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PRICE LIST #17 / 2024



17



WORKHOLDING

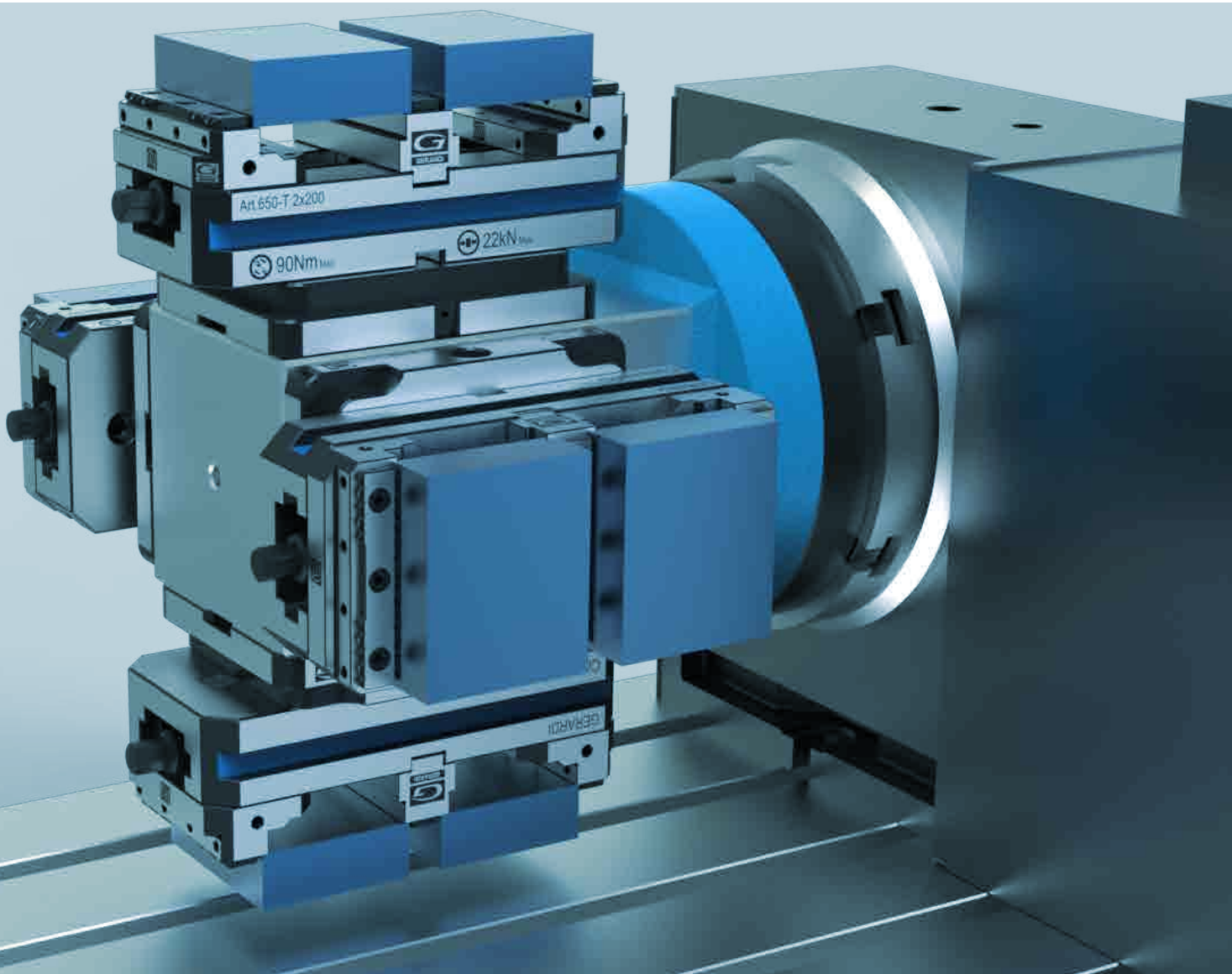
PRICE LIST / JANUARY 2024

FIRST EDITION

CompactGrip

Questa gamma di morse permette di intervenire su 5 facce del particolare in lavorazione con riferimenti precisi in spazi contenuti

This series of vises allow machining operations on the 5 workpieces sides with perfect alignment in a space saving design



STD / Standard FLEX

XL / XL FLEX

MODULAR ELEMENTS

ACCESSORIES & SPARE PARTS

FMS

MULTIFLEX

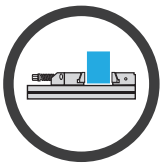
MULTITASKING

TOMBSTONES

ZERO POINT

MAGNETIC PLATES

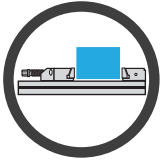
MODULAR CLAMPING TOOLS



STANDARD & STANDARD FLEX

Morse modulari e cubi-morsa - Modular vises and vise-towers series
OK Morse ad altissima precisione - Highest precision vise series

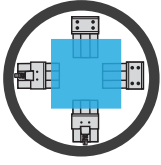
1



XL & XL FLEX

Morse modulari con basi extra lunghe
Modular vises with extra-long bases

2



ELEMENTI MODULARI - MODULAR ELEMENTS

Elementi Modulari serie Standard & Standardflex per una versatilità estrema!
Standard & StandardFLEX modular elements series for an extreme versatility!

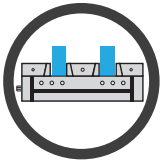
3



RICAMBI e ACCESSORI - SPARE PARTS & ACCESSORIES

Ricambi e accessori per morse Standard, StandardFLEX e XL
Spare parts and accessories for Standard, StandardFLEX and XL

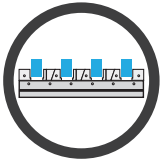
4



FMS

Un sistema modulare versatile per serraggi singoli, doppi ed autocentranti
A versatile modular system for single, double and self-centering clamping

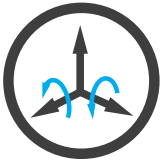
5



MULTIFLEX

Per serraggi multipli fino a 19 particolari di varie dimensioni
For flexible clamping of multiple workpieces of various sizes

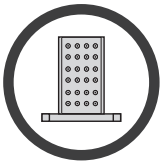
6



MULTITASKING

Morse autocentranti e sistemi di serraggio per applicazioni avanzate su centri a 5 assi
Vises for advanced applications on 5 axis machining centres

7



PORTAPEZZI MODULARI - MODULAR TOMBSTONES

Cubi, spalle, squadre, piastre, pallets, per centri di lavoro orizzontali
4 sides and 2 sides cubes, angles, plates, machine pallets, for horizontal machining centres

8



ZERO POINT

Il nuovo sistema di posizionamento e ancoraggio istantaneo
The new immediate positioning and clamping system

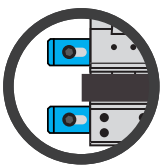
9



PIANI MAGNETICI - MAGNETIC PLATES

Un sistema elettropermanente ideale per per operazioni di fresatura
An electro-permanent system ideal for milling operations

10



ELEMENTI MODULARI DI STAFFAGGIO MODULAR CLAMPING TOOLS

11

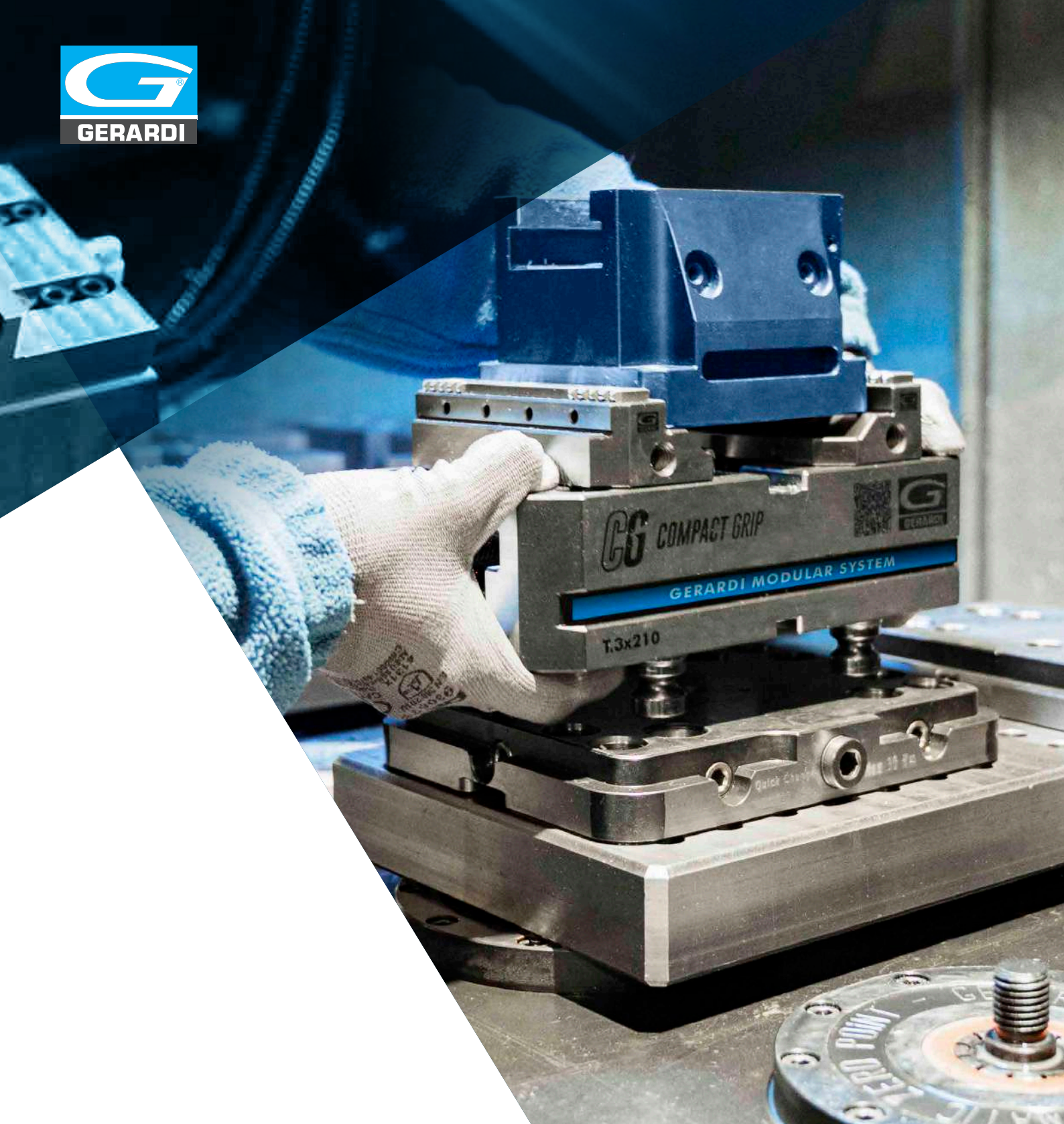


Morse ed attrezzature per il serraggio ed il posizionamento di particolari da lavorare

Vises and fixtures for workpieces positioning and clamping



What does workholding mean?



La vasta gamma di morse modulari e portapezzi che consente di rispondere ad ogni esigenza senza ricorrere allo speciale ed il rapporto qualità-prezzo dei prodotti unitamente ai 5 anni di garanzia, sono il vero punto di forza dell'azienda.

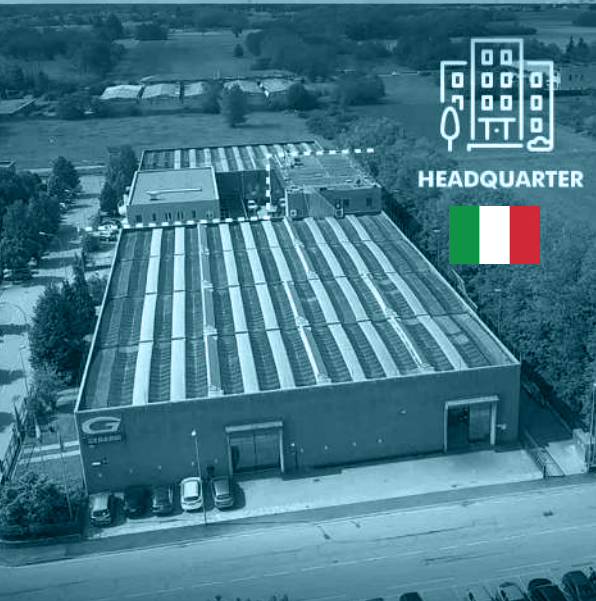
Gerardi è uno dei pochissimi costruttori in grado di realizzare qualsiasi tipo di attrezzature per presa pezzo e posizionamento chiavi in mano. I prodotti Gerardi sono sempre realizzati con i materiali più idonei e pregiati, le nostre morse sono in acciaio temprato e rettificato con durezza fino a 60Hrc e tutti i portapezzi per centri di lavoro orizzontali sono sempre in fusione monoblocco di ghisa stabilizzata a garanzia di maggior stabilità in fresatura e durata del prodotto.

Gerardi offers a widest range of precision modular vises, tombstones, zero point and magnetic plates suitable for any metalworking need unbeatable price-quality ratio of our range of products together with a 5-years warranty are our points of strength.

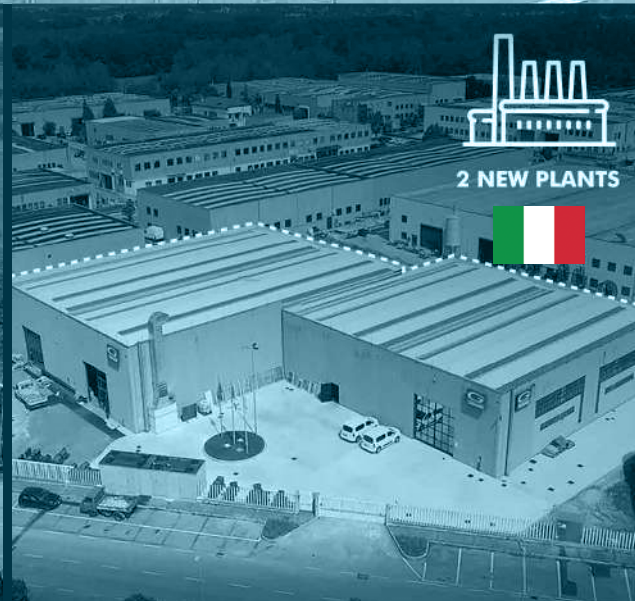
Gerardi is one of the very few manufacturers able to design and manufacture any equipment for workholding and turnkey positioning and clamping. Gerardi's products are always made of the most suitable and valuable materials. Our vises are made of hardened ground steel with hardness up to 60Hrc and the range of tombstones for horizontal machining centres are always built in a one-solid cast iron block, which is a further guarantee of stability during milling operation and of unlimited lifetime.



**WE DESIGN
MANUFACTURE
& DISTRIBUTE
WORLDWIDE**

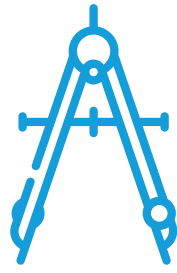


HEADQUARTER



2 NEW PLANTS

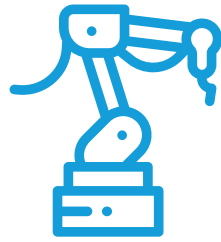




DESIGNING

Progettiamo e sviluppiamo soluzioni innovative per il serraggio e a lavorazione di particolari in acciaio, ghisa ed alluminio come ad esempio morse di precisione, teste angolari e portautensili motorizzati.

We design and develop innovative solutions for clamping, workholding and machining of workpieces in steel, cast iron and aluminum such as precision vises, angle heads and driven tools.



MANUFACTURING

I nostri centri di lavoro, gli utensili, i sistemi CAD/CAM e un team altamente qualificato contribuiscono alla realizzazione di componenti anche molto complessi e assicurano risultati di lavorazione eccellenti.

Machines, tools, CAD/CAM and a great Team contribute to the realization of even very complex components and ensure excellent machining results.



WORLDWIDE DISTRIBUTION

La distribuzione dei nostri prodotti è supportata da una rete di vendita molto estesa che comprende distributori e agenti provenienti da tutte le parti del mondo.

The distribution of our products are supported by an extensive network of wholesalers and agents that promote and are committed to sell all over the world.



CUSTOMER CARE

I nostri punti di forza sono la vasta disponibilità di ricambi pronti a magazzino, il nostro servizio di manutenzione e riparazione e l'assistenza tecnica telefonica gratuita pre- e post-vendita.

An extraordinary point of our strength is our huge spare parts stock, maintenance and repair service with free phone assistance of our technical Team before & after sales.



CHINESE PLANT



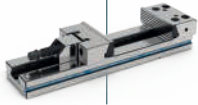
ITALIAN DESIGNING



WORLDWIDE DISTRIBUTION

77

1971



La Gerardi S.p.A. è stata fondata da Ivano Gerardi Sr. nel 1971 come terzista per la rettifica ed è situata vicino a Milano. Nel 1972, in seguito alla crisi petrolifera, è stata concepita e sviluppata la prima morsa modulare di precisione.

Gerardi S.p.A. Co. was established by Ivano Gerardi Sr. in 1971 as grinding subcontractor. The company is located near Milan, Italy. In 1972 due to the oil crises the first precision modular vise has been conceived and designed.

88

1980



Negli anni '80 l'azienda è cresciuta diventando la maggior produttrice di morse modulari di precisione della nazione e una delle aziende leader del mercato della Comunità Europea e la qualità dei suoi prodotti è stata riconosciuta in tutto il mondo. Nel frattempo l'azienda ha continuato a sviluppare la sua tecnologia di rettifica con un concetto totalmente nuovo alla base del progetto. Gerardi S.p.A. ha inoltre lanciato una vasta gamma di Teste Angolari per centri di lavoro e utensili tradizionali e Portautensili Motorizzati per torni CNC. Attraverso una campagna di marketing globale, l'azienda ha portato il volume della produzione da pochi pezzi a migliaia di prodotti venduti e la sua tecnologia è conosciuta e venduta in tutto il mondo.

In the Eighties the company grew to become the largest Italian vise manufacturer and one of the leaders in the European Common Market and the quality of its products got worldwide renown. Meanwhile the company developed its own Grinding machines technology with a totally new concept at the base of the project. Moreover Gerardi S.p.A. launched a wide range of Angle Heads for traditional machine tools and machining centers and Driven Tools for C.N.C. lathes. With worldwide marketing efforts, the company has brought the production from few pieces to thousands with products and technologies known and sold all over the world.

99

1990



Nello stesso periodo l'azienda ha fondato una joint-venture in Cina per la produzione di particolari e di alcuni tipi di morse in collaborazione con l'industria aerospaziale cinese AVIC. Grazie ai consistenti investimenti la nuova azienda è oggi controllata da Gerardi e sta raggiungendo la stessa posizione di eccellenza ottenuta nel mercato europeo, sia nel mercato asiatico che in Nord e Sud America.

In the same period the company established a joint-venture in China for the manufacturing of parts and types of vises together with the Chinese aerospace industry AVIC. Thanks to major investments the new company is today controlled by Gerardi and is achieving the same excellent leadership results in Asia and North & South America as those accomplished in Europe.

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2000

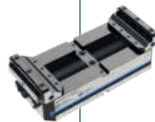


Con importanti investimenti e un impegno finanziario consistente, è stata costituita una filiale negli Stati Uniti, vicino a Chicago, e nel 2007 è stata aperta una nuova succursale a Stoccarda, in Germania, con lo scopo di servire al meglio i mercati locali.

After the set up of a US subsidiary Co. near Chicago, a new German branch has been established in Stuttgart / Germany in 2007 in order to better penetrate and service the local markets. Of course this meant a huge financial effort and investments.

12

2012



Gerardi S.p.A. ha aperto un nuovo stabilimento produttivo per implementare la produzione di Teste angolari, Portautensili motorizzati e Portapezzi e piastre personalizzati. E' stata inoltre aperta una nuova succursale in India per la produzione di attrezzature per il mercato indiano.

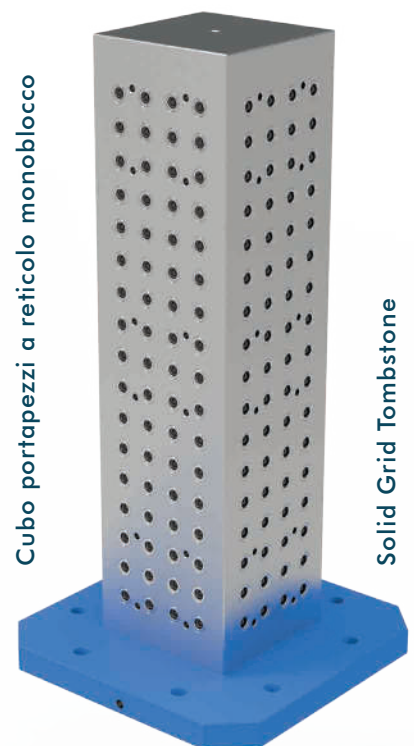
Gerardi set up a new manufacturing plant to increase the Angle Heads, Driven Tools, tailor made Tombstones and plates production and a new company in INDIA for the manufacturing of fixtures for the Indian market.

20

2020

Installazione di un nuovo impianto logisitico per incrementare l'efficienza della distribuzione e delle spedizioni.

Set Up of a new logistic plant to improve efficiency in shipments and distribution.



Cubo portapezzi a reticolo monoblocco

Solid Grid Tombstone

24
2024

Lo staff della Gerardi conta oggi oltre 200 persone con un'età media inferiore ai 40 anni. Le posizioni manageriali e di rilievo sono occupate da personale che è maturato all'interno dell'azienda grazie a formazione interna ed esperienza. La percentuale di esportazioni è oggi più del 70% della nostra produzione totale ed interessa più di 60 paesi in tutto il mondo. Investiamo inoltre il 10% del fatturato in ricerca tecnologica per la progettazione e realizzazione di nuovi prodotti. Gli investimenti complessivi dell'azienda superano i 20 milioni di Euro.

The Gerardi S.p.A. Co. staff now numbers over 200 employees with an average age of under 40. In the company all the top roles and manager positions were acquired through internal training and experience. Our total export is today more 70% of our total production in more than 60 countries around the world and we invest about 10% of our total turnover in advanced technological research for designing & manufacturing new products. The overall investments of the company exceed € 20 Million.

Il mercato è oggi molto esigente: la competitività è data dalla continua capacità di offrire velocemente nuovi prodotti che richiedono costantemente nuovi aggiornamenti e miglioramenti. La produzione è impegnata a seguire questa continua evoluzione offrendo prodotti di alta qualità in breve tempo e ad un prezzo competitivo.

The market is nowadays highly demanding: competitiveness is played on the continuous ability to offer new products that quickly and constantly require new updated and upgraded versions. Production is forced to follow these continuous developments by supplying high quality products in a short time and with competitive prices.

Il nostro obiettivo è di fornire soluzioni che permettano di aumentare la produttività e l'efficienza garantendo un rapporto qualità prezzo imbattibile.

Our Goal is to supply solutions able to increase workshops productivity and efficiency with an unbeatable price / quality ratio

Photo: Ivano Gerardi Jr. (CEO)
and Ivano Gerardi Sr.
(Founder of Gerardi S.p.A)



WHAT'S
NEXT

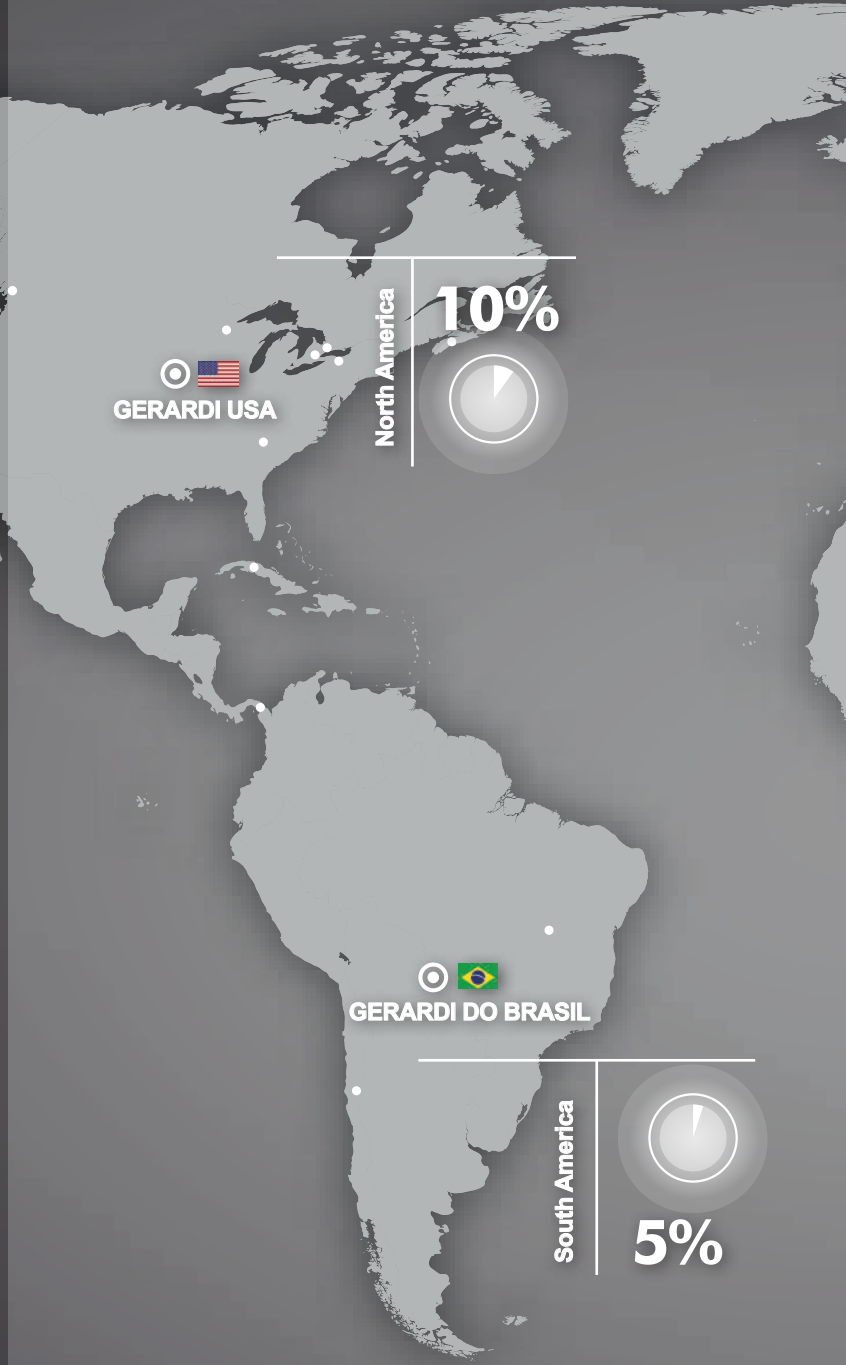
OUR
GOAL



Main Clients



WHERE WE ARE



Headquarter

Branches

Distributors

More than 200

200 worldwide



Headquarter & 3 plants in Italy
80 employees





25%

West Europe



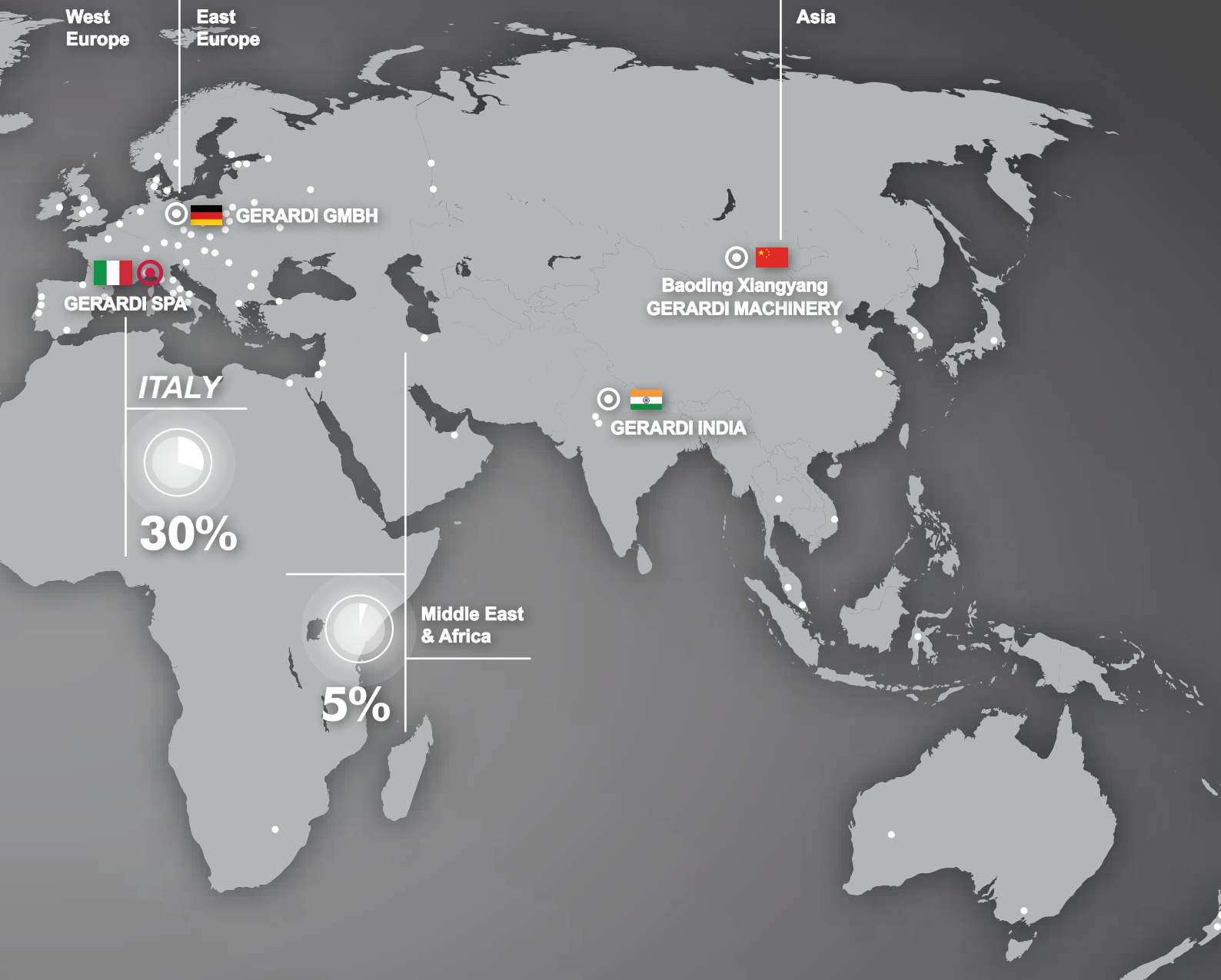
15%

East Europe



10%

Asia



GERARDI GMBH

GERARDI SPA

Baoding Xiangyang
GERARDI MACHINERY

GERARDI INDIA

ITALY



30%

Middle East & Africa



5%

Progettazione, produzione e distribuzione in tutto il mondo di attrezzature per bloccaggio pezzi e attrezzature per macchine utensili.

Il supporto e la protezione dei nostri agenti, rappresentanti e distributori sono il nostro valore e orgoglio! Fin dall'inizio abbiamo sviluppato la distribuzione dei nostri prodotti costruendo una forte partnership con la nostra rete mondiale di distributori, che è la base per un lavoro continuo e una profonda penetrazione nel mercato.

Designing, manufacturing and worldwide distribution of workholding & tooling equipment fixtures for machine tools.

Support and protection of our agents, reps and distributors are our value & pride! Since the very beginning we've been developing our products distribution by building up a strong partnership with our worldwide distributors network, which is the base for continuous work and a deep market penetration.



1 plant in China
120 employees



1 Commercial branch
Chicago, U.S.A



1 Commercial branch
near Stuttgart, Germany



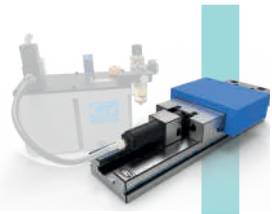
What's next ?



1 Manufacturing plant in India



1 Commercial Branch in Brazil



Art.1E
Art.1ZE
Art.12E
Art.14E
Art.15E
Art.1AE
Art.1AZE

Morse Standard Matic
Standard Matic Vises

Pag - Page from 1.8 to 1.23



Art.62
Art.81P

Piastre d'interfaccia
per sistema Zero Point
Zero Point interfaced plate

Pag - Page 1.24

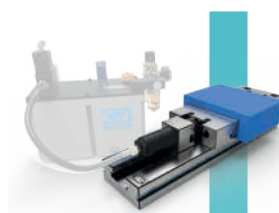
40

Accessories
& Spare Parts

01-02

XL & XL FLEX vises

Std & StandardFLEX
Vises



Art.1E
Art.1F

Morse StandardMatic
StandardMatic Vises

Pag - Page from 4.40 to 4.43



Art.242K
Art.243K
Art.248K
Art.249K
Art.246K
Art.247K

Piastre ganasce con gradino
integrale e inserti grip
Integral step jaw plates with
grip inserts

Pag - Page 4.16 - 4.17



Art.230SLD

Piastre ganasce a pettine
quadrettate scaricate
Discharged serrated
comb jaw plates

Pag - Page 4.21



Art.230SLE

Piastre ganasce a pettine
con gradino scaricate
Discharged step
comb jaw plates

Pag - Page 4.21



Art.230K

Piastre ganasce a pettine
con inserti grip
Comb jaw plates
with grip inserts

Pag - Page 4.21

Main
inside news

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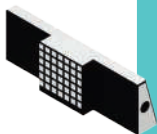
Multiflex vises



Art. 547K

Piastre piane con gradino integrale e inserti grip
Straight integral step jaw plates with grip inserts

Pag - Page 5.58



Art. 806SLD

Piastre ganasce a pettine quadrettate scaricate
Discharged serrated comb jaw plates

Pag - Page 5.23



Art. 806SLE

Piastre ganasce a pettine con gradino scaricate
Discharged step comb jaw plates

Pag - Page 5.23



Art. 806K

Piastre ganasce a pettine con gradino integrale e inserti grip
Integral step comb jaw plates with grip inserts

Pag - Page 5.23



Art. 62
Art. 81P

Piastre d'interfaccia per sistema Zero Point
Zero Point interfaced plates

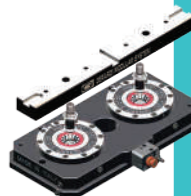
Pag - Page 5.50



Art. 723A
Art. 723B
Art. 723C

Ganasce per serraggio a cuneo discendente
Jaws wedge clamp

Pag - Page 6.40



Art. 62
Art. 81P

Piastre d'interfaccia Zero Point
Zero Point interfaced plates

Pag - Page 6.30

Devi staffare la tua morsa? Do you need to fix your vise?

**OGNI CAPITOLO È PROVISTO DI UNA PAGINA DEDICATA
ALLO STAFFAGGIO IN MACCHINA DELLA MORSA**





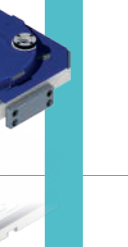
**EACH CHAPTER HAS A SPECIFIC PAGE TO SHOW THE
BEST WAY TO FIX YOUR VISE ON THE MACHINE TABLE**

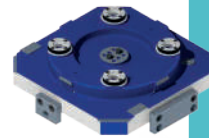
50

FMS Vises

07

Multitasking Vises

	Morse MaxiGrip Intermediated jaw
	Art.650X Ganascia intermedia Intermediated jaw
	Pag - Page 7.21 - 7.27
	Art.650V Art.650Y Art.650U - G01 - G02 - G11
	Inserti per ganascia intermedia Intermediated jaw inserts
	Pag - Page 7.27
	Art.690DTF Utensile fresa per inserti Coda di Rondine Milling tool for Dove Tail inserts
	Pag - Page 7.29 - 7.51 - 7.53
	Art.297X Tassello a gioco Zero Zero plug play
	Pag - Page 7.29
	Pag - Page 7.17 - 7.31
	Art.643H Supporti piramidali Pyramidal supports
	Pag - Page 7.37
	Art.670CP Art.670AP Piastre d'interfaccia per GripMatic Interface plates for GripMatic vises
	Pag - Page 7.48



Art.85
Pallet Kiwa
Kiwa pallet

Pag - Page 8.41



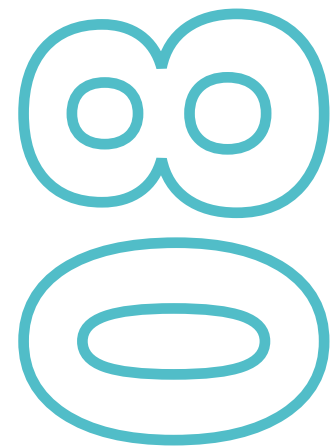
Art.62K
Kit Piastre d'interfaccia tonde per tavole rotanti
Round Interfaced plates kit for rotary table

Pag - Page 8.27 - 8.31 - 8.33



Art.53A1
Art.53B1
Art.53C1
Art.55A1
Art.53B1
Art.53C1
Cubi e spalle leggeri
Light cubes & two sides tombstones

Pag - Page 8.10 - 8.11



Tombstones & Pallets

Devi staffare la tua morsa?
Do you need to fix your vise?

**OGNI CAPITOLO È PROVVISORIO DI UNA PAGINA DEDICATA
ALLO STAFFAGGIO IN MACCHINA DELLA MORSA**

**EACH CHAPTER HAS A SPECIFIC PAGE TO SHOW THE
BEST WAY TO FIX YOUR VISE ON THE MACHINE TABLE**

09

Zero Point System



Art.665T

Zero Point Doppio
Double Zero Point

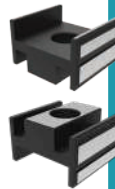
Pag - Page 9.36



Art.63
Art.64
Type 3

Rialzi per Zero Point
Zero Point Risers

Pag - Page 9.11 - 9.21



Art.297X

Tassello a gioco Zero per Zero Point
Zero play nut for Zero Point

Pag - Page 9.45



Art.ESTR01

Estrattore per spina di
riferimento Zero Point
Dowel extractor for
Zero Point reference pin

Pag - Page 9.45

CERTIFICATO

DI GARANZIA 



CERTIFICATO DI GARANZIA GERARDI GARANTISCE I MATERIALI DELLA MIGLIOR QUALITÀ

La **GERARDI SPA** garantisce, per un periodo di **5 ANNI**, la buona qualità dei materiali impiegati e la perfetta costruzione su tutta la gamma di morse modulari e cubi portapezzi ad azionamento manuale. Per quanto riguarda i sistemi pneumatici, idraulici e magnetici e teste angolari la garanzia si estende per **12 MESI** mentre per portautensili motorizzati a rotazione meccanica la garanzia si estende per **24 MESI**. Per effetto di questa garanzia, la **GERARDI SPA** si impegna a provvedere alla riparazione o sostituzione di quelle parti che risultassero difettose per impiego di cattivo materiale o per vizio di costruzione, purchè dette parti vengano consegnate in ogni caso in porto franco al suo stabilimento. La garanzia non si estende a guasti o rotture derivati da imperizia, trascuratezza o cattivo uso del prodotto da parte dell'acquirente e cessa qualora i pagamenti non vengano effettuati dal compratore alle scadenze convenute o quando il prodotto venga modificato o riparato dall'utilizzatore. Tutti i prodotti Gerardi sono marchiati e riconoscibili a vista. Su prodotti di dubbia provenienza e non marchiati non sarà riconosciuta nessuna garanzia.

The
PREMIUM
★★★★★
CHOICE

FIRMA



FIRMA

CERTIFICATE

OF GUARANTEE 



GERARDI GUARANTEE CERTIFICATE OF THE BEST QUALITY OF MATERIAL EMPLOYED

GERARDI SPA guarantees for a period of **5 YEARS** the good quality of materials employed and the perfect construction of the complete range of modular vises and tombstones with manual control. As far as pneumatic, hydraulic and magnetic items and angular heads the warranty extends for **12 MONTHS** while for driven tools with mechanical running the warranty extends for **24 MONTHS**. For this warranty **GERARDI SPA** commits herself to repair or substitute any part which shall result defected by workmanship or for the use of bad quality material only on condition that such parts shall be delivered free port to our factory. This warranty does not extend to breakages arising from unskilfulness or carelessness and negligent use of the items from the buyer side and terminate in case the payments are not made as agreed and when the item shall be modified or repaired by the user. Each Gerardi item has been branded and it is easy recognizable at first sight. On items of uncertain origin and not marked no warranty will be allowed.

The
PREMIUM
★★★★★
CHOICE

SIGNATURE



SIGNATURE

ATTENZIONE - ATTENTION

Le caratteristiche tecniche indicate in questo catalogo non sono impegnative e possono essere modificate senza preavviso

The technical data contained herein are given for information only and are subject to change without notice

CONDIZIONI GENERALI DI VENDITA

1- ORDINAZIONI:

L'importo minimo delle ordinazioni è fissato in Euro 150,00 netto (IVA esclusa). Solo su specifica richiesta del cliente importi inferiori saranno evasi con un addebito fisso di 10,00 euro per spese di gestione.

2- PREZZI:

I prezzi indicati nel seguente listino sono espressi in Euro (IVA esclusa) e sono suscettibili di modifiche senza preavviso. Consigliamo pertanto di indicare sempre nei Vostri ordini il riferimento del listino in Vostre mani (N° / Anno). I listini aggiornati in tempo reale sono disponibili on line www.gerardi.it come anche eventuali Errata Corrige.

Il Costruttore declina inoltre ogni responsabilità per eventuali errori di stampa contenuti in questa pubblicazione

3- PAGAMENTO:

I pagamenti devono essere effettuati nei termini e alle condizioni concordate. In caso di ritardato pagamento, verranno addebitate le spese e gli interessi di mora al tasso bancario corrente maggiorato di due punti.

4- MODIFICHE:

Modifiche di ogni tipo o errori di stampa dei nostri cataloghi o listini non danno diritto a reclami. Le rappresentazioni grafiche non sono impegnative.

5- RESA:

I prezzi si intendono per merce resa franco ns. magazzino in Lonate Pozzolo (VA).

6- IMBALLO:

L'imballo verrà addebitato al costo in caso fosse necessario.

7- TRASPORTO:

La merce viaggia sempre a rischio e pericolo del committente.

8- TERMINI DI CONSEGNA:

La maggior parte degli ordini viene evaso entro le 48 ore successive al ricevimento degli stessi (Il nostro personale addetto avviserà per la conferma del ritiro). I termini di consegna per gli articoli non disponibili in stock sono puramente indicativi e pertanto non vincolanti. Non assumiamo responsabilità alcuna per eventuali ritardi di consegna causati da motivi di forza maggiore.

9- VALIDITA' OFFERTE:

Le offerte sono valide trenta giorni dalla data della loro emissione.

10- RECLAMI:

Ogni particolare ed ogni spedizione è accuratamente controllata, eventuali reclami dovranno pervenire in forma scritta, entro otto giorni dal ricevimento del materiale.

11- GARANZIE:

La precisione, la qualità e le caratteristiche tecniche dei nostri prodotti sono garantite e gli articoli che saranno riconosciuti difettosi, verranno sostituiti gratuitamente, senza che ciò possa dar luogo ad alcun addebito a nostro carico per spese o danni in genere.

Sono esclusi dalla nostra garanzia i pezzi manomessi, modificati, danneggiati per normale logorio, o per uso scorretto.

7- LIABILITY:

Goods supplied will be the responsibility of the buyer during transportation

8- DELIVERY:

A) Standard Products:

All incoming Purchase Orders will be acknowledged within 24 hours of receipt. Delivery dates will be confirmed and wherever possible, goods will be shipped within the following working day.

For goods not available from stock, our employees will provide delivery information based on that available from within the Gerardi system. We do not accept any responsibility for delays in delivery due to circumstances that are beyond our control. Partial shipments for Purchase Orders with multiple units can be made. Cancellation of Purchase Orders cannot be made without agreement with Gerardi Spa, requests to cancel a Purchase Order must be made in writing and agreed and approved by Gerardi Spa.

B) Non-Standard or Special Products:

All incoming Purchase Orders for Non-Standard or Special Products will be acknowledged within 48 hours of receipt and delivery dates will be confirmed as soon as practically possible.

Cancellation of Purchase Orders cannot be made without agreement with Gerardi Spa, requests to cancel a Purchase Order for Non-Standard Products must be made in writing and agreed and approved by Gerardi Spa. Any costs incurred at the time of cancellation will be to the customers account.

9- OFFER VALIDITY:

Any complaint regarding shipment of goods from Gerardi S.p.A, must be made in writing within 8 days of receipt of the said goods.

10- COMPLAINT:

Any item and component and each shipment is checked carefully and any possible complaints must be written, within 8 days from goods receiving.

11- GUARANTEES:

All Gerardi spa products carry a 1 Year guarantee. This guarantee covers the performance, accuracy, quality and technical features stated in our catalog. Non-conforming products will be exchanged without charge

12- RESI:

Al fine di regolamentare le richieste di RESO PER ERRATA ORDINAZIONE da parte della Clientela, siamo costretti a precisare alcune regole, alle quali preghiamo scrupolosamente di volerVi attenere:

A) Le richieste di reso dovranno pervenire entro 8 giorni dalla data di ricezione della merce.

B) Le richieste, necessariamente scritte, devono attendere la risposta della Gerardi S.p.A. che si riserva la facoltà di accettarle.

C) Nella bolla di reso devono essere riportati gli estremi della fattura o bolla di consegna.

D) Il materiale viaggerà a spese del cliente.

E) Le confezioni dovranno essere integre ed originali.

F) nell'eseguire la nota di accredito verranno trattenuti 15,00 Euro ogni 150,00 Euro del valore del reso stesso per spese di ricolloado e nuovo stoccaggio.

13-GIURISDIZIONE:

Il foro competente in via esclusiva per la risoluzione di qualsivoglia controversia in relazione alla interpretazione e/o esecuzione delle presenti condizioni di vendita sarà quello di Busto Arsizio (VA).

12-PENALI

In caso di recesso da parte del cliente, l'acconto versato per l'ordine o per la fornitura di merce verrà trattenuto come penale.

or expense for any failure caused by defective work or components, supplied or carried out by Gerardi Spa. Any items or components that have been modified, damaged or suffered fair wear and tear, are excluded from this guarantee.

12- RETURNS POLICY:

The following procedure must be followed when returning goods, regardless of the reason for the return.

A). gerardi spa must receive written notification regarding any goods that are being returned, this notification must be received within 8 days of receipt of the goods. this notification must be sent in writing to gerardi spa.

B). goods should not be returned until gerardi spa has authorized the return and provided a delivery address to which the goods should be sent.

C). when returning goods, details of the invoice and any other relevant information must accompany the goods.

D). goods being returned must be returned free of charge.

E). goods should be returned in the original packaging and be without damage or wear.

F). a total of 10% of the invoiced value of the goods will be deducted from any credit note which gerardi issues, this charge is to cover administration and re-stocking charges only.

13-JURISDICTION:

Purchasers agree to submit any claim or discussion related to these Standard Conditions of Sale to the relevant and competent Law Courts that will be in Busto Arsizio (VA) Italy whose decision will be final.

12-PENALTIES

In the event of customer's withdrawal, the down payment for the order or supply of goods will be held as penalty.

GENERAL SALES CONDITIONS

1- PURCHASE ORDERS:

The minimum order value is Euro 150,00 net. Customers may request a lower minimum order amount on specific items that will be delivered with a fixed charge of 20,00 euro to cover administration expenses.

2- PRICES:

Prices shown on Gerardi Price lists are in Euro and are subject to change without prior notice. When submitting Purchase Orders, please show the Price List reference (Number and Year). Up-dated Price lists are available on-line at www.gerardispa.com The Manufacturer declines all responsibility for any pricing errors contained in these publications.

3- PAYMENT and TERMS:

Standard Payment Terms are strictly Net 30 Days. Should alternative Payment Terms be agreed outside of our Standard Payment Terms, must be agreed in advance of order placement. In case of payment delays, expenses and interest will be charged.

4- CHANGES:

Gerardi S.p.A should be notified immediately if any changes or mistakes are identified within our catalogues or our Price Lists. These changes or mistakes should be notified immediately, but will not entitle a customer to the right to submit claims or complaints. Graphic representations in our catalogues and any marketing materials provide an indicative representation of the products and are not contractually binding. Should a customer require additional information, this should be requested from Gerardi S.p.A

5- FREIGHT AND DUTY:

The Prices quoted in our catalogues and Price lists are Ex-Works, Lonate, Pozzolo, Italy. Freight and Duty will be charged at the applicable rates valid at the time of delivery.

6- PACKING:

Were necessary, any special packaging will be charged at cost

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VALIGETTE DI CAMPIONATURA - SAMPLE KIT CASE STANDARD

Art.1 T.1
(1 pezzo - 1 pezzo)



Art. 981

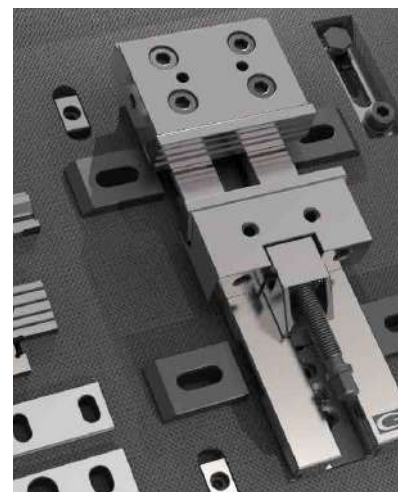
Valigetta di campionatura morsa Art.1 T.1
Sample kit case Art.1 T.1 vise

Cod. 0.98.10000

PRICE LIST € ~~2.052~~

SPECIAL PRICE € **1.100**

All'Interno - Inside:					
	Art.132		Art.313		Art.298
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	Art.217		Art.297	-	-



STANDARDFLEX

Art.1A T.1
(1 pezzo - 1 pezzo)



Art. 985

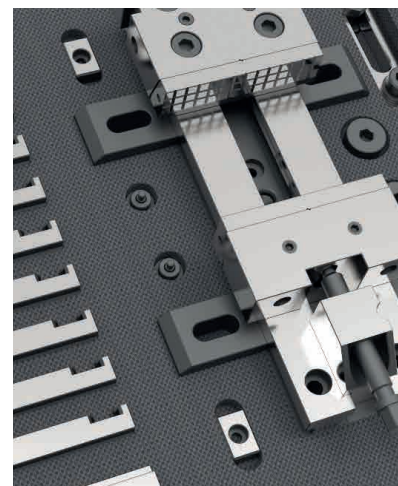
Valigetta di campionatura morsa Art.1A T.1
Sample kit case Art.1A T.1 vise

Cod. 0.98.5000

PRICE LIST € ~~2.081~~

SPECIAL PRICE € **1.100**

All'Interno - Inside:					
	Art.138		Art.230F		Art.271
	Art.212		Art.230G		Art.297
	Art.230B		Art.230H		Art.298
	Art.230C		Art.230M		Art.370
	Art.230D		Art.313		Art.375
	Art.230E		Art.314		Art.376



FMS

Art.860 T.1x300
(1 pezzo - 1 pezzo)



Art. 983

Valigetta di campionatura morsa Art.860 T.1x300
Sample kit case Art.860 T.1x300 vise

Cod. 0.98.30000

PRICE LIST € ~~3.467~~

SPECIAL PRICE € **1.700**

All'Interno - Inside:					
	Art.810L		Art.806B		Art.297 16/18
	Art.807		Art.806C		Art.850H
	Art.810X		Art.806D		Art.370 T1 Std
	Art.814		Art.806E		Art.375 CH12
	Art.810J		Art.806F	-	-
	Art.814		Art.298	-	-



VALIGETTE DI CAMPIONATURA - SAMPLE KIT CASE MULTIFLEX



Art.600 T.1x400
(1 pezzo - 1 piece)

Art. 984

Valigetta di campionatura morsa Art.600 T.1x400
Sample kit case Art.600 T.1x400 vise

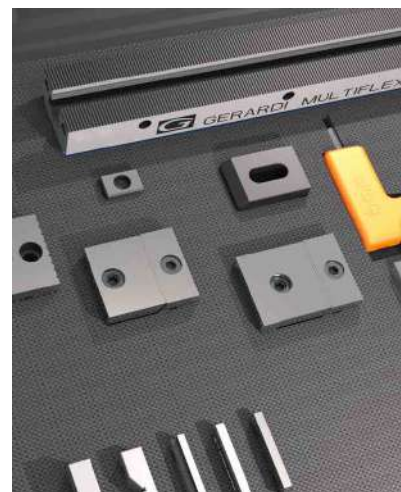
Cod. 0.98.40000

PRICE LIST € ~~1.623~~

SPECIAL PRICE € **800**

All'Interno - Inside:

	Art.604		Art.610B		Art.297
	Art.605		Art.610C		Art.298
	Art.609		Art.610D		Art.370
	Art.613		Art.610E		Art.375
	Art.615		Art.610F		Art.376
	Art.605L		Art.610T	-	-



COMPACT GRIP

Art.650
(1 pezzo - 1 piece)

Art.660
(1 pezzo - 1 piece)



Art. 986

Valigetta di campionatura morsa Art.650 - Art.660 T.2x160
Sample kit case Art.650 - Art.660 T.2x160 vise

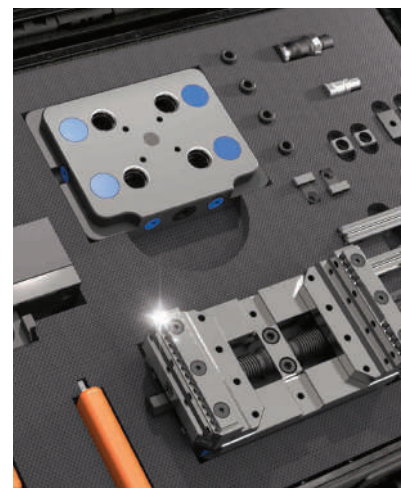
Cod. 0.98.60000

PRICE LIST € ~~2.854~~

SPECIAL PRICE € **1.350**

All'Interno - Inside:

	Art.11A		Art.650G G11		Art.297
	Art.650X		Art.650G G02		Art.370/EM
	Art.950D		Art.650G G01		Art.375
	Art.950B		Art.650R		Art.376 CH3/CH6
	Art.660B		Art.650S		Art.650G
	Art.79		Art.298/CGR		Art.650GZ



ZERO POINT & MULTITASKING

Art.640
(1 pezzo - 1 piece)

Art.665
(1 pezzo - 1 piece)

Art.81P (1 pezzo - 1 piece)



Art. 982

Valigetta di campionatura morsa Art.640 - Art.665 - Art.81P
Sample kit case Art.640 - Art.665 - Art.81P

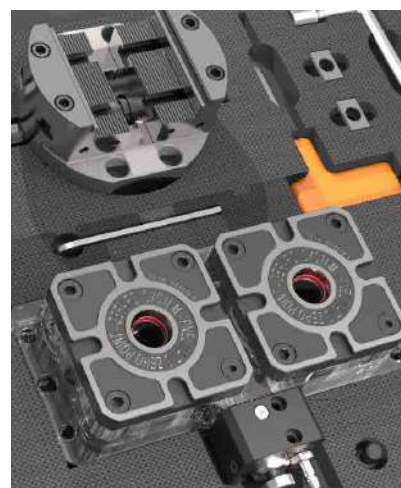
Cod. 0.98.20000

PRICE LIST € ~~4.439~~

SPECIAL PRICE € **2.200**

All'Interno - Inside:

	Art.10A		Art.645T		Art.655J
	Art.11A		Art.645B		Art.640P
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	Art.645E		Art.645F		Art.377
	Art.645F		Art.655D		Art.297
	Art.655D		Art.655E		Art.298



GERARDI DISPLAYS

SCEGLI E CONFIGURA IL TUO DISPLAY GERARDI
CHOOSE AND SET YOUR GERARDI DISPLAY

METALEX DISPLAY

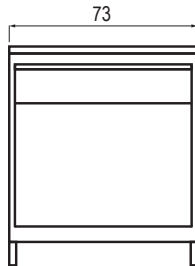
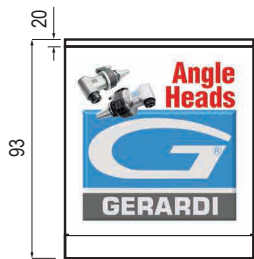
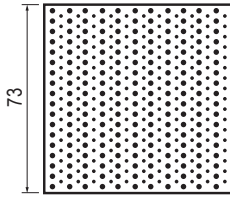
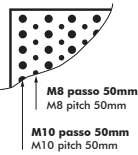
Art. 75M

Espositore in metallo
Metal made display

Cod. 0.ESP.75M0

€ 1.069

Piastra di Alluminio
Alluminum Plate



IDEALE PER PER FIERE
IDEAL FOR EXHIBITIONS

- Piastra a reticolo in alluminio
- 3/4 cassetti su richiesta
- Adesivi personalizzabili su richiesta

- Grid aluminum plate
- 3/4 drawers on request
- Customizable stickers on request

Cyano
Cyan



CONFIGURAZIONI DISPONIBILI - AVAILABLE SETTINGS

Configurazioni variabili - Changeable settings



- 1 Stdflex
- 1 Fms
- 1 Multiflex
- 1 Compact
- 1 Multitasking



- 1 Std
- 1 Fms
- 1 Multiflex
- 1 CompactGrip
- 1 Zero Point



- 1 Std / StandardFLEX
- 1 CompactGrip
- 2 Angle Heads
- 2 Driven tools

WOODEN STD DISPLAY

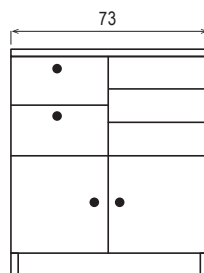
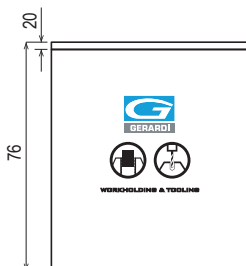
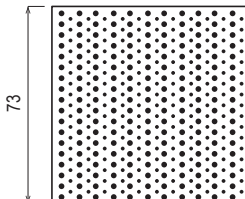
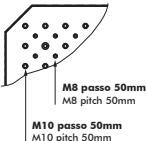
Art. 75W

Espositore in melaminico 73x73
Melaminic display 73x73

Cod. 0.ESP.75W0

€ 900

Piastra di Alluminio
Alluminum Plate



IDEALE PER SHOWROOM
IDEAL FOR SHOWROOM

- Piastra a reticolo in alluminio
- 2 cassetti + 2 vani + 3 ripiani
- Adesivi personalizzabili su richiesta
- Luce LED personalizzabile

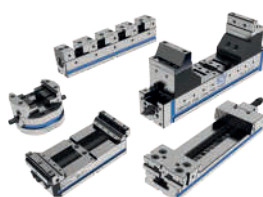
- Grid aluminum plate
- 2 drawers + 2 compartments + 3 shelves
- Customizable stickers on request
- Customizable LED light

Grigio Chiaro
Light Grey

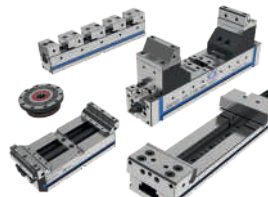


CONFIGURAZIONI DISPONIBILI - AVAILABLE SETTINGS

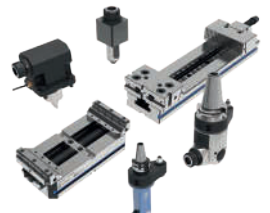
Configurazioni variabili - Changeable settings



- 1 Stdflex
- 1 Fms
- 1 Multiflex
- 1 CompactGrip
- 1 Multitasking



- 1 Std
- 1 Fms
- 1 Multiflex
- 1 CompactGrip
- 1 Zero Point



- 1 Std / StandardFLEX
- 1 CompactGrip
- 1 Angle Head
- 2 Driven tools

GERARDI DISPLAYS

SCEGLI E CONFIGURA IL TUO DISPLAY GERARDI
CHOOSE AND SET YOUR GERARDI DISPLAY

WOODEN PLUS DISPLAY

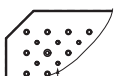
Art. 90W

Espositore in melaminico 90x90
Melaminic display 90x90

Cod. 0.ESP.90W0

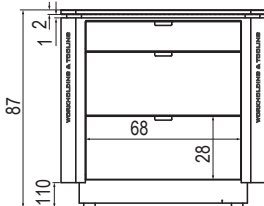
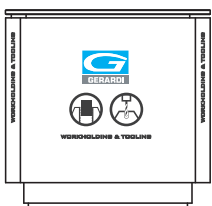
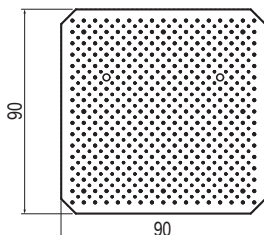
€ 1.349

Piastra di Alluminio Alluminum Plate



M8 passo 50mm
M8 pitch 50mm

M10 passo 50mm
M10 pitch 50mm



**IDEALE PER GRANDI SHOWROOM
IDEAL FOR BIG SHOWROOM**

- Piastra a reticolo in alluminio
- 3/4 cassetti su richiesta
- Adesivi personalizzabili su richiesta
- Luce LED personalizzabile

- Grid aluminum plate
- 3/4 drawers
- Customizable stickers on request
- Customizable LED light

Grigio Chiaro
Light Grey



CONFIGURAZIONI DISPONIBILI - AVAILABLE SETTINGS

Configurazioni variabili - Changeable settings



- 1 Strdflex
- 1 Fms
- 1 Multiflex
- 1 Compact
- 1 Multitasking



- 1 Std
- 1 Fms
- 1 Multiflex
- 1 CompactGrip
- 1 Zero Point



- 1 Std / StandardFLEX
- 1 CompactGrip
- 2 Angle Heads
- 2 Driven tools

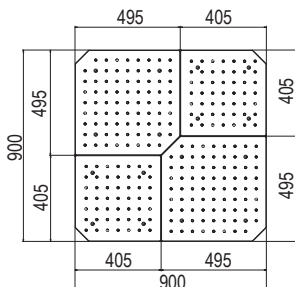
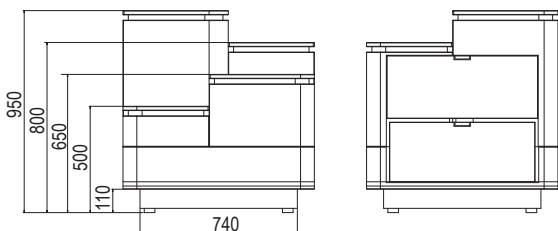
WOODEN STEP DISPLAY

Art. 90WT

Espositore 4 livelli in melaminico 90x90
Melaminic display 90x90 with 4 steps

Cod. 0.ESP.90WT0

€ 4.131



**IDEALE PER GRANDI SHOWROOM
IDEAL FOR BIG SHOWROOM**

- Struttura rinforzata
- Piastra a reticolo in alluminio
- 3 cassetti
- Adesivi personalizzabili su richiesta
- Luce LED personalizzabile

- Reinforced display
- Grid aluminum plates
- 3 drawers
- Customizable stickers on request
- Customizable LED light

Grigio Chiaro
Light grey



CONFIGURAZIONI DISPONIBILI - AVAILABLE SETTINGS

Configurazioni variabili - Changeable settings



- 1 MillTecZero
- 1 Zero Point plate
- 1 CompactGrip vise



- 1 Std
- 1 Fms
- 1 Multiflex
- 1 CompactGrip
- 1 Zero Point



- 1 Grid Cube
- 2 Angle Head
- 2 Driven tools
- 4 Vises



PIÙ SEMPLICE / PIÙ INFO / PIÙ PRODOTTI - EASIER / MORE INFO / MORE PRODUCTS

TROVA IL TUO PRODOTTO IN POCHI CLICK - FIND YOUR PRODUCT IN FEW CLICKS



by category



by code



by description



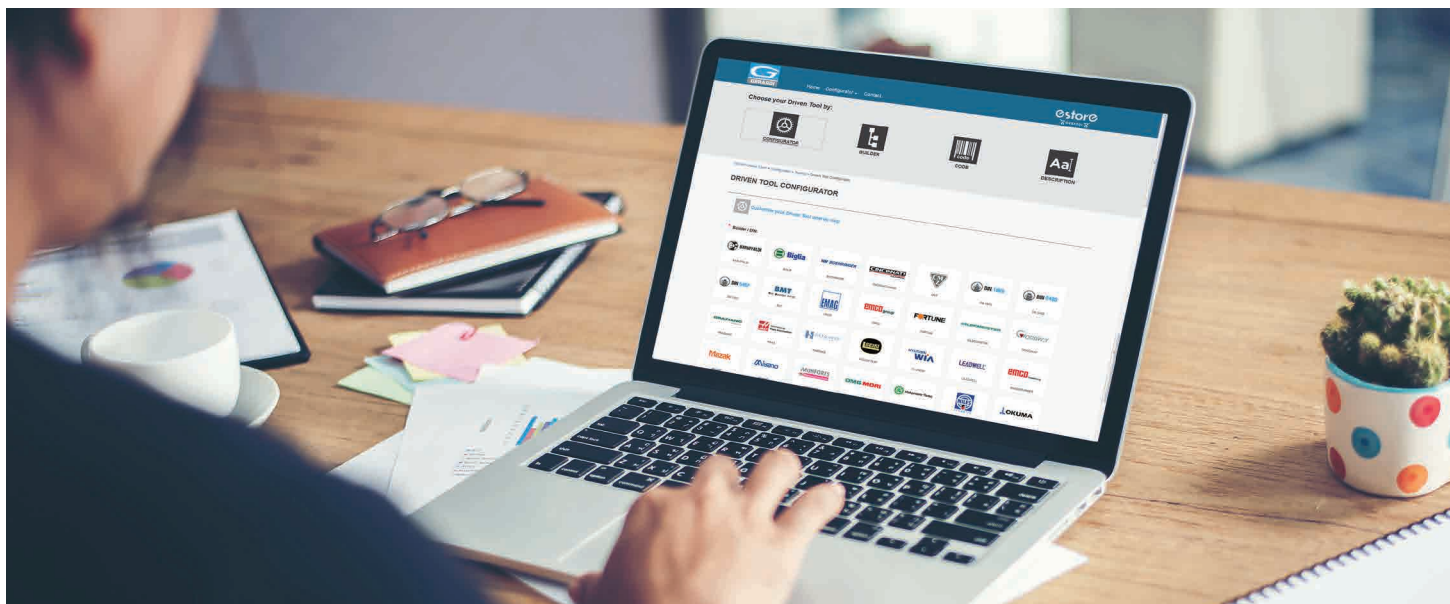
by configurator

Un nuovo modo facile e veloce per ordinare la tua attrezzatura Gerardi

Il nuovo Gerardi estore offre la possibilità di visualizzare e ordinare qualsiasi articolo Gerardi appartenente alle categorie Workholding o Tooling presente sui nostri listini in modo semplice, veloce e completo. Da ora puoi ordinare la morsa, la testa angolare o il motorizzato che ti interessa direttamente on-line dal nostro estore senza costi aggiuntivi.

A new quick and easy way to order your equipment branded Gerardi.

The new Gerardi estore offers the ability to view and order any item available on our Workholding and Tooling catalogues with the easiest, fastest and comprehensive way. You can now order the vise, angle head or driven tool of your interest directly online from our store without any additional cost.



WINDOWS / IOS



ANDROID / IPHONE





IMMERGITI A 360° NEL MONDO GERARDI - 360° EXPERIENCE IN THE GERARDI WORLD



virtual reality



many contents



24h accessible

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Immergiti completamente nel mondo Gerardi e scopri tutti i prodotti Workholding e Tooling presenti nel nostro showroom attraverso il nuovo tour virtuale 360°. Visualizza i molteplici contenuti multimediali e resta sempre aggiornato!

Visit our showroom anytime you want !

Immerse yourself in the Gerardi world and discover all the Workholding and Tooling products displayed in our showroom through our 360° virtual tour. Find out all the multimedia contents and stay up to date!



WINDOWS / IOS



ANDROID / IPHONE





**FEW MINUTES
TO DESCRIBE A
LONG STORY**



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guardare il video aziendale!**

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the Gerardi corporate video!

Gerardi
corporate video

Your updates start now!



Scansiona il QR code ed iscriviti alla nostra newsletter per restare sempre aggiornato!

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Inserisci la tua e-mail!

INVIA

La selezione delle attrezzature più particolari realizzate dal nostro ufficio tecnico raccolta e spedita con una serie di newsletter periodiche.

A selection of the best fixtures designed by our technical department and shown on a proper newsletter series titled "Fixture of the Week"



Scopri l'offerta speciale Gerardi rinnovata ogni 6 mesi e contenente molteplici promozioni su una selezione di nostri prodotti.

Find out the Gerardi Special Offers and the many great new products with an unbeatable price / quality ratio!



Una presentazione delle novità tecniche più recenti realizzate da Gerardi e moltissimi contenuti all'interno da scoprire.

An introduction to the latest technical developments of our technical department with many contents to discover



Aggiorniamo spesso i nostri principali cataloghi e listini Workholding & Tooling, iscriviti per restare sempre informato!

We constantly update our main Workholding and Tooling catalogues and price lists, subscribe to be always up-to-date!

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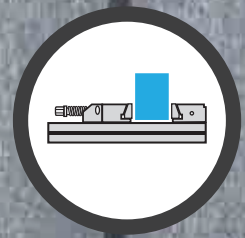
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*The perfect mix!
Price, Quality, Versatility*

STD - StandardFLEX - OK

Morse e Cubi / Vises & Vise Towers

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139D	34	666OS	47						
139DS	34	666S	46						
139S	34	667	49						
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VALIGETTA DI CAMPIONATURA STD / StdFLEX

SAMPLE KIT CASE STD / StdFLEX

Art. 981

Morsa / Vise Art. 1

Cod. 0.98.10000

 PRICE LIST € ~~2.052~~

 SPECIAL PRICE € **1.100**
Art. 1 - All'Interno - Inside:

Art. 985

Morsa / Vise Art. 1A

Cod. 0.98.50000

 PRICE LIST € ~~2.081~~

 SPECIAL PRICE € **1.100**
Art. 1 - All'Interno - Inside:


SIMBOLOGIA DATI TECNICI

TECHNICAL DATA ICONS

GANASCE JAWS							POSSIBILITÀ POSSIBILITY					
	Fissa Fixed	Mobile Movable	Intermedia Intermediate	Fissa con piastra singola Fixed with single plate	Fissa con piastra doppia Fixed with double plate	Ganasce sovrappo- nibili Stack Type Jaws		Montaggio sul fianco o in serie Side mounting or gang operation	Predisposizione Zero Point Zero Point ready	Cubi-morsa Vise tower	Divisore Automatico Automatic dividing head	Divisore Meccanico Mechanical dividing head
PIASTRE GANASCE JAW PLATES						PAGINE PAGES						
	Discendente Pull down	Piana Straight	Cambio rapido manuale Quick manual change	GRIP integrale integral GRIP	Inseri GRIP GRIP Inserts		Accessori & Ricambi Accessories & Spare Parts	Istruzioni corretto utilizzo Instruction for a proper use	Diagrammi forze di serraggio Clamping force diagrams	Sistema Idraulico Hydraulic System		

OPZIONI LAVORAZIONI EXTRA

OPTIONS FOR EXTRA MACHINING

 Nei codici, **STD** si riferisce agli articoli dei gruppi 1, 2 e 3.
 In codes, **STD** refers to articles in groups 1, 2 and 3.

Lavorazione extra Extra machining	Cod.	PRICE LIST €	Lavorazione extra Extra machining	Cod.	PRICE LIST €
AGGIUNTA di un foro calibrato ADDITION of a calibrated hole	MAN-010-STD	110	MONTAGGIO SEMPLICE SIMPLE ASSEMBLY	MAN-060-STD	-
AGGIUNTA di una chiave calibrata ADDITION of a calibrated key-way	MAN-020-STD	110	MONTAGGIO ed ALLINEAMENTO (Standard) (Standard) ASSEMBLY and ALIGNMENT	MAN-070-STD	110
PREDISPOSIZIONE SEMPLICE SIMPLE SET UP	MAN-030-STD	110	MONTAGGIO VERTICALE COMPLETE VERTICAL ASSEMBLY	MAN-080-STD	165
PREDISPOSIZIONE & MONTAGGIO COMPLETO COMPLETE SET UP & MOUNTING	MAN-040-STD	220	ALLINEAMENTO e CONTROLLO tramite DEA ALIGNMENT and CONTROL by DEA \ CMM	MAN-090-STD	440
MONTAGGIO PARZIALE PARTIAL ASSEMBLY	MAN-050-STD	110	TABULATO controllo DEA PRINTOUT DEA control	MAN-100-STD	220

Vedi pagina 1.40 per esempi applicativi - See page 1.40 for application examples

Morse e Cubi / Vises & Vise Towers

STANDARD



Precisione / Accuracy
 $\pm 0,02\text{mm}$



Durezza / Hardened
HRC 58 \pm 2

La morsa più diffusa al mondo!

The most popular and copied vise in the world!

USURA INESISTENTE / NO WEAR

Grazie all'accurata scelta dei materiali impiegati ed allo studio dimensionale computerizzato dei componenti. Costruzione completamente in speciali leghe di acciaio ad alta resistenza, normalizzato, cementato e temprato con durezza 58 \pm 2 HRC. Tutto ciò al fine di conferire massima rigidità, elevate prestazioni e usura inesistente. A riprova di tutto ciò assicuriamo **5 ANNI DI GARANZIA** su tutto il programma morse e organi meccanici in genere.

Thanks to the manufacturing with only the most suitable materials and to the structure of the vise components (developed using computer customised softwares and the experience gained during many years spent working on the specific field). High alloyed quality resistance steel, case hardened HRC 58 \pm 2, is used in manufacturing all the Gerardi vises and accessories in order to give maximum rigidity, high performances and no wear. As evidence we give **5 YEARS WARRANTY** on all the vises and mechanical components

MODULARITÀ / MODULARITY

Tutte le morse ed accessori sono elementi componibili, intercambiabili e perfettamente allineabili fra loro e con i quali è possibile ottenere differenti soluzioni di bloccaggio. Secondo tale principio l'unico elemento che differenzia le attrezzature con identica larghezza di presa è la base (la cui lunghezza determina la massima apertura della morsa), mentre gli altri componenti sono identici. Mediante l'aggiunta o semplice sostituzione di alcuni particolari si può variare la tipologia di bloccaggio secondo le proprie esigenze utilizzando la stessa attrezzatura acquistata in un primo momento (bloccaggi singoli, con base girevole, doppi, verticali, di pezzi piani, tondi, piatti e grezzi, manuali, idraulici o pneumatici).

All vises and accessories are modular and components of all our vises will interchange with perfect alignment to provide different workholding solutions. With this basic principle the only difference between fixtures with the same width of clamping is the base (whose length determines the maximum opening of the vise), while the rest of components have same dimensions. Through the simple addition or substitution of some particulars You can change the type of clamping as Your needs require using the same fixture purchased before (single clamping, swivel base, double, vertical, smooth or round or flat or rough workpieces, manual, hydraulic or pneumatic).

DESIGN COMPATTO / SPACE SAVING DESIGN

La semplicità nonché la compattezza costruttiva consentono un'apertura notevole rispetto all'ingombro totale dell'attrezzatura. Inoltre lo stesso peso (solo 25 kg per una morsa da 150 mm di larghezza ganas cia) è tale da consentire un facile trasferimento da una macchina all'altra.

The space saving design and solid construction allow a maximum blocking ratio to total overall dimension of the vise. Furthermore the weight (only 25 kg for a 150 mm jaw width vise) allows a simple moving from one machine to another.

SERRAGGI RAPIDI / QUICK CLAMPING

Grazie allo scorrimento del gruppo di serraggio nella guida della base (a cremagliera) fino in prossimità del pezzo da lavorare dove si adatterà automaticamente alla nicchia più vicina. L'operazione di serraggio si conclude agendo sulla vite di bloccaggio. Oltre a quello manuale meccanico, sono disponibili 4 ulteriori sistemi di serraggio intercambiabili e indipendenti: 1 - Idraulici / 2 - Pneumatici / 3 - Idraulici manuali / 4 - Idraulici elettrici. L'operazione è in termini di secondi.

Thanks to the clamping device sliding in the vise base slide (compact rack type) till the proximity of the workpiece. The clamping is completed with the main screw. Besides the manual mechanic system, 4 further interchangeable and independent clamping systems are available: 1- Hydraulic / 2- Pneumatic / 3- Manual hydraulic / 4- Electrical hydraulic. The change needs only few seconds.

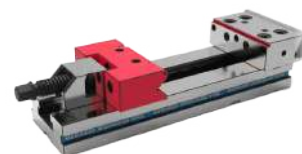


Ganascia monoblocco
 Solid Guided Jaws

Entrambe le ganasce sono costruite in corpo unico (non esistono slitte o tasselli di fissaggio) per garantire una maggiore rigidità e nessuna flessione. Entrambe le piastre ganasce sono costruite con un **angolo di spinta verso il basso**. Ciò assicura, nel momento della chiusura, una trazione del pezzo contro la base della morsa (per trascinamento) e di conseguenza un bloccaggio sicuro e preciso.

Both jaws bodies are built in one solid piece (no slides or key-nuts): in order to guarantee higher rigidity & no bendings. Both jaw plates are manufactured with a **pull down angle**. This ensures, during the clamping operation, a downward run of the workpiece against the vise base (by dragging) and thus a precise and safety clamping

Ganascia prismatica
 Prismatic jaw



La ganascia prismatica Art.217 consente il serraggio e la lavorazione di particolari tondi in orizzontale e in verticale oppure il serraggio rialzato di particolari tramite il gradino.

The prismatic jaw Art.217 allows the clamping and machining of vertical and horizontal round workpieces or to clamp rised workpieces for drilled through on the step

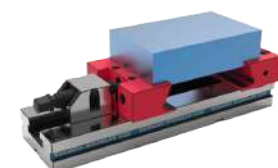
Sovraganascia
 Stack type jaw



Quattro fori filettati supplementari sopra le ganasce danno la possibilità di installare ganasce sovrapponibili per applicazioni speciali.

4 extra tapped holes over the jaws for special Gerardi stack type jaw application

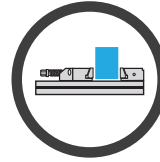
Coda di Rondine
 Dove Tail



Rimuovendo le piastre ganasce è possibile sfruttare l'inclinazione a 15° del corpo per serrare il particolare, prelaborando la faccia inferiore del particolare ottenendo così un sistema ad incastro irreversibile.

By taking off the jaw plates, it is possible to exploit the body inclination of 15° to clamp the workpiece and pre-machine the lower surface thus obtaining an irreversible dovetail system.

La morsa componibile GERARDI è costruita con il concetto di intercambiabilità di tutti gli elementi componenti l'attrezzatura e con la certezza di poter usare più morse sulla stessa macchina con posizionamento ed allineamento perfetto in pochi secondi. Tutto ciò è possibile per l'elevato grado di precisione della morsa stessa ed in particolare per quanto riguarda: l'altezza della base, l'allineamento con tasselli di cava longitudinale rispetto alla ganasca fissa, la perpendicolarità della ganasca fissa rispetto alla base ed il parallelismo dei piani della base. Tali caratteristiche consentono di risolvere più svariati e complicati problemi di fissaggio in pochi istanti con l'uso di più morse.



SCAN IT TO SEE



THE WEB PAGE



All GERARDI vises and accessories are modular and components of all our vises will interchange with perfect alignment. The vises can be matched side to side with the highest precision and minimum of set up times thanks to many fixed reference points. All this is possible thanks to the high precision of the vise particularly as regards: the base high, the alignment with longitudinal key-nuts with respect to the fixed jaw, the perpendicularity of the fixed jaw with respect to the vise base and the parallelism of the base top and bottom surfaces. Those features allows us to solve the most varied and complicated problems of clamping in a few seconds with the use of more vises.

Il trinomio perfetto!
Convenienza, Qualità, Versatilità

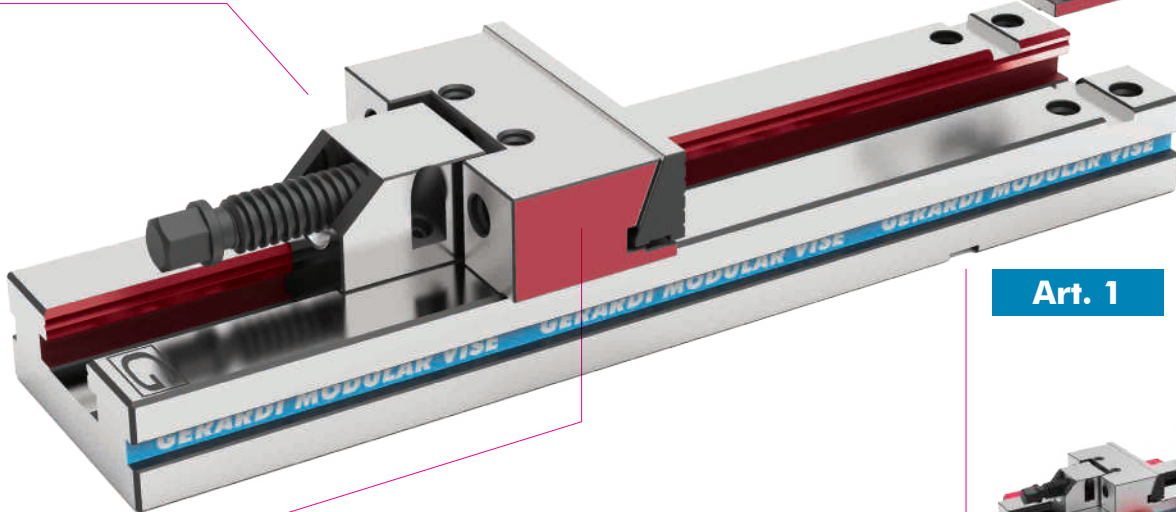
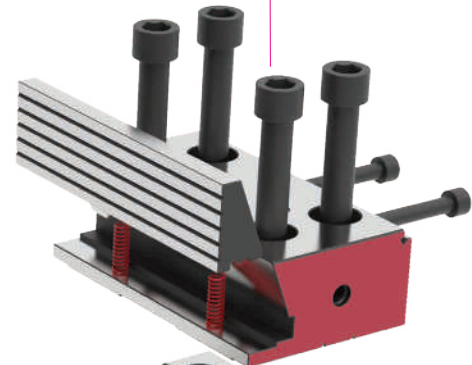
The perfect mix!
Price, Quality, Versatility



Versatility - Versatility

La ganasca fissa con gradino posteriore di 5x5 mm consente, una volta ruotata di 180°, il perfetto accoppiamento al gradino della ganasca prismatica mobile (Art.217) ordinabile separatamente: è così possibile il serraggio di pezzi piatti senza parallele e di tondi sia in orizzontale che in verticale. Inoltre è disponibile una vastissima gamma di ganasce nonché un sistema di parallele piane e angolari per le più svariate applicazioni e la lavorazione di pezzi di qualsiasi forma e dimensione. Illimitata gamma di aperture possibili.

Fixed jaw with 5x5mm step matchable to the prismatic movable jaw (Art.217 to be ordered separately) which allows to clamp plates without parallels and round workpieces vertical & horizontal way. Vertical, sideway and gang operation are possible with the appropriate components (column, narrow width jaws, etc.) Unlimited clamping range.


Art. 1


Precision - Highest accuracies $\pm 0,02\text{mm}$

Slittone base con tutte le superfici di scorrimento ed accoppiamento rettificata. L'allineamento agli assi della macchina avviene grazie alle chiavette longitudinali e trasversali (16H7) o fori di posizionamento ($\varnothing 16\text{mm F7}$), a richiesta, previsti sulla base di ciascuna morsa. Naturalmente tutto ciò consente oltre alle precisioni dichiarate tempi di installazione ristrettissimi.

Solid vise base. Every sliding and coupling surface is ground. Centesimal tolerances are guaranteed by checking cycles with CNC measuring machine. The perfect alignment with the machine axis is given by longitudinal and cross keyways (16H7) or positioning holes ($\varnothing 16\text{mm F7}$), upon specific request, on the vise base. Of course this allows minimum of set up times and gang operations.

Staffe d'ancoraggio / Vise holding clamps

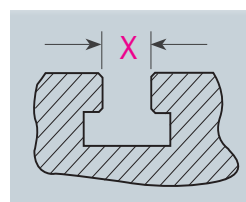
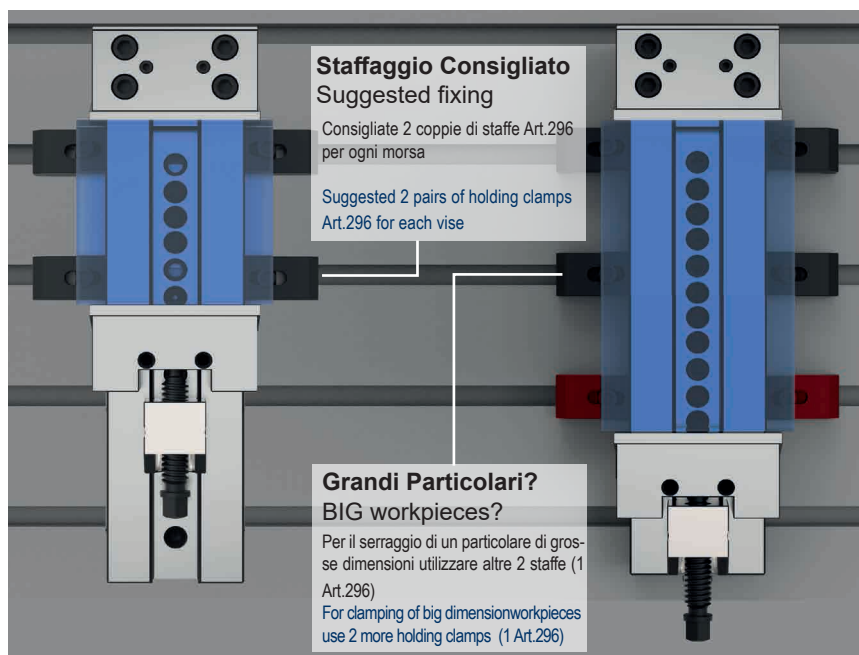
NEW
2024

Standard / StandardFLEX

Coppia staffe di fissaggio Art.296, complete di vite e dado a "T"
Pair of vise holding clamps Art.296 complete of screw and "T" nuts

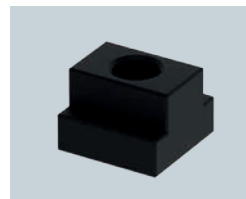
Esempio d'ordine per morsa tipo 3 su macchina con cave a T da 18mm: Art.296 T.3 X=18mm
Oppure con codice: 2.29.6300 X=18mm

 Order example for Type 3 vise on machine with 18mm T-slots: Art.296 T.3 X=18mm

 Also with code: 2.29.6300 X=18mm

Cava a T
T Slot

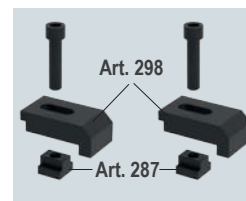
Specificare sempre la cava della vostra macchina

Always specify the machine T-slot dimension


Art.287 (Pag.4.34)
Dadi a T - T Nuts

Per fissaggio morse alle cave a T della macchina

For vise clamping on the machine T-slots


Art.296

(Art.298 + Art.287)

Consigliate 2 coppie di staffe Art.296 per ogni morsa

Suggested 2 pairs of holding clamps Art.296 for each vise

Tipo (grandezza) morsa Vise type (size)		1				1 - 2				3 - 4				5 - 6																		
Art. 296 Coppia di staffe Holding clamps pair	Cava a T slot X	12	14	16	18	12*	14	16	18	20	18*	20	22	16	18	20	22	18*	20	22	16	18	20	22	18*	20	22					
	T-nuts Ref. N°	8	9	10	11	12	13	14	20	21	22	32	33	34	20	21	22	23	32	33	34	20	21	22	23	32	33	34				
	Filetto vite Screw thread	M8				M10				M12 *				M16				M12 *				M16				M12				M16 *		
1 X M8 	A	50	50	50	50	50	50	50	50	76	76	76	76	76	76	76	76	86	86	86	86	86	86	86	86	86	86	86	86			
	B	24	24	24	24	24	24	24	24	30	30	30	30	30	30	30	30	40	40	40	40	40	40	40	40	40	40	40	40			
	C	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	10	10	10	10	10	10	10	10	10	10	10	10			
	Ø D	8,5	11	13	17	11	13	17	17	13	17	17	17	13	17	17	17	13	17	17	17	13	17	17	17	13	17	17	17			
	E	10	10	10	10	10	10	10	10	13	13	13	13	13	13	13	13	15	15	15	15	15	15	15	15	15	15	15	15			
	Ø F	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	G	14	16	17,5	19	16	17,5	19	19	17	16	16	16	17	16	16	16	26	26	26	26	26	26	26	26	26	26	26	26			
	G1	17	15	13	9	15	13	9	9	22	15	15	15	22	15	15	15	27	27	27	27	27	27	27	27	27	27	27	27			
	H	34	34	34	34	34	34	34	34	42	42	42	42	42	42	42	42	50	50	50	50	50	50	50	50	50	50	50	50			
	I	8	10	10	10	10	10	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	J	4	4	4	4	4	4	4	4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10			
T ± 0,1	15	15	15	15	15	15	15	15	20	20	20	20	20	20	20	20	26	26	26	26	26	26	26	26	26	26	26	26				
Cod.	2.29.61000 / M8	2.29.61000 / M10	2.29.61000 / M12	2.29.61000 / M16	2.29.61000 / M12	2.29.61000 / M12	2.29.61000 / M12	2.29.61000 / M12	2.29.63000 / M12	2.29.63000 / M12	2.29.63000 / M12	2.29.63000 / M12	2.29.63000 / M12	2.29.63000 / M12	2.29.63000 / M12	2.29.63000 / M12	2.29.65000 / M12	2.29.65000 / M12	2.29.65000 / M12	2.29.65000 / M12	2.29.65000 / M12	2.29.65000 / M12	2.29.65000 / M12	2.29.65000 / M12	2.29.65000 / M12	2.29.65000 / M12	2.29.65000 / M12					
	45	45	45	45	45	45	45	45	56	56	56	56	56	56	56	56	88	88	88	88	88	88	88	88	88	88	88					

* Scelta consigliata - Suggested choice

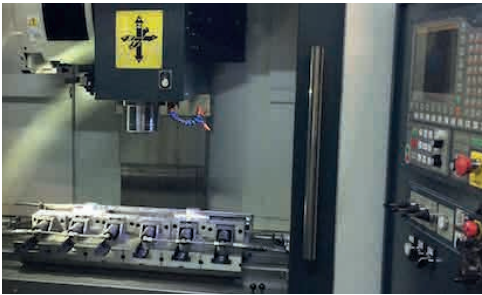
* Scelta NON consigliata - NO Suggested choice

Soluzioni personalizzate / Customized solutions

Standard / StandardFLEX

Soluzioni personalizzate a tutti i vostri problemi di serraggio

Customized solutions for all your clamping problems



Morse StandardMatic

StandardMatic vises

Morse Modulari di Precisione accoppiabili ed allineabili per serraggi multipli Pneumoidraulici (Serie StandardMatic)

Precision Modular vises matchable for gang operations and Pneumohydraulic clamping (StandardMatic series)



Modularità & versatilità

Modularity & versatility

Morsa STD con ganasce lavorabili montata in orizzontale su un centro di lavoro verticale.

Std vise with machineable jaws horizontally mounted on vertical machining centres.



Morse modulari di precisione

Precision modular vises

Morse modulari di precisione allineate per il serraggio di un particolare di grandi dimensioni.

Precision modular vises aligned for rather big workpiece clamping



Ganasce monoblocco guidate

Solid Guided jaws

Ganasce guidate monoblocco costruite con un angolo di spinta verso il basso

Guided movable jaws built in one solid body with a pull down angle



Usura inesistente

No wear

Costruzione in speciali leghe di acciaio ad alta resistenza, normalizzato, cementato e temprato con durezza 60 ±2 HRC

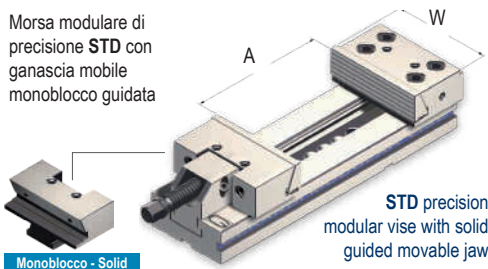
High alloyed quality resistance steel, case hardened HRC 60±2

Tipo (grandezza) morsa / Vise type (size)

	kN	1 16 kN	2 25 kN	3 30 kN		4 30 kN			
Apertura massima / Maximum spread	A	100	150	200	300	200	300	400	500
	W	100	125	150		175			
	B	30	40	50		60			
	C	35	40	50		58			
	D	270	345	420	520	455	555	655	755
	G	75	95	125		145			
	kg	6.8	12.9	25.5	29	37	42	47	52
	Cod.	3.01.00000	3.02.10000	3.03.20000	3.03.30000	3.04.20000	3.04.30000	3.04.40000	3.04.50000
	€	685	754	823	957	1.165	1.232	1.369	1.641

Art. 1

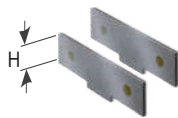
Morsa modulare di precisione STD con ganascia mobile monoblocco guidata


STD precision modular vise with solid guided movable jaw

Monoblocco - Solid

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !
Art. 313

 Parallele magnetiche
 Magnetic parallel plates

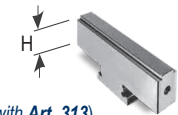
 Vedi pagina 4.27 per altezze disponibili
 See page 4.27 for available height


Cod.	4.31.3100C	4.31.3200C	4.31.3300C	4.31.3400C
€	73	93	116	136
H	23	33	43	53

Art. 212

 Ganascia mobile intermedia
 (da usare con Art. 313)

Intermediate movable jaw (to be used with Art. 313)



Cod.	1.21.21000	1.21.22000	1.21.23000	1.21.24000
€	105	128	165	208

Art. 217

 Ganascia mobile prismatica
 Prismatic movable jaw


Cod.	2.21.71000	2.21.72000	2.21.73000	2.21.74000
€	164	137	194	262

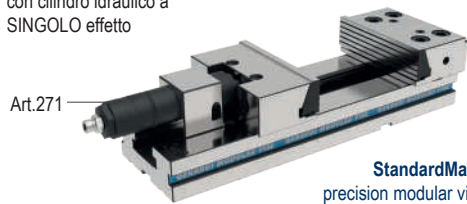
Art. 242G

 Piastra ganascia con inserti GRIP completa di parallela magnetica
 Jaw plate with GRIP inserts with magnetic parallel

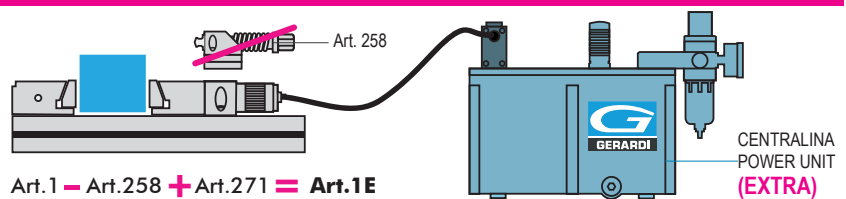

Cod.	1.24.2G100	1.24.2G200	1.24.2G300	1.24.2G400
€	139	150	194	217

Art. 1E
NEW 2024

Morsa modulare StandardMatic con cilindro idraulico a SINGOLO effetto


StandardMatic precision modular vise with SINGLE effect hydraulic cylinder

Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41							
€	934	1.014	1.103	1.238	1.481	1.549	1.685	1.957

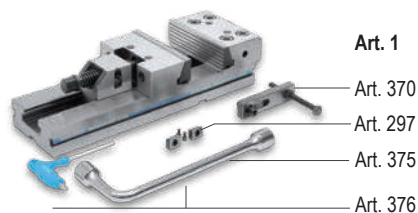
MORSE StandardMatic

Art. 1 - Art. 258 + Art. 271 = Art. 1E

Dotazione standard:

- 1 arresto laterale Art. 370
- 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
- 1 chiave a pipa Art. 375 ■ 1 chiave a "T" Art. 376

Extra per ogni foro calibrato (tolleranza F7) - MAN-010-STD : euro 110,00

Extra per ogni chiave a T (tolleranza H7) - MAN-020-STD : euro 110,00

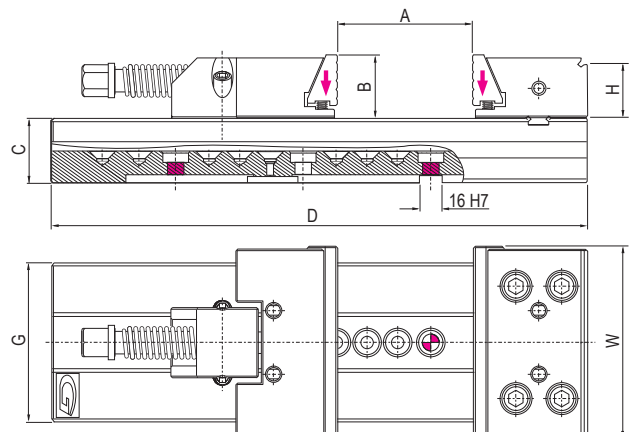


Standard equipment:

- 1 workstop Art. 370
- 1 pair of positioning key-nuts for 16 mm slot Art. 297
- 1 box wrench Art. 375 ■ 1 T-wrench Art. 376

Extra charge for each calibrated hole (F7 tolerance) - MAN-010-STD : euro 110,00

Extra charge for each calibrated key nut (F7 tolerance) - MAN-020-STD : euro 110,00


 Vedi gruppo 4 per gamma completa accessori
 See group 4 for complete range of accessories

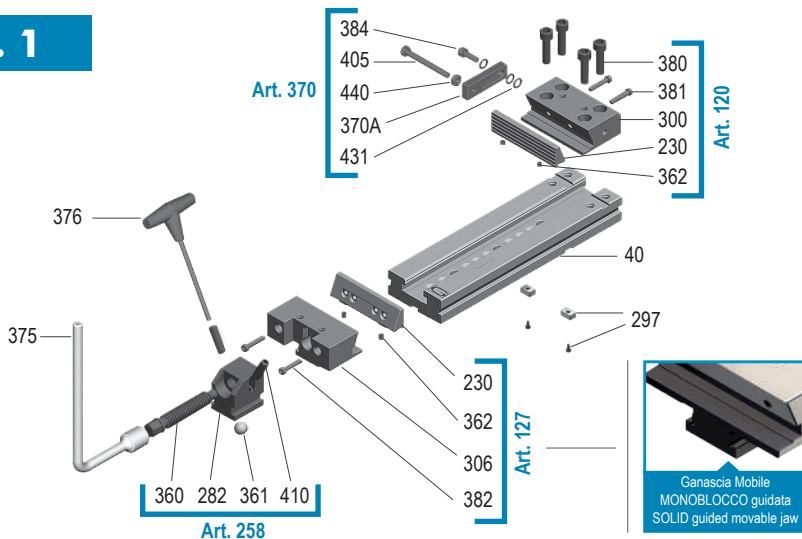
	5 40 kN					6 40 kN						
	200	300	400	500	600	200	300	400	500	600	700	800
A												
W			200						300			
B			65						80			
C			70						78			
D	495	595	695	795	895	535	635	735	835	935	1035	1135
G			170						195			
kg	64	69	74	79	84	95	105	115	125	135	145	155
Cod.	3.05.20000	3.05.30000	3.05.40000	3.05.50000	3.05.60000	3.06.20000	3.06.30000	3.06.40000	3.06.50000	3.06.60000	3.06.70000	3.06.80000
€	1.505	1.779	2.053	2.464	2.873	2.326	2.873	3.421	3.832	4.241	4.651	5.061

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

4.31.3500C			4.31.3600C									
Art. 313	155		176									
	53		68									
1.21.25000			1.21.26000									
Art. 212	250		346									
2.21.75000			2.21.76000									
Art. 217	346		589									
1.24.2G500			1.24.2G600									
Art. 242G	297		387									
Cod. Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41												
€	1.887	2.161	2.435	2.846	3.256	2.617	3.164	3.712	4.123	4.531	4.941	5.351

StandardMatic VISES

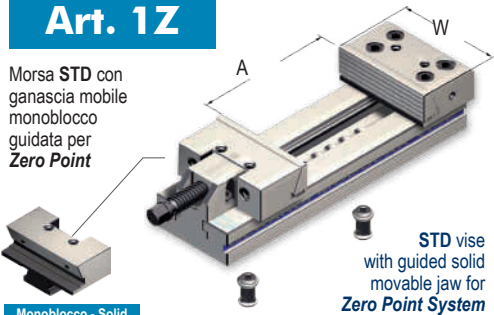

Centralina Pneumoidraulica Art.393/394/395 (EXTRA)
 Pneumohydraulic Power Unit Art.393/394/395 (EXTRA)

Art. 1


Art.	Pag.	Art.	Pag.
40	1.24	376	4.35
230	4.9	380	4.28
282	4.36	381	4.28
297	4.34	382	4.28
300	4.29	384	4.28
306	4.29	405	4.35
360	4.36	410	4.36
361	4.36	431	4.28
362	4.28	440	4.28
370A	4.35	-	-
375	4.35	-	-



Tipo (grandezza) morsa / Vise type (size)	kN	1*	2	3		4			
		16 kN	25 kN	30 kN		30 kN			
Apertura massima / Maximum spread	A	100	150	200	300	200	300	400	500
Art. 1Z	W	100	125	150		175			
	B	30	40	50		60			
	C	35	40	50		58			
	D	270	345	420	520	455	555	655	755
	G	75	95	125		145			
	kg	7.3	13.2	26.2	29.7	37.9	43	48.1	53.2
	Cod.	1.1Z.10000	1.1Z.20000	1.1Z.32000	1.1Z.33000	1.1Z.42000	1.1Z.43000	1.1Z.44000	1.1Z.45000
	€	823	889	957	1.095	1.301	1.369	1.505	1.779



Monoblocco - Solid

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

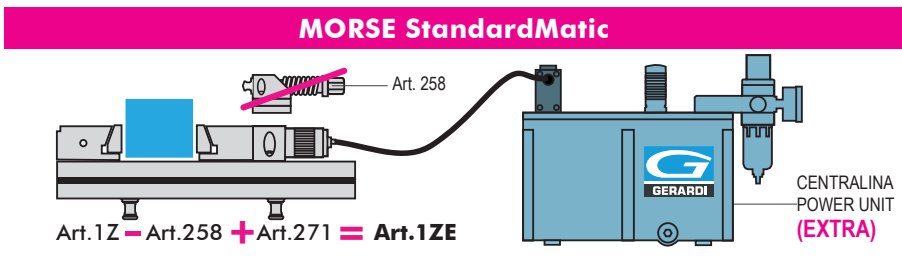
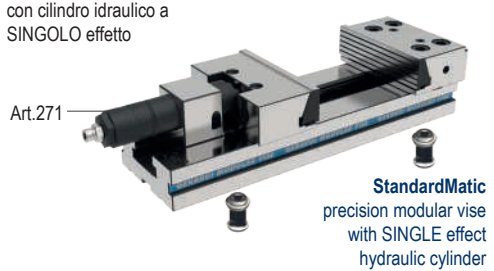
Art. 313	Parallele magnetiche / Magnetic parallel plates			
	Cod.	4.31.3100C	4.31.3200C	4.31.3300C
€	73	93	116	136
H	23	33	43	53

Art. 212	Ganascia mobile intermedia (da usare con Art. 313) / Intermediate movable jaw (to be used with Art. 313)			
	Cod.	1.21.21000	1.21.22000	1.21.23000
€	105	128	165	208

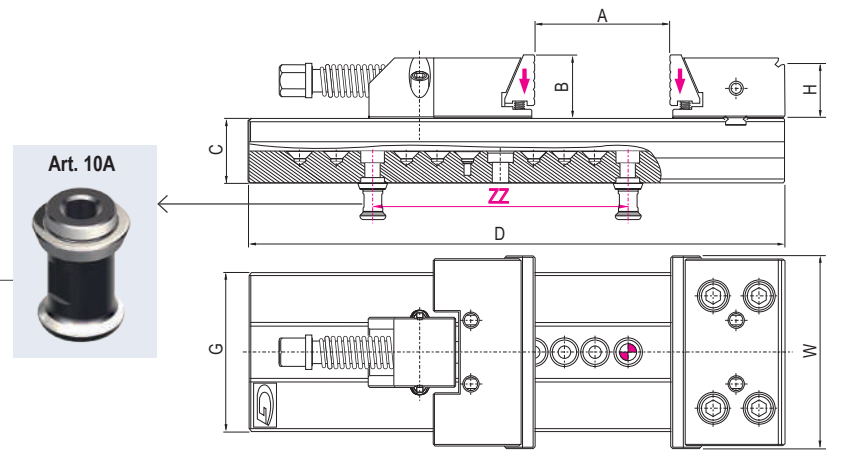
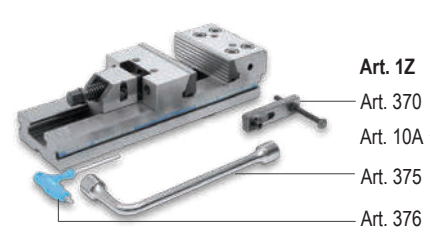
Art. 217	Ganascia mobile prismatica / Prismatic movable jaw			
	Cod.	2.21.71000	2.21.72000	2.21.73000
€	164	137	194	262

Art. 242G	Piastra ganascia con inserti GRIP completa di parallela magnetica / Jaw plate with GRIP inserts with magnetic parallel			
	Cod.	1.24.2G100	1.24.2G200	1.24.2G300
€	139	150	194	217

Art. 1ZE	Morsa modulare StandardMatic con cilindro idraulico a SINGOLO effetto							
	Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41						
€	1.071	1.149	1.238	1.376	1.618	1.685	1.821	2.094



- Dotazione standard:
- 1 arresto laterale Art. 370
 - 2 tiranti Art. 10A
 - 1 chiave a pipa Art. 375
 - 1 chiave a "T" Art. 376



- Standard equipment:
- 1 workshop Art. 370
 - 2 pullstuds Art. 10A
 - 1 box wrench Art. 375
 - 1 T-wrench Art. 376

* Per morsa Tipo 1 sedi per tiranti 10A (tipo1) con interasse dei fori 150mm - Quote interassi tiranti ZZ a pag.1.24
 For Vise T.1 - 10A pull studs positioning holes (T.1) with 150mm pitch - See on pag. 1.24 for pull studs pitches ZZ

Vedi gruppo 4 per gamma completa accessori
 See group 4 for complete range of accessories

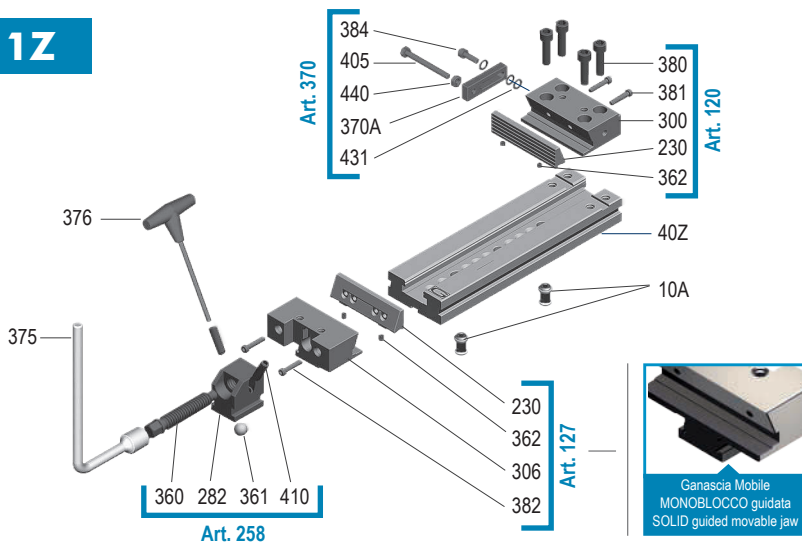
	5 40 kN					6 40 kN						
A	200	300	400	500	600	200	300	400	500	600	700	800
W	200					300						
B	65					80						
C	70					78						
D	495	595	695	795	895	535	635	735	835	935	1035	1135
G	170					195						
kg	65.3	70.3	75.3	80.3	85.3	97	107	117	127	137	147	157
Cod.	1.1Z.52000	1.1Z.53000	1.1Z.54000	1.1Z.55000	1.1Z.56000	1.1Z.62000	1.1Z.63000	1.1Z.64000	1.1Z.65000	1.1Z.66000	1.1Z.67000	1.1Z.68000
€	1.641	1.916	2.188	2.599	3.010	2.464	3.010	3.556	3.968	4.378	4.789	5.198

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

4.31.3500C	Art. 313	155		4.31.3600C	176							
53				68								
1.21.25000	Art. 212	250		1.21.26000	346							
2.21.75000	Art. 217	346		2.21.76000	589							
1.24.2G500	Art. 242G	297		1.24.2G600	387							
Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41											
€	2.024	2.298	2.570	2.982	3.391	2.754	3.301	3.847	4.259	4.668	5.079	5.488

StandardMatic VISES


Centralina Pneumoidraulica Art.393/394/395 (EXTRA)
 Pneumohydraulic Power Unit Art.393/394/395 (EXTRA)

Art. 1Z


Art.	Pag.	Art.	Pag.
10A	9.31	376	4.35
40Z	1.24	380	4.28
230	4.9	381	4.28
282	4.36	382	4.28
300	4.29	384	4.28
306	4.29	405	4.35
360	4.36	410	4.36
361	4.36	431	4.28
362	4.28	440	4.28
370A	4.35	-	-
375	4.35	-	-

Tipo (grandezza) morsa / Vise type (size)	kN	1		2		3		4	
		16 kN	25 kN	30 kN	30 kN	30 kN	30 kN	30 kN	
Apertura massima / Maximum spread	A	100	150	200	300	200	300	400	500
Art. 12 Morsa STD con ganasce ridotte rettificate. (Maggior Pressione) STD vise with narrow width ground jaws (Higher Pressure) Monoblocco - Solid	W	75	95	125		145			
	B	30	40	50		60			
	C	35	40	50		58			
	D	270	345	420	520	455	555	655	755
	G	75	95	125		145			
	kg	6.2	11.9	24.2	27.8	35	39	46	51
	Cod.	3.01.00120	3.02.10120	3.03.20120	3.03.30120	3.04.20120	3.04.30120	3.04.40120	3.04.50120
	€	742	925	1.112	1.283	1.414	1.555	1.696	1.846

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

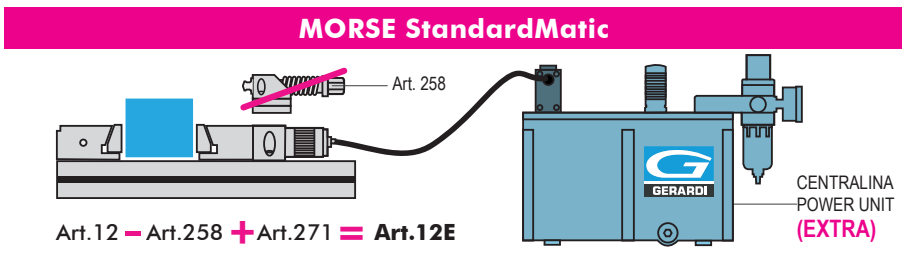
Art. 313R Parallele magnetiche Magnetic parallel plates Vedi pagina 4.27 per altezze disponibili See page 4.27 for available height		Cod.	4.31.3R10C	4.31.3R20C	4.31.3R30C	4.31.3R40C
		€	73	93	116	136
		H	23	33	43	53

Art. 213 Ganasca mobile intermedia (da usare con Art. 313R) Intermediate movable jaw (to be used with Art. 313R)		Cod.	1.21.31000	1.21.32000	1.21.33000	1.21.34000
		€	105	128	165	208

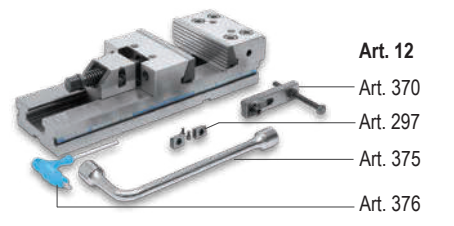
Art. 218 Ganasca mobile prismatica Prismatic movable jaw		Cod.	2.21.81000	2.21.82000	2.21.83000	2.21.84000
		€	164	137	194	262

Art. 243G Piastra ganasca ridotta con inserti GRIP completa di parallela magnetica Narrow width jaw plate with GRIP inserts with magnetic parallel		Cod.	1.24.3G100	1.24.3G200	1.24.3G300	1.24.3G400
		€	139	150	161	217

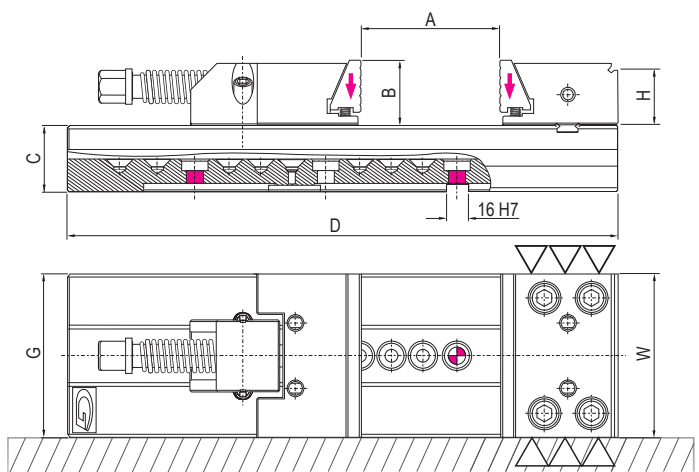
Art. 12E NEW 2024 Morsa modulare StandardMatic con cilindro idraulico a SINGOLO effetto		Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41							
		€	990	1.186	1.391	1.562	1.730	1.871	2.012	2.162



- Dotazione standard:
- 1 arresto laterale Art. 370
 - 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
 - 1 chiave a pipa Art. 375 ■ 1 chiave a "T" Art. 376
- Extra per ogni foro calibrato (tolleranza F7) - MAN-010-STD : euro 110,00
 Extra per ogni chiave a T (tolleranza H7) - MAN-020-STD : euro 110,00



- Standard equipment:
- 1 workstop Art. 370
 - 1 pair of positioning key-nuts for 16 mm slot Art. 297
 - 1 box wrench Art. 375 ■ 1 T-wrench Art. 376
- Extra charge for each calibrated hole (F7 tolerance) - MAN-010-STD : euro 110,00
 Extra charge for each calibrated key nut (F7 tolerance) - MAN-020-STD : euro 110,00



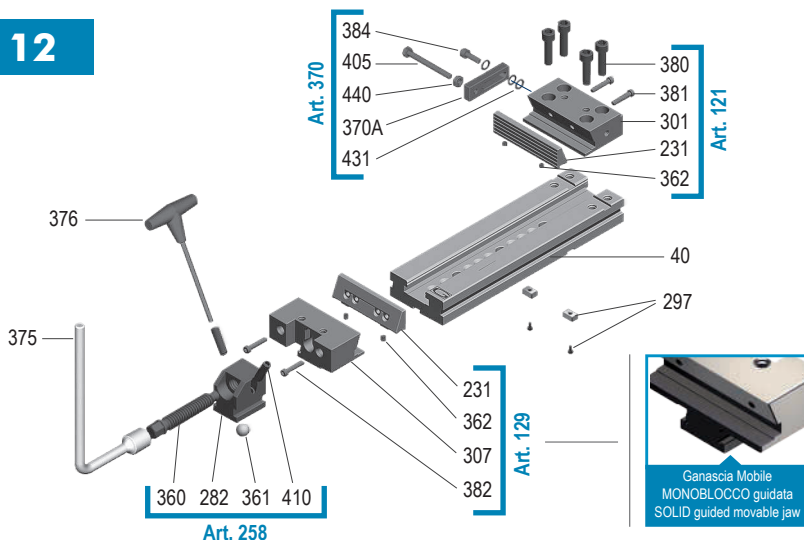
	5 40 kN					6 40 kN						
	200	300	400	500	600	200	300	400	500	600	700	800
A												
W			170						195			
B			65						80			
C			70						78			
D	495	595	695	795	895	535	635	735	835	935	1035	1135
G			170						195			
kg	62	67	72	77	82	88	98	108	118	128	138	148
Cod.	3.05.20120	3.05.30120	3.05.40120	3.05.50120	3.05.60120	3.06.20120	3.06.30120	3.06.40120	3.06.50120	3.06.60120	3.06.70120	3.06.80120
€	1.846	2.210	2.582	2.946	3.317	2.763	3.224	3.684	4.144	4.603	5.073	5.524

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

4.31.3R50C		4.31.3R60C	
Art. 313R	155		176
	53		68
1.21.35000		1.21.36000	
Art. 213	250		346
2.21.85000		2.21.86000	
Art. 218	346		589
1.24.3G500		1.24.3G600	
Art. 243G	264		356
Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41		
€	2.229	2.593	2.965
	3.329	3.699	3.053
	3.515	3.974	4.434
	4.892	5.364	5.815

StandardMatic VISES

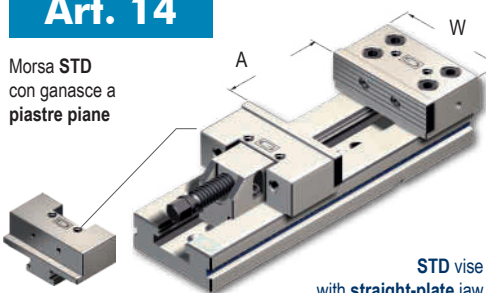
Centralina Pneumoidraulica Art.393/394/395 (EXTRA)
 Pneumohydraulic Power Unit Art.393/394/395 (EXTRA)

Art. 12


Art.	Pag.	Art.	Pag.
40	1.24	376	4.35
231	4.9	380	4.28
282	4.36	381	4.28
297	4.34	382	4.28
301	4.29	384	4.28
307	4.29	405	4.35
360	4.36	410	4.36
361	4.36	431	4.28
362	4.28	440	4.28
370A	4.35	-	-
375	4.35	-	-

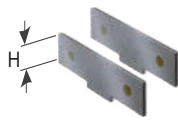


Tipo (grandezza) morsa / Vise type (size)

	kN	1 16 kN	2 25 kN	3 30 kN		4 30 kN			
Apertura massima / Maximum spread	A	100	150	200	300	200	300	400	500
Art. 14 Morsa STD con ganasce a piastre piane  STD vise with straight-plate jaw Monoblocco - Solid	W	100	125	150		175			
	B	30	40	50		60			
	C	35	40	50		58			
	D	270	345	420	520	455	555	655	755
	G	75	95	125		145			
	kg	6.8	12.9	25.5	29	37	42	47	52
	Cod.	1.14.10000	1.14.20000	1.14.32000	1.14.33000	1.14.42000	1.14.43000	1.14.44000	1.14.45000
	€	685	754	823	957	1.165	1.232	1.369	1.641

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !
Art. 313

 Parallele magnetiche
 Magnetic parallel plates

 Vedi pagina 4.27 per altezze disponibili
 See page 4.27 for available height


Cod.	4.31.3100C	4.31.3200C	4.31.3300C	4.31.3400C
€	73	93	116	136
H	23	33	43	53

Art. 212

 Ganasce mobile intermedia
 (da usare con Art. 313)

Intermediate movable jaw (to be used with Art. 313)



Cod.	1.21.21000	1.21.22000	1.21.23000	1.21.24000
€	105	128	165	208

Art. 246

 Piastra piana in acciaio lavorabile
 Machinable steel straight jaw plate

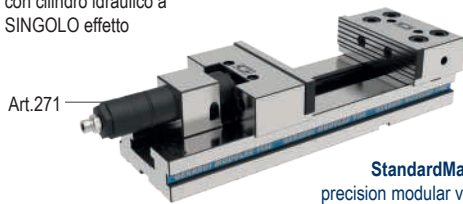

Cod.	1.65.16200	1.65.26200	1.65.36200	1.65.46200
€	66	73	86	105

Art. 246G

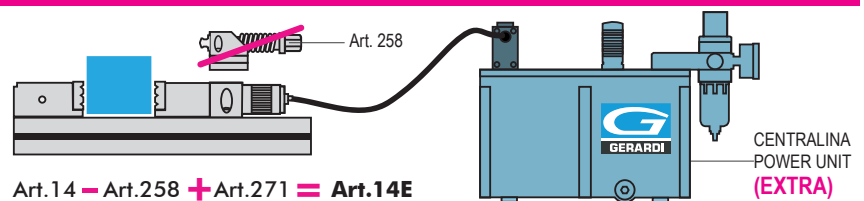
 Piastra ganasce con inserti GRIP
 completa di parallela magnetica
 Jaw plate with GRIP inserts with magnetic parallel


Cod.	1.24.6G100	1.24.6G200	1.24.6G300	1.24.6G400
€	139	150	194	217

Art. 14E
NEW 2024

 Morsa modulare StandardMatic
 con cilindro idraulico a
 SINGOLO effetto

 StandardMatic
 precision modular vise
 with SINGLE effect
 hydraulic cylinder

Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41							
€	934	1.014	1.103	1.238	1.481	1.549	1.685	1.957

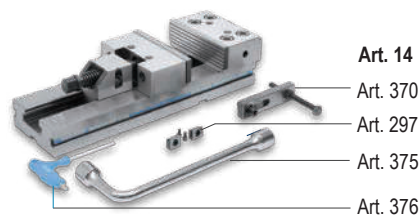
MORSE StandardMatic


Dotazione standard:

- 1 arresto laterale Art. 370
- 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
- 1 chiave a pipa Art. 375 ■ 1 chiave a "T" Art. 376

Extra per ogni foro calibrato (tolleranza F7) - MAN-010-STD - euro 110,00

Extra per ogni chiavevitta (tolleranza H7) - MAN-020-STD - euro 110,00

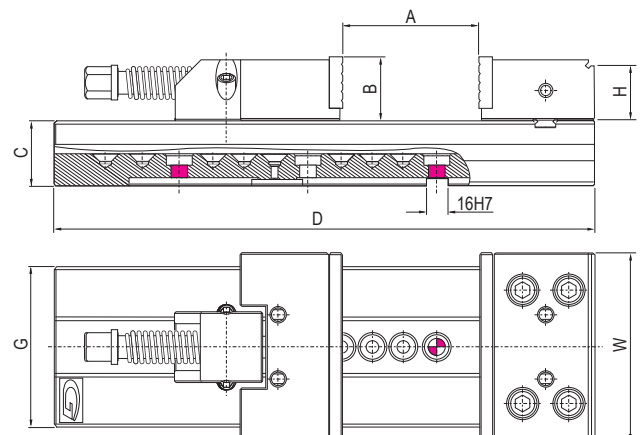


Standard equipment:

- 1 workstop Art. 370
- 1 pair of positioning key-nuts for 16 mm slot Art. 297
- 1 box wrench Art. 375 ■ 1 T-wrench Art. 376

Extra charge for each calibrated hole (F7 tolerance) - MAN-010-STD - euro 110,00

Extra charge for each calibrated key nut (F7 tolerance) - MAN-020-STD - euro 110,00


 Vedi gruppo 4 per gamma completa accessori
 See group 4 for complete range of accessories

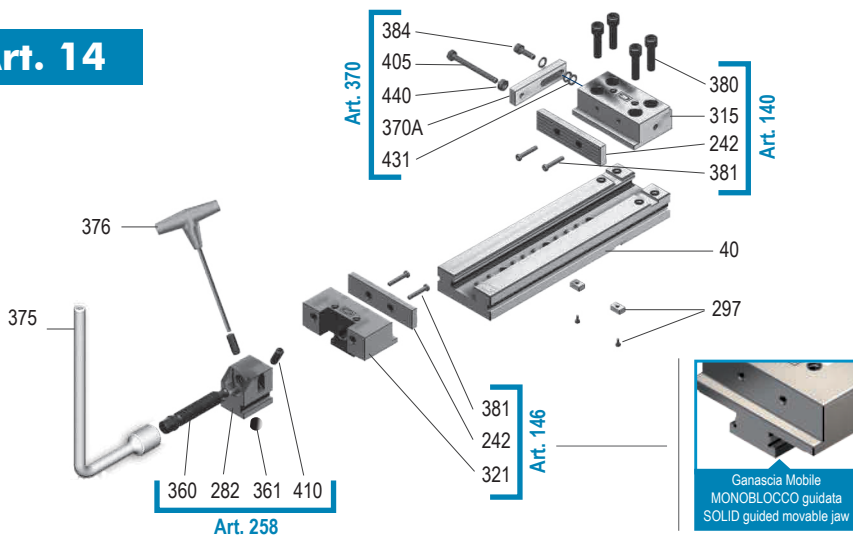
	5 40 kN					6 40 kN						
A	200	300	400	500	600	200	300	400	500	600	700	800
W	200					300						
B	65					80						
C	70					78						
D	495	595	695	795	895	535	635	735	835	935	1035	1135
G	170					195						
kg	64	69	74	79	84	95	105	115	125	135	145	155
Cod.	1.14.52000	1.14.53000	1.14.54000	1.14.55000	1.14.56000	1.14.62000	1.14.63000	1.14.64000	1.14.65000	1.14.66000	1.14.67000	1.14.68000
€	1.505	1.779	2.053	2.464	2.873	2.326	2.873	3.421	3.832	4.241	4.651	5.061

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

4.31.3500C	Art. 313	155		4.31.3600C		176						
		53				68						
1.21.25000	Art. 212	250		1.21.26000		346						
1.65.56200	Art. 246	146		1.65.66200		194						
1.24.6G500	Art. 246G	297		1.24.6G600		387						
Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41											
€	1.887	2.161	2.435	2.846	3.256	2.617	3.164	3.712	4.123	4.531	4.941	5.351

StandardMatic VISES

Centralina Pneumoidraulica Art.393/394/395 (EXTRA)
 Pneumohydraulic Power Unit Art.393/394/395 (EXTRA)

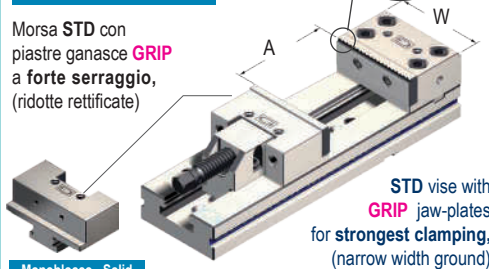

Art. 14


Art.	Pag.	Art.	Pag.
40	1.24	380	4.28
242	4.11	381	4.28
282	4.36	384	4.28
297	4.34	405	4.35
315	4.30	410	4.36
321	4.30	431	4.28
360	4.36	440	4.28
361	4.36	-	-
370A	4.35	-	-
375	4.35	-	-
376	4.35	-	-


Tipo (grandezza) morsa / Vise type (size)

	kN	1 16 kN	2 25 kN	3 30 kN	4 30 kN				
Apertura massima / Maximum spread	A	100	150	200	300	200	300	400	500
	W	75	95	125		145			
	B	30	40	50		60			
	C	35	40	50		58			
	D	270	345	420	520	455	555	655	755
	G	75	95	125		145			
	kg	6.2	11.9	24.2	27.8	35	39	46	51
	Cod.	1.15.10000	1.15.20000	1.15.32000	1.15.33000	1.15.42000	1.15.43000	1.15.44000	1.15.45000
	€	742	925	1.112	1.283	1.414	1.555	1.696	1.846

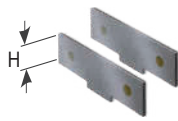
Art. 15

 Morsa STD con
 piastre ganasce **GRIP**
 a forte serraggio,
 (ridotte rettificate)

 STD vise with
GRIP jaw-plates
 for strongest clamping,
 (narrow width ground)

Monoblocco - Solid

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !
Art. 313R

 Parallele magnetiche
 Magnetic parallel plates

 Vedi pagina 4.27 per altezze disponibili
 See page 4.27 for available height


Cod.	4.31.3R10C	4.31.3R20C	4.31.3R30C	4.31.3R40C
€	73	93	116	136
H	23	33	43	53

Art. 247

 Piastra piana ridotta in acciaio lavorabile
 Machinable steel narrow width straight jaw plate


Cod.	1.65.17200	1.65.27200	1.65.37200	1.65.47200
€	66	73	86	105

Art. 218

 Ganasca mobile prismatica
 Prismatic movable jaw

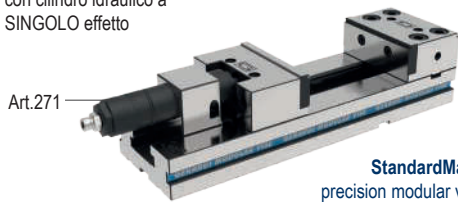

Cod.	2.21.81000	2.21.82000	2.21.83000	2.21.84000
€	164	137	194	262

Art. 247G

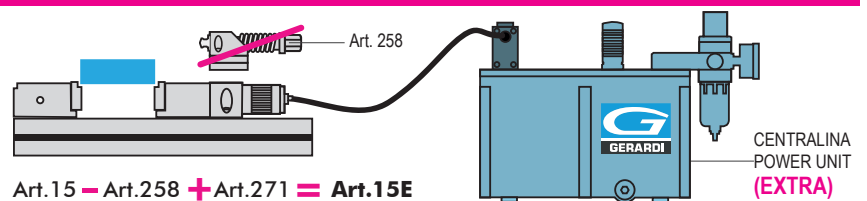
 Piastra ganasca ridotta con inserti GRIP
 completa di parallela magnetica
 Narrow width jaw plate with GRIP inserts with magnetic parallel


Cod.	1.24.7G100	1.24.7G200	1.24.7G300	1.24.7G400
€	139	150	194	217

Art. 15E
**NEW
2024**

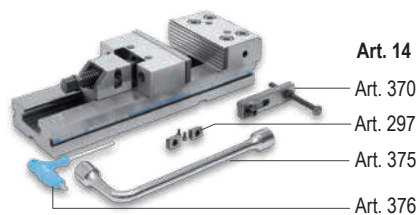
 Morsa modulare **StandardMatic**
 con cilindro idraulico a
 SINGOLO effetto

StandardMatic
 precision modular vise
 with **SINGLE** effect
 hydraulic cylinder

Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41							
€	990	1.186	1.391	1.562	1.730	1.871	2.012	2.162

MORSE StandardMatic


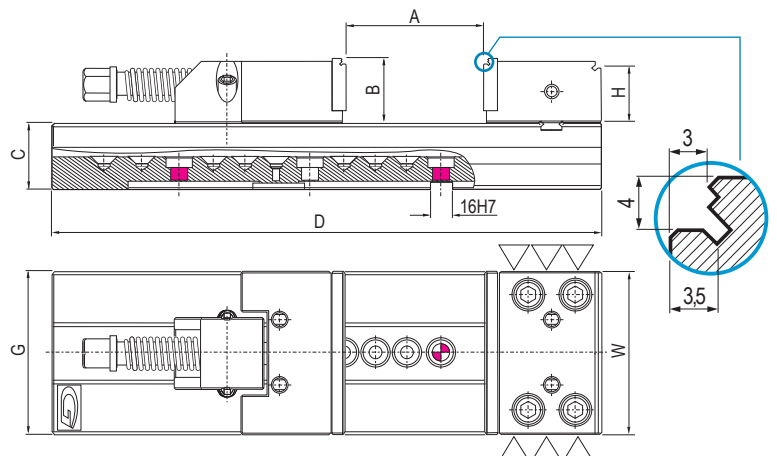
Dotazione standard:

- 1 arresto laterale Art. 370
 - 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
 - 1 chiave a pipa Art. 375 ■ 1 chiave a "T" Art. 376
- Extra per ogni foro calibrato (tolleranza F7) - MAN-010-STD : euro 110,00
 Extra per ogni chiavevitta (tolleranza H7) - MAN-020-STD : euro 110,00



Standard equipment:

- 1 workstop Art. 370
 - 1 pair of positioning key-nuts for 16 mm slot Art. 297
 - 1 box wrench Art. 375 ■ 1 T-wrench Art. 376
- Extra charge for each calibrated hole (F7 tolerance) - MAN-010-STD : euro 110,00
 Extra charge for each calibrated key nut (F7 tolerance) - MAN-020-STD : euro 110,00


 Vedi gruppo 4 per gamma completa accessori
 See group 4 for complete range of accessories

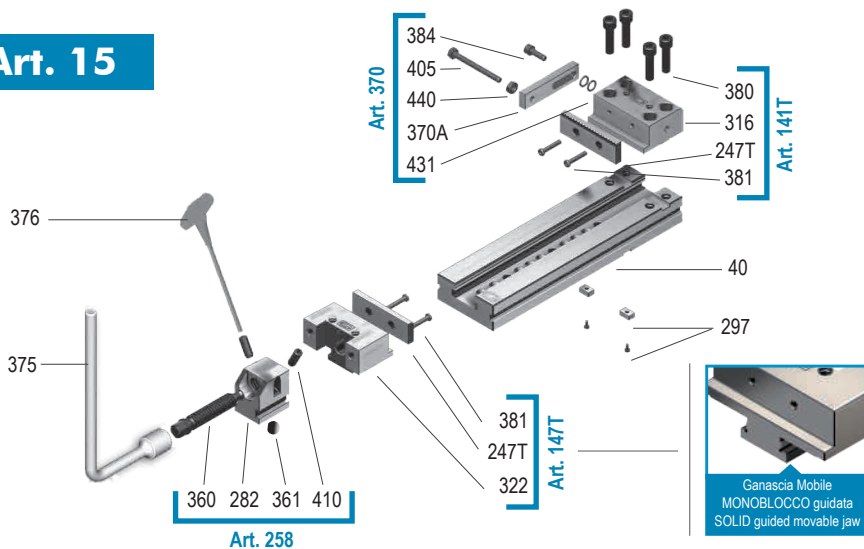
	5 40 kN					6 40 kN						
A	200	300	400	500	600	200	300	400	500	600	700	800
W	170					195						
B	65					80						
C	70					78						
D	495	595	695	795	895	535	635	735	835	935	1035	1135
G	170					195						
kg	62	67	72	77	82	88	98	108	118	128	138	148
Cod.	1.15.52000	1.15.53000	1.15.54000	1.15.55000	1.15.56000	1.15.62000	1.15.63000	1.15.64000	1.15.65000	1.15.66000	1.15.67000	1.15.68000
€	1.846	2.210	2.582	2.946	3.317	2.763	3.224	3.684	4.144	4.603	5.073	5.524

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

4.31.3R50C		4.31.3R60C										
Art. 313R	155		176									
	53		68									
1.65.57200		1.65.67200										
Art. 247	146		194									
2.21.85000		2.21.86000										
Art. 218	346		589									
1.24.7G500		1.24.7G600										
Art. 247G	297		387									
Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41											
€	2.229	2.593	2.965	3.329	3.699	3.053	3.515	3.974	4.434	4.892	5.364	5.815

StandardMatic VISES


Centralina Pneumoidraulica Art.393/394/395 (EXTRA)
 Pneumohydraulic Power Unit Art.393/394/395 (EXTRA)

Art. 15


Art.	Pag.	Art.	Pag.
40	1.24	380	4.28
247T	4.11	381	4.28
282	4.36	384	4.28
297	4.34	405	4.35
316	4.30	410	4.36
322	4.30	431	4.28
360	4.36	440	4.28
361	4.36	-	-
370A	4.35	-	-
375	4.35	-	-
376	4.35	-	-

Morse e Cubi / Vises & Vise Towers

StandardFLEX


 Precisione / Accuracy
 $\pm 0,02\text{mm}$

 Durezza / Hardened
HRC 58 \pm 2

La morsa più evoluta!
 The most recent vise!

CARATTERISTICHE & VANTAGGI

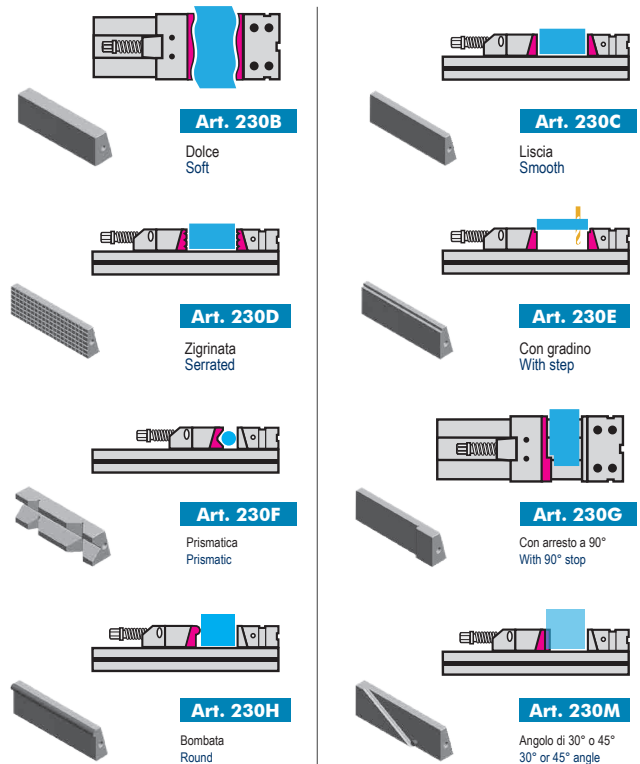
- ✓ USURA INESISTENTE
- ✓ RAPIDITA' DEI SERRAGGI
- ✓ MODULARITA' & VERSATILITA'
- ✓ PRECISIONI $\pm 0,02\text{ mm}$
- ✓ RIGIDITA' & SICUREZZA
- ✓ DESIGN COMPATTO E MANEGGEVOLEZZA

Si rimanda a quanto esposto a pag. 1.4 e 1.5

TECHNICAL FEATURES & ADVANTAGES

- ✓ NO WEAR
- ✓ QUICK CLAMPING
- ✓ MODULARITY & VERSATILITY
- ✓ HIGHEST ACCURACIES $\pm 0,02\text{ mm}$
- ✓ RIGIDITY & SAFETY
- ✓ SPACE SAVING DESIGN & HANDY

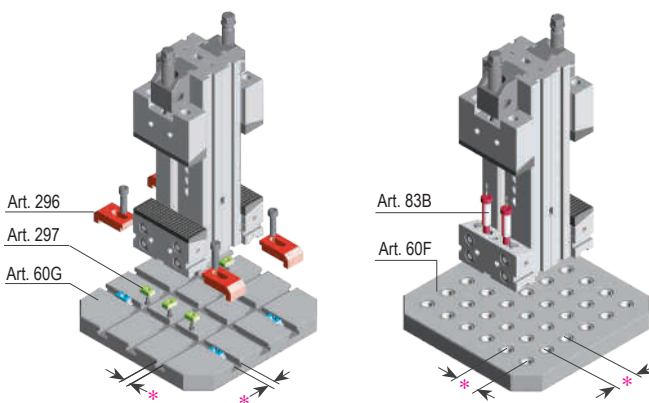
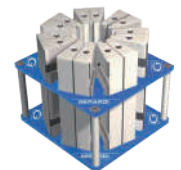
See pag. 1.4 and 1.5 (STANDARD series vises)


PIASTRE GANASCE DISCENDENTI INTERCAMBIABILI MANUALMENTE
 PULL DOWN JAW PLATES INTERCHANGEABLE BY HAND

Portapiastre The Rack

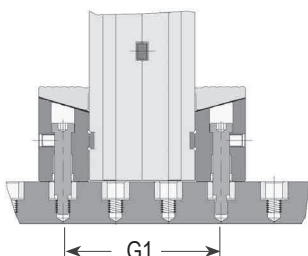
 Completo di piastre ganasce a cambio rapido a gradino Art.230E
 Complete of quick change step jaw plates Art.230E

Vedi Pag. 4.22 - See Page.4.22



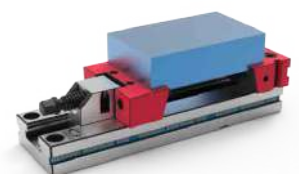
*** Cava / T slot = 16 mm**
 Ancoraggio e posizionamento
 con staffe e chivette
 Positioning and clamping through vise clamps

*** Passo / Pitch = 50 mm**
 Ancoraggio e posizionamento
 su reticolo
 Grid clamping and positioning



Tipo morsa Vise type	3	4	4	5
G1 mm	150	200	250	

Coda di Rondine Dove Tail



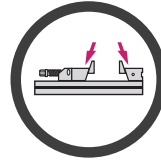
Rimuovendo le piastre ganasce è possibile sfruttare l'inclinazione a 15° del corpo per serrare il particolare, prelavando la faccia inferiore del particolare ottenendo così un sistema ad incastro irreversibile.

By taking off the jaw plates, it is possible to exploit the body inclination of 15° to clamp the workpiece and pre-machine the lower surface thus obtaining an irreversible dovetail system.

Le morse GERARDI della serie Standardflex sono un'evoluzione della morsa Standard. La loro caratteristica principale è la sostituzione rapida delle piastre ganasce che avviene manualmente e senza l'ausilio di alcun utensile, questo è possibile grazie al sistema Perno-molla, che consente un diverso utilizzo della morsa in tempi ridottissimi.

Grazie al sistema a Pettine di rigatura prismatica delle piastre ganasce, risulta migliorato anche l'effetto discendente che durante la fase di serraggio, trascina il pezzo contro lo slittone garantendo anche una notevolissima precisione di riposizionamento.

The GERARDI vises of the StandardFLEX series are an evolution of the Standard vise series. Their main characteristic is the quickest jaw plate hand substitution without any tool. This is possible thanks to the new design with pin with spring which increases the standard vise versatility while the prismatic grooves allow a perfect repositioning accuracy (within microns!!!).



SCAN IT TO WATCH THE

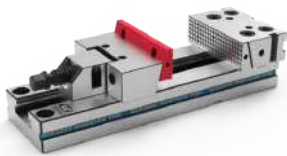


VIDEO PRESENTATION



Dotata del geniale sistema a pettine per sostituire rapidamente la piastra ganasce discendente

Innovative Comb system for quick pull-down jaw plate change



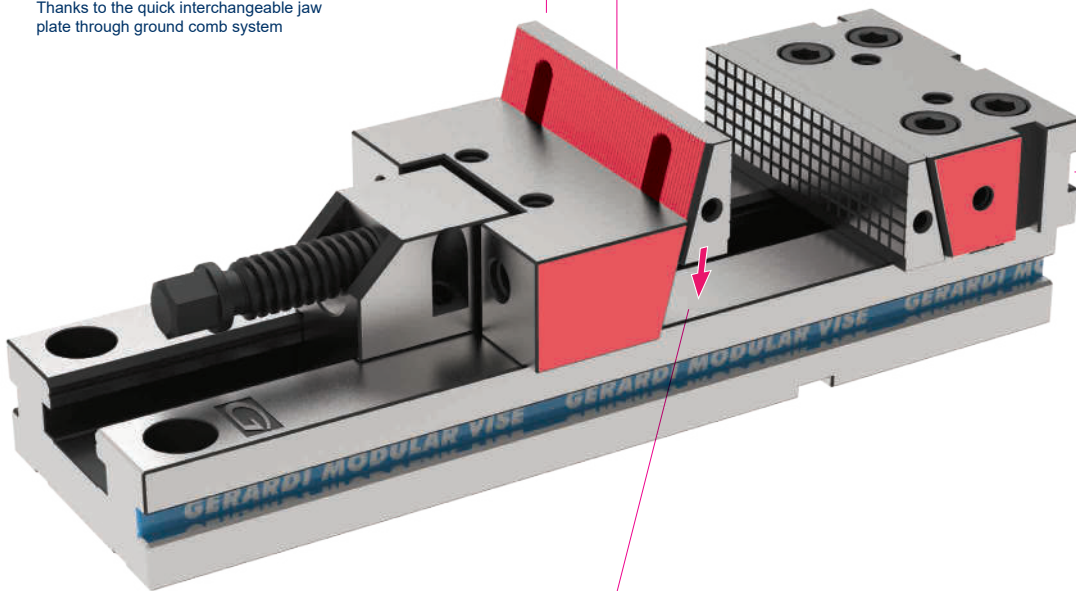
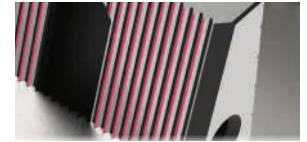
Riconfigurazione Rapidissima Quickest Vise Resetting

Grazie alla piastra ganasce intercambiabile manualmente tramite sistema a pettine

Thanks to the quick interchangeable jaw plate through ground comb system

Altissima Ripetibilità di Posizionamento Highest Repositioning Accuracy $\pm 0,005\text{mm}$

Veloce e preciso grazie alla forma rettificata del sistema a pettine
Quick and accurate jaw plate thanks the grid shape of the comb system



Effetto discendente Pull Down Action

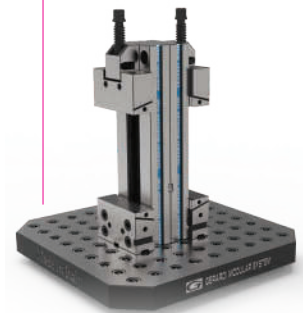
Effetto discendente amplificato e migliorato e migliore protezione dai trucioli grazie al sistema a pettine.

Increased and better pull down action and better protection from chips thanks to the comb system

Montaggio Verticale Vertical Mounting

Montaggio in verticale di due morse StandardFlex contrapposte su piani a reticolo $\varnothing 16\text{mm}$

Example of vertical mounting of 2 StandardFlex vises back to back on grid base $\varnothing 16 - 50\text{mm Pitch}$



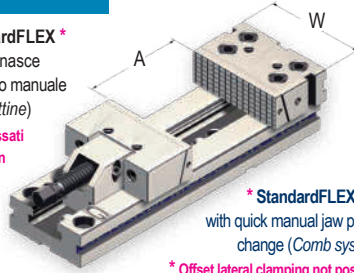
Tipo (grandezza) morsa / Vise type (size)

	kN	1 16 kN	2 25 kN	3 30 kN	4 30 kN				
Apertura massima / Maximum spread	A	100	150	200	300	200	300	400	500
	W	96	121	146		171			
	B	28	38	48		58			
	C	35	40	50		58			
	D	270	345	420	520	455	555	655	755
	G	75	95	125		145			
	kg	6.8	12.9	25.5	29	37	42	47	52
	Cod.	1.1A.10000	1.1A.20000	1.1A.32000	1.1A.33000	1.1A.42000	1.1A.43000	1.1A.44000	1.1A.45000
	€	742	925	1.112	1.283	1.414	1.555	1.696	1.804

Art. 1A

Morsa **StandardFLEX** *
 con piastre ganasce
 a cambio rapido manuale
 (Sistema a pettine)

* Serraggi disassati
 lateralmente non
 possibili.



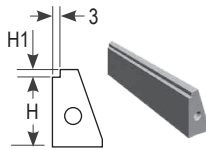
* **StandardFLEX** vise
 with quick manual jaw plates
 change (Comb system)

* Offset lateral clamping not possible

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !
Art. 230E

Piastra ganasce intercambiabile
 Interchangeable jaw plate

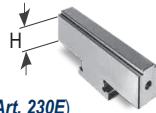
Vedi pagina 4.21 per altezze disponibili
 See page 4.21 for available height



Cod.	4.23.0E101	4.23.0E201	4.23.0E301	4.23.0E401
€	95	105	128	158
H	23	33	43	53
H1	5	5	5	5

Art. 212

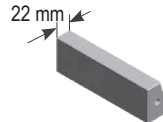
Ganasce mobile intermedia
 (da usare con Art. 230E)
 Intermediate movable jaw (to be used with Art. 230E)



Cod.	1.21.21000	1.21.22000	1.21.23000	1.21.24000
€	105	128	165	208

Art. 230B

Piastra ganasce intercambiabile dolce
 Soft interchangeable jaw plate



Cod.	4.23.0B101	4.23.0B201	4.23.0B301	4.23.0B401
€	79	86	101	129

Art. 230F

Piastra ganasce intercambiabile prismatica
 Prismatic interchangeable jaw plate



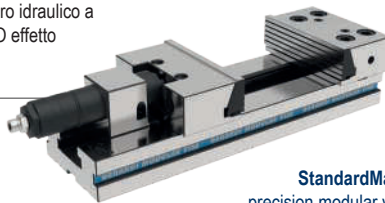
Cod.	4.23.0F101	4.23.0F201	4.23.0F301	4.23.0F401
€	127	136	162	205

Art. 1AE

NEW
2024

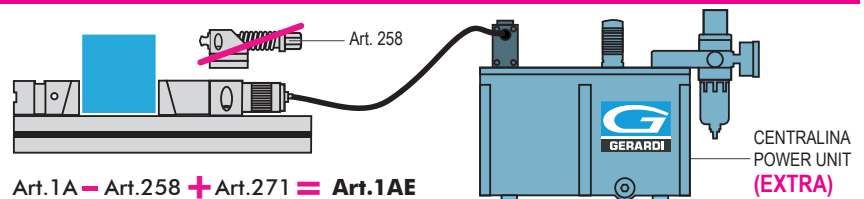
Morsa modulare **StandardMatic**
 con cilindro idraulico a
 SINGOLO effetto

Art.271



StandardMatic
 precision modular vise
 with SINGLE effect
 hydraulic cylinder

Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41							
€	990	1.186	1.391	1.562	1.730	1.871	2.012	2.119

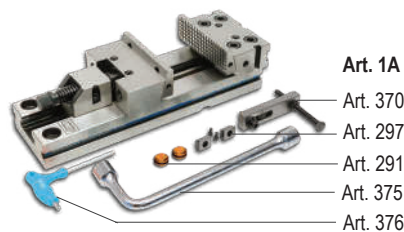
MORSE StandardMatic


Art. 1A - Art. 258 + Art. 271 = Art. 1AE

Dotazione standard:

- 1 arresto laterale Art. 370
- 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
- 2 tappi Art. 291 ■ 1 chiave a pipa Art. 375 ■ 1 chiave a "T" Art. 376

Fori rettificati e calibrati con tolleranza F7 già inclusi nel prezzo

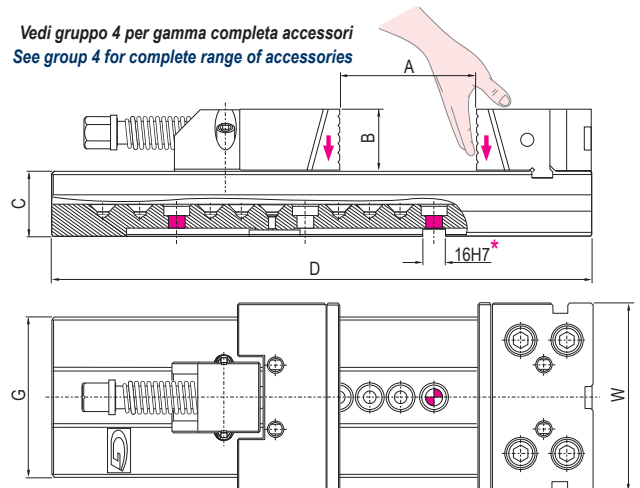


Standard equipment:

- 1 workstop Art. 370
- 1 pair of positioning key-nuts for 16 mm slot Art. 297
- 2 inserts Art. 291 ■ 1 box wrench Art. 375 ■ 1 T-wrench Art. 376

Ground calibrated holes F7 tolerance already included in the price

Vedi gruppo 4 per gamma completa accessori
 See group 4 for complete range of accessories



* Versione normale: Cava da 16H7 e fori calibrati Ø8F7 (t.1) - Ø16F7 (t. 2-3-4-5-6)
 * Normal version: 16H7 slot and calibrated holes Ø8F7 (t.1) - Ø16F7 (t. 2-3-4-5-6)

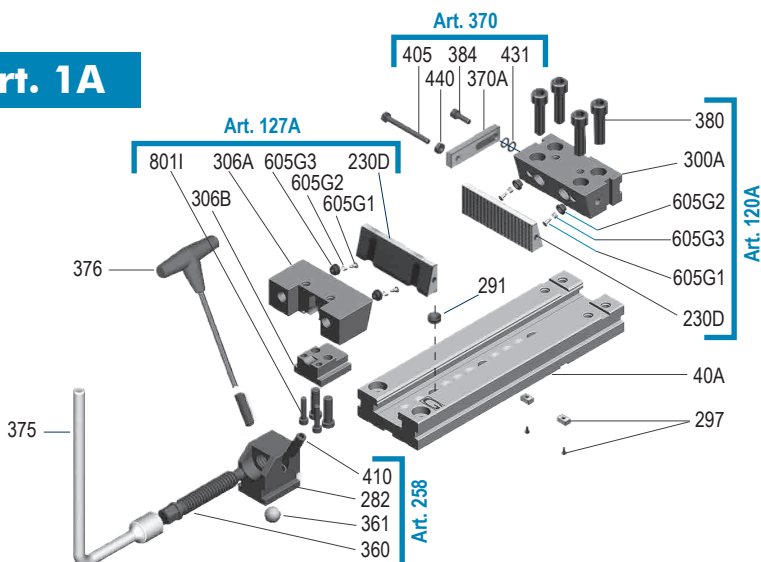
	5 40 kN					6 40 kN						
A	200	300	400	500	600	200	300	400	500	600	700	800
W	196					296						
B	63					78						
C	70					78						
D	495	595	695	795	895	535	635	735	835	935	1035	1135
G	170					195						
kg	64	69	74	79	84	95	105	115	125	135	145	155
Cod.	1.1A.52000	1.1A.53000	1.1A.54000	1.1A.55000	1.1A.56000	1.1A.62000	1.1A.63000	1.1A.64000	1.1A.65000	1.1A.66000	1.1A.67000	1.1A.68000
€	1.846	2.210	2.582	2.946	3.317	2.763	3.224	3.684	4.144	4.603	5.073	5.524

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

4.23.0E501		4.23.0E601										
Art. 230E	223	Art. 230E	296									
H	53	H	68									
H1	10	H1	10									
1.21.25000		1.21.26000										
Art. 212	250	Art. 212	346									
4.23.0B501		4.23.0B601										
Art. 230B	180	Art. 230B	236									
4.23.0F501		4.23.0F601										
Art. 230F	289	Art. 230F	382									
Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41											
€	2.229	2.593	2.965	3.329	3.699	3.053	3.515	3.974	4.434	4.892	5.364	5.815

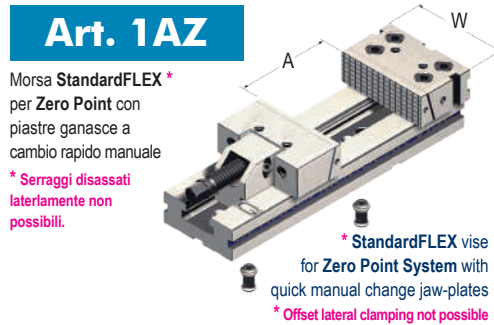
StandardMatic VISES

Centralina Pneumoidraulica Art.393/394/395 (EXTRA)
 Pneumohydraulic Power Unit Art.393/394/395 (EXTRA)

Art. 1A


Art.	Pag.	Art.	Pag.
40A	1.24	376	4.35
230D	4.21	380	4.28
282	4.36	384	4.28
291	4.35	405	4.35
297	4.34	410	4.36
300A	4.30	431	4.28
306A	4.30	440	4.28
306B	4.30	605G1	4.22
360	4.36	605G2	4.22
361	4.36	605G3	4.22
370A	4.35	801I	5.61
375	4.35	-	-

Tipo (grandezza) morsa / Vise type (size)	kN	1*		2		3		4	
		16 kN	25 kN	30 kN	30 kN	30 kN	30 kN	30 kN	30 kN
Apertura massima / Maximum spread	A	100	150	200	300	200	300	400	500
Art. 1AZ	W	96	121	146		171			
	B	28	38	48		58			
	C	35	40	50		58			
	D	270	345	420	520	455	555	655	755
	G	75	95	125		145			
	kg	7.3	13.2	26.2	29.7	37.9	43	48.1	53.2
	Cod.	1.1A.Z1000	1.1A.Z2000	1.1A.Z3200	1.1A.Z3300	1.1A.Z4200	1.1A.Z4300	1.1A.Z4400	1.1A.Z4500
	€	879	1.063	1.247	1.417	1.552	1.692	1.833	1.942


AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

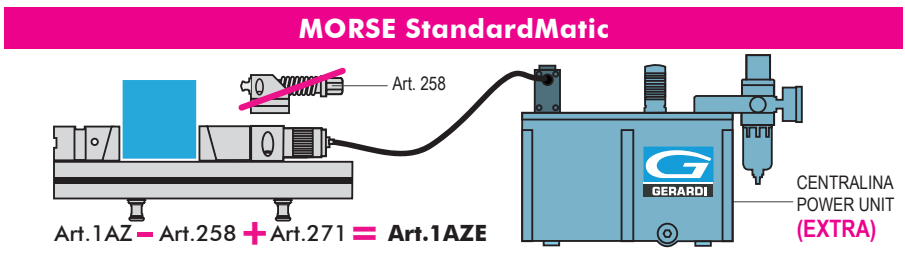
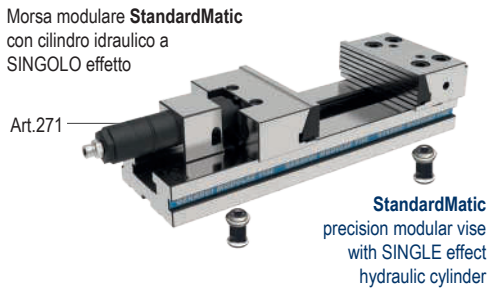
Art. 230E	Cod.	4.23.0E101	4.23.0E201	4.23.0E301	4.23.0E401
		€	95	105	128
	H	23	33	43	53
	H1	5	5	5	5

Art. 212	Cod.	1.21.21000	1.21.22000	1.21.23000	1.21.24000
		€	105	128	165

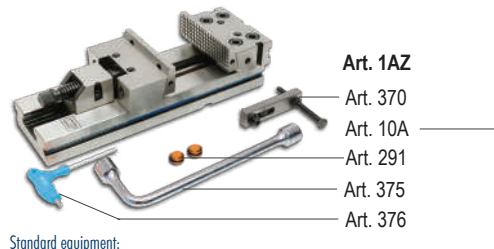
Art. 230B	Cod.	4.23.0B101	4.23.0B201	4.23.0B301	4.23.0B401
		€	79	86	101

Art. 230F	Cod.	4.23.0F101	4.23.0F201	4.23.0F301	4.23.0F401
		€	127	136	162

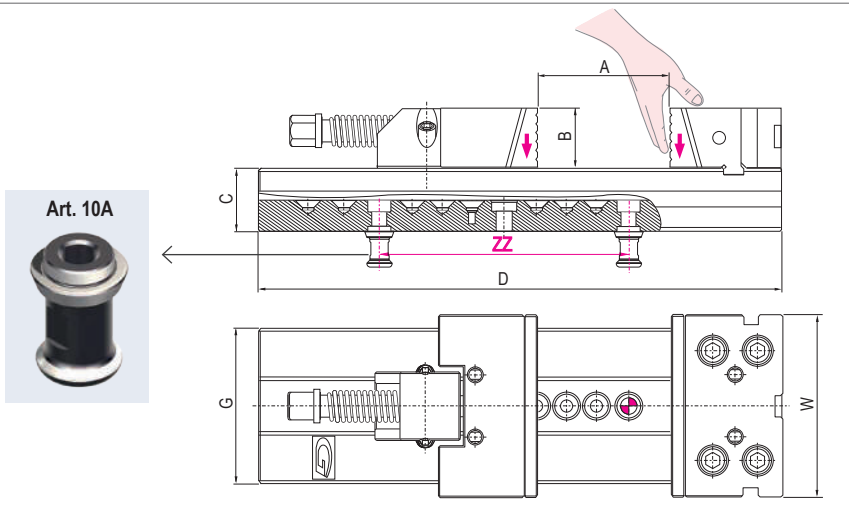
Art. 1AZE	Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41						
		€	1.126	1.323	1.528	1.699	1.867	2.008



- Dotazione standard:
- 1 arresto laterale Art. 370
 - 2 tiranti Art. 10A
 - 2 tappi Art. 291
 - 1 chiave a pipa Art. 375
 - 1 chiave a "T" Art. 376



- Standard equipment:
- 1 workstop Art. 370
 - 2 pullstuds Art. 10A
 - 2 inserts Art. 291
 - 1 box wrench Art. 375
 - 1 T-wrench Art. 376



* Per morsa Tipo 1 sedi per tiranti 10A (tipo1) con interasse dei fori 150mm - Quote interassi tiranti ZZ a pag.1.24
 For Vise T.1 - 10A pull studs positioning holes (T.1) with 150mm pitch - See on pag. 1.24 for pull studs pitches ZZ

Vedi gruppo 4 per gamma completa accessori
 See group 4 for complete range of accessories

	5 40 kN					6 40 kN						
	A	200	300	400	500	600	200	300	400	500	600	700
W	196					296						
B	63					78						
C	70					78						
D	495	595	695	795	895	535	635	735	835	935	1035	1135
G	200					300						
kg	65.3	70.3	75.3	80.3	85.3	97	107	117	127	137	147	157
Cod.	1.1A.Z5200	1.1A.Z5300	1.1A.Z5400	1.1A.Z5500	1.1A.Z5600	1.1A.Z6200	1.1A.Z6300	1.1A.Z6400	1.1A.Z6500	1.1A.Z6600	1.1A.Z6700	1.1A.Z6800
€	1.983	2.347	2.717	3.085	3.454	2.901	3.361	3.820	4.280	4.738	5.209	5.661

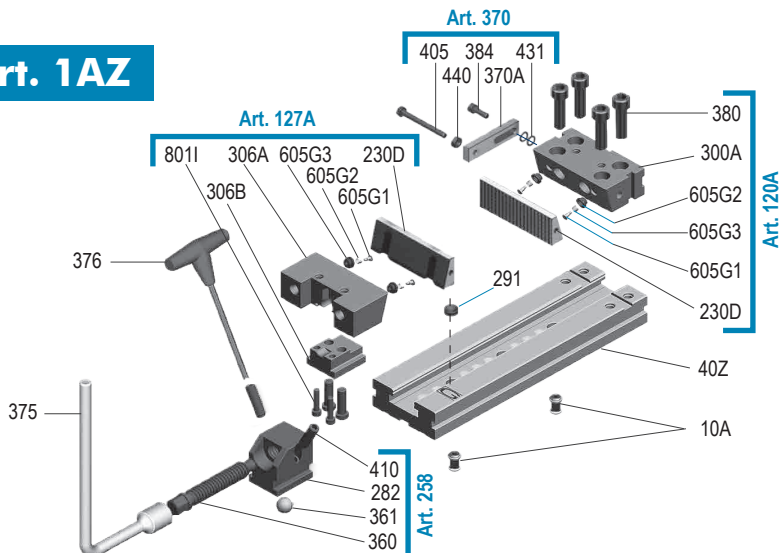
UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art.	Price	Image	Art.	Price
Art. 230E	223		Art. 230E	223
H	53		H	53
H1	10		H1	10
Art. 212	250		Art. 212	250
Art. 230B	180		Art. 230B	180
Art. 230F	289		Art. 230F	289
Art. 230B	236		Art. 230B	236
Art. 230F	382		Art. 230F	382

Cod.	Price	Price	Price	Price	Price	Price	Price	Price	Price	Price	Price	
€	2.366	2.729	3.099	3.467	3.836	3.190	3.652	4.111	4.572	5.029	5.501	5.951

Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41

StandardMatic VISES
Centralina Pneumoidraulica Art.393/394/395 (EXTRA)
 Pneumohydraulic Power Unit Art.393/394/395 (EXTRA)

Art. 1AZ


Art.	Pag.	Art.	Pag.
10A	9.31	376	4.35
40Z	1.24	380	4.28
230D	4.21	384	4.28
282	4.36	405	4.35
291	4.35	410	4.36
300A	4.30	431	4.28
306A	4.30	440	4.28
306B	4.30	605G1	4.22
360	4.36	605G2	4.22
361	4.36	605G3	4.22
370A	4.35	801I	5.61
375	4.35	-	-

Tipo (grandezza) / Type (size)
Art. 40

 Slittone base
 serie **STD** senza
 alcuna dotazione

 Vise base
STD series
 supplied without any accessory

	1	2	3		4			
C	35	40	50		58			
D	270	345	420	520	455	555	655	755
G	75	95	125		145			
K	-	-	100		100			
N	2	3	3	4	3	4	5	6
U	111	111	122,5		129			
Z	100	100	100		100			
kg	3,8	7,3	15,1	18,7	20,6	25,2	29,7	34,5
Cod.	1.80.10270	1.80.20345	1.80.30420	1.80.30520	1.80.40455	1.80.40555	1.80.40655	1.80.40755
€	356	450	537	702	668	844	1.022	1.154

Versione normale: Cave da 16mm (H7) - Versione opzionale: Fori rettificati e calibrati con tolleranza F7 - Extra per ogni foro calibrato (Tolleranza F7): €102,00

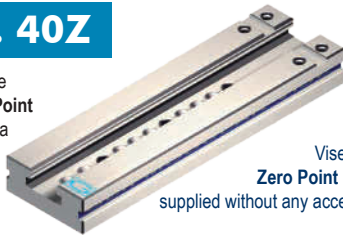
Art. 40A

 Slittone base serie
StandardFLEX senza
 alcuna dotazione

 Vise base
StandardFLEX series
 supplied without any accessory

	1	2	3	4	5	6	7	8
kg	3,8	7,3	15,1	18,7	20,6	25,2	29,7	34,5
Cod.	1.40.A1000	1.40.A2000	1.40.A3200	1.40.A3300	1.40.A4200	1.40.A4300	1.40.A4400	1.40.A4500
€	445	560	671	875	837	1.054	1.279	1.440

Art. 40Z

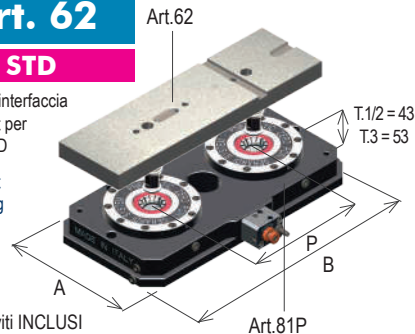
 Slittone base
 serie **Zero Point**
 senza alcuna
 dotazione

 Vise base
Zero Point series
 supplied without any accessory

	1	2	3	4	5	6	7	8
ZZ	150*	200	200	200	200	200	300	300
kg	4	8	15,5	19	21	25,5	30	35
Cod.	1.40.Z1000	1.40.Z2000	1.40.Z3200	1.40.Z3300	1.40.Z4200	1.40.Z4300	1.40.Z4400	1.40.Z4500
€	493	588	673	838	806	980	1.162	1.292

* Per morsa Tipo 1 sedi per tiranti 10A (tipo1) con interasse dei fori 150mm.

PIASTRE D'INTERFACCIA ZERO POINT PER MORSE STD
Art. 62
STD

 Piastra di interfaccia
 Zero Point per
 morse STD

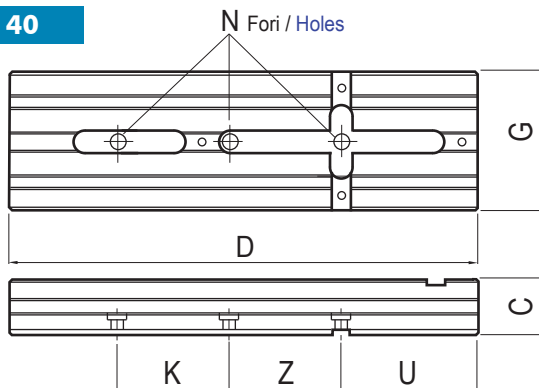
 Zero Point
 connecting
 plate for
 STD vises

 Tiranti e viti **INCLUSI**
 Pull Studs and screws **INCLUDED**

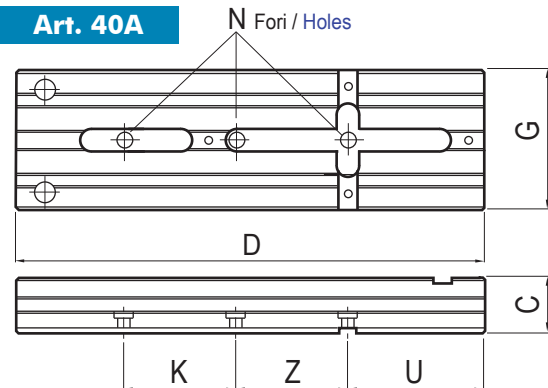
	1	2	3		4			
C1	28	28	33		33			
UU	86	86	97,5	97,5	104	104	104	104
ZZ	200	200	200	250	200	250	200x2	200x2
kg	4,5	7,2	13,5	16,7	17	20,8	24,4	28,2
Cod.	1.62.11000	1.62.21500	1.62.32000	1.62.33000	1.62.42000	1.62.43000	1.62.44000	1.62.45000
€	181	228	269	353	337	427	517	577
A	200	200	200	200	200	200	200	200
B	400	400	400	500	400	500	600	600
Art. 665	Tipo / Type 1		Tipo / Type T.2					
P	200	200	200	250	200	250	200x2	200x2
kg	31	29	29	35	29	35	42	42

Art. 81P

 Piastra Zero Point in acciaio con montaggio incassato
 Zero Point steel plate built-in mounting

	1	2	3	4	5	6	7	8
Cod.	9.81.P12040S2	9.81.P2040S2	9.81.P2040S2	9.81.P2050S2	9.81.P2040S2	9.81.P2050S2	9.81.P2060S3	9.81.P2060S3
€	2.114	2.724	2.724	2.793	2.793	2.793	3.972	3.972

Art. 40

 Versione normale: Cave da 16 mm (H7)
 Normal version: 16 mm slots (H7)

Art. 40A

 Versione normale: Cave da 16H7 e fori calibrati Ø8F7 (t.1) - Ø16F7 (t. 2-3-4-5-6)
 Normal version: 16H7 slot and calibrated holes Ø8F7 (t.1) - Ø16F7 (t. 2-3-4-5-6)

	5					6						
C	70					78						
D	495	595	695	795	895	535	635	735	835	935	1035	1135
G	170					195						
K	100					100						
N	2	3	4	5	6	4	5	6	7	8	9	10
U	145					152						
Z	100					100						
kg	32,6	39,2	45,8	52,5	59	47	56	65	74	83	61	100
Cod.	1.80.50495	1.80.50595	1.80.50695	1.80.50795	1.80.50895	1.80.60535	1.80.60635	1.80.60735	1.80.60835	1.80.60935	1.80.60035	1.80.60135
€	887	1.243	1.597	1.951	2.299	1.330	1.771	2.213	2.652	3.097	3.540	3.977

Normal version: 16mm slots (H7) - Optional version: Ground calibrated holes F7 tolerance - Extra for each calibrated hole (F7 Tolerance): €102,00

kg	32,6	39,2	45,8	52,5	59	47	56	65	74	83	91	100
Cod.	1.40.A5200	1.40.A5300	1.40.A5400	1.40.A5500	1.40.A5600	1.40.A6200	1.40.A6300	1.40.A6400	1.40.A6500	1.40.A6600	1.40.A6700	1.40.A6800
€	1.111	1.552	1.995	2.436	2.876	1.663	2.213	2.764	3.317	3.870	4.420	4.971

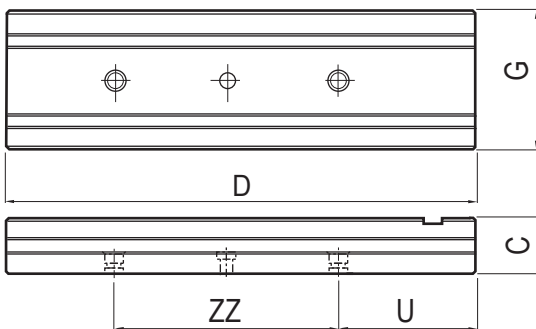
ZZ	200	200	300	300	300	300	300	300	300	300	300x2	300x2
kg	33	40	46	53	59	47	56	65	74	83	91	100
Cod.	1.40.Z5200	1.40.Z5300	1.40.Z5400	1.40.Z5500	1.40.Z5600	1.40.Z6200	1.40.Z6300	1.40.Z6400	1.40.Z6500	1.40.Z6600	1.40.Z6700	1.40.Z6800
€	1.024	1.380	1.733	2.086	2.422	1.466	1.909	2.349	2.792	3.233	3.675	4.114

* For Vise T.1 - 10A pull stud positioning holes (T.1) with 150mm pitch

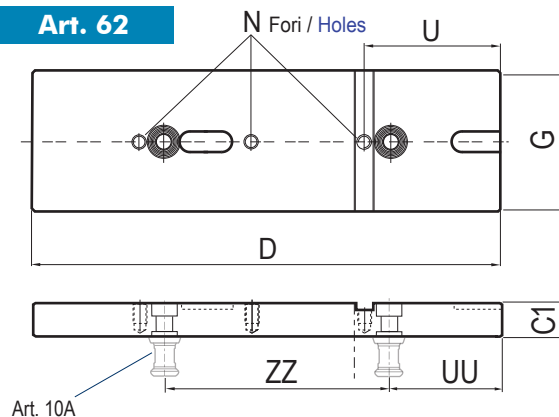
ZERO POINT CONNECTING PLATES FOR STD VISES

C1	38					38						
UU	120					127						
ZZ	250	200	200x2	300x2	300x2	250	200x2	200x2	300x2	300x2	400x2	400x2
kg	25	30	35	40	45	31	36,7	42,5	48,3	54	59,8	65,6
Cod.	1.62.52000	1.62.53000	1.62.54000	1.62.55000	1.62.56000	1.62.62000	1.62.63000	1.62.64000	1.62.65000	1.62.66000	1.62.67000	1.62.68000
€	449	624	804	974	1.151	666	885	1.112	1.330	1.549	1.768	1.994
A	200	200	200	200	200	250	250	250	250	250	250	250
B	500	400	600	800	800	500	600	600	800	800	1000	1000
Art. 665	Tipo / Type T.2					Tipo / Type 3						
P	250	200	200x2	300x2	300x2	250	200x2	200x2	300x2	300x2	400x2	400x2
kg	35	29	42	59	59	-	-	-	-	-	-	-
Cod.	9.81.P2050S2	9.81.P2040S2	9.81.P2060S3	9.81.P2080S3	9.81.P2080S3	9.81.P32550S2	9.81.P32560S3	9.81.P32560S3	9.81.P32580S3	9.81.P32580S3	9.81.P325100S3	9.81.P325100S3
€	2.793	2.724	3.972	4.142	4.142	3.518	5.164	5.164	5.277	5.277	5.447	5.447

Art. 40Z

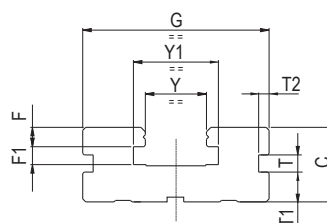
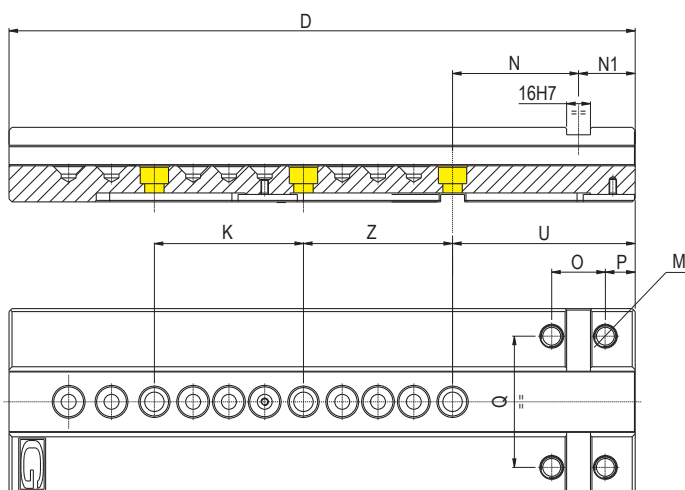
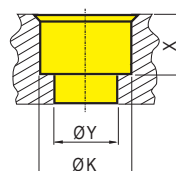

 Versione normale: 2 o 3 fori filettati per tiranti Art. 10A - Tipo 2
 Normal version: 2-3 holes threaded for pull studs Art. 10A - Type 2

Art. 62



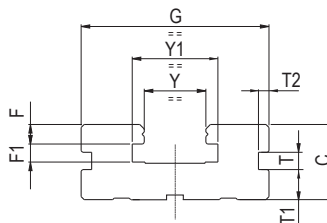
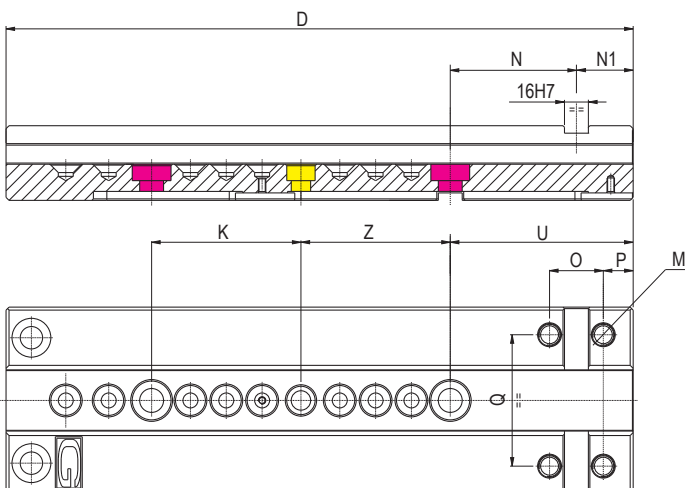
Tipo (grandezza) morsa / Vise type (size)		1	2	3	4				
Tolleranza / Tolerance									
-0,02	C	35	40	50	58				
-	D	270	345	420	520	455	555	655	755
-0,02	F	10	12	13	15				
+0,02	F1	10	10	12	18				
-0,02	G	75	95	125	145				
+0,02	Y	21	28	41	51				
-	Y1	31	41	57	70				
-	M	M10	M12	M14	M16				
-	N	76	76	84,5	89				
-	N1	35	35	38	40				
-	O	32	32	36	36				
-	P	19	19	20	22				
-	Q	50	62	88	100				
-	T	9,5	9,5	11,5	11,5				
-	T1	15	15	20	20				
-	T2	5	5	7	7				
-	U	111	111	122,5	129				
-	U1	111	111	122,5	129	229			
-	K	-	-	100	100				
-	Z	100	100	100	100				

Art. 40

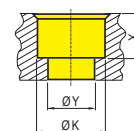
 Slittone base serie **STD** / Vise base **STD** series

Dettaglio foro per vite TCEI / TCEI screw hole details


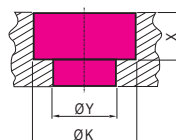
Type	1	2	3	4	5	6
X	4,5	5,5	12,5	12,5	17	17
ØY	6,5	8,5	13	13	17	17
ØK	10,5	13,5	19	19	26	26

Art. 40A

 Slittone base serie **StandardFLEX** / Vise base **StandardFLEX** series

Dettaglio foro per vite TCEI
TCEI screw hole details
TIPO 3 - TYPE 3

Type	3
X	8
ØY	13
ØK	19

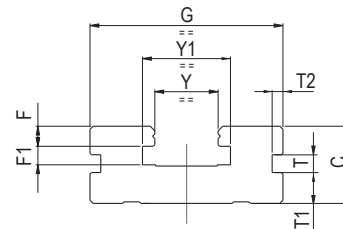
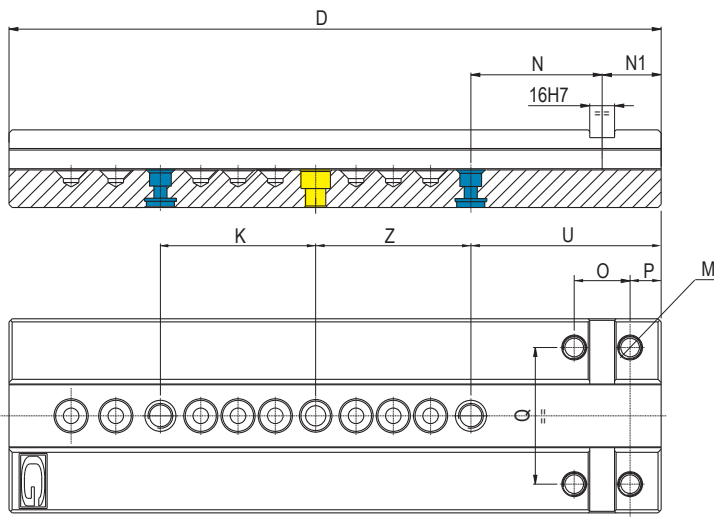
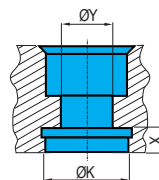

 Vedi tabella TCEI Art.40 per altre tipologie
 See the TCEI chart of Art.40 for all other types

Dettaglio foro per vite calibrata / Calibrated screw hole details


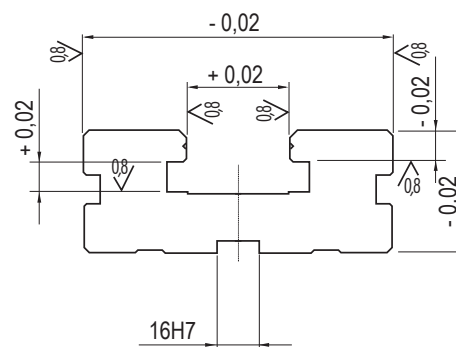
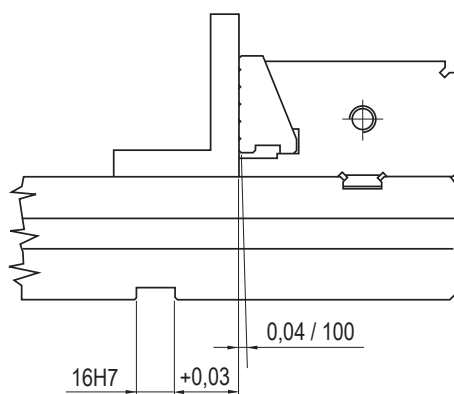
Type	1	2	3	4	5	6
X	4,5	5,5	8	11		
ØY	8F7	16F7	16	16F7		
ØK	13,5	21	21	25		

	5				6					
C	70				78					
D	535				635	735	835	935	1035	1135
F	20				20					
F1	18				18					
G	170				195					
Y	61				71					
Y1	80				91					
M	M20				M20					
N	100				107					
N1	45				45					
O	44				44					
P	23				23					
Q	120				133					
T	17,5				17,5					
T1	26				26					
T2	10				10					
U	145				152					
U1	145	245		152		252	152			
K	100				100					
Z	100				100					

Art. 40Z

 Slittone base serie **ZERO POINT** / Vise base **ZERO POINT** series

Dettaglio foro per Zero Point / Zero Point hole details


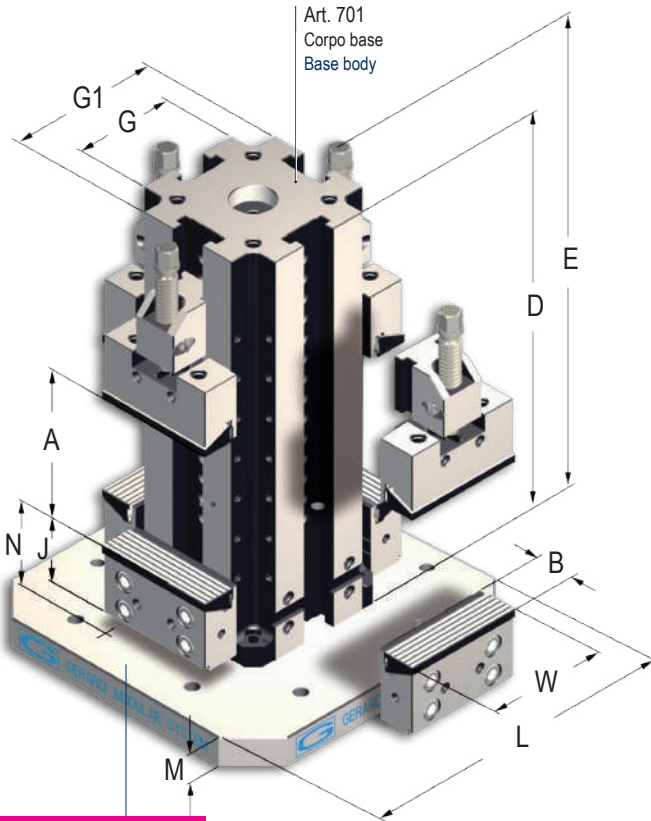
Type	1	2	3	4	5	6
X	6					
Ø Y	13					
Ø K	20					

 Tolleranze generiche per morse **XL** / **XL** vise generic tolerances


Tipo (grandezza) morsa / Vise type (size)	1	
	kN	16 kN
A	80	130
W	100	
B	30	
D	250	300
E	300	350
G	75	
G1	120	
J	77,9	
L	300	
M	33	
N	85	
kg	37	42
Cod.	3.70.00801	3.70.01301
€	2.280	2.441

Art. 700

Cubomorsa modulare standard in **monoblocco**
 Standard modular vise tower in **solid body**



Dotazione standard:

- 4 arresti laterali Art. 370
- 2 coppie di tasselli di posizionamento per cava da 16 mm Art. 297
- 1 chiave a pipa Art. 375
- 1 chiave a "T" Art. 376

Standard equipment:

- 4 workstops Art. 370
- 2 pairs of positioning key-nuts for 16 mm slot Art. 297
- 1 box wrench Art. 375
- 1 "T"- wrench Art. 376

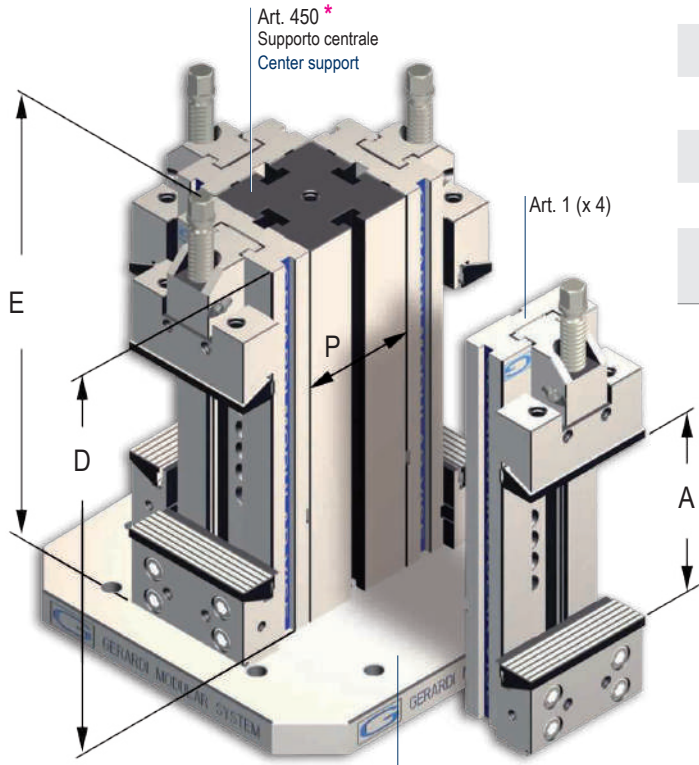
Art. 828A (extra)

Tipo (grandezza) morsa / Vise type (size)	1	
	kN	16 kN

Apertura massima / Maximum spread	A	100
	D	270 *
	E	320
	P	75 *
	kg	10
	Cod.	1.75.01000
	€**	3.338

Art. 750

Morse standard montate verticalmente
 N° 4 morse STD Art. 1+ N° 1 Art. 450
 Standard vises vertically mounted
 N° 4 vises STD Art. 1+ N° 1 Art. 450



Dotazione standard:

- 4 arresti laterali Art. 370
- 2 coppie di tasselli di posizionamento per cava da 16 mm Art. 297
- 1 chiave a pipa Art. 375
- 1 chiave a "T" Art. 376

Standard equipment:

- 4 workstops Art. 370
- 2 pairs of positioning key-nuts for 16 mm slot Art. 297
- 1 box wrench Art. 375
- 1 "T"- wrench Art. 376

Art. 828A (extra)

	2 25 kN		3 30 kN			4 30 kN				5 40 kN	6 40 kN
A	155	205	170	270	370	145	245	345	445	-	-
W	125		150			175				200	300
B	40		50			60				-	-
D	350	400	400	500	600	400	500	600	700	-	-
E	430	480	470	570	670	475	575	675	775	-	-
G	95		125			145				170	195
G1	160		190			230				*	*
J	77,9		89,4			96,9				*	*
L	350		400			450				*	*
M	33		38			38				-	-
N	85		102			111				-	-
kg	83	96	137	160	183	197	230	263	296	-	-
Cod.	3.70.01552	3.70.02052	3.70.01803	3.70.02803	3.70.03803	3.70.01454	3.70.02454	3.70.03454	3.70.04454	-	-
€	2.833	3.027	3.411	3.814	4.287	4.080	4.524	4.930	5.300	on req.	on req.

* Altre dimensioni a richiesta / Other dimensions on request

	2 25 kN	3 30 kN		4 30 kN				5 40 kN			6 40 kN		
A	150	200	300	200	300	400	500	200	300	400	300	400	500
D	345 *	420	520	455	555	655	755	495	595	695	635	735	835
E	345	450	550	455				-			-		
P	95 *	125		145				170			195		
kg	19	46		68				98			145		
Cod.	1.75.02000	1.75.03200	1.75.03300	1.75.04200	1.75.04300	1.75.04400	1.75.04500	1.75.05200	1.75.05300	1.75.05400	1.75.06300	1.75.06400	1.75.06500
€*	3.778	4.205	4.848	5.777	6.147	6.790	7.978	7.400	8.591	9.779	11.226	13.511	15.793

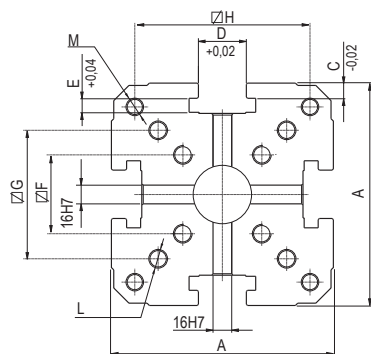
* Altre dimensioni a richiesta / Other dimensions on request



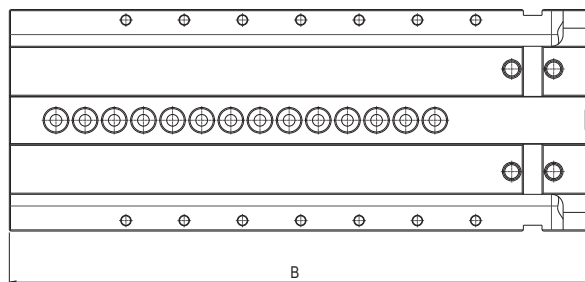
** Montaggio e allineamento ESCLUSI
Mounting and alignment EXCLUDED



Tipo (grandezza) / Type (size)



Art. 701

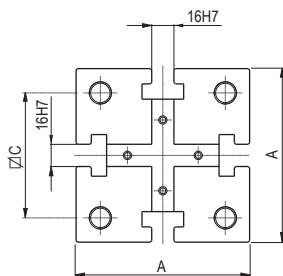


Senza alcuna dotazione
Without accessory equipment

Art. 701

Corpo slittone standard
Body for standard vise tower

Tipo (grandezza) / Type (size)



Art. 450

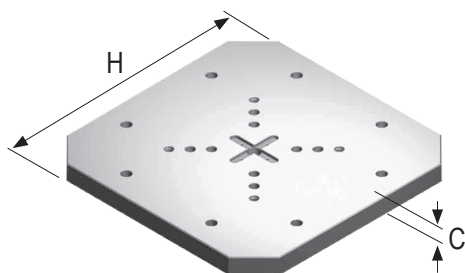


Senza alcuna dotazione
Without accessory equipment

Art. 450

Supporto centrale per montaggio morse modulari standard in verticale. Dolce.
Center support for vertical arrangement of standard modular vises. Soft.

Tipo (grandezza) / Type (size)



Art. 828A

STD

Piastra base per cubo-morsa personalizzata
(Bussola di centraggio Art. 852 compresa)
Head plate for vise-tower tailor made
(Centering bushing Art. 852 included)

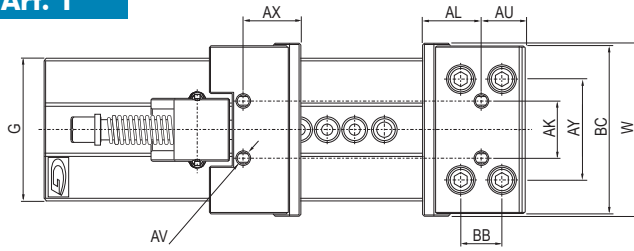
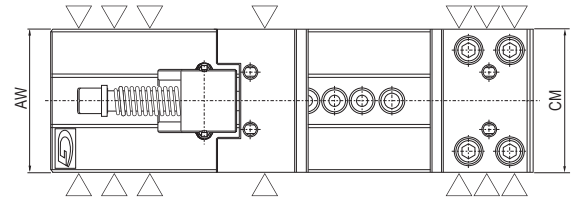
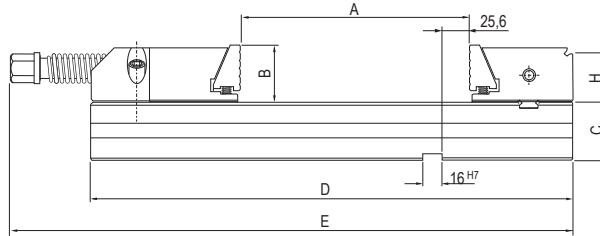
	1		2		3			4				5	6
A	120		160		190			200				*	*
B	250	300	350	400	400	500	600	400	500	600	700	*	*
C	10		12		13			15				20	20
D	21		28		41			51				61	71
E	10		10		12			18				18	18
F	40		54		70			80				80	
G	70		84		110			134				134	
H	-		120		150			200				210	
L	M12		M16		M16			M20				M20	*
M	-		Ø 13		Ø 13			Ø 13				Ø 13	
kg	25	30	64	73	92	115	138	135	168	200	232	*	
Cod.	1.70.10801	1.70.11301	1.70.11552	1.70.12052	1.70.11803	1.70.12803	1.70.10803	1.70.11454	1.70.12454	1.70.13454	1.70.14454	*	
€	1.151	1.368	1.438	1.695	1.728	2.264	2.893	2.175	2.764	3.307	3.801	on req.	on req.

*A richiesta / On request

	1	2	3		4				5			6		
A	75	95	125		145				170			195		
B	270	345	420	520	455	555	655	755	495	595	695	635	735	835
C	50	60	90		110				110			*		
D	M12	M16	M16		M16				M20			*		
kg	10	19	46		68				98			145		
Cod.	1.45.01000	1.45.02000	1.45.03420	1.45.03520	1.45.04455	1.45.04555	1.45.04655	1.45.04755	1.45.05495	1.45.05595	1.45.05695	1.45.06635	1.45.06735	1.45.06835
€	611	774	926	1.022	1.133	1.229	1.326	1.419	1.388	1.486	1.579	1.930	2.024	2.122

*A richiesta / On request

	1	2	3	4	5	6	7
C	33	33	38	38	38	38	38
H	300	350	400	450	500	630	800
kg	22	30	44,5	56,5	71	113	182
Cod.	1.82.8A100	1.82.8A200	1.82.8A300	1.82.8A400	1.82.8A500	1.82.8A600	1.82.8A700
€	1.076	1.146	1.262	1.473	1.780	2.273	2.519

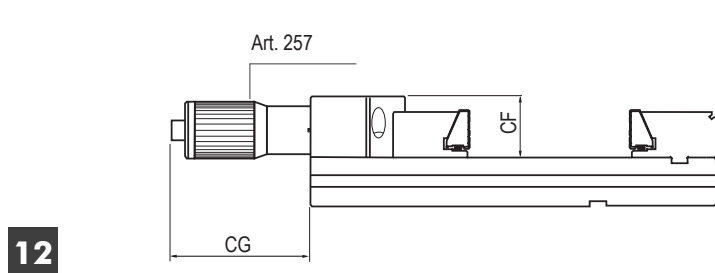
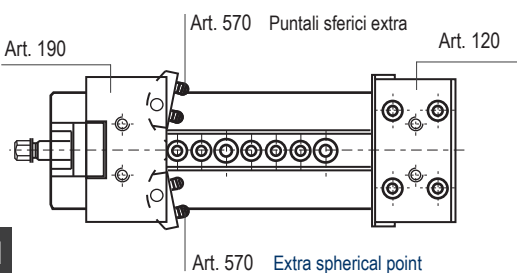
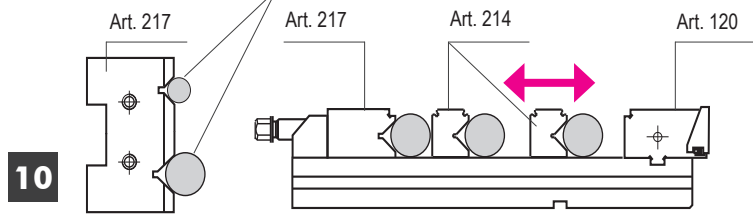
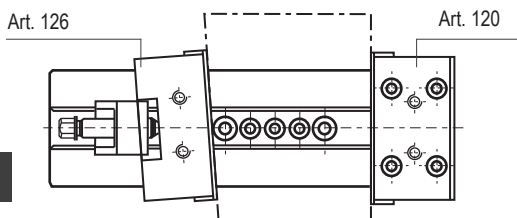
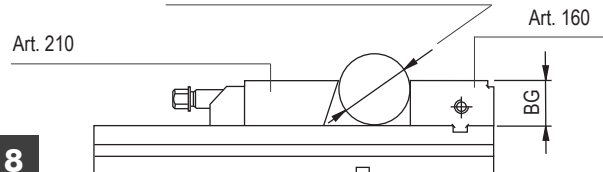
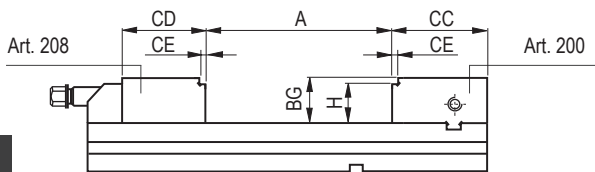
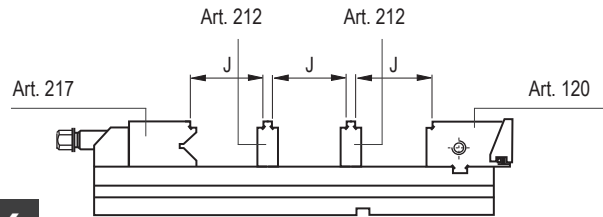
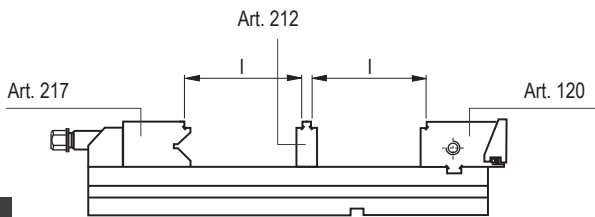
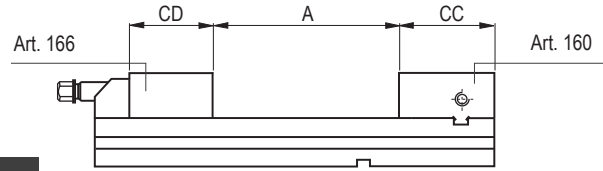
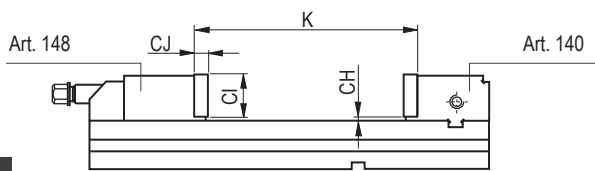
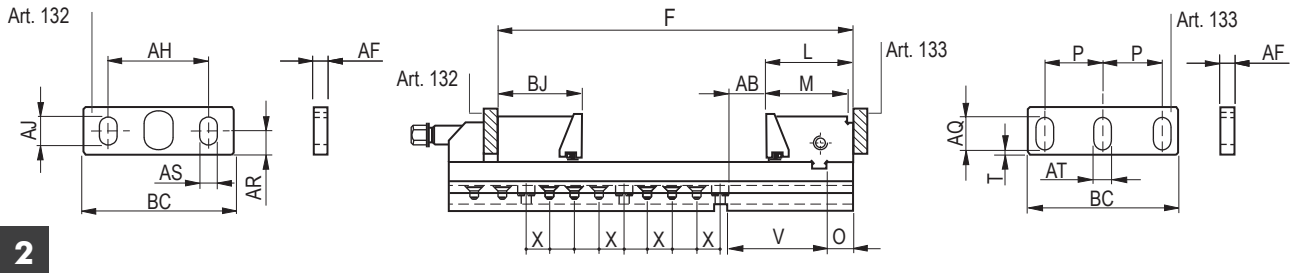
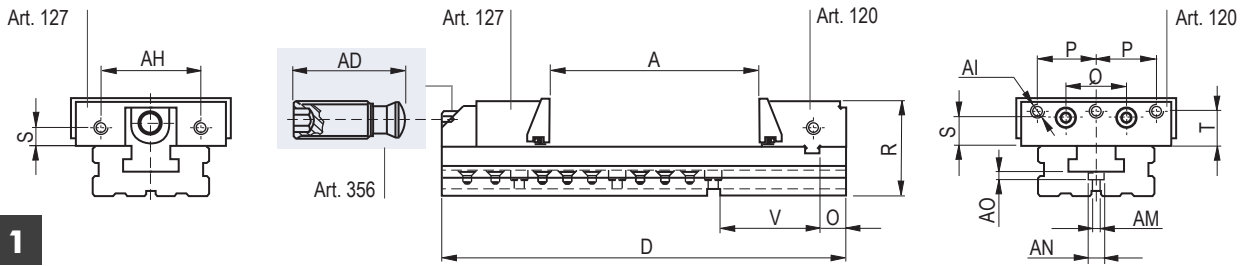
Art. 1

Art. 12

Art. 1+12


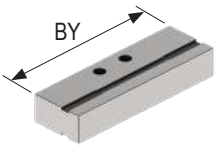

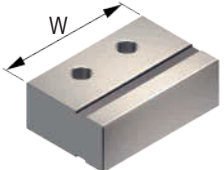
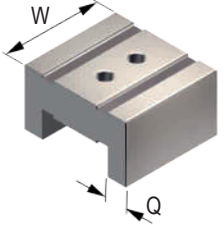
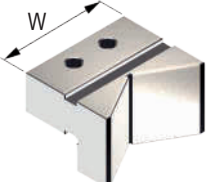
Tipo (grandezza) morsa / Vise type (size)

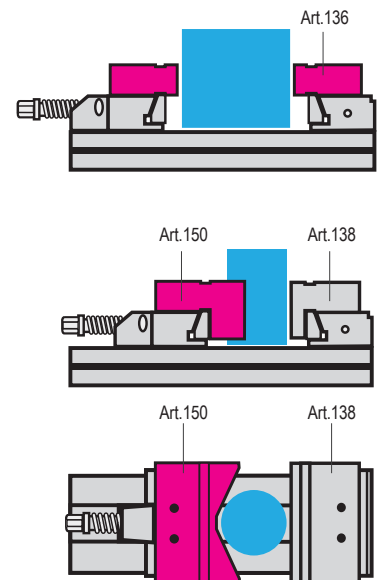
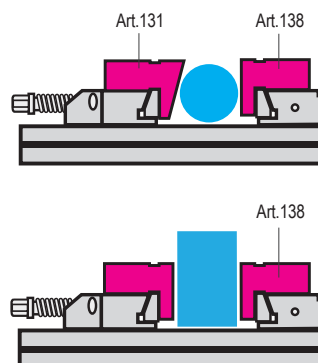
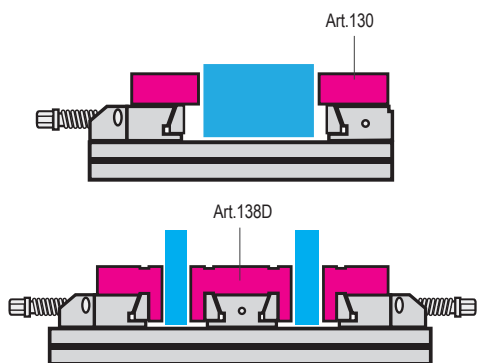
Tabella dimensionale / Table dimension

mm	1			2			3			4				5				6			
W	100	125	150	175			200				300										
A	100	150	200	300	200	300	400	500	200	300	400	500	600	200	300	400	500	600	700	800	
B	30	40	50	60				65				80									
C	35	40	50	58				70				78									
D	270	345	420	520	455	555	655	755	495	595	695	795	895	535	635	735	835	935	1035	1135	
E	320	425	500	600	530	630	730	830	580	680	780	880	980	630	730	830	930	1030	1130	1230	
F	225	285	370	470	385	485	585	685	410	510	610	710	810	440	540	640	740	840	940	1040	
G	75	95	125	145				170				195									
H	23	33	43	53				53				68									
I	55	70	110	160	110	160	210	260	105	165	205	265	305	115	165	215	265	315	365	415	
J	34	50	70	104	70	104	137	170	67	107	134	174	200	74	107	140	174	207	240	274	
K	124	174	226	326	226	326	426	526	236	336	436	536	636	236	336	436	536	636	736	836	

mm	1	2	3	4	5	6	Tolleranza Tolerance	mm	1	2	3	4	5	6	Tolleranza Tolerance
L	54	77.9	89.4	96.9	113.4	120.4	- 0.04	AO	4.5	5.5	12.5	12.5	17	17	
M	72.9	72.9	84.4	91.9	108.4	115.4	- 0.04	AP	15	15	20	20	26	26	
N	10	10	12	18	18	18	+ 0.02	AQ	16	18	26	26	29	30	
O	27	27	30	32	37	37	± 0.02	AR	18	24	26	34	31	38	
P	38	50	62	72.5	83	120		AS	11	17	17	17	21	21	
R	65	80	100	118	135	158		AT	11	11	13	13	13	17	
S	18	23	29	37.5	37.5	47.5		AU	35.5	35.5	38.5	41.5	47	47	
T	16	20.5	27.5	36.5	34	46		AV	M8	M10	M12	M12	M16	M16	
U	111	111	122.5	129	145	152		AW	75	95	125	145	170	195	
V	76	76	84.5	89	100	107	± 0.02	AX	20	23	28	28	34	38	
W	-	-	100	100	100	100		AY	50	62	88	100	120	133	
X	20	25	25	25	33.33	33.33		AZ	M10	M12	M14	M16	M20	M20	
Y	21	28	41	51	61	71	+ 0.02	BB	32	32	36	36	44	44	
Z	100	100	100	100	100	100		BC	96	121	146	171	196	296	
AA	10	12	13	15	20	20	- 0.02	BG	28	38	48	58	63	78	
AB	25.6	25.6	25.6	25.6	25.6	25.6	+ 0.02	BJ	50	60	80	90	100	120	
AC	31	41	57	70	80	90		BL	180	225	290	320	370	400	
AD	53	73	81	101	113	135		BM	9.5	9.5	11.5	11.5	17.5	17.5	
AF	13	18	18	18	18	18		CC	77	77	88.5	96	112	117	
AG	M10	M16	M16	M16	M20	M20		CD	48	58	78	88	98	117	
AH	62	80	90	116	138	184		CE	5	5	5	5	5	5	
AI	M10	M10	M12	M12	M12	M12		CF	-	-	64	64	71	-	
AJ	14	19	24	29	31.5	39		CG	-	-	100	100	128	-	
AK	38	38	50	50	76	240		CH	5.5	8	11	17	17	24	
AX	25,6	42,4	50,1	55,4	66,4	73,4		CI	24.5	32	39	43	48	56	
AL	42.4	42.4	50.9	55.4	66.4	73.4		CJ	12	12	13	13	18	18	
AM	4.5	5.5	12.5	12.5	17	17		CM	75	95	125	145	170	195	
AN	10	13	19	19	25	25									



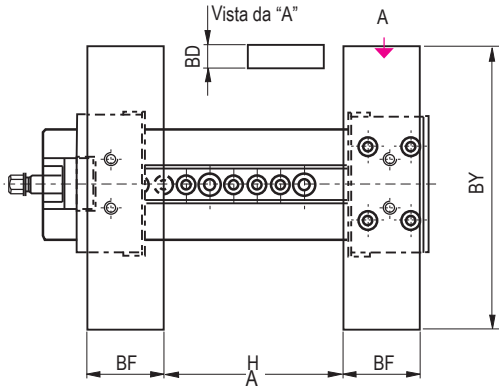
Tipo (grandezza) / Type (size)	1	2	3	4	5	6	
Ganascia piana sovrapponibile fissa o mobile Straight stack-type jaw fixed or movable							
Art. 130* Art. 130S*							
Extra large / Extra width							
	Cod. Art. 130	2.13.01000	2.13.02000	2.13.03000	2.13.04000	2.13.05000	2.13.06000
	Cod. Art. 130S	2.13.0S100	2.13.0S200	2.13.0S300	2.13.0S400	2.13.0S500	2.13.0S600
Cad / Each €		118	144	180	223	313	465
* Viti per fissaggio a richiesta Fixing screws on request							
Ganascia sovrapponibile per pezzi tondi fissa o mobile Stack-type jaw round parts fixed or movable							
Art. 131* Art. 131S*							
Larghezza normale / Normal width							
	Cod. Art. 131	2.13.11000	2.13.12000	2.13.13000	2.13.14000	2.13.15000	2.13.16000
	Cod. Art. 131A	2.13.1A100	2.13.1A200	2.13.1A300	2.13.1A400	2.13.1A500	2.13.1A600
Cad / Each €		175	216	269	334	470	703
* Viti per fissaggio a richiesta Fixing screws on request							
Ganascia piana sovrapponibile fissa o mobile Straight stack-type jaw fixed or movable							
Art. 136* Art. 136S*							
Larghezza normale / Normal width							
	Cod. Art. 136	2.13.61000	2.13.62000	2.13.63000	2.13.64000	2.13.65000	2.13.66000
	Cod. Art. 137	2.13.71000	2.13.72000	2.13.73000	2.13.74000	2.13.75000	2.13.76000
Cad / Each €		56	73	89	108	151	221
* Viti per fissaggio a richiesta Fixing screws on request							
Ganascia a squadra sovrapponibile fissa o mobile Square stack-type jaw fixed or movable							
Art. 138* Art. 138S*							
Larghezza normale / Normal width							
	Cod. Art. 138	2.13.81000	2.13.82000	2.13.83000	2.13.84000	2.13.85000	2.13.86000
	Cod. Art. 139	2.13.91000	2.13.92000	2.13.93000	2.13.94000	2.13.95000	2.13.96000
Cad / Each €		178	226	261	340	476	712
* Viti per fissaggio a richiesta Fixing screws on request							
Ganascia a squadra sovrapponibile doppia Double square jaw stack-type							
Art. 138D* Art. 138DS*							
Larghezza normale / Normal width							
	Cod. Art. 138D	2.13.8D100	2.13.8D200	2.13.8D300	2.13.8D400	2.13.8D500	2.13.8D600
	Cod. Art. 139D	2.13.9D100	2.13.9D200	2.13.9D300	2.13.9D400	2.13.9D500	2.13.9D600
Cad / Each €		247	306	382	478	668	1001
* Viti per fissaggio a richiesta Fixing screws on request							
Ganascia prismatica sovrapponibile fissa o mobile Stack-type prismatic jaw fixed or movable							
Art. 150* Art. 150S*							
Larghezza normale / Normal width							
	Cod. Art. 150	1.15.01000	1.15.02000	1.15.03000	1.15.04000	1.15.05000	1.15.06000
	Cod. Art. 150A	1.15.0A100	1.15.0A200	1.15.0A300	1.15.0A400	1.15.0A500	1.15.0A600
Cad / Each €		261	352	436	545	762	1.140
* Viti per fissaggio a richiesta Fixing screws on request							

Versione "S" in acciaio lavorabile / "S" type in soft steel
Esempi applicativi - Application examples:


Tipo (grandezza) morsa / Vise type (size)

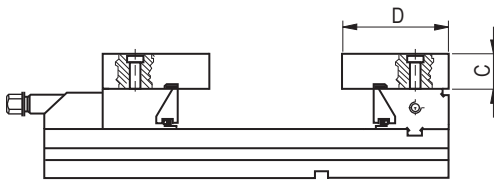
Art. 130

Temperate o in acciaio lavorabile
Hardened or soft



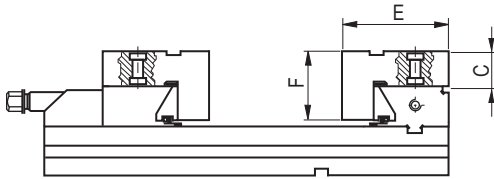
Art. 136/137

Temperate o in acciaio lavorabile
Hardened or soft



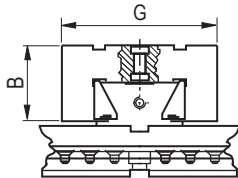
Art. 138/139

Temperate o in acciaio lavorabile
Hardened or soft



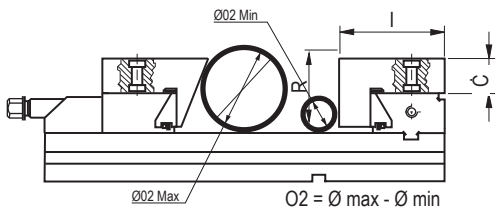
Art. 138D/139D

Temperate o in acciaio lavorabile
Hardened or soft



Art. 131/131A

Temperate o in acciaio lavorabile
Hardened or soft

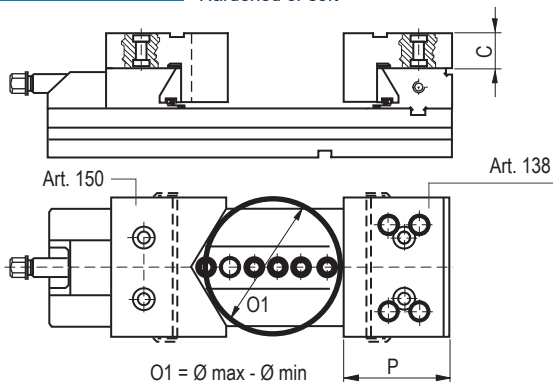


Art. 131

Ø2 min	33	43	49	60	70	
Ø2 max		100	130	160	180	220

Art. 150/150A

Temperate o in acciaio lavorabile
Hardened or soft



Art. 150

Ø1 min	24,5	32,5	35,5	38,5	51	72,5
Ø1 max	89	111	244	274	375,5	536

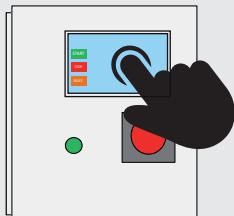
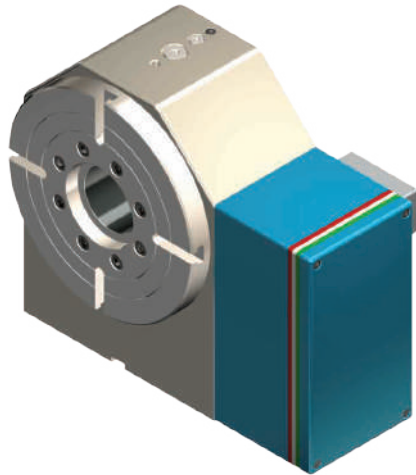
DIVISORE AUTOMATICO DPG 250

AUTOMATIC DIVIDING HEAD DPG 250

Divisore automatico
Automatic dividing head

Dati tecnici
Technical Data

DPG 250



PROGRAMMAZIONE TOUCH SCREEN
FACILE ED INTUITIVA O TRAMITE COLLEGAMENTO DIRETTO AL CNC

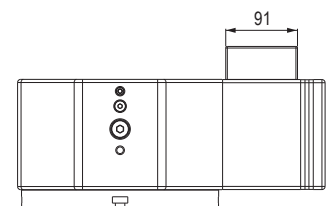
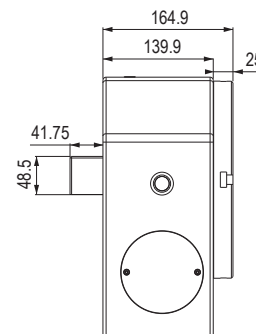
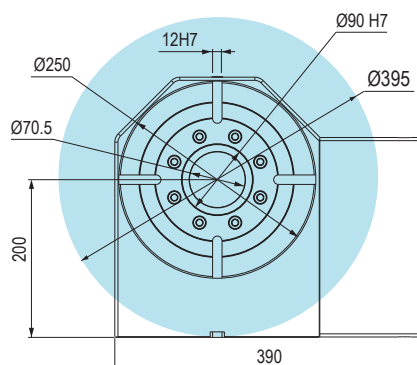
EASY AND INTUITIVE TOUCH SCREEN
PROGRAMMING OR THROUGH DIRECT CONNECTION TO THE CNC

- Installazione semplice (alimentazione 220V)
- Corona in bronzo speciale
- Controsupporto semplice
- Vite senza fine in acciaio temprato e rettificato
- Vite e corona in bagno d'olio
- Cuscinetti a vite precaricati
- Cuscinetto anteriore a rulli incrociati sovradimensionato
- Recupero gioco con avvicinamento assiale
- Completa tenuta stagna ai liquidi con possibilità di pressurizzazione
- Possibilità di montare motori di tutte le marche
- Dimensioni esterne contenute
- Finestra di controlli liquidi e condensa
- Lavorazione in posizionamento a 360°

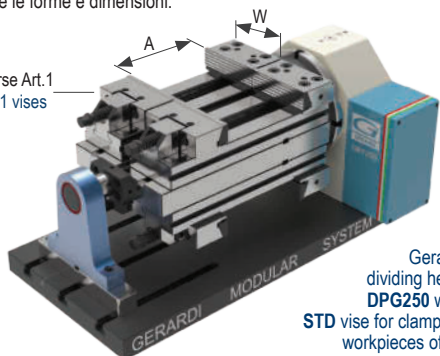
- Easy installation (220V)
- Special bronze crown
- Simple tailstock
- Worm screw in hardened ground steel
- Bath lubrication Screw and Crown
- Pre-loaded screw bearings
- Over-dimensioned crossed-roller front bearing
- Play recover with axial approach
- Watertight seal with possibility of pressurization
- Possibility to mount motors of all brands
- Reduced external dimensions
- Condensation and liquid control window
- 360° work positioning

Diametro del divisore Dividing head diameter		250 mm
Diametro del foro passante Clearance hole diameter		70,5 mm
Altezza punta Center height		200 mm
Dimensione della scanalatura a T T-Slot width		12 mm
Sistema di bloccaggio Clamping system		Idrraulico Hydraulic
Forza frenante Clamping torque		3000 Nm
Motore Servo motor		3000 Max.g/min
Minimo incremento Minimum increment		0,002
Velocità di rotazione Rotation speed		33,3 Giri/min
Rapporti vite/corona Speed reduction ratio (screw/gear)		1/90
Rapporti vite/motore Speed reduction ratio (screw/motor)		1/180
Precisione Indexing accuracy		±10 Sec.
Ripetibilità Repeatability		4 Sec.
Max. carico di lavoro sul divisore Max. allowable work weight on the dividing head	Verticale Vertical	Kg.550
	Orizzontale Horizontal	Kg.1500
Max. carico di spinta applicabile sul divisore Max. allowable tool load on the dividing head		N 25000
		FxL Nm 1000
		FxL Nm 2200
Rapporti vite/corona Speed reduction ratio (screw/gear)	Verticale Vertical	10,5 Kg. m ²
Coppia in lavoro Driving torque	Corona dentata Worm gear	698 Nm
Kg		110
Cod.		8.DP.G2500
€		22.533

DPG 250



Tipo (grandezza) / Type (size) Montaggio / Mounting		1		2		3		4	
	A	Double	Double	Double	Double	Double	Double	Double	Double
Apertura massima / Maximum spread	A	100	150	200	300	200	300	400	500
Divisore Gerardi PG250 con morse STD per il serraggio di particolari di tutte le forme e dimensioni.	W	96	121	146		171			
	B	28	38	48		58			
	C	35	40	50		58			
	D	270	345	420	520	455	555	655	755
	G	75	95	125		145			
	kg	7.3	13.2	26.2	29.7	37.9	43	48.1	53.2
	Cod.	1.DP.G25000	1.DP.G25010	1.DP.G25020	1.DP.G25030	1.DP.G25040	1.DP.G25050	1.DP.G25060	1.DP.G25070
	€	31.660	32.136	32.554	33.210	31.600	31.958	32.374	33.090

 Morse Art.1
 Art.1 vises


Gerardi dividing head DPG250 with STD vise for clamping workpieces of all shapes and sizes.

 Nel caso si disponga di un proprio divisore, il prezzo dell'attrezzatura potrebbe subire variazioni
 In case you already have a divider, the price may be revised

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !
Art. 99A

 Supporto
 Support


Cod. 7.99.A1000

€ 717

Art. 99B

 Perno di centraggio completo di sistema d'allineamento
 Horizontal centering pin with alignment system


Cod. 1.99.B1000

€ 1.082

Art. 99H

 Distanziale per supporto
 Spacer support


Cod. 1.99.H1000

€ 122

Art. 62K

 Piastra di interfaccia per cubo STD completa di sistema d'allineamento
 Connecting plate with alignment system for STD


Cod. 1.62.KDPG250

€ 1.165

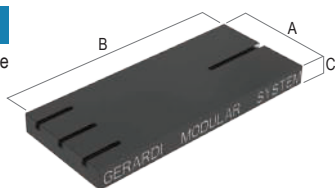
Art. 99T

 Sovratavola per divisore
 Head-plate for dividing head


Cod. 1.99.T1000 1.99.T2000 1.99.T3200 1.99.T3300 1.99.T4200 1.99.T4300 1.99.T4400 1.99.T4500

€ 1.373 1.432 1.493 1.552 1.493 1.611 1.671 1.731

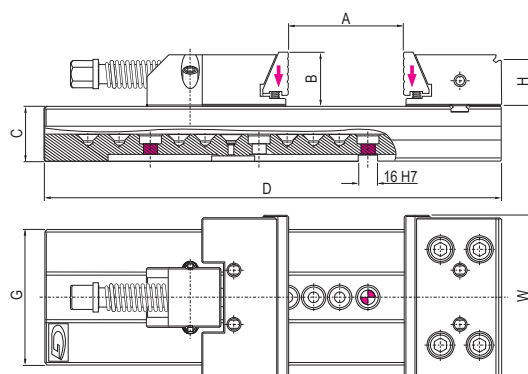
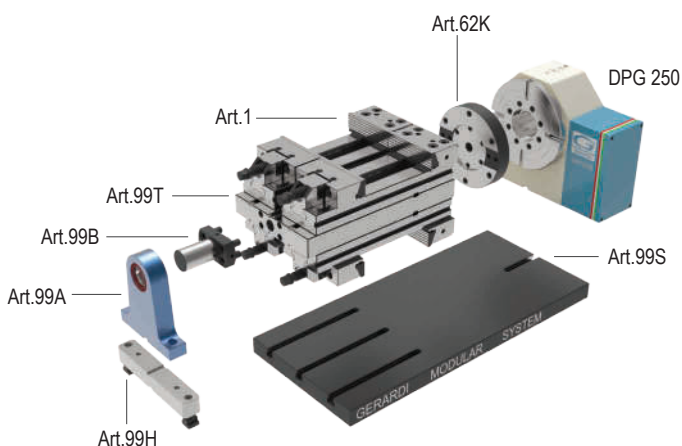
Art. 99S

 Piastra base con cave
 Piani rettificati
 Base plate with slot
 Faces ground


Dimensioni B mm Dimension B mm	A	C	Kg	Cod.	€
600	400	50	94	7.99.S060S	2.089
750	400	50	117	7.99.S075S	2.266
900	400	50	141	7.99.S090S	2.447
1100	400	50	172	7.99.S110S	2.625

 Cave o fori calibrati su richiesta
 Slot or calibrated holes on request

Disponibili quote "B" a step di 50mm - Available dimension "B" in steps of 50mm


 Vedi gruppo 4 per gamma completa accessori
 See group 4 for complete range of accessories

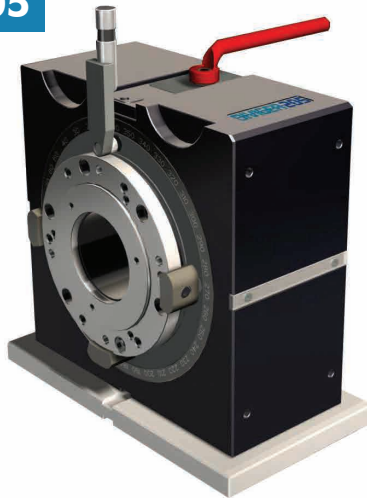
DIVISORE MECCANICO DIVIGER 205


MECHANICAL DIVIDING HEAD DIVIGER 205

Divisore automatico
Automatic dividing head

Dati tecnici
Technical Data

DIVIGER 205

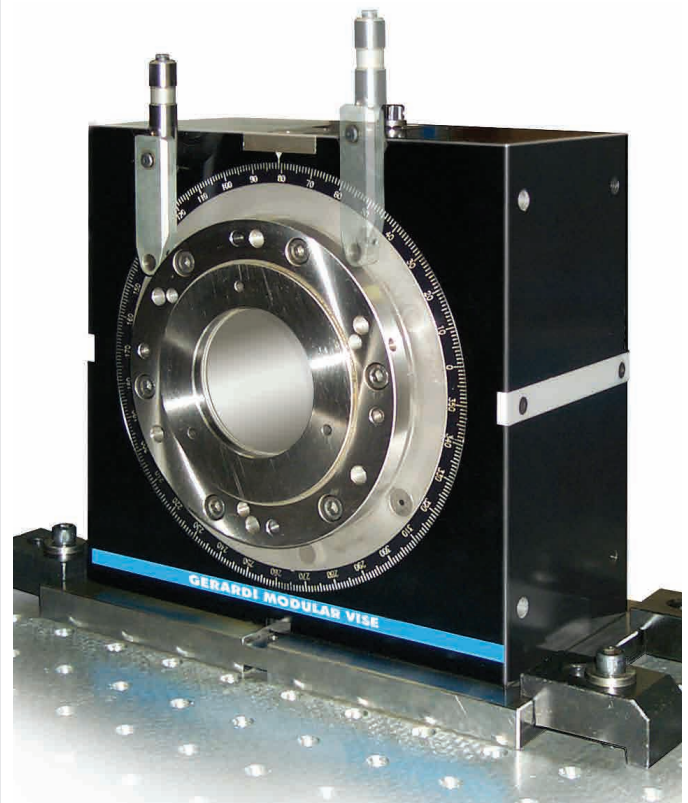


Diametro del divisore Dividing head diameter	220 mm
Diametro del foro passante Clearance hole diameter	85 mm
Altezza centrale Center height	200 mm
Dimensione della scanalatura a T T-Slot width	-
Sistema di bloccaggio Clamping system	Meccanico Mechanical
Minimo incremento Minimum increment	1°
Precisione Indexing accuracy	±10 Sec.
Coppia in lavoro Driving torque	 3000 Nm
Kg	93
Cod.	7.66.73000
€	13.056

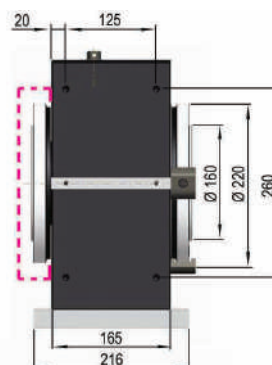
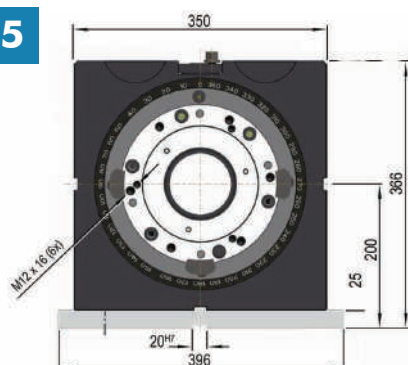
DIVISORE MECCANICO, SENZA CAVI O IDRAULICA,
PERMACCHINE A CNC

MECHANICAL DIVIDING HEAD, WITHOUT ELECTRICAL CABLES
OR HYDRAULIC, FOR CNC MILLING MACHINE

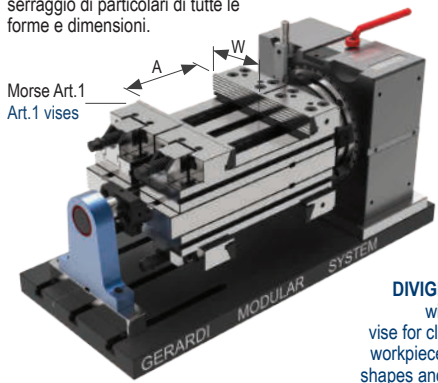
- Maggiore efficienza nella lavorazione su più lati
- Completamente autonomo dalla macchina
- Elevato momento torcente
- Divisione manuale o automatica tramite mandrino macchina
- 360 posizioni
- Serraggio simultaneo di due particolari grazie alla doppia flangia
- lavorazione su 5 facce senza contropunta
- Lavorazione a barra grazie al mandrino cavo
- Utilizzabile orizzontalmente o verticalmente
- Cambio tramite serraggio a cuneo
- Cost-effective on multiple-sides machining
- Machine independent
- High holding torque
- Dividing manually or automatically using the machine spindle
- 360 x 1° division
- Simultaneous clamping of 2 workpieces thanks to the dual flange
- 5 faces machining without counter-holder
- Bar machining due to hollow spindle
- To be used horizontally or vertically
- Quick change through wedge clamping



DIVIGER 205



Tipo (grandezza) / Type (size)	1		2		3		4		
	Double	Double	Double	Double	Double	Double	Double	Double	
Apertura massima / Maximum spread	A	100	150	200	300	200	300	400	500
DIVIGER 205 con morse STD per il serraggio di particolari di tutte le forme e dimensioni. Morse Art.1 Art.1 vises	W	96	121	146		171			
	B	28	38	48		58			
	C	35	40	50		58			
	D	270	345	420	520	455	555	655	755
	G	75	95	125		145			
Cod.	1.DI.V20500	1.DI.V20510	1.DI.V20520	1.DI.V20530	1.DI.V20540	1.DI.V20550	1.DI.V20560	1.DI.V20570	
€	22.183	22.659	23.077	23.733	22.122	22.480	22.898	23.614	




DIVIGER 205 with STD
 vise for clamping workpieces of all shapes and sizes.

Nel caso si disponga di un proprio divisore, il prezzo dell'attrezzatura potrebbe subire variazioni
 In case you already have a diviger, the price may be revised


UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art. 99A
 Supporto Support




Cod. 7.99.A1000
 € **717**

Art. 99B
 Perno di centraggio completo di sistema d'allineamento
 Horizontal centering pin with alignment system



Cod. 1.99.B1000
 € **1.082**

Art. 99H
 Distanziale per supporto
 Spacer support



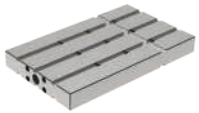
Cod. 1.99.H1000
 € **122**

Art. 62K
DIVIGER 205
 Piastra di interfaccia per cubo STD completa di sistema d'allineamento
 Connecting plate with alignment system for STD



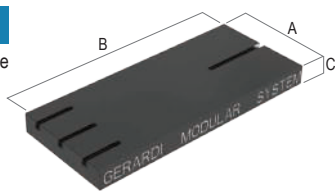
Cod. 1.62.KDIV205
 € **1.165**

Art. 99T
 Sovratavola per divisore
 Head-plate for dividing head



Cod. 1.99.T1000 1.99.T2000 1.99.T3200 1.99.T3300 1.99.T4200 1.99.T4300 1.99.T4400 1.99.T4500
 € **1.373 1.432 1.493 1.552 1.493 1.611 1.671 1.731**

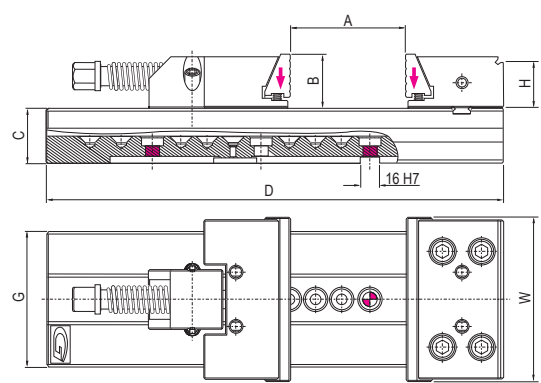
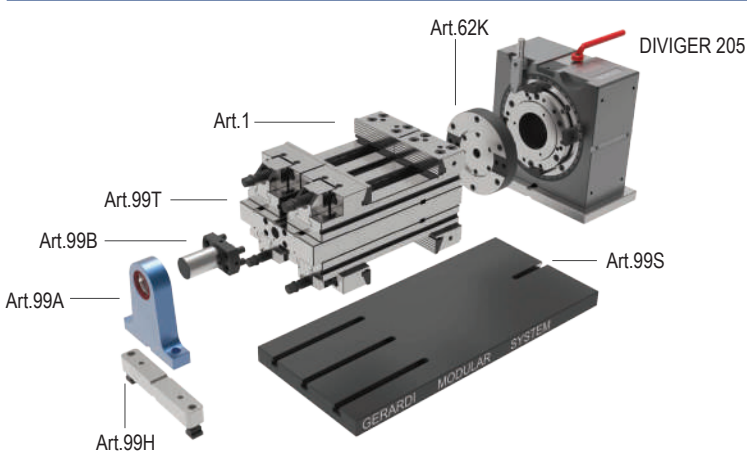
Art. 99S
 Piastra base con cave
 Piani rettificati
 Base plate with slot
 Faces ground



Dimensioni B mm Dimension B mm	A	C	Kg	Cod.	€
600	400	50	94	7.99.S060S	2.089
750	400	50	117	7.99.S075S	2.266
900	400	50	141	7.99.S090S	2.447
1100	400	50	172	7.99.S110S	2.625

Cave o fori calibrati su richiesta
 Slot or calibrated holes on request

Disponibili quote "B" a step di 50mm - Available dimension "B" in steps of 50mm



Vedi gruppo 4 per gamma completa accessori
 See group 4 for complete range of accessories

PREDISPOSIZIONE e MONTAGGIO MORSE su CUBI LAVORATI

TOMBSTONES SET-UP and VISES MOUNTING on MACHINED TOMBSTONES

Art. 53C
Cubo lavorato
 Machined cube


Dim. A=350 / B=500 / H=700

Cod. 8.53.C00171

€ 4.753
Art. 1
Tipo di morsa
 Vise type

 Art.1 Type 4x300
€ 1.232

Cod. 3.04.30000

Numero morsa x **4**
 Vises number

Tot. € 4.928

Predisposizione e montaggio completo

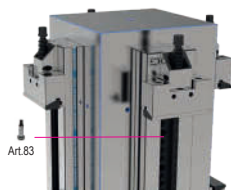
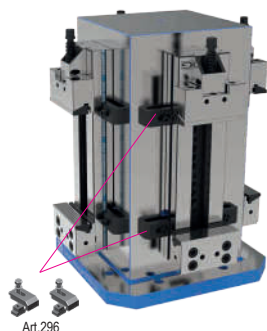
Complete set up & mounting



Cod. MAN-040-STD

 Per morsa / each vise € 220
Tot. € 880

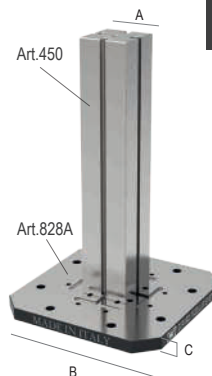
Realizzazione di fori filettati o fori di fissaggio (da un minimo di 4 a un massimo di 6), fori calibrati o chiavette (da un minimo di 2 a un massimo di 3).
 Creation of threaded holes or screw holes (minimum 4 and maximum 6), calibrated holes or key-ways (minimum 2 and maximum 3).

Cubo con morsa
 Cube with vises

Tot. € 10.561

 TABULATO controllo DEA - MAN-100-STD : € 220 Extra
 PRINTOUT DEA control - MAN-100-STD : € 220 Extra

MONTAGGIO MORSE in VERTICALE su SUPPORTO CENTRALE

VISE VERTICAL MOUNTING on CENTRAL SUPPORT

Supporto centrale + Piastra base
 Center support + Head plate

 Art.450
 Dim. A=125 / H=520
€ 1.022

 Art.828A
 Dim. B=400 / C=38
€ 1.262

Cod. 1.45.03520

Cod. 1.82.8A300

Tot. € 2.284
Art. 1
Tipo di morsa
 Vise type

 Art.1 Type 3x300
€ 957

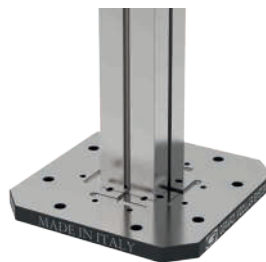
Cod. 3.03.30000

Numero morsa x **4**
 Vises number

Tot. € 3.828

Montaggio verticale (complesso)

Vertical (complex) Assembly



Cod. MAN-080-STD

 Per morsa / each vise € 165
Tot. € 660

Montaggio di una o più morsa e/o attrezzature. Il prezzo di listino comprende manodopera, viti, staffe e tasselli per singola morsa.
 Assembly of one or more vises and/or equipment. The list price includes working hours, screws, holding clamps and key-nuts for only one vise.

Art. 750
Cubo con morsa
 Cube with vises


Art.750 Type 3x300

Cod. 1.75.03300

Tot. € 6.772

 TABULATO controllo DEA - MAN-100-STD : € 220 Extra
 PRINTOUT DEA control - MAN-100-STD : € 220 Extra

CONTROLLO ALLINEAMENTO TRA CAVA TRASVERSALE E GANASCIA FISSA

ALIGNEMENT BETWEEN THE CROSS KEYWAY AND THE FIXED JAW PLATE



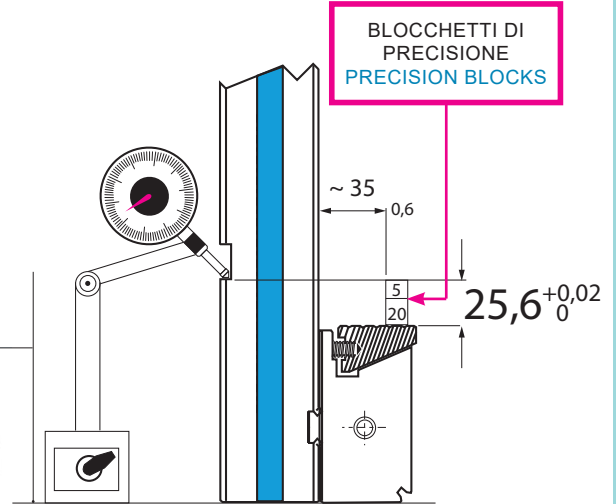
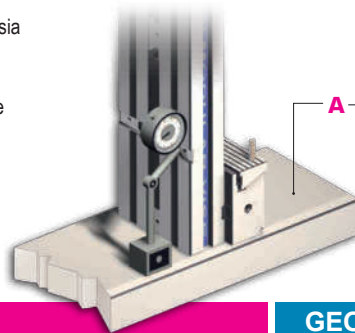
Libretto Istruzioni / Instruction Book

Scansiona il QR code e scarica le istruzioni complete

Scan the QR code to download the complete instructions

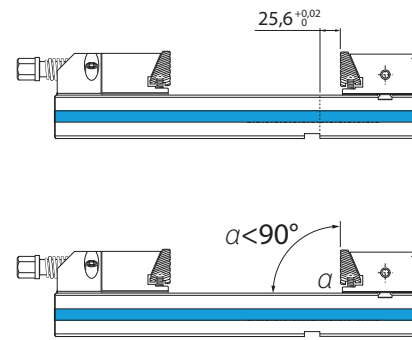
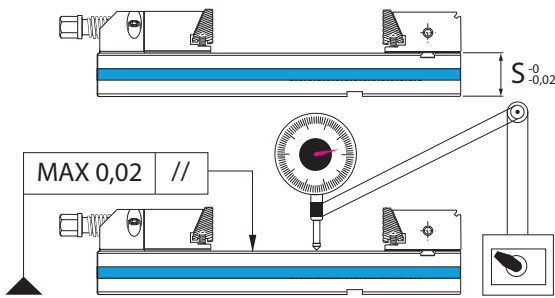
Posizionare la morsa verticalmente assicurandosi che sia perfettamente parallela al piano di appoggio **A** nei due sensi. Successivamente, con un comparatore centesimale, controllare il parallelismo del piano cava e della ganascia fissa.

Set the vise vertically ensuring that it is perfectly at parallel to the table **A** in both sides. Then with an indicator check the parallelism of the keyway and its alignment with the fixed jaw plate.



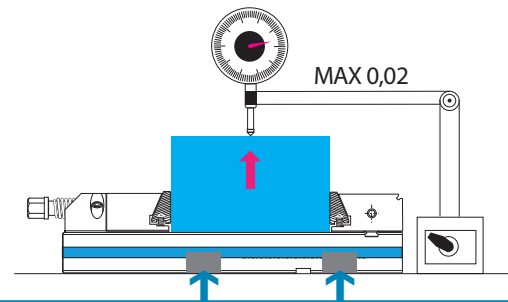
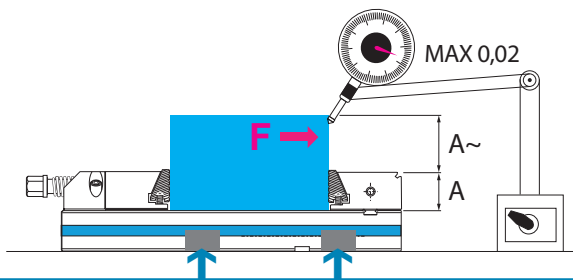
TOLLERANZE GEOMETRICHE

GEOMETRIC ACCURACIES



TOLLERANZE DINAMICHE

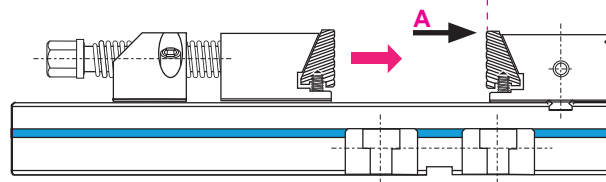
DYNAMIC ACCURACIES



Morsa ancorata con 2 coppie di staffe Art.296 / Vise clamped with n. 2 pairs of Art.296

Valori di flessione nel punto "A" in relazione alle forze di serraggio **PER MORSE TIPO 3**
 Deflection values at "A" in relation to clamping powers **FOR TYPE 3 VISES**

1 kgf . m = 9.806 Nm



Kn	mm
60	0.1
50	0.07
40	0.05
30	0.03
20	0.02
10	0.01
5	0.004
2	0.002

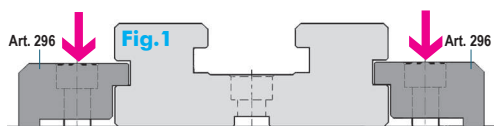
Il sistema consigliato per l'ancoraggio della morsa sulla tavola macchina è tramite **STAFFE Art.296**. (Fig.1)

E' possibile ancorare la morsa tramite viti centrali, ma in questo caso la quota X potrebbe flettere e compromettere lo scorrimento della ganascia mobile. (Fig.2)

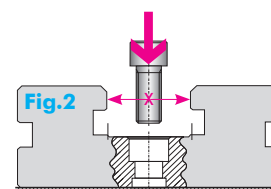
Nella tabella seguente sono riportati i valori di coppia massima applicabile mediante chiave dinamometrica

We recommend to fix the vises to the machine table using clamps Art. 296. (Fig. 1) The vise can be also fixed by means of central screws, but, this way, the X quota may suffer a bending and compromise the sliding of the movable jaws. (Fig. 2)

In the following table you can find the maximum torque values applicable through torque wrench.



Vite Screw	M8	M10	M12	M16
Torque Nm	40	80	140	345



Type	1	2	3	4	5	6
Torque Nm	18	40	140	140	250	250
Viti - Screws	2	2	3	4	4	4

Diagrammi di serraggio / Clamping diagrams

Standard / StandardFLEX

Diagrammi di serraggio meccanico con chiave dinamometrica

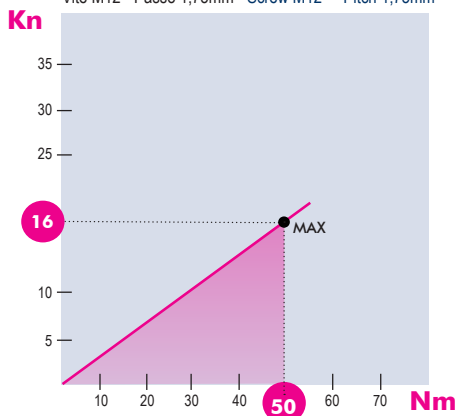
Mechanical clamping diagrams with torque wrench

Art. 1 / 1A / 700

Morse tipo
Vises type

1

Vite M12 - Passo 1,75mm - Screw M12 - Pitch 1,75mm

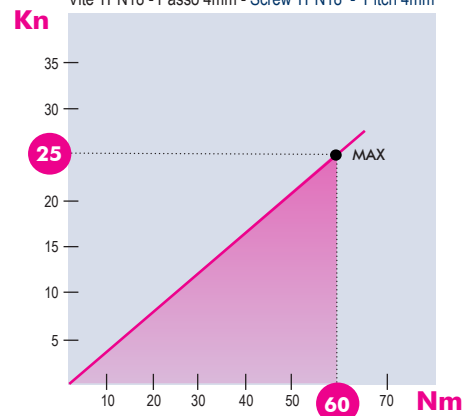


Art. 357

Morse tipo
Vises type

2

Vite TPN18 - Passo 4mm - Screw TPN18 - Pitch 4mm



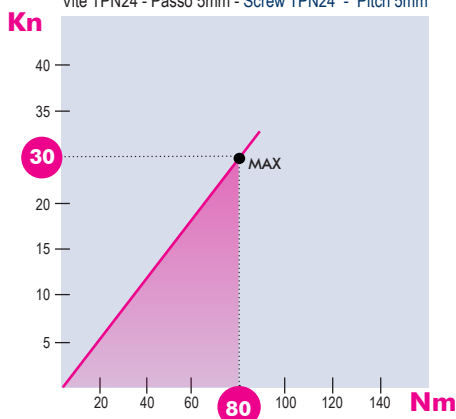
Gruppi di serraggio meccanici (Art. 258 e simili) / Mechanical clamping devices (Art. 258 and similar)

I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con le morse di varia grandezza (da 1 a 6), in funzione del momento applicato
The following diagrams give the clamping force that can be obtained with each vise type (size 1 to 6) depending on the torque

Morse tipo
Vises type

3-4

Vite TPN24 - Passo 5mm - Screw TPN24 - Pitch 5mm

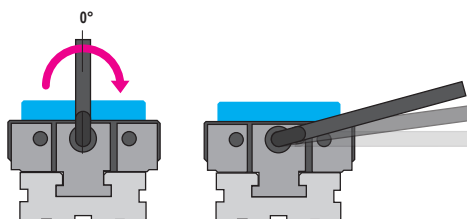
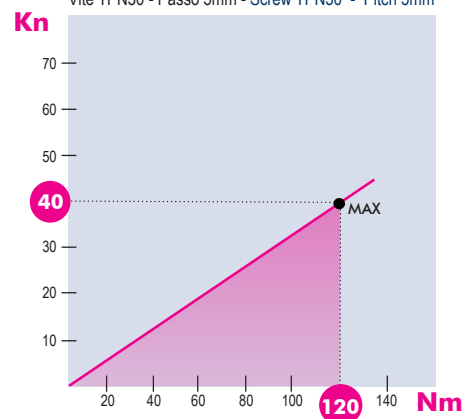


Art. 357

Morse tipo
Vises type

5-6

Vite TPN30 - Passo 5mm - Screw TPN30 - Pitch 5mm



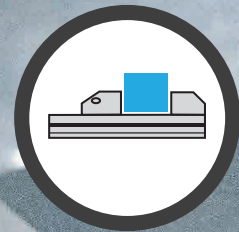
Serrare il pezzo agendo sulla vite di spinta con la chiave in dotazione senza utilizzare tubi o martelli.
Attenzione: nel serraggio basta 1/4 di giro della chiave dal momento in cui la ganaschia tocca il particolare.

Clamp the workpiece turning clockwise the main spindle through the box wrench without using tubes or hammers. Attention: for the right clamping operation 1/4 of a turn of the box wrench is enough

Type (Size)	1	2	3	4	5	6
Kn	12	26	36	46	50	50

Valori indicativi Kn raggiunte a 90°
Kn indicative values at 90°

NB: Alcuni fattori, come la lubrificazione, lo staffaggio, gli attriti ed altro, possono modificare i valori indicati fino a ± 10%. Per un corretto utilizzo non superare i valori indicati nel grafico
Some factor as lubrication, clamping on the machine table, frictions and more can modify above values within a ± 10% range. For optimum operation do not exceed chart values.



1

90° max

*For the highest accuracy
machining operations*

OK

3 MICRONS ACCURACY

Morse e Cubi / Vises & Vise Towers

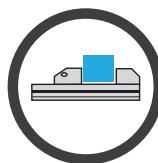
Morse / Vises

OK series


 Precisione / Accuracy
±0,005mm

 Durezza / Hardened
HRC 60
Morse di precisione per rettifica!
Highest accuracy vises for grinding operations!
CARATTERISTICHE & VANTAGGI

- ✓ SUPERFICI RETTIFICATE, TEMPRATE E LAPPATE
- ✓ ORTOGONALITÀ E PARALLELISMO 0,003mm / 100mm
- ✓ IDEALI PER OPERAZIONI DI CONTROLLO, RETTIFICA, ELETTROEROSIONE E FRESATURA


TECHNICAL FEATURES & ADVANTAGES

- ✓ ALL CASE HARDENED AND HARDENED HRC 60 STEEL
- ✓ SQUARENESS AND PARALLELISM: 0.003mm / 100mm
- ✓ IDEAL FOR GRINDING E.D.M MACHINE AND FOR MILLING OPERATIONS ALSO FOR CHECKING AND CONTROL

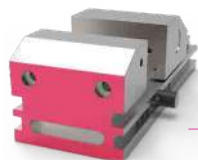
Per le esigenze più impegnative nelle lavorazioni con ristrette tolleranze

For the highest accuracy machining operations

Rigidità & Sicurezza
Rigidity & Safety

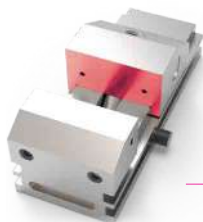
La ganaschia fissa e la base delle morse OK sono integrali e costruite in corpo unico per garantire una maggiore rigidità e nessuna flessione durante le lavorazioni.

The fixed jaw and the base of the OK vises are built in one solid pieces in order to guarantee higher rigidity & no bendings during the machinings


Guide esterne
External Guides

A differenza della guida centrale che consente un'importante oscillazione della ganaschia, la guida esterna garantisce uno scorrimento più lineare e preciso, garantendo così il parallelismo dei piani delle ganasce fissa e mobile.

Differently from the central guide that allows a significant jaw tilting, the external guide grants a linear and accurate sliding thus ensuring the parallelism of the fixed and movable jaws surfaces.


Fissaggio morse OK
Fixing OK vise

La morsa viene bloccata sulla tavola macchina grazie a due coppie di staffe di fissaggio complete di vite e tassello a "T".

The OK vise is clamped on the machine table by two pair of vise holding clamps complete of screw and "T" nut



Staffe d'ancoraggio / Vise holding clamps

OK Series

Coppia staffe di fissaggio Art.666O, complete di vite e dado a "T"

Pair of vise holding clamps Art.666O complete of screw and "T" nuts

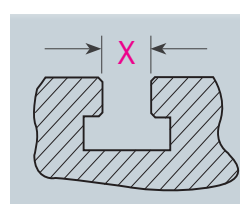
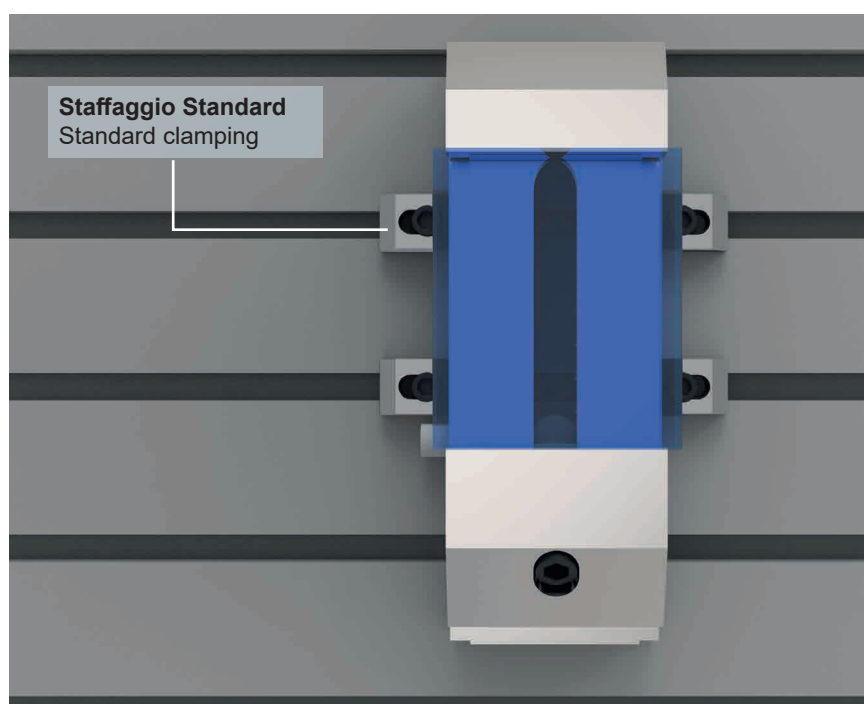


Esempio d'ordine per morsa tipo 3 su macchina con cave a T da 18mm: **Art.666O T.3 X=18mm***

Oppure con codice: **7.66.6O300***

Order example for Type 3 vise on machine with 18mm T-slots: **Art.666O T.3 X=18mm***

Also with code: **7.66.6O300***

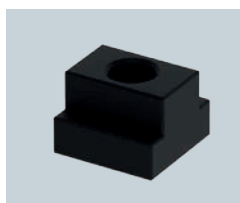


Cava a T

T Slot

Specificare sempre la cava della vostra macchina

Always specify the machine T-slot dimension

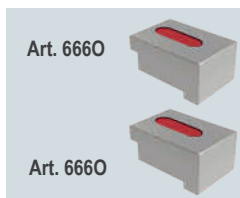


Art.287 (Pag.4.34)*

Dadi a T - T Nuts

Per fissaggio morsa alle cave a T della macchina

For vise clamping on the machine T-slots



Art.666O

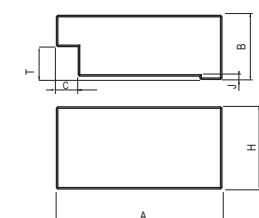
Consigliate 2 coppie di staffe Art.666O per ogni morsa

Suggested 2 pairs of holding clamps Art.666O for each vise

* Dadi a T (Art.287) e viti TCEI a richiesta - T-Nuts (Art.287) & HS screws on request

Tipo (grandezza) morsa Vise type (size)		0	1	2	3	4 - 5 - 6	7	8
Art. 666O Coppia di staffe Holding clamps pair	Tipo (grandezza) Type (size)	T0	T1	T2	T3	T4	T7	T8
	A	36	50	60,5	60,5	65	65	80
	B	8,5	15,4	19,6	23,4	27,5	37	35
	C	3	5	6	8	9,5	10	12
	H	14	25	30	30	30	30	40
	J	1	1,2	1,2	1,2	1,2	1	1
	T	3	8	10	12	14	24	18
	Cod.	7.66.6O000	7.66.6O100	7.66.6O200	7.66.6O300	7.66.6O400/ 500/600	7.66.6O700	7.66.6O800
	€	8	10	11	12	13	13	13

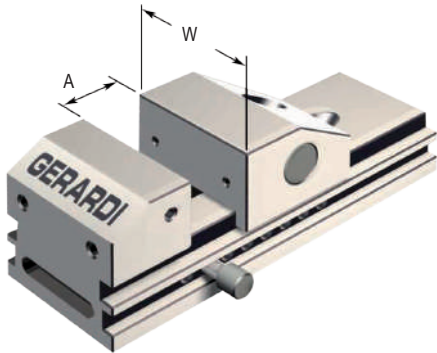
Staffe completamente lavorabile
Completely machineable clamp



Tipo (grandezza) morsa / Vise type (size)	kN	0	1	2	3	4	5	6	7	8
				16 kN	16 kN	18 kN	18 kN	18 kN	18 kN	20 kN
Apertura massima / Maximum spread	A	27	80	100	120	160	180	200	260	200
	W	30	60	75	100	125	125	125	125	160
	B	15	28	40	45	50	50	50	50	63
	C	15	28	35	42	50	50	50	50	63
	D	75	175	220	260	330	350	370	430	410
	E	15	40	50	55	65	65	65	65	80
	F	33	55	50	85	105	105	105	110	130
	kg	0,28	2,820	5,820	10,740	19,450	20,080	20,720	26,720	38
	Cod.	3.66.60000	3.66.61000	3.66.62000	3.66.63000	3.66.64000	3.66.65000	3.66.66000	3.66.67000	3.66.68000
	€	194	389	463	657	936	1.024	1.116	1.522	1.873

Art. 666

Morsa serie OK in acciaio / Series OK vises in steel

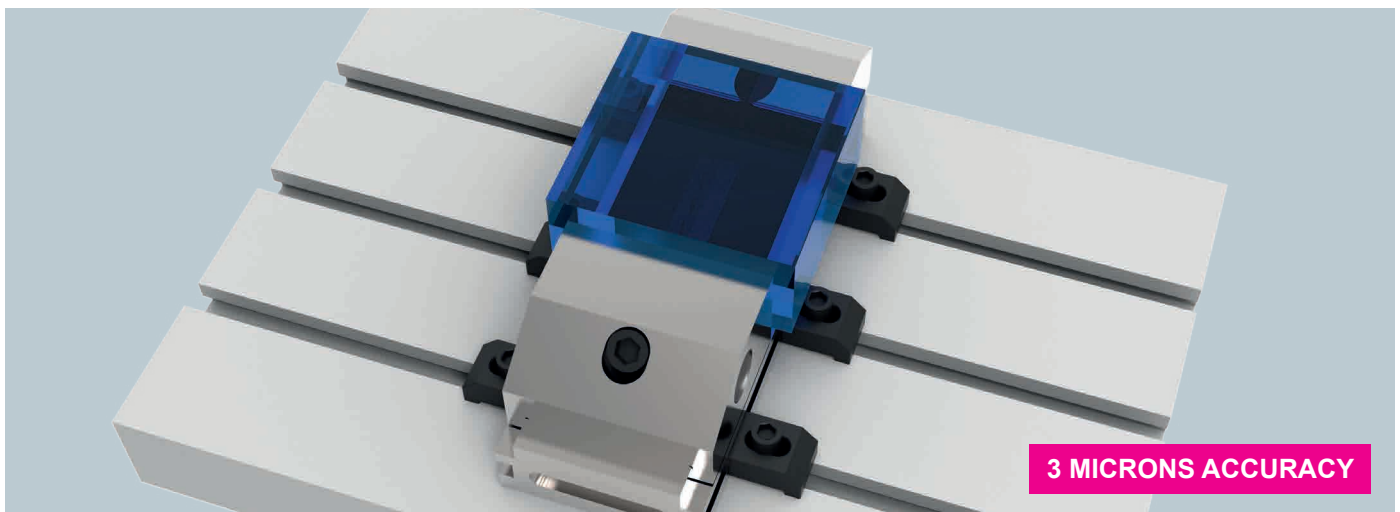


Art. 666S

 Morsa serie OK in acciaio INOX Tipo *X39 Cr13 per elettroerosione. Stesse caratteristiche dell' Art. 666
 Series OK vises in INOX steel Type *X39 Cr13 for E.D.M. machines. Same features and dimension of the Art. 666

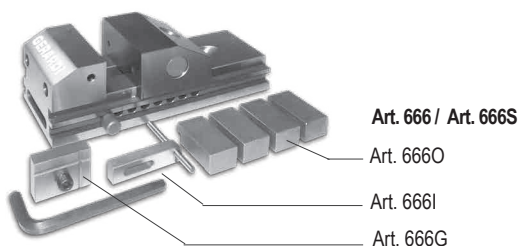
 * Acciaio temprato a basso contenuto di ferro (Max resistenza alla corrosione dopo tempra e rettifica)
 Low carbon hardened steel (max resistance against corrosion after hardening process and grinding operations)

Cod.	3.66.6S000	3.66.6S100	3.66.6S200	3.66.6S300	3.66.6S400	3.66.6S500	3.66.6S600	3.66.6S700	3.66.6S800
€	328	654	777	1.105	1.577	1.731	1.882	2.569	3.164


3 MICRONS ACCURACY

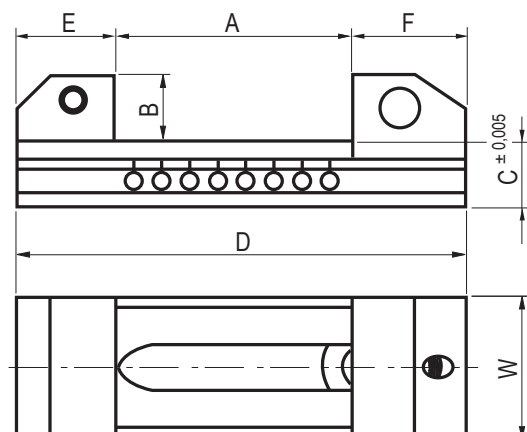
Dotazione standard:

- 4 staffe di fissaggio Art. 666O
- 1 arresto laterale fisso Art. 666G (NON FORNITO con morsa Tipo 0) ■ 1 arresto laterale mobile Art. 666I



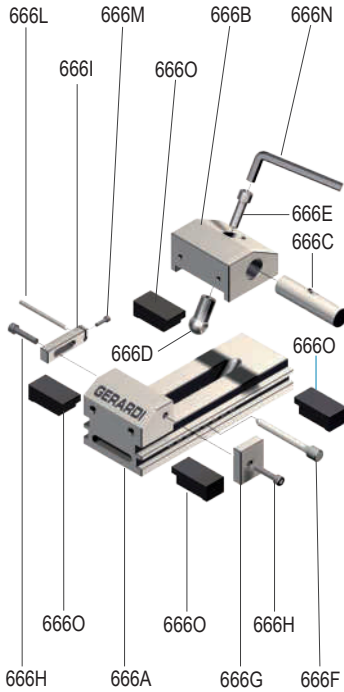
Standard equipment:

- 4 clamping jaws Art. 666O
- 1 fixed work stop Art. 666G (NOT INCLUDED with Type 0 vises) ■ 1 movable work stop Art. 666I



Tipo (grandezza) morsa / Vise type (size)

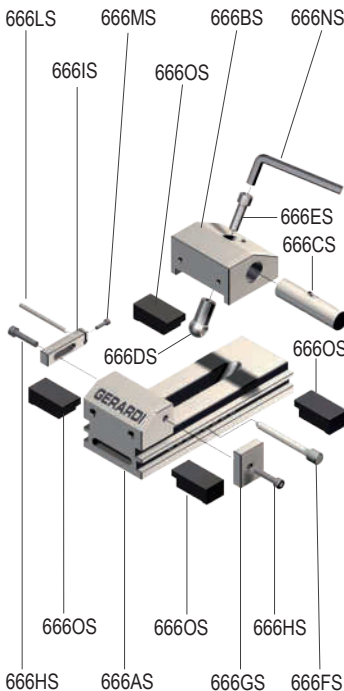
0	1	2	3	4	5	6	7	8
		16 kN	16 kN	18 kN	18 kN	18 kN	18 kN	20 kN

Parti di ricambio per Art. 666 / Spare parts for Art. 666
Art. 666


Art. 666	Cod.	0	1	2	3	4	5	6	7	8
Art. 666A	7.66.6A000	€ 139	276	346	482	618	686	757	1.096	1.233
Art. 666B	7.66.6B000	€ 54	106	131	179	255	255	255	346	577
Art. 666C	7.66.6C000	€ 14	24	27	27	28	28	28	28	31
Art. 666D	7.66.6D000	€ 24	40	42	42	44	44	44	44	46
Art. 666E	7.66.6E000	€ 7	8	8	8	8	8	8	8	9
Art. 666F	7.66.6F000	€ 10	14	17	17	18	18	18	18	20
Art. 666G	7.66.6G000	€ 10	14	16	16	17	17	17	17	17
Art. 666H	7.66.6H000	€ 7	8	8	8	8	8	8	8	8
Art. 666I	7.66.6I000	€ 11	17	18	18	20	20	20	20	21
Art. 666L	7.66.6L000	€ 8	10	11	11	11	11	11	11	11
Art. 666M	7.66.6M000	€ 7	8	8	8	8	8	8	8	8
Art. 666N	7.66.6N000	€ 16	28	31	34	37	37	37	37	37
Art. 666O	7.66.6O000	€ 8	10	11	12	13	13	13	13	13

Tipo (grandezza) morsa / Vise type (size)

0	1	2	3	4	5	6	7	8
		16 kN	16 kN	18 kN	18 kN	18 kN	18 kN	20 kN

Parti di ricambio in acciaio inox per Art. 666S / Spare parts in stainless steel for Art. 666
Art. 666S


Art. 666S	Cod.	0	1	2	3	4	5	6	7	8
Art. 666AS	7.66.6AS00	€ 181	359	449	624	804	890	980	1.426	1.603
Art. 666BS	7.66.6BS00	€ 73	139	165	230	328	412	412	415	750
Art. 666CS	7.66.6CS00	€ 17	31	34	34	36	36	36	36	39
Art. 666DS	7.66.6DS00	€ 28	49	54	54	56	56	56	56	64
Art. 666ES	7.66.6ES00	€ 8	9	9	9	9	9	9	9	10
Art. 666FS	7.66.6FS00	€ 12	18	21	21	22	22	22	22	25
Art. 666GS	7.66.6GS00	€ 12	18	21	21	21	21	21	21	21
Art. 666HS	7.66.6HS00	€ 8	9	9	9	9	9	9	9	9
Art. 666IS	7.66.6IS00	€ 13	21	22	22	24	24	24	24	27
Art. 666LS	7.66.6LS00	€ 9	12	12	12	12	12	12	12	12
Art. 666MS	7.66.6MS00	€ 8	9	9	9	9	9	9	9	9
Art. 666NS	7.66.6NS00	€ 20	37	39	41	46	46	46	46	48
Art. 666OS	7.66.6OS00	€ 9	12	13	14	14	14	14	14	17

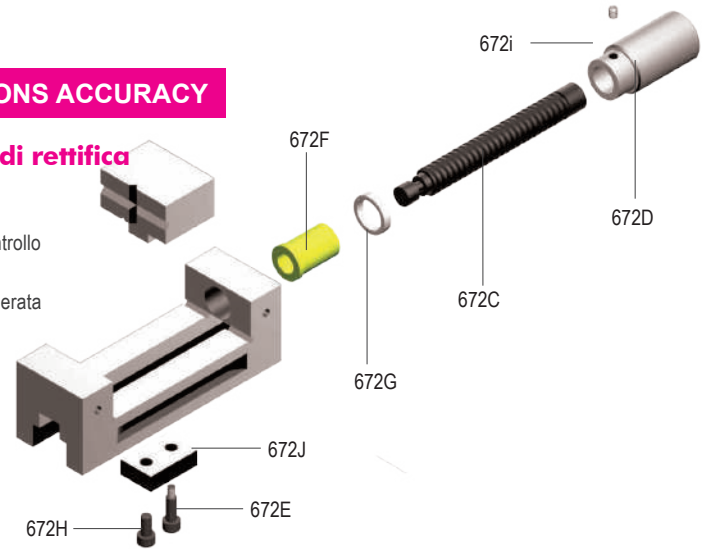
MORSE per RETTIFICA

GRINDING VISES

3 MICRONS ACCURACY
Una morsa estremamente precisa, adatta a lavorazioni di rettifica
High precision vise ideal for grinding operations

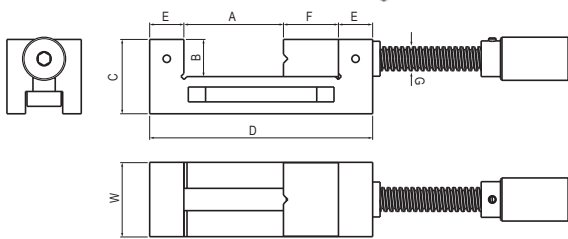
- Particolarmente adatta per lavori di alta precisione su rettificatrici e apparecchiature di controllo
- Costruita completamente in acciai temprati a durezza 58/60 HRC
- Perfettamente rettificata su tutti i suoi piani onde per ottenere i 90° in ogni posizione desiderata
- La ganaschia mobile ha due V ortogonali per bloccare pezzi cilindrici
- Tolleranze millesimali: ± 0.003 mm.

- Ideal for high-precision grinding machines or for inspection work
- Entirely made of non-deformable alloy steel hardened to 58/60 HRC
- Perfectly ground surfaces in order to reach 90° in any position
- The movable jaw has two prismatic surfaces in order to clamp round workpieces
- Accuracy: ± 0.003 mm



Tipo (grandezza) morsa / Vise type (size)		1	2	3	4	5	6	7
Apertura massima / Maximum spread	A	64	76	88	100	120	160	175
	W	50	64	76	88	100	125	150
	B	30	35	35	40	40	50	50
	C	60	70	70	75	75	98	98
	D	150	172	187	215	240	290	305
	E	30	30	32	40	40	50	50
	F	35	40	40	45	45	50	50
	H	190	212	227	255	280	338	355
	kg	2,2	3,9	5,4	7	8,8	15,7	20
	Cod.	1.67.21000	1.67.22000	1.67.23000	1.67.24000	1.67.25000	1.67.26000	1.67.27000
	€	301	330	360	395	539	777	1.027

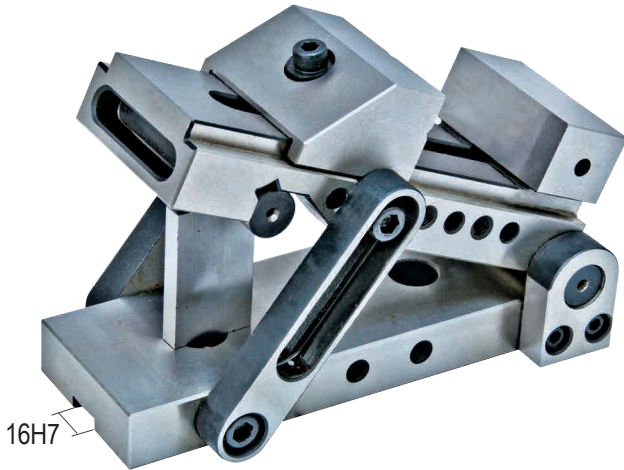
Art. 672

 Morsa serie OK in acciaio
 Series OK vises in steel


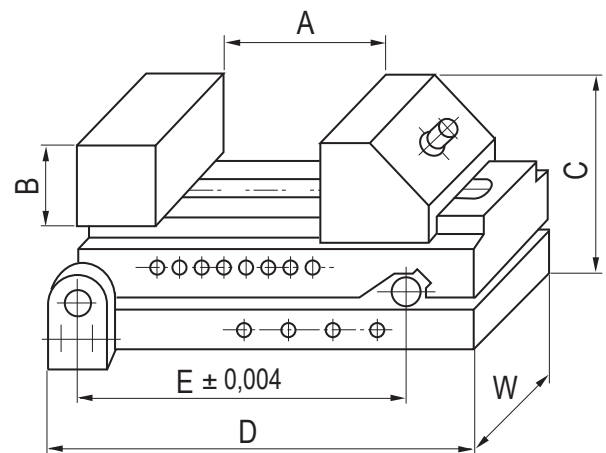
Tipo (grandezza) morsa / Vise type (size)		1	2	3	4	5	6	7
Base Morsa Vise Base	Art. 672A	Cod. 1.67.2A100	1.67.2A200	1.67.2A300	1.67.2A400	1.67.2A500	1.67.2A600	1.67.2A700
	€	183	199	217	242	325	468	616
Ganaschia Mobile Movable Jaw	Art. 672B	Cod. 1.67.2B100	1.67.2B200	1.67.2B300	1.67.2B400	1.67.2B500	1.67.2B600	1.67.2B700
	€	32	36	38	41	55	80	103
Vite di Spinta Main Screw	Art. 672C	Cod. 1.67.2C100	1.67.2C200	1.67.2C300	1.67.2C400	1.67.2C500	1.67.2C600	1.67.2C700
	€	32	36	38	41	55	80	103
Impugnatura Vite Handle screw	Art. 672D	Cod. 1.67.2D100	1.67.2D200	1.67.2D300	1.67.2D400	1.67.2D500	1.67.2D600	1.67.2D700
	€	18	20	21	22	30	41	55
Vite calibrata ganaschia mobile Movable jaw shoulder screw	Art. 672E	Cod. 1.67.2E100	1.67.2E200	1.67.2E300	1.67.2E400	1.67.2E500	1.67.2E600	1.67.2E700
	€	12	13	14	16	19	26	38
Boccola Bushing	Art. 672F	Cod. 1.67.2F100	1.67.2F200	1.67.2F300	1.67.2F400	1.67.2F500	1.67.2F600	1.67.2F700
	€	18	20	21	22	30	41	55
Ghiera Nut	Art. 672G	Cod. 1.67.2G100	1.67.2G200	1.67.2G300	1.67.2G400	1.67.2G500	1.67.2G600	1.67.2G700
	€	12	13	14	16	19	26	38
Vite Screw	Art. 672H	Cod. 1.67.2H100	1.67.2H200	1.67.2H300	1.67.2H400	1.67.2H500	1.67.2H600	1.67.2H700
	€	8	8	8	8	8	10	10
Vite Screw	Art. 672I	Cod. 1.67.2I100	1.67.2I200	1.67.2I300	1.67.2I400	1.67.2I500	1.67.2I600	1.67.2I700
	€	7	7	7	7	7	8	8
Pattino ganaschia mobile Sliding plate for movable jaw	Art. 672J	Cod. 1.67.2J100	1.67.2J200	1.67.2J300	1.67.2J400	1.67.2J500	1.67.2J600	1.67.2J700
	€	10	10	12	12	12	19	19

Tipo (grandezza) morsa / Vise type (size)	1	2	3	
Apertura massima / Maximum spread	A	100	120	160
Art. 667 Morse di precisione con barraseno (0 - 90°) Precision sine vises (0 - 90°)	W	75	100	125
	B	32	45	50
	C	95	116	139
	D	214	244	303,5
	E	150	200	240
	kg	9	15	26
	Cod.	1.66.71000	1.66.72000	1.66.73000
	€	810	1.029	1.343

- Superfici rettificate, temperate e lappate
- **Ortogonalità e parallelismo: 0,003 mm / 100 mm**
- Ideali per operazioni di controllo, rettifica, elettroerosione e fresatura
- All case hardened and hardened HRC 60 steel
- **Squareness and parallelism: 0,003 mm / 100 mm**
- Ideal for grinding E.D.M. machine and for milling operations also for checking and control

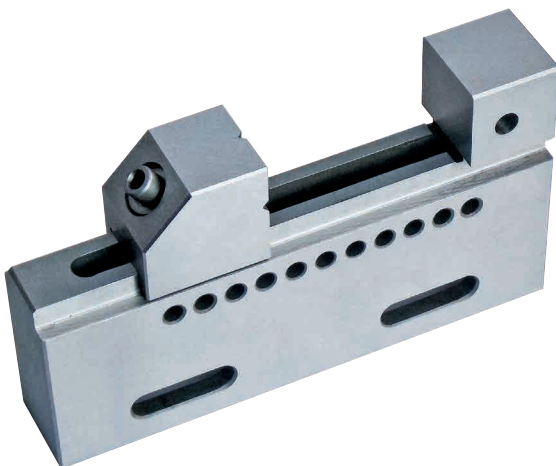


Dotazione standard: 2 chiavi di servizio Art. 376
 Standard equipment: 2 wrenches Art. 376

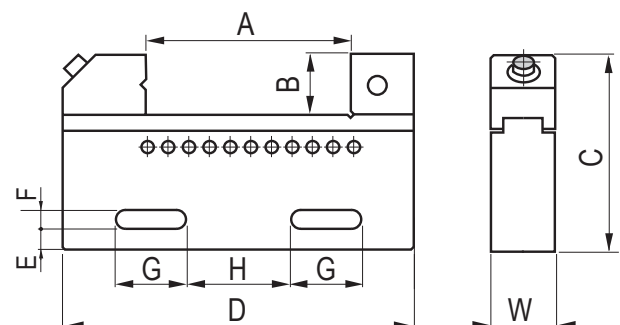


Tipo (grandezza) morsa / Vise type (size)	1	2	3	
Apertura massima / Maximum spread	A	100	150	214
Art. 668 Morse di precisione in acciaio inox Stainless steel precision vises	W	32	32	36
	B	30	35	40
	C	95	100	110
	D	170	226	300
	E	11	11	13,5
	F	9	9	9
	G	34	34	34
	H	50	70	70
	kg	4	5	6
	Cod.	1.66.81000	1.66.82000	1.66.83000
€	749	941	1.090	

- Costruita in acciaio inox. Durezza HRC50-55
 Parallelismo e ortogonalità 0,005-0,008. Alta resistenza alla corrosione.
 Ideali per operazioni di controllo e elettroerosione
- Made of high quality stainless steel. Hardness HRC50-55.
 Parallelism and squareness of 0,005-0,008 mm. High corrosion-resistance.
 Best for measurement, inspection, EDM and wire-cutting machining.



Dotazione standard: 1 chiave di servizio Art. 376
 Standard equipment: 1 wrench Art. 376



Diagrammi di serraggio / Clamping diagrams

OK Series

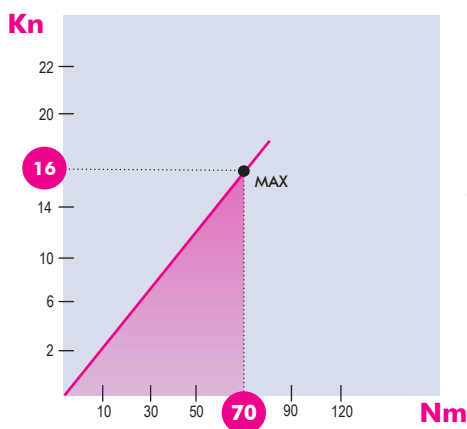
Diagrammi di serraggio meccanico con chiave dinamometrica

Mechanical clamping diagrams with torque wrench

Art. 666 / 666S

Morse tipo
Vises type

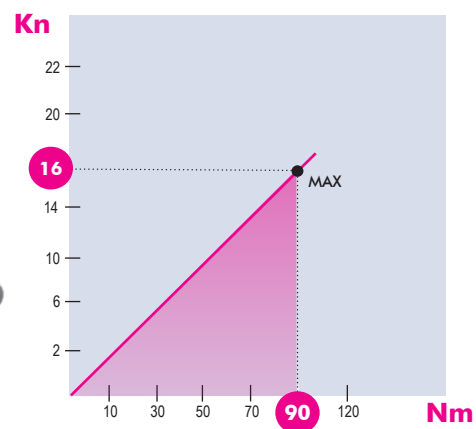
2



Art. 357

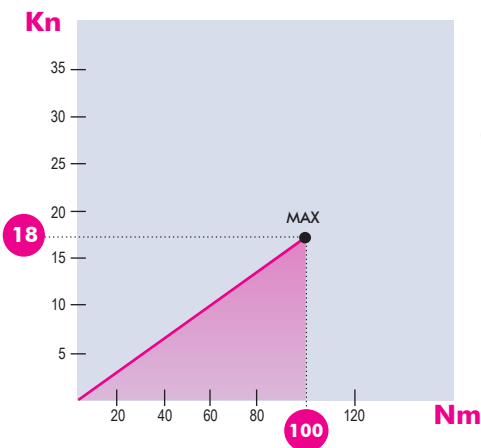
Morse tipo
Vises type

3



Morse tipo
Vises type

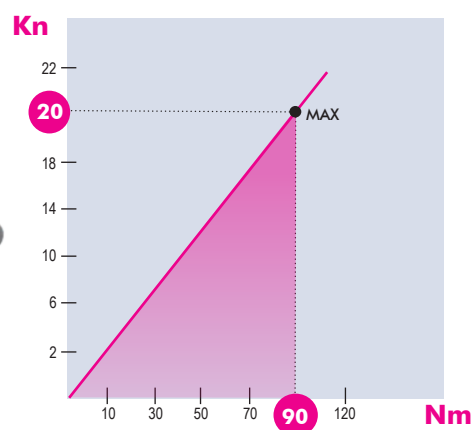
4-5-6-7



Art. 357

Morse tipo
Vises type

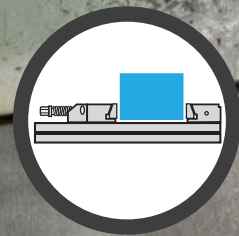
8



NB: Alcuni fattori, come la lubrificazione, lo staffaggio, gli attriti ed altro, possono modificare i valori indicati fino a $\pm 10\%$. Per un corretto utilizzo non superare i valori indicati nel grafico
 Some factor as lubrication, clamping on the machine table, frictions and more can modify above values within a $\pm 10\%$ range. For optimum operation do not exceed chart values.



GERARDI



2

2

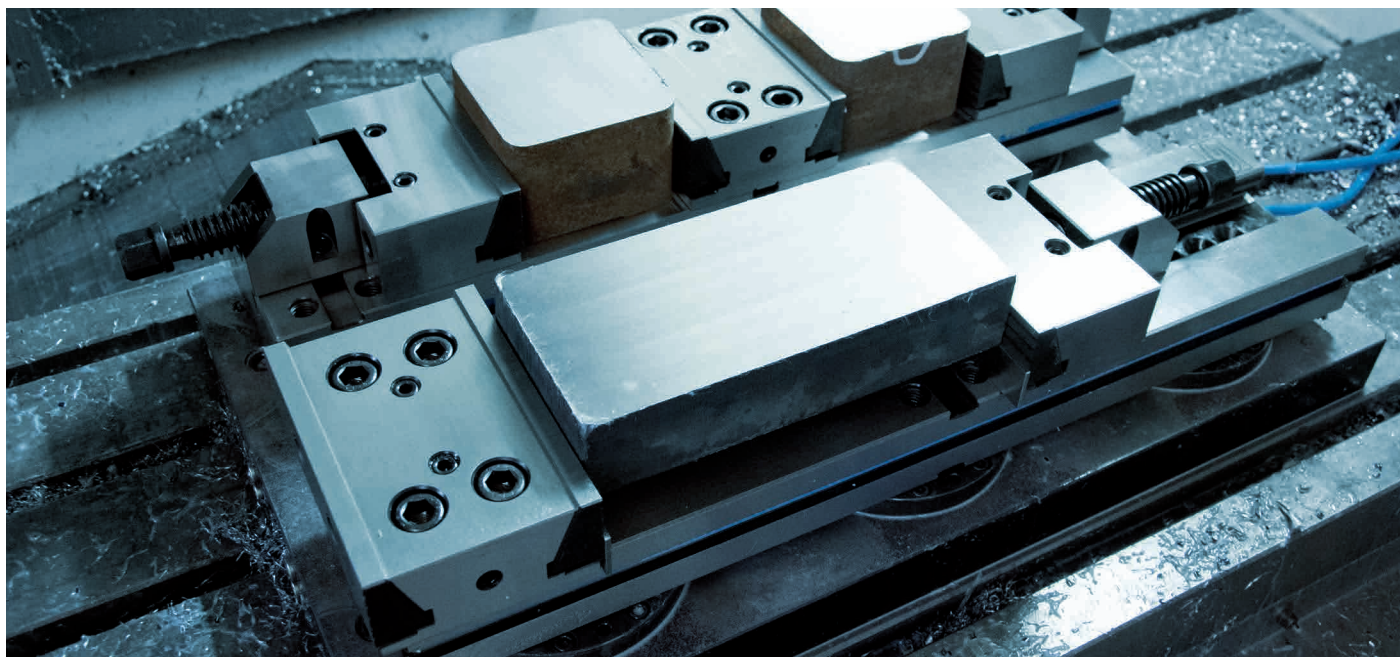
*To clamp workpieces
of unusual dimension!*

XL - XLFLEX

Morse e Cubi / Vises & Vise Towers

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30E	18								
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SIMBOLOGIA DATI TECNICI

TECHNICAL DATA ICONS

GANASCE JAWS							POSSIBILITÀ POSSIBILITY					
	Fissa Fixed	Mobile Movable	Intermedia Intermediate	Fissa con piastra singola Fixed with single plate	Fissa con piastra doppia Fixed with double plate	Ganasce sovrapponibili Stack Type Jaws		Serraggio di 1 particolare Clamping only 1 piece	Serraggio di 2 particolari Clamping 2 pieces	Montaggio sul fianco o in serie Side mounting or gang operation	Predisposizione Zero Point Zero Point ready	Cubi-morsa Vise tower
PIASTRE GANASCE JAW PLATES						PAGINE PAGES						
	Discendente Pull down	Piana Straight	Cambio rapido manuale Quick manual change XL FLEX	GRIP integrate integral GRIP	Inseri GRIP GRIP Inserts		Accessori & Ricambi Accessories & Spare Parts	Istruzioni corretto utilizzo Instruction for a proper use	Diagrammi forze di serraggio Clamping force diagrams			

OPZIONI LAVORAZIONI EXTRA

OPTIONS FOR EXTRA MACHINING

Nei codici, **STD** si riferisce agli articoli dei gruppi 1, 2 e 3.
 In codes, **STD** refers to articles in groups 1, 2 and 3.

Lavorazione extra Extra machining	Cod.	PRICE LIST €	Lavorazione extra Extra machining	Cod.	PRICE LIST €
AGGIUNTA di un foro calibrato ADDITION of a calibrated hole	MAN-010-STD	110	MONTAGGIO SEMPLICE SIMPLE ASSEMBLY	MAN-060-STD	-
AGGIUNTA di una chiave calibrata ADDITION of a calibrated key-way	MAN-020-STD	110	MONTAGGIO ed ALLINEAMENTO (Standard) (Standard) ASSEMBLY and ALIGNMENT	MAN-070-STD	110
PREDISPOSIZIONE SEMPLICE SIMPLE SET UP	MAN-030-STD	110	MONTAGGIO VERTICALE COMPLETE VERTICAL ASSEMBLY	MAN-080-STD	165
PREDISPOSIZIONE & MONTAGGIO COMPLETO COMPLETE SET UP & MOUNTING	MAN-040-STD	220	ALLINEAMENTO e CONTROLLO tramite DEA ALIGNMENT and CONTROL by DEA \ CMM	MAN-090-STD	440
MONTAGGIO PARZIALE PARTIAL ASSEMBLY	MAN-050-STD	110	TABULATO controllo DEA PRINTOUT DEA control	MAN-100-STD	220

Vedi pagina 2.34 per esempi applicativi - See page 2.34 for application examples

Morse / Vises

XL EXTRA LONG BASES

Come le morse Standard, ma con la base **mooolto** più lunga!
 As the Standard vises but with a **looonger** base



Precisione / Accuracy
 $\pm 0,02\text{mm}$



Durezza / Hardened
HRC 58±2

Grazie all'accurata scelta dei materiali impiegati ed allo studio dimensionale computerizzato dei componenti. Costruzione completamente in speciali leghe di acciaio ad alta resistenza, normalizzato, cementato e temprato con durezza 58 ±2 HRC. Tutto ciò al fine di conferire massima rigidità, elevate prestazioni e usura inesistente. A riprova di tutto ciò assicuriamo **5 ANNI DI GARANZIA** su tutto il programma morsa e organi meccanici in genere.

Thanks to the manufacturing with only the most suitable materials and to the structure of the vise components (developed using computer customised softwares and the experience gained during many years spent working on the specific field). High alloyed quality resistance steel, case hardened HRC 58 ±2, is used in manufacturing all the Gerardi vises and accessories in order to give maximum rigidity, high performances and no wear. As evidence we give **5 YEARS WARRANTY** on all the vises and mechanical components.

MODULARITÀ / MODULARITY

Tutte le morse ed accessori sono elementi componibili, intercambiabili e perfettamente allineabili fra loro e con i quali è possibile ottenere differenti soluzioni di bloccaggio. Secondo tale principio l'unico elemento che differenzia le attrezzature con identica larghezza di presa è la base (la cui lunghezza determina la massima apertura della morsa), mentre gli altri componenti sono identici. Mediante l'aggiunta o semplice sostituzione di alcuni particolari si può variare la tipologia di bloccaggio secondo le proprie esigenze utilizzando la stessa attrezzatura acquistata in un primo momento (bloccaggi singoli, con base girevole, doppi, verticali, di pezzi piani, tondi, piatti e grezzi, manuali, idraulici o pneumatici).

All vises and accessories are modular and components of all our vises will interchange with perfect alignment to provide different workholding solutions. With this basic principle the only difference between fixtures with the same width of clamping is the base (whose length determines the maximum opening of the vise), while the rest of components have same dimensions. Through the simple addition or substitution of some particulars You can change the type of clamping as Your needs require using the same fixture purchased before (single clamping, swivel base, double, vertical, smooth or round or flat or rough workpieces, manual, hydraulic or pneumatic).

DESIGN COMPATTO / SPACE SAVING DESIGN

La semplicità nonché la compattezza costruttiva consentono un'apertura notevole rispetto all'ingombro totale dell'attrezzatura. Inoltre lo stesso peso (solo 25 kg per una morsa da 150 mm di larghezza ganasce) è tale da consentire un facile trasferimento da una macchina all'altra.

The space saving design and solid construction allow a maximum blocking ratio to total overall dimension of the vise. Furthermore the weight (only 25 kg for a 150 mm jaw width vise) allows a simple moving from one machine to another.

SERRAGGI RAPIDI / QUICK CLAMPING

Grazie allo scorrimento del gruppo di serraggio nella guida della base (a cremagliera) fino in prossimità del pezzo da lavorare dove si adatterà automaticamente alla nicchia più vicina. L'operazione di serraggio si conclude agendo sulla vite di bloccaggio. Oltre a quello manuale meccanico, sono disponibili 4 ulteriori sistemi di serraggio intercambiabili e indipendenti: 1 - Idraulici / 2 - Pneumatici / 3 - Idraulici manuali / 4 - Idraulici elettrici. L'operazione è in termini di secondi.

Thanks to the clamping device sliding in the vise base slide (compact rack type) till the proximity of the workpiece. The clamping is completed with the main screw. Besides the manual mechanic system, 4 further interchangeable and independent clamping systems are available: 1- Hydraulic / 2- Pneumatic / 3- Manual hydraulic / 4- Electrical hydraulic. The change needs only few seconds.



Ganascia monoblocco
 Solid Guided Jaws

Entrambe le ganasce sono costruite in corpo unico (non esistono slitte o tasselli di fissaggio) per garantire una maggiore rigidità e nessuna flessione. Entrambe le piastre ganasce sono costruite con un **angolo di spinta verso il basso**. Ciò assicura, nel momento della chiusura, una trazione del pezzo contro la base della morsa (per trascinamento) e di conseguenza un bloccaggio sicuro e preciso.

Both jaws bodies are built in one solid piece (no slides or key-nuts): in order to guarantee higher rigidity & no bendings. Both jaw plates are manufactured with a **pull down angle**. This ensures, during the clamping operation, a downward run of the workpiece against the vise base (by dragging) and thus a precise and safety clamping

Serraggi indipendenti

Independent Clamping

Due Gruppi di serraggio indipendenti
 Two independent clamping devices



Ganacce fisse doppie

Double Fixed Jaws

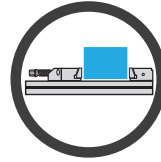
Ganacce fisse doppie posizionabili sia al centro (per serraggi doppi), sia all'estremità della base (per serraggi singoli di particolari di grosse dimensioni). La morsa XL doppia permette la lavorazione di un numero maggiore di pezzi sfruttando al massimo la lunghezza della tavola della macchina utensile.

Double fixed jaw position both in the center of the vise base (for double clamping) and at the end (for single big workpieces Clamping). Double XL vise allows to machine more workpieces using the total length of the machine tool, this means to increase productivity of the workpiece and of the machine

Quando lo spazio sulla tavola della macchina è limitato le morse XL sono la risposta per avere due morse in una trasformandosi rapidamente da morsa a doppio serraggio a morsa singola aumentando l'apertura di serraggio. La morsa XL doppia permette la lavorazione di un numero maggiore di pezzi sfruttando al massimo la lunghezza della tavola della macchina utensile, ciò significa aumentare la produttività delle fasi attive del ciclo e di macchina stessa in quanto abbiamo

La versione XL singola permette il serraggio di pezzi di dimensioni insolite e di piastre (con le appropriate ganasce). La notevole gamma di dimensioni e lunghezze delle basi garantisce il soddisfacimento delle più svariate necessità nonché una rigidità notevole dell'attrezzatura. A richiesta tutte le morse sono fornibili con tasselli di riferimento di varie grandezze o con fori calibrati.

Space on the machine table is sometimes limited: XL vises enable to have 2 vises in 1 because they can quickly change from double vise to single vise with very large opening. Double XL vise allows to machine more workpieces using the total length of the machine tool, this means to increase productivity of the workcycle and of the machine. Single XL vise allows to clamp pieces of unusual dimensions and plates (with the right jaws). The very wide range of widths and lengths of bases guarantees the satisfaction of the widest variety of works and a big rigidity of the fixture too. In conclusion all this allows to reduce to a minimum dead times/interruptions and consequently faster payback period of machines and fixtures. On request all vises can be supplied with key-nuts of different sizes or with ground holes.



SCAN IT TO SEE



THE WEB PAGE



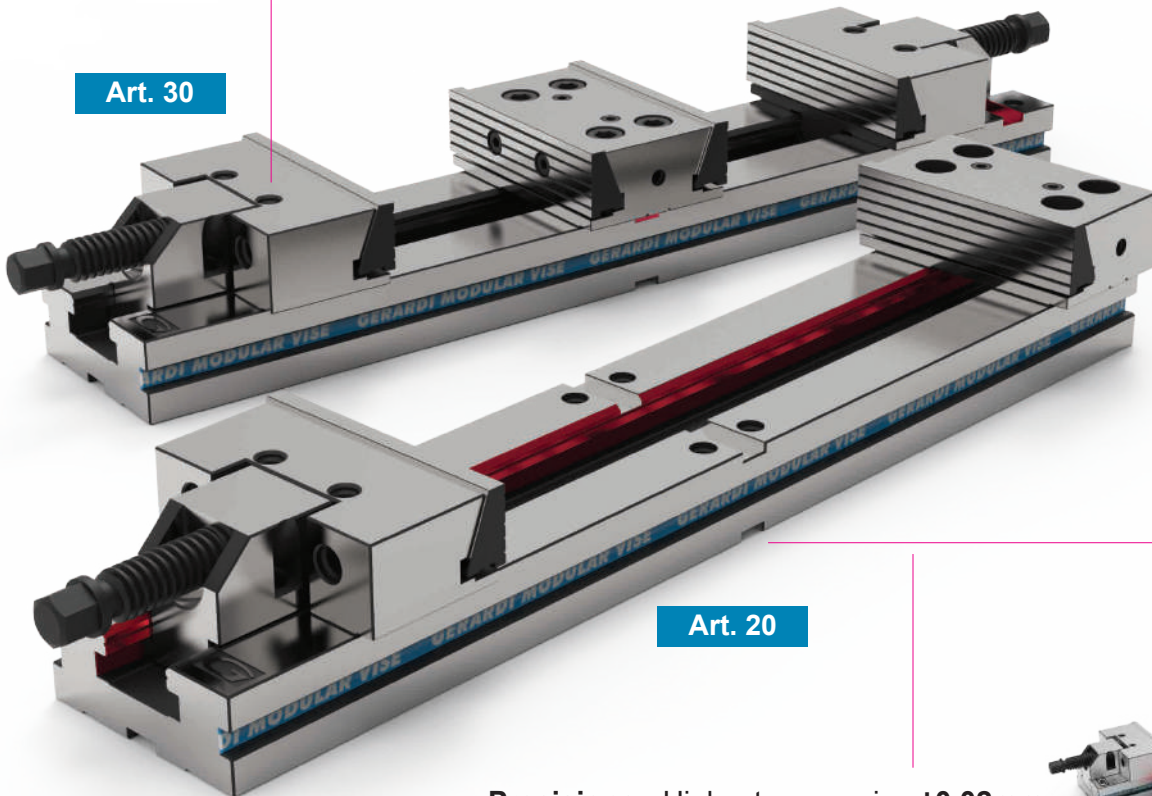
Ideali per particolari di grandi dimensioni!
To clamp workpieces of unusual dimension!

Chiavette Independent Clamping

Due serie di chiavette per due posizioni alternative delle ganasce fisse doppie
Two different keyways for two alternatives positions of the double fixed jaw



Art. 30



Art. 20

Precisione - Highest accuracies $\pm 0,02\text{mm}$

Slittone base con tutte le superfici di scorrimento ed accoppiamento rettificata. L'allineamento agli assi della macchina avviene grazie alle chiavette longitudinali e trasversali (16H7) o fori di posizionamento ($\varnothing 16\text{mm F7}$), a richiesta, previsti sulla base di ciascuna morsa. Naturalmente tutto ciò consente oltre alle precisioni dichiarate tempi di installazione ristrettissimi.

Solid vise base. Every sliding and coupling surface is ground. Centesimal tolerances are guaranteed by checking cycles with CNC measuring machine. The perfect alignment with the machine axis is given by longitudinal and cross keyways (16H7) or positioning holes ($\varnothing 16\text{mm F7}$), upon specific request, on the vise base. Of course this allows minimum of set up times and gang operations.



Staffe d'ancoraggio / Vise holding clamps

NEW
2024

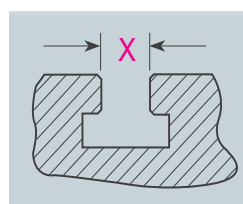
XL extra long bases

Coppia staffe di fissaggio Art.296, complete di vite e dado a "T"
Pair of vise holding clamps Art.296 complete of screw and "T" nuts

Esempio d'ordine per morsa tipo 3 su macchina con cave a T da 18mm: Art.296 T.3 X=18mm
Oppure con codice: 2.29.6300 X=18mm

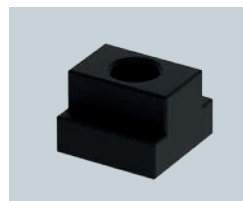
 Order example for Type 3 vise on machine with 18mm T-slots: Art.296 T.3 X=18mm

Also with code: 2.29.6300 X=18mm


Cava a T
T Slot

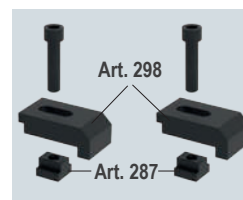
Specificare sempre la cava della vostra macchina

Always specify the machine T-slot dimension


Art.287 (Pag.4.34)
Dadi a T - T Nuts

Per fissaggio morsa alle cave a T della macchina

For vise clamping on the machine T-slots


Art.296

(Art.298 + Art.287)

Consigliate 3 coppie di staffe Art.296 per ogni morsa

Suggested 3 pairs of holding clamps Art.296 for each vise

Tipo (grandezza) morsa Vise type (size)		1				1 - 2				3 - 4				5 - 6																		
Art. 296 Coppia di staffe Holding clamps pair	Cava a T slot X	12	14	16	18	12*	14	16	18	20	18*	20	22	16	18	20	22	18*	20	22	16	18	20	22	18*	20	22					
	T-nuts Ref. N°	8	9	10	11	12	13	14	20	21	22	32	33	34	20	21	22	23	32	33	34	20	21	22	23	32	33	34				
	Filetto vite Screw thread	M8				M10				M12 *				M16				M12 *				M16				M12				M16 *		
1 X M8 	A	50	50	50	50	50	50	50	50	76	76	76	76	76	76	76	76	86	86	86	86	86	86	86	86	86	86	86	86			
	B	24	24	24	24	24	24	24	24	30	30	30	30	30	30	30	30	40	40	40	40	40	40	40	40	40	40	40	40			
	C	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	10	10	10	10	10	10	10	10	10	10	10	10			
	Ø D	8,5	11	13	17	11	13	17	17	13	17	17	17	13	17	17	17	13	17	17	17	13	17	17	17	13	17	17	17			
	E	10	10	10	10	10	10	10	10	13	13	13	13	13	13	13	13	15	15	15	15	15	15	15	15	15	15	15	15			
	Ø F	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	G	14	16	17,5	19	16	17,5	19	19	17	16	16	16	17	16	16	16	26	26	26	26	26	26	26	26	26	26	26	26			
	G1	17	15	13	9	15	13	9	9	22	15	15	15	22	15	15	15	27	27	27	27	27	27	27	27	27	27	27	27			
	H	34	34	34	34	34	34	34	34	42	42	42	42	42	42	42	42	50	50	50	50	50	50	50	50	50	50	50	50			
	I	8	10	10	10	10	10	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	J	4	4	4	4	4	4	4	4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10			
T ± 0,1	15	15	15	15	15	15	15	15	20	20	20	20	20	20	20	20	26	26	26	26	26	26	26	26	26	26	26	26				
Cod.	2.29.61000 / M8	2.29.61000 / M10	2.29.61000 / M12	2.29.61000 / M16	2.29.61000 / M10	2.29.61000 / M12	2.29.61000 / M16	2.29.61000 / M12	2.29.61000 / M16	2.29.63000 / M12	2.29.63000 / M12	2.29.63000 / M12	2.29.63000 / M12	2.29.63000 / M12	2.29.63000 / M12	2.29.63000 / M12	2.29.65000 / M12	2.29.65000 / M12	2.29.65000 / M12	2.29.65000 / M12	2.29.65000 / M12	2.29.65000 / M12	2.29.65000 / M12	2.29.65000 / M12	2.29.65000 / M12	2.29.65000 / M12						
€	45	45	45	45	45	45	45	45	56	56	56	56	56	56	56	56	88	88	88	88	88	88	88	88	88	88	88	88				

*Scelta consigliata - Suggested choice

*Scelta NON consigliata - NO Suggested choice

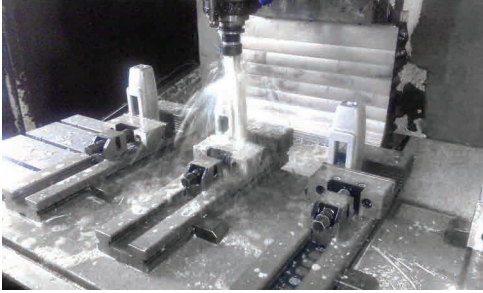
Soluzioni personalizzate / Customized solutions

XL extra long bases

2

Soluzioni personalizzate a tutti i vostri problemi di serraggio

Customized solutions for all your clamping problems

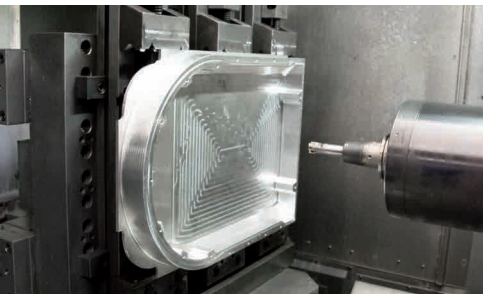


Morse XL

XL Vises

Morse XL montate orizzontalmente per lavorazioni su centro verticale

XL modular vises horizontally assembled for vertical machining centre

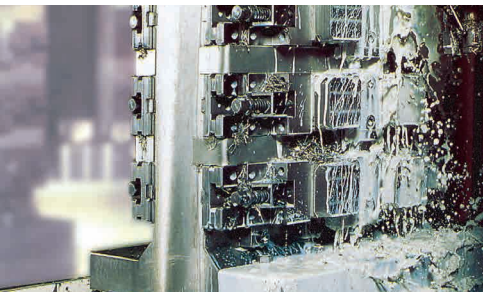


Morse XL

XL Vises

Morse XL montate verticalmente su cubo portapezzi per lavorazioni su centro orizzontale

XL Vises vertically assembled on a tombstone for horizontal machining centre.



Morse XL

XL Vises

Morse XL doppie montate su spalla in orizzontale

XL double vises horizontally assembled on a 2 sides tombstone

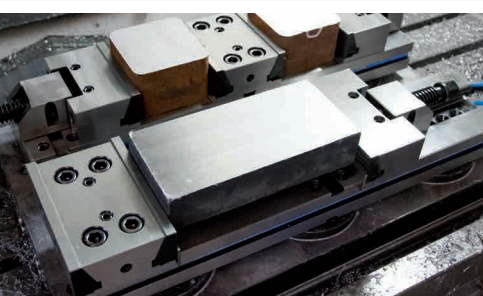


Versione singola

Single version

La versione XL singola permette il serraggio anche di pezzi di dimensioni insolite

Single XL vise allows to clamp also pieces of unusual dimensions



Morse modulari

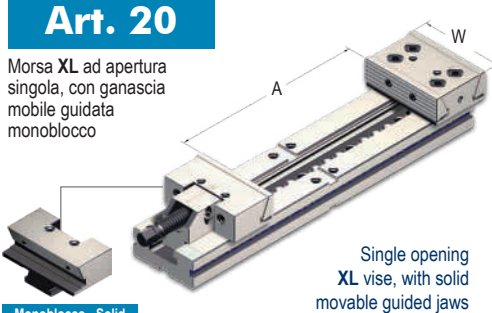
Modular Vises

Tutte le morse ed accessori sono componibili fra loro e con tali accessori è possibile trasformare o riconfigurare la morsa per ottenere differenti soluzioni di serraggio

All vises and accessories are modular and components of all our vises will interchange with perfect alignment to upgrade your vise and provide different workholding solutions

2

Tipo (grandezza) morsa / Vise type (size)	kN	1		2		3		4	
		16 kN	25 kN	30 kN	30 kN	30 kN	30 kN	30 kN	30 kN
Apertura massima / Maximum spread	A	290	320	360	460	400	500	600	700
	W	100	125	150		175			
	B	30	40	50		60			
	C	35	40	50		58			
	D	460	520	580	680	666	766	866	966
	G	75	95	125		145			
	kg	10	17	32	35	47	52	56	61
	Cod.	3.21.00000	3.22.10000	3.23.20000	3.23.30000	3.24.20000	3.24.30000	3.24.40000	3.24.50000
	€	852	1.147	1.425	1.578	1.663	1.828	1.990	2.159



Monoblocco - Solid

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

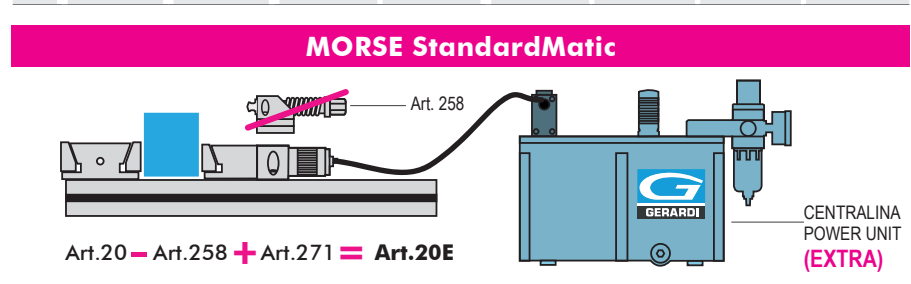
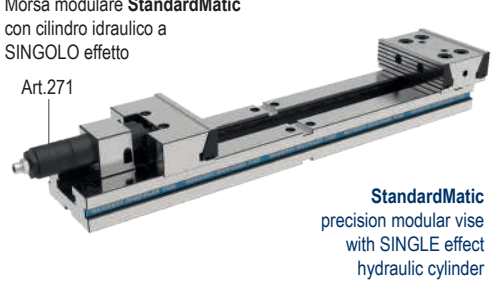
Art. 313	Cod.	4.31.3100C	4.31.3200C	4.31.3300C	4.31.3400C
Coppia di Parallele magnetiche / Pair of magnetic parallel plates	€	73	93	116	136
	H	23	33	43	53

Art. 212	Cod.	1.21.21000	1.21.22000	1.21.23000	1.21.24000
Ganascia mobile intermedia (da usare con Art. 313) / Intermediate movable jaw (to be used with Art. 313)	€	105	128	165	208

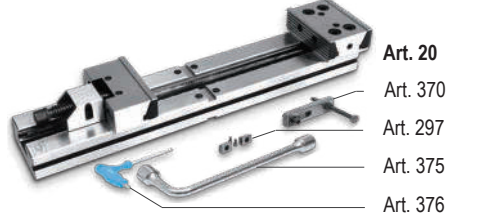
Art. 217	Cod.	2.21.71000	2.21.72000	2.21.73000	2.21.74000
Ganascia mobile prismatica / Prismatic movable jaw	€	164	137	194	262

Art. 242G	Cod.	1.24.2G100	1.24.2G200	1.24.2G300	1.24.2G400
Piastra ganascia con inserti GRIP completa di parallela magnetica / Jaw plate with GRIP inserts with magnetic parallel	€	139	150	194	217

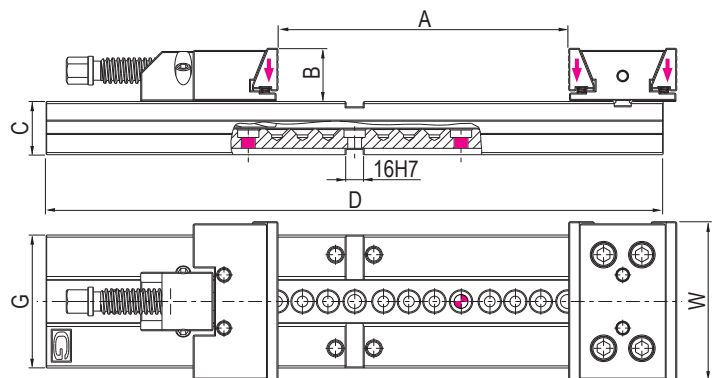
Art. 20E	Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41							
Morsa modulare StandardMatic con cilindro idraulico a SINGOLO effetto	€	1.102	1.407	1.705	1.858	1.978	2.142	2.305	2.474



- Dotazione standard:
- 1 arresto laterale Art. 370
 - 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
 - 1 chiave a pipa Art. 375 ■ 1 chiave a "T" Art. 376
- Extra per ogni foro calibrato (tolleranza F7) - MAN-010-STD : euro 110,00
 Extra per ogni chiave (tolleranza H7) - MAN-020-STD : euro 110,00



- Standard equipment:
- 1 workstop Art. 370
 - 1 pair of positioning key-nuts for 16 mm slot Art. 297
 - 1 box wrench Art. 375 ■ 1 T-wrench Art. 376
- Extra charge for each calibrated hole (F7 tolerance) - MAN-010-STD : euro 110,00
 Extra charge for each calibrated key nut (F7 tolerance) - MAN-020-STD : euro 110,00


 Vedi gruppo 4 per gamma completa accessori
 See group 4 for complete range of accessories

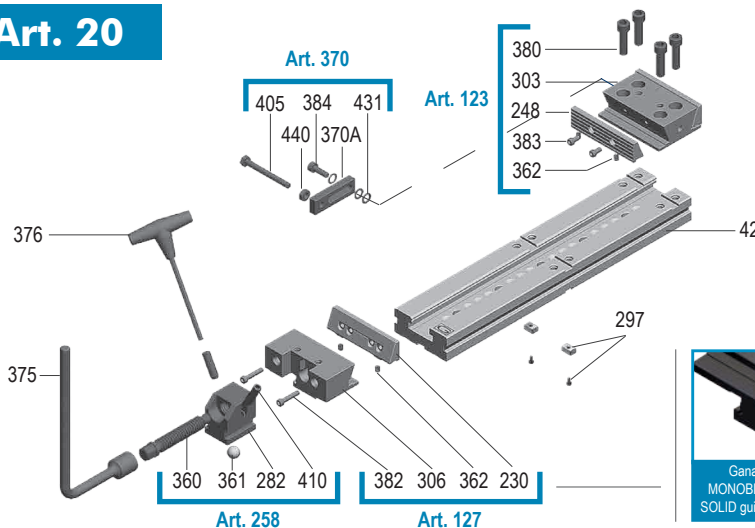
	5 40 kN					6 40 kN						
	A	500	600	700	800	900	500	600	700	800	900	1000
W	200					300						
B	65					80						
C	70					78						
D	805	905	1005	1105	1205	900	1000	1100	1200	1300	1400	1500
G	170					195						
kg	64	69	74	79	84	95	105	115	125	135	145	155
Cod.	3.25.20000	3.25.30000	3.25.40000	3.25.50000	3.25.60000	3.26.20000	3.26.30000	3.26.40000	3.26.50000	3.26.60000	3.26.70000	3.26.80000
€	2.821	3.147	3.476	3.802	4.129	3.932	4.328	4.721	5.112	5.509	5.898	6.290

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

4.31.3500C			4.31.3600C									
Art. 313	155		176									
	53		68									
1.21.25000			1.21.26000									
Art. 212	250		346									
2.21.75000			2.21.76000									
Art. 217	346		589									
1.24.2G500			1.24.2G600									
Art. 242G	297		387									
Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41											
€	3.204	3.529	3.857	4.184	4.512	4.223	4.617	5.011	5.402	5.797	6.190	6.580

StandardMatic VISES

Centralina Pneumoidraulica Art.393/394/395 (EXTRA)
 Pneumohydraulic Power Unit Art.393/394/395 (EXTRA)

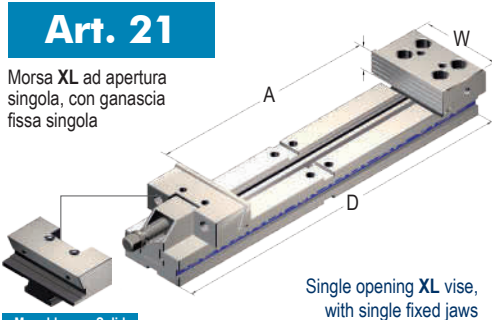
Art. 20


Art.	Pag.	Art.	Pag.
42	2.32	375	4.35
230	4.9	376	4.35
248	4.9	380	4.28
282	4.36	382	4.28
297	4.34	383	4.28
303	4.29	384	4.28
306	4.29	405	4.35
360	4.36	410	4.36
361	4.36	431	4.28
362	4.28	440	4.28
370A	4.35	-	-


 Ganascia Mobile
 MONOBLOCCO guidata
 SOLID guided movable jaw

2

Tipo (grandezza) morsa / Vise type (size)	kN	1		2		3		4	
		16 kN	25 kN	30 kN	30 kN	30 kN	30 kN	30 kN	
Apertura massima / Maximum spread	A	290	320	360	460	400	500	600	700
	W	100	125	150		175			
	B	30	40	50		60			
	C	35	40	50		58			
	D	460	520	580	680	666	766	866	966
	G	75	95	125		145			
	kg	10	17	32	35	47	52	56	61
	Cod.	2.21.12900	2.21.23200	2.21.33600	2.21.34600	2.21.44000	2.21.45000	2.21.46000	2.21.47000
	€	852	1.147	1.425	1.578	1.663	1.828	1.990	2.159



Monoblocco - Solid

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

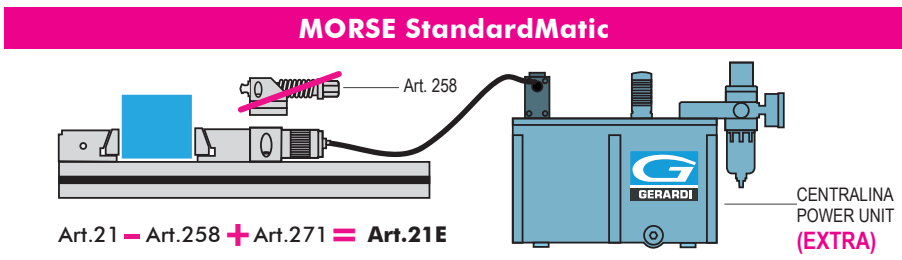
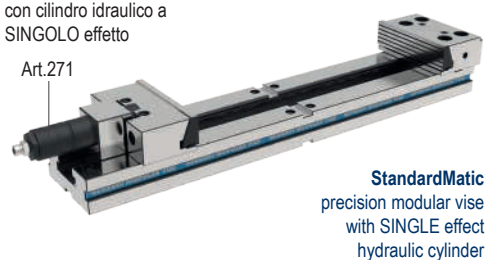
Art. 313	Cod.	4.31.3100C	4.31.3200C	4.31.3300C	4.31.3400C
Coppia di Parallele magnetiche / Pair of magnetic parallel plates	€	73	93	116	136
	H	23	33	43	53

Art. 212	Cod.	1.21.21000	1.21.22000	1.21.23000	1.21.24000
Ganascia mobile intermedia (da usare con Art. 313) / Intermediate movable jaw (to be used with Art. 313)	€	105	128	165	208

Art. 217	Cod.	2.21.71000	2.21.72000	2.21.73000	2.21.74000
Ganascia mobile prismatica / Prismatic movable jaw	€	164	137	194	262

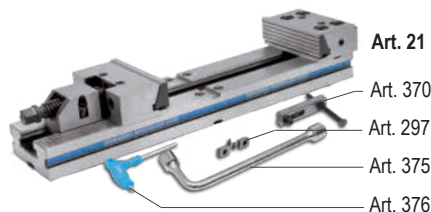
Art. 242G	Cod.	1.24.2G100	1.24.2G200	1.24.2G300	1.24.2G400
Piastra ganascia con inserti GRIP completa di parallela magnetica / Jaw plate with GRIP inserts with magnetic parallel	€	139	150	194	217

Art. 21E	Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41							
Morsa modulare StandardMatic con cilindro idraulico a SINGOLO effetto	€	1.102	1.407	1.705	1.858	1.978	2.142	2.305	2.474



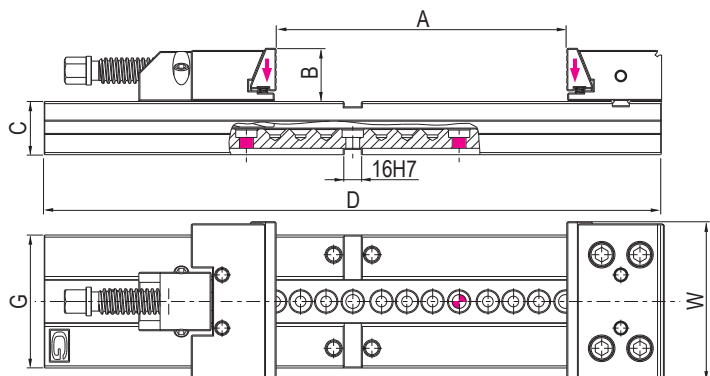
Dotazione standard:

- 1 arresto laterale Art. 370
 - 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
 - 1 chiave a pipa Art. 375 ■ 1 chiave a "T" Art. 376
- Extra per ogni foro calibrato (tolleranza F7) - MAN-010-STD : euro 110,00
 Extra per ogni chiovetta (tolleranza H7) - MAN-020-STD : euro 110,00



Standard equipment:

- 1 workshop Art. 370
 - 1 pair of positioning key-nuts for 16 mm slot Art. 297
 - 1 box wrench Art. 375 ■ 1 T-wrench Art. 376
- Extra charge for each calibrated hole (F7 tolerance) - MAN-010-STD : euro 110,00
 Extra charge for each calibrated key nut (F7 tolerance) - MAN-020-STD : euro 110,00


 Vedi gruppo 4 per gamma completa accessori
 See group 4 for complete range of accessories

	5 40 kN					6 40 kN						
A	500	600	700	800	900	500	600	700	800	900	1000	1100
W	200					300						
B	65					80						
C	70					78						
D	805	905	1005	1105	1205	900	1000	1100	1200	1300	1400	1500
G	170					195						
kg	64	69	74	79	84	95	105	115	125	135	145	155
Cod.	2.21.55000	2.21.56000	2.21.57000	2.21.58000	2.21.59000	2.21.65000	2.21.66000	2.21.67000	2.21.68000	2.21.69000	2.21.61000	2.21.61100
€	2.821	3.147	3.476	3.802	4.129	3.932	4.328	4.721	5.112	5.509	5.898	6.290

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

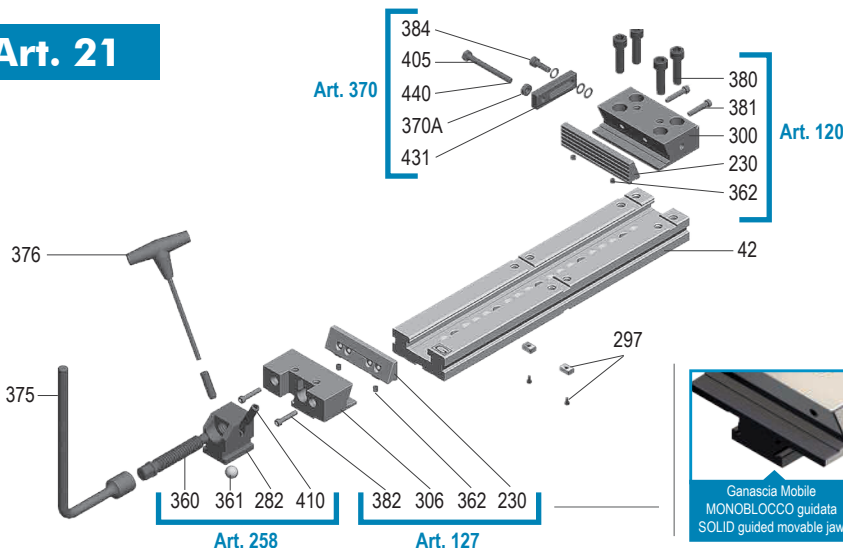
4.31.3500C	Art. 313	155		4.31.3600C	176							
53				68								
1.21.25000	Art. 212	250		1.21.26000	346							
2.21.75000	Art. 217	346		2.21.76000	589							
1.24.2G500	Art. 242G	297		1.24.2G600	387							
Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41											
€	3.204	3.529	3.857	4.184	4.512	4.223	4.617	5.011	5.402	5.797	6.190	6.580

StandardMatic VISES



Centralina Pneumoidraulica Art.393/394/395 (EXTRA)
Pneumohydraulic Power Unit Art.393/394/395 (EXTRA)

Art. 21

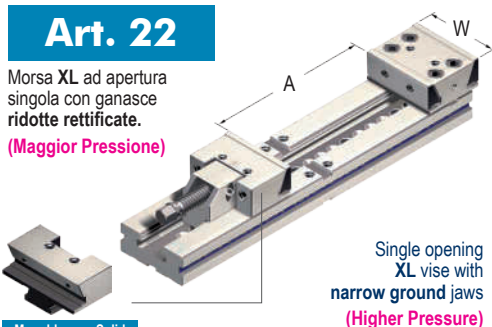


Art.	Pag.	Art.	Pag.
42	2.32	375	4.35
230	4.9	376	4.35
248	4.9	380	4.28
282	4.36	382	4.28
297	4.34	383	4.28
300	4.29	384	4.28
306	4.29	405	4.35
360	4.36	410	4.36
361	4.36	431	4.28
362	4.28	440	4.28
370A	4.35	-	-



2

Tipo (grandezza) morsa / Vise type (size)	kN	1		2		3		4	
		16 kN	25 kN	30 kN	30 kN	30 kN	30 kN	30 kN	30 kN
Apertura massima / Maximum spread	A	290	320	360	460	400	500	600	700
	W	75	95	125			145		
	B	30	40	50			60		
	C	35	40	50			58		
	D	460	520	580	680	666	766	866	966
	G	75	95	125			145		
	kg	9.4	15.8	29.8	32.8	44.8	49.8	54.8	59.8
	Cod.	3.21.00220	3.22.10220	3.23.20220	3.23.30220	3.24.20220	3.24.30220	3.24.40220	3.24.50220
	€	948	1.274	1.583	1.753	1.846	2.031	2.210	2.398



Monoblocco - Solid

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

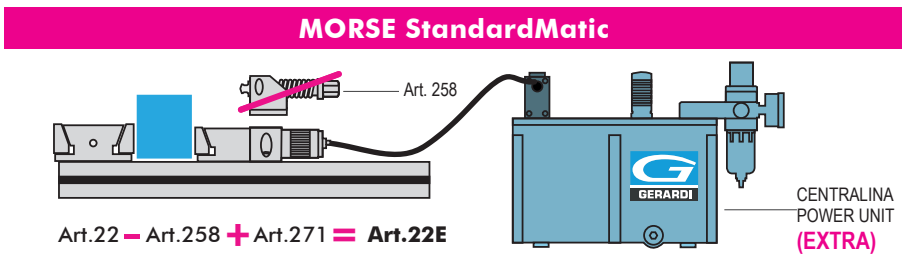
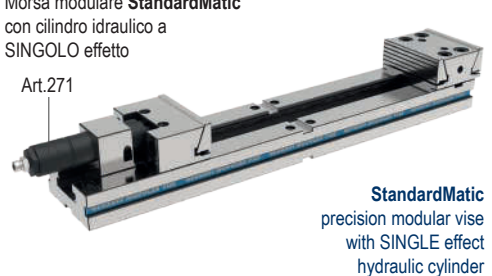
Art. 313R	Cod.	4.31.3R10C	4.31.3R20C	4.31.3R30C	4.31.3R40C
Coppia di Parallele magnetiche Pair of magnetic parallel plates	€	73	93	116	136
	H	23	33	43	53

Art. 213	Cod.	1.21.31000	1.21.32000	1.21.33000	1.21.34000
Ganascia mobile intermedia (da usare con Art. 313R) Intermediate movable jaw (to be used with Art. 313R)	€	105	128	165	208

Art. 218	Cod.	2.21.81000	2.21.82000	2.21.83000	2.21.84000
Ganascia mobile prismatica Prismatic movable jaw	€	164	137	194	262

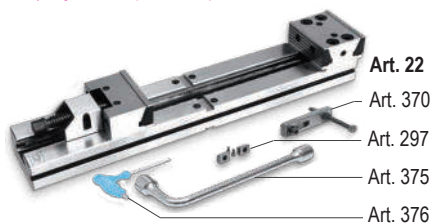
Art. 243G	Cod.	1.24.3G100	1.24.3G200	1.24.3G300	1.24.3G400
Piastra ganascia ridotta con inserti GRIP completa di parallela magnetica Narrow width jaw plate with GRIP inserts with magnetic parallel	€	139	150	161	217

Art. 22E	Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41							
Morsa modulare StandardMatic con cilindro idraulico a SINGOLO effetto	€	1.195	1.534	1.864	2.033	2.162	2.346	2.525	2.714



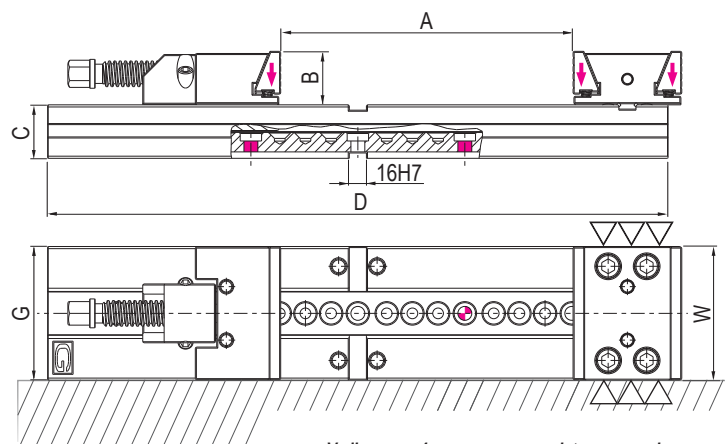
Dotazione standard:

- 1 arresto laterale Art. 370
 - 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
 - 1 chiave a pipa Art. 375 ■ 1 chiave a "T" Art. 376
- Extra per ogni foro calibrato (tolleranza F7) - MAN-010-STD : euro 110,00
 Extra per ogni chiavevta (tolleranza H7) - MAN-020-STD : euro 110,00



Standard equipment:

- 1 workstop Art. 370
 - 1 pair of positioning key-nuts for 16 mm slot Art. 297
 - 1 box wrench Art. 375 ■ 1 T-wrench Art. 376
- Extra charge for each calibrated hole (F7 tolerance) - MAN-010-STD : euro 110,00
 Extra charge for each calibrated key nut (F7 tolerance) - MAN-020-STD : euro 110,00


 Vedi gruppo 4 per gamma completa accessori
 See group 4 for complete range of accessories

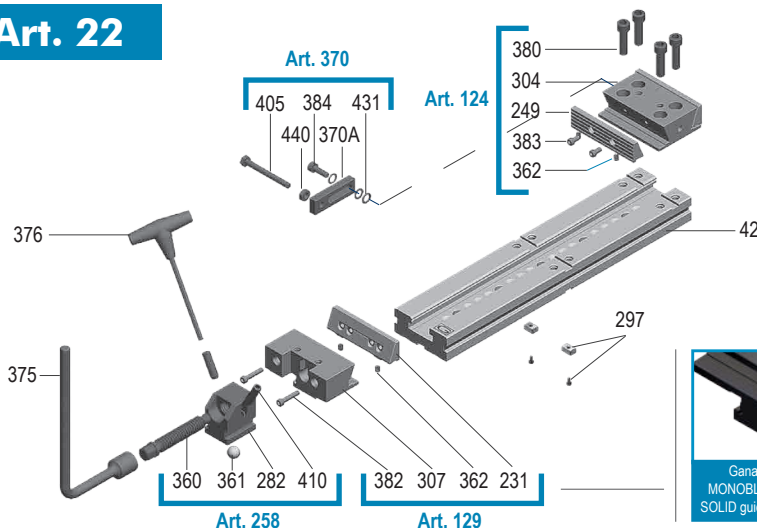
	5 40 kN					6 40 kN						
	A	500	600	700	800	900	500	600	700	800	900	1000
W	170					195						
B	65					80						
C	70					78						
D	805	905	1005	1105	1205	900	1000	1100	1200	1300	1400	1500
G	170					195						
kg	82.5	88.5	96.5	103.5	110.5	116	129	139	149	159	169	179
Cod.	3.25.20220	3.25.30220	3.25.40220	3.25.50220	3.25.60220	3.26.20220	3.26.30220	3.26.40220	3.26.50220	3.26.60220	3.26.70220	3.26.80220
€	3.135	3.497	3.863	4.225	4.588	4.370	4.808	5.245	5.681	6.117	6.554	6.989

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art.	Price	Image	Art.	Price								
4.31.3R50C Art. 313R	155		4.31.3R60C	176								
	53			68								
1.21.35000 Art. 213	250		1.21.36000	346								
2.21.85000 Art. 218	346		2.21.86000	589								
1.24.3G500 Art. 243G	264		1.24.3G600	356								
Cod. Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41												
€	3.516	3.879	4.245	4.608	4.971	4.660	5.098	5.535	5.970	6.407	6.845	7.280

StandardMatic VISES

Centralina Pneumoidraulica Art.393/394/395 (EXTRA)
 Pneumohydraulic Power Unit Art.393/394/395 (EXTRA)

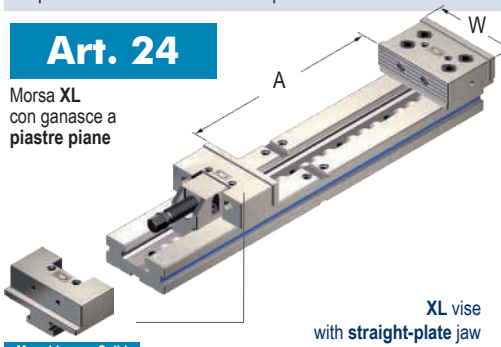
Art. 22


Art.	Pag.	Art.	Pag.
42	2.32	375	4.35
231	4.9	376	4.35
249	4.9	380	4.28
282	4.36	382	4.28
297	4.34	383	4.28
304	4.29	384	4.28
307	4.29	405	4.35
360	4.36	410	4.36
361	4.36	431	4.28
362	4.28	440	4.28
370A	4.35	-	-



2

Tipo (grandezza) morsa / Vise type (size)	kN	1		2		3		4	
		16 kN	25 kN	30 kN	30 kN	30 kN	30 kN	30 kN	30 kN
Apertura massima / Maximum spread	A	290	320	360	460	400	500	600	700
	W	100	125	150			175		
	B	30	40	50			60		
	C	35	40	50			58		
	D	460	520	580	680	666	766	866	966
	G	75	95	125			145		
	kg	9.4	15.8	29.8	32.8	44.8	49.8	54.8	59.8
	Cod.	2.24.12900	2.24.23200	2.24.33600	2.24.34600	2.24.44000	2.24.45000	2.24.46000	2.24.47000
	€	852	1.147	1.425	1.578	1.663	1.828	1.990	2.159


AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

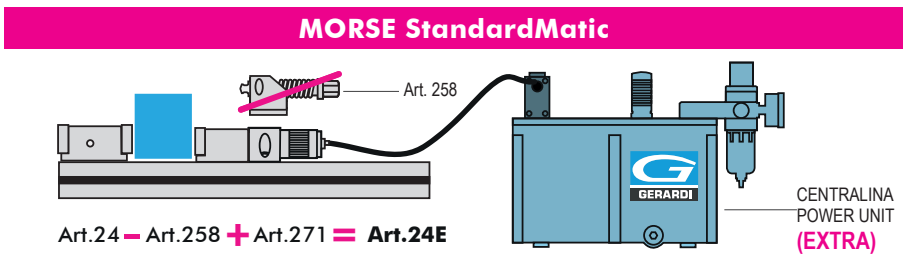
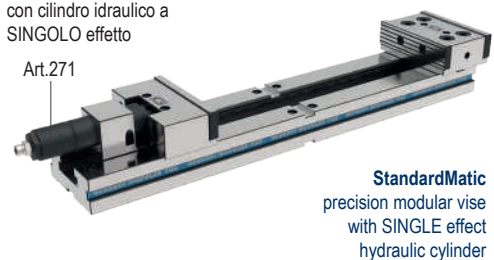
Art. 313 Coppia di Parallele magnetiche Pair of magnetic parallel plates	Cod.		4.31.3100C		4.31.3200C		4.31.3300C		4.31.3400C	
		€	73	93	116				136	
	H	23	33	43				53		

Art. 212 Ganascia mobile intermedia (da usare con Art. 313) Intermediate movable jaw (to be used with Art. 313)	Cod.		1.21.21000		1.21.22000		1.21.23000		1.21.24000	
		€	105	128	165				208	

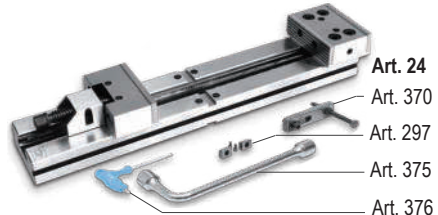
Art. 246 Piastra piana in acciaio lavorabile Machinable steel straight jaw plate	Cod.		1.65.16200		1.65.26200		1.65.36200		1.65.46200	
		€	66	73	86				105	

Art. 246G Piastra ganascia con inserti GRIP completa di parallela magnetica Jaw plate with GRIP inserts with magnetic parallel	Cod.		1.24.6G100		1.24.6G200		1.24.6G300		1.24.6G400	
		€	139	150	194				217	

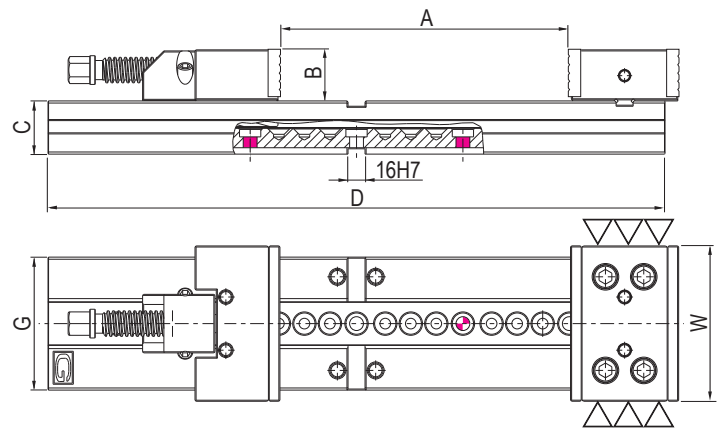
Art. 24E Morsa modulare StandardMatic con cilindro idraulico a SINGOLO effetto NEW 2024	Cod.		Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41							
		€	1.102	1.407	1.705	1.858	1.978	2.142	2.305	2.474



- Dotazione standard:
- 1 arresto laterale Art. 370
 - 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
 - 1 chiave a pipa Art. 375 ■ 1 chiave a "T" Art. 376
- Extra per ogni foro calibrato (tolleranza F7) - MAN-010-STD : euro 110,00
Extra per ogni chiavevitta (tolleranza H7) - MAN-020-STD : euro 110,00



- Standard equipment:
- 1 workstop Art. 370
 - 1 pair of positioning key-nuts for 16 mm slot Art. 297
 - 1 box wrench Art. 375 ■ 1 T-wrench Art. 376
- Extra charge for each calibrated hole (F7 tolerance) - MAN-010-STD : euro 110,00
Extra charge for each calibrated key nut (F7 tolerance) - MAN-020-STD : euro 110,00



Vedi gruppo 4 per gamma completa accessori
See group 4 for complete range of accessories

	5 40 kN					6 40 kN						
	A	500	600	700	800	900	500	600	700	800	900	1000
W	200					300						
B	65					80						
C	70					78						
D	805	905	1005	1105	1205	900	1000	1100	1200	1300	1400	1500
G	170					195						
kg	82.5	88.5	96.5	103.5	110.5	116	129	139	149	159	169	179
Cod.	2.24.55000	2.24.56000	2.24.57000	2.24.58000	2.24.59000	2.24.65000	2.24.66000	2.24.67000	2.24.68000	2.24.69000	2.24.61000	2.24.61100
€	2.821	3.147	3.476	3.802	4.129	3.932	4.328	4.721	5.112	5.509	5.898	6.290

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

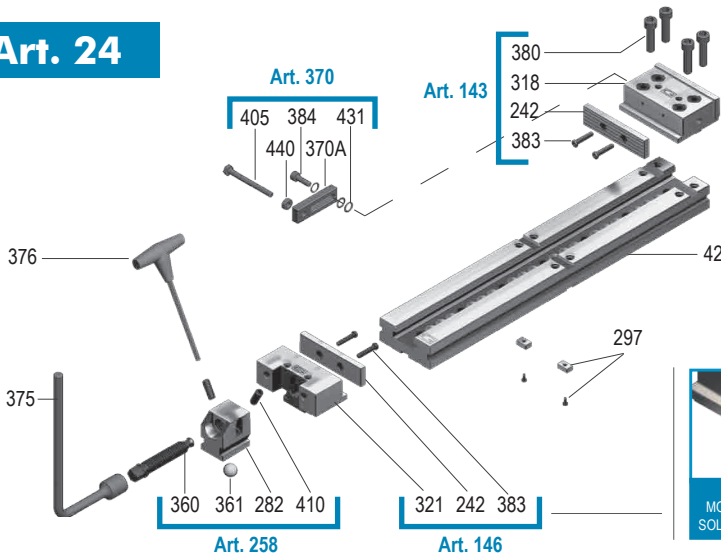
4.31.3500C	Art. 313	155		4.31.3600C		176						
		53				68						
1.21.25000	Art. 212	250		1.21.26000		346						
1.65.56200	Art. 246	146		1.65.66200		194						
1.24.6G500	Art. 246G	297		1.24.6G600		387						
Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41											
€	3.204	3.529	3.857	4.184	4.512	4.223	4.617	5.011	5.402	5.797	6.190	6.580

StandardMatic VISES



Centralina Pneumoidraulica Art.393/394/395 (EXTRA)
Pneumohydraulic Power Unit Art.393/394/395 (EXTRA)

Art. 24



Art.	Pag.	Art.	Pag.
42	2.32	380	4.28
242	4.11	383	4.28
282	4.36	384	4.28
297	4.34	405	4.35
318	4.30	410	4.36
321	4.30	431	4.28
360	4.36	440	4.28
361	4.36	-	-
370A	4.35	-	-
375	4.35	-	-
376	4.35	-	-



Tipo (grandezza) morsa
 Vise type (size)

Art. 25

Morsa XL con ganasce a piastre GRIP a forte serraggio (ridotte rettificata)

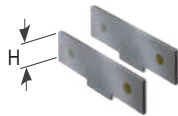


XL vise with GRIP jaw-plates for strongest clamping (narrow width ground)

Monoblocco - Solid

	1	2	3	4					
	16 kN	25 kN	30 kN	30 kN					
Apertura massima / Maximum spread	A	290	320	360	460	400	500	600	700
W	75	95	125	145					
B	30	40	50	60					
C	35	40	50	58					
D	460	520	580	680	666	766	866	966	
G	75	95	125	145					
kg	9.4	15.8	29.8	32.8	44.8	49.8	54.8	59.8	
Cod.	2.25.12900	2.25.23200	2.25.33600	2.25.34600	2.25.44000	2.25.45000	2.25.46000	2.25.47000	
€	948	1.274	1.583	1.753	1.846	2.031	2.210	2.398	

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !
Art. 313R

 Coppia di Parallele magnetiche
 Pair of magnetic parallel plates


Cod.	4.31.3R10C	4.31.3R20C	4.31.3R30C	4.31.3R40C
€	73	93	116	136
H	23	33	43	53

Art. 218

 Ganasce mobile prismatica
 Prismatic movable jaw


Cod.	2.21.81000	2.21.82000	2.21.83000	2.21.84000
€	164	137	194	262

Art. 247

 Piastra piana in acciaio lavorabile
 Machinable steel straight jaw plate


Cod.	1.65.17200	1.65.27200	1.65.37200	1.65.47200
€	66	73	86	105

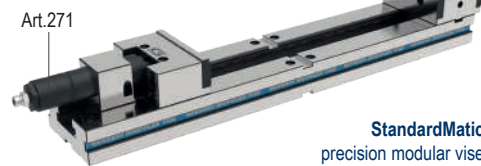
Art. 247G

 Piastra ganasce ridotta con inserti GRIP completa di parallela magnetica
 Narrow width jaw plate with GRIP inserts with magnetic parallel


Cod.	1.24.7G100	1.24.7G200	1.24.7G300	1.24.7G400
€	139	150	194	217

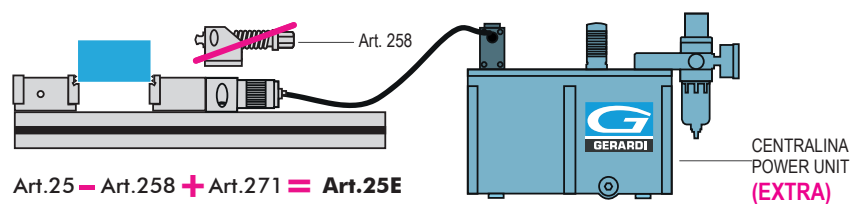
Art. 25E
NEW 2024

Morsa modulare StandardMatic con cilindro idraulico a SINGOLO effetto



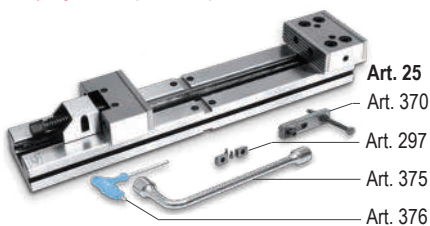
StandardMatic precision modular vise with SINGLE effect hydraulic cylinder

Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41							
€	1.195	1.534	1.864	2.033	2.162	2.346	2.525	2.714

MORSE StandardMatic


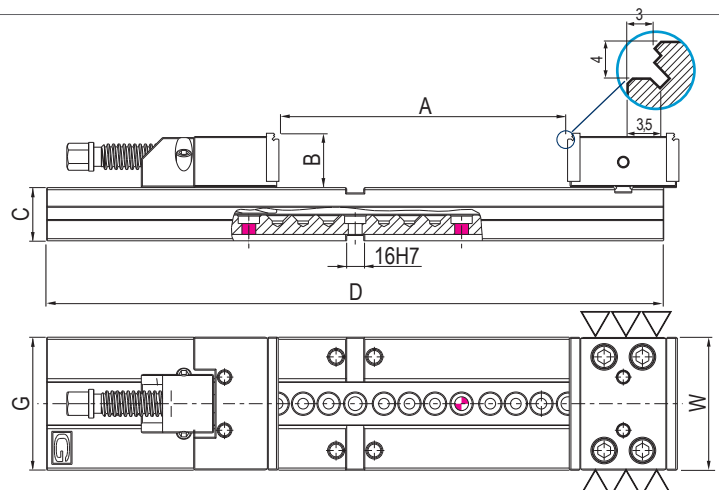
Dotazione standard:

- 1 arresto laterale Art. 370
 - 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
 - 1 chiave a pipa Art. 375 ■ 1 chiave a "T" Art. 376
- Extra per ogni foro calibrato (tolleranza F7) - MAN-010-STD : euro 110,00
 Extra per ogni chiavevitta (tolleranza H7) - MAN-020-STD : euro 110,00



Standard equipment:

- 1 workstop Art. 370
 - 1 pair of positioning key-nuts for 16 mm slot Art. 297
 - 1 box wrench Art. 375 ■ 1 T-wrench Art. 376
- Extra charge for each calibrated hole (F7 tolerance) - MAN-010-STD : euro 110,00
 Extra charge for each calibrated key nut (F7 tolerance) - MAN-020-STD : euro 110,00


 Vedi gruppo 4 per gamma completa accessori
 See group 4 for complete range of accessories

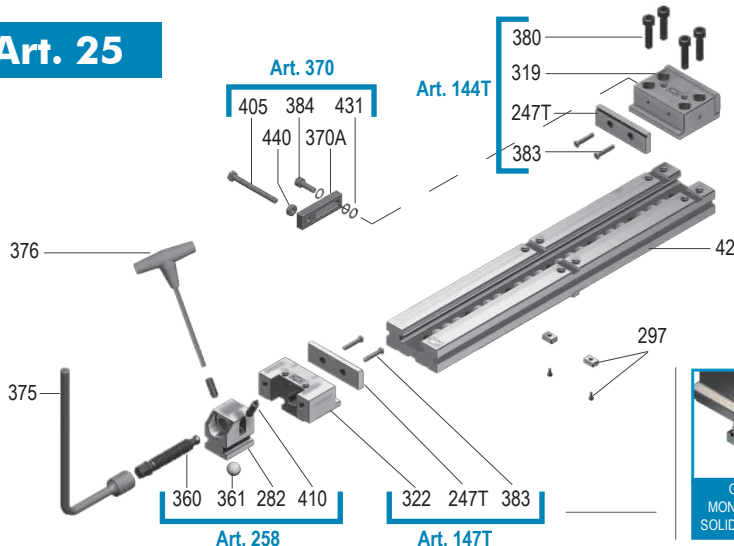
	5 40 kN					6 40 kN						
	A	500	600	700	800	900	500	600	700	800	900	1000
W	170					195						
B	65					80						
C	70					78						
D	805	905	1005	1105	1205	900	1000	1100	1200	1300	1400	1500
G	170					195						
kg	82.5	88.5	96.5	103.5	110.5	116	129	139	149	159	169	179
Cod.	2.25.55000	2.25.56000	2.25.57000	2.25.58000	2.25.59000	2.25.65000	2.25.66000	2.25.67000	2.25.68000	2.25.69000	2.25.61000	2.25.61100
€	3.135	3.497	3.863	4.225	4.588	4.370	4.808	5.245	5.681	6.117	6.554	6.989

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

4.31.3R50C		4.31.3R60C										
Art. 313R	155	176										
	53		68									
2.21.85000		2.21.86000										
Art. 218	346	589										
1.65.57200		1.65.67200										
Art. 247	146	194										
1.24.7G500		1.24.7G600										
Art. 247G	297	387										
Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41											
€	3.516	3.879	4.245	4.608	4.971	4.660	5.098	5.535	5.970	6.407	6.845	7.280

StandardMatic VISES

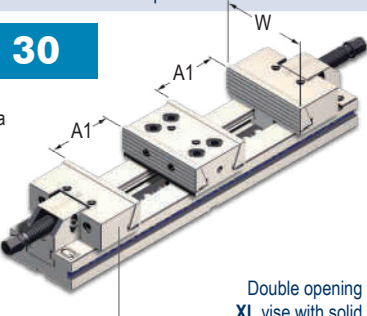
Centralina Pneumoidraulica Art.393/394/395 (EXTRA)
 Pneumohydraulic Power Unit Art.393/394/395 (EXTRA)

Art. 25



Art.	Pag.	Art.	Pag.
42	2.32	380	4.28
247T	4.11	383	4.28
282	4.36	384	4.28
297	4.34	405	4.35
319	4.30	410	4.36
322	4.30	431	4.28
360	4.36	440	4.28
361	4.36	-	-
370A	4.35	-	-
375	4.35	-	-
376	4.35	-	-





2


Tipo (grandezza) morsa / Vise type (size)	kN	1		2		3		4	
		16 kN	25 kN	30 kN	30 kN	30 kN	30 kN	30 kN	
Apertura massima / Maximum spread	A1	2 x 90	2 x 100	2 x 110	2 x 160	2 x 120	2 x 170	2 x 220	2 x 270
Art. 30 Morsa XL a doppia apertura con ganascia mobile guidata monoblocco  Double opening XL vise with solid movable guided jaws Monoblocco - Solid	W	100	125	150				175	
	B	30	40	50				60	
	C	35	40	50				58	
	D	460	520	580	680	666	766	866	966
	G	75	95	125				145	
	kg	14.5	21	39	43	59	64	69	74
	Cod.	3.31.00600	3.32.10600	3.33.20600	3.33.30600	3.34.20600	3.34.30600	3.34.40600	3.34.50600
	€	1.054	1.403	1.729	1.886	2.015	2.183	2.347	2.514

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

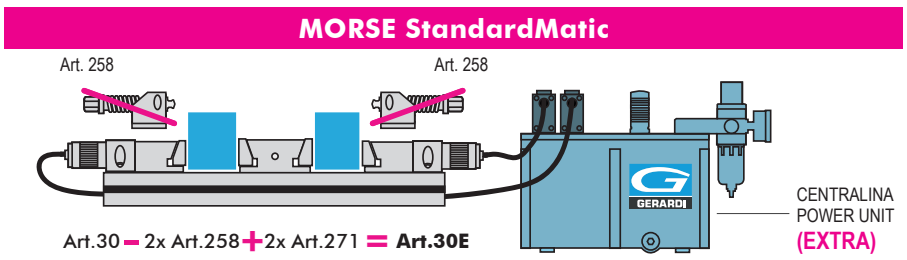
Art. 313 Coppia di Parallele magnetiche Pair of magnetic parallel plates 	Cod.	4.31.3100C	4.31.3200C	4.31.3300C	4.31.3400C
	€	73	93	116	136
	H	23	33	43	53

Art. 212 Ganascia mobile intermedia (da usare con Art. 313) Intermediate movable jaw (to be used with Art. 313) 	Cod.	1.21.21000	1.21.22000	1.21.23000	1.21.24000
	€	105	128	165	208

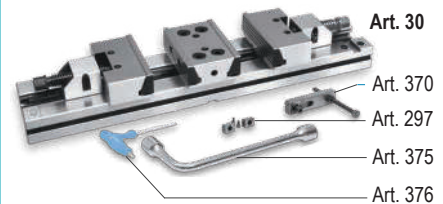
Art. 217 Ganascia mobile prismatica Prismatic movable jaw 	Cod.	2.21.71000	2.21.72000	2.21.73000	2.21.74000
	€	164	137	194	262

Art. 242G Piastra ganascia con inserti GRIP completa di parallela magnetica Jaw plate with GRIP inserts with magnetic parallel 	Cod.	1.24.2G100	1.24.2G200	1.24.2G300	1.24.2G400
	€	139	150	194	217

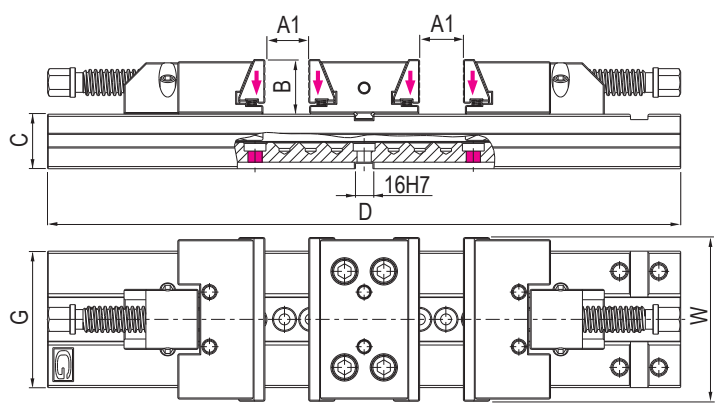
Art. 30E NEW 2024 Morsa modulare StandardMatic con cilindro idraulico a SINGOLO effetto 	Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41							
	€	1.515	1.882	2.244	2.400	2.595	2.763	2.927	3.094



- Dotazione standard:
- 2 arresti laterale Art. 370
 - 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
 - 1 chiave a pipa Art. 375 ■ 1 chiave a "T" Art. 376
- Extra per ogni foro calibrato (tolleranza F7) - MAN-010-STD : euro 110,00
 Extra per ogni chiavevitta (tolleranza H7) - MAN-020-STD : euro 110,00



- Standard equipment:
- 2 workstops Art. 370
 - 1 pair of positioning key-nuts for 16 mm slot Art. 297
 - 1 box wrench Art. 375 ■ 1 T-wrench Art. 376
- Extra charge for each calibrated hole (F7 tolerance) - MAN-010-STD : euro 110,00
 Extra charge for each calibrated key nut (F7 tolerance) - MAN-020-STD : euro 110,00



Vedi gruppo 4 per gamma completa accessori
 See group 4 for complete range of accessories

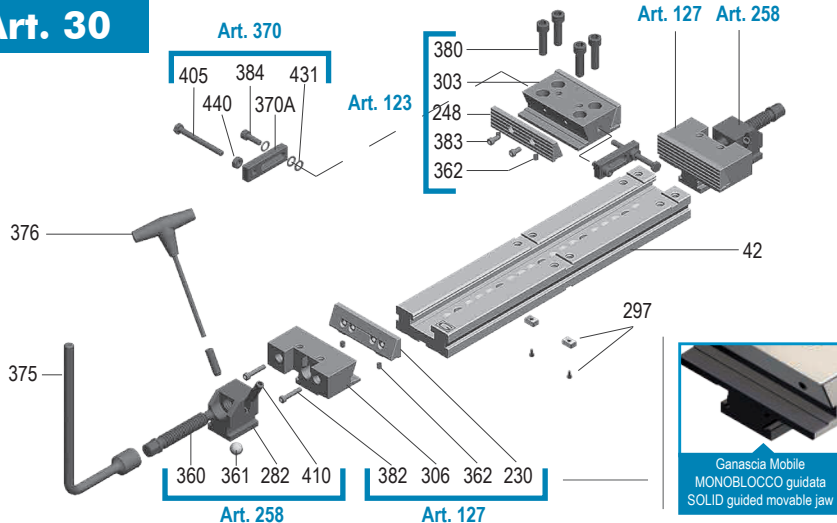
	5 40 kN					6 40 kN						
	A1	2 x 150	2 x 200	2 x 250	2 x 300	2 x 350	2 x 160	2 x 210	2 x 260	2 x 310	2 x 360	2 x 410
W	200					300						
B	65					80						
C	70					78						
D	805	905	1005	1105	1205	900	1000	1100	1200	1300	1400	1500
G	170					195						
kg	96	102	108	114	120	155	163	171	179	187	195	213
Cod.	3.35.20600	3.35.30600	3.35.40600	3.35.50600	3.35.60600	3.36.20600	3.36.30600	3.36.40600	3.36.50600	3.36.60600	3.36.70600	3.36.80600
€	3.280	3.607	3.932	4.262	4.588	4.685	5.080	5.472	5.864	6.258	6.652	7.045

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

	4.31.3500C	155		4.31.3600C	176							
	1.21.25000	250		1.21.26000	346							
Art. 212												
	2.21.75000	346		2.21.76000	589							
Art. 217												
	1.24.2G500	297		1.24.2G600	387							
Art. 242G												
Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41											
€	3.982	4.307	4.633	4.962	5.291	5.198	5.592	5.984	6.376	6.770	7.165	7.556

StandardMatic VISES

Centralina Pneumoidraulica Art.393/394/395 (EXTRA)
 Pneumohydraulic Power Unit Art.393/394/395 (EXTRA)

Art. 30


Art.	Pag.	Art.	Pag.
42	2.32	375	4.35
230	4.9	376	4.35
248	4.9	380	4.28
282	4.36	382	4.28
297	4.34	383	4.28
303	4.29	384	4.28
306	4.29	405	4.35
360	4.36	410	4.36
361	4.36	431	4.28
362	4.28	440	4.28
370A	4.35	-	-



2

Tipo (grandezza) morsa / Vise type (size)	kN	1		2		3		4	
		16 kN	25 kN	30 kN	30 kN	30 kN	30 kN	30 kN	
Apertura massima / Maximum spread	A1	2 x 90	2 x 100	2 x 110	2 x 160	2 x 120	2 x 170	2 x 220	2 x 270
Art. 32 Morsa XL a doppia apertura con ganasce ridotte rettificate. (Maggior Pressione) Double opening XL vise with narrow ground jaws (Higher Pressure)	W	75	95	125		145			
	B	30	40	50		60			
C	35	40	50		58				
D	460	520	580	680	666	766	866	966	
G	75	95	125		145				
kg	13.5	19.5	36	40	56	61	66	71	
Cod.	3.31.00720	3.32.10720	3.33.20720	3.33.30720	3.34.20720	3.34.30720	3.34.40720	3.34.50720	
€	1.173	1.557	1.922	2.096	2.242	2.425	2.608	2.794	

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

Art. 313R Coppia di Parallele magnetiche Pair of magnetic parallel plates		Cod.	4.31.3R10C	4.31.3R20C	4.31.3R30C	4.31.3R40C
		€	73	93	116	136
H	23	33	43	53		

Art. 213 Ganasca mobile intermedia (da usare con Art. 313R) Intermediate movable jaw (to be used with Art. 313R)		Cod.	1.21.31000	1.21.32000	1.21.33000	1.21.34000
		€	105	128	165	208

Art. 218 Ganasca mobile prismatica Prismatic movable jaw		Cod.	2.21.81000	2.21.82000	2.21.83000	2.21.84000
		€	164	137	194	262

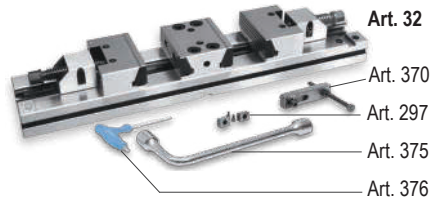
Art. 243G Piastra ganasca ridotta con inserti GRIP completa di parallela magnetica Narrow width jaw plate with GRIP inserts with magnetic parallel		Cod.	1.24.3G100	1.24.3G200	1.24.3G300	1.24.3G400
		€	139	150	161	217

Art. 32E NEW 2024 Morsa modulare StandardMatic con cilindro idraulico a SINGOLO effetto StandardMatic precision modular vise with SINGLE effect hydraulic cylinder		Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41					
		€	1.633	2.037	2.437	2.611	2.821	3.006

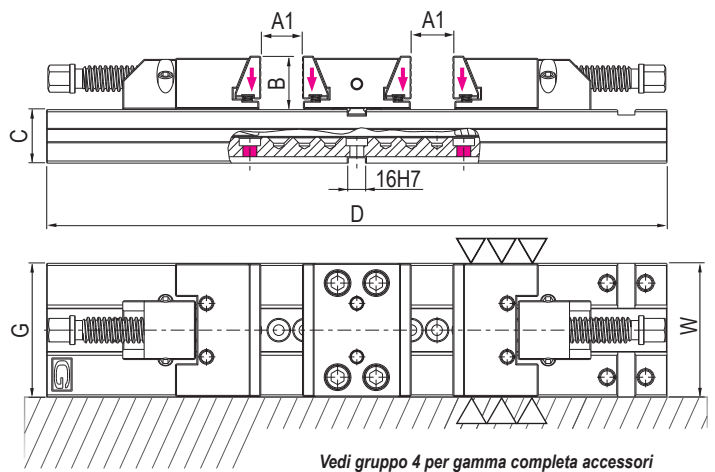
MORSE StandardMatic

CENTRALINA POWER UNIT (EXTRA)

- Dotazione standard:
- 2 arresti laterale Art. 370
 - 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
 - 1 chiave a pipa Art. 375 ■ 1 chiave a "T" Art. 376
- Extra per ogni foro calibrato (tolleranza F7) - MAN-010-STD : euro 110,00
 Extra per ogni chiavevta (tolleranza H7) - MAN-020-STD : euro 110,00



- Standard equipment:
- 2 workstops Art. 370
 - 1 pair of positioning key-nuts for 16 mm slot Art. 297
 - 1 box wrench Art. 375 ■ 1 T-wrench Art. 376
- Extra charge for each calibrated hole (F7 tolerance) - MAN-010-STD : euro 110,00
 Extra charge for each calibrated key nut (F7 tolerance) - MAN-020-STD : euro 110,00



Vedi gruppo 4 per gamma completa accessori
 See group 4 for complete range of accessories

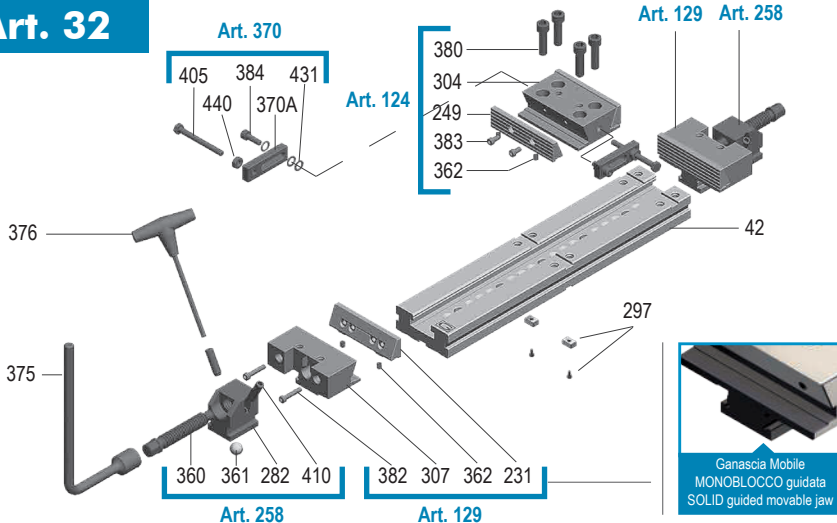
	5 40 kN					6 40 kN						
	2 x 150	2 x 200	2 x 250	2 x 300	2 x 350	2 x 160	2 x 210	2 x 260	2 x 310	2 x 360	2 x 410	2 x 460
A1												
W			170						195			
B			65						80			
C			70						78			
D	805	905	1005	1105	1205	900	1000	1100	1200	1300	1400	1500
G			170						195			
kg	93	99	105	108	117	144	152	160	168	176	184	202
Cod.	3.35.20720	3.35.30720	3.35.40720	3.35.50720	3.35.60720	3.36.20720	3.36.30720	3.36.40720	3.36.50720	3.36.60720	3.36.70720	3.36.80720
€	3.644	4.008	4.370	4.732	5.100	5.207	5.644	6.083	6.517	6.955	7.392	7.824

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art. 313R	4.31.3R50C	155		4.31.3R60C	176							
		53			68							
Art. 213	1.21.35000	250		1.21.36000	346							
Art. 218	2.21.85000	346		2.21.86000	589							
Art. 243G	1.24.3G500	264		1.24.3G600	356							
Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41											
€	4.345	4.709	5.071	5.433	5.801	5.720	6.156	6.594	7.029	7.466	7.904	8.336

StandardMatic VISES

Centralina Pneumoidraulica Art.393/394/395 (EXTRA)
 Pneumohydraulic Power Unit Art.393/394/395 (EXTRA)

Art. 32


Art.	Pag.	Art.	Pag.
42	2.32	375	4.35
231	4.9	376	4.35
249	4.9	380	4.28
282	4.36	382	4.28
297	4.34	383	4.28
304	4.29	384	4.28
307	4.29	405	4.35
360	4.36	410	4.36
361	4.36	431	4.28
362	4.28	440	4.28
370A	4.35	-	-



2

Tipo (grandezza) morsa / Vise type (size)	kN	1		2		3		4	
		16 kN	25 kN	30 kN	30 kN	30 kN	30 kN	30 kN	
Apertura massima / Maximum spread	A1	2 x 90	2 x 100	2 x 110	2 x 160	2 x 120	2 x 170	2 x 220	2 x 270
Art. 34 Morsa XL a doppia apertura con ganasce a piastre piane Double opening XL vise with straight-plate jaws 	W	100	125	150				175	
	B	30	40	50				60	
	C	35	40	50				58	
	D	460	520	580	680	666	766	866	966
	G	75	95	125				145	
	kg	9.4	15.8	29.8	32.8	44.8	49.8	54.8	59.8
	Cod.	2.34.19000	2.34.21000	2.34.31100	2.34.31600	2.34.41200	2.34.41700	2.34.42200	2.34.42700
	€	1.054	1.403	1.729	1.886	2.015	2.183	2.350	2.514

Monoblocco - Solid

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

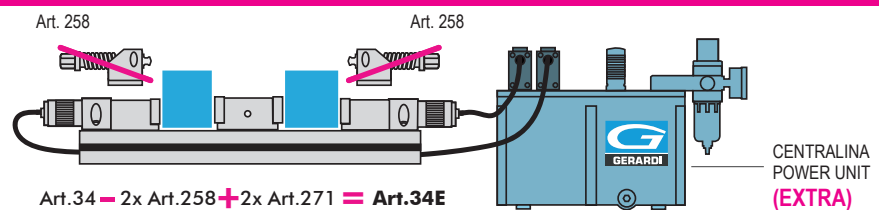
Art. 313 Coppia di Parallele magnetiche Pair of magnetic parallel plates 	Cod.	4.31.3100C	4.31.3200C	4.31.3300C	4.31.3400C
	€	73	93	116	136
	H	23	33	43	53

Art. 212 Ganasca mobile intermedia (da usare con Art. 313) Intermediate movable jaw (to be used with Art. 313) 	Cod.	1.21.21000	1.21.22000	1.21.23000	1.21.24000
	€	105	128	165	208

Art. 246 Piastra piana in acciaio lavorabile Machinable steel straight jaw plate 	Cod.	1.65.16200	1.65.26200	1.65.36200	1.65.46200
	€	66	73	86	105

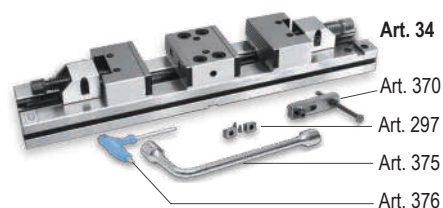
Art. 246G Piastra ganasca con inserti GRIP completa di parallela magnetica Jaw plate with GRIP inserts with magnetic parallel 	Cod.	1.24.6G100	1.24.6G200	1.24.6G300	1.24.6G400
	€	139	150	194	217

Art. 34E Morsa modulare StandardMatic con cilindro idraulico a SINGOLO effetto StandardMatic precision modular vise with SINGLE effect hydraulic cylinder 	Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41							
	€	1.515	1.882	2.244	2.400	2.595	2.763	2.930	3.094

MORSE StandardMatic


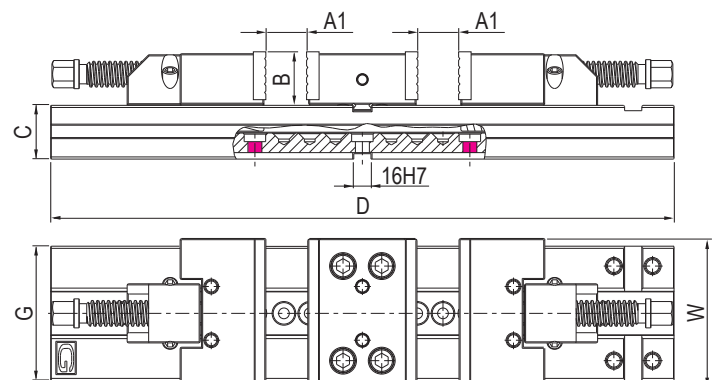
Dotazione standard:

- 2 arresti laterale Art. 370
 - 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
 - 1 chiave a pipa Art. 375 ■ 1 chiave a "T" Art. 376
- Extra per ogni foro calibrato (tolleranza F7) - MAN-010-STD : euro 110,00
 Extra per ogni chiavevta (tolleranza H7) - MAN-020-STD : euro 110,00



Standard equipment:

- 2 workstops Art. 370
 - 1 pair of positioning key-nuts for 16 mm slot Art. 297
 - 1 box wrench Art. 375 ■ 1 T-wrench Art. 376
- Extra charge for each calibrated hole (F7 tolerance) - MAN-010-STD : euro 110,00
 Extra charge for each calibrated key nut (F7 tolerance) - MAN-020-STD : euro 110,00


 Vedi gruppo 4 per gamma completa accessori
 See group 4 for complete range of accessories

	5 40 kN					6 40 kN						
A1	2 x 150	2 x 200	2 x 250	2 x 300	2 x 350	2 x 160	2 x 210	2 x 260	2 x 310	2 x 360	2 x 410	2 x 460
W	200					300						
B	65					80						
C	70					78						
D	805	905	1005	1105	1205	900	1000	1100	1200	1300	1400	1500
G	170					195						
kg	82.5	88.5	96.5	103.5	110.5	116	129	139	149	159	169	179
Cod.	2.34.51500	2.34.52000	2.34.52500	2.34.53000	2.34.53500	2.34.61600	2.34.62100	2.34.62600	2.34.63100	2.34.63600	2.34.64100	2.34.64600
€	3.280	3.607	3.932	4.262	4.588	4.685	5.080	5.472	5.864	6.258	6.652	7.045

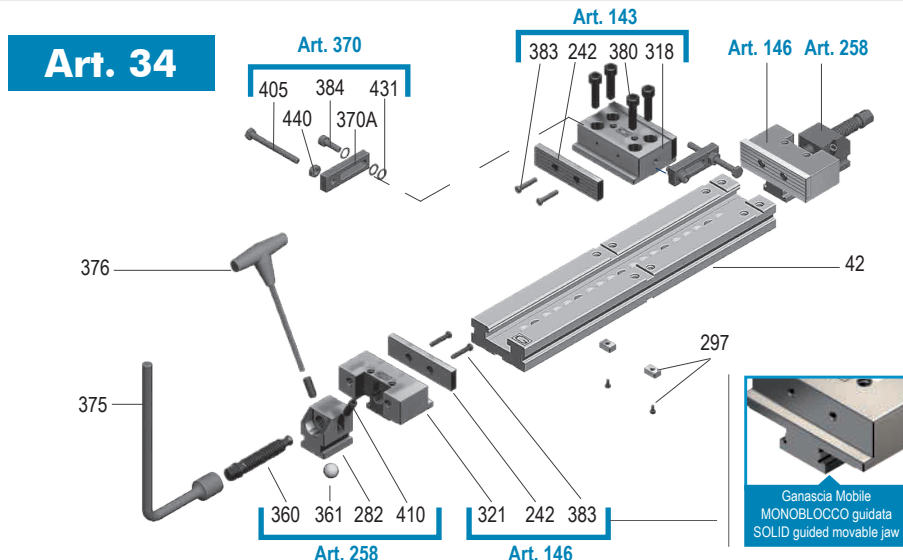
UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

4.31.3500C	155		4.31.3600C	176								
53			68									
1.21.25000	250		1.21.26000	346								
Art. 212												
1.65.56200	146		1.65.66200	194								
Art. 246												
1.24.6G500	297		1.24.6G600	387								
Art. 246G												
Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41											
€	3.982	4.307	4.633	4.962	5.291	5.198	5.592	5.984	6.376	6.770	7.165	7.556

StandardMatic VISES



Centralina Pneumoidraulica Art.393/394/395 (EXTRA)
Pneumohydraulic Power Unit Art.393/394/395 (EXTRA)

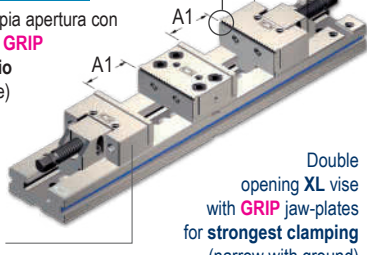


Art.	Pag.	Art.	Pag.
42	2.32	380	4.28
242	4.11	383	4.28
282	4.36	384	4.28
297	4.34	405	4.35
318	4.30	410	4.36
321	4.30	431	4.28
360	4.36	440	4.28
361	4.36	-	-
370A	4.35	-	-
375	4.35	-	-
376	4.35	-	-



Tipo (grandezza) morsa
 Vise type (size)

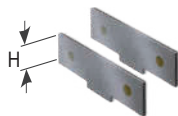
Art. 35

 Morsa XL a doppia apertura con piastre ganasce **GRIP** a forte serraggio (ridotte rettificata)

 Double opening XL vise with **GRIP** jaw-plates for strongest clamping (narrow with ground)

Monoblocco - Solid

	1	2	3		4				
	16 kN	25 kN	30 kN		30 kN				
Apertura massima / Maximum spread	A1	2 x 90	2 x 100	2 x 110	2 x 160	2 x 120	2 x 170	2 x 220	2 x 270
W	75	95	125		145				
B	30	40	50		60				
C	35	40	50		58				
D	460	520	580	680	666	766	866	966	
G	75	95	125		145				
kg	9.4	15.8	29.8	32.8	44.8	49.8	54.8	59.8	
Cod.	2.35.19000	2.35.21000	2.35.31100	2.35.31600	2.35.41200	2.35.41700	2.35.42200	2.35.42700	
€	1.173	1.557	1.922	2.096	2.242	2.425	2.608	2.794	

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !
Art. 313R

 Coppia di Parallele magnetiche
 Pair of magnetic parallel plates


Cod.	4.31.3R10C	4.31.3R20C	4.31.3R30C	4.31.3R40C
€	73	93	116	136
H	23	33	43	53

Art. 218

 Ganaschia mobile prismatica
 Prismatic movable jaw


Cod.	2.21.81000	2.21.82000	2.21.83000	2.21.84000
€	164	137	194	262

Art. 247

 Piastra piana in acciaio lavorabile
 Machinable steel straight jaw plate

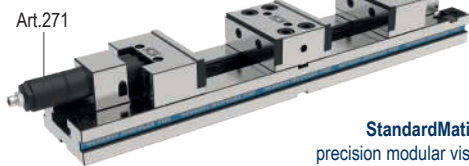

Cod.	1.65.17200	1.65.27200	1.65.37200	1.65.47200
€	66	73	86	105

Art. 247G

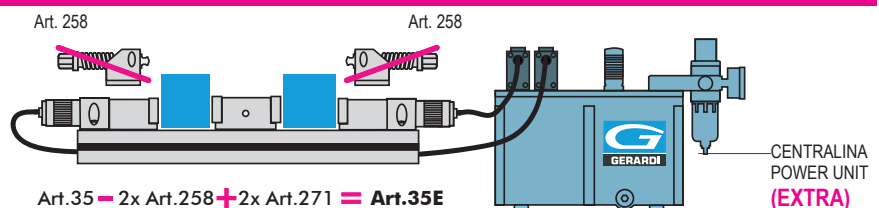
 Piastra ganaschia ridotta con inserti GRIP completa di parallela magnetica
 Narrow width jaw plate with GRIP inserts with magnetic parallel


Cod.	1.24.7G100	1.24.7G200	1.24.7G300	1.24.7G400
€	139	150	194	217

Art. 35E
NEW 2024

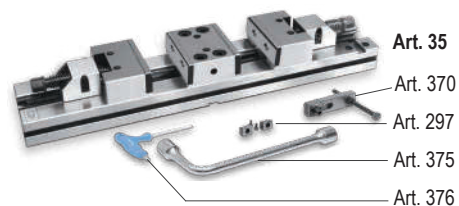
 Morsa modulare **StandardMatic** con cilindro idraulico a SINGOLO effetto

StandardMatic
 precision modular vise with SINGLE effect hydraulic cylinder

Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41							
€	1.633	2.037	2.437	2.611	2.821	3.006	3.188	3.373

MORSE StandardMatic


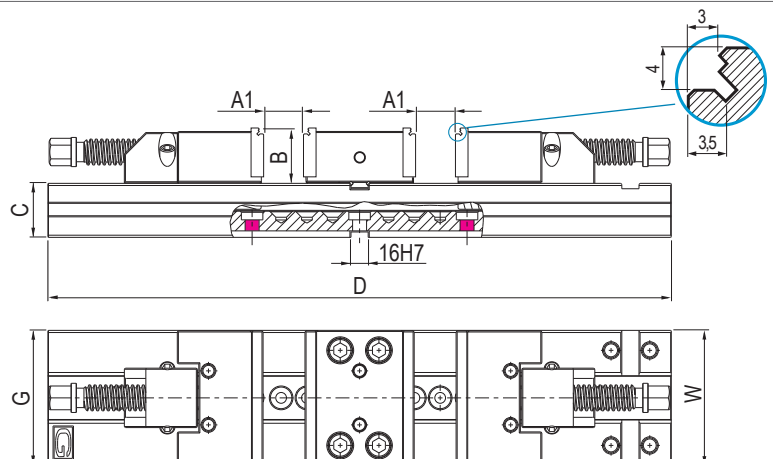
Dotazione standard:

- 2 arresti laterale Art. 370
 - 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
 - 1 chiave a pipa Art. 375 ■ 1 chiave a "T" Art. 376
- Extra per ogni foro calibrato (tolleranza F7) - MAN-010-STD : euro 110,00
 Extra per ogni chiavevta (tolleranza H7) - MAN-020-STD : euro 110,00



Standard equipment:

- 2 workstops Art. 370
 - 1 pair of positioning key-nuts for 16 mm slot Art. 297
 - 1 box wrench Art. 375 ■ 1 T-wrench Art. 376
- Extra charge for each calibrated hole (F7 tolerance) - MAN-010-STD : euro 110,00
 Extra charge for each calibrated key nut (F7 tolerance) - MAN-020-STD : euro 110,00


 Vedi gruppo 4 per gamma completa accessori
 See group 4 for complete range of accessories

	5 40 kN					6 40 kN						
	2 x 150	2 x 200	2 x 250	2 x 300	2 x 350	2 x 160	2 x 210	2 x 260	2 x 310	2 x 360	2 x 410	2 x 460
A1												
W			170						195			
B			65						80			
C			70						78			
D	805	905	1005	1105	1205	900	1000	1100	1200	1300	1400	1500
G			170						195			
kg	82.5	88.5	96.5	103.5	110.5	116	129	139	149	159	169	179
Cod.	2.35.51500	2.35.52000	2.35.52500	2.35.53000	2.35.53500	2.35.61600	2.35.62100	2.35.62600	2.35.63100	2.35.63600	2.35.64100	2.35.64600
€	3.644	4.008	4.370	4.732	5.100	5.207	5.644	6.083	6.517	6.955	7.392	7.824

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

4.31.3R50C Art. 313R 155 53		4.31.3R60C 176 68										
2.21.85000 Art. 218 346		2.21.86000 589										
1.65.57200 Art. 247 146		1.65.67200 194										
1.24.7G500 Art. 247G 297		1.24.7G600 387										
Cod. Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41												
€	4.345	4.709	5.071	5.433	5.801	5.720	6.156	6.594	7.029	7.466	7.904	8.336

StandardMatic VISES

Centralina Pneumoidraulica Art.393/394/395 (EXTRA)
 Pneumohydraulic Power Unit Art.393/394/395 (EXTRA)

Art. 35

Art. 370: 405, 384, 431, 440, 370A
Art. 144T: 383, 247T, 380, 319
Art. 147T: 322, 247T, 383
Art. 258: 360, 361, 282, 410
Art. 147T: 322, 247T, 383
Art. 297: 297
Art. 376: 376
Art. 375: 375
Art. 42: 42

Art. 258 **Art. 147T**

Ganascia Mobile
 MONOBLOCCO guidata
 SOLID guided movable jaw

Art.	Pag.	Art.	Pag.
42	2.32	380	4.28
247T	4.11	383	4.28
282	4.36	384	4.28
297	4.34	405	4.35
319	4.30	410	4.36
322	4.30	431	4.28
360	4.36	440	4.28
361	4.36	-	-
370A	4.35	-	-
375	4.35	-	-
376	4.35	-	-

Morse e Cubi / Vises & Vise Towers

XL (flex)

Basi extra lunghe e piastre ganasce a cambio rapido!
Extra long bases and quick interchangeable jaw plate !



Precisione / Accuracy
 $\pm 0,02\text{mm}$



Durezza / Hardened
HRC 58±2

USURA INESISTENTE / NO WEAR

Grazie all'accurata scelta dei materiali impiegati ed allo studio dimensionale computerizzato dei componenti. Costruzione completamente in speciali leghe di acciaio ad alta resistenza, normalizzato, cementato e temprato con durezza 58 ±2 HRC. Tutto ciò al fine di conferire massima rigidità, elevate prestazioni e usura inesistente. A riprova di tutto ciò assicuriamo **5 ANNI DI GARANZIA** su tutto il programma morse e organi meccanici in genere.

Thanks to the manufacturing with only the most suitable materials and to the structure of the vise components (developed using computer customised softwares and the experience gained during many years spent working on the specific field). High alloyed quality resistance steel, case hardened HRC 58 ±2, is used in manufacturing all the Gerardi vises and accessories in order to give maximum rigidity, high performances and no wear. As evidence we give **5 YEARS WARRANTY** on all the vises and mechanical components.

MODULARITÀ / MODULARITY

Tutte le morse ed accessori sono elementi componibili, intercambiabili e perfettamente allineabili fra loro e con i quali è possibile ottenere differenti soluzioni di bloccaggio. Secondo tale principio l'unico elemento che differenzia le attrezzature con identica larghezza di presa è la base (la cui lunghezza determina la massima apertura della morsa), mentre gli altri componenti sono identici. Mediante l'aggiunta o semplice sostituzione di alcuni particolari si può variare la tipologia di bloccaggio secondo le proprie esigenze utilizzando la stessa attrezzatura acquistata in un primo momento (bloccaggi singoli, con base girevole, doppi, verticali, di pezzi piani, tondi, piatti e grezzi, manuali, idraulici o pneumatici).

All vises and accessories are modular and components of all our vises will interchange with perfect alignment to provide different workholding solutions. With this basic principle the only difference between fixtures with the same width of clamping is the base (whose length determines the maximum opening of the vise), while the rest of components have same dimensions. Through the simple addition or substitution of some particulars You can change the type of clamping as Your needs require using the same fixture purchased before (single clamping, swivel base, double, vertical, smooth or round or flat or rough workpieces, manual, hydraulic or pneumatic).

DESIGN COMPATTO / SPACE SAVING DESIGN

La semplicità nonché la compattezza costruttiva consentono un'apertura notevole rispetto all'ingombro totale dell'attrezzatura. Inoltre lo stesso peso (solo 25 kg per una morsa da 150 mm di larghezza ganasce) è tale da consentire un facile trasferimento da una macchina all'altra.

The space saving design and solid construction allow a maximum blocking ratio to total overall dimension of the vise. Furthermore the weight (only 25 kg for a 150 mm jaw width vise) allows a simple moving from one machine to another.

SERRAGGI RAPIDI / QUICK CLAMPING

Grazie allo scorrimento del gruppo di serraggio nella guida della base (a cremagliera) fino in prossimità del pezzo da lavorare dove si adatterà automaticamente alla nicchia più vicina. L'operazione di serraggio si conclude agendo sulla vite di bloccaggio. Oltre a quello manuale meccanico, sono disponibili 4 ulteriori sistemi di serraggio intercambiabili e indipendenti: 1 - Idraulici / 2 - Pneumatici / 3 - Idraulici manuali / 4 - Idraulici elettrici. L'operazione è in termini di secondi.

Thanks to the clamping device sliding in the vise base slide (compact rack type) till the proximity of the workpiece. The clamping is completed with the main screw. Besides the manual mechanic system, 4 further interchangeable and independent clamping systems are available: 1- Hydraulic / 2- Pneumatic / 3- Manual hydraulic / 4- Electrical hydraulic. The change needs only few seconds.



Art. 230B

Dolce
Soft



Art. 230C

Liscia
Smooth



Art. 230D

Zigrinata
Serrated



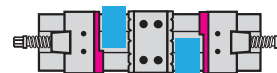
Art. 230E

Con gradino
With step



Art. 230F

Prismatica
Prismatic



Art. 230G

Con arresto a 90°
With 90° stop



Art. 230H

Bombata
Round



Art. 230M

Angolo di 30° o 45°
30° or 45° angle

PIASTRE GANASCE DISCENDENTI INTERCAMBIABILI MANUALMENTE
PULL DOWN JAW PLATES INTERCHANGEABLE BY HAND

Portapiastre The Rack

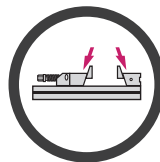
Completo di piastre ganasce a cambio rapido a gradino Art.230E
 Complete of quick change step jaw plates Art.230E

Vedi Pag. 4.22 - See Page.4.22



La morsa Gerardi XL come le sorelle più corte StandardFLEX, possono essere dotate di piastre ganasce a cambio rapido permettendo in questo modo oltre la lavorazione di un numero maggiore di pezzi sfruttando al massimo la lunghezza della tavola della macchina utensile anche la sostituzione rapida delle piastre ganasce che avviene manualmente e senza l'ausilio di alcun utensile, questo è possibile grazie al sistema Perno-molla, che consente un diverso utilizzo della morsa in tempi ridottissimi. Grazie al sistema a Pettine di rigatura prismatica delle piastre ganascia, risulta migliorato anche l'effetto discendente che durante la fase di serraggio, trascina il pezzo contro lo slittone garantendo anche una notevolissima precisione di riposizionamento.

The Gerardi XL vises as the StandardFLEX series, can be equipped with the pull down jaw plates allowing to machine more workpieces using the total length of the machine tool and the quickest jaw plate hand substitution without any tool. This is possible thanks to the new design with pin with spring which increases the standard vise versatility while the prismatic grooves allow a perfect repositioning accuracy (within microns !!).



SCAN IT TO WATCH THE



VIDEO PRESENTATION



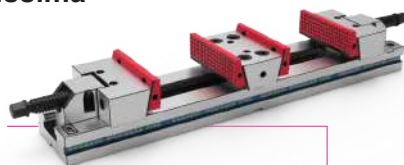
Dotata del geniale sistema a pettine per sostituire rapidamente la piastra ganascia discendente

Innovative Comb system for quick pull-down jaw plate change

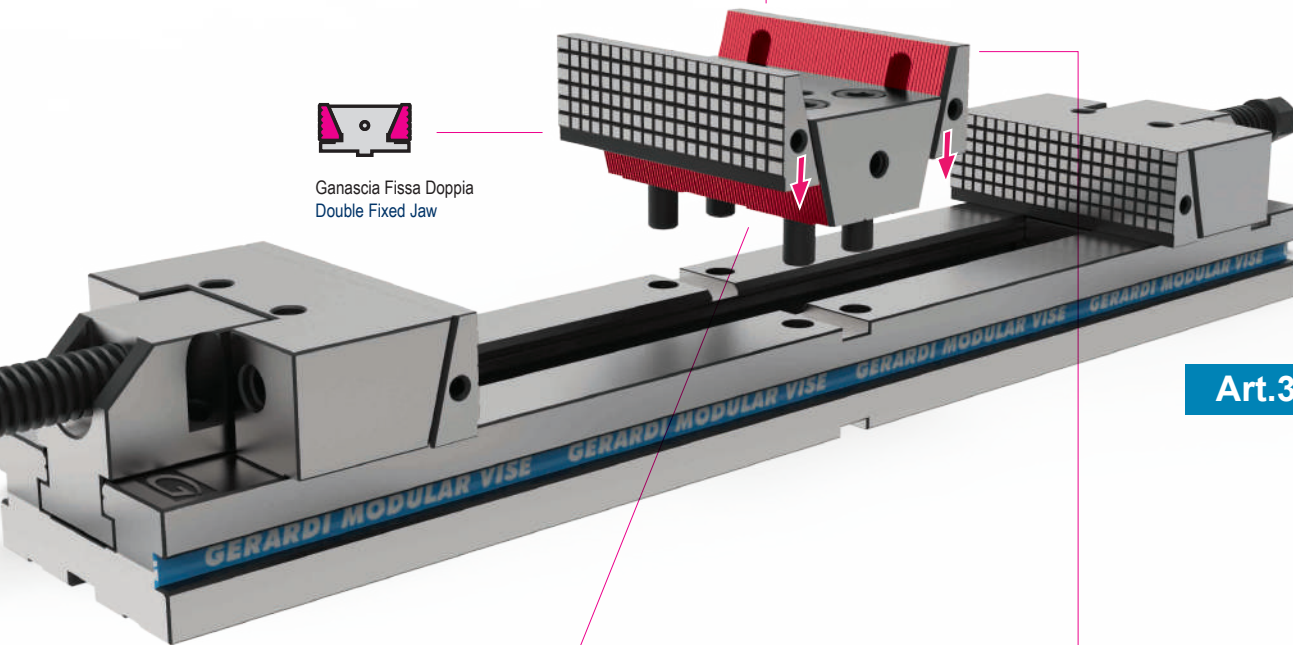
Riconfigurazione Rapidissima Quickest Vise Resetting

Grazie alla piastra ganascia intercambiabile manualmente tramite sistema a pettine

Thanks to the quick interchangeable jaw plate through ground comb system



Ganascia Fissa Doppia
Double Fixed Jaw



Art.30A

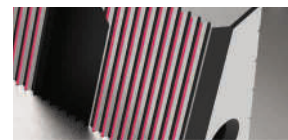
Effetto discendente Pull Down Action

Effetto discendente amplificato e migliorato e migliore protezione dai trucioli grazie al sistema a pettine.

Increased and better pull down action and better protection from chips thanks to the comb system

Altissima Ripetibilità di Posizionamento Highest Repositioning Accuracy $\pm 0,005\text{mm}$

Veloce e preciso grazie alla forma rettificata del sistema a pettine
Quick and accurate jaw plate thanks the grid shape of the comb system

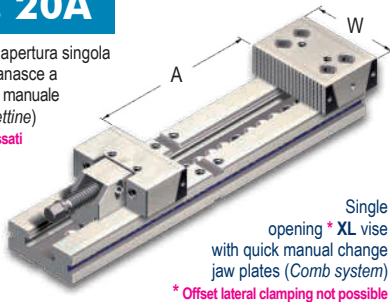


2

Tipo (grandezza) morsa / Vise type (size)	kN	1		2		3		4	
		16 kN	25 kN	30 kN	30 kN	30 kN	30 kN	30 kN	30 kN
Apertura massima / Maximum spread	A	290	320	360	460	400	500	600	700
	W	96	121	146		171			
	B	28	38	48		58			
	C	35	40	50		58			
	D	460	520	580	680	666	766	866	966
	G	75	95	125		145			
	kg	6.8	12.9	25.5	29	37	42	47	52
	Cod.	2.20.A1290	2.20.A2320	2.20.A3360	2.20.A3460	2.20.A4400	2.20.A4500	2.20.A4600	2.20.A4700
	€	948	1.274	1.583	1.753	1.846	2.031	2.210	2.398

Art. 20A

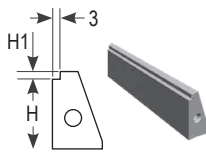
Morsa *XL a apertura singola con piastre ganasce a cambio rapido manuale (Sistema a pettine)
 * Serraggi disassati lateralmente non possibili



Single opening *XL vise with quick manual change jaw plates (Comb system)
 * Offset lateral clamping not possible

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !
Art. 230E

Piastra ganasce intercambiabile Interchangeable jaw plate
 Vedi pagina 4.21 per altezze disponibili See page 4.21 for available height



Cod.	4.23.0E101	4.23.0E201	4.23.0E301	4.23.0E401
€	95	105	128	158
H	23	33	43	53
H1	5	5	5	5

Art. 212

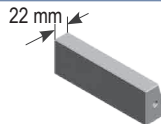
Ganasce mobile intermedia (da usare con Art. 230E)
 Intermediate movable jaw (to be used with Art. 230E)



Cod.	1.21.21000	1.21.22000	1.21.23000	1.21.24000
€	105	128	165	208

Art. 230B

Piastra ganasce intercambiabile dolce Soft interchangeable jaw plate



Cod.	4.23.0B101	4.23.0B201	4.23.0B301	4.23.0B401
€	79	86	101	129

Art. 230F

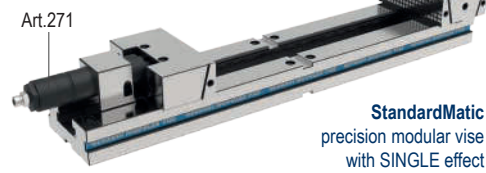
Piastra ganasce intercambiabile prismatica Prismatic interchangeable jaw plate



Cod.	4.23.0F101	4.23.0F201	4.23.0F301	4.23.0F401
€	127	136	162	205

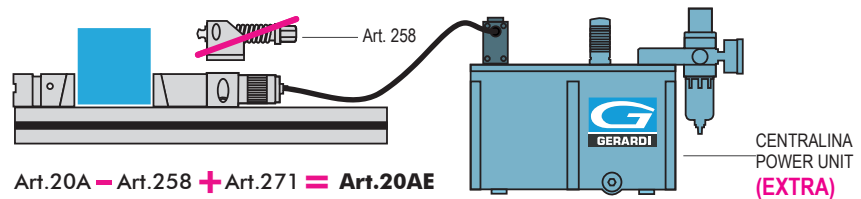
Art.20AE
NEW 2024

Morsa modulare StandardMatic con cilindro idraulico a SINGOLO effetto



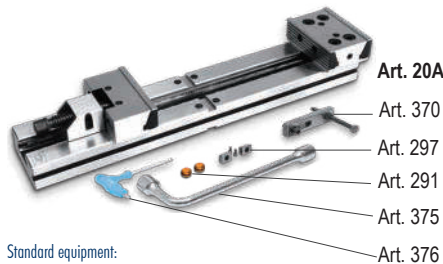
StandardMatic precision modular vise with SINGLE effect hydraulic cylinder

Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41							
€	1.195	1.534	1.864	2.033	2.162	2.346	2.525	2.714

MORSE StandardMatic


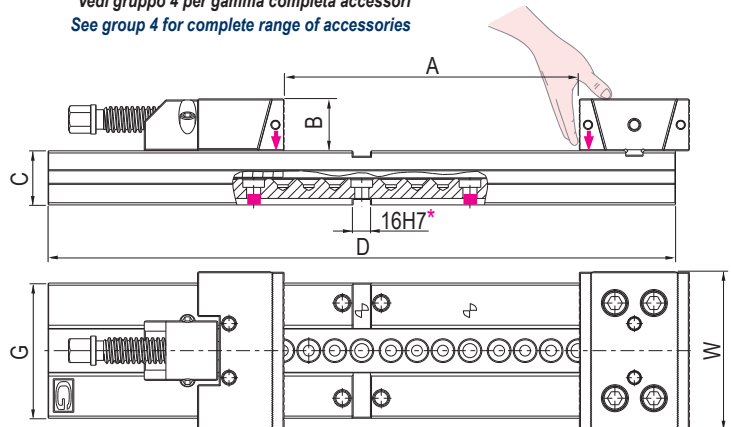
Dotazione standard:

- 1 arresto laterale Art. 370
 - 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
 - 2 tappi Art. 291 ■ 1 chiave a pipa Art. 375 ■ 1 chiave a "T" Art. 376
- Extra per ogni foro calibrato (tolleranza F7) - MAN-010-STD : euro 110,00
 Extra per ogni chiavevitta (tolleranza H7) - MAN-020-STD : euro 110,00



Standard equipment:

- 1 workstop Art. 370
 - 1 pair of positioning key-nuts for 16 mm slot Art. 297
 - 2 inserts Art. 291 ■ 1 box wrench Art. 375 ■ 1 T-wrench Art. 376
- Extra charge for each calibrated hole (F7 tolerance) - MAN-010-STD : euro 110,00
 Extra charge for each calibrated key nut (F7 tolerance) - MAN-020-STD : euro 110,00

 Vedi gruppo 4 per gamma completa accessori
 See group 4 for complete range of accessories


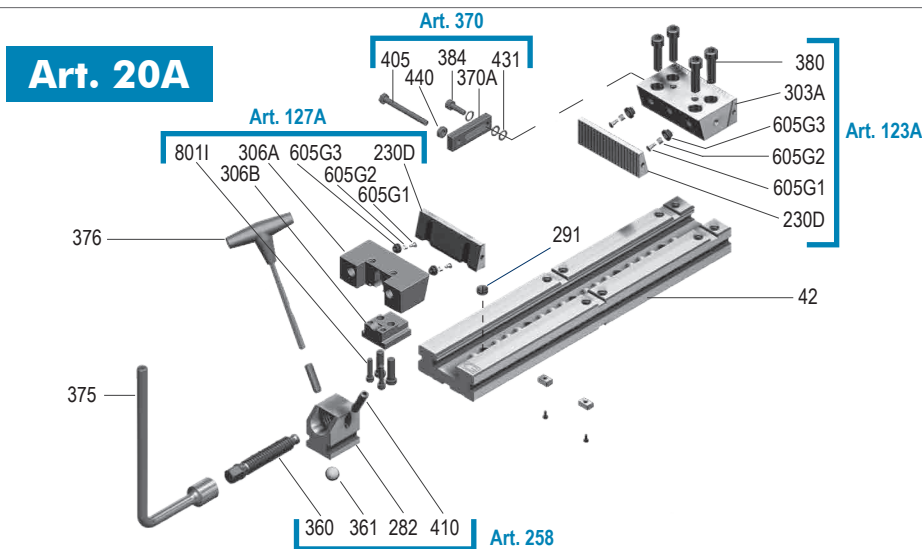
* Versione normale: Cava da 16H7 e fori calibrati Ø8F7 (t.1) - Ø16F7 (t. 2-3-4-5-6)
 * Normal version: 16H7 slot and calibrated holes Ø8F7 (t.1) - Ø16F7 (t. 2-3-4-5-6)

	5 40 kN					6 40 kN						
A	500	600	700	800	900	500	600	700	800	900	1000	1100
W	196					296						
B	63					78						
C	70					78						
D	805	905	1005	1105	1205	900	1000	1100	1200	1300	1400	1500
G	170					195						
kg	64	69	74	79	84	95	105	115	125	135	145	155
Cod.	2.20.A5500	2.20.A5600	2.20.A5700	2.20.A5800	2.20.A5900	2.20.A6500	2.20.A6600	2.20.A6700	2.20.A6800	2.20.A6900	2.20.A6100	2.20.A6110
€	3.135	3.497	3.863	4.225	4.588	4.370	4.808	5.245	5.681	6.117	6.554	6.989

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

4.23.0E501		4.23.0E601										
Art. 230E	223	296										
H	53	68										
H1	10	10										
1.21.25000		1.21.26000										
Art. 212	250	346										
4.23.0B501		4.23.0B601										
Art. 230B	180	236										
4.23.0F501		4.23.0F601										
Art. 230F	289	382										
Cod. Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41												
€	3.516	3.879	4.245	4.608	4.971	4.660	5.098	5.535	5.970	6.407	6.845	7.280

StandardMatic VISES

Centralina Pneumoidraulica Art.393/394/395 (EXTRA)
 Pneumohydraulic Power Unit Art.393/394/395 (EXTRA)


Art.	Pag.	Art.	Pag.
42	2.32	376	4.35
230D	4.21	380	4.28
282	4.36	384	4.28
291	4.35	405	4.35
297	4.34	410	4.36
303A	4.30	431	4.28
306A	4.30	440	4.28
306B	4.30	605G1	4.22
360	4.36	605G2	4.22
361	4.36	605G3	4.22
370A	4.35	801I	5.61
375	4.35	-	-

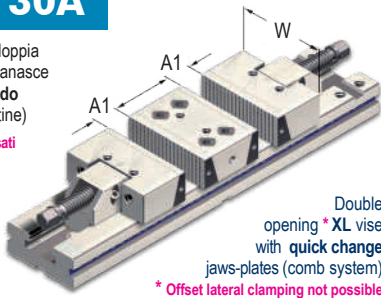
2

Tipo (grandezza) morsa / Vise type (size)	kN	1		2		3		4	
		16 kN	25 kN	30 kN	30 kN	30 kN	30 kN	30 kN	
Apertura massima / Maximum spread	A1	2 x 90	2 x 100	2 x 110	2 x 160	2 x 120	2 x 170	2 x 220	2 x 270
	W	96	121	146		171			
	B	28	38	48		58			
	C	35	40	50		58			
	D	460	520	580	680	666	766	866	966
	G	75	95	125		145			
	kg	6.8	12.9	25.5	29	37	42	47	52
	Cod.	2.30.A1900	2.30.A2100	2.30.A3110	2.30.A3160	2.30.A4120	2.30.A4170	2.30.A4220	2.30.A4270
	€	1.173	1.557	1.922	2.096	2.242	2.425	2.608	2.794

Art. 30A

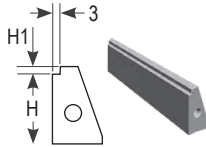
Morsa *XL a doppia apertura con ganasce a cambio rapido (sistema a pettine)

* Serraggi disassati lateralmente non possibili


 Double opening *XL vise with quick change jaws-plates (comb system)
 * Offset lateral clamping not possible

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !
Art. 230E

 Piastra ganascia intercambiabile
 Interchangeable jaw plate

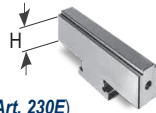
 Vedi pagina 4.21 per altezze disponibili
 See page 4.21 for available height


Cod.	4.23.0E101	4.23.0E201	4.23.0E301	4.23.0E401
€	95	105	128	158
H	23	33	43	53
H1	5	5	5	5

Art. 212

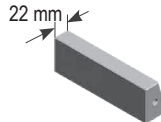
 Ganascia mobile intermedia
 (da usare con Art. 230E)

Intermediate movable jaw (to be used with Art. 230E)



Cod.	1.21.21000	1.21.22000	1.21.23000	1.21.24000
€	105	128	165	208

Art. 230B

 Piastra ganascia intercambiabile dolce
 Soft interchangeable jaw plate


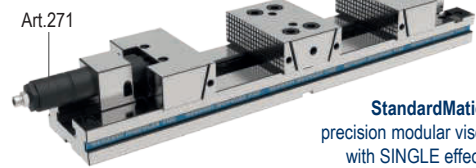
Cod.	4.23.0B101	4.23.0B201	4.23.0B301	4.23.0B401
€	79	86	101	129

Art. 230F

 Piastra ganascia intercambiabile prismatica
 Prismatic interchangeable jaw plate

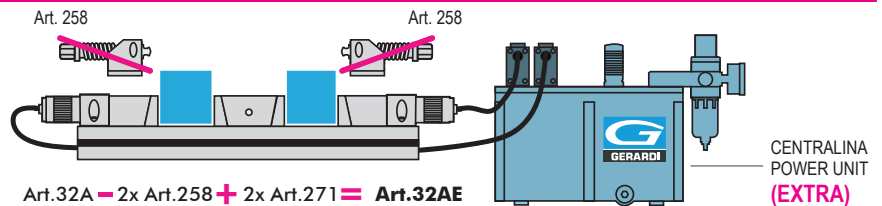

Cod.	4.23.0F101	4.23.0F201	4.23.0F301	4.23.0F401
€	127	136	162	205

Art.30AE
NEW 2024

 Morsa modulare StandardMatic
 con cilindro idraulico a SINGOLO effetto


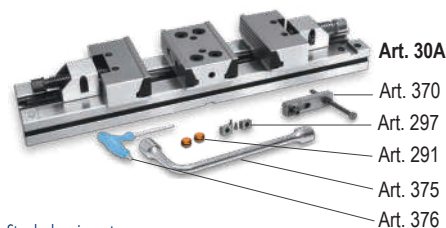
StandardMatic precision modular vise with SINGLE effect hydraulic cylinder

Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41							
€	1.633	2.037	2.437	2.611	2.821	3.006	3.188	3.373

MORSE StandardMatic


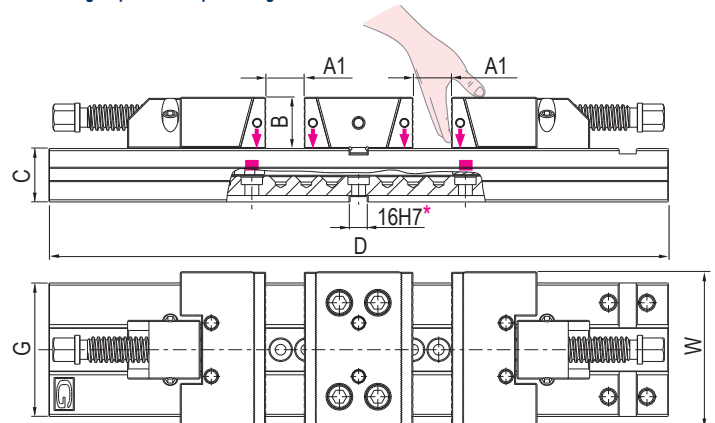
Dotazione standard:

- 1 arresto laterale Art. 370
 - 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
 - 2 tappi Art. 291 ■ 1 chiave a pipa Art. 375 ■ 1 chiave a "T" Art. 376
- Extra per ogni foro calibrato (tolleranza F7) - MAN-010-STD : euro 110,00
 Extra per ogni chiaveveta (tolleranza H7) - MAN-020-STD : euro 110,00



Standard equipment:

- 1 workshop Art. 370
 - 1 pair of positioning key-nuts for 16 mm slot Art. 297
 - 2 inserts Art. 291 ■ 1 box wrench Art. 375 ■ 1 T-wrench Art. 376
- Extra charge for each calibrated hole (F7 tolerance) - MAN-010-STD : euro 110,00
 Extra charge for each calibrated key nut (F7 tolerance) - MAN-020-STD : euro 110,00

 Vedi gruppo 4 per gamma completa accessori
 See group 4 for complete range of accessories

 * Versione normale: Cava da 16H7 e fori calibrati Ø8F7 (t.1) - Ø16F7 (t. 2 - 3 - 4 - 5 - 6)
 * Normal version: 16H7 slot and calibrated holes Ø8F7 (t.1) - Ø16F7 (t. 2 - 3 - 4 - 5 - 6)

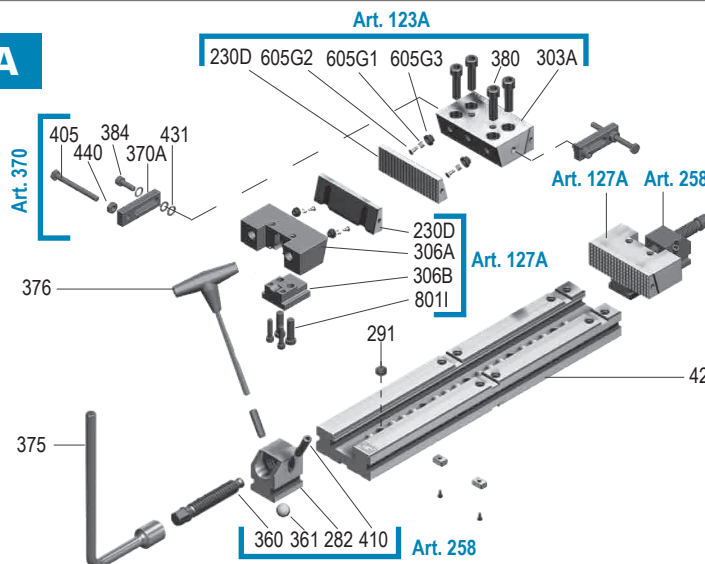
	5 40 kN					6 40 kN						
	2 x 150	2 x 200	2 x 250	2 x 300	2 x 350	2 x 160	2 x 210	2 x 260	2 x 310	2 x 360	2 x 410	2 x 460
A1												
W	196					296						
B	63					78						
C	70					78						
D	805	905	1005	1105	1205	900	1000	1100	1200	1300	1400	1500
G	170					195						
kg	64	69	74	79	84	95	105	115	125	135	145	155
Cod.	2.30.A5150	2.30.A5200	2.30.A5250	2.30.A5300	2.30.A5350	2.30.A6160	2.30.A6210	2.30.A6260	2.30.A6310	2.30.A6360	2.30.A6410	2.30.A6460
€	3.644	4.008	4.370	4.732	5.100	5.207	5.644	6.083	6.517	6.955	7.392	7.824

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art.	Price	Diagram	Price									
4.23.0E501 Art. 230E	223		4.23.0E601 296									
H	53		68									
H1	10		10									
4.23.0B501 Art. 230B	180		4.23.0B601 236									
4.23.0F501 Art. 230F	289		4.23.0F601 382									
Cod.	Vedi pag. 4.40 - 4.41 - See pag. 4.40 - 4.41											
€	4.345	4.709	5.071	5.433	5.801	5.720	6.156	6.594	7.029	7.466	7.904	8.336

StandardMatic VISES

Centralina Pneumoidraulica Art.393/394/395 (EXTRA)
 Pneumohydraulic Power Unit Art.393/394/395 (EXTRA)

Art. 30A


Art.	Pag.	Art.	Pag.
42	2.32	376	4.35
230D	4.21	380	4.28
282	4.36	384	4.28
291	4.35	405	4.35
297	4.34	410	4.36
303A	4.30	431	4.28
306A	4.30	440	4.28
306B	4.30	605G1	4.22
360	4.36	605G2	4.22
361	4.36	605G3	4.22
370A	4.35	801I	5.61
375	4.35	-	-

Tipo (grandezza) / Type (size)
Art. 42

 Slittone base serie **XL**
 senza alcuna dotazione

 Vise base **XL** series
 supplied without any accessory

	1	2	3	4				
D	450	520	580	680	666	766	866	966
kg	6.6	10.7	20.7	24.7	30.2	34.8	39.3	43.8
Cod.	1.80.11460	1.80.21520	1.80.31580	1.80.31680	1.80.41666	1.80.41766	1.80.41866	1.80.41966
€	443	611	778	922	908	1.062	1.215	1.369

 Versione normale: Cave da 16 mm (H7)
 Versione opzionale: Fori rettificati e calibrati con tolleranza F7
 Extra per ogni foro calibrato (Tolleranza F7): € 100,00

Art. 42Z

 Slittone base serie **Zero Point**
 senza alcuna dotazione

 Vise base **Zero Point** series
 supplied without any accessory

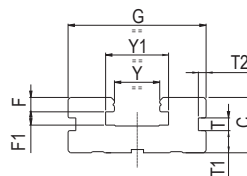
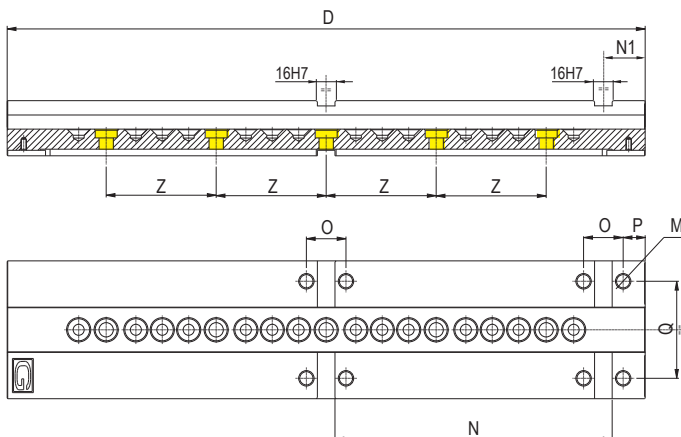
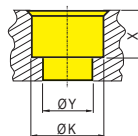
	1	2	3	4				
D	450	520	580	680	666	766	866	966
kg	6.4	10.5	20.5	24.5	29.9	34.5	39	43.5
Cod.	2.42.Z1460	2.42.Z2520	2.42.Z3580	2.42.Z3680	2.42.Z4666	2.42.Z4766	2.42.Z4866	2.42.Z4966
€	580	748	914	1.057	1.046	1.199	1.352	1.641

Tolleranza / Tolerance

- 0,02

C	35	40	50		38			
D	450	520	580	680	666	766	866	966
F	10	12	13				15	
F1	10	10	12				18	
G	75	95	125				145	
Y	21	28	41				51	
Y1	31	41	57				70	
M	M10	M12	M14				M16	
N	195	225	252	302	293	343	393	443
N1	35	35	38				40	
O	32	32	36				36	
P	19	19	20				22	
Q	50	62	88				100	
T	9,5	9,5	11,5				11,5	
T1	15	15	20				20	
T2	5	5	7				7	
Z	100	100	100				100	

Art. 42

 Slittone base serie **XL** / Vise base **XL** series

Dettaglio foro per vite TCEI / TCEI screw hole details


Type	1	2	3	4	5	6
X	4,5	5,5	8	8	17	17
ØY	6,5	8,5	13	13	17	17
ØK	10,5	13,5	19	19	26	26

	5					6						
D	805	905	1005	1105	1205	900	1000	1100	1200	1300*	1400*	1500*
kg	64	69	74	79	84	95	105	115	125	135	145	155
Cod.	1.80.51805	1.80.51905	1.80.51005	1.80.51105	1.80.51205	1.80.61900	1.80.61000	1.80.61100	1.80.61200	1.80.61300	1.80.61400	1.80.61500
€	1.532	1.888	2.194	2.500	2.805	2.146	2.552	2.909	3.315	3.722	4.078	4.486

Normal version: 16 mm slots (H7)
 Optional version: Ground calibrated holes F7 tolerance
 Extra for each calibrated hole (F7 tolerance): € 100,00

* Base composta da 2 pezzi uniti
 Base made of 2 spliced pieces

D	805	905	1005	1105	1205	900	1000	1100	1200	*1300	*1400	*1500
kg	60	65	70	75	80	91	101	111	121	131	141	151
Cod.	2.42.Z5805	2.42.Z5905	2.42.Z5005	2.42.Z5105	2.42.Z5205	2.42.Z6900	2.42.Z6100	2.42.Z6110	2.42.Z6120	2.42.Z6130	2.42.Z6140	2.42.Z6150
€	1.668	2.024	2.332	2.636	2.941	2.283	2.688	3.044	3.452	3.858	4.215	4.623

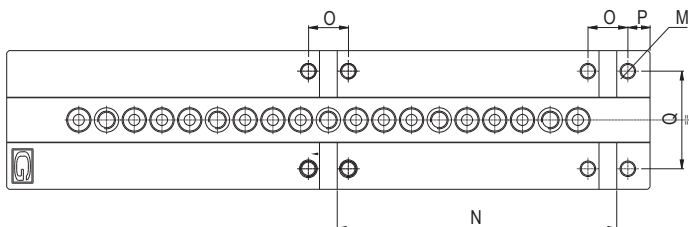
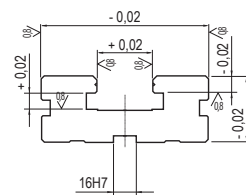
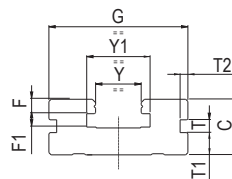
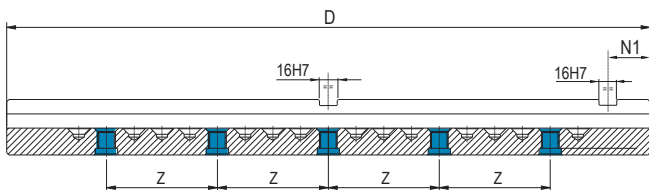
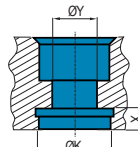
* Base composta da 2 pezzi uniti
 Base made of 2 spliced pieces

C	70					58						
D	805	905	1005	1105	1205	900	1000	1100	1200	1300	1400	1500
F	20					20						
F1	18					18						
G	170					195						
Y	61					71						
Y1	80					90						
M	M20					M20						
N	357,5	407,5	457,5	507,5	557,5	405	455	505	555	605	655	707
N1	45					45						
O	44					44						
P	23					23						
Q	120					133						
T	17,5					17,5						
T1	26					26						
T2	10					10						
Z	100					100						

Art. 42Z

Slittone base serie Zero Point / Vise base Zero Point series

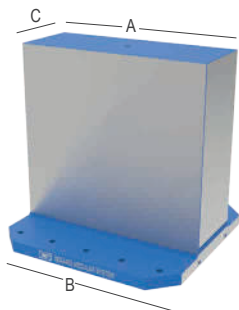
Tolleranze generiche per morse XL / XL vise generic tolerances


Dettaglio foro per Zero Point / Zero Point hole details


Type	1	2	3	4	5	6
X	6					
Y	M16	M16	M16	M16	M16	M16
Ø K	20					

PREDISPOSIZIONE e MONTAGGIO MORSE su SPALLE LAVORATE

TOMBSTONES SET-UP and VISES MOUNTING on 2 SIDE MACHINED TOMBSTONES

Art. 55C
Spalla lavorata
 2 sides machined tombstone

 Dim. A=800 / B=800 /
 C=300 / H=800

Cod. 8.55.C00191

€ 9.988
Art. 35
Tipo di morsa
 Vise type

 Art.35 Type 4 2x170
€ 2.425

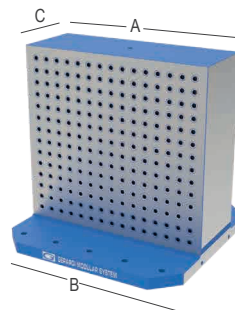
Cod. 2.35.41700

Numero morse x 4
 Vises number

Tot. € 9.700

MONTAGGIO e ALLINEAMENTO MORSE su SPALLE a RETICOLO

ALIGNEMENT and VISES MOUNTING on 2 SIDE GRID TOMBSTONES

Art. 55F
Spalla a reticolo
 2 sides grinded tombstone

 Dim. A=800 / B=800 /
 C=300 / H=800

Cod. 8.55.F00191

€ 14.982
Art. 35
Tipo di morsa
 Vise type

 Art.35 Type 4 2x170
€ 2.425

Cod. 2.35.41700

Numero morse x 6
 Vises number

Tot. € 14.550

Predisposizione e montaggio completo

Complete set up & mounting



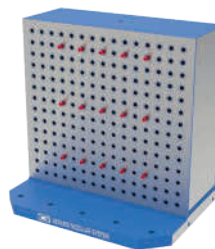
Cod. MAN-040-STD

 Per morsa / each vise € 220
Tot. € 880

Realizzazione di fori filettati o fori di fissaggio (da un minimo di 4 a un massimo di 6), fori calibrati o chiavette (da un minimo di 2 a un massimo di 3).
 Creation of threaded holes or screw holes (minimum 4 and maximum 6), calibrated holes or key-ways (minimum 2 and maximum 3).

Montaggio ed allineamento (standard)

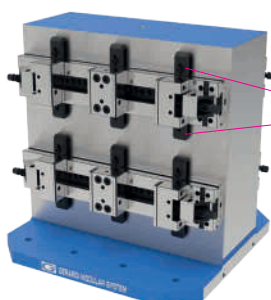
(Standard) Assembly and alignment



Cod. MAN-070-STD

 Per morsa / each vise € 110
Tot. € 660

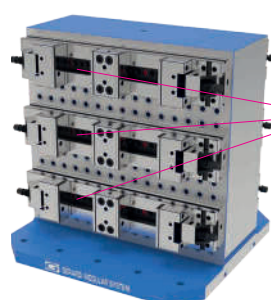
Montaggio di una o più morse e/o attrezzature già predisposte tra loro comprensivo di controllo manuale. Il prezzo di listino comprende manodopera, viti, staffe e tasselli per singola morsa.
 Assembly of one or more vises or equipments already interfaced between themselves complete of manual check. The list price includes working hours, screws, holding clamps and key-nuts for only one vise.

Cubo con morse
 Cube with vises


Art.296

Tot. € 20.568

 TABULATO controllo DEA - MAN-100-STD : € 220 Extra
 PRINTOUT DEA control - MAN-100-STD : € 220 Extra

Cubo con morse
 Cube with vises


Art.83

Tot. € 30.192

 TABULATO controllo DEA - MAN-100-STD : € 220 Extra
 PRINTOUT DEA control - MAN-100-STD : € 220 Extra

Diagrammi di serraggio / Clamping diagrams

XL extra long bases

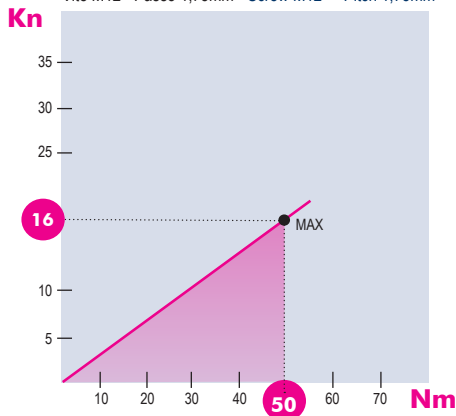
Diagrammi di serraggio meccanico con chiave dinamometrica

Mechanical clamping diagrams with torque wrench

Morse tipo Vises type

1

Vite M12 - Passo 1,75mm - Screw M12 - Pitch 1,75mm

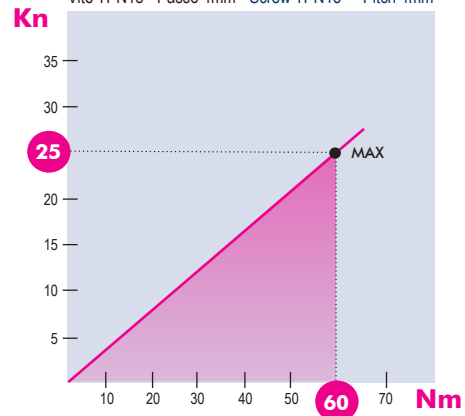


Art. 357

Morse tipo Vises type

2

Vite TPN18 - Passo 4mm - Screw TPN18 - Pitch 4mm



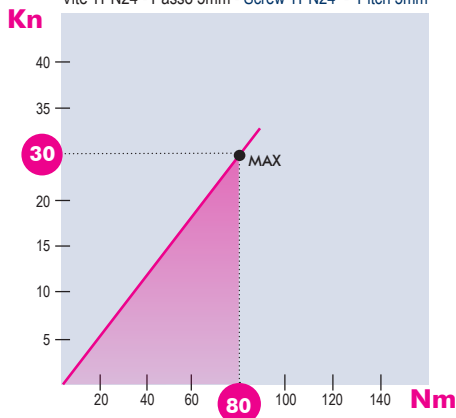
Gruppi di serraggio meccanici (Art. 258 e similari) / Mechanical clamping devices (Art. 258 and similar)

I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con le morse di varia grandezza (da 1 a 6), in funzione del momento applicato
 The following diagrams give the clamping force that can be obtained with each vise type (size 1 to 6) depending on the torque

Morse tipo Vises type

3-4

Vite TPN24 - Passo 5mm - Screw TPN24 - Pitch 5mm

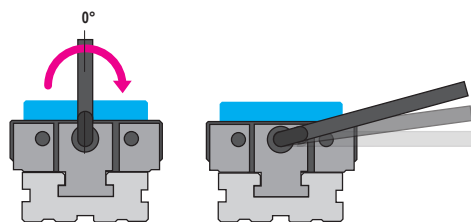
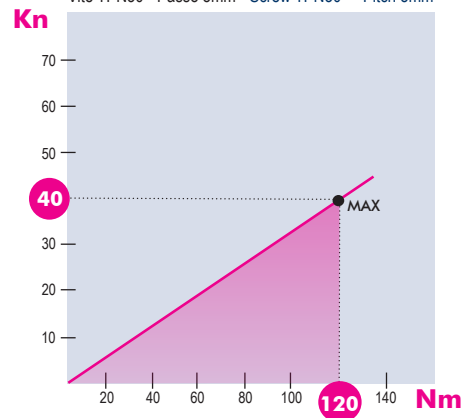


Art. 357

Morse tipo Vises type

5-6

Vite TPN30 - Passo 5mm - Screw TPN30 - Pitch 5mm



Serrare il pezzo agendo sulla vite di spinta con la chiave in dotazione senza utilizzare tubi o martelli.
 Attention: nel serraggio basta 1/4 di giro della chiave dal momento in cui la ganaschia tocca il particolare.

Clamp the workpiece turning clockwise the main spindle through the box wrench without using tubes or hammers.
 Attention: for the right clamping operation 1/4 of a turn of the box wrench is enough

Type (Size)	1	2	3	4	5	6
Kn	12	26	36	46	50	50

Valori indicativi Kn raggiunte a 90°
 Kn indicative values at 90°

NB: Alcuni fattori, come la lubrificazione, lo staffaggio, gli attriti ed altro, possono modificare i valori indicati fino a ± 10%. Per un corretto utilizzo non superare i valori indicati nel grafico
 Some factor as lubrication, clamping on the machine table, frictions and more can modify above values within a ± 10% range. For optimum operation do not exceed chart values.

CONTROLLO ALLINEAMENTO TRA CAVA TRASVERSALE E GANASCIA FISSA

ALIGNMENT BETWEEN THE CROSS KEYWAY AND THE FIXED JAW PLATE

2

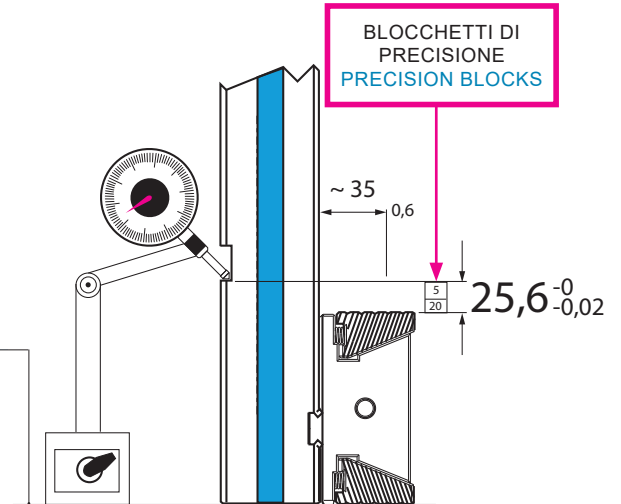
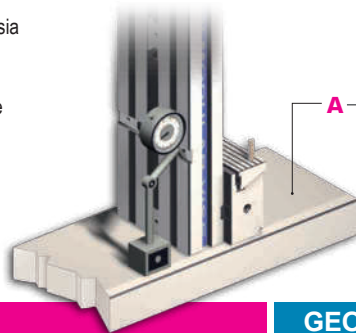
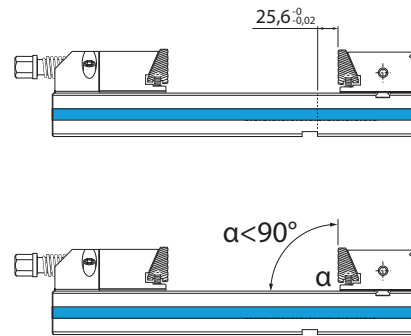
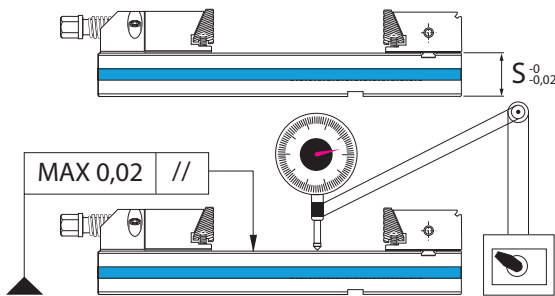
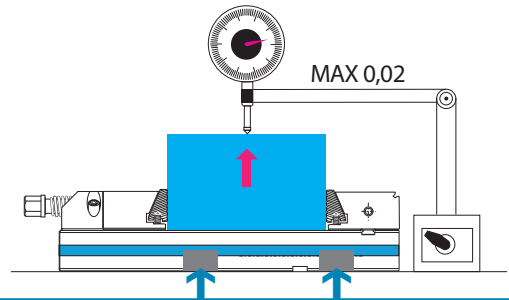
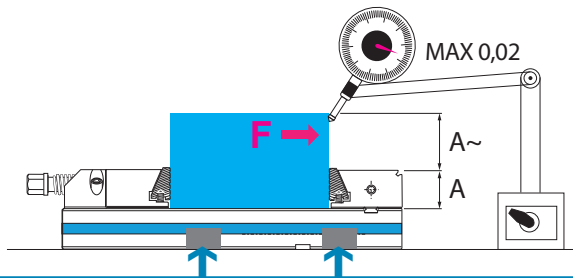

Libretto Istruzioni / Instruction Book

Scansiona il QR code e scarica le istruzioni complete

Scan the QR code to download the complete instructions

Posizionare la morsa verticalmente assicurandosi che sia perfettamente parallela al piano di appoggio **A** nei due sensi. Successivamente, con un comparatore centesimale, controllare il parallelismo del piano cava e della ganascia fissa.

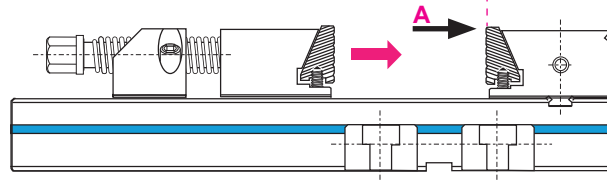
Set the vise vertically ensuring that it is perfectly parallel to the table **A** in both sides. Then with an indicator check the parallelism of the keyway and its alignment with the fixed jaw plate.


TOLLERANZE GEOMETRICHE
GEOMETRIC ACCURACIES

TOLLERANZE DINAMICHE
DYNAMIC ACCURACIES


Morsa ancorata con 2 coppie di staffe Art.296 / Vise clamped with n. 2 pairs of Art.296

Valori di flessione nel punto "A" in relazione alle forze di serraggio **PER MORSE TIPO 3**
 Deflection values at "A" in relation to clamping powers **FOR TYPE 3 VISES**

$$1 \text{ kgf} \cdot \text{m} = 9.806 \text{ Nm}$$



Kn	mm
60	0.1
50	0.07
40	0.05
30	0.03
20	0.02
10	0.01
5	0.004
2	0.002

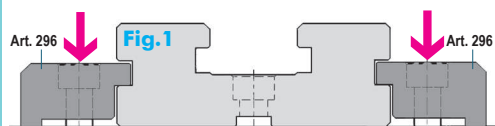
Il sistema consigliato per l'ancoraggio della morsa sulla tavola macchina è tramite STAFFE Art.296. (Fig.1)

E' possibile ancorare la morsa tramite viti centrali, ma in questo caso la quota X potrebbe flettere e compromettere lo scorrimento della ganascia mobile. (Fig.2)

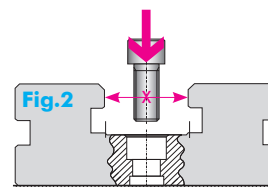
Nella tabella seguente sono riportati i valori di coppia massima applicabile mediante chiave dinamometrica

We recommend to fix the vises to the machine table using clamps Art. 296. (Fig. 1) The vise can be also fixed by means of central screws, but, this way, the X quota may suffer a bending and compromise the sliding of the movable jaws. (Fig. 2)

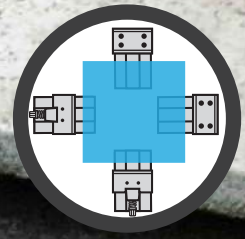
In the following table you can find the maximum torque values applicable through torque wrench.



Vite Screw	M8	M10	M12	M16
Torque Nm	40	80	140	345



Type	1	2	3	4	5	6
Torque Nm	18	40	140	140	250	250
Viti - Screws	2	2	3	4	4	4



3

*Wide range of standard elements
to clamp special applications*

STD - StandardFLEX

Elementi Modulari / Modular Elements

INDICE - INDEX

3

Art.	pages
44	12
44A	12
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102i	10
103	8
103A	9
103Ai	11
103i	10
104	8
104A	9
104Ai	11
104i	10
296	6
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981	3
985	3

Art.	pages
3.	

Art.	pages
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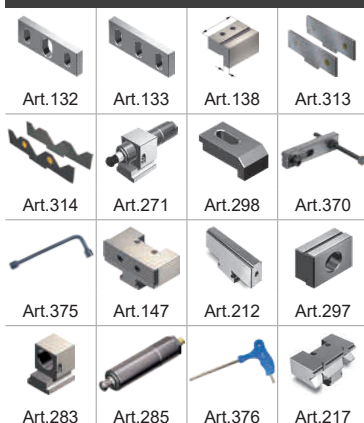
VALIGETTA DI CAMPIONATURA STD / StdFLEX

SAMPLE KIT CASE STD / StdFLEX

Art. 981



Art. 1 - All'Interno - Inside:



Morsa / Vise Art. 1

Cod. 0.98.10000

 PRICE LIST € ~~2.052~~

 SPECIAL PRICE € **1.100**

Art. 985



Art. 1 - All'Interno - Inside:



Morsa / Vise Art. 1A

Cod. 0.98.50000

 PRICE LIST € ~~2.081~~

 SPECIAL PRICE € **1.100**

SIMBOLOGIA DATI TECNICI

TECHNICAL DATA ICONS

GANASCE JAWS	Fissa Fixed	Mobile Movable	Intermedia Intermediate	Fissa con piastra singola Fixed with single plate	Fissa con piastra doppia Fixed with double plate
PIASTRE GANASCE JAW PLATES	Discendente Pull down	Piane Straight	Cambio rapido manuale Quick manual change	GRIP integrale Integral GRIP	

POSSIBILITÀ POSSIBILITY	Serraggio di 1 particolare Clamping only 1 piece	Serraggio di 2 particolari Clamping 2 pieces	Montaggio sul fianco o in serie Side mounting or gang operation	Predisposizione Zero Point Zero Point ready	Cubi-morsa Vise tower
PAGINE PAGES	Accessori & Ricambi Accessories & Spare Parts	Istruzioni corretto utilizzo Instruction for a proper use	Diagrammi forze di serraggio Clamping force diagrams		

OPZIONI LAVORAZIONI EXTRA

OPTIONS FOR EXTRA MACHINING

 Nei codici, **STD** si riferisce agli articoli dei gruppi 1, 2 e 3.
 In codes, **STD** refers to articles in groups 1, 2 and 3.

Lavorazione extra Extra machining	Cod.	PRICE LIST €
AGGIUNTA di un foro calibrato ADDITION of a calibrated hole	MAN-010-STD	110
AGGIUNTA di una chiave calibrata ADDITION of a calibrated key-way	MAN-020-STD	110
PREDISPOSIZIONE SEMPLICE SIMPLE SET UP	MAN-030-STD	110
PREDISPOSIZIONE & MONTAGGIO COMPLETO COMPLETE SET UP & MOUNTING	MAN-040-STD	220
MONTAGGIO PARZIALE PARTIAL ASSEMBLY	MAN-050-STD	110

Lavorazione extra Extra machining	Cod.	PRICE LIST €
MONTAGGIO SEMPLICE SIMPLE ASSEMBLY	MAN-060-STD	-
MONTAGGIO ed ALLINEAMENTO (Standard) (Standard) ASSEMBLY and ALIGNMENT	MAN-070-STD	110
MONTAGGIO VERTICALE COMPLETE VERTICAL ASSEMBLY	MAN-080-STD	165
ALLINEAMENTO e CONTROLLO tramite DEA ALIGNMENT and CONTROL by DEA \ CMM	MAN-090-STD	440
TABULATO controllo DEA PRINTOUT DEA control	MAN-100-STD	220

Vedi pagina 3.16 per esempi applicativi - See page 3.16 for application examples

Elementi modulari / Modular Elements

STD / StdFLEX



Precisione / Accuracy
 $\pm 0,02\text{mm}$



Durezza / Hardened
HRC 58±2

Elementi indipendenti per una versatilità estrema!

Independent elements for an extreme versatility!

USURA INESISTENTE / NO WEAR

Grazie all'accurata scelta dei materiali impiegati ed allo studio dimensionale computerizzato dei componenti. Costruzione completamente in speciali leghe di acciaio ad alta resistenza, normalizzato, cementato e temprato con durezza 58 ±2 HRC. Tutto ciò al fine di conferire massima rigidità, elevate prestazioni e usura inesistente. A riprova di tutto ciò assicuriamo **5 ANNI DI GARANZIA** su tutto il programma morse e organi meccanici in genere.

Thanks to the manufacturing with only the most suitable materials and to the structure of the vise components (developed using computer customised softwares and the experience gained during many years spent working on the specific field). High alloyed quality resistance steel, case hardened HRC 58 ±2, is used in manufacturing all the Gerardi vises and accessories in order to give maximum rigidity, high performances and no wear. As evidence we give **5 YEARS WARRANTY** on all the vises and mechanical components.

MODULARITÀ / MODULARITY

Tutte le morse ed accessori sono elementi componibili, intercambiabili e perfettamente allineabili fra loro e con i quali è possibile ottenere differenti soluzioni di bloccaggio. Secondo tale principio l'unico elemento che differenzia le attrezzature con identica larghezza di presa è la base (la cui lunghezza determina la massima apertura della morsa), mentre gli altri componenti sono identici. Mediante l'aggiunta o semplice sostituzione di alcuni particolari si può variare la tipologia di bloccaggio secondo le proprie esigenze utilizzando la stessa attrezzatura acquistata in un primo momento (bloccaggi singoli, con base girevole, doppi, verticali, di pezzi piani, tondi, piatti e grezzi, manuali, idraulici o pneumatici).

All vises and accessories are modular and components of all our vises will interchange with perfect alignment to provide different workholding solutions. With this basic principle the only difference between fixtures with the same width of clamping is the base (whose length determines the maximum opening of the vise), while the rest of components have same dimensions. Through the simple addition or substitution of some particulars You can change the type of clamping as Your needs require using the same fixture purchased before (single clamping, swivel base, double, vertical, smooth or round or flat or rough workpieces, manual, hydraulic or pneumatic).

DESIGN COMPATTO / SPACE SAVING DESIGN

La semplicità nonché la compattezza costruttiva consentono un'apertura notevole rispetto all'ingombro totale dell'attrezzatura. Inoltre lo stesso peso (solo 25 kg per una morsa da 150 mm di larghezza ganasce) è tale da consentire un facile trasferimento da una macchina all'altra.

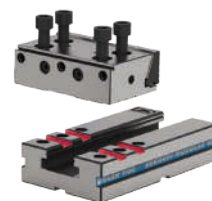
The space saving design and solid construction allow a maximum blocking ratio to total overall dimension of the vise. Furthermore the weight (only 25 kg for a 150 mm jaw width vise) allows a simple moving from one machine to another.

SERRAGGI RAPIDI / QUICK CLAMPING

Grazie allo scorrimento del gruppo di serraggio nella guida della base (a cremagliera) fino in prossimità del pezzo da lavorare dove si adatterà automaticamente alla nicchia più vicina. L'operazione di serraggio si conclude agendo sulla vite di bloccaggio. Oltre a quello manuale meccanico, sono disponibili 4 ulteriori sistemi di serraggio intercambiabili e indipendenti: 1 - Idraulici / 2 - Pneumatici / 3 - Idraulici manuali / 4 - Idraulici elettrici. L'operazione è in termini di secondi.

Thanks to the clamping device sliding in the vise base slide (compact rack type) till the proximity of the workpiece. The clamping is completed with the main screw. Besides the manual mechanic system, 4 further interchangeable and independent clamping systems are available: 1- Hydraulic / 2- Pneumatic / 3- Manual hydraulic / 4- Electrical hydraulic. The change needs only few seconds.

Doppia posizione Double position



Le ganasce fisse hanno la possibilità, grazie alla doppia chiave, di essere posizionate sia con piastrine all'interno della base, sia con piastrine che fuoriescono dalla base in modo da poter serrare anche particolari posizionati sul piano della tavola della macchina.

Fixed jaw has the possibility by the double key nuts, to be positioned both with jaw plates inside the vise base and with jaw plates externally from the vise base in order to be able to clamp even workpieces positioned on the machine table directly.



Ganascia monoblocco Solid Guided Jaws

Entrambe le ganasce sono costruite in corpo unico (non esistono slitte o tasselli di fissaggio) per garantire una maggiore rigidità e nessuna flessione. Entrambe le piastre ganasce sono costruite con un **angolo di spinta verso il basso**. Ciò assicura, nel momento della chiusura, una trazione del pezzo contro la base della morsa (per trascinamento) e di conseguenza un bloccaggio sicuro e preciso.

Both jaws bodies are built in one solid piece (no slides or key-nuts): in order to guarantee higher rigidity & no bendings. Both jaw plates are manufactured with a **pull down angle**. This ensures, during the clamping operation, a downward run of the workpiece against the vise base (by dragging) and thus a precise and safety clamping

Sovraganascia Stack type jaw

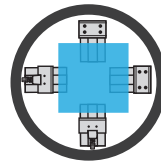


Quattro fori filettati supplementari sopra le ganasce danno la possibilità di installare ganasce sovrapponibili per applicazioni speciali.

4 extra tapped holes over the jaws for special Gerardi stack type jaw application

Gli elementi modulari GERARDI sono la parte mobile e la parte fissa della morsa Standard sezionate e rese completamente indipendenti per permettere di ottimizzare i bloccaggi di pezzi particolarmente grandi, che richiedano le lavorazioni più gravose, sfruttando anche il piano della tavola della macchina come punto di appoggio. Gli elementi modulari sono sicuramente l'esempio più lampante dell'estrema versatilità del sistema modulare Gerardi. La disponibilità di una vastissima gamma di composizioni modulari permette di realizzare con soluzioni standard anche gli allestimenti che credevate speciali.

GERARDI modular elements are simply standard vises sections, the movable section and the fixed one, which in this way result completely independent for an extreme versatility and to allow you perfect clamping even of big workpieces which need the heaviest machining using the machine table as surface. Modular elements are the best example of the extreme versatility of the Gerardi modular system. The availability of the broadest assortment program allows to build with standard solutions even the fixtures you thought special. They are a solution for a lot of applications and, with the many reference points available, a perfect complement or alternative to single or double vises.



SCAN IT TO SEE

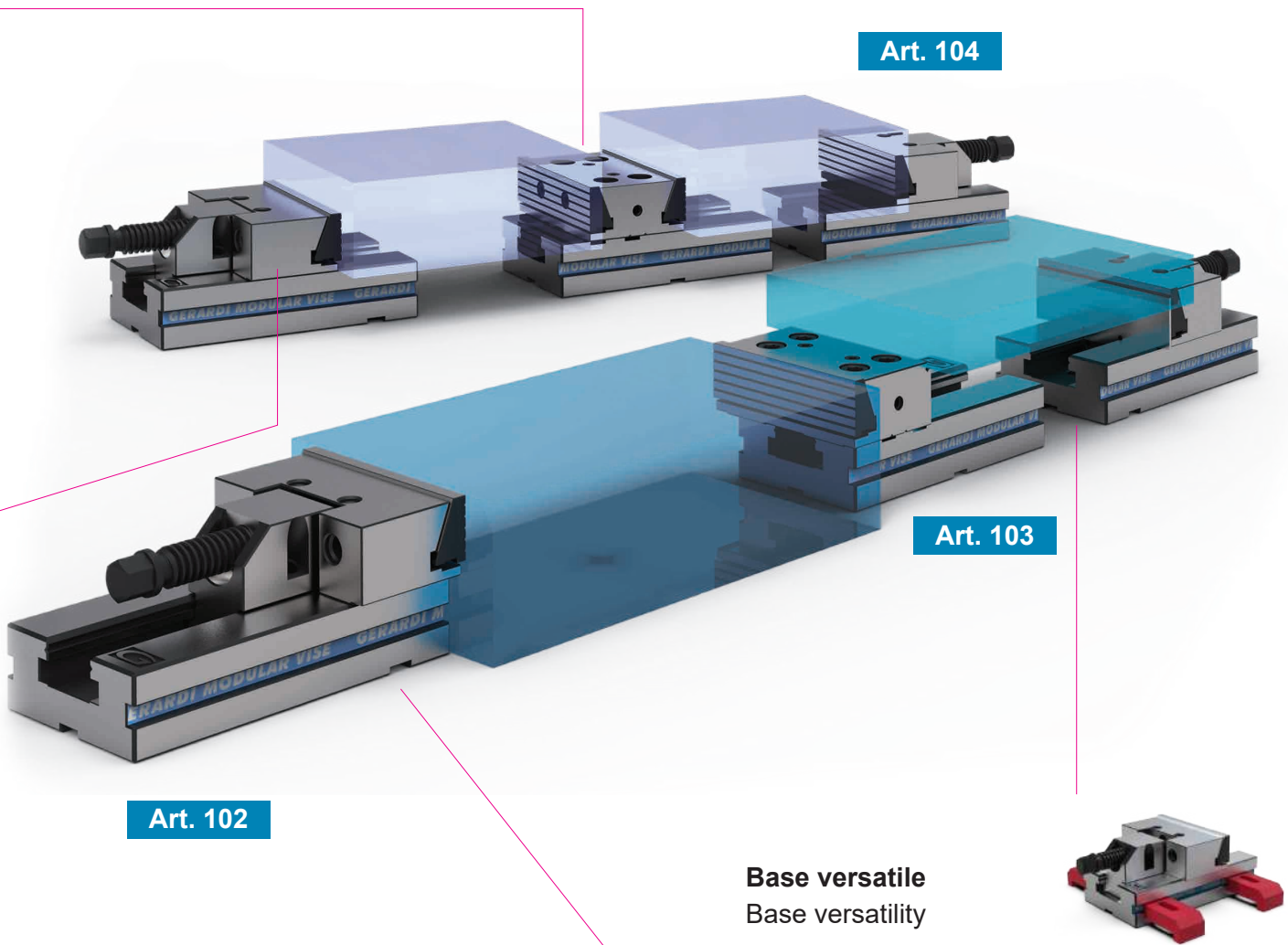


THE WEB PAGE



*Ampia gamma di moduli standard
per ottenere allestimenti speciali*
*Wide range of standard elements
to clamp special applications*

3



Art. 104

Art. 103

Art. 102

Base versatile
Base versatility



Slittone base (per Art. 103 e 104) o elemento di prolunga (per Art.102) sempre previsti con chiavette di posizionamento longitudinali e trasversali per allineamento agli assi della macchina.

Vise bases (for Art. 102 and 104) or base extensions (for Art. 102) are always built with longitudinal and cross keyways in order to be aligned with the machine axis..

Staffe d'ancoraggio / Vise holding clamps

NEW
2024

Standard / StandardFLEX

Coppia staffe di fissaggio Art.296, complete di vite e dado a "T"

Pair of vise holding clamps Art.296 complete of screw and "T" nuts

3

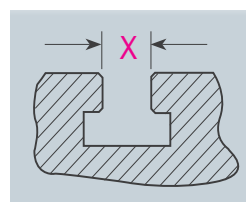
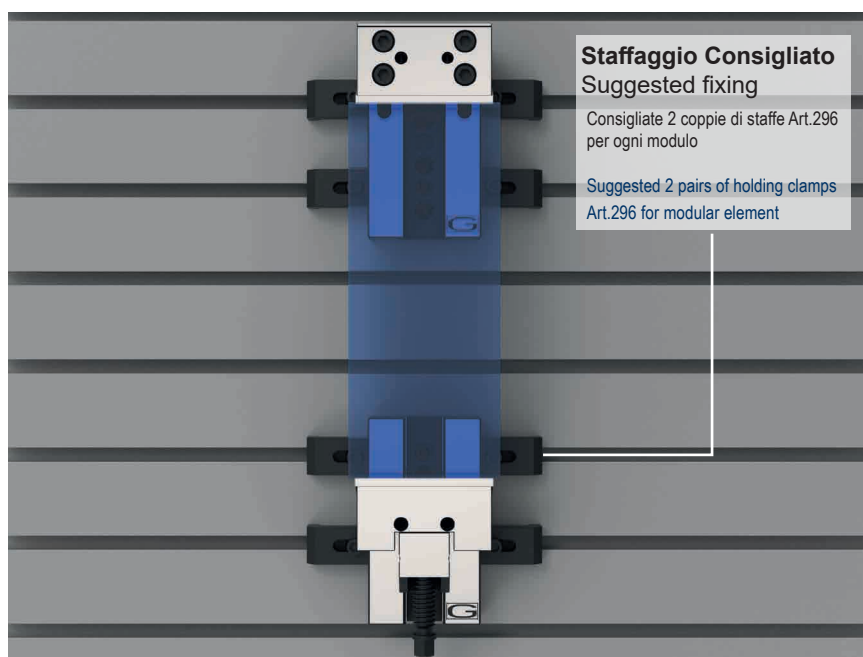


Esempio d'ordine per morsa tipo 3 su macchina con cave a T da 18mm: **Art.296 T.3 X=18mm**

Oppure con codice: **2.29.6300 X=18mm**

Order example for Type 3 vise on machine with 18mm T-slots: **Art.296 T.3 X=18mm**

Also with code: **2.29.6300 X=18mm**

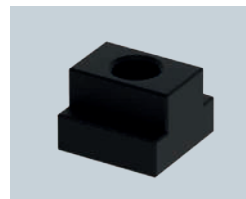


Cava a T

T Slot

Specificare sempre la cava della vostra macchina

Always specify the machine T-slot dimension

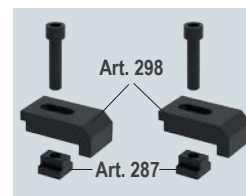


Art.287 (Pag.4.34)

Dadi a T - T Nuts

Per fissaggio morse alle cave a T della macchina

For vise clamping on the machine T-slots



Art.296

(Art.298 + Art.287)

Consigliate 2 coppie di staffe Art.296 per ogni elemento modulare

Suggested 2 pairs of holding clamps Art.296 for each modular element

Tipo (grandezza) morsa Vise type (size)		1				1 - 2				3 - 4				5 - 6																		
Art. 296 Coppia di staffe Holding clamps pair	Cava a T slot X	12	14	16	18	12*	14	16	18	20	18*	20	22	16	18	20	22	18*	20	22	16	18	20	22	18*	20	22					
	T-nuts Ref. N°	8	9	10	11	12	13	14	20	21	22	32	33	34	20	21	22	23	32	33	34	20	21	22	23	32	33	34				
	Filetto vite Screw thread	M8				M10				M12 *				M16				M12 *				M16				M12				M16 *		
1 X M8 	A	50	50	50	50	50	50	50	50	76	76	76	76	76	76	76	76	86	86	86	86	86	86	86	86	86	86	86	86			
	B	24	24	24	24	24	24	24	24	30	30	30	30	30	30	30	30	40	40	40	40	40	40	40	40	40	40	40	40			
	C	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	10	10	10	10	10	10	10	10	10	10	10	10			
	Ø D	8,5	11	13	17	11	13	17	17	13	17	17	17	13	17	17	17	13	17	17	17	13	17	17	17	13	17	17	17			
	E	10	10	10	10	10	10	10	10	13	13	13	13	13	13	13	13	15	15	15	15	15	15	15	15	15	15	15	15			
	Ø F	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	G	14	16	17,5	19	16	17,5	19	19	17	16	16	16	17	16	16	16	26	26	26	26	26	26	26	26	26	26	26	26			
	G1	17	15	13	9	15	13	9	9	22	15	15	15	22	15	15	15	27	27	27	27	27	27	27	27	27	27	27	27			
	H	34	34	34	34	34	34	34	34	42	42	42	42	42	42	42	42	50	50	50	50	50	50	50	50	50	50	50	50			
	I	8	10	10	10	10	10	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	J	4	4	4	4	4	4	4	4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10			
T ± 0,1	15	15	15	15	15	15	15	15	20	20	20	20	20	20	20	20	26	26	26	26	26	26	26	26	26	26	26	26				
Cod.	2.29.61000 / M8	2.29.61000 / M10	2.29.61000 / M12	2.29.61000 / M16	2.29.63000 / M12	2.29.63000 / M12	2.29.65000 / M12	2.29.65000 / M16	2.29.63000 / M12	2.29.63000 / M12	2.29.65000 / M12	2.29.65000 / M16	2.29.63000 / M12	2.29.63000 / M12	2.29.65000 / M12	2.29.65000 / M16	2.29.63000 / M12	2.29.63000 / M12	2.29.65000 / M12	2.29.65000 / M16	2.29.63000 / M12	2.29.63000 / M12	2.29.65000 / M12	2.29.65000 / M16	2.29.63000 / M12	2.29.63000 / M12	2.29.65000 / M12	2.29.65000 / M16				
€	45	45	45	45	45	45	45	45	56	56	56	56	56	56	56	56	88	88	88	88	88	88	88	88	88	88	88	88				

*Scelta consigliata - Suggested choice

*Scelta NON consigliata - NO Suggested choice

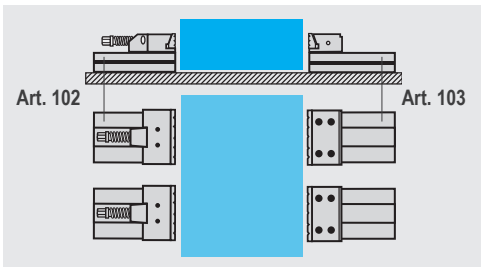
Soluzioni personalizzate / Customized solutions

Modular elements

Soluzioni personalizzate a tutti i vostri problemi di serraggio

Customized solutions for all your clamping problems

3

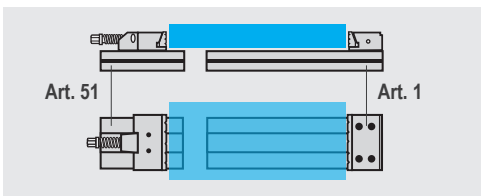


Esempio #1

Example #1

Particolari di grosse dimensioni posizionati direttamente sulla tavola machina

Huge workpieces clamped directly on the machine table

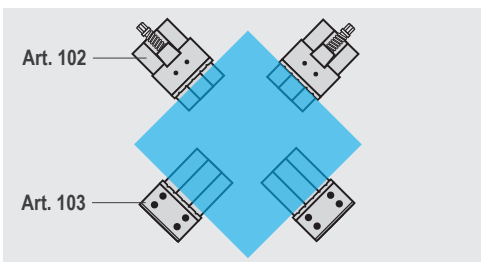


Esempio #2 Art.1+51

Example #2 Art. 1 + 51

Art.258 + Art.127 inseriti in un elemento di prolunga Art.51

Art.258 + Art. 127 to assemble them on a extension base Art.51

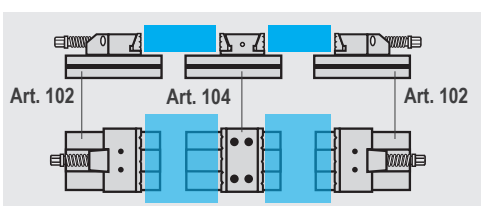


Esempio #3

Example #3

Particolari di medie dimensioni posizionati sugli elementi modulari

Medium size workpieces clamped directly on the vise sections

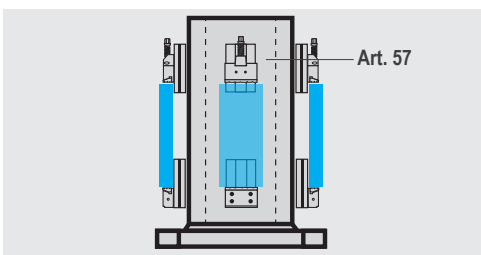


Esempio #4

Example #4

Elemento fisso doppio Art.104 + 2 elementi mobili Art.102

Double fixed vise section Art.104 + 2 movable vise section Art. 102

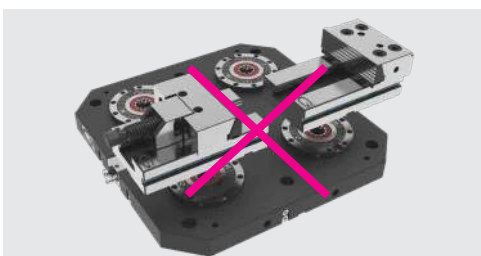


Esempio #5

Example #5

Elementi modulari su cubo a croce Art. 57

Modular elements assembled on cross cube type Art.57



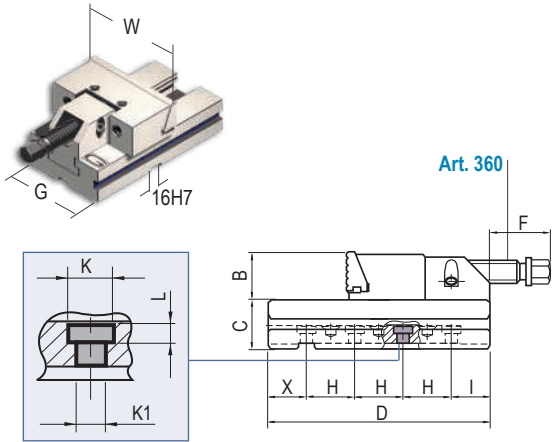
Utilizzo non conforme

Non compliant use

NON utilizzare gli elementi modulari in modo indipendente su due unità Zero Point senza collegarli tra di loro con una piastra d'interfaccia

NEVER mount modular elements independently on two Zero Point units without connecting them with an interface plate

3
Tipo (grandezza) morsa / Vise type (size)
Art. 102

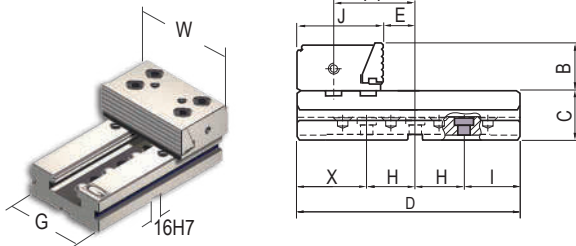
 Blocco tenditore completo di base.
 Movable jaw section and base assy.


M = numero fori / M = holes number

kN	1 16 kN	2 25 kN	3 30 kN	4 30 kN	5 40 kN	6 40 kN
W	100	125	150	175	200	300
B	30	40	50	60	65	80
C	35	40	50	58	70	78
D	140	160	230	240	300	350
F	55	83	82	62	92	70
G	75	95	125	145	170	195
H	40	40	50	50	100	100
I	29	39	40	82,5	50	83
K1 Ø	6,5	8,5	13	13	17	17
K Ø	10,5	13,5	19	19	26	26
L	4,5	5,5	8,5	8,5	17	17
X	31	41	40	57,5	50	67
kg	3,4	6,3	14,2	20,8	35	60
M	3	3	4	3	5	5
Cod.	2.10.21000	2.10.22000	2.10.23000	2.10.24000	2.10.25000	2.10.26000
€	380	471	593	694	1.034	1.597

 Disponibile anche versione **Art.112** con piastre piane - Also available **Art.112** version with straight plate jaws

Art. 103

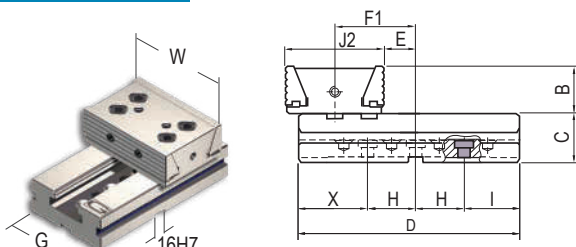
 Blocco fisso con ganascia fissa STD.
 Fixed jaw section and base STD.


M = numero fori / M = holes number

J	77,9	77,9	89,4	96,9	113,4	120,4
E	33,6	33,6	33,6	33,6	33,6	33,6
F1	76	76	84,5	89	100	107
X	31	31	72,5	79	45	52
H	40	40	50	50	100	100
I	29	49	57,5	61	55	98
kg	3,3	5,8	12,6	17,8	29,8	50,5
M	3	3	3	4	5	5
Cod.	2.10.31000	2.10.32000	2.10.33000	2.10.34000	2.10.35000	2.10.36000
€	329	412	536	593	973	1.514

 Disponibile anche versione **Art.113** con piastre piane - Also available **Art.113** version with straight plate jaws

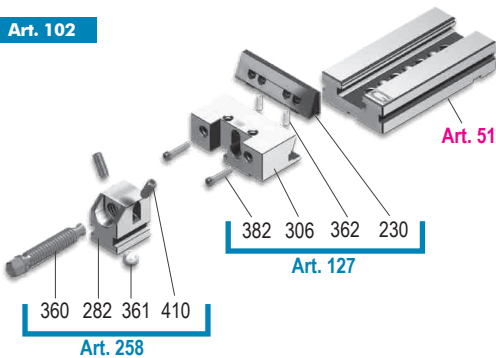
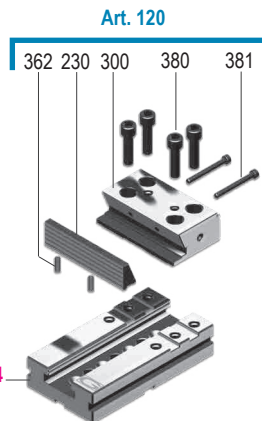
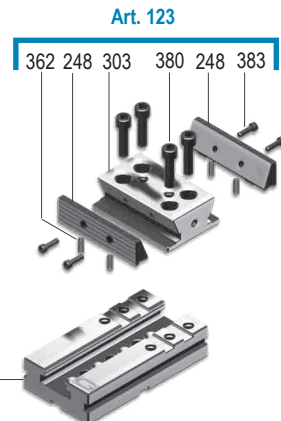
Art. 104

 Blocco fisso con ganascia doppia STD.
 Fixed double jaw section and base STD.


M = numero fori / M = holes number

J2	84,8	84,8	101,8	110,8	132,8	146,8
E	33,6	33,6	33,6	33,6	33,6	33,6
kg	3,4	6	13,3	18,8	30	52,5
M	3	3	3	4	5	5
Cod.	2.10.41000	2.10.42000	2.10.43000	2.10.44000	2.10.45000	2.10.46000
€	371	478	629	705	1.139	1.740

 Disponibile anche versione **Art.114** con piastre piane - Also available **Art.114** version with straight plate jaws

Art. 102

Art. 103

Art. 104


Art.	Pag.
44	3.12
44A	3.12
51	3.12
51A	3.12
120	4.8
123	4.8
127	4.8
230	4.9
248	4.9
258	4.36
282	4.36

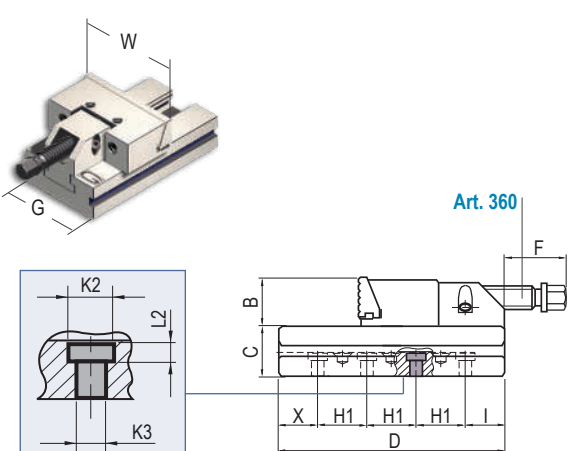
Dotazione standard:

■ 1 coppia di tasselli di posizionamento Art. 297

Standard equipment:

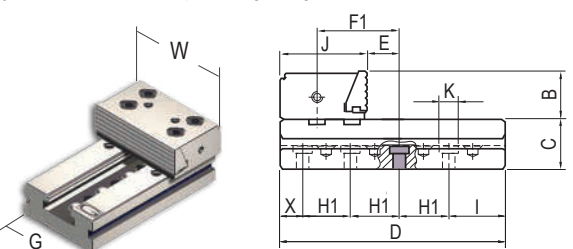
■ 1 pair of positioning key-nuts Art. 297

Tipo (grandezza) morsa / Vise type (size)	kN	1 16 kN	2 25 kN	3 30 kN	4 30 kN	5 40 kN	6 40 kN
Art. 102A a reticolo / grid *	W	100	125	150	175	200	300
	B	30	40	50	60	65	80
	C	35	40	50	58	70	78
	D	140	160	230	240	300	350
	F	55	83	82	62	92	70
	G	75	95	125	145	170	195
	H1	50	50	50	50	100	100
	I	54	39	40	57,5	69	83
	K2 Ø	25	25	25	25	25	25
	K3 Ø	16 ^{F7}	16 ^{F7}	16 ^{F7}	16 ^{F7}	16 ^{F7}	16 ^{F7}
	L2	8	8	10	10	10	10
	X	36	21	40	32,5	31	67
	kg	3,4	6,3	14,2	20,8	35	60
	M	2	3	4	4	3	3
	Cod.	2.10.2A100	2.10.2A200	2.10.2A300	2.10.2A400	2.10.2A500	2.10.2A600
	€	504	662	845	948	1.222	1.788



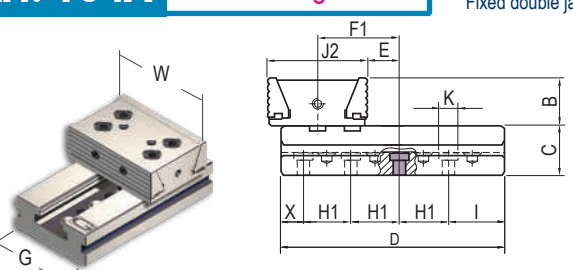
Foro calibrato / Calibrated hole M = numero fori / M = holes number

Art. 103A a reticolo / grid *	J	77,9	77,9	89,4	96,9	113,4	120,4
	E	33,6	33,6	33,6	33,6	33,6	33,6
	F1	76	76	84,5	89	100	107
	X	61	21	72,5	29	45	52
	H1	50	50	50	50	100	100
	I	29	49	57,5	61	55	98
	kg	3,3	5,8	12,6	17,8	29,8	50,5
	M	2	2	3	4	3	3
	Cod.	2.10.3A100	2.10.3A200	2.10.3A300	2.10.3A400	2.10.3A500	2.10.3A600
	€	455	600	726	845	1.165	1.706



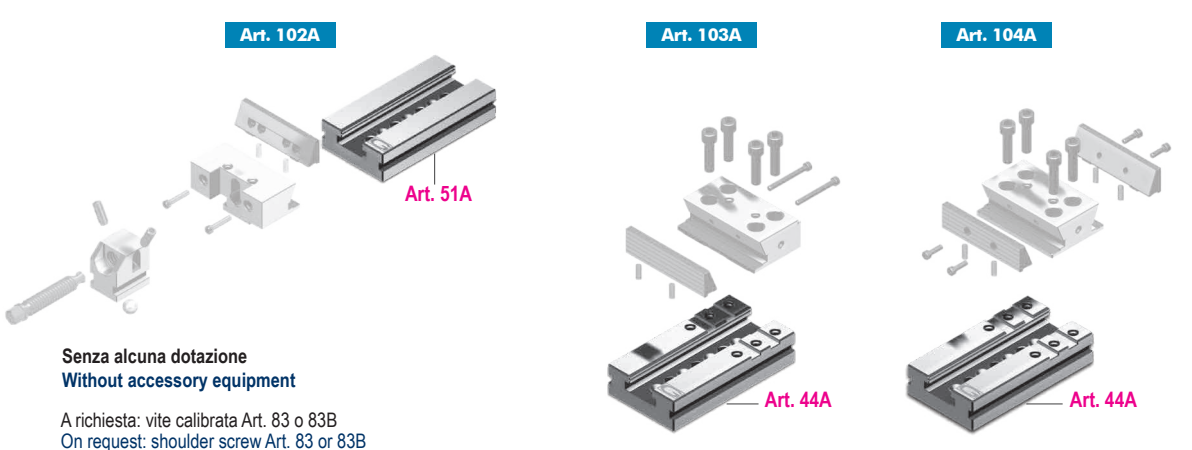
M = numero fori / M = holes number

Art. 104A a reticolo / grid *	J2	84,8	84,8	101,8	110,8	132,8	146,8
	E	33,6	33,6	33,6	33,6	33,6	33,6
	kg	3,4	6	13,3	18,8	30	52,5
	M	2	2	3	4	3	3
	Cod.	2.10.4A100	2.10.4A200	2.10.4A300	2.10.4A400	2.10.4A500	2.10.4A600
	€	498	678	820	956	1.329	1.928



M = numero fori / M = holes number

Art.	Pag.
300	4.29
303	4.29
306	4.29
360	4.36
361	4.36
362	4.28
380	4.28
381	4.28
383	4.28
410	4.36



Senza alcuna dotazione
 Without accessory equipment
 A richiesta: vite calibrata Art. 83 o 83B
 On request: shoulder screw Art. 83 or 83B

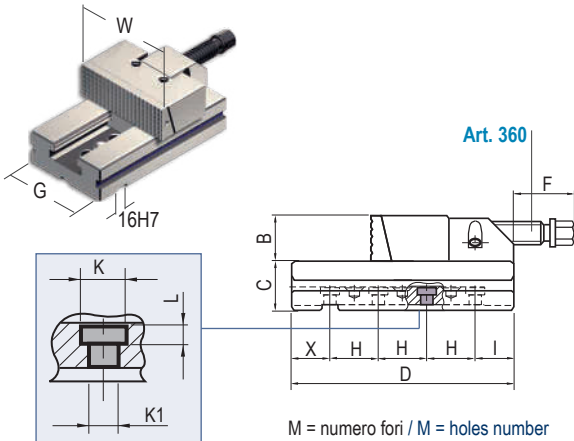
* Passo del reticolo = 50 mm - Vite calibrata Ø 16F7 Grid Pitch = 50 mm - Shoulder screw Ø 16F7

3
Tipo (grandezza) morsa / Vise type (size)

	1	2	3	4	5	6
	16 kN	25 kN	30 kN	30 kN	40 kN	40 kN
W	96	121	146	171	196	296
B	28	38	48	58	63	78
C	35	40	50	58	70	78
D	140	160	230	240	300	350
F	55	83	82	62	92	70
G	75	95	125	145	170	195
H	40	40	50	50	100	100
I	29	39	40	82,5	69	83
K1 Ø	6,5	8,5	13	13	17	17
K Ø	10,5	13,5	19	19	26	26
L	4,5	5,5	8,5	8,5	17	17
X	31	41	40	57,5	31	67
kg	3,4	6,3	14,2	20,8	35	60
M	3	3	4	3	5	5
Cod.	3.10.2i100	3.10.2i200	3.10.2i300	3.10.2i400	3.10.2i500	3.10.2i600
€	422	522	659	771	1.147	1.772

Art. 102i

* Blocco tenditore con ganaschia a cambio rapido. (Sistema a pettine)
 * Movable jaw section with quick change jaw plate. (Comb system)

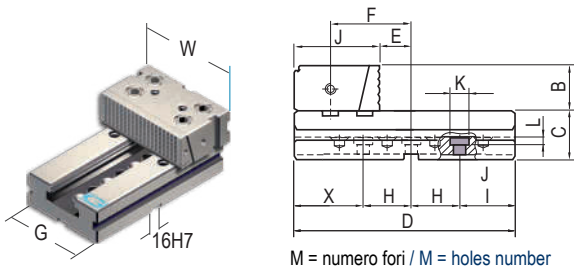


M = numero fori / M = holes number

* Serraggi disassati lateralmente non possibili * Offset lateral clamping not possible

Art. 103i

* Blocco fisso con ganaschia a cambio rapido. (Sistema a pettine)
 * Fixed jaw section with quick change jaw plate. (Comb system)



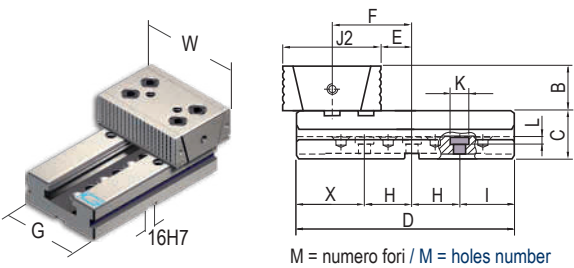
M = numero fori / M = holes number

J	77,9	77,9	89,4	96,9	113,4	120,4
E	33,6	33,6	33,6	33,6	33,6	33,6
F	76	76	84,5	89	100	107
X	31	31	72,5	29	45	52
H	40	40	50	50	100	100
I	29	49	57,5	61	55	98
kg	3,3	5,8	12,6	17,8	29,8	50,5
M	3	3	3	4	5	5
Cod.	3.10.3i100	3.10.3i200	3.10.3i300	3.10.3i400	3.10.3i500	3.10.3i600
€	367	455	594	659	1.081	1.682

* Serraggi disassati lateralmente non possibili * Offset lateral clamping not possible

Art. 104i

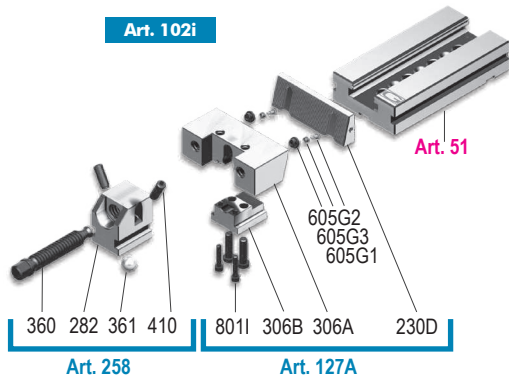
* Blocco fisso con ganaschia doppia a cambio rapido. (Sistema a pettine)
 * Fixed double-jaw section with quick change jaw plate. (Comb system)



M = numero fori / M = holes number

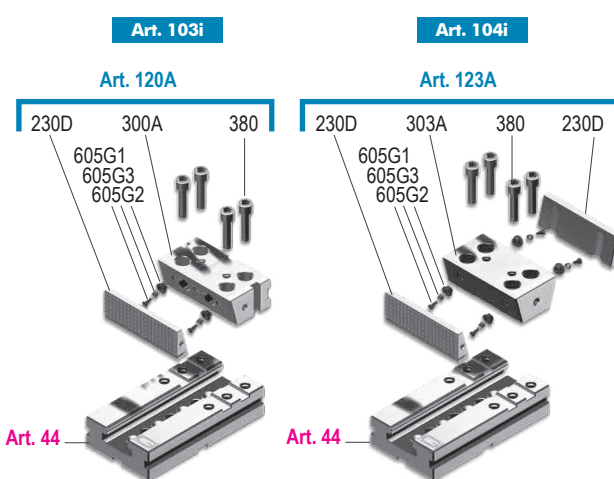
J2	84,8	84,8	101,8	110,8	132,8	146,8
E	33,6	33,6	33,6	33,6	33,6	33,6
kg	3,4	6	13,3	18,8	30	52,5
M	3	3	3	4	5	5
Cod.	3.10.4i100	3.10.4i200	3.10.4i300	3.10.4i400	3.10.4i500	3.10.4i600
€	414	544	699	782	1.264	1.932

* Serraggi disassati lateralmente non possibili * Offset lateral clamping not possible



Art. 258

Art. 127A



Art. 44

Art. 44

Art.	Pag.
44	3.12
44A	3.12
51	3.12
51A	3.12
120A	4.20
123A	4.20
127A	4.20
230D	4.21
258	4.36
282	4.36
300A	4.30

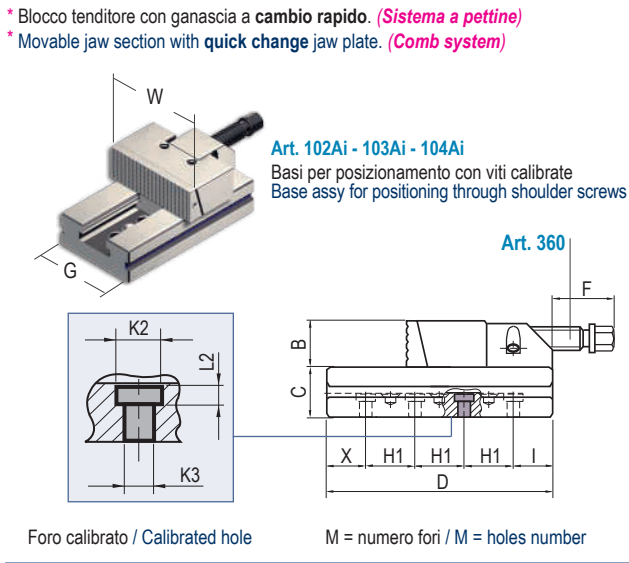
Dotazione standard:

■ 1 coppia di tasselli di posizionamento Art. 297 + 2 tappi Art. 291

Standard equipment:

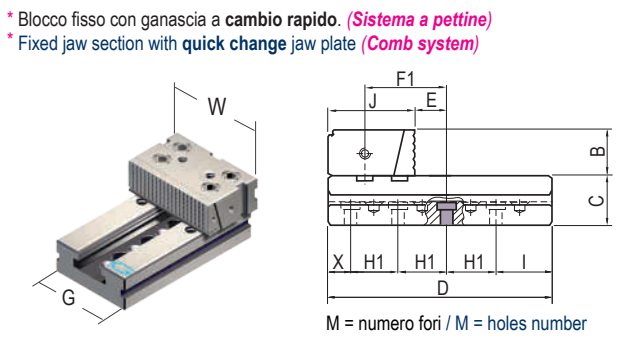
■ 1 pair of positioning key-nuts Art. 297 + 2 insert Art. 291

Tipo (grandezza) morsa / Vise type (size)	kN	1 16 kN	2 25 kN	3 30 kN	4 30 kN	5 40 kN	6 40 kN
Art. 102Ai a reticolo / grid *	W	96	121	146	171	196	296
	B	28	38	48	58	63	78
	C	35	40	50	58	70	78
	D	140	160	230	240	300	350
	F	55	83	82	62	92	70
	G	75	95	125	145	170	195
	H1	50	50	50	50	100	100
	I	54	39	40	57,5	69	83
	K3 Ø	16 F7	16 F7	16 F7	16 F7	16 F7	16 F7
	K2 Ø	25	25	25	25	25	25
	L2	8	8	10	10	10	10
	X	36	21	40	32,5	31	67
	kg	3,4	6,3	14,2	20,8	35	60
	M	2	3	4	4	3	3
	Cod.	3.10.2Ai10	3.10.2Ai20	3.10.2Ai30	3.10.2Ai40	3.10.2Ai50	3.10.2Ai60
	€	561	732	941	1.052	1.358	1.984



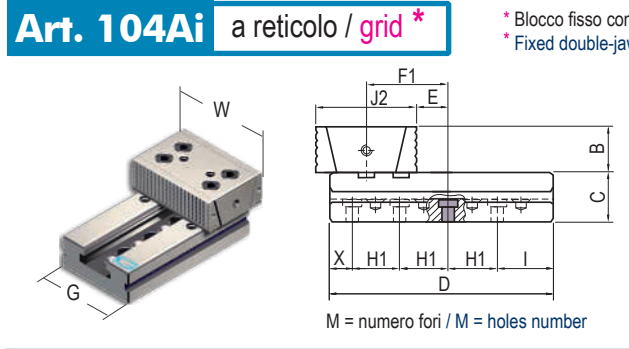
* Serraggi disassati lateralmente non possibili * Offset lateral clamping not possible

	J	77,9	77,9	89,4	96,9	113,4	120,4
	E	33,6	33,6	33,6	33,6	33,6	33,6
	F1	76	76	84,5	89	100	107
	X	61	21	72,5	29	45	52
	H1	50	50	50	50	100	100
	I	29	49	57,5	61	55	98
	kg	3,3	5,8	12,6	17,8	29,8	50,5
	M	2	2	3	4	3	3
	Cod.	3.10.3Ai10	3.10.3Ai20	3.10.3Ai30	3.10.3Ai40	3.10.3Ai50	3.10.3Ai60
	€	505	667	806	941	1.293	1.895



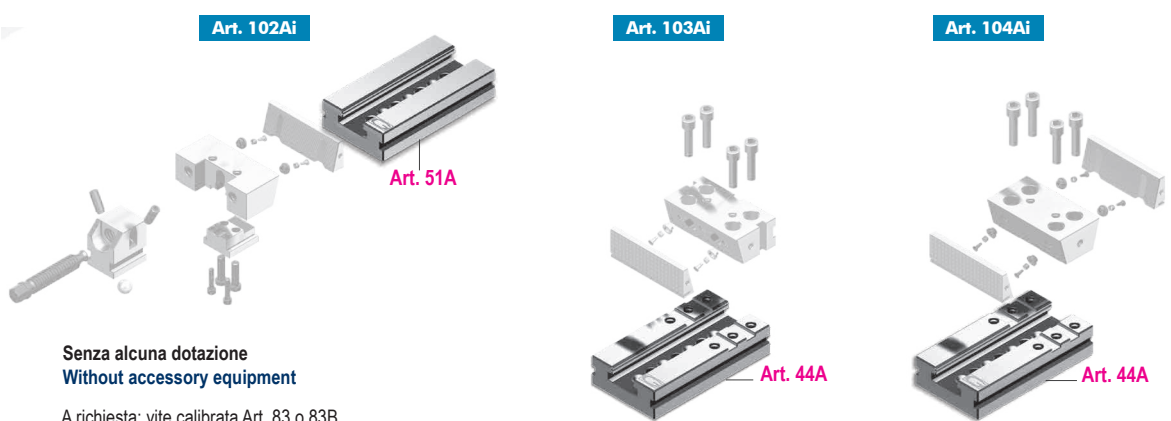
* Serraggi disassati lateralmente non possibili * Offset lateral clamping not possible

	J2	84,8	84,8	101,8	110,8	132,8	146,8
	E	33,6	33,6	33,6	33,6	33,6	33,6
	kg	3,4	6	13,3	18,8	30	52,5
	M	2	2	3	4	3	3
	Cod.	3.10.4Ai10	3.10.4Ai20	3.10.4Ai30	3.10.4Ai40	3.10.4Ai50	3.10.4Ai60
	€	553	754	911	1.063	1.474	2.142



* Serraggi disassati lateralmente non possibili * Offset lateral clamping not possible

Art.	Pag.
303A	4.30
306A	4.30
306B	4.30
360	4.36
361	4.36
380	4.28
410	4.36
605G1	4.22
605G2	4.22
605G3	4.22
8011	5.61



* Passo del reticolo = 50 mm - Vite calibrata Ø 16F7 Grid Pitch = 50 mm - Shoulder screw Ø 16F7

ELEMENTI MODULARI BASE

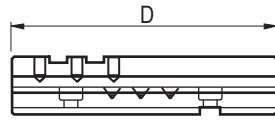
BASIC MODULAR UNITS

Extra per ogni foro calibrato (tolleranza F7) - MAN-010-STD : euro 110,00
 Extra charge for each calibrated hole (F7 tolerance) - MAN-010-STD : euro 110,00

3

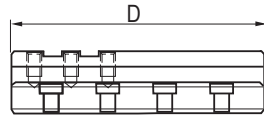
Tipo (grandezza) / Type (size)	1	2	3	4	5	6
Art. 44						
G	75	95	125	145	170	195
D	140	160	230	240	300	350
kg	1.8	3.3	6.9	8	14.5	21.8
Cod.	1.80.14140	1.80.24160	1.80.34230	1.80.44250	1.80.54300	1.80.64350
€	187	239	322	347	600	950

Slittone base per ganascia fissa
 Split base for fixed jaw



Art. 44A						
D	140	160	230	240	300	350
kg	1.7	3.2	6.8	7.9	14.4	21.7
Cod.	3.44.A1000	3.44.A2000	3.44.A3000	3.44.A4000	3.44.A5000	3.44.A6000
€	285	385	470	544	749	1.146

Slittone base a reticolo (Passo 50 mm, Ø 16 per blocco fisso)
 Split grid (50 mm) pitch, Ø 16 base for fixed section



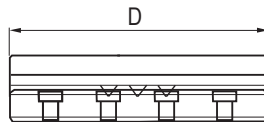
Art. 51						
D	140	160	230	240	300	350
kg	2.1	3.4	8.2	11.5	20	30
Cod.	1.80.13140	1.80.23160	1.80.33230	1.80.43250	1.80.53300	1.80.63350
€	158	199	269	314	499	792

Elemento di prolunga base per ganascia mobile
 Base extension for movable jaw



Art. 51A						
Cod.	3.51.A1000	3.51.A2000	3.51.A3000	3.51.A4000	3.51.A5000	3.51.A6000
€	258	347	468	510	646	943

Elemento di prolunga base a reticolo (Passo 50 mm, Ø 16)
 Grid (50 mm) pitch, Ø 16 base extension

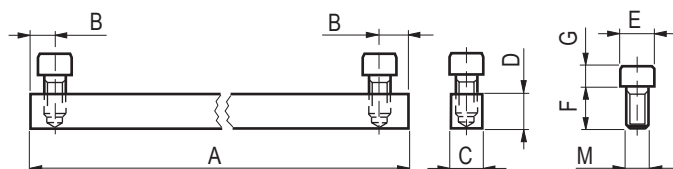
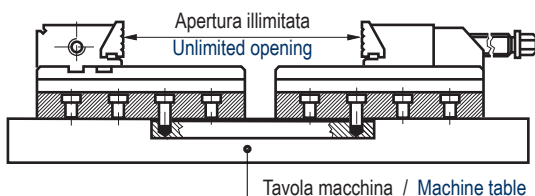
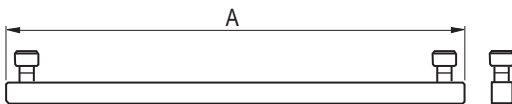


ACCESSORI

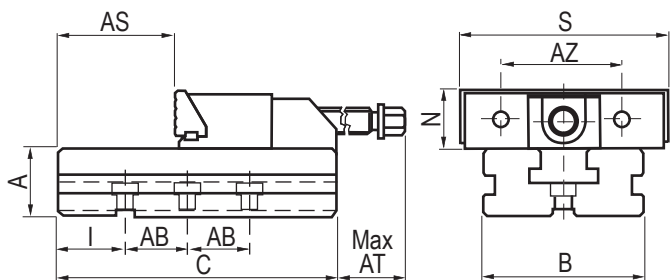
ACCESSORIES

Tipo (grandezza) / Type (size)	1	2	3	4	5	6
Art. 358 Barra di tensione / Tension bar						
A	320	320	400	400	500	500
B	11	11	18	18	20	20
C	10	10	15	15	20	20
D	20	20	25	25	25	25
M	M6	M8	M12	M12	M16	M16
E	9	12	18	18	24	24
F	15	15	20	20	30	30
G	6	8	12	12	16	16
kg	0.5	0.5	1.2	1.2	2	2
Cod.	3.35.81000	3.35.82000	3.35.83000	3.35.84000	3.35.85000	3.35.86000
€	28	28	31	31	36	36

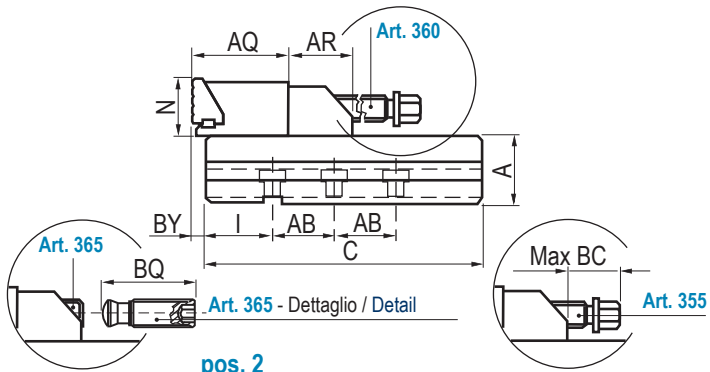
Accessori per Art. 51 e 102
 A richiesta altre larghezze senza variazione di prezzo
 Accessories for Art. 51 and 102
 Other widths available on request without price change



Art. 102

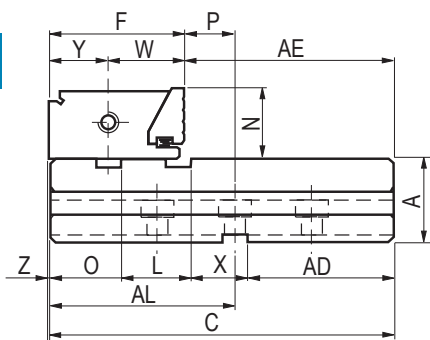


pos. 1

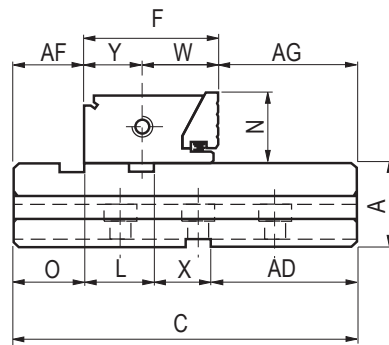


pos. 2

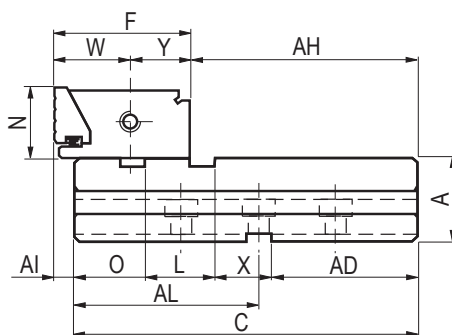
Art. 103



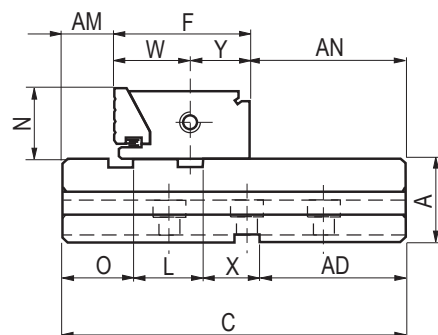
pos. 1



pos. 2

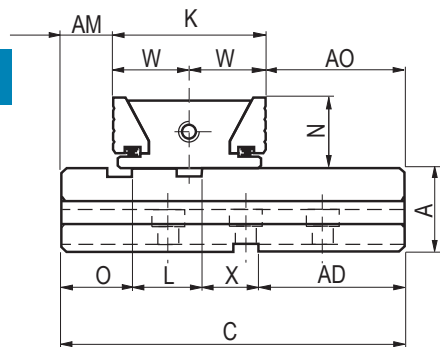


pos. 3

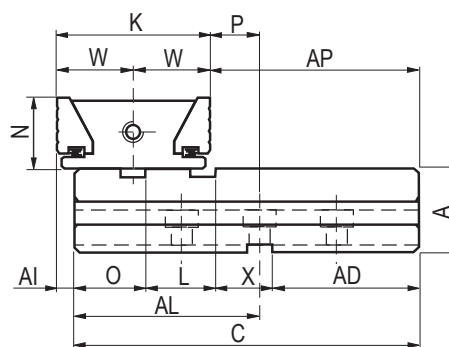


pos. 4

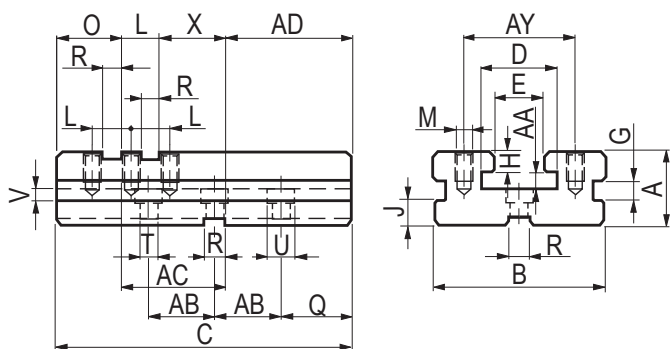
Art. 104



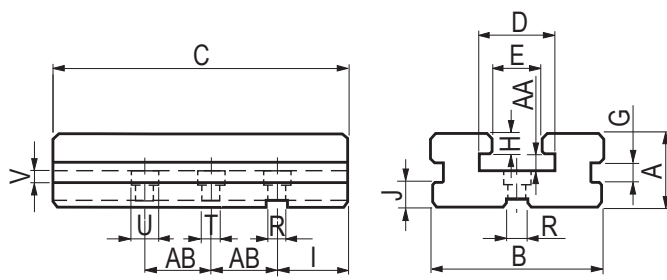
pos. 1



pos. 2



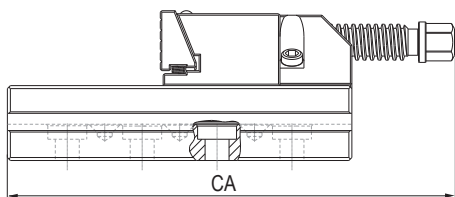
Art. 44



Art. 51

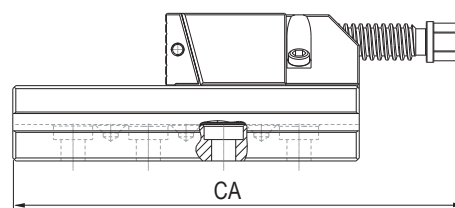
Art. 102A

pos. 1



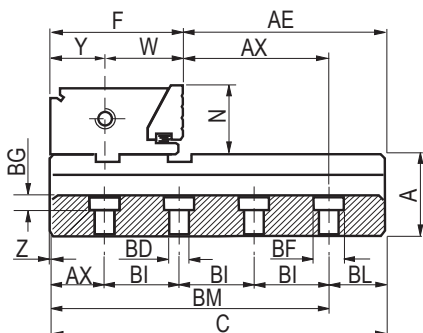
Art. 102Ai

pos. 2

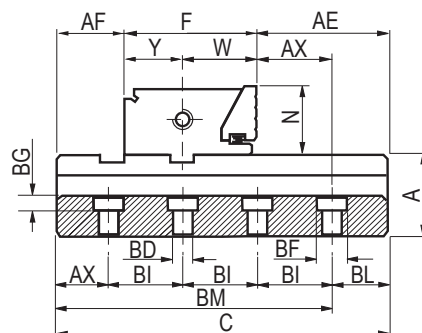


Art. 103A

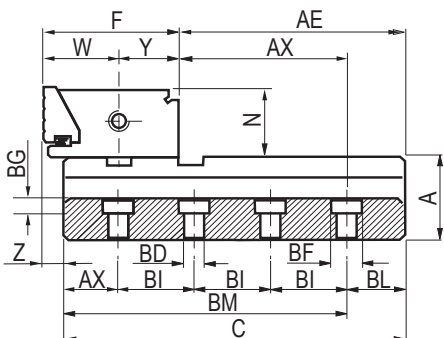
pos. 1



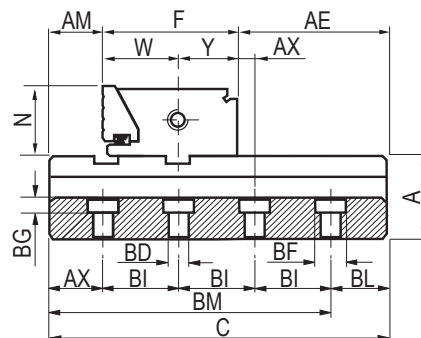
pos. 2



pos. 3

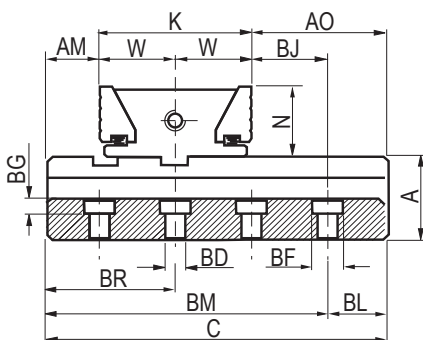


pos. 4

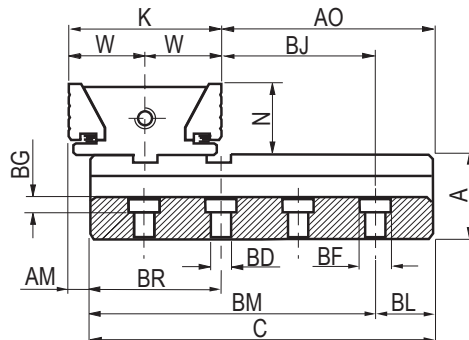


Art. 104A

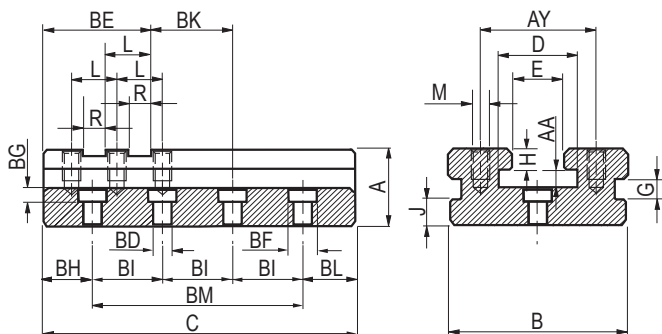
pos. 1



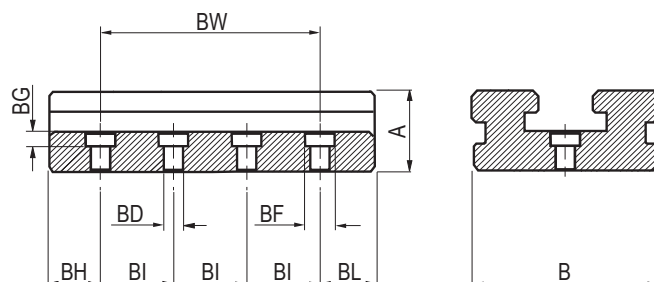
pos. 2



Art. 44A



Art. 51A



Tipo (grandezza) morsa / Vise (type) size

mm	1	2	3	4	5	6	Tolleranza Tolerance
A	35	40	50	58	70	78	- 0.02
B	75	95	125	145	170	195	- 0.02
C	140	160	230	240	300	350	
D	31	41	57	70	80	90	
E	21	28	41	51	61	71	+ 0.02
F	77.9	77.9	89.4	96.9	113.4	120.4	- 0.04
G	9.5	9.5	11.5	11.5	17.5	17.5	
H	10	10	13	15	20	20	- 0.02
I	31	41	40	57.5	31	67	
J	15	15	20	20	26	26	
K	84.8	84.8	101.8	101.8	132.8	146.8	- 0.04
L	32	32	36	36	44	44	- 0.02
M	M10	M12	M14	M16	M20	M20	
N	30	40	50	60	65	80	± 0.02
O	43	43	46	48	53	53	
P	33.6	33.6	33.6	33.6	33.6	33.6	± 0.02
Q	29	49	157.5	61	55	98	
R	16	16	16	16	16	16	H7
S	100	125	150	175	200	300	
T	6.5	8.5	13	13	17	17	
U	10.5	13.5	19	19	26	26	
V	4.5	5.5	8.5	8.5	17	17	
W	42.4	42.4	50.9	55.4	66.4	73.4	± 0.02
X	44	44	48.5	53	56	63	± 0.02
Y	35.5	35.5	35.5	41.5	47	47	± 0.02
Z	0.5	0.5	0.5	1.5	2	2	
AA	10	10	12	18	18	18	+ 0.04
AB	40	40	50	50	100	100	
AC	76	76	84.5	89	100	107	- 0.02
AD	21	41	99.5	103	147	190	
AE	62.6	82.6	141.6	144.6	188.6	231.6	
AF	31.5	31.5	35.5	35.5	42	42	
AG	30.6	50.6	105.1	108.6	144.6	187.6	
AH	69.5	89.5	153.5	158.5	208	258	
AI	7.4	7.4	12.9	15.4	21.4	28.4	
AJ	36	36	40.5	45	48	55	± 0.1
AK	80	80	120	120	160	240	± 0.01
	3 x Ø12	3 x Ø12	4 x Ø12	4 x Ø12	3 x Ø12	4 x Ø12	
AL	111	111	122.5	129	145	152	
AM	24.6	24.6	23.6	20.6	22.6	15.6	
AN	37.5	57.5	117.5	122.5	164	214	
AO	30.6	50.6	105.1	108.6	144.6	187.6	
AP	62.6	82.6	141.6	144.6	188.6	231.6	
AQ	50	60	80	90	100	120	
AR	32	51	48	68	78	94	
AS	28	49	102	82	122	136	
AT	55	68	82	62	92	70	
AU	45	38	47	27	52	45	

Tipo (grandezza) morsa / Vise (type) size

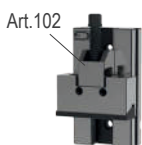
mm	1	2	3	4	5	6	Tolleranza Tolerance
AV	29	49	107.5	111	155	198	
AW	111	111	122.5	129	145	152	
AX	33.6	33.6	33.6	33.6	33.6	33.6	± 0.02
AY	50	62	88	100	120	133	
AZ	62	80	90	116	138	184	
BA							
BB	20	32	50	50	76	90	
BC	45	38	47	32	52	55	
BD	16	16	16	16	16	16	F7
BE	75	75	82	84	97	97	
BF	20.5	25	25	25	25	25	
BG	8	8	10	10	10	10	
BH	36	21	40	32.5	31	67	
BI	50	50	50	50	50	50	± 0.01
BJ	33.6	33.6	33.6	33.6	33.6	33.6	± 0.02
BK	36	36	40.5	45	48	55	± 0.01
BL	29	39	40	57.5	69	83	
BM	111	121	190	182.5	231	267	
BN	320	320	400	400	500	500	
BO	11	11	18	18	20	20	
BP	24.6	24.6	23.1	20.6	22.6	15.6	
BQ	35	35	38	40	45	45	
BR	67	67	74	76	89	89	
BS	12	12	12	12	12	12	F7
BT	20	20	20	20	20	20	
BU	8	8	8	8	8	8	
BV	31	31	42.5	49	65	72	
BW	100	100	150	150	200	200	± 0.01
	3 x Ø16	3 x Ø16	4 x Ø16	4 x Ø16	3 x Ø16	3 x Ø16	
BX	10	10	15	15	20	20	
BY	10	10	15	20	25	30	
BZ	40	40	40	40	40	40	± 0.01
CA	195	228	312	302	392	420	
CB							
CC	20	20	25	25	25	25	
CD	M6	M8	M12	M12	M16	M16	
CE	9	12	18	18	24	24	
CF	15	15	20	20	30	30	
CG	4	5	12	12	16	16	

PREDISPOSIZIONE e MONTAGGIO
ELEMENTI MODULARI su CUBI LAVORATI
 CUBE SET UP and MODULAR ELEMENTS
 MOUNTING on MACHINED TOMBSTONES

Art. 53C
Cubo lavorato
 Machined cube


Dim. A=550 / B=750 / H=850

Cod. 8.53.C00220

€ 9.745
Art. 102+103
Tipo di morsa
 Vise type

 Art. 102
 Type 5
€ 1.034

 Art. 103
 Type 5
€ 973

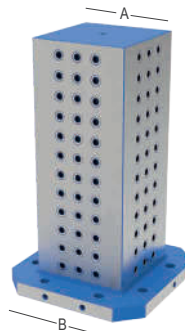
Cod. 2.10.25000

Cod. 2.10.35000


 Numero morsa x 4
 Vises number x 4

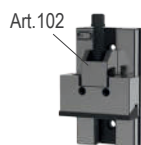
 Numero morsa x 4
 Vises number x 4

Tot. € 8.028
MONTAGGIO e ALLINEAMENTO ELEMENTI
MODULARI su CUBI a RETICOLO
 ALIGNEMENT and MODULAR ELEMENTS
 MOUNTING on GRID TOMBSTONES

Art. 53F
Cubo lavorato
 Machined cube


Dim. A=550 / B=750 / H=850

Cod. 8.53.F00220

€ 14.618
Art. 102+103
Tipo di morsa
 Vise type

 Art. 102
 Type 5
€ 1.034

 Art. 103
 Type 5
€ 973

Cod. 2.10.25000

Cod. 2.10.35000


 Numero morsa x 4
 Vises number x 4

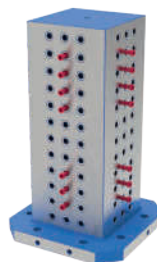
 Numero morsa x 4
 Vises number x 4

Tot. € 8.028
Predisposizione e montaggio completo
 Complete set up & mounting


Cod. MAN-040-STD

 Per modulo / each modular element € 220
Tot. € 1.760

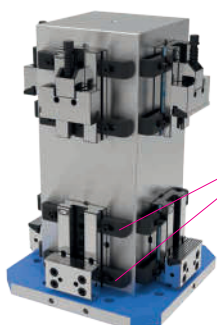
 Realizzazione di fori filettati o fori di fissaggio (da un minimo di 4 a un massimo di 6), fori calibrati o chiavette (da un minimo di 2 a un massimo di 3).
 Creation of threaded holes or screw holes (minimum 4 and maximum 6), calibrated holes or key-ways (minimum 2 and maximum 3).

Montaggio ed allineamento (standard)
 (Standard) Assembly and alignment


Cod. MAN-070-STD

 Per modulo / each modular element € 110
Tot. € 880

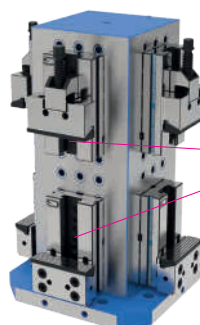
 Montaggio di una o più morse e/o attrezzature già predisposte tra loro comprensivo di controllo manuale. Il prezzo di listino comprende manodopera, viti, staffe e tasselli per singola morsa.
 Assembly of one or more vises or equipments already interfaced between themselves complete of manual check. The list price includes working hours, screws, holding clamps and key-nuts for only one vise.

Cubo con morsa
 Cube with vises


Art. 296

Tot. € 19.533

 TABULATO controllo DEA - MAN-100-STD : € 220 Extra
 PRINTOUT DEA control - MAN-100-STD : € 220 Extra

Cubo con morsa
 Cube with vises


Art. 83

Tot. € 23.526

 TABULATO controllo DEA - MAN-100-STD : € 220 Extra
 PRINTOUT DEA control - MAN-100-STD : € 220 Extra

Diagrammi di serraggio / Clamping diagrams

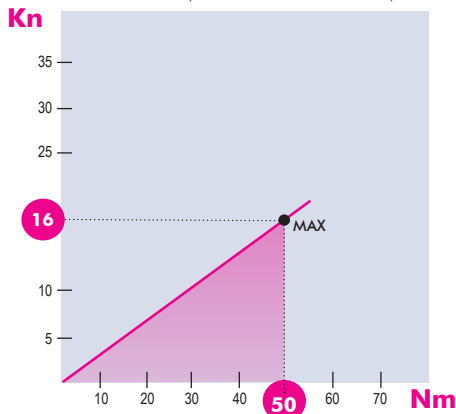
Modular elements

Diagrammi di serraggio meccanico con chiave dinamometrica Mechanical clamping diagrams with torque wrench

3

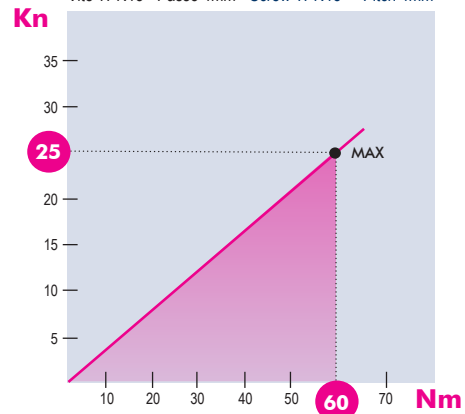
Morse tipo 1 Vises type 1

Vite M12 - Passo 1,75mm - Screw M12 - Pitch 1,75mm


Art. 357

Morse tipo 2 Vises type 2

Vite TPN18 - Passo 4mm - Screw TPN18 - Pitch 4mm

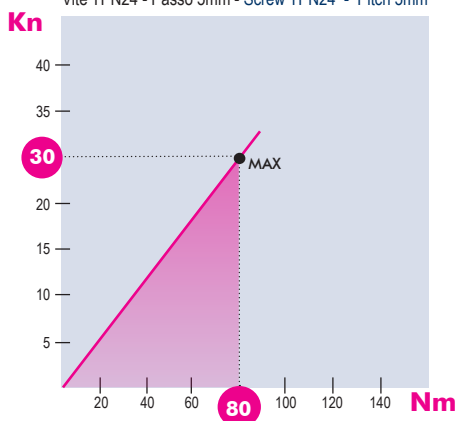


Gruppi di serraggio meccanici (Art. 258 e similari) / Mechanical clamping devices (Art. 258 and similar)

I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con le morse di varia grandezza (da 1 a 6), in funzione del momento applicato
 The following diagrams give the clamping force that can be obtained with each vise type (size 1 to 6) depending on the torque

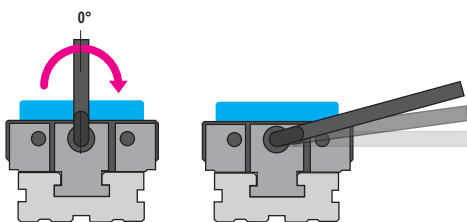
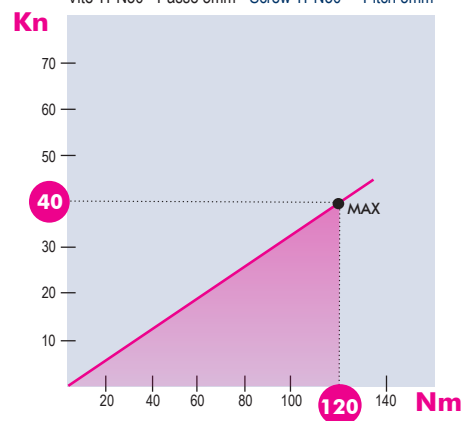
Morse tipo 3-4 Vises type 3-4

Vite TPN24 - Passo 5mm - Screw TPN24 - Pitch 5mm


Art. 357

Morse tipo 5-6 Vises type 5-6

Vite TPN30 - Passo 5mm - Screw TPN30 - Pitch 5mm



Serrare il pezzo agendo sulla vite di spinta con la chiave in dotazione senza utilizzare tubi o martelli.
 Attenzione: nel serraggio basta 1/4 di giro della chiave dal momento in cui la ganaschia tocca il particolare.

Clamp the workpiece turning clockwise the main spindle through the box wrench without using tubes or hammers.
 Attention: for the right clamping operation 1/4 of a turn of the box wrench is enough

Type (Size)	1	2	3	4	5	6
Kn	12	26	36	46	50	50

Valori indicativi Kn raggiunte a 90°
 Kn indicative values at 90°

NB: Alcuni fattori, come la lubrificazione, lo staffaggio, gli attriti ed altro, possono modificare i valori indicati fino a ± 10%. Per un corretto utilizzo non superare i valori indicati nel grafico
 Some factor as lubrication, clamping on the machine table, frictions and more can modify above values within a ± 10% range. For optimum operation do not exceed chart values.

CONTROLLO ALLINEAMENTO TRA CAVA TRASVERSALE E GANASCIA FISSA ALIGNMENT BETWEEN THE CROSS KEYWAY AND THE FIXED JAW PLATE



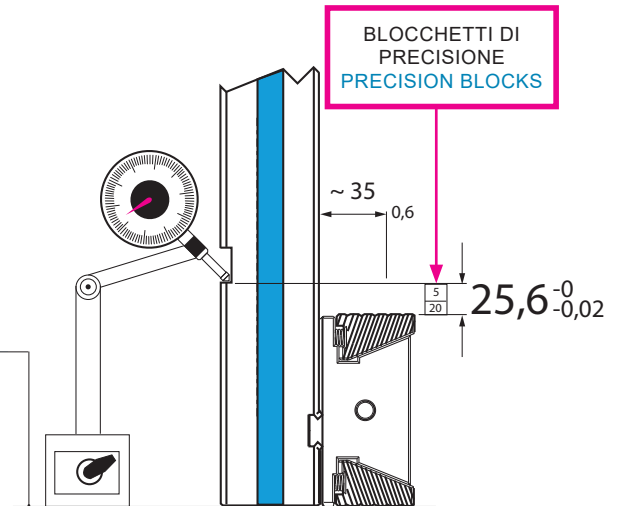
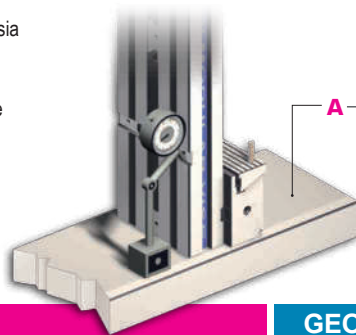
Libretto Istruzioni / Instruction Book

Scansiona il QR code e scarica le istruzioni complete

Scan the QR code to download the complete instructions

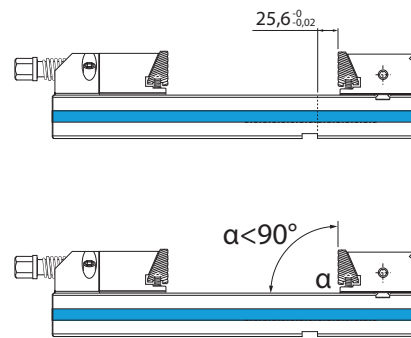
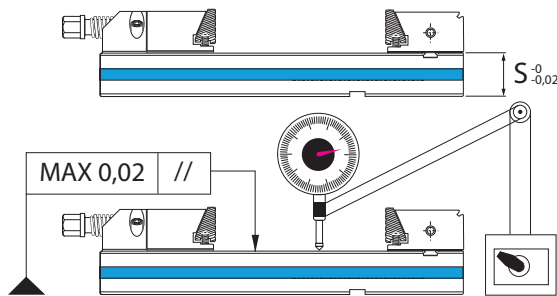
3 Posizionare la morsa verticalmente assicurandosi che sia perfettamente parallela al piano di appoggio **A** nei due sensi. Successivamente, con un comparatore centesimale, controllare il parallelismo del piano cava e della ganascia fissa.

Set the vise vertically ensuring that it is perfectly parallel to the table **A** in both sides. Then with an indicator check the parallelism of the keyway and its alignment with the fixed jaw plate.



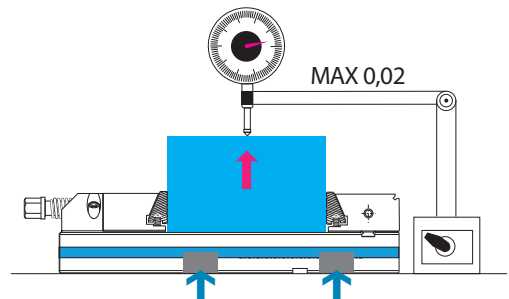
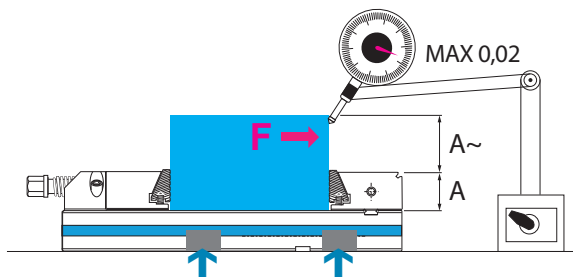
TOLLERANZE GEOMETRICHE

GEOMETRIC ACCURACIES



TOLLERANZE DINAMICHE

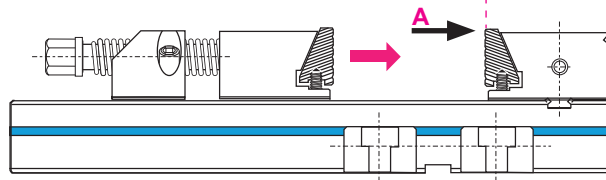
DYNAMIC ACCURACIES



Morsa ancorata con 2 coppie di staffe Art.296 / Vise clamped with n. 2 pairs of Art.296

Valori di flessione nel punto "A" in relazione alle forze di serraggio **PER MORSE TIPO 3**
Deflection values at "A" in relation to clamping powers **FOR TYPE 3 VISES**

1 kgf . m = 9.806 Nm



Kn	mm
60	0.1
50	0.07
40	0.05
30	0.03
20	0.02
10	0.01
5	0.004
2	0.002

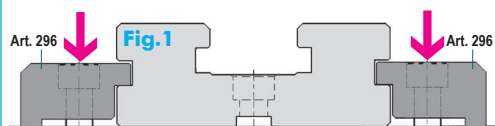
Il sistema consigliato per l'ancoraggio della morsa sulla tavola macchina è tramite STAFFE Art.296. (Fig.1)

E' possibile ancorare la morsa tramite viti centrali, ma in questo caso la quota X potrebbe flettere e compromettere lo scorrimento della ganascia mobile. (Fig.2)

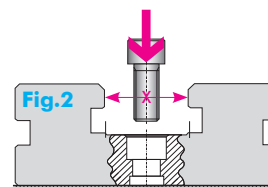
Nella tabella seguente sono riportati i valori di coppia massima applicabile mediante chiave dinamometrica

We recommend to fix the vises to the machine table using clamps Art. 296. (Fig. 1) The vise can be also fixed by means of central screws, but, this way, the X quota may suffer a bending and compromise the sliding of the movable jaws. (Fig. 2)

In the following table you can find the maximum torque values applicable through torque wrench.



Vite Screw	M8	M10	M12	M16
Torque Nm	40	80	140	345



Type	1	2	3	4	5	6
Torque Nm	18	40	140	140	250	250
Viti - Screws	2	2	3	4	4	4



Parallel plates, stack type, special jaws and spindle clamping devices

STD - StandardFLEX - XL

Parti di ricambio / Spare Parts

INDICE - INDEX

pages		pages		pages		pages		pages		pages	
Art.	4.	Art.	4.	Art.	4.	Art.	4.	Art.	4.	Art.	4.
1E	40	191	29	243K	16	301	29	385	28	396C	51
1F	42	192	25	243S	11	302	29	390	44	396D	51
105	31	192S	25	244	11	303	29	390/2	44	397	47
120	8	200	19	245	11	303A	30	390/3	44	397B	47
120A	20	201	19	246	11	304	29	390/4	44	397C	51
121	8	203	19	246G	14	305	29	390A/2	44	397D	51
123	8	204	19	246K	16	306	29	390A/3	44	398	47
123A	20	206	19	246T	11 - 12	306A	30	390A/4	44	398B	47
124	8	207	19	247	11	306B	30	390B	48	398C	51
126	8	208	19	247G	14	306C	30	390B/2	48	398D	51
126A	20	209	19	247K	16	307	29	390B/3	48	399	52
127	8	210	24	247T	11 - 12	308	29	390B/4	48	400	52
127A	20	211	24	248	9	309	29	390C/2	48	401	52
128	8	212	23	248G	14	310	27	390C/3	48	402	52
129	8	213	23	248K	16	311	27	390C/4	48	402/90	52
132	28	214	23	248S	9	312	27	391	45	403	52
133	28	215	23	249	9	313	27	391/2	45	404	52
134	28	217	24	249G	14	313A	26	391/3	45	405H	52
135	28	218	24	249K	16	313R	27	391/4	45	407	40 - 44
140	10	220F	15 - 17	249S	9	314	27	391A/2	45	407A	40 - 45
140G	13	224	23	250	9	315	30	391A/3	45	407B	40 - 46
140T	12	225	23	251	9	316	30	391A/4	45	407C	42 - 48
141	10	220 G01	15 - 17	252	9	317	26	391B	49	407D	42 - 49
141G	13	220 G02	15 - 17	253	9	318	30	391B/2	49	407E	42 - 50
141T	12	220 G11	15 - 17	257	37	319	30	391B/3	49	410	36
143	10	230	9	258	36	320	22	391B/4	49	414	27
143G	13	230B	21	260	28	321	30	391C/2	49	414R	27
143T	12	230C	21	270A	53	322	30	391C/3	49	420	31
144	10	230D	21	270B	53	323	30	391C/4	49	430	31
144G	13	230E	22	271	54	324	30	392	46	431	28
144T	12	230F	21	271D	54	325	35	392/2	46	440	28
146	10	230G	21	272	53	355	36	392/3	46	505	53
146G	13	230H	21	272A	53	356	36	392/4	46	569	54
146T	12	230K	21	282A	36	357	35	392A/2	46	570	28
147	10	230L	21	283	54	360	36	392A/3	46	570S	28
147G	13	230M	21	283A	54	361	36	392A/4	46	605 G1	22
147T	12	230S	9	284A	36	362	28	392B	50	605 G2	22
148	10	230SLD	21	285	54	365	31	392B/2	50	605 G3	22
148G	13	230SLE	21	286	37	366	31	392B/3	50	666I	35
149	10	231	9	287	34	367	31	392B/4	50	ID 03	53
149G	13	231S	9	290	37	368	31	392C/2	50	ID 04	53
152	24	232	9	291	35	370	35	392C/3	50	ID 05	53
160	18	233	9	292	37	370EM	35	392C/4	50	981	3
161	18	234	9	293	37	375	35	393	40 - 47	985	3
163	18	235	9	294A	37	376	35	393D	42 - 51		
164	18	242	11	295	37	377	35	394	40 - 47		
166	18	242G	14	296	33	380	28	394D	42 - 51		
167	18	242K	16	297	34	381	28	395	40 - 47		
168	18	242S	11	298	33	382	28	395D	42 - 51		
169	18	243	11	300	29	383	28	396	47		
190	29	243G	14	300A	30	384	28	396B	47		

VALIGETTA DI CAMPIONATURA STD / StdFLEX

SAMPLE KIT CASE STD / StdFLEX

Art. 981



Art. 1 - All'Interno - Inside:



Morsa / Vise Art. 1

Cod. 0.98.10000

 PRICE LIST € ~~2.052~~

 SPECIAL PRICE € **1.100**

Art. 985



Art. 1 - All'Interno - Inside:



Morsa / Vise Art. 1A

Cod. 0.98.50000

 PRICE LIST € ~~2.081~~

 SPECIAL PRICE € **1.100**

SIMBOLOGIA DATI TECNICI

TECHNICAL DATA ICONS

GANASCE JAWS							POSSIBILITÀ POSSIBILITY					
	Fissa Fixed	Mobile Movable	Intermedia Intermediate	Fissa con piastra singola Fixed with single plate	Fissa con piastra doppia Fixed with double plate	Ganasce sovrapponibili Stack Type Jaws		Montaggio sul fianco o in serie Side mounting or gang operation	Predisposizione Zero Point Zero Point ready	Cubi-morsa Vise tower	Divisore Automatico Automatic dividing head	Divisore Meccanico Mechanical dividing head
PIASTRE GANASCE JAW PLATES						PAGINE PAGES						
	Discendente Pull down	Piana Straight	Cambio rapido manuale Quick manual change	GRIP integrale integral GRIP	Inseri GRIP GRIP Inserts		Accessori & Ricambi Accessories & Spare Parts	Istruzioni corretto utilizzo Instruction for a proper use	Diagrammi forze di serraggio Clamping force diagrams	Sistema Idraulico Hydraulic System		

OPZIONI LAVORAZIONI EXTRA

OPTIONS FOR EXTRA MACHINING

Nei codici, **STD** si riferisce agli articoli dei gruppi 1, 2 e 3.
 In codes, **STD** refers to articles in groups 1, 2 and 3.

Lavorazione extra Extra machining	Cod.	PRICE LIST €	Lavorazione extra Extra machining	Cod.	PRICE LIST €
AGGIUNTA di un foro calibrato ADDITION of a calibrated hole	MAN-010-STD	110	MONTAGGIO SEMPLICE SIMPLE ASSEMBLY	MAN-060-STD	-
AGGIUNTA di una chiave calibrata ADDITION of a calibrated key-way	MAN-020-STD	110	MONTAGGIO ed ALLINEAMENTO (Standard) (Standard) ASSEMBLY and ALIGNMENT	MAN-070-STD	110
PREDISPOSIZIONE SEMPLICE SIMPLE SET UP	MAN-030-STD	110	MONTAGGIO VERTICALE COMPLETE VERTICAL ASSEMBLY	MAN-080-STD	165
PREDISPOSIZIONE & MONTAGGIO COMPLETO COMPLETE SET UP & MOUNTING	MAN-040-STD	220	ALLINEAMENTO e CONTROLLO tramite DEA ALIGNMENT and CONTROL by DEA \ CMM	MAN-090-STD	440
MONTAGGIO PARZIALE PARTIAL ASSEMBLY	MAN-050-STD	110	TABULATO controllo DEA PRINTOUT DEA control	MAN-100-STD	220

Parti di ricambio / Spare parts

STD / StdFLEX / XL

Un'ampia scelta di componenti ed accessori modulari !

Wide range of components and modular accessories !

USURA INESISTENTE / NO WEAR

Grazie all'accurata scelta dei materiali impiegati ed allo studio dimensionale computerizzato dei componenti. Costruzione completamente in speciali leghe di acciaio ad alta resistenza, normalizzato, cementato e temprato con durezza 58 ±2 HRC. Tutto ciò al fine di conferire massima rigidità, elevate prestazioni e usura inesistente. A riprova di tutto ciò assicuriamo **5 ANNI DI GARANZIA** su tutto il programma morse e organi meccanici in genere.

Thanks to the manufacturing with only the most suitable materials and to the structure of the vise components (developed using computer customised softwares and the experience gained during many years spent working on the specific field). High alloyed quality resistance steel, case hardened HRC 58 ±2, is used in manufacturing all the Gerardi vises and accessories in order to give maximum rigidity, high performances and no wear. As evidence we give **5 YEARS WARRANTY** on all the vises and mechanical components.

MODULARITÀ / MODULARITY

Tutte le morse ed accessori sono elementi componibili, intercambiabili e perfettamente allineabili fra loro e con i quali è possibile ottenere differenti soluzioni di bloccaggio. Secondo tale principio l'unico elemento che differenzia le attrezzature con identica larghezza di presa è la base (la cui lunghezza determina la massima apertura della morsa), mentre gli altri componenti sono identici. Mediante l'aggiunta o semplice sostituzione di alcuni particolari si può variare la tipologia di bloccaggio secondo le proprie esigenze utilizzando la stessa attrezzatura acquistata in un primo momento (bloccaggi singoli, con base girevole, doppi, verticali, di pezzi piani, tondi, piatti e grezzi, manuali, idraulici o pneumatici).

All vises and accessories are modular and components of all our vises will interchange with perfect alignment to provide different workholding solutions. With this basic principle the only difference between fixtures with the same width of clamping is the base (whose length determines the maximum opening of the vise), while the rest of components have same dimensions. Through the simple addition or substitution of some particulars You can change the type of clamping as Your needs require using the same fixture purchased before (single clamping, swivel base, double, vertical, smooth or round or flat or rough workpieces, manual, hydraulic or pneumatic).

DESIGN COMPATTO / SPACE SAVING DESIGN

La semplicità nonché la compattezza costruttiva consentono un'apertura notevole rispetto all'ingombro totale dell'attrezzatura. Inoltre lo stesso peso (solo 25 kg per una morsa da 150 mm di larghezza ganasce) è tale da consentire un facile trasferimento da una macchina all'altra.

The space saving design and solid construction allow a maximum blocking ratio to total overall dimension of the vise. Furthermore the weight (only 25 kg for a 150 mm jaw width vise) allows a simple moving from one machine to another.

SERRAGGI RAPIDI / QUICK CLAMPING

Grazie allo scorrimento del gruppo di serraggio nella guida della base (a cremagliera) fino in prossimità del pezzo da lavorare dove si adatterà automaticamente alla nicchia più vicina. L'operazione di serraggio si conclude agendo sulla vite di bloccaggio. Oltre a quello manuale meccanico, sono disponibili 4 ulteriori sistemi di serraggio intercambiabili e indipendenti: 1 - Idraulici / 2 - Pneumatici / 3 - Idraulici manuali / 4 - Idraulici elettrici. L'operazione è in termini di secondi.

Thanks to the clamping device sliding in the vise base slide (compact rack type) till the proximity of the workpiece. The clamping is completed with the main screw. Besides the manual mechanic system, 4 further interchangeable and independent clamping systems are available: 1- Hydraulic / 2- Pneumatic / 3- Manual hydraulic / 4- Electrical hydraulic. The change needs only few seconds.



Art.131 / 138 / 150

Ganasce Sovrapponibili

Stack type jaws



Art.210

Ganasce mobili guidate monoblocco per pezzi tondi

Solid guided movable jaws for round workpieces



Art.132 / 133

Prolunga per ganasce mobili e fisse

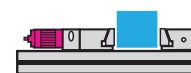
Extension for movable and fixed jaws



Art.212

Ganascia mobile intermedia con doppio gradino

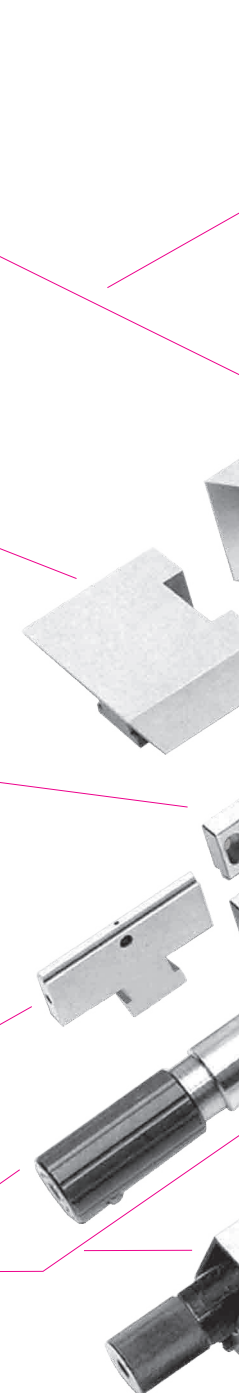
Intermediate movable jaws with double step



Art.257 / 258 / 271

Gruppi di serraggio

Spindle clamping devices



Sicuramente uno dei punti di forza del sistema modulare GERARDI consiste nell'ampissima scelta di componentistica ed accessori nonché nel continuo investimento e sviluppo nei più avanzati concetti e soluzioni originali. Il programma che viene presentato nelle pagine seguenti fa parte di un sistema modulare di bloccaggio fra i più ampi e completi a livello mondiale che permette realmente di trasformare in standard ciò che sembrerebbe essere speciale (oltre 1000 articoli moltiplicati per 6 grandezze diverse). Il segreto di tutto ciò sta proprio nella modularità del sistema che consente (con l'aggiunta di alcuni componenti) una più ampia gamma di impieghi.

One of the biggest point of strength of GERARDI modular system lies in the broadest assortment program of components and accessories and also in the continuous investment and development of the most advanced concepts and original solutions. The range of items shown in the following pages is part of a modular workholding system among the widest and complete in the world. So, any holding and clamping issue You ever have, You can solve it with Gerardi standard modular products. The secret lies just in the modularity of the system which allows (choosing different components) a wider range of solutions.



SCAN IT TO SEE



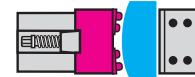
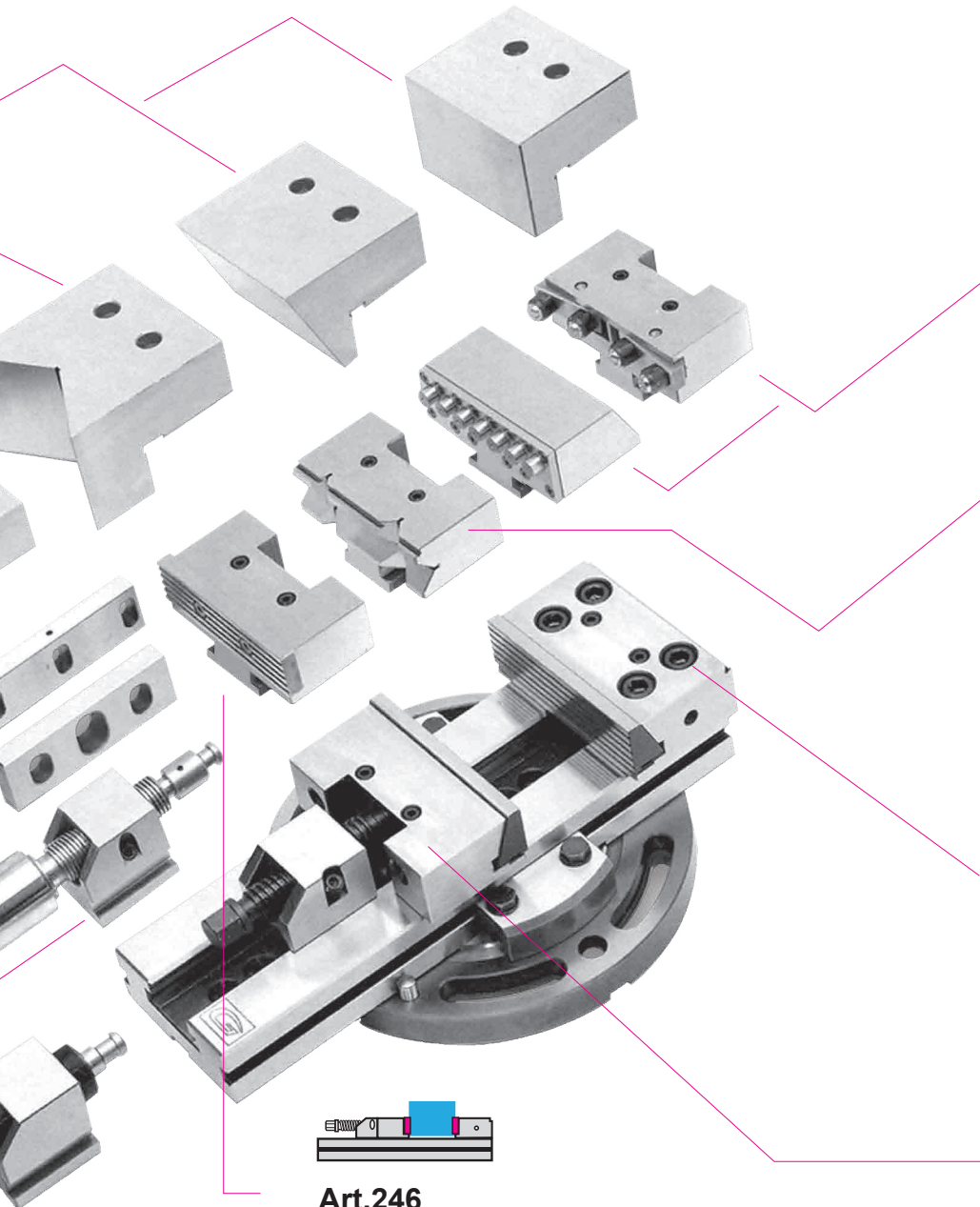
THE WEB PAGE



*Parallele, ganasce sovrapponibili,
speciali e gruppi di serraggio
intercambiabili*

*Parallel plates, stack type
& special jaws and
interchangeable clamping devices*

4



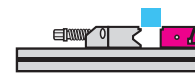
Art.190 / 188

Ganasce mobili guidate monoblocco
Solid guided movable jaws



Art.217

Ganasce mobili guidate monoblocco prismatiche
(per serraggio pezzi piatti e tondi)
Solid guided movable prismatic jaws (for plates & round workpieces clamping)



Art.120

Le ganasce fisse monoblocco consentono, una volta ruotate di 180°, il perfetto accoppiamento al gradino della ganascia prismatica mobile (Art. 217) ordinabile separatamente.

The solid standard fixed jaws with 5x5 mm back steps are matchable, if turned of 180°, to the prismatic movable jaw (Art.217) to be ordered separately.



Art.127

Ganascia mobili guidate monoblocco costruite con un angolo di spinta verso il basso.

Guided movable jaws built in one solid body with a pull down angle



Art.246

Ganasce mobili guidate monoblocco con piastre piane
Solid guided movable jaw with straight plates

Parti di ricambio / Spare parts

Standard / StdFLEX / XL

Piastre ganasce discendenti intercambiabili manualmente

Pull down jaws plates interchangeable by hand

4

Art. 242G
Art. 246G
Pagina / Page 4.14
Larghezza Normale e Ridotta
Normal & Narrow Width

Art. 210
Pagina
Page 4.24

Art. 160
Pagina
Page 4.18

Art. 192
Pagina
Page 4.25

Art. 200
Pagina
Page 4.19

Art. 212
Pagina
Page 4.23

Art. 217
Pagina
Page 4.24

Art. 313
Art. 314
Pagina / Page 4.27
Normali e angolari
Normal & angular

PIASTRE GANASCE COMPATIBILI SOLO CON MORSE STDFLEX JAW PLATES COMPATIBLE ONLY WITH STDFLEX VISES



Art. 230SLD
Pagina
Page 4.21

Art. 230B
Pagina
Page 4.21

Art. 230C
Pagina
Page 4.21

Art. 230D
Pagina
Page 4.21

Art. 230E
Pagina
Page 4.21

Art. 230F
Pagina
Page 4.21

Art. 230G
Pagina
Page 4.21

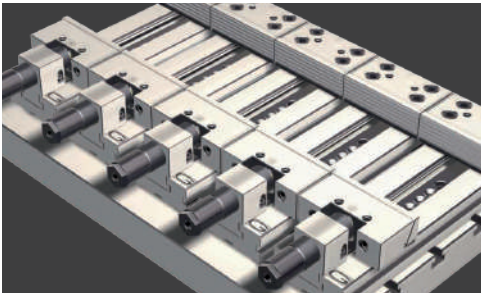
Art. 230H
Pagina
Page 4.21

Soluzioni personalizzate / Customized solutions

Standard / StdFLEX / XL

Soluzioni personalizzate a tutti i vostri problemi di serraggio

Customized solutions for all your clamping problems

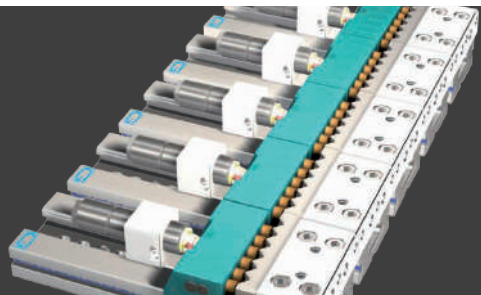


Serraggi idraulici

Hydraulic clamping

Morse Modulari di Precisione accoppiabili ed allineabili per serraggi multipli idraulici

Precision Modular vises matchable for gang operations and hydraulic clamping

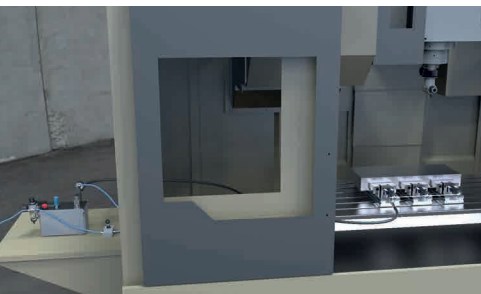


Serraggi multipli

Multiple clamping

Morse Modulari di Precisione accoppiabili ed allineabili per serraggi multipli idraulici con ganasce speciali oleodinamiche interfacciate a piastre ganasce con inserti prismatici

Matchable and alignable precision modular vises for multiple hydraulic clamping through special hydraulic jaws interfaced to prismatic inserts jaw plates.

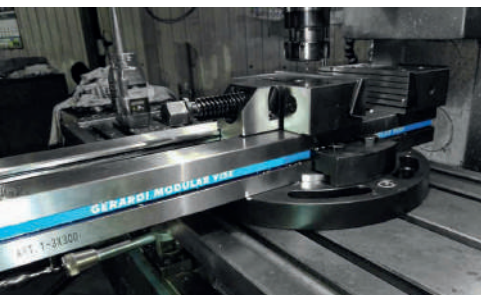


Morse StandardMatic

StandardMatic vises

Morse StandardMatic montate in serie su centro di lavoro verticale

StandardMatic vises series mounted on vertical machining centres



Art.2

Art.2

Morse Standard Art.1 montate con base girevole graduata su centro di lavoro verticale, per una maggiore versatilità su 360°

Standard vise Art.1 mounted with graduated swivel base on vertical machining centre for a greatest versatility 360°



Ganasce con inserti Grip

Insert Grip jaw plate

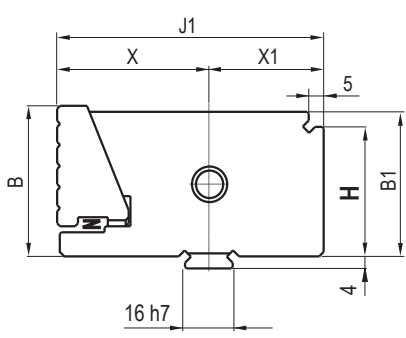
Morsa Standard con piastre ganasce a gradino con inserti Grip per un serraggio più efficace

Standard vise equipped with insert grip step jaw plate for more effective workpiece clamping

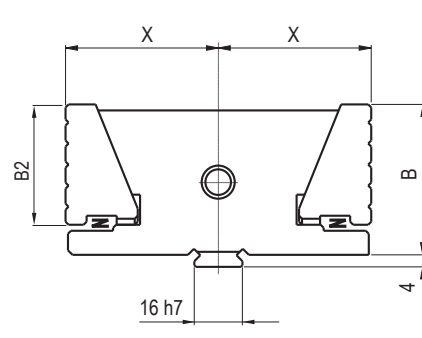
GANASCE STANDARD / STANDARD JAWS

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 120 Ganascia fissa. Larghezza normale (W) - (W3) Fixed jaw. Normal width (W) - (W3)						
	Cod. 2.12.01000	2.12.02000	2.12.03000	2.12.04000	2.12.05000	2.12.06000
	€ 160	203	243	285	405	623
Art. 121 Ganascia fissa. Larghezza ridotta rettificata (W2) - (W1) Fixed jaw. Narrow width ground (W2) - (W1)						
	Cod. 2.12.11000	2.12.12000	2.12.13000	2.12.14000	2.12.15000	2.12.16000
	€ 206	261	314	369	526	810
Art. 123 Ganascia fissa doppia. Larghezza normale (W) - (W3) Double fixed jaw. Normal width (W) - (W3)						
	Cod. 2.12.31000	2.12.32000	2.12.33000	2.12.34000	2.12.35000	2.12.36000
	€ 215	297	359	422	623	932
Art. 124 Ganascia fissa doppia. Larghezza ridotta rettificata (W2) - (W1) Double fixed jaw. Narrow width ground (W2) - (W1)						
	Cod. 2.12.41000	2.12.42000	2.12.43000	2.12.44000	2.12.45000	2.12.46000
	€ 276	384	467	546	810	1.210
Art. 127 Ganascia mobile monoblocco guidata. Larghezza normale (W) - (W3) Guided movable solid jaw. Normal width (W) - (W3)						
	Cod. 2.12.71000	2.12.72000	2.12.73000	2.12.74000	2.12.75000	2.12.76000
	€ 160	203	243	285	405	623
Art. 129 Ganascia mobile monoblocco guidata. Larghezza ridotta (W2) - (W1) Guided movable solid jaw. Narrow width (W2) - (W1)						
	Cod. 2.12.91000	2.12.92000	2.12.93000	2.12.94000	2.12.95000	2.12.96000
	€ 160	203	243	285	405	623
Art. 126 Ganascia mobile oscillante . Larghezza normale (W) - (W3) Floating movable jaw. Normal width (W) - (W3)						
	Cod. 2.12.61000	2.12.62000	2.12.63000	2.12.64000	2.12.65000	2.12.66000
	€ 160	203	243	285	405	623
Art. 128 Ganascia mobile oscillante . Larghezza ridotta (W2) - (W1) Floating movable jaw. Narrow width (W2) - (W1)						
	Cod. 2.12.81000	2.12.82000	2.12.83000	2.12.84000	2.12.85000	2.12.86000
	€ 160	203	243	285	405	623

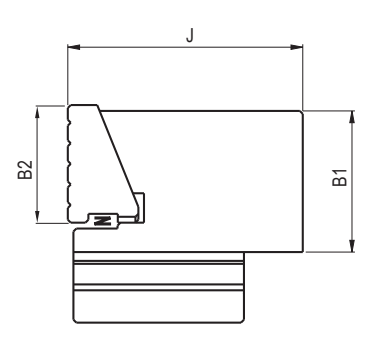
Art. 120



Art. 123



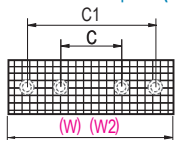
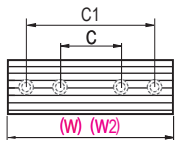
Art. 127



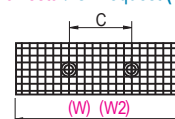
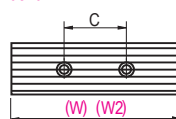
Tipo / Type	1	2	3	4	5	6
W = Jaw plate	100	125	150	175	200	300
W1 = Jaw body	75	95	125	145	170	195
W2 = Jaw plate	74	94	124	144	169	194
W3 = Jaw body	96	121	146	171	196	296
Y	21	28	41	51	61	71
Y - 1	20	27	40	50	60	70
B	30	40	50	60	65	80
B1	28	38	48	58	63	78
B2	24,5	32	39	43	53	63
* H	23	33	43	53	53	68
J	50	60	80	90	100	120
X	42,4	42,4	50,9	55,4	66,4	73,1
X1	35,5	35,5	38,5	41,5	47	47
J1	77,9	77,9	89,4	96,9	113,4	120,1

* DIMENSIONE DA ACCOPPIARE AD Art. 212 + 217 + 214 - DIMENSION TO BE MATCHED WITH Art. 212 + 217 + 214

RICAMBI PER GANASCE STANDARD / SPARES FOR STANDARD JAWS

Tipo (grandezza) morsa / Vise type (size)
1 2 3 4 5 6
PIASTRE TEMPRATE RIGATE O QUADRETTATE
HARDENED GROOVED OR SERRATED JAW PLATES
Standard
A richiesta / On request (EXTRA)

Art. 230
Art. 230S

 Per ganascia fissa e mobile - Art. 120, 126, 127 - **Larghezza normale (W)**
 For fixed and movable jaw - Art. 120, 126, 127 - **Normal width (W)**
Art. 231
Art. 231S

 Per ganascia fissa e mobile - Art. 121, 128, 129 - **Larghezza ridotta (W2)**
 For fixed and movable jaw - Art. 121, 128, 129 - **Narrow width (W2)**
Standard
A richiesta / On request (EXTRA)

Art. 248
Art. 248S

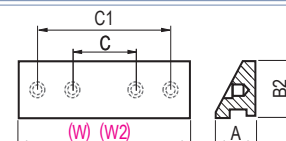
 Per ganascia fissa doppia Art. 123 - **Larghezza normale (W)**
 For double fixed jaw Art. 123 - **Normal width (W)**
Art. 249
Art. 249S

 Per ganascia fissa doppia Art. 124 - **Larghezza ridotta (W2)**
 For double fixed jaw Art. 124 - **Narrow width (W2)**
PIASTRE LISCE TEMPRATE
HARDENED SMOOTH JAW PLATES
Art. 232

 Per ganascia fissa e mobile - Art. 120, 127, 129 - **Larghezza normale (W)**
 For fixed and movable jaw - Art. 120, 127, 129 - **Normal width (W)**
Art. 233

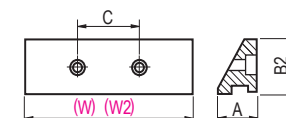
 Per ganascia fissa e mobile - Art. 121, 128, 129 - **Larghezza ridotta (W2)**
 For fixed and movable jaw - Art. 121, 128, 129 - **Narrow width (W2)**
Art. 250

 Per ganascia fissa doppia Art. 123 - **Larghezza normale (W)**
 For double fixed jaw Art. 123 - **Normal width (W)**
Art. 251

 Per ganascia fissa doppia Art. 124 - **Larghezza ridotta (W2)**
 For double fixed jaw Art. 124 - **Narrow width (W2)**


Cod. Art. 232	1.65.10100	1.65.20100	1.65.30100	1.65.40100	1.65.50100	1.65.60100
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Cod. Art. 233	1.65.11100	1.65.21100	1.65.31100	1.65.41100	1.65.51100	1.65.61100
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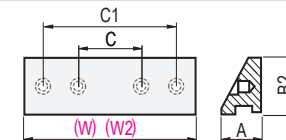


Cod. Art. 250	1.65.14100	1.65.24100	1.65.34100	1.65.44100	1.65.54100	1.65.64100
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Cod. Art. 251	1.65.15100	1.65.25100	1.65.35100	1.65.45100	1.65.55100	1.65.65100
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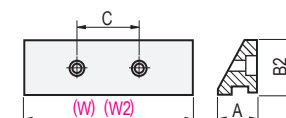
PIASTRE IN ACCIAIO LAVORABILE (DOLCE)
MACHINEABLE STEEL JAW PLATES (SOFT)
Art. 234

 Per ganascia fissa e mobile - Art. 120, 127, 129 - **Larghezza normale (W)**
 For fixed and movable jaw - Art. 120, 127, 129 - **Normal width (W)**
Art. 235

 Per ganascia fissa e mobile - Art. 121, 128, 129 - **Larghezza ridotta (W2)**
 For fixed and movable jaw - Art. 121, 128, 129 - **Narrow width (W2)**


Cod. Art. 234	1.65.10200	1.65.20200	1.65.30200	1.65.40200	1.65.50200	1.65.60200
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Cod. Art. 235	1.65.11200	1.65.21200	1.65.31200	1.65.41200	1.65.51200	1.65.61200
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Cod. Art. 252	1.65.14200	1.65.24200	1.65.34200	1.65.44200	1.65.54200	1.65.64200
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Cod. Art. 253	1.65.15200	1.65.25200	1.65.35200	1.65.45200	1.65.55200	1.65.65200
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Art. 252

 Per ganascia fissa doppia Art. 123 - **Larghezza normale (W)**
 For double fixed jaw Art. 123 - **Normal width (W)**
Art. 253

 Per ganascia fissa doppia Art. 124 - **Larghezza ridotta (W2)**
 For double fixed jaw Art. 124 - **Super narrow width (W2)**

€ cad / each	66	73	86	105	146	194
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Per qualsiasi piastra ganascia speciale, raddoppiare il prezzo / For special tailor made jaw plate double the price

W	100	125	150	175	200	300
W2	74	94	124	144	169	194
A	14	20	24	24	29	35
B2	24,5	32	39	43	53	63
C	20	32	50	50	76	90
C1	62	80	90	116	138	184

Cod. Art. 230	1.65.10000	1.65.20000	1.65.30000	1.65.40000	1.65.50000	1.65.60000
Cod. Art. 230S	4.23.0S100	4.23.0S200	4.23.0S300	4.23.0S400	4.23.0S500	4.23.0S600

Cod. Art. 231	1.65.11000	1.65.21000	1.65.31000	1.65.41000	1.65.51000	1.65.61000
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Cod. Art. 231S	4.23.1S100	4.23.1S200	4.23.1S300	4.23.1S400	4.23.1S500	4.23.1S600
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ATTENZIONE - ATTENTION:

IN FASE D'ORDINE VERIFICARE QUOTE C - C1 - CHECK DIMENSIONS C - C1 IN CASE OF ORDER

Cod. Art. 248	1.65.14000	1.65.24000	1.65.34000	1.65.44000	1.65.54000	1.65.64000
Cod. Art. 248S	4.24.8S100	4.24.8S200	4.24.8S300	4.24.8S400	4.24.8S500	4.24.8S600

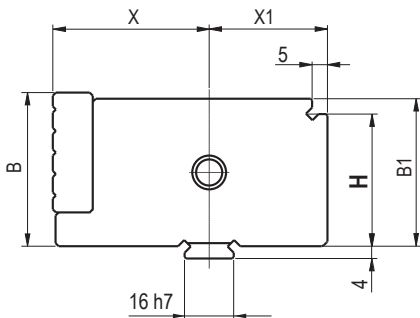
Cod. Art. 249	1.65.15000	1.65.25000	1.65.35000	1.65.45000	1.65.55000	1.65.65000
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Cod. Art. 249S	4.24.9S100	4.24.9S200	4.24.9S300	4.24.9S400	4.24.9S500	4.24.9S600
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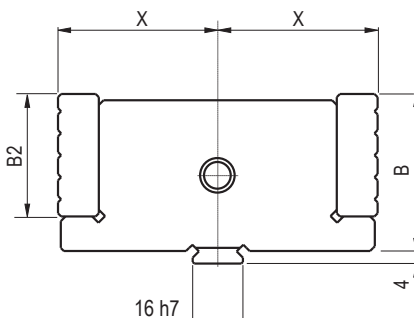
GANASCE CON PIASTRE PIANE / STRAIGHT PLATE JAWS

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 140 Ganascia fissa. Larghezza normale (W) - (W3) Fixed jaw. Normal width (W) - (W3)	Cod. 2.14.01000	2.14.02000	2.14.03000	2.14.04000	2.14.05000	2.14.06000
	€ 160	203	243	285	405	623
Art. 141 Ganascia fissa. Larghezza ridotta rettificata (W2) - (W1) Fixed jaw. Narrow width ground (W2) - (W1)	Cod. 2.14.11000	2.14.12000	2.14.13000	2.14.14000	2.14.15000	2.14.16000
	€ 206	261	314	369	526	810
Art. 143 Ganascia fissa doppia. Larghezza normale (W) - (W3) Double fixed jaw. Normal width (W) - (W3)	Cod. 2.14.31000	2.14.32000	2.14.33000	2.14.34000	2.14.35000	2.14.36000
	€ 215	297	359	422	623	932
Art. 144 Ganascia fissa doppia. Larghezza ridotta rettificata (W2) - (W1) Double fixed jaw. Narrow width ground (W2) - (W1)	Cod. 2.14.41000	2.14.42000	2.14.43000	2.14.44000	2.14.45000	2.14.46000
	€ 276	384	467	546	810	1.210
Art. 146 Ganascia mobile monoblocco guidata. Larghezza normale (W) - (W3) Guided movable solid jaw. Normal width (W) - (W3)	Cod. 2.14.61000	2.14.62000	2.14.63000	2.14.64000	2.14.65000	2.14.66000
	€ 160	203	243	285	405	623
Art. 147 Ganascia mobile monoblocco guidata. Larghezza ridotta (W2) - (W1) Guided movable solid jaw. Narrow width (W2) - (W1)	Cod. 2.14.71000	2.14.72000	2.14.73000	2.14.74000	2.14.75000	2.14.76000
	€ 160	203	243	285	405	623
Art. 148 Ganascia mobile monoblocco oscillante. Larghezza normale (W) - (W3) Floating movable solid jaw. Normal width (W) - (W3)	Cod. 2.14.81000	2.14.82000	2.14.83000	2.14.84000	2.14.85000	2.14.86000
	€ 160	203	243	285	405	623
Art. 149 Ganascia mobile monoblocco oscillante. Larghezza ridotta (W2) - (W1) Floating movable solid jaw. Narrow width (W2) - (W1)	Cod. 2.14.91000	2.14.92000	2.14.93000	2.14.94000	2.14.95000	2.14.96000
	€ 160	203	243	285	405	623

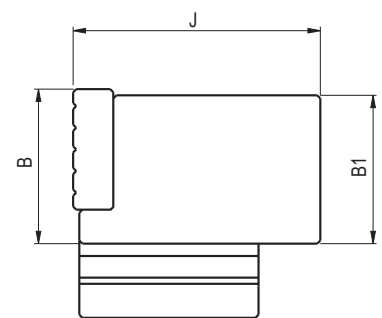
Art. 140



Art. 143



Art. 146



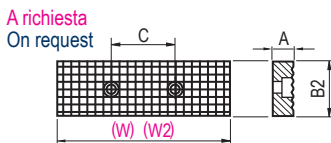
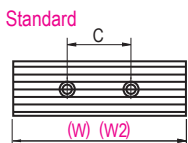
Tipo / Type	1	2	3	4	5	6
W = Jaw plate	100	125	150	175	200	300
W1 = Jaw body	75	95	125	145	170	195
W2 = Jaw plate	74	94	124	144	169	194
W3 = Jaw body	96	121	146	171	196	296
Y	21	28	41	51	61	71
Y1	20	27	40	50	60	70
B	30	40	50	60	65	80
B1	28	38	48	58	63	78
B2	24,5	32	40	43	48	63
* H	23	33	43	53	53	68
J	50	60	80	90	100	120
X	42,4	42,4	50,9	55,4	66,4	73,1
X1	35,5	35,5	38,5	41,5	47	47

* DIMENSIONE DA ACCOPPIARE AD Art. 212 + 217 + 214 - DIMENSION TO BE MATCHED WITH Art. 212 + 217 + 214

RICAMBI PER GANASCE CON PIASTRE PIANE / SPARES FOR STRAIGHT JAW PLATES

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
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PIASTRE PIANE TEMPERATE, RIGATE O QUADRETTATE
HARDENED GROOVED OR SERRATED STRAIGHT JAW PLATES

 Dotazione normale delle ganasce e delle morse complete
 Standard equipment on complete jaws and vises

Art. 242
Art. 242S

 Per ganascia fissa e mobile - Art. 140, 143, 146 - **Larghezza normale (W)**
 For fixed and movable jaw - Art. 140, 143, 146 - **Normal width (W)**
Art. 243
Art. 243S

 Per ganascia fissa e mobile - Art. 141, 144, 147 - **Larghezza ridotta (W2)**
 For fixed and movable jaw - Art. 141, 144, 147 - **Narrow width (W2)**

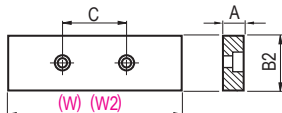
€ cad / each	66	73	86	105	146	194
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Per qualsiasi piastra ganascia speciale, raddoppiare il prezzo / For special tailor made jaw plate double the price

	100	125	150	175	200	300
W	100	125	150	175	200	300
W2	74	94	124	144	169	194
A	12	12	13	13	18	18
B2	24,5	32	40	43	48	56
C	25	32	50	50	76	90

Cod. Art. 242	1.65.16000	1.65.26000	1.65.36000	1.65.46000	1.65.56000	1.65.66000
Cod. Art. 242S	4.24.2S100	4.24.2S200	4.24.2S300	4.24.2S400	4.24.2S500	4.24.2S600

Cod. Art. 243	1.65.17000	1.65.27000	1.65.37000	1.65.47000	1.65.57000	1.65.67000
Cod. Art. 243S	4.24.3S100	4.24.3S200	4.24.3S300	4.24.3S400	4.24.3S500	4.24.3S600

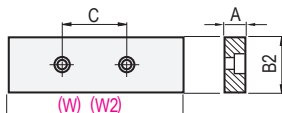
PIASTRE PIANE LISCE TEMPERATE
HARDENED SMOOTH STRAIGHT JAW PLATES

Art. 244

 Per ganascia fissa e mobile - Art. 140, 143, 146 - **Larghezza normale (W)**
 For fixed and movable jaw - Art. 140, 143, 146 - **Normal width (W)**
Art. 245

 Per ganascia fissa e mobile - Art. 141, 144, 147 - **Larghezza ridotta (W2)**
 For fixed and movable jaw - Art. 141, 144, 147 - **Narrow width (W2)**

Cod. Art. 244	4.24.41000	4.24.42000	4.24.43000	4.24.44000	4.24.45000	4.24.46000
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Cod. Art. 245	4.24.51000	4.24.52000	4.24.53000	4.24.54000	4.24.55000	4.24.56000
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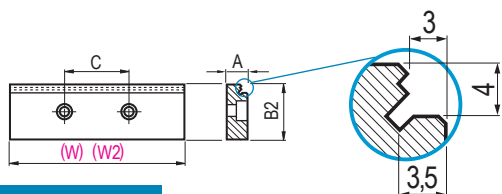
PIASTRE PIANE IN ACCIAIO LAVORABILE (DOLCE)
MACHINEABLE STEEL STRAIGHT JAW PLATES (SOFT HRC)

Art. 246

 Per ganascia fissa e mobile - Art. 140, 143, 146 - **Larghezza normale (W)**
 For fixed and movable jaw - Art. 140, 143, 146 - **Normal width (W)**
Art. 247

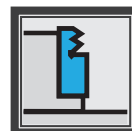
 Per ganascia fissa e mobile - Art. 141, 144, 147 - **Larghezza ridotta (W2)**
 For fixed and movable jaw - Art. 141, 144, 147 - **Narrow width (W2)**

Cod. Art. 246	1.65.16200	1.65.26200	1.65.36200	1.65.46200	1.65.56200	1.65.66200
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Cod. Art. 247	1.65.17200	1.65.27200	1.65.37200	1.65.47200	1.65.57200	1.65.67200
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PIASTRE PIANE TEMPERATE GRIP
HARDENED STRAIGHT JAW PLATES GRIP

Art. 246T

 Per ganascia fissa e mobile - Art. 140, 143, 146 - **Larghezza normale (W)**
 For fixed and movable jaw - Art. 140, 143, 146 - **Normal width (W)**
Art. 247T

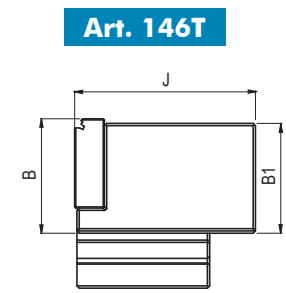
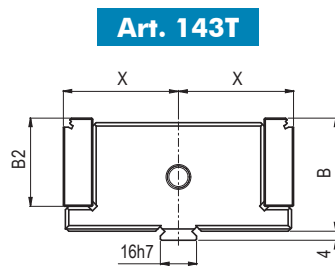
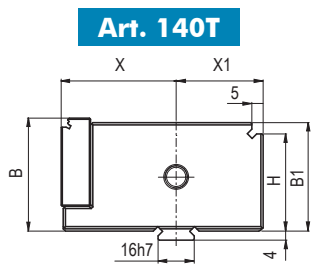
 Per ganascia fissa e mobile - Art. 141, 144, 147 - **Larghezza ridotta (W2)**
 For fixed and movable jaw - Art. 141, 144, 147 - **Narrow width (W2)**

PIASTRE GANASCE "GRIP" JAW PLATES
MINOR SUPERFICIE DI CONTATTO + PRESSIONE DI SERRAGGIO
LESS SURFACE CONTACT + CLAMPING PRESSURE

Cod. Art. 246T	4.24.6T100	4.24.6T200	4.24.6T300	4.24.6T400	4.24.6T500	4.24.6T600
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Cod. Art. 247T	4.24.7T100	4.24.7T200	4.24.7T300	4.24.7T400	4.24.7T500	4.24.7T600
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GANASCE CON PIASTRE PIANE GRIP / STRAIGHT PLATE GRIP JAWS

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 140T Ganascia fissa GRIP. Larghezza normale (W) - (W3) Fixed GRIP jaw. Normal width (W) - (W3)	Cod. 2.14.0T100 € 160	Cod. 2.14.0T200 € 203	Cod. 2.14.0T300 € 243	Cod. 2.14.0T400 € 285	Cod. 2.14.0T500 € 405	Cod. 2.14.0T600 € 623
Art. 141T Ganascia fissa GRIP. Larghezza ridotta rettificata (W2) - (W1) Fixed GRIP jaw. Narrow width ground (W2) - (W1)	Cod. 2.14.1T100 € 206	Cod. 2.14.1T200 € 261	Cod. 2.14.1T300 € 314	Cod. 2.14.1T400 € 369	Cod. 2.14.1T500 € 526	Cod. 2.14.1T600 € 810
Art. 143T Ganascia fissa doppia. Larghezza normale (W) - (W3) Double fixed jaw. Normal width (W) - (W3)	Cod. 2.14.3T100 € 215	Cod. 2.14.3T200 € 297	Cod. 2.14.3T300 € 359	Cod. 2.14.3T400 € 422	Cod. 2.14.3T500 € 623	Cod. 2.14.3T100 € 932
Art. 144T Ganascia fissa doppia. Larghezza ridotta rettificata (W2) - (W1) Double fixed jaw. Narrow width ground (W2) - (W1)	Cod. 2.14.4T100 € 276	Cod. 2.14.4T200 € 384	Cod. 2.14.4T300 € 467	Cod. 2.14.4T400 € 546	Cod. 2.14.4T500 € 810	Cod. 2.14.4T600 € 1.210
Art. 146T Ganascia mobile monoblocco guidata. Larghezza normale (W) - (W3) Guided movable solid jaw. Normal width (W) - (W3)	Cod. 2.14.6T100 € 160	Cod. 2.14.6T200 € 203	Cod. 2.14.6T300 € 243	Cod. 2.14.6T400 € 285	Cod. 2.14.6T500 € 405	Cod. 2.14.6T600 € 623
Art. 147T Ganascia mobile monoblocco guidata. Larghezza ridotta (W2) - (W1) Guided movable solid jaw. Narrow width (W2) - (W1)	Cod. 2.14.7T100 € 160	Cod. 2.14.7T200 € 203	Cod. 2.14.7T300 € 243	Cod. 2.14.7T400 € 285	Cod. 2.14.7T500 € 405	Cod. 2.14.7T600 € 623

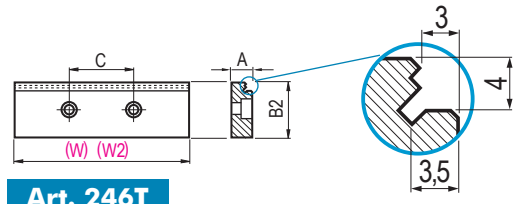


* DIMENSIONE DA ACCOPPIARE AD Art. 212 + 217 + 214 - DIMENSION TO BE MATCHED WITH Art. 212 + 217 + 214

Tipo / Type	1	2	3	4	5	6
W = Jaw plate	100	125	150	175	200	300
W1 = Jaw body	75	95	125	145	170	195
W2 = Jaw plate	74	94	124	144	169	194
W3 = Jaw body	96	121	146	171	196	296
Y	21	28	41	51	61	71
B	30	40	50	60	65	80
B1	28	38	48	58	63	78
B2	24,5	32	40	43	48	63
* H	23	33	43	53	53	68
J	50	60	80	90	100	120
X	42,4	42,4	50,9	55,4	66,4	73,1
X1	35,5	35,5	38,5	41,5	47	47

PIASTRE PIANE TEMPERATE GRIP
HARDENED STRAIGHT JAW PLATES GRIP

Fornibili a richiesta su ganasce e morse senza variazione di prezzo
 Available on request for complete jaws and vises without price change



Art. 246T

Per ganascia fissa e mobile - Art. 140, 143, 146 - **Larghezza normale (W)**
 For fixed and movable jaw - Art. 140, 143, 146 - **Normal width (W)**

Cod. Art. 246T	4.24.6T100	4.24.6T200	4.24.6T300	4.24.6T400	4.24.6T500	4.24.6T600
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Art. 247T

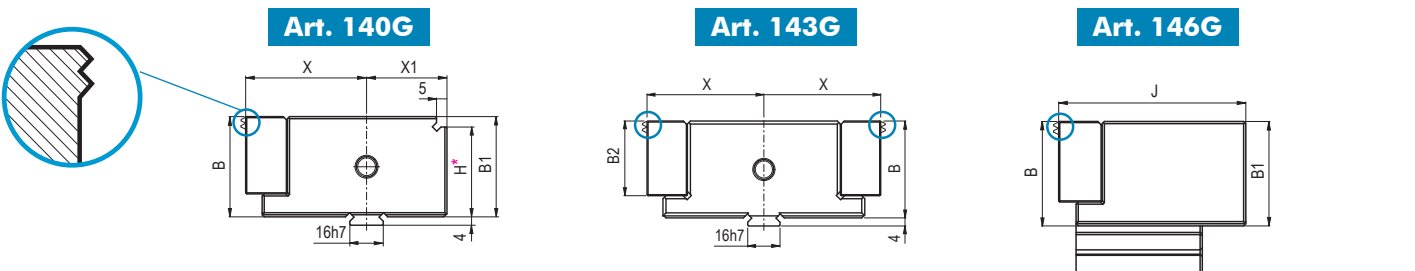
Per ganascia fissa e mobile - Art. 141, 144, 147 - **Larghezza ridotta (W2)**
 For fixed and movable jaw - Art. 141, 144, 147 - **Narrow width (W2)**

Cod. Art. 247T	4.24.7T100	4.24.7T200	4.24.7T300	4.24.7T400	4.24.7T500	4.24.7T600
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MINOR SUPERFICIE DI CONTATTO + PRESSIONE DI SERRAGGIO
LESS SURFACE CONTACT + CLAMPING PRESSURE

GANASCE CON PIASTRE CON INSERTI GRIP / STRAIGHT PLATE JAWS WITH GRIP INSERTS

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 140G Ganascia fissa completa di parallela magnetica. Larghezza normale (W) - (W3) Fixed jaw with magnetic parallel. Normal width (W) - (W3)	Cod. 2.14.0G100	2.14.0G200	2.14.0G300	2.14.0G400	2.14.0G500	2.14.0G600
	€ 233	282	352	397	556	816
Art. 141G Ganascia fissa completa di parallela magnetica. Larghezza ridotta rettificata (W2) - (W1) Fixed jaw complete with magnetic parallel. Narrow width ground (W2) - (W1)	Cod. 2.14.1G100	2.14.1G200	2.14.1G300	2.14.1G400	2.14.1G500	2.14.1G600
	€ 279	339	389	480	644	972
Art. 143G Ganascia fissa doppia completa di parallela magnetica. Larghezza normale (W) - (W3) Double fixed jaw complete with magnetic parallel. Normal width (W) - (W3)	Cod. 2.14.3G100	2.14.3G200	2.14.3G300	2.14.3G400	2.14.3G500	2.14.3G600
	€ 351	442	559	628	900	1.284
Art. 144G Ganascia fissa doppia completa di parallela magnetica. Larghezza ridotta rettificata (W2) - (W1) Double fixed jaw complete with magnetic parallel. Narrow width ground (W2) - (W1)	Cod. 2.14.4G100	2.14.4G200	2.14.4G300	2.14.4G400	2.14.4G500	2.14.4G600
	€ 411	531	608	751	1.032	1.508
Art. 146G Ganascia mobile monoblocco guidata completa di parallela magnetica. Larghezza normale (W) Guided movable solid jaw. Complete with magnetic parallel. Normal width (W)	Cod. 2.14.6G100	2.14.6G200	2.14.6G300	2.14.6G400	2.14.6G500	2.14.6G600
	€ 233	282	352	397	556	816
Art. 147G Ganascia mobile monoblocco guidata completa di parallela magnetica. Larghezza ridotta (W2) Guided movable solid jaw complete with magnetic parallel. Narrow width (W2)	Cod. 2.14.7G100	2.14.7G200	2.14.7G300	2.14.7G400	2.14.7G500	2.14.7G600
	€ 233	282	318	397	524	785
Art. 148G Ganascia mobile monoblocco oscillante completa di parallela magnetica. Larghezza normale (W) Floating movable solid jaw complete with magnetic parallel. Normal width (W)	Cod. 2.14.8G100	2.14.8G200	2.14.8G300	2.14.8G400	2.14.8G500	2.14.8G600
	€ 233	282	352	397	556	816
Art. 149G Ganascia mobile monoblocco oscillante completa di parallela magnetica. Larghezza ridotta (W2) Floating movable solid jaw complete with magnetic parallel. Narrow width (W2)	Cod. 2.14.9G100	2.14.9G200	2.14.9G300	2.14.9G400	2.14.9G500	2.14.9G600
	€ 233	282	318	397	524	785

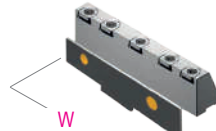


* DIMENSIONE DA ACCOPPIARE AD Art. 212 + 217 + 214 - DIMENSION TO BE MATCHED WITH Art. 212 + 217 + 214

Tipo / Type	1	2	3	4	5	6
W = Jaw plate	100	125	150	175	200	300
W1 = Jaw body	75	95	125	145	170	195
W2 = Jaw plate	74	94	124	144	169	194
W3 = Jaw body	96	121	146	171	196	296
Y	21	28	41	51	61	71
Y1	20	27	40	50	60	70
B	28	38	48	58	63	78
B1	28	38	48	58	63	78
B2	24,5	30	37	42	46	54
* H	23	33	43	53	53	68
J	58	68	87	97	102	122
X	50,4	50,4	57,9	62,4	68,4	75,1
X1	35,5	35,5	38,5	41,5	47	47

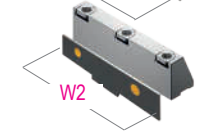
PIASTRE GANASCE CON INSERTI GRIP E PARALLELA MAGNETICA

Tipo (grandezza) morsa / Vise type (size)
Art. 242G

 Piastra Ganascia con Inserti GRIP. **Larghezza normale (W)**
 Jaw plate with GRIP insert. **Normal width (W)**


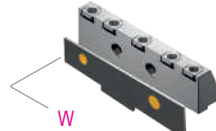
Cod.	1.24.2G100	1.24.2G200	1.24.2G300	1.24.2G400	1.24.2G500	1.24.2G600
€	139	150	194	217	297	387

Art. 243G

 Piastra Ganascia con Inserti GRIP. **Larghezza ridotta rettificata (W1)**
 Jaw plate with GRIP insert. **Narrow width ground (W1)**


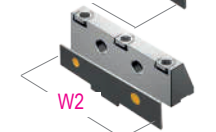
Cod.	1.24.3G100	1.24.3G200	1.24.3G300	1.24.3G400	1.24.3G500	1.24.3G600
€	139	150	161	217	264	356

Art. 248G

 Piastra Ganascia con Inserti GRIP
per ganascia fissa doppia. Larghezza normale (W)
 Jaw plate with GRIP insert for double fixed jaw. **Normal width (W)**


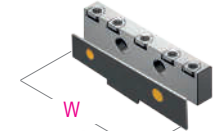
Cod.	1.24.8G100	1.24.8G200	1.24.8G300	1.24.8G400	1.24.8G500	1.24.8G600
€	139	150	194	217	297	387

Art. 249G

 Piastra Ganascia con Inserti GRIP
per ganascia fissa doppia. Larghezza ridotta rettificata (W1)
 Jaw plate with GRIP insert.
For double fixed jaw. Narrow width ground (W1)


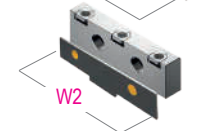
Cod.	1.24.9G100	1.24.9G200	1.24.9G300	1.24.9G400	1.24.9G500	1.24.9G600
€	139	150	161	217	264	356

Art. 246G

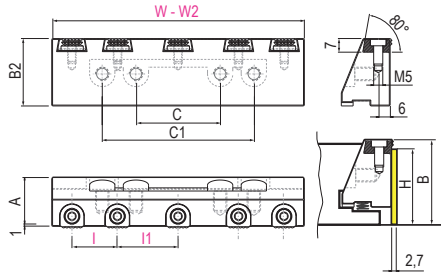
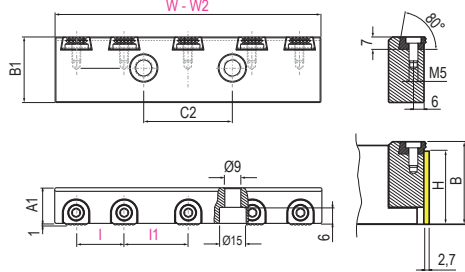
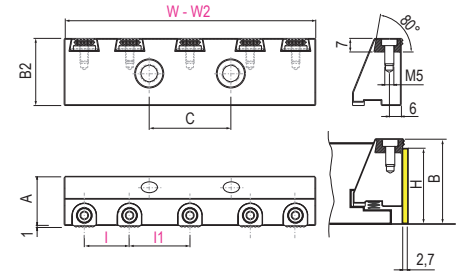
 Piastra Piana con Inserti GRIP. **Larghezza normale (W)**
 Straight Plate with GRIP inserts. **Normal width (W)**


Cod.	1.24.6G100	1.24.6G200	1.24.6G300	1.24.6G400	1.24.6G500	1.24.6G600
€	139	150	194	217	297	387

Art. 247G

 Piastra Piana con Inserti GRIP. **Larghezza ridotta rettificata (W1)**
 Straight Plate with GRIP inserts. **Narrow width ground (W1)**


Cod.	1.24.7G100	1.24.7G200	1.24.7G300	1.24.7G400	1.24.7G500	1.24.7G600
€	139	150	194	217	297	387

Art.242G

Art.246G

Art.248G

Dotazione Standard - Standard Equipment
 1 pc. Art.313S (parallela magnetica SINGOLA) - 1 pc. Art.313S (SINGLE magnetic parallel)

Tipo / Type	1	2	3	4	5	6
W	100	125	150	175	200	300
W2	74	94	124	144	169	194
I	-	-	31,5	35	27	33
I1	35	45	31,5	35	27	33
C	20	32	50	50	76	90
C1	62	80	90	116	138	184
C2	25	32	50	50	76	90
B	30	40	50	60	65	80
B1	24,5	32	39	43	48	56
B2	24,5	32	40	43	53	63
A	25	27	29	32	34	43
A1	20	20	20	20	20	20
H	25	35	45	55	60	75

INSERT GRIP JAW PLATES WITH MAGNETIC PARALLEL


Art. 242G

 Con parallela magnetica e Inserti GRIP
 With magnetic parallel and GRIP inserts

Art. 243G

 Larghezza ridotta
 Narrow width

Art. 248G

 Per ganasca fissa doppia
 For double fixed jaw

 Con parallela magnetica e Inserti GRIP
 With magnetic parallel and GRIP inserts

Art. 249G

 Larghezza ridotta
 Narrow width

Art. 246G

 Piastra Piana
 Straight Plate

 Piana con parallela magnetica e Inserti GRIP
 Straight with magnetic parallel and GRIP inserts

Art. 247G

 Larghezza ridotta
 Narrow width


Inserti Grip - Grip Inserts

Art. 220 G01

 Per materiali di durezza normale
 For standard workpieces hardness clamping


Cod. 4.22.01000 / G01

€ 19

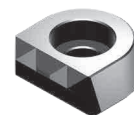
Art. 220 G02

 Per materiali di notevole durezza.
 For hardened workpieces clamping


Cod. 4.22.01000 / G02

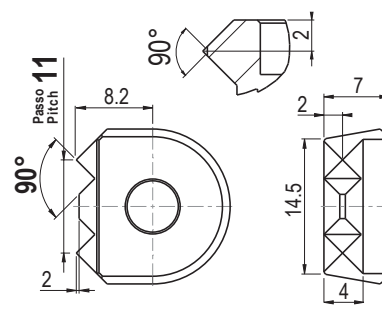
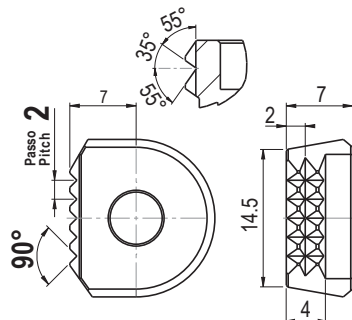
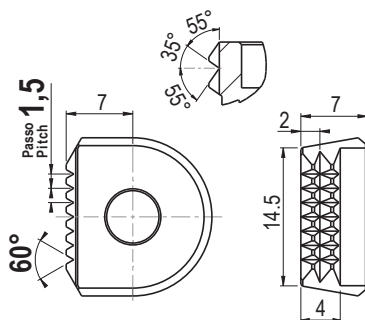
€ 19

Art. 220 G11

 Per materiali teneri
 For soft material clamping


Cod. 4.22.01000 / G11

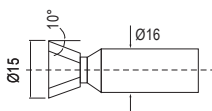
€ 19



Tipo / Type	1	2	3	4	5	6
Art.242G - Art.248G - Art.246G	3 pcs each jaw plate	3 pcs each jaw plate	5 pcs each jaw plate	5 pcs each jaw plate	7 pcs each jaw plate	9 pcs each jaw plate
Art.243G - Art.249G - Art.247G	3 pcs each jaw plate	3 pcs each jaw plate	5 pcs each jaw plate	5 pcs each jaw plate	7 pcs each jaw plate	7 pcs each jaw plate
Viti a testa bassa M5 x 10mm Low head screws M5 x 10mm	3 pcs each	3 pcs each	5 pcs each	5 pcs each	7 pcs each	7 / 9 pcs each

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
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Art.220F

 Utensile fresa per realizzare
 sedi per inserti grip su piastre
 ganasce dolci
 Milling tool for machining the insert
 grip seat on machineable jaw plates


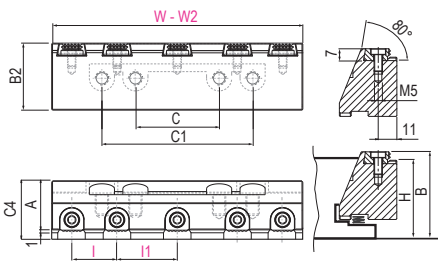
Ø	15
Cod.	4.22.0F1510
€	319

PIASTRE GANASCE A GRADINO INTEGRALE CON INSERTI GRIP

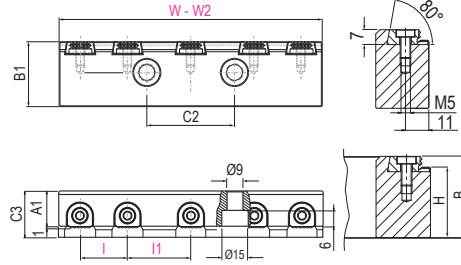
Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 242K Piastra Ganasca a gradino con Inserti GRIP. Larghezza normale (W) Step jaw plate with GRIP insert. Normal width (W)	Cod. 1.24.2K100	1.24.2K200	1.24.2K300	1.24.2K400	1.24.2K500	1.24.2K600
	€ 139	150	194	217	297	387
Art. 243K Piastra Ganasca a gradino con Inserti GRIP. Larghezza ridotta rettificata (W1) Step jaw plate with GRIP insert. Narrow width ground (W1)	Cod. 1.24.3K100	1.24.3K200	1.24.3K300	1.24.3K400	1.24.3K500	1.24.3K600
	€ 139	150	161	217	264	356
Art. 248K Piastra Ganasca a gradino con Inserti GRIP per ganasca fissa doppia. Larghezza normale (W) Jaw plate with GRIP insert for double fixed jaw. Normal width (W)	Cod. 1.24.8K100	1.24.8K200	1.24.8K300	1.24.8K400	1.24.8K500	1.24.8K600
	€ 139	150	194	217	297	387
Art. 249K Piastra Ganasca a gradino con Inserti GRIP per ganasca fissa doppia. Larghezza ridotta rettificata (W1) Step jaw plate with GRIP insert. For double fixed jaw. Narrow width ground (W1)	Cod. 1.24.9K100	1.24.9K200	1.24.9K300	1.24.9K400	1.24.9K500	1.24.9K600
	€ 139	150	161	217	264	356
Art. 246K Piastra Piana con Inserti GRIP. Larghezza normale (W) Straight Plate with GRIP inserts. Normal width (W)	Cod. 1.24.6K100	1.24.6K200	1.24.6K300	1.24.6K400	1.24.6K500	1.24.6K600
	€ 139	150	194	217	297	387
Art. 247K Piastra Piana con Inserti GRIP. Larghezza ridotta rettificata (W1) Straight Plate with GRIP inserts. Narrow width ground (W1)	Cod. 1.24.7K100	1.24.7K200	1.24.7K300	1.24.7K400	1.24.7K500	1.24.7K600
	€ 139	150	194	217	297	387

ATTENZIONE - ATTENTION:
Utilizzare solo con viti posteriori ben serrate - Using only with rear screws strong clamped

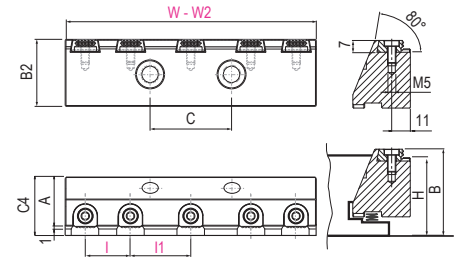
Art.242K



Art.247K



Art.248K



Tipo / Type	1	2	3	4	5	6
W	100	125	150	175	200	300
W2	74	94	124	144	169	194
I	-	-	31,5	35	27	33
I1	35	45	31,5	35	27	33
C	20	32	50	50	76	90
C1	62	80	90	116	138	184
C2	25	32	50	50	76	90
C3	25	25	25	25	25	25
C4	30	32	34	37	39	48
B	30	40	50	60	65	80
B1	24,5	32	39	43	48	56
B2	24,5	32	40	43	53	63
A	25	27	29	32	34	43
A1	20	20	20	20	20	20
H	25	35	45	55	60	75

INTEGRAL INSERT GRIP STEP JAW PLATES

Art. 242K +

A gradino con Inserti GRIP
With step and GRIP inserts



Art. 248K Per ganascia fissa doppia
For double fixed jaw

A gradino con Inserti GRIP
With step and GRIP inserts



Art. 246K Piastra Piana
Straight Plate

A gradino con Inserti GRIP
With step and GRIP inserts



Art. 243K

Larghezza ridotta
Narrow width



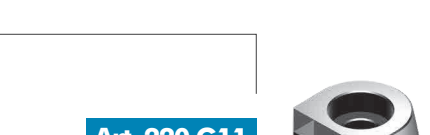
Art. 249K

Larghezza ridotta
Narrow width



Art. 247K

Larghezza ridotta
Narrow width



Inserti Grip - Grip Inserts

Art. 220 G01

Per materiali di durezza normale
For standard workpieces hardness clamping

Cod. 4.22.01000 / G01

€ 19

Art. 220 G02

Per materiali di notevole durezza.
For hardened workpieces clamping

Cod. 4.22.01000 / G02

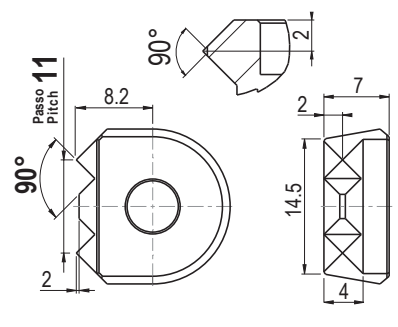
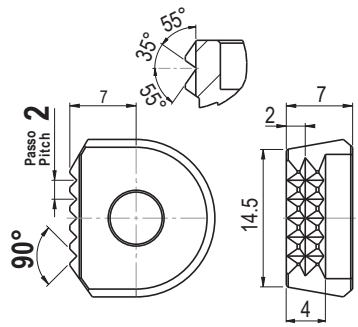
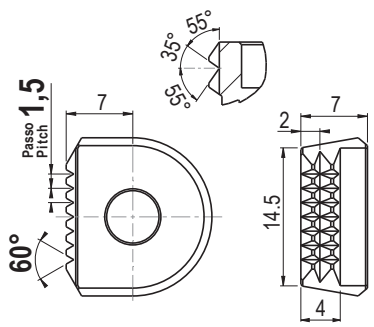
€ 19

Art. 220 G11

Per materiali teneri
For soft material clamping

Cod. 4.22.01000 / G11

€ 19

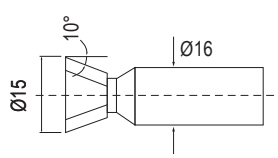


Tipo / Type	1	2	3	4	5	6
Art.242K - Art.248K - Art.246K	3 pcs each jaw plate	3 pcs each jaw plate	5 pcs each jaw plate	5 pcs each jaw plate	7 pcs each jaw plate	9 pcs each jaw plate
Art.243K - Art.249K - Art.247K	3 pcs each jaw plate	3 pcs each jaw plate	5 pcs each jaw plate	5 pcs each jaw plate	7 pcs each jaw plate	7 pcs each jaw plate
Viti a testa bassa M5 x 10mm Low head screws M5 x 10mm	3 pcs each	3 pcs each	5 pcs each	5 pcs each	7 pcs each	7 / 9 pcs each

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
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Art.220F

Utensile fresa per realizzare sedi per inserti grip su piastre ganasce dolci
Milling tool for machining the insert grip seat on machineable jaw plates



Ø 15

Cod. 4.22.0F1510

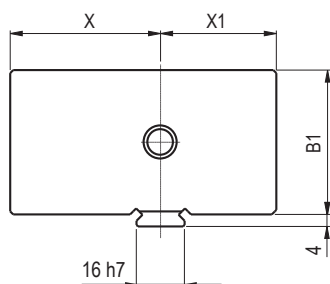
€ 319

GANASCE LAVORABILI MONOBLOCCO / SOLID MACHINEABLE JAWS

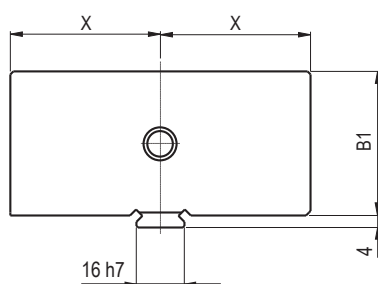
Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6	
Art. 160 Ganascia fissa. <i>Larghezza normale (W3)</i> Fixed jaw. <i>Normal width (W3)</i>	Cod.	2.16.01000	2.16.02000	2.16.03000	2.16.04000	2.16.05000	2.16.06000
	€	160	203	243	285	405	623
Art. 161 Ganascia fissa. <i>Larghezza ridotta rettificata (W1)</i> Fixed jaw. <i>Narrow width ground (W1)</i>	Cod.	2.16.11000	2.16.12000	2.16.13000	2.16.14000	2.16.15000	2.16.16000
	€	206	261	314	369	526	810
Art. 163 Ganascia fissa doppia. <i>Larghezza normale (W3)</i> Double fixed jaw. <i>Normal width (W3)</i>	Cod.	2.16.31000	2.16.32000	2.16.33000	2.16.34000	2.16.35000	2.16.36000
	€	215	297	359	422	623	932
Art. 164 Ganascia fissa doppia. <i>Larghezza ridotta rettificata (W1)</i> Double fixed jaw. <i>Narrow width ground (W1)</i>	Cod.	2.16.41000	2.16.42000	2.16.43000	2.16.44000	2.16.45000	2.16.46000
	€	276	384	467	546	810	1.210
Art. 166 Ganascia mobile monoblocco guidata. <i>Larghezza normale (W3)</i> Guided movable solid jaw. <i>Normal width (W3)</i>	Cod.	2.16.61000	2.16.62000	2.16.63000	2.16.64000	2.16.65000	2.16.66000
	€	160	203	243	285	405	623
Art. 167 Ganascia mobile monoblocco guidata. <i>Larghezza ridotta (W2)</i> Guided movable solid jaw. <i>Narrow width (W2)</i>	Cod.	2.16.71000	2.16.72000	2.16.73000	2.16.74000	2.16.75000	2.16.76000
	€	160	203	243	285	405	623
Art. 168 Ganascia mobile monoblocco oscillante. <i>Larghezza normale (W3)</i> Floating movable solid jaw. <i>Normal width (W3)</i>	Cod.	2.16.81000	2.16.82000	2.16.83000	2.16.84000	2.16.85000	2.16.86000
	€	160	203	243	285	405	623
Art. 169 Ganascia mobile monoblocco oscillante. <i>Larghezza ridotta (W2)</i> Floating movable solid jaw. <i>Narrow width (W2)</i>	Cod.	2.16.91000	2.16.92000	2.16.93000	2.16.94000	2.16.95000	2.16.96000
	€	160	203	243	285	405	623

Durezza / Hardness HB= 290

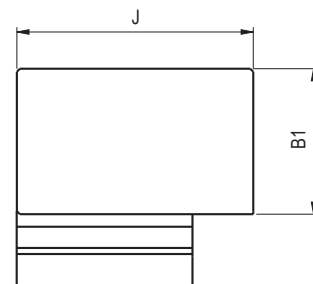
Art. 160



Art. 163



Art. 166



Art.	1	2	3	4	5	6
W3	96	121	146	171	196	296
W1	75	95	125	145	170	195
W2	74	94	124	144	169	194
B1	28	38	48	58	63	78
Y	21	28	41	51	61	71
Y-1	20	27	40	50	60	70
J	50	60	80	90	100	120
X	42,4	42,4	50,9	55,4	66,4	73,1
X1	35,5	35,5	36,5	41,5	47	47

GANASCE MONOBLOCCO TEMPRATE CON GRADINO / SOLID JAWS WITH STEP, CASE HARDENED

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 200 Ganascia fissa. <i>Larghezza normale (W3)</i> Fixed jaw. <i>Normal width (W3)</i>	Cod. 2.20.01000	2.20.02000	2.20.03000	2.20.04000	2.20.05000	2.20.06000
	€ 160	203	243	285	405	623
Art. 201 Ganascia fissa. <i>Larghezza ridotta rettificata (W1)</i> Fixed jaw. <i>Narrow width ground (W1)</i>	Cod. 2.20.11000	2.20.12000	2.20.13000	2.20.14000	2.20.15000	2.20.16000
	€ 206	261	314	369	526	810
Art. 203 Ganascia fissa doppia. <i>Larghezza normale (W3)</i> Double fixed jaw. <i>Normal width (W3)</i>	Cod. 2.20.31000	2.20.32000	2.20.33000	2.20.34000	2.20.35000	2.20.36000
	€ 215	297	359	422	623	932
Art. 204 Ganascia fissa doppia. <i>Larghezza ridotta rettificata (W1)</i> Double fixed jaw. <i>Narrow width ground (W1)</i>	Cod. 2.20.41000	2.20.42000	2.20.43000	2.20.44000	2.20.45000	2.20.46000
	€ 276	384	467	546	810	1.210
Art. 208 Ganascia mobile monoblocco guidata. <i>Larghezza normale (W3)</i> Guided movable solid jaw. <i>Normal width (W3)</i>	Cod. 2.20.81000	2.20.82000	2.20.83000	2.20.84000	2.20.85000	2.20.86000
	€ 160	203	243	285	405	623
Art. 209 Ganascia mobile monoblocco guidata. <i>Larghezza ridotta (W2)</i> Guided movable solid jaw. <i>Narrow width (W2)</i>	Cod. 2.20.91000	2.20.92000	2.20.93000	2.20.94000	2.20.95000	2.20.96000
	€ 160	203	243	285	405	623
Art. 206 Ganascia mobile monoblocco oscillante. <i>Larghezza normale (W3)</i> Floating movable solid jaw. <i>Normal width (W3)</i>	Cod. 2.20.61000	2.20.62000	2.20.63000	2.20.64000	2.20.65000	2.20.66000
	€ 160	203	243	285	405	623
Art. 207 Ganascia mobile monoblocco oscillante. <i>Larghezza ridotta (W2)</i> Floating movable solid jaw. <i>Narrow width (W2)</i>	Cod. 2.20.71000	2.20.72000	2.20.73000	2.20.74000	2.20.75000	2.20.76000
	€ 160	203	243	285	405	623

Durezza / Hardness HRC= 60

Art.	1	2	3	4	5	6
Art. 200						
Art. 203						
Art. 208						
W3	96	121	146	171	196	296
W1	75	95	125	145	170	195
W2	74	94	124	144	169	194
Y	21	28	41	51	61	71
Y-1	20	27	40	50	60	70
B1	28	38	48	58	63	78
* H	23	33	43	53	53	68
J	50	60	80	90	100	120
X	42,4	42,4	50,9	55,4	66,4	73,1
X1	35,5	35,5	38,5	41,5	47	47

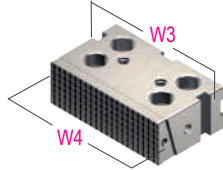
* DIMENSIONE DA ACCOPPIARE AD Art. 212 + 217 + 214 - DIMENSION TO BE MATCHED WITH Art. 212 + 217 + 214

Piastra ganascia StdFLEX a cambio rapido / StdFLEX quick change jaw plates

Tipo (grandezza) morsa / Vise type (size)

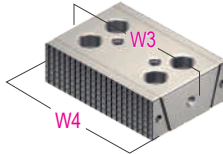
1	2	3	4	5	6
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Art. 120A

 Ganascia fissa
 Fixed jaw


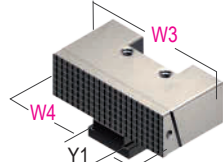
Cod.	4.12.0A100	4.12.0A200	4.12.0A300	4.12.0A400	4.12.0A500	4.12.0A600
€	206	262	314	369	529	811

Art. 123A

 Ganascia fissa doppia
 Double fixed jaw


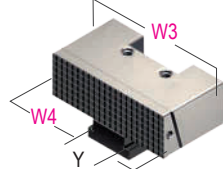
Cod.	4.12.3A100	4.12.3A200	4.12.3A300	4.12.3A400	4.12.3A500	4.12.3A600
€	278	384	467	546	811	1.212

Art. 126A

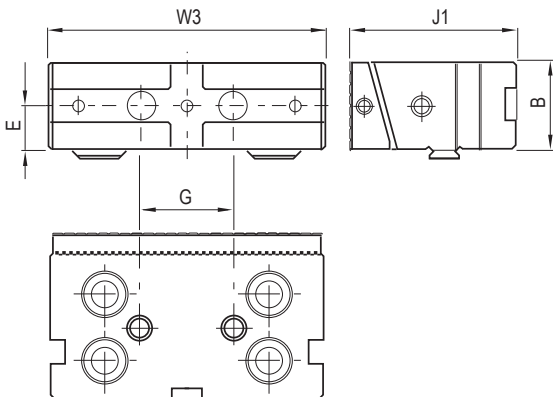
 Ganascia mobile oscillante
 Floating movable jaw


Cod.	4.12.6A100	4.12.6A200	4.12.6A300	4.12.6A400	4.12.6A500	4.12.6A600
€	206	262	314	369	529	811

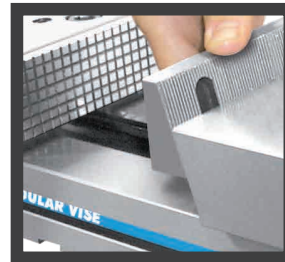
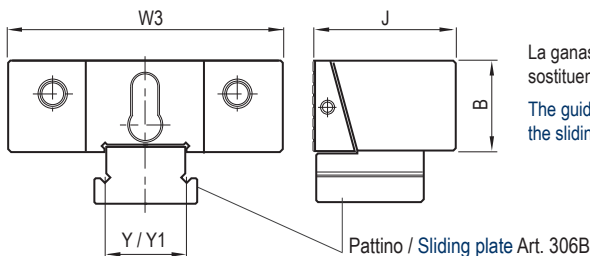
Art. 127A

 Ganascia mobile guidata
 Guided movable jaw


Cod.	4.12.7A100	4.12.7A200	4.12.7A300	4.12.7A400	4.12.7A500	4.12.7A600
€	206	262	314	369	529	811

Art. 120A
Durezza / Hardnes HRC= 60


Ganacce StandardFLEX con piastre intercambiabili manualmente (Sistema a pettine)
StandardFLEX jaws with interchangeable jaw plates by hand (Comb system)


Art. 127A


La ganascia mobile guidata, Art. 127A, può essere tramutata in ganascia mobile oscillante, sostituendo il pattino, Art. 306B, con il pattino Art. 306C (vedi pag. 4.30)

The guided movable jaw, Art. 127A, could be transformed in a floating movable jaw by simply exchanging the sliding plate, Art. 306B, with sliding plate Art. 306C (see page 4.30)

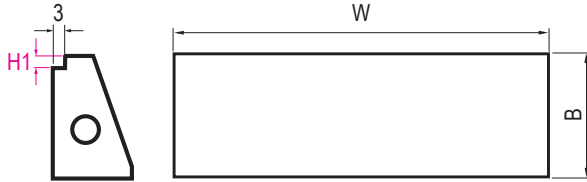
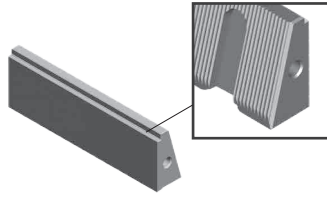
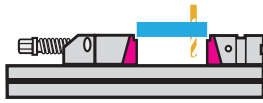
mm	1	2	3	4	5	6
W3	96	121	146	171	196	296
W4	95	120	145	170	195	295
B	28	38	48	58	63	78
E	14	19	25	27	30	47
G	-	-	50	50	50	50
J	50	60	80	90	100	120
J1	77,9	77,9	89,4	96,9	113,4	120,4
Y	21	28	41	51	61	71
Y1	20	27	40	50	60	70

Piastre ganascia StdFLEX a cambio rapido / StdFLEX quick change jaw plates

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6		
Piastre ganascia rapide singole. Ricambi per ganascie rapide a pettine Single quick change jaw plates. Spares for quick change comb jaw								
	W4	95	120	145	170	195	295	
	B	28	38	48	58	63	78	
	C	9	9	11	11	14	14	
Art. 230B Piastra ganascia intercambiabile dolce a pettine Soft comb interchangeable jaw plate			Cod. 4.23.0B101 € 79	Cod. 4.23.0B201 € 86	Cod. 4.23.0B301 € 101	Cod. 4.23.0B401 € 129	Cod. 4.23.0B501 € 180	Cod. 4.23.0B601 € 236
Art. 230C Piastra ganascia intercambiabile liscia a pettine Smooth comb interchangeable jaw plate			Cod. 4.23.0C101 € 95	Cod. 4.23.0C201 € 105	Cod. 4.23.0C301 € 128	Cod. 4.23.0C401 € 158	Cod. 4.23.0C501 € 223	Cod. 4.23.0C601 € 296
Art. 230D Piastra ganascia intercambiabile zigrinata a pettine Serrated comb interchangeable jaw plate			Cod. 4.23.0D101 € 95	Cod. 4.23.0D201 € 105	Cod. 4.23.0D301 € 128	Cod. 4.23.0D401 € 158	Cod. 4.23.0D501 € 223	Cod. 4.23.0D601 € 296
Art. 230SLD Piastra ganascia scaricata a pettine Discharged comb jaw plate			Per il serraggio di particolari di piccole dimensioni utilizzare sempre ganascie scaricate To clamp small workpieces use discharged jaws					
	A	28	38	48	58	63	95	
	B	12	12	12	12	12	12	
	C	14	18	32	42	47	79	
	H	8	8	8	8	8	8	
Art. 230SLE Piastra ganascia con gradino scaricata a pettine Discharged step comb jaw plate			Cod. 4.23.0SLD101 € 95	Cod. 4.23.0SLD201 € 105	Cod. 4.23.0SLD301 € 128	Cod. 4.23.0SLD401 € 158	Cod. 4.23.0SLD501 € 223	Cod. 4.23.0SLD601 € 296
	C	14	18	32	42	47	79	
	H	24	34	44	54	59	74	
	H1	4	4	4	4	4	4	
Art. 230K Piastra ganascia intercambiabile a gradino a pettine con inserti GRIP Comb interchangeable step jaw plate with GRIP inserts			Cod. 4.23.0K100 € 149	Cod. 4.23.0K200 € 171	Cod. 4.23.0K300 € 217	Cod. 4.23.0K400 € 251	Cod. 4.23.0K500 € 319	Cod. 4.23.0K600 € 422
Art. 230F Piastra ganascia intercambiabile prismatica a pettine Prismatic comb interchangeable jaw plate			Cod. 4.23.0F101 € 127	Cod. 4.23.0F201 € 136	Cod. 4.23.0F301 € 162	Cod. 4.23.0F401 € 205	Cod. 4.23.0F501 € 289	Cod. 4.23.0F601 € 382
	Ø min / max	A 6 / 16	9 / 24	13 / 38	15 / 40	15 / 42	15 / 42	
	Ø min / max	B 4 / 10	7 / 18	9 / 24	9 / 24	9 / 24	9 / 24	
Art. 230G Piastra ganascia intercambiabile a pettine con arresto a 90° 90° interchangeable comb jaw plate			Solo 1 per morsa !! Just 1 pc each vise !!					
	Cod.	4.23.0G101	4.23.0G201	4.23.0G301	4.23.0G401	4.23.0G501	4.23.0G601	
	€	95	105	128	158	223	296	
Art. 230H Piastra ganascia intercambiabile bombata a pettine Round comb interchangeable jaw plate			Solo 1 per morsa !! Just 1 pc each vise !!					
	Cod.	4.23.0H101	4.23.0H201	4.23.0H301	4.23.0H401	4.23.0H501	4.23.0H601	
	€	95	105	128	158	223	296	
Art. 230M Piastra ganascia intercambiabile a pettine per angolo di 30° o 45° 30° or 45° angle interchangeable comb jaw plate			Solo 1 per morsa !! Just 1 pc each vise !!					
	Cod.	4.23.0M101	4.23.0M201	4.23.0M301	4.23.0M401	4.23.0M501	4.23.0M601	
	€	127	136	162	205	289	382	
Art. 230L Piastra ganascia intercambiabile a pettine con inserti GRIP frontali GRIP frontal inserts interchangeable comb jaw plate			Cod. 4.23.0L101 € 149	Cod. 4.23.0L201 € 170	Cod. 4.23.0L301 € 217	Cod. 4.23.0L401 € 251	Cod. 4.23.0L501 € 319	Cod. 4.23.0L601 € 422

GANASCE StdFLEX A CAMBIO RAPIDO / StdFLEX QUICK CHANGE JAWS

Tipo (grandezza) morsa / Vise type (size)
Art. 230E

 Piastra ganascia intercambiabile a gradino a pettine
 Step comb interchangeable jaw plate


	1	2	3	4	5	6
W	95	120	145	170	195	295
B	28	38	48	58	63	78
	3	3	3	3	3	3
	5	5	5	5	5	5
	8	8	8	8	10	10
H1	13	13	13	13	13	13
	-	18	18	18	18	18
	-	23	23	23	23	23
	-	-	28	28	28	28

SPECIFICARE SEMPRE QUOTA "H1" - ALWAYS SPECIFY "H1" DIMENSION

Cod.	4.23.0E101	4.23.0E201	4.23.0E301	4.23.0E401	4.23.0E501	4.23.0E601
€	95	105	128	158	223	296

SET RISPARMIO FINO AL 41% - SAVING WITH THE SET UP TO 41%

*Aggiungendo solo 2€ al set di piastre ganascia hai in regalo il portapiastre Art.320X ! - Rack Art.320X supplied with the SET with 2€ only

 Acquistando i seguenti set di piastre ganascie
 If you purchase this number of jaw plate sets

*Set	8	12	14	14	14	14
	Pezzi - Pieces	Pezzi - Pieces	Pezzi - Pieces	Pezzi - Pieces	Pezzi - Pieces	Pezzi - Pieces
€	456	744	1.050	1.316	1.862	2.464
€	57	62	75	94	133	176

 Prezzo Cad. se acquistate con set
 Price each in case of set purchase

Art. 320

 Portapiastre
 Rack


Cod.	4.32.01000	4.32.02000	4.32.03000	4.32.04000	4.32.05000	4.32.06000
€	79	92	105	121	139	165

Art. 605G1

Vite a gradino / Step screw



Cod.	6.60.5G101
€	9

Art. 605G2

Perno a molla / Spring pin



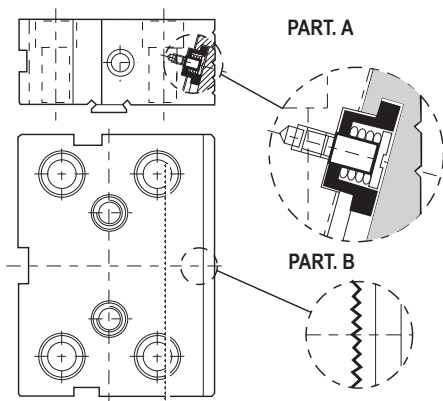
Cod.	6.60.5G201	6.60.5G202
€	9	10

Art. 605G3

Molla / Spring



Cod.	6.60.5G301
€	16



Rapida sostituzione delle piastre ganascie discendenti senza bisogno di alcun utensile

Il nuovo sistema con piastre ganascie intercambiabili, conferisce alla morsa STD un ulteriore aumento di versatilità dato dalla rapidità di sostituzione delle piastre ganascie e dalla precisione di riposizionamento. La rapidità di sostituzione delle piastre ganascie è resa possibile dal nuovo sistema con perno a molla (PART. A), mentre le righe prismatiche (PART. B) effettuate con mola sagomata sui piani d'appoggio rendono possibile un riposizionamento di elevata precisione.

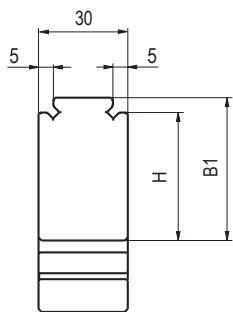
Quick hand change of downward jaw plates - no tools needed

The new system with quick interchangeable jaw plates increases the STD vise versatility, and allows the quick jaw allows plates replacement and their high precision repositioning. The speed of the jaw replacement is allowed by the new design of pin with spring (PART. A), while the prismatic grooves (PART. B), made with shaped grind wheel on the surface plates, allow a perfect repositioning. The wide range of interchangeable jaw plates can satisfy the most varied workholding needs.

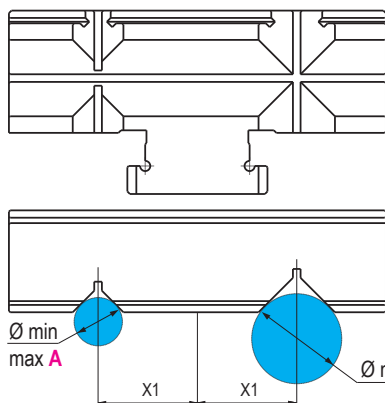
GANASCE MOBILI INTERMEDIE / INTERMEDIATE MOVABLE JAWS

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6	
Art. 212 Ganasca mobile intermedia con doppio gradino. Larghezza normale (W3) Intermediate movable jaw with double step. Normal width (W3)	Cod.	1.21.21000	1.21.22000	1.21.23000	1.21.24000	1.21.25000	1.21.26000
	€	105	128	165	208	250	346
	Cod.	1.21.31000	1.21.32000	1.21.33000	1.21.34000	1.21.35000	1.21.36000
	€	105	128	165	208	250	346
Art. 214 Ganasca mobile intermedia prismatica. Larghezza normale (W3) Prismatic intermediate movable jaw. Normal width (W3)	Cod.	1.21.41000	1.21.42000	1.21.43000	1.21.44000	1.21.45000	1.21.46000
	€	164	165	208	262	346	589
	Cod.	1.21.51000	1.21.52000	1.21.53000	1.21.54000	1.21.55000	1.21.56000
	€	164	165	208	262	346	589
Art. 224 Ganasca mobile intermedia. Larghezza normale (W3) Intermediate movable jaw. Normal width (W3)	Cod.	1.22.41000	1.22.42000	1.22.43000	1.22.44000	1.22.45000	1.22.46000
	€	121	139	181	228	276	385
	Cod.	1.22.51000	1.22.52000	1.22.53000	1.22.54000	1.22.55000	1.22.56000
	€	121	139	181	228	276	385

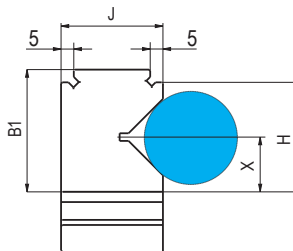
Art. 212



Art. 214



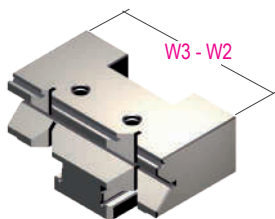
Art. 224



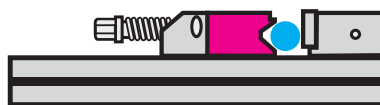
Art.	1	2	3	4	5	6
W3	96	121	146	171	196	296
W2	74	94	124	144	169	194
B	30	40	50	60	65	80
B1	28	38	48	58	63	78
H	23	33	43	53	53	68
J	30	30	40	40	45	50
X	11,5	16,5	21,5	26,5	26,5	34
X1	25	33	39	50	55	70
Ø min/max A	4 - 10	7 - 18	9 - 24	9 - 24	9 - 24	10 - 28
Ø min/max B	6 - 16	9 - 24	13 - 38	15 - 40	15 - 42	18 - 46

GANASCE MOBILI PRISMATICHE / PRISMATIC MOVABLE JAWS

Tipo (grandezza) morsa / Vise type (size)
Art. 217

 Ganascia mobile guidata prismatica.
 Larghezza normale (W3)
 Prismatic guided movable jaw.
 Normal width (W3)


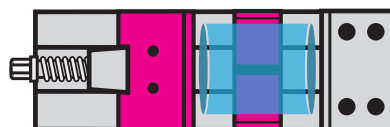
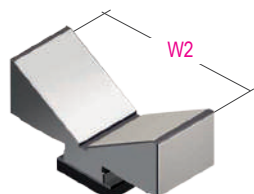
Cod.	2.21.71000	2.21.72000	2.21.73000	2.21.74000	2.21.75000	2.21.76000
€	164	137	194	262	346	589


Art. 218

 Ganascia mobile guidata prismatica.
 Larghezza ridotta (W2)
 Prismatic guided movable jaw.
 Narrow width (W2)

Cod.	2.21.81000	2.21.82000	2.21.83000	2.21.84000	2.21.85000	2.21.86000
€	164	137	194	262	346	589

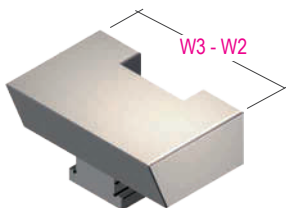
Art. 152

 Inserto prismatico.
 Larghezza ridotta (W2)
 Prismatic insert. Narrow width (W2)


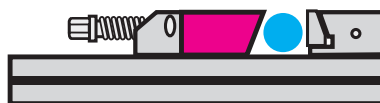
Cod.	4.15.21000	4.15.22000	4.15.23000	4.15.24000	4.15.25000	4.15.26000
€	257	322	389	454	562	838

Ganasce per PARTICOLARI TONDI / Jaws for ROUND WORKPIECE

Art. 210

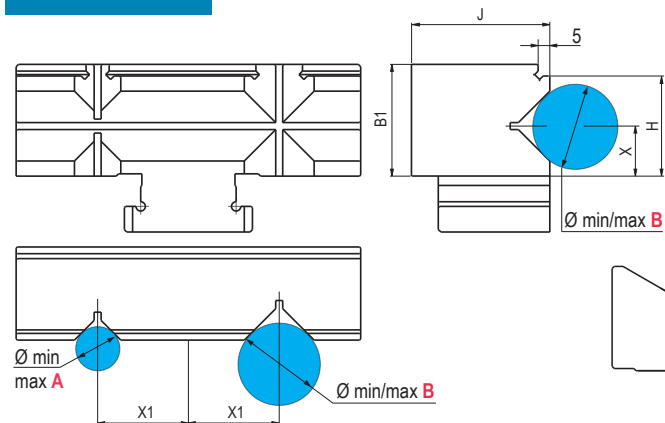
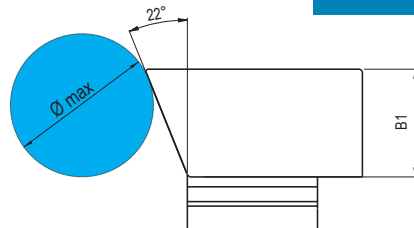
 Ganascia mobile oscillante.
 Larghezza normale (W3)
 Floating movable jaw. Normal width (W3)


Cod.	2.21.01000	2.21.02000	2.21.03000	2.21.04000	2.21.05000	2.21.06000
€	160	203	243	285	405	623


Art. 211

 Ganascia mobile oscillante.
 Larghezza ridotta (W2)
 Floating movable jaw. Narrow width (W2)

Cod.	2.21.11000	2.21.12000	2.21.13000	2.21.14000	2.21.15000	2.21.16000
€	160	203	243	285	405	623

Art. 217

Art. 210

Art. 152

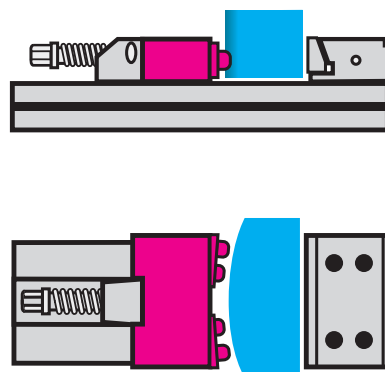
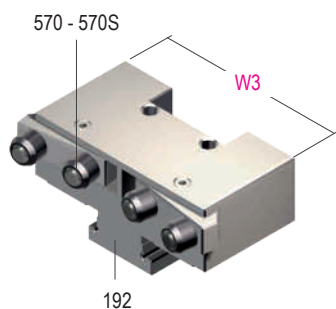
mm	1	2	3	4	5	6
W3	96	121	146	171	196	296
W2	74	94	124	144	169	194
B1	28	38	48	58	63	78
H	23	33	43	53	53	68
J	50	60	80	90	100	120
X	11,5	16,5	21,5	26,5	31,5	34
X1	25	33	39	50	50	70
Ø min / max A Art. 217	4 - 10	7 - 18	9 - 24	9 - 24	9 - 24	10 - 28
Ø min / max B Art. 217	6 - 16	9 - 24	13 - 38	15 - 40	15 - 42	18 - 46
Ø min / max Art. 152	A richiesta On request					
Ø max Art. 210	35	50	65	80	85	105

GANASCE CON SEGMENTI OSCILLANTI / MOVABLE JAW WITH FLOATING ELEMENTS

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
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Art. 192

Ganascia mobile oscillante con 2 segmenti oscillanti e puntali sferici lisci.
 Floating movable jaw with two floating elements and spherical smooth points.

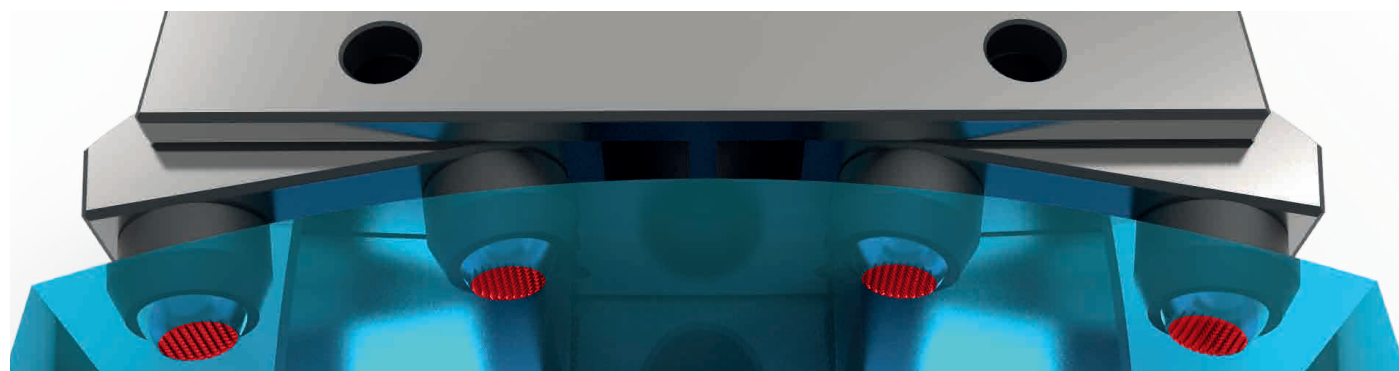


Art. 192S

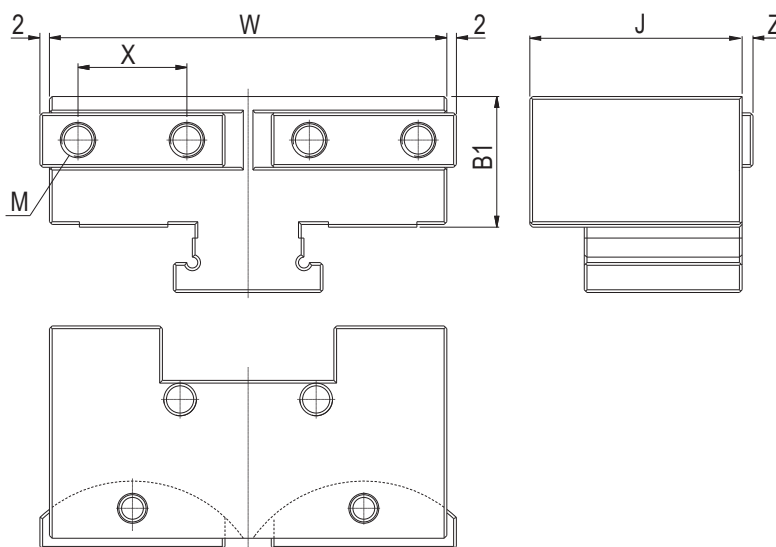
Ganascia mobile oscillante con 2 elementi oscillanti e puntali sferici zigrinati.
 Floating movable jaw with two floating elements and spherical serrated points.

Per serraggio di particolari irregolari - For irregular workpieces clamping

Cod.	4.19.21000	4.19.22000	4.19.23000	4.19.24000	4.19.25000	4.19.26000
Cod.	4.19.2S100	4.19.2S200	4.19.2S300	4.19.2S400	4.19.2S500	4.19.2S600
€	476	609	728	809	1.029	1.365



Art. 192



Art.	1	2	3	4	5	6
W3	96	121	146	171	196	296
J	48	58	78	88	98	118
B1	28	38	48	58	63	78
X	30	40	40	40	60	60
M	M10	M12	M12	M12	M16	M16
N	4	4	6	7	8	12
Z	3	4	4	4	7	7

PARALLELE MODULARI MAGNETICHE AD INNESTO RAPIDO

QUICK MAGNETIC MODULAR PARALLEL PLATES

Queste piastre d'appoggio modulari parallele sono una ulteriore opportunita' del sistema modulare Gerardi. Esso consente infatti il posizionamento rapido e preciso di parallele piane o angolari per la lavorazione di pezzi piatti da forare e/o filettare.

Nessun problema di magnetismo sui trucioli

The modular bearing parallelsplates are a further opportunity of the Gerardi modular system. It allows in fact the quick and accurate positioning of straight or angular parallels plates to machine (milling, drilling and tapping) flat pieces of any size and dimension without disassembling or positioning the fixture again.

No problem with chips magnetic

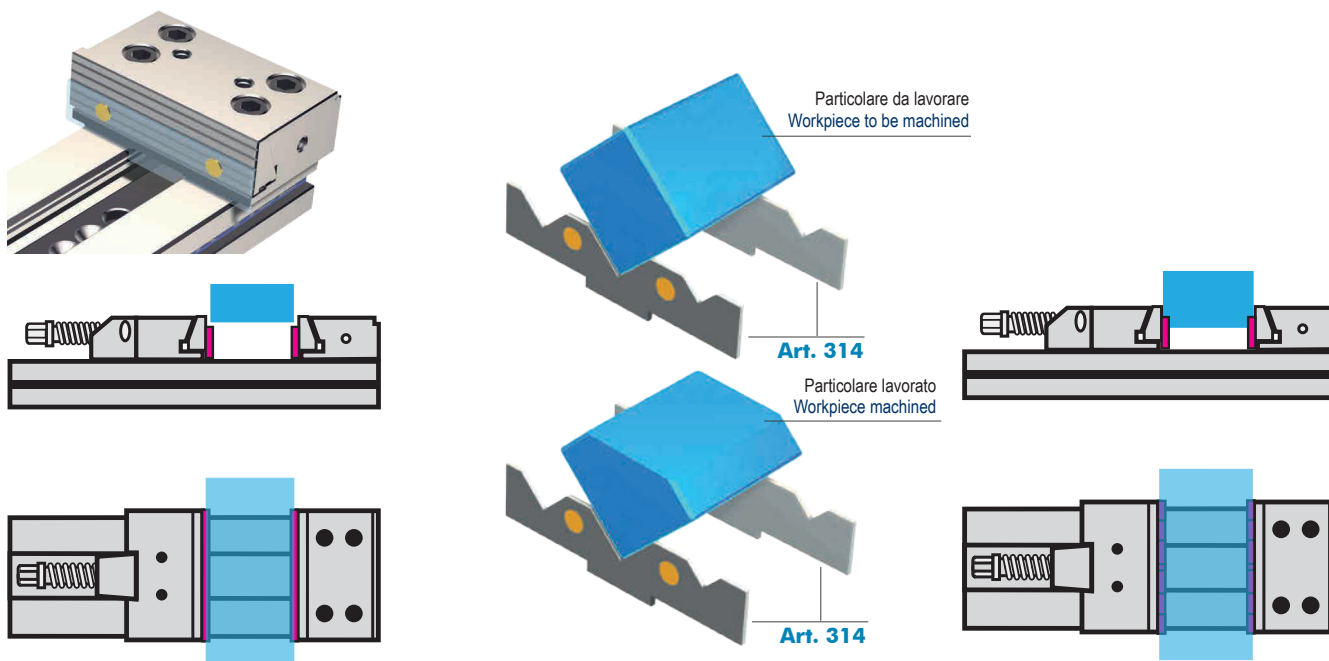
VANTAGGI:

- Rapidita' e precisione di installazione.
 - Risparmio rispetto alla sostituzione della ganaschia intera.
 - Minori ingombri e costi rispetto alle parallele standard.
 - Usiamo parallele magnetiche con piastre ganasche avvitate
- Naturalmente tutti i componenti sono in acciaio speciale per molle e rettificati con tolleranze centesimali.

ADVANTAGES:

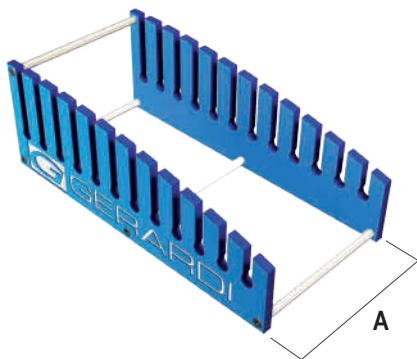
- Quick and accurate positioning.
 - Saving with respect to the substitution of the whole jaw.
 - Space and money saving with respect to the standard parallel plates.
 - Use magnetic plates with jaw plates completely tightened
- Of course each component is made of hardened and ground spring steel and the accuracy is within 0,02 mm.

ESEMPI DI APPLICAZIONE - TYPICAL ARRANGEMENTS



Art. 317

Rastrelliera per piastre parallele magnetiche piane e angolari
 Rack for straight and angular parallel magnetic plates



Per morse tipo (grandezza) da 1 a 6
 For vises (type) size 1 ÷ 6

A	60	100	150
Cod.	4.31.71000	4.31.73000	4.31.75000
€	111		

Art. 313A

Magnete per parallele
 Magnet for parallels



Cod.	4.31.3A100
€	11

NON MODULARI - NOT MODULAR

Richiedono aggiustaggio in opera - Adjustment needed before working

Per qualsiasi parallela speciale, raddoppiare il prezzo / For special tailor made parallel double the price

Tipo (grandezza) / Vise type (size)	1	2	3	4	5	6
Art. 313						
Coppia di parallele magnetiche guidate Pair of guided parallels magnetic plates						
H STANDARD FOR INSERT GRIP H STANDARD	-	-	-	20	20	30
	-	-	15	25	25	35
	-	15	20	30	30	40
	-	20	25	35	35	45
	15	25	30	40	40	50
	18	28	35	45	45	54
	20	30	40	50	50	60
	23	33	43	53	53	68
	25	35	45	55	57	70
	27	37	47	57	60	75
B	30	40	50	60	65	70
W	100	125	150	175	200	300
Cod.	4.31.3100C	4.31.3200C	4.31.3300C	4.31.3400C	4.31.3500C	4.31.3600C
€	73	93	116	136	155	176

Art. 313R	SPECIFICARE SEMPRE QUOTA "H" - ALWAYS SPECIFY "H" DIMENSION						
Coppia di parallele magnetiche guidate ridotte Pair of narrow guided parallels magnetic plates	W1	74	94	124	144	169	194
	Cod.	4.31.3R10C	4.31.3R20C	4.31.3R30C	4.31.3R40C	4.31.3R50C	4.31.3R60C
	€	73	93	116	136	155	176

Utilizzabili per qualsiasi tipo o marca di morsa - To be used with any vise type or brand

Art. 414	SPECIFICARE SEMPRE QUOTA "H" - ALWAYS SPECIFY "H" DIMENSION						
Coppia di parallele magnetiche universali Pair of universal parallels magnetic plates	W	100	125	150	175	200	300
	J	2,7	2,7	2,7	2,7	2,7	2,7
	Cod.	4.41.4100C	4.41.4200C	4.41.4300C	4.41.4400C	4.41.4500C	4.41.4600C
	€	73	93	116	136	155	176

Art. 414R	SPECIFICARE SEMPRE QUOTA "H" - ALWAYS SPECIFY "H" DIMENSION						
Coppia di parallele magnetiche ridotte universali Pair of universal narrow parallels magnetic plates	W1	74	94	124	144	169	194
	Cod.	4.41.4R10C	4.41.4R20C	4.41.4R30C	4.41.4R40C	4.41.4R50C	4.41.4R60C
	€	73	93	116	136	155	176

SET RISPARMIO FINO AL 43% - SAVING WITH THE SET UP TO 43%
 Aggiungendo solo 2€ al set di parallele hai in regalo la rastrelliera Art.317X! - Rack Art.317X supplied with the SET with 2€ only

Art. 310	6 coppie di parallele - If you purchase 6 pairs of parallels plates (Art.313-313R / 414-414R)	€	300	390	450	540	600	720
6 COPPIE - PAIRS	Prezzo Cad. se acquistate con set Price each in case of set purchase	€	50	65	75	90	100	120
Art. 311	10 coppie di parallele - If you purchase 10 pairs of parallels plates (Art.313-313R / 414-414R)	€	-	-	700	800	900	1.000
10 COPPIE - PAIRS	Prezzo Cad. se acquistate con set Price each in case of set purchase	€	-	-	70	80	90	100

Tipo (grandezza) / Vise type (size)	1	2	3	4	5	6	
Art. 314							
Coppia di parallele magnetiche angolari Pair of angular magnetic parallels plates							
α				20°			
				25°			
				30°			
				35°			
				40°			
				45°			
	SPECIFICARE SEMPRE QUOTA "α" - SPECIFY ALWAYS "α" DIMENSION						
	W	100	125	150	175	200	300
	H	23	33	43	53	53	68
	Cod.	4.31.4100C	4.31.4200C	4.31.4300C	4.31.4400C	4.31.4500C	4.31.4600C
€	136	165	211	258	285	342	

SET RISPARMIO FINO AL 43% - SAVING WITH THE SET UP TO 43%
 Aggiungendo solo 2€ al set di parallele hai in regalo la rastrelliera Art.317X! - Rack Art.317X supplied with the SET with 2€ only

Art. 312	Acquistando 6 coppie di parallele magnetiche (Art.314) If you purchase 6 pairs of angular parallels plates (Art.314)	€	630	702	792	882	1.020	1.236
6 COPPIE - PAIRS	Prezzo Cad. se acquistate con set Price each in case of set purchase	€	105	117	132	147	170	206

ACCESSORI PER GANASCE / ACCESSORIES FOR JAWS

Tipo (grandezza) / Vise type (size)		1	2	3	4	5	6
Art. 132 Prolunga per ganascia mobile. Larghezza normale Extension for movable jaw. Normal width		NO StandardFLEX					
		Cod. 2.13.21000	2.13.22000	2.13.23000	2.13.24000	2.13.25000	2.13.26000
€	94	102	114	125	142	162	
Art. 134 Prolunga per ganascia mobile. Super ridotta Extension for movable jaw. Super narrow		Cod. 2.13.41000	2.13.42000	2.13.43000	2.13.44000	2.13.45000	2.13.46000
		€	94	102	114	125	142
Art. 133 Prolunga per ganascia fissa. Larghezza normale Extension for fixed jaw. Normal width		Cod. 2.13.31000	2.13.32000	2.13.33000	2.13.34000	2.13.35000	2.13.36000
		€	114	124	133	142	162
Art. 135 Prolunga per ganascia fissa. Ridotta e super ridotta Extension for fixed jaw. Narrow and super narrow		NO StandardFLEX					
		Cod. 2.13.51000	2.13.52000	2.13.53000	2.13.54000	2.13.55000	2.13.56000
€	114	124	133	142	162	181	
Art. 260 Segmento oscillante per ganasce mobili. <i>Art. 190 - 191</i> Floating segment for movable jaws. <i>Art. 190 - 191</i>		Cod. 1.26.01000	1.26.02000	1.26.03000	1.26.04000	1.26.05000	1.26.06000
		€	54	63	63	81	115
Art. 362 Molla per piastre ganasce Spring for jaw plates		Cod. 0.70.10000	0.70.10000	0.70.30000	0.70.30000	0.70.30000	0.70.30000
		€	13	13	13	13	13
Art. 380 Vite TCEI fissaggio corpo ganascia fissa Hex socket and screw for fixed jaw body		Cod. 0.01.11030	0.01.10865	0.01.11450	0.01.11660	0.01.12065	0.01.12080
		€	11	11	12	12	14
Art. 381 Vite TCEI fissaggio piastra ganascia fissa Hex socket screw for fixed plate		Cod. 0.01.10565	0.01.11240	0.01.11451	0.01.11661	0.01.12066	0.01.12081
		€	10	10	10	10	11
Art. 382 Vite TCEI fissaggio piastra ganascia mobile Hex socket and screw for movable jaw plate		Cod. 0.01.10525	0.01.10830	0.01.10840	0.01.10845	0.01.11050	0.01.11065
		€	10	10	10	10	11
Art. 383 Vite TCEI fissaggio piastra ganascia fissa doppia Hex socket and screw for double fixed jaw		Cod. 0.01.10520	0.01.10620	0.01.10820	0.01.11820	0.01.11020	0.01.11020
		€	10	10	10	10	11
Art. 384 Vite TCEI per arresto laterale Hex socket and screw for workstop		Cod. 0.06.11100	0.06.22200	0.06.33300	0.06.44400	0.06.55500	0.06.66600
		€	10	10	10	11	11
Art. 385 Vite TCBEI fissaggio piastra ganascia piana Hex socket screw for straight-plate		Cod. 0.01.10510	0.01.10511	0.01.10512	0.01.10513	0.01.10514	0.01.10515
		€	10	10	10	10	11
Art. 431 Rondella per arresto laterale Washer for workstop		Cod. 2.43.11000	2.43.12000	2.43.13000	2.43.14000	2.43.15000	2.43.16000
		€	10	10	10	10	11
Art. 440 Dado per arresto laterale Nut for workstop		Cod. 2.44.01000	2.44.02000	2.44.03000	2.44.04000	2.44.05000	2.44.06000
		€	10	10	10	10	11
Art. 570 Puntale sferico liscio Smooth spherical point		Cod. 1.57.01000	1.57.03000		1.57.05000		
		€	66	75		86	
Art. 570S Puntale sferico zigrinato Serrated spherical point		Cod. 1.57.0S100	1.57.0S300		1.57.0S500		
		€	66	75		86	

CORPI GANASCE STANDARD / BODIES STANDARD JAWS

Tipo (grandezza) / Vise type (size)	1	2	3	4	5	6	
Art. 300 Corpo ganascia fissa. Larghezza normale Body fixed jaw. Normal width	Cod.	1.35.10000	1.35.20000	1.35.30000	1.35.40000	1.35.50000	1.35.60000
	€	103	142	167	192	272	451
Art. 301 Corpo ganascia fissa. Larghezza ridotta rettificata Body fixed jaw. Normal width ground	Cod.	1.35.10300	1.35.20300	1.35.30300	1.35.40300	1.35.50300	1.35.60300
	€	152	201	240	274	393	636
Art. 303 Corpo ganascia fissa doppia. Larghezza normale Double body fixed jaw. Normal width	Cod.	1.35.10900	1.35.20900	1.35.30900	1.35.40900	1.35.50900	1.35.60900
	€	159	235	285	327	493	759
Art. 304 Corpo ganascia fissa doppia. Larghezza ridotta rettificata Double body fixed jaw. Normal width ground	Cod.	1.35.11200	1.35.21200	1.35.31200	1.35.41200	1.35.51200	1.35.61200
	€	220	324	393	453	678	1.037
Art. 306 Corpo ganascia mobile guidata. Larghezza normale Body guided movable jaw. Normal width	Cod.	1.36.10000	1.36.20000	1.36.30000	1.36.40000	1.36.50000	1.36.60000
	€	103	142	167	192	272	451
Art. 302 Corpo ganascia mobile oscillante. Larghezza normale Body floating movable jaws. Normal width	Cod.	4.30.21000	4.30.22000	4.30.23000	4.30.24000	4.30.25000	4.30.26000
	€	103	142	167	192	272	451
Art. 307 Corpo ganascia mobile guidata. Larghezza ridotta rettificata Body guided movable jaw. Narrow width ground	Cod.	1.36.11000	1.36.21000	1.36.31000	1.36.41000	1.36.51000	1.36.61000
	€	103	142	167	192	272	451
Art. 305 Corpo ganascia mobile guidata per segmenti oscillanti. Larghezza normale Body guided movable jaw for floating elements. Normal width	Cod.	4.30.51000	4.30.52000	4.30.53000	4.30.54000	4.30.55000	4.30.56000
	€	103	142	167	192	272	451
Art. 308 Corpo ganascia mobile oscillante per segmenti oscillanti. Larghezza normale Body floating movable jaw for floating elements. Normal width	Cod.	1.36.10400	1.36.20400	1.36.30400	1.36.40400	1.36.50400	1.36.60400
	€	103	142	167	192	272	451
Art. 309 Corpo ganascia mobile oscillante per segmenti oscillanti. Larghezza ridotta Body floating movable jaw for floating elements. Narrow width	Cod.	1.36.10700	1.36.20700	1.36.30700	1.36.40700	1.36.50700	1.36.60700
	€	103	142	167	192	272	451
Art. 190 Corpo ganascia mobile oscillante guidata con 2 segmenti oscillanti. Larghezza normale Body guided floating movable jaw with 2 floating segments. Normal width	Cod.	2.19.01000	2.19.02000	2.19.03000	2.19.04000	2.19.05000	2.19.06000
	€	228	362	444	526	758	1.098
Art. 191 Corpo ganascia mobile oscillante guidata con 2 segmenti oscillanti. Larghezza ridotta Body guided floating movable jaw with 2 floating segments. Narrow width	Cod.	2.19.11000	2.19.12000	2.19.13000	2.19.14000	2.19.15000	2.19.16000
	€	228	362	444	526	758	1.098

CORPI GANASCE PIANE / BODY - STRAIGHT JAWS

Tipo (grandezza) / Vise type (size)
Art. 315

 Corpo ganascia fissa. **Larghezza normale**
 Body fixed jaw. **Normal width**


Cod.	1	2	3	4	5	6
1.35.11800	1.35.21800	1.35.31800	1.35.41800	1.35.51800	1.35.61800	
€	103	142	167	192	272	451

Art. 316

 Corpo ganascia fissa. **Larghezza ridotta rettificata**
 Body fixed jaw. **Narrow width ground**

Cod.	1	2	3	4	5	6
1.35.12100	1.35.22100	1.35.32100	1.35.42100	1.35.52100	1.35.62100	
€	152	201	240	274	393	636

Art. 318

 Corpo ganascia fissa doppia. **Larghezza normale**
 Double body fixed jaw. **Normal width**


Cod.	1	2	3	4	5	6
1.35.12700	1.35.22700	1.35.32700	1.35.42700	1.35.52700	1.35.62700	
€	159	235	285	327	493	759

Art. 319

 Corpo ganascia fissa doppia. **Larghezza ridotta rettificata**
 Double body fixed jaw. **Narrow width ground**

Cod.	1	2	3	4	5	6
1.35.13000	1.35.23000	1.35.33000	1.35.43000	1.35.53000	1.35.63000	
€	220	324	393	453	678	1.037

Art. 321

 Corpo ganascia mobile guidata. **Larghezza normale**
 Body guided movable jaw. **Normal width**


Cod.	1	2	3	4	5	6
1.36.11600	1.36.21600	1.36.31600	1.36.41600	1.36.51600	1.36.61600	
€	103	142	167	192	272	451

Art. 322

 Corpo ganascia mobile guidata. **Larghezza ridotta rettificata**
 Body guided movable jaw. **Narrow width ground**

Cod.	1	2	3	4	5	6
1.36.12200	1.36.22200	1.36.32200	1.36.42200	1.36.52200	1.36.62200	
€	103	142	167	192	272	451

Art. 323

 Corpo ganascia mobile oscillante. **Larghezza normale**
 Body floating movable jaw. **Normal width**


Cod.	1	2	3	4	5	6
1.36.11300	1.36.21300	1.36.31300	1.36.41300	1.36.51300	1.36.61300	
€	103	142	167	192	272	451

Art. 324

 Corpo ganascia mobile oscillante. **Larghezza ridotta rettificata**
 Body floating movable jaw. **Narrow width ground**

Cod.	1	2	3	4	5	6
1.36.11900	1.36.21900	1.36.31900	1.36.41900	1.36.51900	1.36.61900	
€	103	142	167	192	272	451

CORPI GANASCE PER PIASTRE INTERCAMBIABILI MANUALMENTE JAW BODIES FOR QUICK INTRCHANGEABLE JAW PLATES

Art. 300A

 Corpo ganascia fissa
 Fixed jaw body


Cod.	1	2	3	4	5	6
1.30.0A100	1.30.0A200	1.30.0A300	1.30.0A400	1.30.0A500	1.30.0A600	
€	114	160	192	213	308	520

Art. 303A

 Corpo ganascia fissa doppia
 Double fixed jaw body

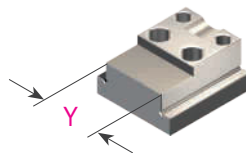

Cod.	1	2	3	4	5	6
1.30.3A100	1.30.3A200	1.30.3A300	1.30.3A400	1.30.3A500	1.30.3A600	
€	186	283	343	392	592	920

Art. 306A

 Corpo ganascia mobile guidata
 Guided movable jaw body

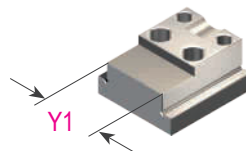

Cod.	1	2	3	4	5	6
1.30.6A100	1.30.6A200	1.30.6A300	1.30.6A400	1.30.6A500	1.30.6A600	
€	114	160	192	213	308	520

Art. 306B

 Pattino per ganasce mobili guidate
 Sliding plate for guided movable jaw


Cod.	1	2	3	4	5	6
1.30.6B100	1.30.6B200	1.30.6B300	1.30.6B400	1.30.6B500	1.30.6B600	
€	60	77	92	96	146	164

Art. 306C

 Pattino per ganasce mobili oscillanti
 Sliding plate for floating movable jaw


Cod.	1	2	3	4	5	6
1.30.6C100	1.30.6C200	1.30.6C300	1.30.6C400	1.30.6C500	1.30.6C600	
€	60	77	92	96	146	164

Y1 = Y - 1mm

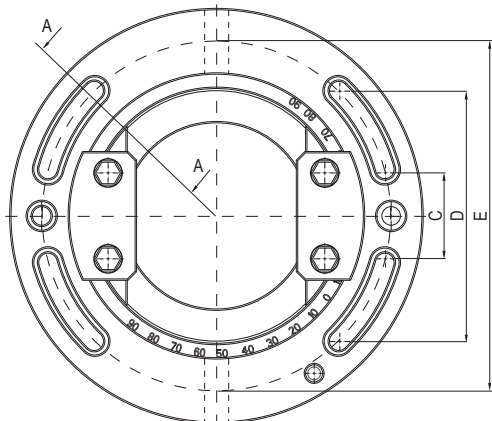
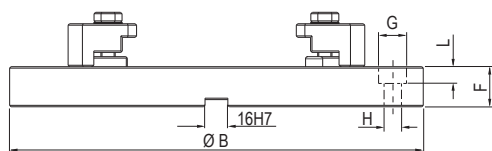
GRUPPI PREASSEMBLATI / PRE-ASSEMBLED GROUP

Tipo (grandezza) / Vise type (size)	1	2	3	4	5	6
Art. 105 Base girevole Swivel base						
Ø B	180	225	290	320	370	400
C	50	52	65	80	94	116
D	112	146	175	200	220	240
E	155	195	245	272	310	340
F	20	23	28	28	34	38
G	11	14	20	20	25	25
H	6,5	8,5	12,5	12,5	17	17
L	7	10	13	13	17	17
M	12	14	20	20	26	26
N	10	13	16	16	20	20
O	6,5	8,5	12,5	12,5	16,5	16,5
kg	3,3	5,5	10,8	13	21	25,3
Cod.	2.10.51000	2.10.52000	2.10.53000	2.10.54000	2.10.55000	2.10.56000
€	396	453	538	591	854	1.064

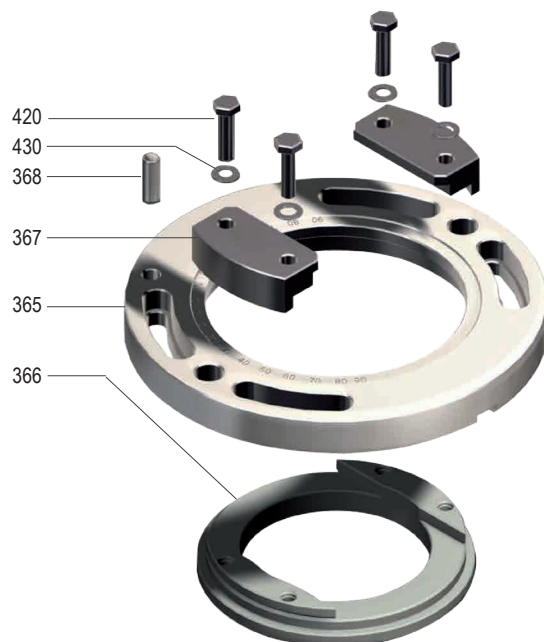
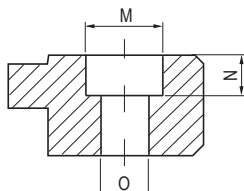
Art. 105 - Senza alcuna dotazione
 Art. 105 - Supplied without accessory equipment

Art. 365 Anello esterno per base girevole Outer ring swivel base						
Cod.	1.81.11000	1.81.21000	1.81.31000	1.81.41000	1.81.51000	1.81.61000
€	370	423	501	549	800	998
Art. 366 Anello interno per base girevole Inner ring swivel base						
Cod.	1.81.12000	1.81.22000	1.81.32000	1.81.42000	1.81.52000	1.81.62000
€	180	204	245	263	384	478
Art. 367 Staffa per base girevole Clamp swivel base						
Cod.	1.84.10000	1.84.20000	1.84.30000	1.84.40000	1.84.50000	1.84.60000
€	53	53	64	64	74	74
Art. 368 Spina cilindrica per base girevole Straight pin swivel base						
Cod.	0.80.11000	0.80.21000	0.80.31000	0.80.41000	0.80.51000	0.80.61000
€	10	10	12	12	12	15
Art. 420 Vite esagonale per base girevole Bolt swivel base						
Cod.	0.05.08035	0.05.10035	0.05.10040	0.05.12050	0.05.14060	0.05.14060
€	8	8	8	9	9	9
Art. 430 Rondella per base girevole Washer swivel base						
Cod.	0.75.18416	0.75.11052	0.75.11052	0.75.11325	0.75.11525	0.75.11525
€	8	8	8	8	8	8

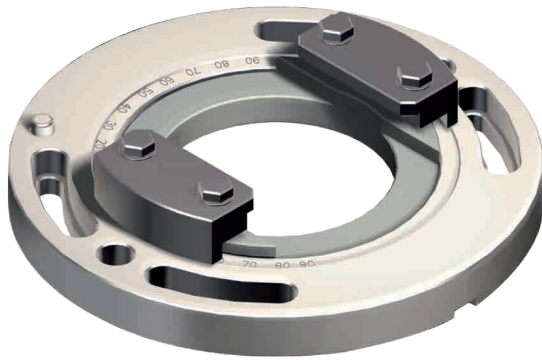
Art. 105 Base girevole / Swivel base
 (Art. 365 + 366 + 367 + 368 + 420 + 430)



Sezione / Section "A-A"

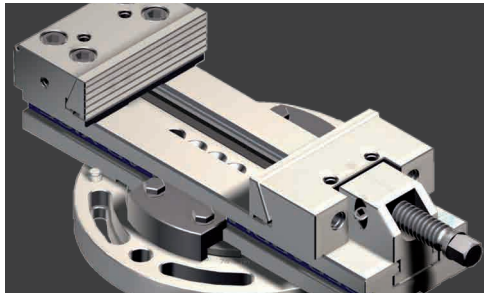


GRUPPI PREASSEMBLATI / PRE-ASSEMBLED GROUP



Art. 105
Art. 105

Base girevole
Swivel base



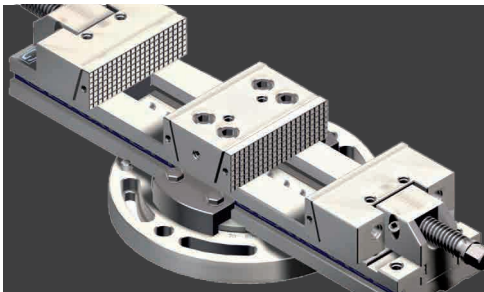
Art. 2
Art. 2

Morsa STD Art. 1 + Base girevole Art.105
Art. 1 STD vise + Swivel base Art.105

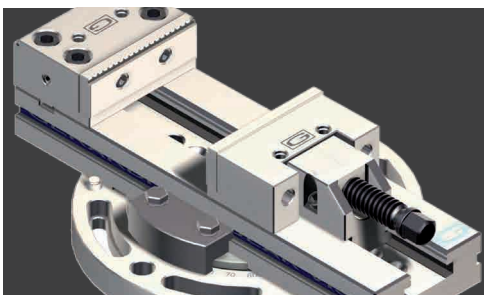


Art. 2
Art. 2

Morsa STD Art. 1 + Base girevole Art.105
Art. 1 STD vise + Swivel base Art.105



Morsa XL Art. 30A + Base girevole Art.105
Art. 30A XL vise + Swivel base Art. 105



Morsa STD Art. 15 + Base girevole Art.105
Art. 15 STD vise + Swivel base Art.105



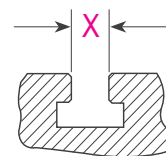
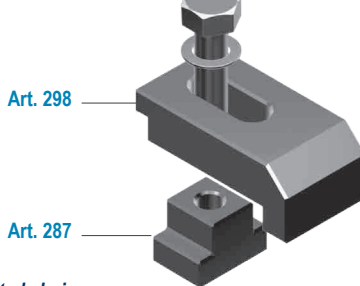
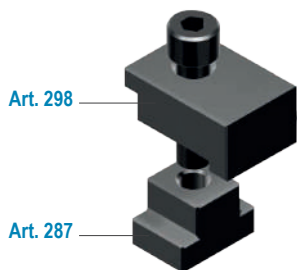
Art. 2A
Art. 2A

Morsa STD Art. 1A + Base girevole Art.105
Art. 1A STD vise + Swivel base Art.105

STAFFE DI ANCORAGGIO PER MORSE / VISE HOLDING CLAMPING

Art. 296

Coppia di staffe Art. 298 complete di vite e dado a T (Art. 287) / Pair of vise holding clamps Art. 298 complete of screws and T nuts (Art. 287)



Specificare sempre la cava della vostra macchina

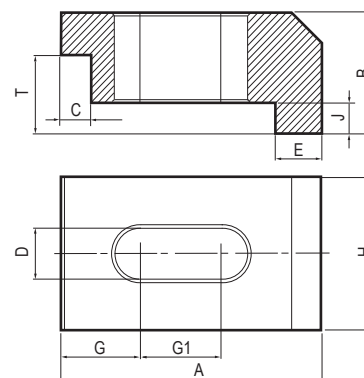
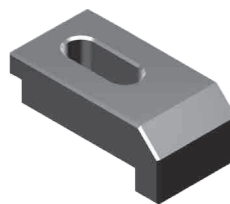
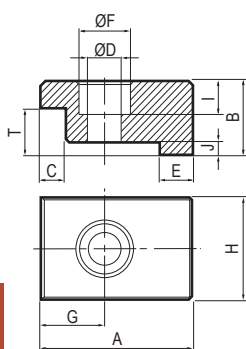
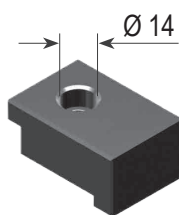
Always specify the machine T-slot dimension

* Scelta consigliata - Suggested choice

Morse / Vises	Tipo (grandezza) morse / Vise (type) size							
STD	1	1 - 2			3 - 4		5 - 6	
FMS	1	1			2 - 3		4 - 5 - 6	
MULTIFLEX	1	1			2 - 3		-	
MULTITASKING	-	3			-		-	
COMPACT GRIP	-	1 - 2 - 3			-		-	
GRIPMATIC	-	2 - 3 - 4			-		-	
Staffe / Holding Clamps	M8	M10	M12 *	M16	M12 *	M16	M12	M16 *
Cod.	2.29.61000 / M8	2.29.61000 / M10	2.29.61000 / M12	2.29.61000 / M16	2.29.63000 / M12	2.29.63000 / M16	2.29.65000 / M12	2.29.65000 / M16
€	45	45	45	45	56	56	88	88

Art. 298

Staffe di ancoraggio per morse (Venduta singolarmente) / Vise holding clamps (Single)


 Solo per tipo 1 x M8
 Only for type 1 x M8

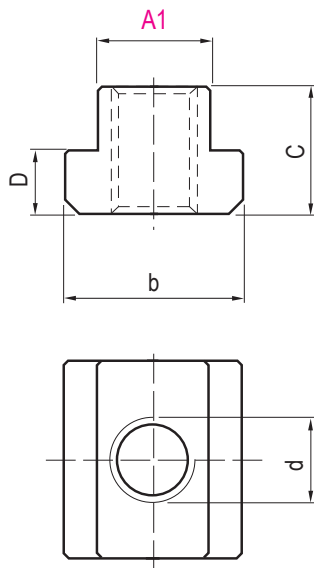
* Scelta consigliata - Suggested choice

Morse / Vises	Tipo (grandezza) morse / Vise (type) size							
STD	1	1 - 2			3 - 4		5 - 6	
FMS	1	1			2 - 3 - 4		5 - 6	
MULTIFLEX	1	1			2 - 3		-	
MULTITASKING	-	3			-		-	
COMPACT GRIP	-	1 - 2 - 3			-		-	
GRIPMATIC	-	2 - 3 - 4			-		-	
Staffe / Holding Clamps	M8	M10	M12 *	M16	M12 *	M16	M12	M16 *
A	50	50	50	50	76	76	86	86
B	24	24	24	24	30	30	40	40
C	6	6	6	6	6	6	10	10
ØD	8,5	11	13	17	13	17	13	17
E	10	10	10	10	13	13	15	15
ØF	14	-	-	-	-	-	-	-
G / G1	17	16 / 15	17,5 / 13	19 / 9	17 / 22	16 / 15	26 / 27	26 / 27
H	34	34	34	34	42	42	50	50
I	8	10	10	10	-	-	-	-
J	4	4	4	4	10	10	10	10
T ±0,1	15	15	15	15	20	20	26	26
Cod.	2.29.81000 / M8	2.29.81000 / M10	2.29.81000 / M12	2.29.81000 / M16	2.29.83000 / M12	2.29.83000 / M16	2.29.85000 / M12	2.29.85000 / M16
€	17	17	17	17	22	22	34	34

Art. 287

 Dadi per cave a T
 Nuts for T slots

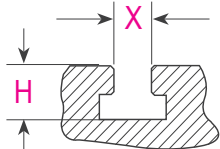
DIN 508


 In fase d'ordine,
 completare il codice
 specificando il
 numero **N** di dado a T

 In the purchase order
 specify the **N** number
 of the **T** nut in the code

Esempio / Example
 Cod. 2.28.74000 / 24

DIN 650


 Specificare sempre la cava
 della vostra macchina

 Always specify
 the machine T-slot dimension

N	d	A1	b	C	D	N	d	A1	b	C	D
01	M5 x 6	5,7	40	8	4	31	M14 x 24	23,7	40	32	16
02	M5 x 8	7,7	13	10	5	32	M16 x 18	17,7	28	20	10
03	M5 x 10	9,7	15	12	6	33	M16 x 20	19,7	32	24	12
04	M6 x 8	7,7	13	10	5	34	M16 x 22	21,7	35	28	14
05	M6 x 10	9,7	15	12	6	35	M16 x 24	23,7	40	32	16
06	M6 x 12	11,7	18	14	7	36	M16 x 28	27,7	44	36	18
07	M8 x 10	9,7	15	12	6	37	M16 x 30	29,7	48	38	19
08	M8 x 12	11,7	18	14	7	38	M16 x 36	35,6	54	44	22
09	M8 x 14	13,7	22	16	8	39	M18 x 20	19,7	32	24	12
10	M8 x 16	15,7	25	18	9	40	M18 x 22	21,7	35	28	14
11	M8 x 18	17,7	28	20	10	41	M18 x 24	23,7	40	32	16
12	M10 x 12	11,7	18	14	7	42	M18 x 28	27,7	44	36	18
13	M10 x 14	13,7	22	16	8	43	M18 x 30	29,7	48	38	19
14	M10 x 16	15,7	25	18	9	44	M18 x 36	35,6	54	44	22
15	M10 x 18	17,7	28	20	10	45	M20 x 22	21,7	35	28	14
16	M10 x 20	19,7	32	24	12	46	M20 x 24	23,7	40	32	16
17	M10 x 22	21,7	35	28	14	47	M20 x 28	27,7	44	36	18
18	M10 x 24	23,7	40	32	16	48	M20 x 30	29,7	48	38	19
19	M12 x 14	13,7	22	16	8	49	M20 x 36	35,6	54	44	22
20	M12 x 16	15,7	25	18	9	50	M20 x 42	41,6	65	52	26
21	M12 x 18	17,3	28	20	10	54	M20 x 48	47,6	75	60	30
22	M12 x 20	19,7	32	24	12	52	M24 x 28	27,7	44	36	18
23	M12 x 22	21,7	35	28	14	53	M24 x 30	29,7	48	38	19
24	M12 x 24	23,7	40	32	16	54	M24 x 36	35,6	54	44	22
25	M12 x 28	27,7	44	36	18	55	M24 x 42	41,6	65	52	26
26	M12 x 30	29,7	48	38	19	56	M24 x 48	47,6	75	60	30
27	M14 x 16	15,7	25	18	9	57	M30 x 36	35,6	54	44	22
28	M14 x 18	17,7	28	20	10	58	M30 x 42	41,6	65	52	26
29	M14 x 20	19,7	32	24	12	59	M30 x 48	47,6	75	60	30
30	M14 x 22	21,7	35	28	14	60	M30 x 54	53,6	85	70	35

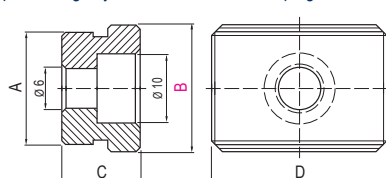
~~Scelta NON consigliata - NOT Suggested choice~~

X	0 ÷ 22	23 ÷ 36	37 ÷ 54
Cod.	2.28.72000 / N	2.28.740000 / N	2.28.76000 / N
€	18	30	58

Tipo (grandezza) morsa / Vise type (size)


1 **2** **3** **4** **5** **6**

Art. 297

 Coppia di tasselli di posizionamento completi di vite M5 x 10 / **Specificare sempre quota B**
 Pair of positioning key-nuts with M5 x 10 clamping screw / **Specify always B dimension**

 Altri tipi e misure
 fornibili a richiesta
 Other types and dimensions
 available on request

A	16									
B	10	12	14	16	18	20	22	24	28	36
C	10	10	10	10	10	12	12	12	12	12
D	25									
Cod.	2.29.71000									
€	34									

ATTREZZI e DOTAZIONI / TOOLS and EQUIPMENT

Tipo (grandezza) morsa / Vise type (size)		1	2	3	4	5	6	
Art. 291 Tappo incavo per alloggiamento sfera <i>solo per Art.1A</i> Concave cap for sphere <i>only for Art.1A</i>		Ø	13,2	20,8	20,8	25,8	25,8	25,8
		Cod.	1.29.11000	1.29.12000	1.29.13000	1.29.14000	1.29.15000	1.29.16000
		€	8	8	8	8	8	8

Art. 325 Chiave esagonale a bussola Hexagon bushing		CH	14 - 16 - 17 - 18 - 19 - 21 - 22	24 - 27 - 30 - 32
		Cod.	0.09.325CH	0.09.325CH
		€	49	63

Tipo (grandezza) morsa / Vise type (size)		0	1	2	3	4	5	6
Art. 370 Arresto laterale completo Complete workstop	Vite / Screw	M	10		12		16	
	Staffa / Bracket	mm	90x30x15		120x30x15		160x40x25	
	Morse Standard / FMS Standard / FMS Vises	Cod.	-	2.37.01000	2.37.03000	2.37.05000		
	€	-	25	30	46			



Morse Multitasking Multitasking Vises	Vite / Screw	M	6	8	10			
	Staffa / Bracket	mm	42x14x8	60x18x12	90x30x15			
	Cod.	-	7.37.01000	7.37.02000	2.37.01000	-	-	-
	€	-	-	-	31	-	-	-

Morse Multiflex Multiflex Vises	Vite / Screw	M	10	10				
	Staffa / Bracket	mm	60x20x12	90x30x15				
	Cod.	-	6.37.01000	2.37.01000	-	-	-	-
	€	-	-	31	-	-	-	-

Art. 666I Arresto laterale morsa OK Workstop for OK vises	Perno / Pin	M	5	6	6	6	8	8	-
	Staffa / Bracket	mm	40x16x12	55x16x12	70x20x14	70x20x14	-	90x20x18	-
	Morse OK OK Vises	Cod.	7.66.61000	7.66.61100	7.66.61200	7.66.61300	7.66.61400	7.66.61500	-
	€	-	-	-	-	-	-	-	-



Art. 370EM Arresto laterale magnetico Magnetic workstop	Perno / Pin	Ø	5	6				
	Staffa / Bracket	mm	30x14x8	45x20x10				
	Morse CompactGRIP CompactGRIP Vises	Cod.	-	7.37.01000EM	7.37.02000EM	-	-	-
	€	-	67	75	-	-	-	



Tipo (grandezza) morsa / Vise type (size)		1		2		3		4		5		6	
		CH	B	CH	B	CH	B	CH	B	CH	B	CH	B
Art. 375 Chiave a pipa Box wrench	Morse Standard / Standard Vises	12	160	19	250	22	300	22	300	30	450	30	450
	Cod.	4.37.512160	4.37.519250	4.37.522300	4.37.522300	4.37.530450	4.37.530450						
	€	31	31	36	36	62	62						
Morse FMS / FMS Vises		16	250	16	250	19	250	19	250	27	250	27	250
	Cod.	4.37.516250	4.37.516250	4.37.519250	4.37.519250	4.37.519250	4.37.519250						
	€	31	31	31	31	31	31						
Vedi pag. 5.61 See pag. 5.61													
Morse Multitasking / Multitasking Vises		12	160	16	250	16	250	-	-	-	-	-	-
	Cod.	4.37.512160	4.37.516250	4.37.516250									
	€	31	31	31	-	-	-	-	-	-	-	-	-
Vedi pag. 7.29 See pag. 7.29													
Morse CompactGrip - MaxiGrip / CompactGrip - MaxiGrip Vises		10	160	12	160	16	250	17	280	-	-	-	-
	Cod.	4.37.510160	4.37.512160	4.37.516250	4.37.517280								
	€	31	31	36	31	-	-	-	-	-	-	-	-
Vedi pag. 7.29 See pag. 7.29													

Art. 376 Chiave a T T wrench	CH	4	5	6	10
	Cod.	0.09.21400	0.09.22500	0.09.23600	0.09.25100
	€	17	18	21	



Art. 377 Chiave esagonale serie lunga Hexagon wrench long reach	CH	2	2,5	3	3,5	4	4,5
	Cod.	0.09.37702	0.09.37725	0.09.37703	0.09.37735	0.09.37704	0.09.37745
	€	10	10	10	10	10	10
CH	5	6	7	8	9	10	
	Cod.	0.09.37705	0.09.37706	0.09.37707	0.09.37708	0.09.37709	0.09.37710
	€	11	11	11	12	12	13
CH	12	13	14	17	19	-	
	Cod.	0.09.37712	0.09.37713	0.09.37714	0.09.37717	0.09.37719	-
	€	14	18	20	25	37	-



Tipo (grandezza) morsa / Vise type (size)		1	2	3
Art. 357 Chiave dinamometrica digitale a cricchetto con attacco 1/2" Torque wrench digital ratchet type with hexagon with 1/2" driver square	Nm	10÷135	20÷200	34÷340
	Cod.	2.35.71000	2.35.72000	2.35.73000
	€	205	238	318



DISPOSITIVI MECCANICI / MECHANICAL BLOCKING DEVICES

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 258						
kg	0,4	1	1,9	2,9	5,3	7,8
Cod.	2.25.81000	2.25.82000	2.25.83000	2.25.84000	2.25.85000	2.25.86000
€	160	188	228	257	319	476

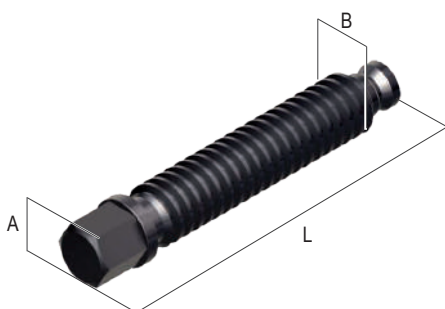
Art. 258
 Gruppo di serraggio meccanico completo senza accessori
 Mechanical clamping device complete No accessories



Per le forze di serraggio vedi pag. 4.00
 For clamping force see page 4.00

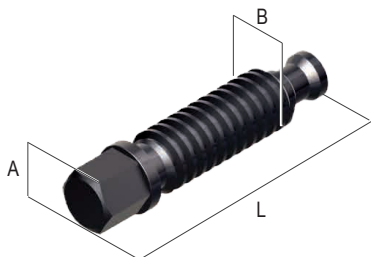
RICAMBI / SPARE PARTS

Art. 360
 Vite di spinta. Normale
 Clamping bolt. Normal



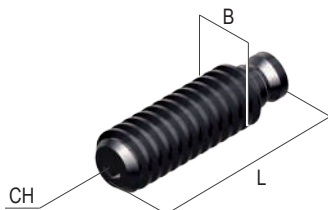
A	12	19	22	30
B	M12	TPN 18 x 4	TPN 24 x 5	TPN 30 x 5
L	100	130	150	190
Cod.	1.90.10144	1.90.20184	1.90.30245	1.90.50366
€	49	66	79	111

Art. 355
 Vite di spinta. Ridotta
 Clamping bolt. Short



A	12	19	22	30
B	M12	TPN 18 x 4	TPN 24 x 5	TPN 30 x 5
L	90	100	115	150
Cod.	1.90.14144	1.90.24184	1.90.34245	1.90.54366
€	49	66	79	111

Art. 356
 Vite di spinta. Super ridotta
 Clamping bolt. Super short



CH	6	8	10	12
B	M12	TPN 18 x 4	TPN 24 x 5	TPN 30 x 5
L	53	73	81	113
Cod.	1.35.61000	1.35.62000	1.35.60003	1.35.60005
€	49	66	79	111

Art. 282A
 Supporto di serraggio meccanico
 Mechanical clamping device support



Cod.	2.28.2A100	2.28.2A200	2.28.2A300	2.28.2A400	2.28.2A500	2.28.2A600
€	128	133	160	188	215	372

Art. 410
 Grano
 Setscrew



Cod.	0.06.20810	0.06.21012	0.06.21216	0.06.21620	0.06.21630	0.06.31360
	M8 x 20	M10 x 25	M12 x 30	M12 x 40	M20 x 50	M20 x 50
	CH. 3	CH. 5	CH. 6	CH. 6	CH. 10	CH. 10
€	10	10	12	12	13	13

Art. 361
 Sfera
 Ball



Cod.	1.36.11001	1.36.12002	1.36.13003	1.36.14004	1.36.15005	1.36.16006
	9/16"	3/4"	7/8"	7/8"	1 1/8"	1 1/8"
€	12	13	14	14	18	18

SERVOCOMANDI OLEODINAMICI / HYDRAULIC SERVO UNITS

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 257 Gruppo di serraggio a vite idraulica (Autonomo) Hydraulic hand screw clamping device (Self contained)						
Cod.	-	2.25.73000	2.25.74000	2.25.75000	2.25.76000	
€	-	748	799	976	1.020	
Art. 284A Supporto di serraggio per mandrino a vite idraulica Clamping support for hydraulic spindle						
Cod.	-	2.28.4A300	2.28.4A400	2.28.4A500	2.28.4A600	
€	-	235	285	420	463	
Art. 286 Mandrino a vite idraulica Hydraulic spindle						
Kn	-	12	20			
A	-	420	359			
Cod.	-	4.28.63000	4.28.65000			
€	-	517	561			
Art. 295 Gruppo di serraggio a vite idraulica compatto Compact hydraulic hand screw clamping device						
Cod.	-	4.29.53000	4.29.54000	-	-	
€	-	587	635	881	-	
Art. 294A Supporto di serraggio per mandrino compatto a vite idraulica Clamping support for compact hydraulic spindle						
Cod.	-	4.29.4A300	4.29.4A400	-	-	
€	-	235	284	340	-	
Art. 293 Mandrino compatto a vite idraulica Compact hydraulic spindle						
Kn	-	10	-			
A	-	173				
Cod.	-	4.29.33000	-	-		
€	-	354	577	-		
Art. 290 Manovella per mandrino a vite idraulica Crank hydraulic spindle						
Cod.	-	4.29.03000\M12				
€	-	63				
Art. 292 Prolunga per Art. 290 Extension for Art. 290						
A	160 / 260					
Cod.	-	4.29.23000				
€	-	47				

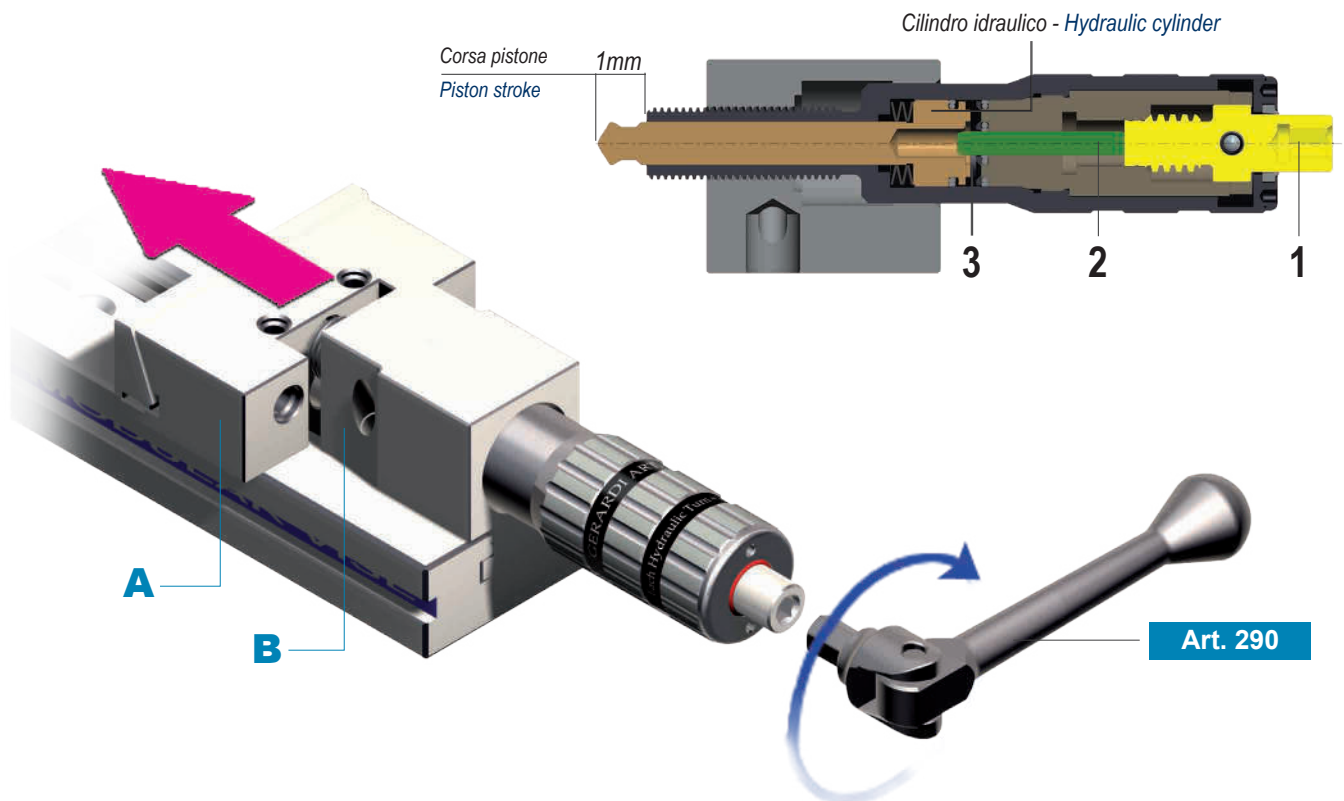
METODI ALTERNATIVI DI SERRAGGIO

ALTERNATIVE CLAMPING OPTION

Il gruppo di serraggio a vite idraulica, è un moltiplicatore di forza manuale alternativo al gruppo di serraggio meccanico **Art. 258**; Tale dispositivo consente di applicare la medesima forza di serraggio della vite manuale con uno sforzo minore. Il mandrino a vite idraulica è azionato manualmente tramite l'apposita manovella in dotazione **Art. 290**.

Verificare che il vano tra ganasce mobile **A** e supporto vite **B** sia pulito, in modo che il mandrino idraulico possa scorrere liberamente senza impedimenti che potrebbero causare attriti e di conseguenza minor forza di serraggio.

Ruotare in senso orario il mandrino utilizzando la manovella in dotazione **Art. 290**, muovendo la ganasce mobile **A** in avanti fino al contatto con il pezzo da serrare. Un' ulteriore rotazione farà scattare la frizione e di conseguenza da quel momento inizia la forza di spinta idraulica e mentre il mandrino rimane fermo, avanza la vite **1** che spinge lo stantuffo **2** nella camera d'olio **3** generando pressione. Dopo il prearico meccanico **ogni giro di manovella genera una forza K** e **quando il mandrino arriva in battuta, sviluppa la massima forza possibile**.



ATTENZIONE !

Quando il mandrino arriva in battuta, una ulteriore pressione sviluppata sulla manovella (Art. 290) potrebbe danneggiare in modo irreparabile il moltiplicatore.

ATTENTION !

When the spindle reach the end of his stroke, a further pressure on the wrench (Art. 290) can seriously damage the pressure multiplier

The hand hydraulic clamping group is a manual power multiplier alternative to the mechanical clamping group **Art.258**. This device allows to reach the same clamping power reachable with the mechanical screw through a minimum effort. The hand hydraulic screw is manually operated by the proper wrench **Art.290**. Make sure that space between the movable jaw **A** and the main spindle support **B** is clean so that the hydraulic spindle can move freely without chips inside causing frictions and consequently less clamping power.

Turn clockwise the spindle using the wrench **Art. 290** supplied in the standard equipment until the movable jaw **A** touches workpiece. A further rotation will start the power multiplier action; at every spindle turn an increasing clamping power will be applied to the workpiece. A further rotation will make the crank slip and the hydraulic power will start. The hydraulic spindle will stop turning but the screw **1** will move forward to push the small piston **2** into the oil chamber **3** creating an overpressure and obviously clamping force. After the mechanical pre-loading **each turn of the wrench produce a K force** and **when the spindle reaches the end of its possible run it reaches its max possible power**.

Diagrammi di serraggio / Clamping diagrams

Gruppi di serraggio idraulici Hydraulic clamping devices

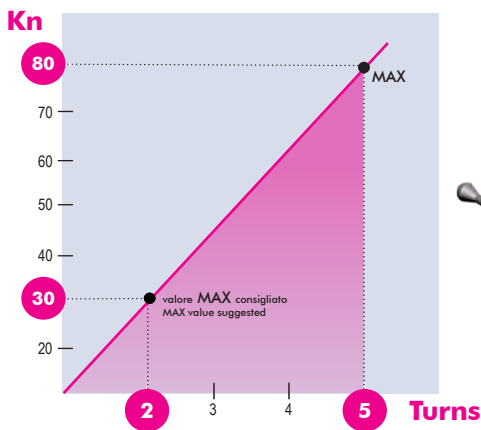
Diagrammi di serraggio meccanico con vite idraulica

Mechanical clamping diagrams with hydraulic hand screw

Morse tipo
Vises type

3-4

Autonomo - Self Contained

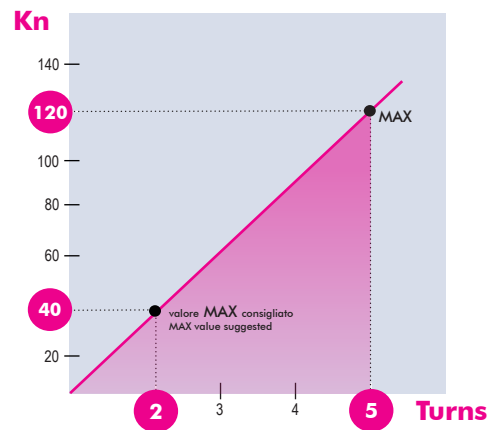


Art. 257

Morse tipo
Vises type

5-6

Autonomo - Self Contained



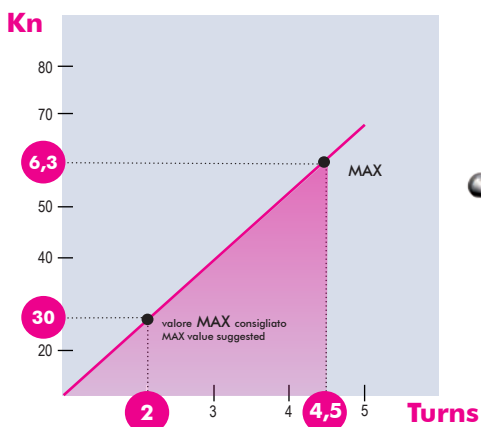
Gruppi di serraggio meccanici (Art.257 - Art.295) / Mechanical clamping devices (Art.257 - Art.295)

I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con i seguenti gruppi di serraggio idraulici (da 1 a 6), in funzione dei giri applicati
The following diagrams give the clamping force that can be obtained with each hydraulic clamping devices type (size 1 to 6) depending on the turns

Morse tipo
Vises type

3-4

Compatto - Compact



Art. 295

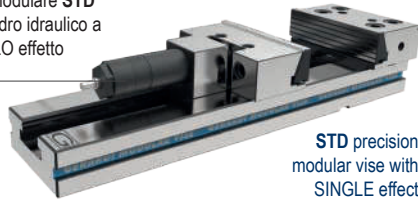
MORSE StandardMatic

Tipo (grandezza) morsa / Vise type (size)	kN	1		2		3		4	
		16 kN	25 kN	30 kN	30 kN	30 kN	30 kN	30 kN	
Apertura massima / Maximum spread	A	100	150	200	300	200	300	400	500
	W	100	125	150		175			
	B	30	40	50		60			
	C	35	40	50		58			
	D	270	345	420	520	455	555	655	755
	G	75	95	125		145			
	X	78	103,5	98		78			
	kg	6.8	12.9	25.5	29	37	42	47	52
	Cod.	1.1E.10000	1.1E.20000	1.1E.32000	1.1E.33000	1.1E.42000	1.1E.43000	1.1E.44000	1.1E.45000
	€	934	1.014	1.103	1.238	1.481	1.549	1.685	1.957

Art. 1E
NEW 2024

 Morsa modulare STD
 con cilindro idraulico a
 SINGOLO effetto

Art.271


 STD precision
 modular vise with
 SINGLE effect
 hydraulic cylinder

Art. 393

MAX 450bar

 Centralina a comando
 manuale **singolo effetto**
 Single effect power unit
 with manual control


Cod. 4.39.34500

 € **1.278**
Art. 394

MAX 450bar

 Centralina a comando
 pneumatico remoto **singolo effetto**
 Single effect power unit
 with remote pneumatic control


Per azionare la centralina è consigliato l'uso dell' ART.402 (vedi pag.4.52)

Cod. 4.39.44500

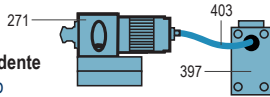
 € **1.278**
Art. 395

MAX 450bar

 Centralina a comando
 elettrico **singolo effetto**
 Single effect power unit
 with electrical control


Cod. 4.39.54500

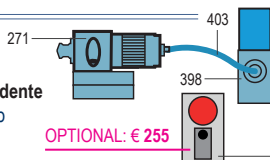
 € **1.426**
Art. 407

 Gruppo di serraggio **indipendente**
 Independent clamping group


Le corse del pistone sono disponibili a pagina 4.54

Cod. 4.40.71000 4.40.72000 4.40.73000 4.40.74000

 € **783 793 804 840**
MANUAL CONTROL
Art. 407A

 Gruppo di serraggio **indipendente**
 Independent clamping group


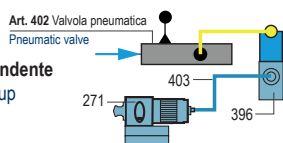
Le corse del pistone sono disponibili a pagina 4.54

Cod. 4.40.7A100 4.40.7A200 4.40.7A300 4.40.7A400

 € **980 992 1.005 1.040**
CNC CONTROL

Art. 401 Pulsantiera / Puschbutton board

Art. 407B

 Gruppo di serraggio **indipendente**
 Independent clamping group


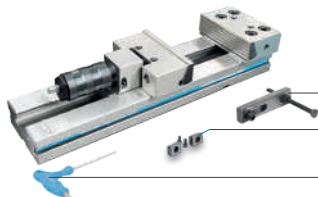
Cod. 4.40.7B100 4.40.7B200 4.40.7B300 4.40.7B400

 € **903 913 924 961**
AIR CONTROL

Dotazione standard:

- 1 arresto laterale Art. 370
- 1 coppia di tasselli di posizionamento Art. 297 (Standard per cava da 16 mm; altre dimensioni a richiesta senza variazione di prezzo)
- 1 chiave a "T" Art. 376

Extra per ogni foro calibrato (tolleranza F7): € 102,00 - Extra per ogni chiave a T (tolleranza H7): € 227,00


Art. 1E

Art. 370

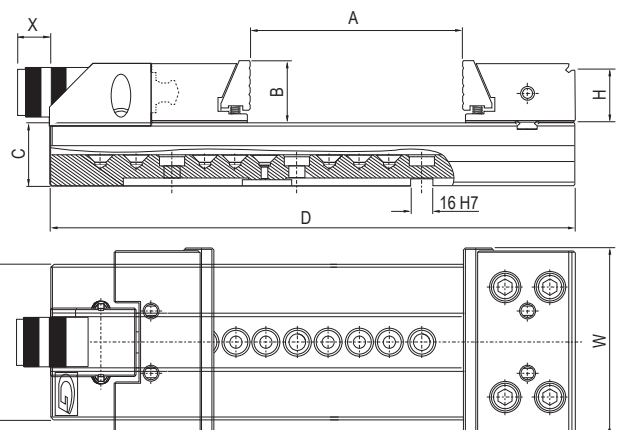
Art. 297

Art. 376

Standard equipment:

- 1 workstop Art. 370
- 1 pair of positioning key-nuts Art. 297 (Standard for 16 mm slot. Other dimensions available on request without price change)
- 1 T-wrench Art. 376

Extra charge for each calibrated hole (F7 tolerance): € 102,00 - Extra charge for each calibrated key nut (F7 tolerance): € 227,00


ESEMPIO D'ORDINE PER KIT COMPLETO: Art.1E (Morsa) + Art.393 (centralina a comando manuale) + Art.403 (tubo 1,5M)
COMPLETE KIT ORDER EXAMPLE: Art.1E (Vise) + Art.393 (power unit with manual control) + Art.403 (pipe 1,5M)

StandardMatic VISES

5 40 kN						6 40 kN						
A	200	300	400	500	600	200	300	400	500	600	700	800
W			200						300			
B			65						80			
C			70						78			
D	495	595	695	795	895	535	635	735	835	935	1035	1135
G			170						195			
X			64						43,5			
kg	64	69	74	79	84	95	105	115	125	135	145	155
Cod.	1.1E.52000	1.1E.53000	1.1E.54000	1.1E.55000	1.1E.56000	1.1E.62000	1.1E.63000	1.1E.64000	1.1E.65000	1.1E.66000	1.1E.67000	1.1E.68000
€	1.887	2.161	2.435	2.846	3.256	2.617	3.164	3.712	4.123	4.531	4.941	5.351

4.39.34500	Art. 393	1.278		4.39.34500	1.278	MANUAL CONTROL
Suggest the ART.402 (see pag.4.52) to use power unit						
4.39.44500	Art. 394	1.278		4.39.44500	1.278	AIR CONTROL
4.39.54500	Art. 395	1.426		4.39.54500	1.426	CNC CONTROL

Piston strokes are available at page 4.54

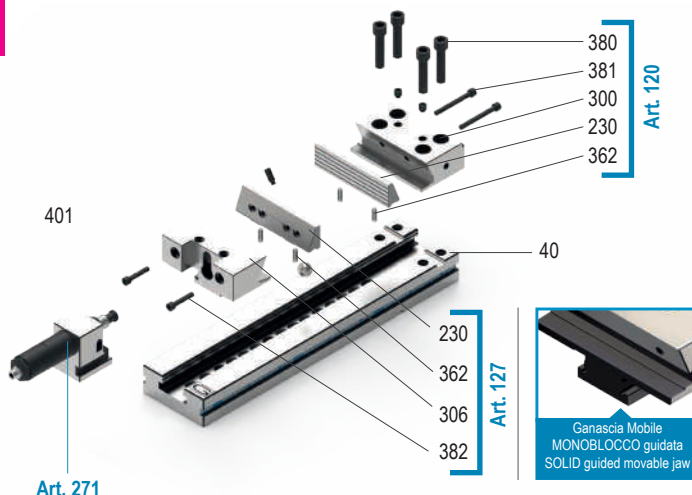
4.40.75000	Art. 407	1.036	4.40.76000	1.150	MANUAL CONTROL
------------	-----------------	--------------	------------	--------------	----------------

Piston strokes are available at page 4.54

4.40.7A500	Art. 407A	1.232	4.40.7A600	1.347	CNC CONTROL
------------	------------------	--------------	------------	--------------	-------------

4.40.7B500	Art. 407B	1.154	4.40.7B600	1.267
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 Pneumo-hydraulic servo units (complete of hydraulic cylinder + support) for multiple clamping *simultaneous* or *independent*, from 2 to 6 vises. See from page 4.38 to 4.49

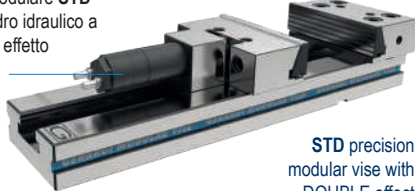
Art. 1E


Art.	Pag.
40	1.24
230	4.9
271	4.54
300	4.29
306	4.29
362	4.28
380	4.28
381	4.28
382	4.28

MORSE StandardMatic

Tipo (grandezza) morsa / Vise type (size)	kN	1		2		3		4	
		16 kN	25 kN	30 kN	30 kN	30 kN	30 kN	30 kN	
Apertura massima / Maximum spread	A	100	150	200	300	200	300	400	500
	W	100	125	150		175			
	B	30	40	50		60			
	C	35	40	50		58			
	D	270	345	420	520	455	555	655	755
	G	75	95	125		145			
	X	78	103,5	98		78			
	kg	6.8	12.9	25.5	29	37	42	47	52
	Cod.	1.1F.10000	1.1F.20000	1.1F.32000	1.1F.33000	1.1F.42000	1.1F.43000	1.1F.44000	1.1F.45000
	€	1.023	1.321	1.424	1.560	1.802	1.869	2.005	2.278

Art. 1F
NEW 2024

 Morsa modulare STD
 con cilindro idraulico a
 DOPPIO effetto
 Art.271D

 STD precision
 modular vise with
 DOUBLE effect
 hydraulic cylinder

Art. 393D

MAX 450bar

 Centralina a comando
 manuale **doppio effetto**
 Double effect power unit
 with manual control


Cod. 4.39.3D450

 € **1.509**
Art. 394D

MAX 450bar

 Centralina a comando pneumatico
 remoto **doppio effetto**
 Double effect power unit with
 remote pneumatic control


Per azionare la centralina è consigliato l'uso dell' ART.402 (vedi pag.4.52)

Cod. 4.39.4D450

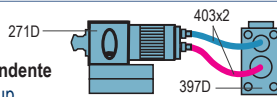
 € **1.509**
Art. 395D

MAX 450bar

 Centralina a comando
 elettrico **doppio**
 Power unit with **double**
 electrical control


Cod. 4.39.5D450

 € **1.659**
Art. 407C

 Gruppo di serraggio **indipendente**
 Independent clamping group


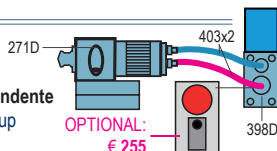
Le corse del pistone sono disponibili a pagina 4.54

Cod. 4.40.7C100 4.40.7C200 4.40.7C300 4.40.7C400

 € **1.082** **1.402** **1.466** **1.529**

MANUAL CONTROL

Art. 407D

 Gruppo di serraggio **indipendente**
 Independent clamping group


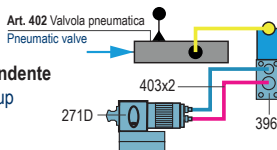
Le corse del pistone sono disponibili a pagina 4.54

Cod. 4.40.7D100 4.40.7D200 4.40.7D300 4.40.7D400

 € **1.282** **1.594** **1.658** **1.721**

CNC CONTROL

Art. 407E

 Gruppo di serraggio **indipendente**
 Independent clamping group


Cod. 4.40.7E100 4.40.7E200 4.40.7E300 4.40.7E400

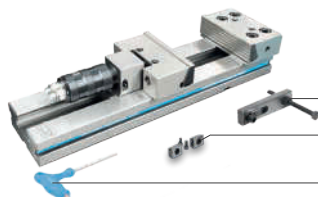
 € **1.203** **1.234** **1.247** **1.283**

AIR CONTROL

Dotazione standard:

- 1 arresto laterale Art. 370
- 1 coppia di tasselli di posizionamento Art. 297 (Standard per cava da 16 mm; altre dimensioni a richiesta senza variazione di prezzo)
- 1 chiave a "T" Art. 376

Extra per ogni foro calibrato (tolleranza F7): € 102,00 - Extra per ogni chiave (tolleranza H7): € 227,00



Art. 1E

Art. 370

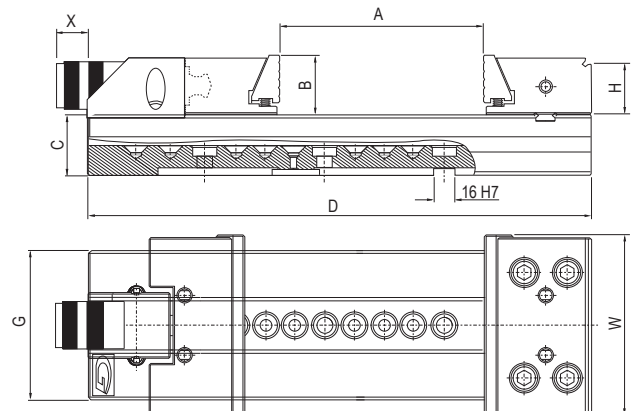
Art. 297

Art. 376

Standard equipment:

- 1 workstop Art. 370
- 1 pair of positioning key-nuts Art. 297 (Standard for 16 mm slot. Other dimensions available on request without price change)
- 1 T-wrench Art. 376

Extra charge for each calibrated hole (F7 tolerance): € 102,00 - Extra charge for each calibrated key nut (F7 tolerance): € 227,00


ESEMPIO D'ORDINE PER KIT COMPLETO: Art.1F (Morsa) + Art.393 (centralina a comando manuale) + Art.403 (tubo 1,5M)
COMPLETE KIT ORDER EXAMPLE: Art.1F (Vise) + Art.393 (power unit with manual control) + Art.403 (pipe 1,5M)

StandardMatic VISES

5 40 kN						6 40 kN						
A	200	300	400	500	600	200	300	400	500	600	700	800
W			200						300			
B			65						80			
C			70						78			
D	495	595	695	795	895	535	635	735	835	935	1035	1135
G			170						195			
X			64						43,5			
kg	64	69	74	79	84	95	105	115	125	135	145	155
Cod.	1.1F.52000	1.1F.53000	1.1F.54000	1.1F.55000	1.1F.56000	1.1F.62000	1.1F.63000	1.1F.64000	1.1F.65000	1.1F.66000	1.1F.67000	1.1F.68000
€	2.154	2.428	2.701	3.112	3.522	2.871	3.418	3.967	4.377	4.787	5.196	5.607

4.39.3D450		4.39.3D450
Art. 393		1.509

MANUAL CONTROL

Suggest the ART.402 (see pag.4.52) to use power unit

4.39.4D450		4.39.4D450
Art. 394		1.509

AIR CONTROL

4.39.5D450		4.39.5D450
Art. 395		1.659

CNC CONTROL

Piston strokes are available at page 4.54

4.40.7C500	4.40.7C600	
Art. 407C	1.594	1.721

MANUAL CONTROL

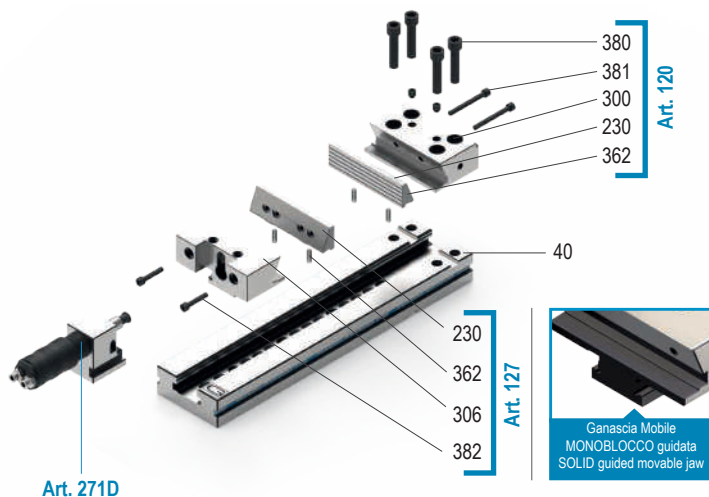
Piston strokes are available at page 4.54

4.40.7D500	4.40.7D600	
Art. 407D	1.784	1.912

CNC CONTROL

4.40.7E500	4.40.7E600	
Art. 407E	1.452	1.553

 Pneumo-hydraulic servo units (complete of hydraulic cylinder + support) for multiple clamping **simultaneous** or **independent**, from 2 to 6 vises. See from page 4.38 to 4.49

Art. 1F


Art.	Pag.
40	1.24
230	4.9
271D	4.54
300	4.29
362	4.28
381	4.28
382	4.28

COMANDO MANUALE - MANUAL CONTROL

SINGOLO EFFETTO

SINGLE EFFECT

Tipo (grandezza) morsa / Vise type (size)

1 2 3 4 5 6

Art. 390

N° 1 serraggio
N° 1 clamping

MORSA NON COMPRESA
VICE NOT INCLUDED

403 tubo idraulico Multispiral
Hydraulic pipe Multispiral

271 cilindro idraulico
Hydraulic cylinder



Ingresso aria
Air inlet

393 centralina a comando manuale
Power unit with manual control

Cod. 4.39.01000 4.39.02000 4.39.03000 4.39.04000 4.39.05000 4.39.06000

€ 1.766 1.778 1.788 1.822 2.013 2.122

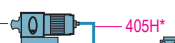
Art. 393 + Art. 271 + Art. 403 (m 1,5)

Art. 390/2

N° 2 serraggi contemporanei
N° 2 simultaneously clamping

Art. 390 + n° 1 Art. 271

+1 Art. 271



405H*

Ingresso aria
Air inlet

Cod. 4.39.01002 4.39.02002 4.39.03002 4.39.04002 4.39.05002 4.39.06002

€ 2.137 2.159 2.178 2.248 2.628 2.851

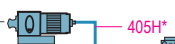
* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 390/3

N° 3 serraggi contemporanei
N° 3 simultaneously clamping

Art. 390 + n° 2 Art. 271

+2 Art. 271



405H*

Ingresso aria
Air inlet

Cod. 4.39.01003 4.39.02003 4.39.03003 4.39.04003 4.39.05003 4.39.06003

€ 2.506 2.537 2.574 2.674 3.244 3.583

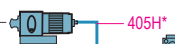
* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 390/4

N° 4 serraggi contemporanei
N° 4 simultaneously clamping

Art. 390 + n° 3 Art. 271

+3 Art. 271



405H*

Ingresso aria
Air inlet

Cod. 4.39.01004 4.39.02004 4.39.03004 4.39.04004 4.39.05004 4.39.06004

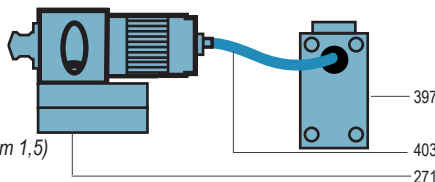
€ 2.875 2.920 2.966 3.099 3.861 4.311

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 407

Gruppo di serraggio indipendente
Independent clamping group

Art. 271 + Art. 397 + Art. 403 (m 1,5)



397

403

271

Cod. 4.40.71000 4.40.72000 4.40.73000 4.40.74000 4.40.75000 4.40.76000

€ 783 793 804 840 1.036 1.150

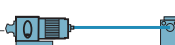
Possibilità di automatizzare tutte le morse STD / StandardFLEX / XL / Elementi modulari. (Esclusi Art.1E, Art.1F)

Art. 390A / 2

N° 2 serraggi indipendenti
N° 2 independent clamping

Art. 390 + n° 1 Art. 407

+1 Art. 407



Ingresso aria
Air inlet

Cod. 4.39.0A102 4.39.0A202 4.39.0A302 4.39.0A402 4.39.0A502 4.39.0A602

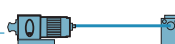
€ 2.529 2.553 2.575 2.641 3.023 3.246

Art. 390A / 3

N° 3 serraggi indipendenti
N° 3 independent clamping

Art. 390 + n° 2 Art. 407

+2 Art. 407



Ingresso aria
Air inlet

Cod. 4.39.0A103 4.39.0A203 4.39.0A303 4.39.0A403 4.39.0A503 4.39.0A603

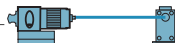
€ 3.291 3.327 3.360 3.460 4.033 4.367

Art. 390A / 4

N° 4 serraggi indipendenti
N° 4 independent clamping

Art. 390 + n° 3 Art. 407

+3 Art. 407



Ingresso aria
Air inlet

Cod. 4.39.0A104 4.39.0A204 4.39.0A304 4.39.0A404 4.39.0A504 4.39.0A604

€ 4.056 4.102 4.146 4.279 5.042 5.490

COMANDO ELETTRICO - SOLENOID CONTROL

SINGOLO EFFETTO - cnc

SINGLE EFFECT da cnc

Tipo (grandezza) morsa / Vise type (size)

1

2

3

4

5

6

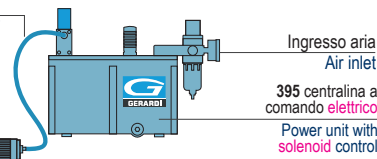
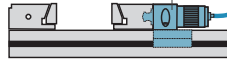
Art. 391

N° 1 serraggio
N° 1 clamping

MORSA NON COMPRESA
VISE NOT INCLUDED

403 tubo idraulico Multispiral
Hydraulic pipe Multispiral

271 cilindro idraulico
Hydraulic cylinder



Ingresso aria
Air inlet
395 centralina a comando elettrico
Power unit with solenoid control

Cod.	4.39.11000	4.39.12000	4.39.13000	4.39.14000	4.39.15000	4.39.16000
------	------------	------------	------------	------------	------------	------------

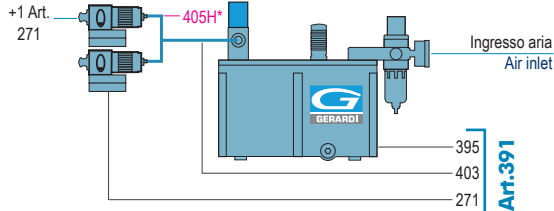
€	1.912	1.927	1.935	1.969	2.160	2.272
---	-------	-------	-------	-------	-------	-------

Art. 395 + Art. 271 + Art. 403 (m 1,5)

Art. 391 / 2

N° 2 serraggi contemporanei
N° 2 simultaneously clamping

Art. 391 + n° 1 Art. 271



Cod.	4.39.11002	4.39.12002	4.39.13002	4.39.14002	4.39.15002	4.39.16002
------	------------	------------	------------	------------	------------	------------

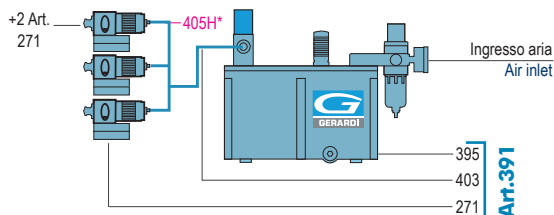
€	2.285	2.306	2.328	2.396	2.776	3.001
---	-------	-------	-------	-------	-------	-------

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 391 / 3

N° 3 serraggi contemporanei
N° 3 simultaneously clamping

Art. 391 + n° 2 Art. 271



Cod.	4.39.11003	4.39.12003	4.39.13003	4.39.14003	4.39.15003	4.39.16003
------	------------	------------	------------	------------	------------	------------

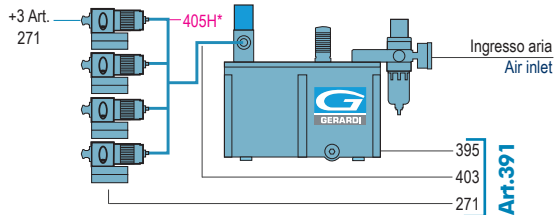
€	2.653	2.688	2.720	2.822	3.392	3.729
---	-------	-------	-------	-------	-------	-------

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 391 / 4

N° 4 serraggi contemporanei
N° 4 simultaneously clamping

Art. 391 + n° 3 Art. 271



Cod.	4.39.11004	4.39.12004	4.39.13004	4.39.14004	4.39.15004	4.39.16004
------	------------	------------	------------	------------	------------	------------

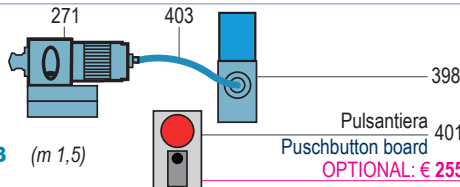
€	3.555	3.068	3.113	3.247	3.566	4.457
---	-------	-------	-------	-------	-------	-------

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 407A

Gruppo di serraggio indipendente
Independent clamping group

Art. 271 + Art. 398 + Art. 403 (m 1,5)



Cod.	4.40.7A100	4.40.7A200	4.40.7A300	4.40.7A400	4.40.7A500	4.40.7A600
------	------------	------------	------------	------------	------------	------------

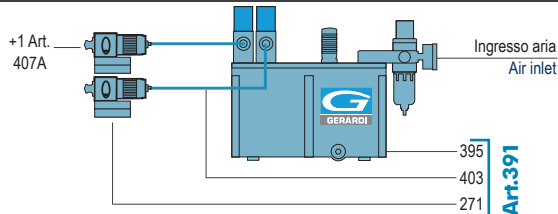
€	980	992	1.005	1.040	1.232	1.347
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Possibility to automate all STD / StandardFLEX / XL / Modular Element vises. (Art. 1E & Art. 1F except)

Art. 391A / 2

N° 2 serraggi indipendenti
N° 2 independent clamping

Art. 391 + n° 1 Art. 407A



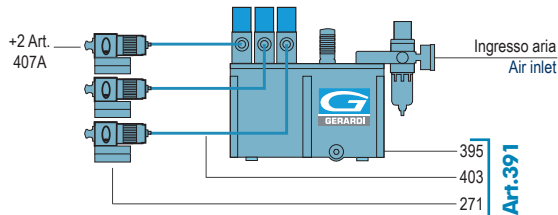
Cod.	4.39.1A102	4.39.1A202	4.39.1A302	4.39.1A402	4.39.1A502	4.39.1A602
------	------------	------------	------------	------------	------------	------------

€	2.872	2.893	2.916	2.984	3.363	3.590
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Art. 391A / 3

N° 3 serraggi indipendenti
N° 3 independent clamping

Art. 391 + n° 2 Art. 407A



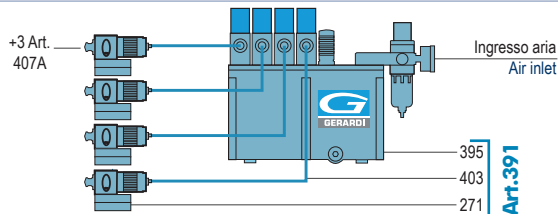
Cod.	4.39.1A103	4.39.1A203	4.39.1A303	4.39.1A403	4.39.1A503	4.39.1A603
------	------------	------------	------------	------------	------------	------------

€	3.830	3.864	3.897	4.000	4.570	4.906
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Art. 391A / 4

N° 4 serraggi indipendenti
N° 4 independent clamping

Art. 391 + n° 3 Art. 407A

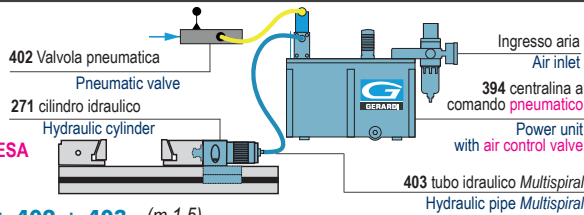


Cod.	4.39.1A104	4.39.1A204	4.39.1A304	4.39.1A404	4.39.1A504	4.39.1A604
------	------------	------------	------------	------------	------------	------------

€	4.789	4.833	4.879	5.014	5.774	6.222
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COMANDO PNEUMATICO - PNEUMATIC CONTROL
SINGOLO EFFETTO
SINGLE EFFECT
Tipo (grandezza) morsa / Vise type (size)
1
2
3
4
5
6
Art. 392

 N° 1 serraggio
 N° 1 clamping

MORSA NON COMPRESA
VICE NOT INCLUDED

Art. 392 + 271 + 402 + 403 (m 1,5)

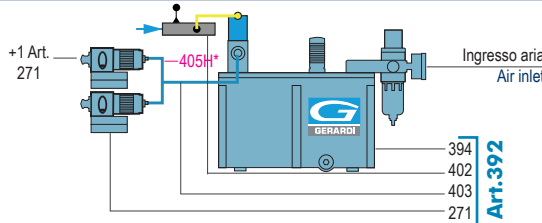
Cod. 4.39.21000 4.39.22000 4.39.23000 4.39.24000 4.39.25000 4.39.26000

 € **1.860** **1.872** **1.884** **1.917** **2.109** **2.220**

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 392 / 2

 N° 2 serraggi contemporanei
 N° 2 simultaneously clamping

Art. 392 + n° 1 Art. 271


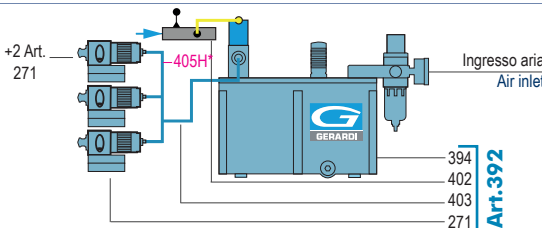
Cod. 4.39.21002 4.39.22002 4.39.23002 4.39.24002 4.39.25002 4.39.26002

 € **2.233** **2.255** **2.277** **2.345** **2.725** **2.947**

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 392 / 3

 N° 3 serraggi contemporanei
 N° 3 simultaneously clamping

Art. 392 + n° 2 Art. 271


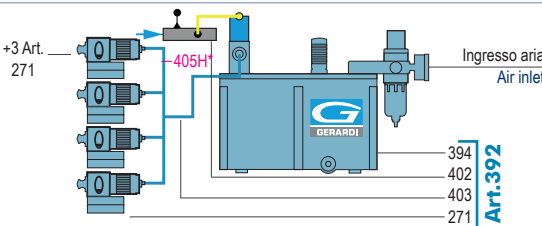
Cod. 4.39.21003 4.39.22003 4.39.23003 4.39.24003 4.39.25003 4.39.26003

 € **2.602** **2.635** **2.667** **2.769** **3.341** **3.678**

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 392 / 4

 N° 4 serraggi contemporanei
 N° 4 simultaneously clamping

Art. 392 + n° 3 Art. 271


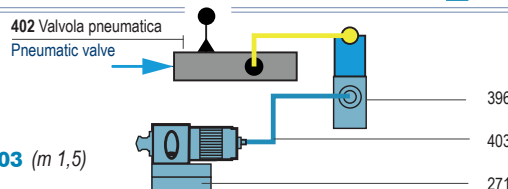
Cod. 4.39.21004 4.39.22004 4.39.23004 4.39.24004 4.39.25004 4.39.26004

 € **2.971** **3.017** **3.059** **3.197** **3.959** **4.405**

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 407B

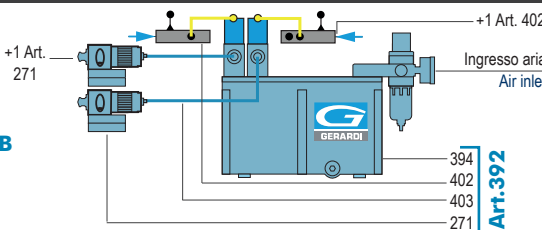
 Gruppo di serraggio indipendente
 Independent clamping group

Art. 271 + 396 + 402 + 403 (m 1,5)


Cod. 4.40.7B100 4.40.7B200 4.40.7B300 4.40.7B400 4.40.7B500 4.40.7B600

 € **903** **913** **924** **961** **1.154** **1.267**
Possibilità di automatizzare tutte le morse STD / StandardFLEX / XL / Elementi modulari. (Esclusi Art.1E, Art.1F)
Art. 392A / 2

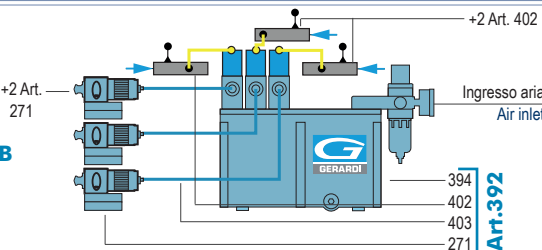
 N° 2 serraggi indipendenti
 N° 2 independent clamping

Art. 392 + n° 1 Art. 407B


Cod. 4.39.2A102 4.39.2A202 4.39.2A302 4.39.2A402 4.39.2A502 4.39.2A602

 € **3.036** **3.064** **3.083** **3.162** **3.641** **3.864**
Art. 392A / 3

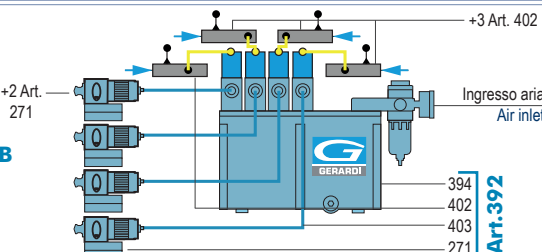
 N° 3 serraggi indipendenti
 N° 3 independent clamping

Art. 392 + n° 2 Art. 407B


Cod. 4.39.2A103 4.39.2A203 4.39.2A303 4.39.2A403 4.39.2A503 4.39.2A603

 € **3.532** **3.565** **3.596** **3.695** **4.247** **4.574**
Art. 392A / 4

 N° 4 serraggi indipendenti
 N° 4 independent clamping

Art. 392 + n° 3 Art. 407B


Cod. 4.39.2A104 4.39.2A204 4.39.2A304 4.39.2A404 4.39.2A504 4.39.2A604

 € **4.367** **4.413** **4.455** **4.584** **5.319** **5.750**

ACCESSORI e RICAMBI

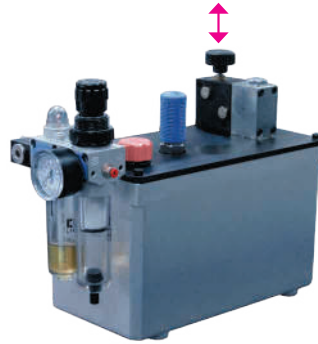
ACCESSORIES and SPARE PARTS

N.B. Le centraline sono fornite senza olio
N.B The power units are supplied without oil

Art. 393

Centralina a comando **manuale singolo**
Pressione max 450bar
Con mantenimento e ripristino automatico della pressione desiderata

Power unit with **single manual** control
Max pression 450bar
Automatic retention and reset of desired pressure



Cod. 4.39.34500

€ 1.278

Art. 397

Blocco modulare per comando **manuale** aggiuntivo per ogni morsa extra

Modular block for **manual** control for each extra vise

Ingresso aria (Ø 8 - 7bar)
Air inlet (Ø 8 - 7bar)



Cod. 4.39.70000

€ 230

Art. 397B

Blocco base per comando **manuale**
Base block for **manual** control

Ingresso aria (Ø 8 - 7bar)
Air inlet (Ø 8 - 7bar)



Cod. 4.39.7B000

€ 225

Art. 394

Centralina a comando **pneumatico remoto**
(Tramite Art. 402 extra) - Pressione max 450bar
Con mantenimento e ripristino automatico della pressione desiderata

Power unit with **remote pneumatic** control
(Through Art. 402 extra) - Max pression 450bar
Automatic retention and reset of desired pressure



Cod. 4.39.44500

€ 1.278

Ingresso aria (Ø 8 - 7bar)
Air inlet (Ø 8 - 7bar)

Ingresso aria (Ø 8 - 7bar)
Air inlet (Ø 8 - 7bar)

Art. 396

Blocco modulare per comando **pneumatico** aggiuntivo per ogni morsa extra

Modular block for **pneumatic** control for each extra vise



Cod. 4.39.60000

€ 254

Art. 396B

Blocco base per comando **pneumatico**
Base block for **pneumatic** contro



Cod. 4.39.6B000

€ 246

Art. 395

Centralina a comando **elettrico**
Pressione max 450bar
Con mantenimento e ripristino automatico della pressione desiderata

Power unit with **electrical** control
Max pression 450bar
Automatic retention and reset of desired pressure



Cod. 4.39.54500

€ 1.426

Su richiesta:
12V / 24V / ...V
On request:
12V / 24V / ...V

Ingresso aria (Ø 8 - 7bar)
Air inlet (Ø 8 - 7bar)

Su richiesta:
12V / 24V / ...V
On request:
12V / 24V / ...V

Ingresso aria (Ø 8 - 7bar)
Air inlet (Ø 8 - 7bar)

Art. 398

Blocco modulare per comando **elettrico** aggiuntivo per ogni morsa extra

Modular block for **electric** control for each extra vise



Cod. 4.39.80000

€ 440

Art. 398B

Blocco base per comando **elettrico**
Base block for **electric** control



Cod. 4.39.8B000

€ 434

COMANDO MANUALE - MANUAL CONTROL

DOPPIO EFFETTO

DOUBLE EFFECT

Tipo (grandezza) morsa / Vise type (size)

1

2

3

4

5

6

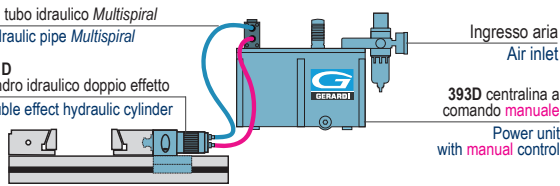
Art. 390B

403 tubo idraulico *Multispiral*
Hydraulic pipe *Multispiral*

271D cilindro idraulico doppio effetto
double effect hydraulic cylinder

N° 1 serraggio
N° 1 clamping

MORSA NON COMPRESA
WISE NOT INCLUDED



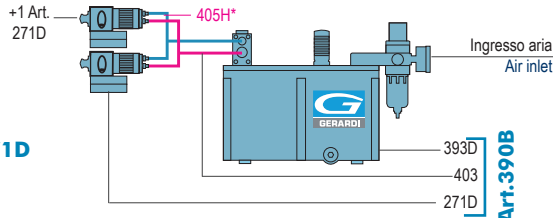
Cod. 4.39.0B100 4.39.0B200 4.39.0B300 4.39.0B400 4.39.0B500 4.39.0B600

€ 2.025 2.373 2.435 2.497 2.561 2.686

Art.393D + Art.271D + Art.403 (m 1,5)

Art. 390B/2

N° 2 serraggi **contemporanei**
N° 2 **simultaneously** clamping



Cod. 4.39.0B102 4.39.0B202 4.39.0B302 4.39.0B402 4.39.0B502 4.39.0B602

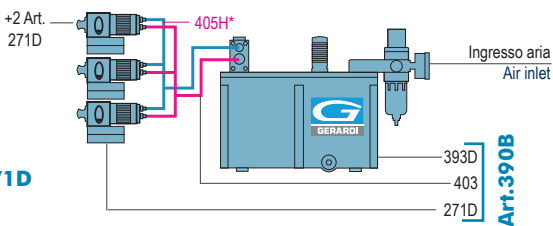
€ 2.570 3.121 3.247 3.372 3.496 3.746

Art. 390B + n° 1 Art.271D

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 390B/3

N° 3 serraggi **contemporanei**
N° 3 **simultaneously** clamping



Cod. 4.39.0B103 4.39.0B203 4.39.0B303 4.39.0B403 4.39.0B503 4.39.0B603

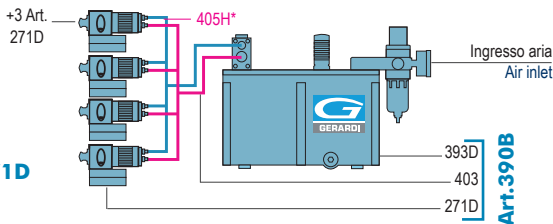
€ 2.938 3.871 4.058 4.245 4.433 4.806

Art. 390B + n° 2 Art.271D

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 390B/4

N° 4 serraggi **contemporanei**
N° 4 **simultaneously** clamping



Cod. 4.39.0B104 4.39.0B204 4.39.0B304 4.39.0B404 4.39.0B504 4.39.0B604

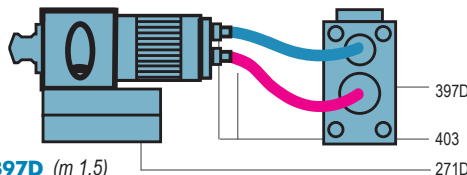
€ 3.427 4.495 4.745 4.994 5.244 5.743

Art. 390B + n° 3 Art.271D

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 407C

Gruppo di serraggio **indipendente**
Independent clamping group



Cod. 4.40.7C100 4.40.7C200 4.40.7C300 4.40.7C400 4.40.7C500 4.40.7C600

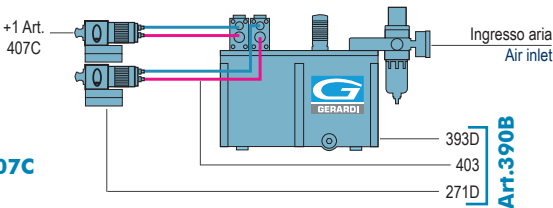
€ 1.082 1.402 1.466 1.529 1.594 1.721

Art.271D + Art. 403 + Art. 397D (m 1,5)

Possibilità di automatizzare tutte le morse STD / StandardFLEX / XL / Elementi modulari. (Esclusi Art.1E, Art.1F)

Art. 390C / 2

N° 2 serraggi **indipendenti**
N° 2 **independent** clamping



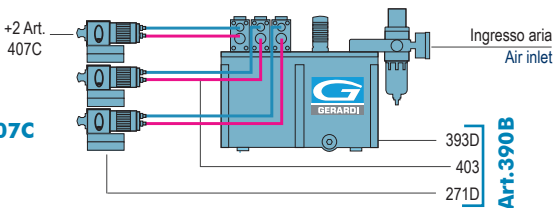
Cod. 4.39.0C102 4.39.0C202 4.39.0C302 4.39.0C402 4.39.0C502 4.39.0C602

€ 3.082 3.746 3.871 3.996 4.120 4.370

Art. 390B + n° 1 Art. 407C

Art. 390C / 3

N° 3 serraggi **indipendenti**
N° 3 **independent** clamping



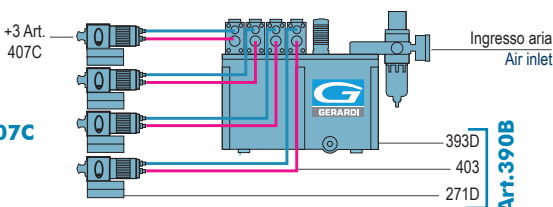
Cod. 4.39.0C103 4.39.0C203 4.39.0C303 4.39.0C403 4.39.0C503 4.39.0C603

€ 4.140 5.181 5.368 5.555 5.743 6.117

Art. 390B + n° 2 Art. 407C

Art. 390C / 4

N° 4 serraggi **indipendenti**
N° 4 **independent** clamping



Cod. 4.39.0C104 4.39.0C204 4.39.0C304 4.39.0C404 4.39.0C504 4.39.0C604

€ 5.197 6.492 6.741 6.991 7.240 7.740

Art. 390B + n° 3 Art. 407C

COMANDO ELETTRICO - SOLENOID CONTROL

DOPPIO EFFETTO da cnc **DOUBLE EFFECT by cnc**

Tipo (grandezza) morsa / Vise type (size)

1	2	3	4	5	6
---	---	---	---	---	---

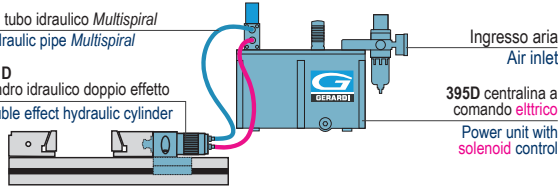
Art. 391B

N° 1 serraggio
N° 1 clamping

MORSA NON COMPRESA
WISE NOT INCLUDED

403 tubo idraulico Multispiral
Hydraulic pipe Multispiral

271D cilindro idraulico doppio effetto
double effect hydraulic cylinder



Ingresso aria
Air inlet

395D centralina a comando elettrico
Power unit with solenoid control

Cod.	4.39.1B100	4.39.1B200	4.39.1B300	4.39.1B400	4.39.1B500	4.39.1B600
------	------------	------------	------------	------------	------------	------------

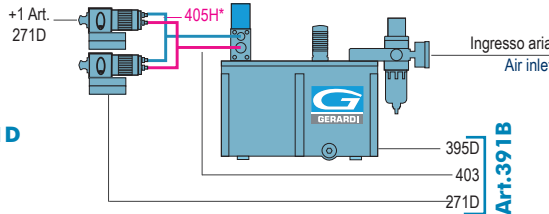
€	2.172	2.497	2.561	2.623	2.686	2.809
---	-------	-------	-------	-------	-------	-------

Art. 395D + Art.271D + Art. 403 (m 1,5)

Art. 391B / 2

N° 2 serraggi contemporanei
N° 2 simultaneously clamping

Art. 391B + n° 1 Art.271D



Cod.	4.39.1B102	4.39.1B202	4.39.1B302	4.39.1B402	4.39.1B502	4.39.1B602
------	------------	------------	------------	------------	------------	------------

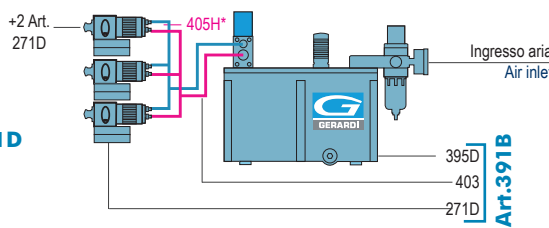
€	2.567	3.247	3.372	3.496	3.621	3.871
---	-------	-------	-------	-------	-------	-------

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 391B / 3

N° 3 serraggi contemporanei
N° 3 simultaneously clamping

Art. 391B + n° 2 Art.271D



Cod.	4.39.1B103	4.39.1B203	4.39.1B303	4.39.1B403	4.39.1B503	4.39.1B603
------	------------	------------	------------	------------	------------	------------

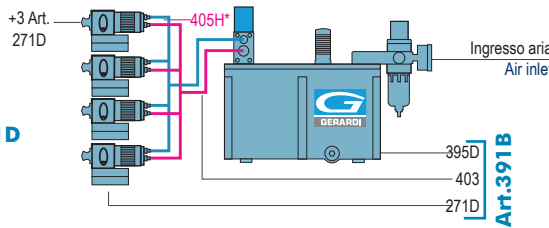
€	2.960	3.996	4.182	4.370	4.557	4.931
---	-------	-------	-------	-------	-------	-------

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 391B / 4

N° 4 serraggi contemporanei
N° 4 simultaneously clamping

Art. 391B + n° 3 Art.271D



Cod.	4.39.1B104	4.39.1B204	4.39.1B304	4.39.1B404	4.39.1B504	4.39.1B604
------	------------	------------	------------	------------	------------	------------

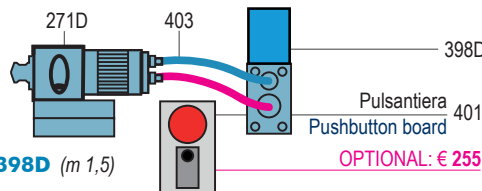
€	3.886	4.620	4.869	5.120	5.368	5.867
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* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 407D

Gruppo di serraggio indipendente
Independent clamping group

Art.271D + Art. 403 + Art.398D (m 1,5)



Cod.	4.40.7D100	4.40.7D200	4.40.7D300	4.40.7D400	4.40.7D500	4.40.7D600
------	------------	------------	------------	------------	------------	------------

€	1.282	1.594	1.658	1.721	1.784	1.912
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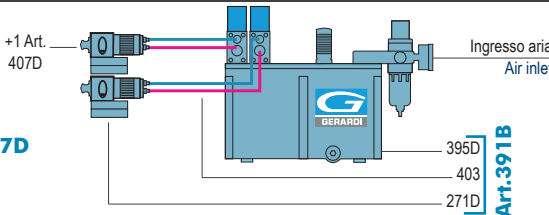
OPTIONAL: € 255

Possibility to automate all STD / StandardFLEX / XL / Modular Element vises. (Art. 1E & Art. 1F except)

Art. 391C / 2

N° 2 serraggi indipendenti
N° 2 independent clamping

Art. 391B + n° 1 Art. 407D



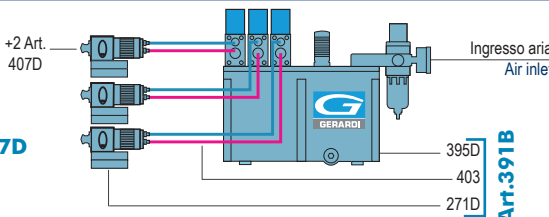
Cod.	4.39.1C102	4.39.1C202	4.39.1C302	4.39.1C402	4.39.1C502	4.39.1C602
------	------------	------------	------------	------------	------------	------------

€	3.426	4.120	4.245	4.370	4.495	4.745
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Art. 391C / 3

N° 3 serraggi indipendenti
N° 3 independent clamping

Art. 391B + n° 2 Art. 407D



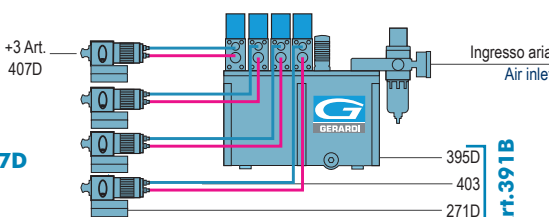
Cod.	4.39.1C103	4.39.1C203	4.39.1C303	4.39.1C403	4.39.1C503	4.39.1C603
------	------------	------------	------------	------------	------------	------------

€	4.678	5.743	5.930	6.117	6.305	6.679
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Art. 391C / 4

N° 4 serraggi indipendenti
N° 4 independent clamping

Art. 391B + n° 3 Art. 407D



Cod.	4.39.1C104	4.39.1C204	4.39.1C304	4.39.1C404	4.39.1C504	4.39.1C604
------	------------	------------	------------	------------	------------	------------

€	5.929	7.240	7.490	7.740	7.989	8.489
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COMANDO PNEUMATICO - PNEUMATIC CONTROL

DOPPIO EFFETTO

DOUBLE EFFECT

Tipo (grandezza) morsa / Vise type (size)

1

2

3

4

5

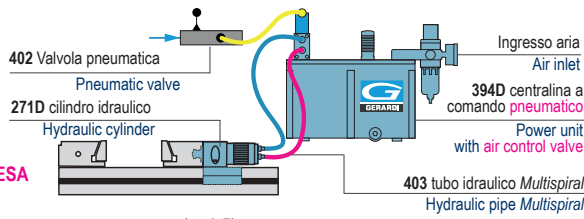
6

Art. 392B

N° 1 serraggio
N° 1 clamping

MORSA NON COMPRESA
WISE NOT INCLUDED

Art. 394D + 271D + 402 + 403 (m 1,5)



Cod. 4.39.2B100 4.39.2B200 4.39.2B300 4.39.2B400 4.39.2B500 4.39.2B600

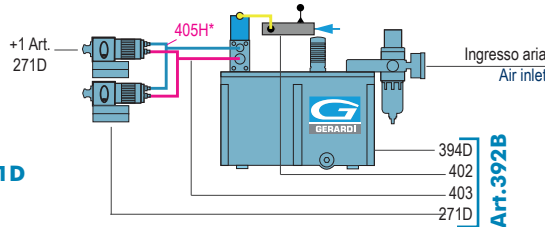
€ **2.120 2.204 2.264 2.326 2.367 2.467**

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 392B / 2

N° 2 serraggi contemporanei
N° 2 simultaneously clamping

Art. 392B + n° 1 Art.271D



Cod. 4.39.2B102 4.39.2B202 4.39.2B302 4.39.2B402 4.39.2B502 4.39.2B602

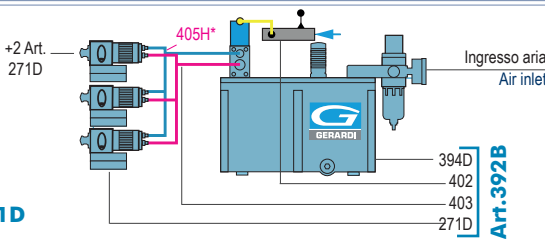
€ **2.570 2.693 2.754 2.815 3.006 3.205**

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 392B / 3

N° 3 serraggi contemporanei
N° 3 simultaneously clamping

Art. 392B + n° 2 Art.271D



Cod. 4.39.2B103 4.39.2B203 4.39.2B303 4.39.2B403 4.39.2B503 4.39.2B603

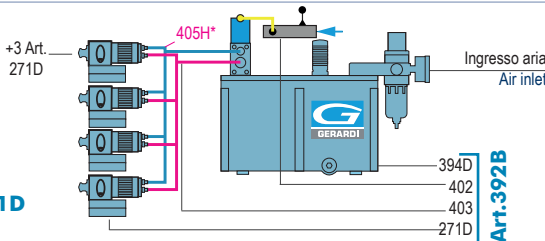
€ **2.938 3.060 3.121 3.182 3.644 3.946**

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 392B / 4

N° 4 serraggi contemporanei
N° 4 simultaneously clamping

Art. 392B + n° 3 Art.271D



Cod. 4.39.2B104 4.39.2B204 4.39.2B304 4.39.2B404 4.39.2B504 4.39.2B604

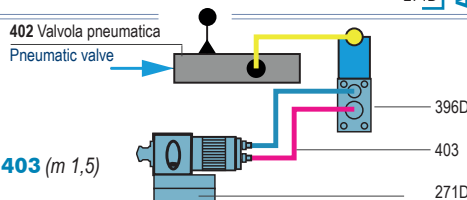
€ **3.305 3.550 3.611 3.671 4.283 4.684**

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 407E

Gruppo di serraggio indipendente
Independent clamping group

Art.271D + 396D + 402 + 403 (m 1,5)



Cod. 4.40.7E100 4.40.7E200 4.40.7E300 4.40.7E400 4.40.7E500 4.40.7E600

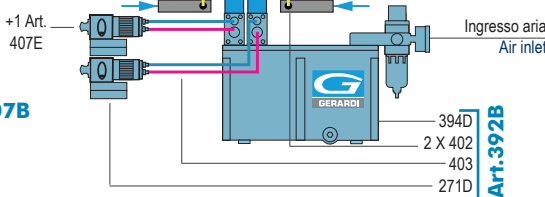
€ **1.203 1.234 1.247 1.283 1.452 1.553**

Possibilità di automatizzare tutte le morsa STD / StandardFLEX / XL / Elementi modulari. (Esclusi Art.1E, Art.1F)

Art. 392C / 2

N° 2 serraggi indipendenti
N° 2 independent clamping

Art. 392B + n° 1 Art. 407B



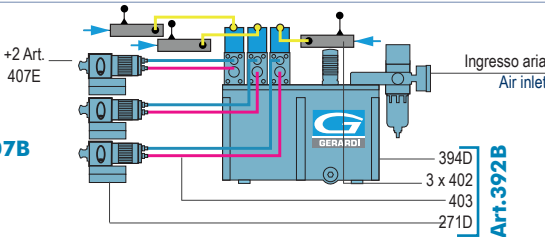
Cod. 4.39.2C102 4.39.2C202 4.39.2C302 4.39.2C402 4.39.2C502 4.39.2C602

€ **3.590 3.660 3.681 3.760 4.192 4.391**

Art. 392C / 3

N° 3 serraggi indipendenti
N° 3 independent clamping

Art. 392B + n° 2 Art. 407B



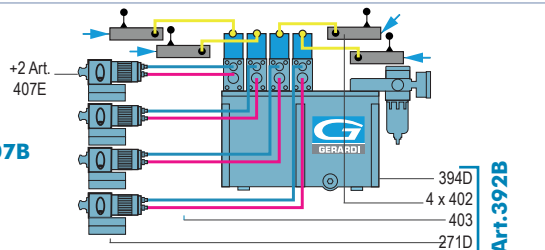
Cod. 4.39.2C103 4.39.2C203 4.39.2C303 4.39.2C403 4.39.2C503 4.39.2C603

€ **4.379 4.477 4.511 4.609 5.090 5.381**

Art. 392C / 4

N° 4 serraggi indipendenti
N° 4 independent clamping

Art. 392B + n° 3 Art. 407B



Cod. 4.39.2C104 4.39.2C204 4.39.2C304 4.39.2C404 4.39.2C504 4.39.2C604

€ **5.510 5.642 5.686 5.816 6.454 6.838**

ACCESSORI e RICAMBI

ACCESSORIES and SPARE PARTS

N.B. Le centraline sono fornite senza olio
N.B. The power units are supplied without oil

Art. 393D

Centralina a comando **manuale doppio**
Pressione max 450bar
Con mantenimento e ripristino automatico della pressione desiderata

Power unit with **double manual** control
Max pression 450bar
Automatic retention and reset of desired pressure



Cod. 4.39.3D450

€ 1.509

Art. 397D

Blocco modulare per comando **manuale** aggiuntivo per ogni morsa extra

Modular block for **manual** control for each extra vise

Ingresso aria (Ø 8 - 7bar)
Air inlet (Ø 8 - 7bar)



Cod. 4.39.7D000

€ 499

Art. 397C

Blocco base per comando **manuale**
Base block for **manual** control

Ingresso aria (Ø 8 - 7bar)
Air inlet (Ø 8 - 7bar)



Cod. 4.39.7C000

€ 579

Art. 394D

Centralina a comando **pneumatico remoto doppio** (Tramite Art. 402 extra) - Pressione max 450bar
Con mantenimento e ripristino automatico della pressione desiderata

Power unit with **double remote pneumatic** control (Through Art. 402 extra) - Max pression 450bar
Automatic retention and reset of desired pressure



Cod. 4.39.4D450

€ 1.509

Ingresso aria (Ø 8 - 7bar)
Air inlet (Ø 8 - 7bar)



Ingresso aria (Ø 8 - 7bar)
Air inlet (Ø 8 - 7bar)



Art. 396D

Blocco modulare per comando **pneumatico** aggiuntivo per ogni morsa extra

Modular block for **pneumatic** control for each extra vise



Cod. 4.39.6D000

€ 524

Art. 396C

Blocco base per comando **pneumatico**
Base block for **pneumatic** control



Cod. 4.39.6C000

€ 601

Art. 395D

Centralina a comando **elettrico doppio**
Pressione max 450bar
Con mantenimento e ripristino automatico della pressione desiderata

Power unit with **double electrical** control
Max pression 450bar
Automatic retention and reset of desired pressure



Cod. 4.39.5D450

€ 1.659

Su richiesta:
12V / 24V / ...V
On request:
12V / 24V / ...V



Ingresso aria (Ø 8 - 7bar)
Air inlet (Ø 8 - 7bar)

Cod. 4.39.8D000

€ 713

Art. 398C

Blocco base per comando **pneumatico**
Base block for **pneumatic** control

Su richiesta:
12V / 24V / ...V
On request:
12V / 24V / ...V



Ingresso aria (Ø 8 - 7bar)
Air inlet (Ø 8 - 7bar)

Cod. 4.39.8C000

€ 788

Art. 398D

Blocco modulare per comando **elettrico** aggiuntivo per ogni morsa extra

Modular block for **electric** control for each extra vise



ACCESSORI e RICAMBI

ACCESSORIES and SPARE PARTS

Art. 399

 Gruppo filtro riduttore più lubrificatore
 Compressed air preparation unit


Cod. 4.39.90000

€ 185

Art. 400

 Pedale bistabile
 Two positions foot pedal


Cod. 4.40.00000

€ 205

Art. 401

 Pulsantiera per 1 azionamento
 Puschbutton board for one control operation


Cod. 4.40.10000

€ 284

Art. 402

 Valvola pneumatica frontale, 2 vie
 Frontal pneumatic valve, 2 ways


Cod. 4.40.20000-14

€ 95

Art. 402/90

 Distributore leva angolare a 90°, 3 vie
 90° angular valve, 3 ways


Cod. 9.40.29000

€ 208

Art. 405H

Per ogni metro extra / For each extra meter: € 10

 Coduttura Tubolare in acciaio zincato (m 1,0)
 Suitable galvanized steel pipe (m 1,0)


Ø 6

Cod. 4.40.5H000

€ 14

Art. 403

Per ogni metro extra / For each extra meter: € 116

 Tubo idraulico Multispiral 760bar completo di attacco rapido Art. 270A (m 1,5)
 Hydraulic pipe *Multispiral* 760 bar complete with rapid connection Art. 270A (m 1,5)


Cod. 4.40.30000

€ 186

 Con le centraline a DOPPIO EFFETTO l'attacco rapido NON è incluso
 With DOUBLE EFFECT power unit the quick connection is NOT included

Art. 404

 Manometro 400bar
 Oil pressure gauge 400bar


Cod. 4.40.40000

€ 86

ACCESSORI e RICAMBI

ACCESSORIES and SPARE PARTS

Art. 270A

Attacco idraulico rapido femmina
Quick hydraulic female connection



Cod. 4.27.0A000

€ 78

Art. 270B

Innesto idraulico rapido maschio
Quick hydraulic male connection



Cod. 4.27.0B000

€ 52

Art. ID03

Raccordo idraulico a "L" maschio cilindrico Ø6 - 1/4" Gas
"L" hydraulic male parallel adaptor Ø6 - 1/4" Gas



Cod. 9.ID.03000

€ 14

Art. ID04

Raccordo idraulico a "T" centrale maschio cilindrico Ø6 - 1/4" Gas
"T" hydraulic male parallel adaptor Ø6 - 1/4" Gas



Cod. 9.ID.04000

€ 46

Art. ID05

Riduzione idraulica Ø6 - 1/4" Gas
Hydraulic straight male adaptor Ø6 - 1/4" Gas



Cod. 9.ID.05000

€ 10

Art. 505

Pressostato 400bar
Pressure switch 400bar



Cod. 0.50.50000

€ 239

Art. 272A

Indicatore di forza kN
Force indicator kN

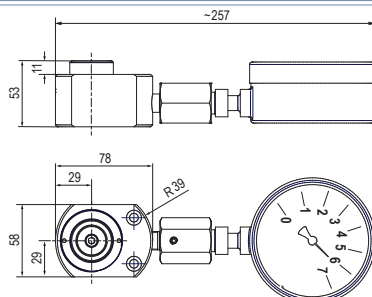


Cod. 4.27.2A600

€ 406

Art. 272

Cella di carico **completa** per controllo forza di bloccaggio delle morse
Complete loading cells to check vise clamping force



Bar Max 700

kN Max 111,3

Cod. 4.27.26000

€ 987

SERVOCOMANDI OLEODINAMICI / HYDRAULIC SERVO UNITS

Tipo (grandezza) morsa / Vise type (size)

1	2	3	4	5	6
----------	----------	----------	----------	----------	----------

Art. 271

 Supporto di serraggio con cilindro idraulico
 Clamping support with hydraulic cylinder
SEMPLICE EFFETTO - SIMPLE EFFECT

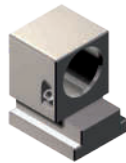

Cod.	2.27.11000	2.27.12000	2.27.13000	2.27.14000	2.27.15000	2.27.16000
€	401	438	500	563	689	750
Corsa Stroke	32	26		40		

Art. 271D

 Supporto di serraggio con cilindro idraulico **DOPPIO EFFETTO**
 Clamping support with hydraulic cylinder **DOUBLE EFFECT**

Cod.	2.27.1D100	2.27.1D200	2.27.1D300	2.27.1D400	2.27.1D500	2.27.1D600
€	489	739	813	875	938	1.000
Corsa Stroke	20	33		40		

Art. 283A

 Supporto di serraggio per cilindro idraulico
 Clamping support for hydraulic cylinder


Cod.	2.28.3A100	2.28.3A200	2.28.3A300	2.28.3A400	2.28.3A500	2.28.3A600
€	142	148	159	195	285	316

Art. 285

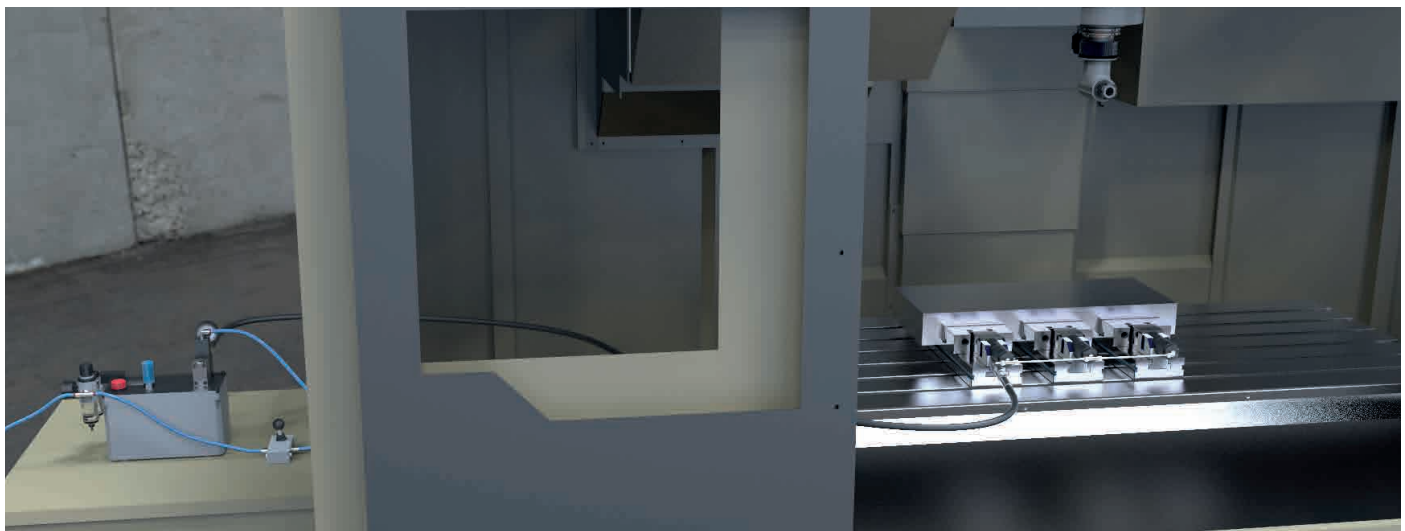
 Cilindro idraulico a semplice effetto.
 Serraggio idraulico e apertura meccanica
 Hydraulic cylinder single acting.
 Hydraulic clamping and mechanical opening


Pressione MAX MAX pressure		450 bar - 6525 psi			
Ø Pistone Ø Piston	20	30		36	
Area effettiva (cm2) effective area (cm2)	3,14	7,07		10,17	
Cod.	2.28.51000	2.28.52000	2.28.53000	2.28.55000	
€	257	282	282	402	
Corsa Stroke	32	26		40	

Art. 569

 Cilindro idraulico a doppio effetto.
 Apertura e chiusura idrauliche
 Hydraulic cylinder double acting.
 Hydraulic opening and clamping

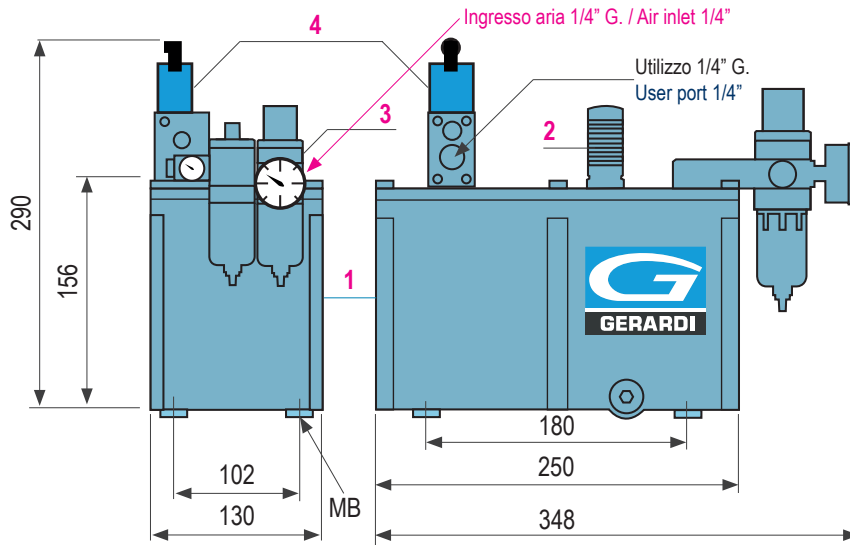

Pressione MAX MAX pressure		450 bar - 6525 psi			
Ø Pistone Ø Piston	20	30		32	
Area effettiva (cm2) effective area (cm2)	3,14	7,07		8,04	
Cod.	1.56.91000	1.56.92000	1.56.93000	1.56.95000	
€	256	557	580	580	
Corsa Stroke	20	33		40	

Specifico per sistemi robotizzati - Specific for robotic applications
Esempi di applicazione / Typical arrangements

 Morse Modulari di Precisione accoppiabili ed allineabili per serraggi multipli Pneumoidraulici (Serie StandardMatic)
 Precision Modular vises matchable for gang operations and pneumohydraulic clamping (StandardMatic series)

SERRAGGIO IDRAULICO HYDRAULIC CLAMPING

La centralina per serraggi idraulici ed i suoi derivati, nasce per soddisfare tutte le esigenze connesse all'azionamento di cilindri oleodinamici ove sia richiesta bassa portata ed elevate pressioni. La particolare forma costruttiva della centralina permette di ottenere, in ingombri estremamente contenuti, un impianto di elevate prestazioni. L'elemento pompante utilizzato consente, grazie ai particolari criteri costruttivi, di collocare la centralina in ambienti altamente ostili come, per esempio, l'area di lavoro di macchine utensili. L'esclusivo sistema modulare di controllo del flusso idraulico permette di comandare separatamente, con una sola unità, fino a sei utilizzi distinti.

The hydropneumatic power unit for hydraulic clamping devices and its bi-products are designed to meet all needs regarding the powering of hydraulic cylinders where low flow rates and high pressures are required. The special design shape of the power unit is such that a high performance system can be implemented taking up very little space. Thanks to the special design principles, the pump section adopted allows the hydropneumatic power unit to be installed in very hostile environments, such as the work area of machine tools, etc. The unique modular hydraulic flow control system allows controlling up to 6 separate users from just the one power unit.



CARATTERISTICHE TECNICHE

SPECIFICATION

Centralina tipo / Power unit type 450 T 2/3/4

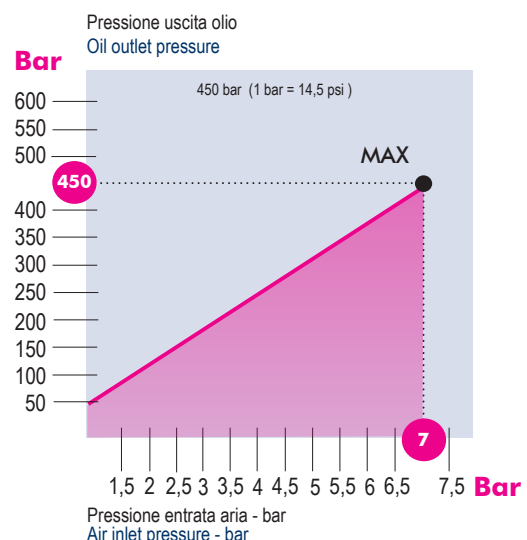
Pressione massima aria: Max permissible air pressure:	7 bar
Pressione aria consigliata: Recommended air pressure:	5,5 bar
Tipo di olio raccomandato: idraulico Recommended grade of oil: hydraulic	68 CSt
Portata Deliveries	0,9 l / min
Capacità serbatoio Tank capacity	3 l
Delta massimo su pilotaggi elettrici: Max delta on electric pilot section:	+ 10% - 5%
Pressione minima su pilotaggio pneumatico: Minimum pressure on pneumatic control:	5 bar
Pressione massima consentita per eventuale pilotaggio elettroidraulico: Max pressure for electrohydraulic control:	150 bar
Numero massimo consigliato di utilizzi: Max permissible air pressure	4

La pompa nella versione base viene fornita completa di:

- serbatoio in teflon 1
- tappo di carica
- silenziatore 2
- attacco di alimentazione aria del tipo ad innesto rapido D8 3
- un blocco di comando oleodinamico 4

The pump in its basic version is supplied complete with:

- teflon tank 1
- fill plug
- silencer 2
- quick acting air connector fitting type D8 3
- hydraulic control block 4



Diagrammi di serraggio / Clamping diagrams

StandardMatic

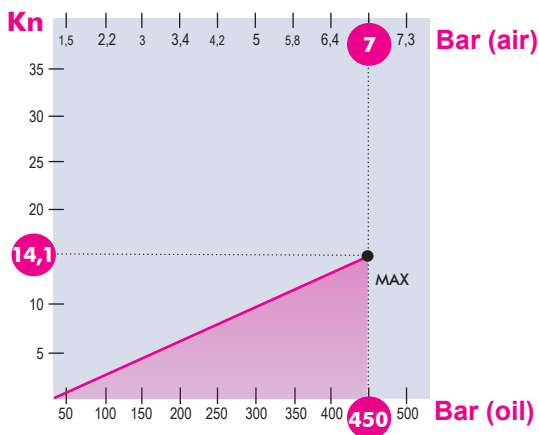
Diagrammi di serraggio pneumoidraulici ed elettroidraulici

Diagram pneumo-hydraulic and electro-hydraulic clamping

Morse tipo
Vises type

1

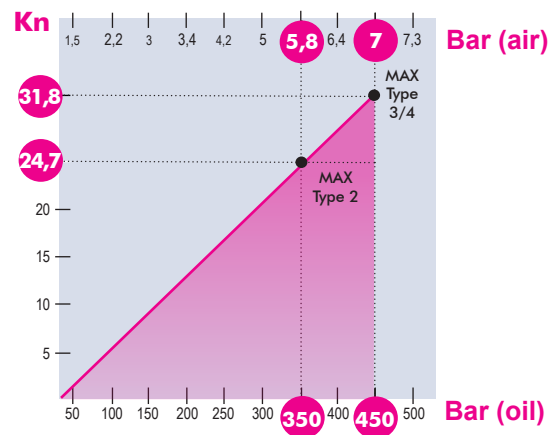
Cilindro idraulico Art. 285 - 569 Ø interno 20 mm - Superficie efficace 3,14 cm²
 Hydraulic cylinder Art. 285 - 569 Cylinder I.D. 20 mm - Effective area 3,14 cm²



Morse tipo
Vises type

2-3-4

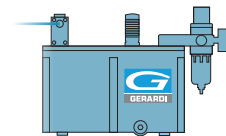
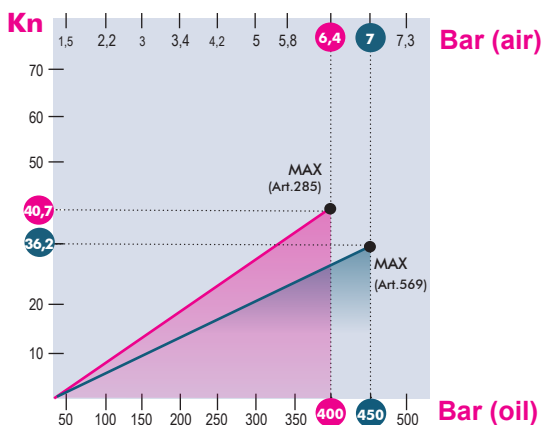
Cilindro idraulico Art. 285 - 569 Ø interno 30 mm - Superficie efficace 7,07 cm²
 Hydraulic cylinder Art. 285 - 569 Cylinder I.D. 30 mm - Effective area 7,07 cm²



Morse tipo
Vises type

5-6

Cilindro idraulico Art. 285 Ø interno 36 mm - Superficie efficace 10,17 cm²
 Cilindro idraulico Art. 569 Ø interno 32 mm - Superficie efficace 8,04 cm²
 Hydraulic cylinder Art. 285 Cylinder I.D. 36 mm - Effective area 10,17 cm²
 Hydraulic cylinder Art. 569 Cylinder I.D. 32 mm - Effective area 8,04 cm²



Art. 393

Art. 393D

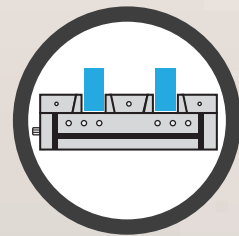
Serraggi tramite gruppi di comando pneumatici e idraulici

I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con le morse di varia grandezza (da 1 a 6), provviste di vari dispositivi di bloccaggio pneumoidraulici ed elettroidraulici, in funzione della pressione dei fluidi (aria e olio). Con centralina pneumoidraulica (Max pressione 450bar)

Clamping through pneumo-hydraulic and hydraulic clamping devices

The following diagrams give the clamping force that can be obtained with each vise type (size 1 to 6) when equipped with pneumo-hydraulic and electro-hydraulic blocking devices, as a function of the fluid pressure (air or oil). With pneumo-hydraulic power unit (Max pressure 450bar)

NB: Alcuni fattori, come la lubrificazione, lo staffaggio, gli attriti ed altro, possono modificare i valori indicati fino a $\pm 10\%$. Per un corretto utilizzo non superare i valori indicati nel grafico
 Some factor as lubrication, clamping on the machine table, frictions and more can modify above values within a $\pm 10\%$ range. For optimum operation do not exceed chart values.



5

*Single, Double
or Self-centering!*

FMS

Morse e Cubi / Vises & Vise Towers

INDICE - INDEX

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62K	67 - 69	805N	54 - 55	810XA	27	860D	14		
81P	50	805O	54 - 55	810Y	27	860E	14		
84U	31	805P	55	810YA	27	860F	14		
90	35	805Q	55	810Z	27	863	16		
99A	67 - 69	805R	55	812	31	863C	46		
99B	67 - 69	805T	55	812A	31	863D	16		
99H	67 - 69	805U	31	812B	31	863E	16		
99S	67 - 69	805UA	31	812C	31	863F	16		
220 G01	58	805V	35	813	31	864	18		
220 G02	58	805VA	35	813A	31	865	20		
220 G11	58	806	22	813C	31	865D	20		
247T	35	806A	22	814	56	865E	20		
375	61	806B	23	815	31	865F	20		
512	57	806C	23	815A	31	866	24		
296	6	806D	23	815C	31	866D	24		
547G	58	806E	23	818	52	866E	24		
547K	58	806F	22	821	53	866F	24		
566	62	806G	23	822	53	867	28		
571	62	806H	23	823	59	867D	28		
800	38	806M	23	823B	59	867E	28		
800A	38	806K	23	825	59	867F	28		
800B	38	806SLD	23	825A	61	868	32		
800C	42	806SLE	23	825B	59	868D	32		
800D	38	807	22	825C	59	868E	32		
800E	61	807A	22	827A	60	868F	32		
800G	42	808	22	828A	60	870	36		
800I	61	808A	22	829A	52	870A	54		
800Z	38	808B	22	830	52	870C	46		
801	50	810	56	831	59	870D	36		
801G	61	810A	56	832	59	870E	36		
801H	61	810B	56	833	59	870F	36		
801I	61	810D	56	834	59	882A	38		
801S	61	810DT	57	835	60	890	62 - 65		
802	12 - 14 - 16 - 20 - 24 - 28 - 32 - 36 - 38	810E	57	836	60	890K/1	62		
804	49	810J	56 - 57	837	60	890K/2	63		
805	54	810K	57	838	60	890K/3	63		
805A	54	810L	57	850B	61	890K/4	64		
805B	54	810M	57	850C	61	891	62		
805C	54	810O	18 - 56 - 57	850E	61	892	62		
805D	55	810P	57	850H	61	900	40		
805DT	55	810Q	31	850P	61	900Y	40		
805E	55	810QA	31	850T	61	983	3		
805F	18 - 54 - 55	810R	57	852	60	DPG250	66		
805G	18 - 55	810T	57	853	60	DIVIGER 205	68		
805H	55	810U	31	855	12				
805I	55	810UA	31	855C	44				
805J	55	810UZ	31	855D	12				
805K	55	810V	57	855E	12				
805L	55	810W	27	855F	12				
		810WA	27	860	14				

VALIGETTA DI CAMPIONATURA FMS (Art.860)

FMS SAMPLE KIT CASE (Art.860)

Art. 983

Art.860 T.1x300



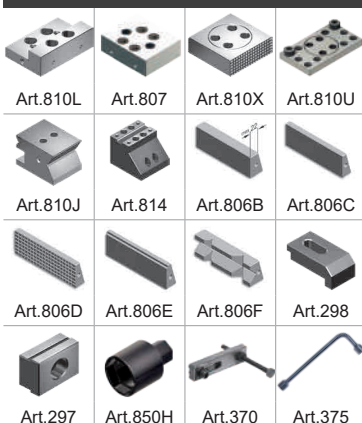
Morsa / Vise Art. 860

Cod. 0.98.30000

 PRICE LIST € ~~3.467~~

SPECIAL PRICE € 1.700

Art. 860 - All'Interno - Inside:



SIMBOLOGIA DATI TECNICI

TECHNICAL DATA ICONS

GANASCE JAWS		POSSIBILITÀ POSSIBILITY								
PIASTRE JAW PLATES		PAGINE PAGES								

OPZIONI LAVORAZIONI EXTRA

OPTIONS FOR EXTRA MACHINING

 Nei codici, **FMS** si riferisce agli articoli dei gruppi 5, 6 e 7.
 In codes, **FMS** refers to articles in groups 5, 6 and 7.

Lavorazione extra Extra machining	Cod.	PRICE LIST €	Lavorazione extra Extra machining	Cod.	PRICE LIST €
AGGIUNTA di un foro calibrato ADDITION of a calibrated hole	MAN-010-FMS	110	MONTAGGIO SEMPLICE SIMPLE ASSEMBLY	MAN-060-FMS	-
AGGIUNTA di una chiave calibrata ADDITION of a calibrated key-way	MAN-020-FMS	110	MONTAGGIO ed ALLINEAMENTO (Standard) (Standard) ASSEMBLY and ALIGNMENT	MAN-070-FMS	110
PREDISPOSIZIONE SEMPLICE SIMPLE SET UP	MAN-030-FMS	110	MONTAGGIO VERTICALE COMPLETE VERTICAL ASSEMBLY	MAN-080-FMS	165
PREDISPOSIZIONE & MONTAGGIO COMPLETO COMPLETE SET UP & MOUNTING	MAN-040-FMS	220	ALLINEAMENTO e CONTROLLO tramite DEA ALIGNMENT and CONTROL by DEA \ CMM	MAN-090-FMS	440
MONTAGGIO PARZIALE PARTIAL ASSEMBLY	MAN-050-FMS	110	TABULATO controllo DEA PRINTOUT DEA control	MAN-100-FMS	220

Vedi pagina 5.70 per esempi applicativi - See page 5.70 for application examples

Morse e cubi morsa / Vises & vise-towers

FMS SERIES


 Precisione / Accuracy
±0,02mm

 Durezza / Hardened
HRC 58±2
Un sistema modulare flessibile con centinaia di ganasce disponibili

A Flexible modular system with hundreds of jaws available

ESTREMA VERSATILITÀ EXTREME VERSATILITY

- 3 posizioni per la ganascia fissa; •Serraggio dall'esterno all'interno e viceversa;
- Posizionamento verticale-orizzontale-laterale; •Collegamento: fianco a fianco, dorso a dorso, fianco a dorso; •Possibilità illimitata per ganasce speciali; •Sostituzione semplice e precisa delle ganasce; •Elemento di prolunga per pezzi fuori misura; •Sistema di serraggio meccanico, idraulico, pneumatico elettrico o con moltiplicatore di potenza, tramite comando manuale, a pedale o mediante pulsante elettrico (vedi pag. 12); •Costruzione solida e compatta e massima apertura rispetto alla sua lunghezza; •Flessioni praticamente ridotte di due volte rispetto alle precedenti morse modulari standard; •Accurata ripetibilità di posizionamento del pezzo da lavorare; •Precisioni geometriche con tolleranze entro 0,02 mm; •Protezione integrale dalla penetrazione di corpi estranei tramite piastre scorrevoli; •Possibilità di trasformazione di ogni morsa singola in morsa autocentrante o in morsa doppia tramite la semplice sostituzione delle ganasce sul corpo base universale. (ESEMPLI APPLICATIVI A PAGINA 5.76).

- 3 positions for the fixed jaw; •Outside to inside clamping and viceversa; •Vertically, horizontally and sideways vise positioning; •Side to side, back to back and back to side vise positioning; •Unlimited special jaws; •Simple and precise exchange of jaws; •Extension element for extra-long pieces; •Mechanic, hydraulic or pneumatic or electrical clamping system or with pressure multiplier, through manual, pedal or push button control (see page 12); •Space saving design, solid construction and maximum blocking ratio to total length; •Deflection reduced two times with respect to the STANDARD modular vises; •Very accurate repeatability of workpiece position; •Geometrical accuracy with tolerances within 0,02 mm; •Integral protection from chips and dirty through sliding protection; •Possibility to transform each single vise in a self-centering vise with possibility to block from outside to inside and vice versa and in a double vise through the simple substitution of the jaws on the universal vise body base. (APPLICATION EXAMPLES ON PAGE 5.76)

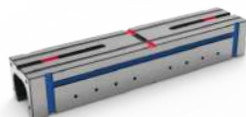
Vite a doppio filetto Double thread spindle



Vite principale (completamente protetta) con filetto destro e sinistro e slitte guidate lunghe quanto il corpo base con più chiavette per ganasce mobili

Completely protected main spindle with left and right thread and guided slides long as the vise base with multiple movable jaw positions

Chiavette di posizionamento Positioning Keyways



Chiavette longitudinali e trasversali sia sulla base per il posizionamento orizzontale, sia in testa per il posizionamento verticale.

Longitudinal and cross keyways both on the base bottom surface for horizontal positioning and on the side for vertical positioning



3 Morse in Una 3 Vises in One



Possibilità di trasformare ogni morsa singola in una morsa autocentrante con bloccaggio concentrico dall'esterno all'interno e viceversa e in morsa doppia tramite la semplice sostituzione delle ganasce sul corpo base universale.

Possibility to transform each single vise in a self-centering vise with the possibility to block from outside to inside and viceversa and in a double vise through the simple substitution of the jaw on the universal vise body base.



Altissima rigidità Highest rigidity

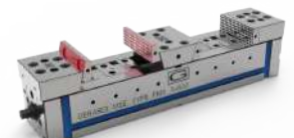


Base della morsa con una sezione doppia per garantire maggiore rigidità. Flessioni ridotte di due volte rispetto alle normali morse modulari standard. Disponibili cubi monoblocco.

Higher vise base in order to guarantee a better rigidity. Bending reduced two times with respect to the standard modular vises. Available solid vise towers



Riconfigurazione Rapidissima Quickest Vise Resetting

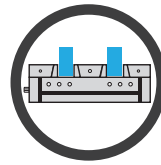


Grazie alla piastra ganascia intercambiabile manualmente tramite sistema a pettine

Thanks to the quick interchangeable jaw plate through ground comb system

Nata espressamente per i centri di lavoro, la gamma FMS permette ottimizzazioni di serraggio con riferimenti precisi in spazi contenuti, usure inesistenti e rigidità impensabile (spessore della base raddoppiato), possibilità di bloccare più pezzi contemporaneamente con l'ausilio di sistemi meccanici, pneumatici, elettrici o idraulici. Tutte sono disponibili/predisposte sia per piazzamenti verticali che orizzontali. Serraggi di qualsiasi lunghezza. La caratteristica (Brevetata) che meglio contraddistingue questa serie di morse consiste nella possibilità di trasformare ogni morsa singola (cioè adibita al serraggio di un singolo pezzo) in una morsa autocentrante con bloccaggio concentrico dall'esterno all'interno e viceversa e in morsa doppia tramite la semplice sostituzione delle ganasce sul corpo base universale. Tutto ciò ne suggerisce l'impiego in situazioni produttive caratterizzate da lotti di pezzi estremamente diversi fra loro riducendo tempi di set-up e garantendo un'accurata ripetibilità di posizionamento e quindi di precisione migliorando l'efficienza globale del sistema produttivo.

Born to be dedicated to machining centres, FMS series of vises allow workholdings with perfect alignment in a space saving design, extremely high wear resistance, with deflection reduced 2 times in respect to the STD modular vises (base thickness doubled), possibility to clamp more pieces simultaneously with mechanic, hydraulic pneumatic or electric devices. You can use them both for vertical and horizontal clamping without any price charge. Grip any work length. The feature (Patented) which identifies this line of vises consists in the possibility to transform each single vise (1 piece clamping) in a self-centering vise with possibility to block from outside to inside and viceversa and in a double vise through the simple substitution of the jaws on the universal vise body base. All that suggests their use in the production of lots of highly different pieces reducing set-up times and assuring very accurate repetability of workpiece position and precision, increasing the global efficiency of the production process.



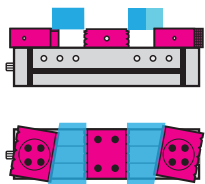
SCAN IT TO SEE



THE WEB PAGE



Singole, Doppie o Autocentranti!
Single, Double or Self-centering!



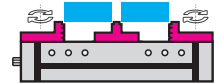
Ganasce Mobili Oscillanti
 per serraggio di pezzi irregolari
 Floating Movable Jaws
 for irregular workpieces



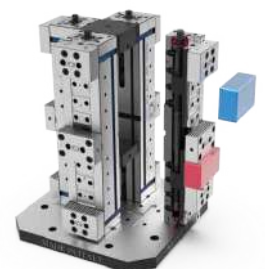
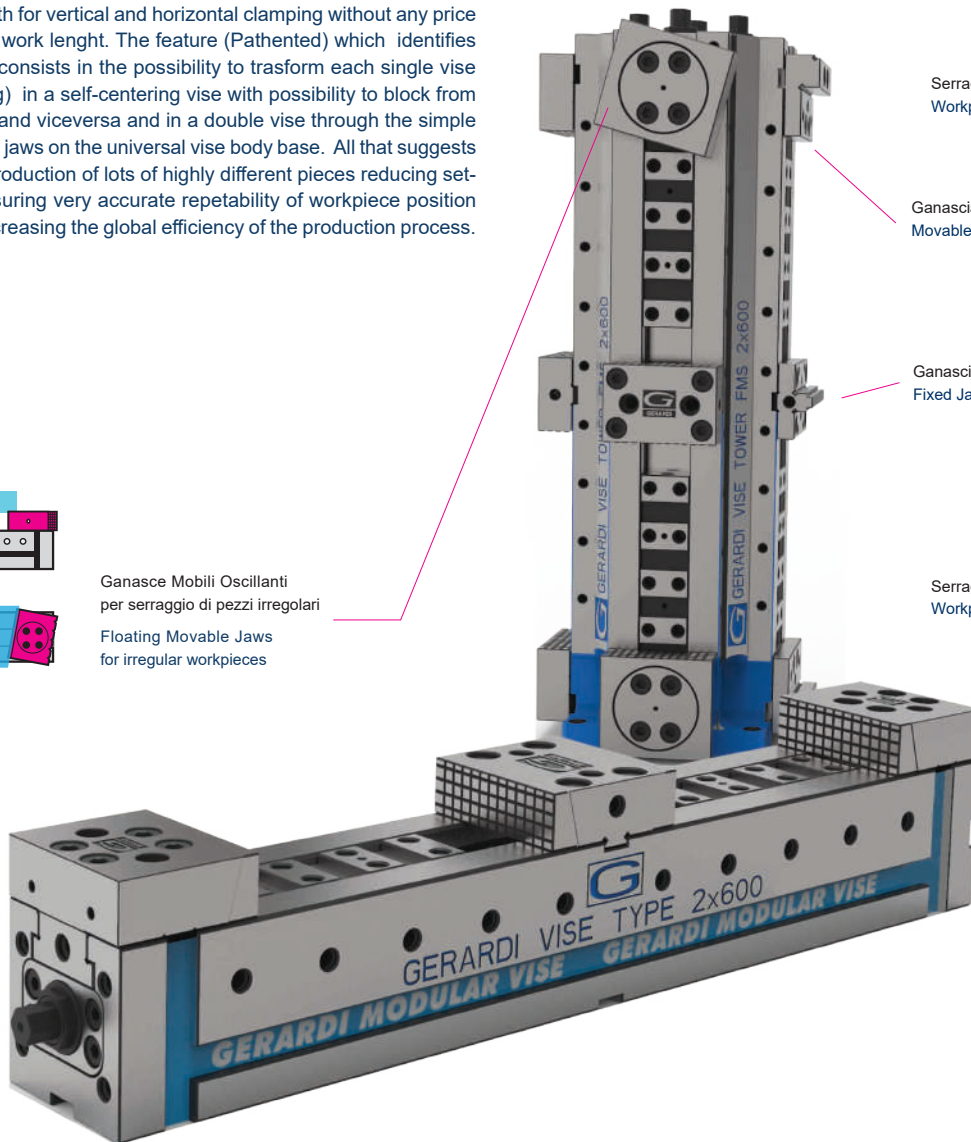
Serraggio particolare su gradino grande
 Workpiece clamping on the large step

Ganascia Mobile Art.810P
 Movable Jaw Art.810P

Ganascia Fissa Art.805Q
 Fixed Jaw Art.805Q



Serraggio particolare su gradino piccolo
 Workpiece clamping on the small step



Sistema a terza mano - Third hand service

Consente il carico e serraggio lieve del primo particolare da lavorare mentre viene caricato il secondo di dimensione maggiore. Molto utile con l'utilizzo verticale della morsa.

It allows the first workpiece loaded to be clamped lightly while the second workpiece is being loaded. Such device is useful especially with the vise vertically positioned

Staffe di ancoraggio / Vise holding clamps

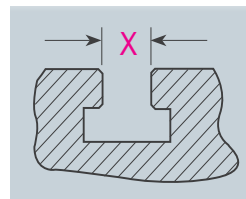
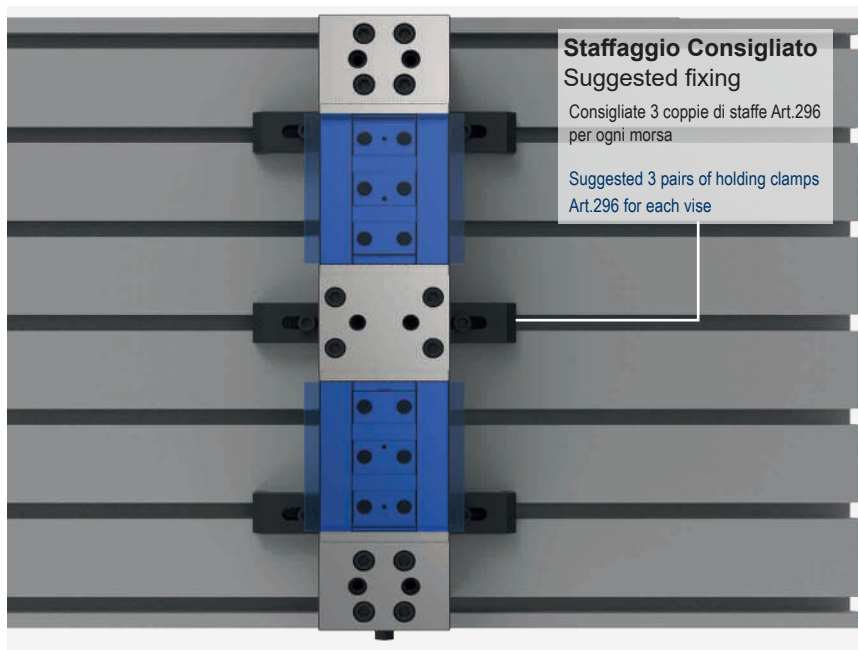
NEW
2024

FMS

Coppia staffe di fissaggio Art.296, complete di vite e dado a "T"
Pair of vise holding clamps Art.296 complete of screw and "T" nuts

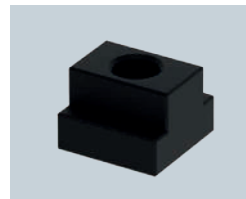
Esempio d'ordine per morsa tipo 3 su macchina con cave a T da 18mm: Art.296 T.3 X=18mm
Oppure con codice: 2.29.6300 X=18mm

 Order example for Type 3 vise on machine with 18mm T-slots: Art.296 T.3 X=18mm

 Also with code: 2.29.6300 X=18mm

Cava a T
T Slot

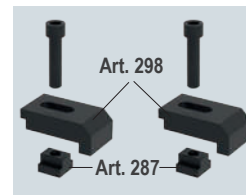
Specificare sempre la cava della vostra macchina

Always specify the machine T-slot dimension


Art.287 (Pag.4.34)
Dadi a T - T Nuts

Per fissaggio morse alle cave a T della macchina

For vise clamping on the machine T-slots


Art.296

(Art.298 + Art.287)

Consigliate 3 coppie di staffe Art.296 per ogni morsa

Suggested 3 pairs of holding clamps Art.296 for each vise

Tipo (grandezza) Type (size)	1				1				2 - 3				4 - 5 - 6																				
Art. 296	Cava a T slot X	12	14	16	18	12*	14	16	18	20	18*	20	22	16	18	20	22	18*	20	22	16	18	20	22	18*	20	22						
	T-nuts Ref. N°	8	9	10	11	12	13	14	20	21	22	32	39	40	20	21	22	23	32	39	40	20	21	22	23	32	39	40					
Coppia di staffe Holding clamps pair	Filetto vite Screw thread	M8				M10				M12 *				M16				M12 *				M16				M12				M16 *			
1 X M8 	A	50	50	50	50	50	50	50	50	76	76	76	76	76	76	76	76	86	86	86	86	86	86	86	86	86	86	86	86				
	B	24	24	24	24	24	24	24	24	30	30	30	30	30	30	30	30	40	40	40	40	40	40	40	40	40	40	40	40				
	C	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	10	10	10	10	10	10	10	10	10	10	10	10				
	ØD	8,5	11	13	17	13	17	17	17	13	17	17	17	13	17	17	17	13	17	17	13	17	17	17	13	17	17	17					
	E	10	10	10	10	10	10	10	10	13	13	13	13	13	13	13	13	15	15	15	15	15	15	15	15	15	15	15	15				
	ØF	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	G / G1	14	16/15	17,5/13	19/9	17/22	16/15	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27				
	H	34	34	34	34	42	42	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50				
	I	8	10	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	J	4	4	4	4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10				
T ± 0,1	15	15	15	15	20	20	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26					
Cod.	2.29.61000 / M8	2.29.61000 / M10	2.29.61000 / M12	2.29.61000 / M16	2.29.63000 / M12	2.29.63000 / M12	2.29.65000 / M12	2.29.65000 / M16	2.29.63000 / M12	2.29.63000 / M12	2.29.65000 / M12	2.29.65000 / M16	2.29.63000 / M12	2.29.63000 / M12	2.29.65000 / M12	2.29.65000 / M16	2.29.63000 / M12	2.29.63000 / M12	2.29.65000 / M12	2.29.65000 / M16	2.29.63000 / M12	2.29.63000 / M12	2.29.65000 / M12	2.29.65000 / M16	2.29.63000 / M12	2.29.63000 / M12	2.29.65000 / M12	2.29.65000 / M16					
€	45	45	45	45	56	56	88	88	56	56	88	88	56	56	88	88	56	56	88	56	56	88	88	56	56	88	88	56	56	88	88		

*Scelta consigliata - Suggested choice

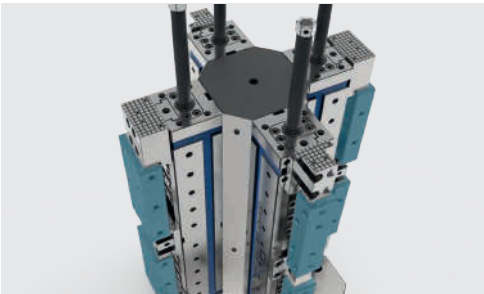
*Scelta NON consigliata - NO Suggested choice

Soluzioni personalizzate / Customized solutions

FMS

Soluzioni personalizzate a tutti i vostri problemi di serraggio

Customized solutions for all your clamping problems

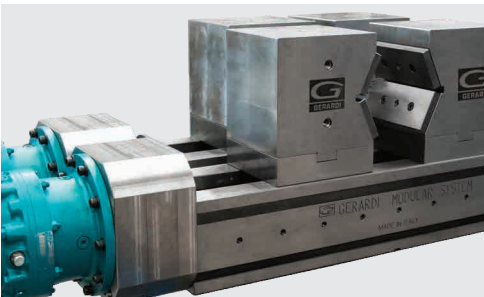


Morse FMS automatizzate in verticale

FMS vises automated vertically mounted

Gestione automatica di morse meccaniche grazie alla predisposizione per connessione con il robot. Lavorazioni del particolare su 3 lati con un unico serraggio evitando il riposizionamento ed una seconda ripresa del particolare da lavorare.

Automated machine setting thanks to the pre-fitting with robot connection. Workpiece machining on 3 sides with one clamping and so avoiding re-positioning and a second machining of the workpiece.

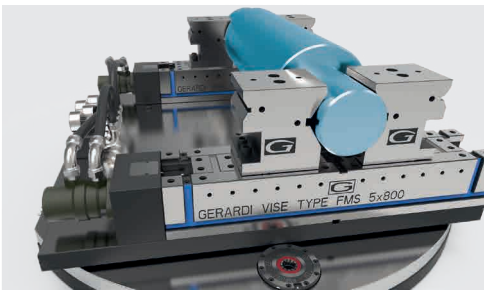


Morsa FMS con riduttore epicicloidale

FMS vise with epicyclic force reducer

Riduttore epicicloidale il quale consente di moltiplicare notevolmente la coppia sviluppata dal motore idraulico consentendo di arrivare a elevate forze di serraggio , fino a 480 kN

Epicyclic force reducer able to multiply greatly the torque generated by the hydraulic engine reaching a very high clamping force, maximum 480kN.



Serraggio automatico di grandi particolari tondi

Round workpieces automatic clamping

Sistema di serraggio meccanico con morse FMS per il serraggio di particolari tondi di grandi dimensioni controllato tramite centralina idraulica da CNC

Quick positioning and clamping with FMS vises of whole equipment on round Zero Point plate through pull-studs and centering pin.

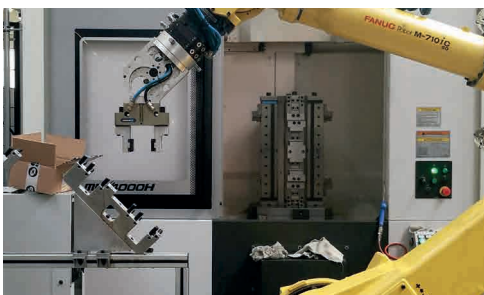


Non solo per centri a 5 assi

Not only for 5th axis machines

Morsa autocentrante FMS su centro di lavoro verticale con ganasce personalizzate in alluminio.

Self Centering FMS vise with taylor made jaws aluminum mounted on Vertical CNC



Morse FMS in verticale con robot

FMS vises vertically mounted + robot

Assieme di morse FMS montate verticalmente su centro orizzontale gestite tramite robot anche per carico e scarico pezzi

FMS vises vertically mounted on horizontal machining center. Both vise clamping and workpieces turnover are operated through automated robotic system.

TRE MORSE IN UNA THREE VISES IN ONE



Acquista il modulo base universale. Una soluzione aperta per il lavoro di oggi pensando a quello di domani !
Buy the base body. A Versatile solution for present and future machining !

CORPO BASE Art.855

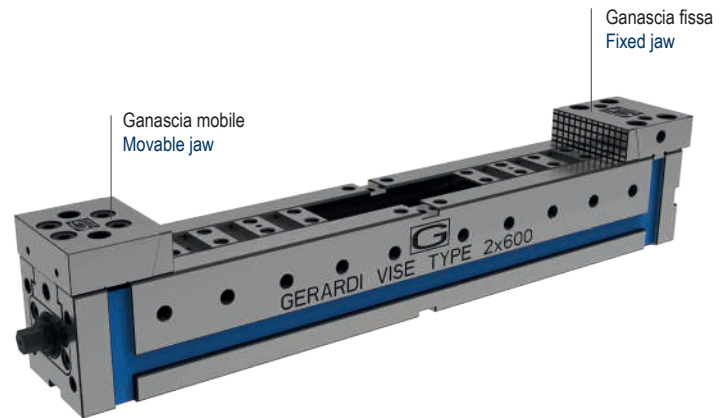
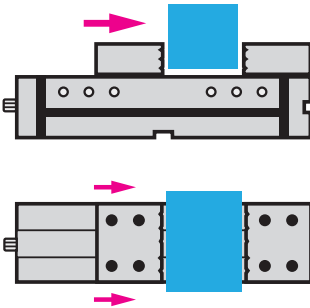
BASE BODY Art.855

Modulo base universale
CENTINAIA DI GANASCE DISPONIBILI !!

Universal vise body module
HUNDREDS OF JAWS AVAILABLE !!

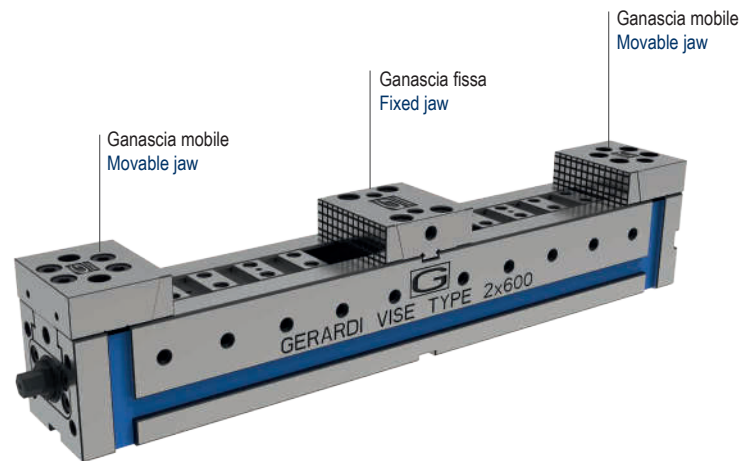
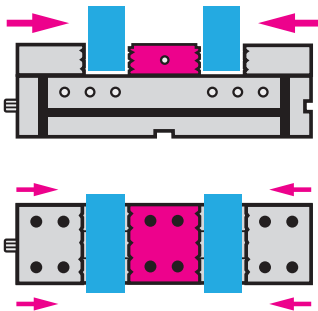
SERRAGGI SINGOLI

SINGLE CLAMPING



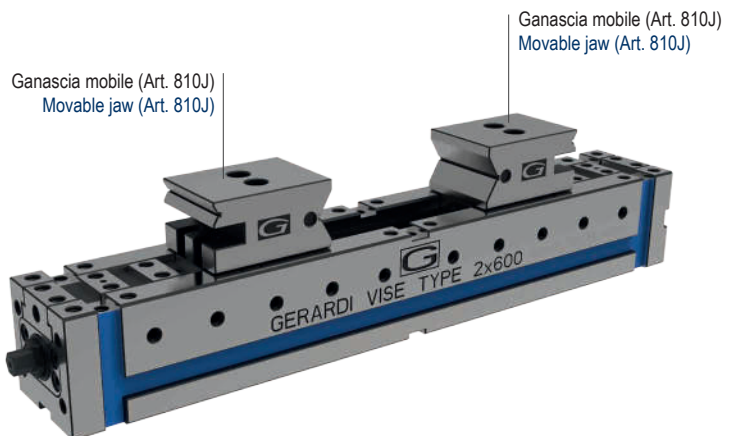
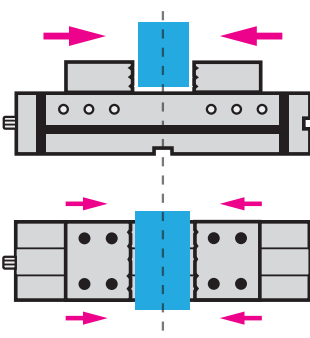
SERRAGGI DOPPI

DOUBLE CLAMPING

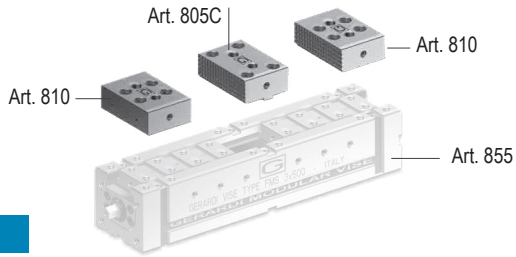


AUTOCENTRANTE

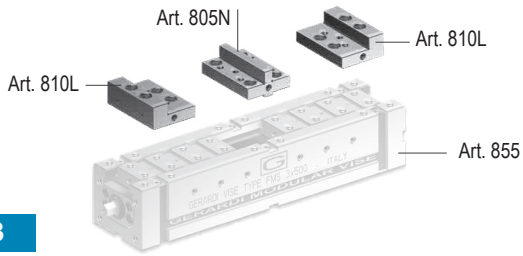
SELF-CENTERING



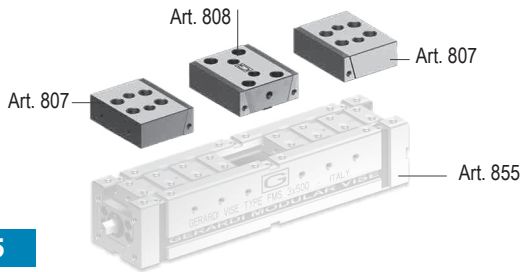
VERSIONI PER SERRAGGI DOPPI
DOUBLE CLAMPING CONFIGURATION



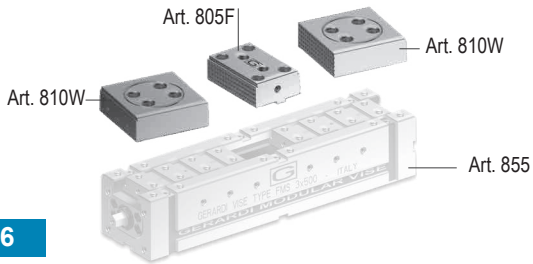
Art. 860



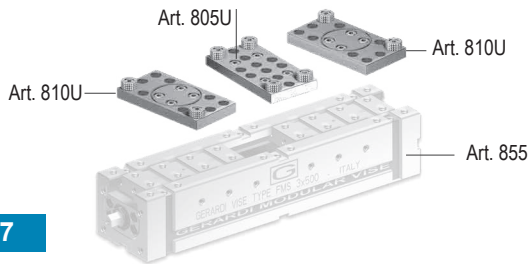
Art. 863



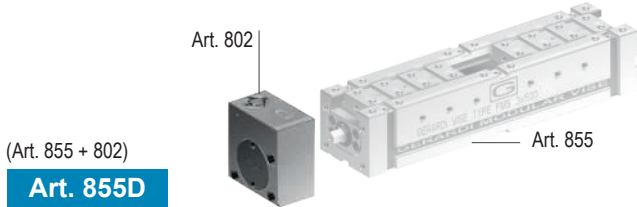
Art. 865



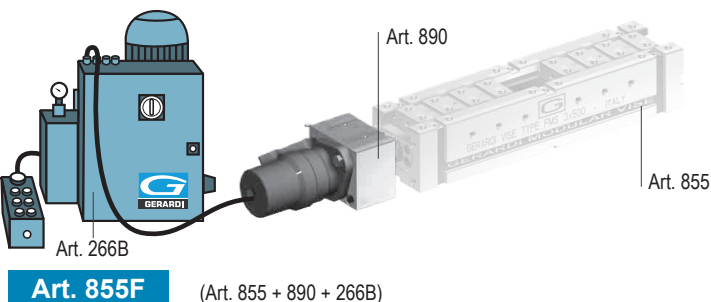
Art. 866



Art. 867



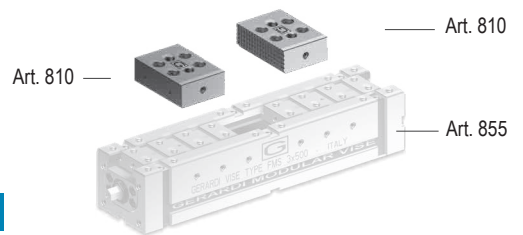
Art. 855D



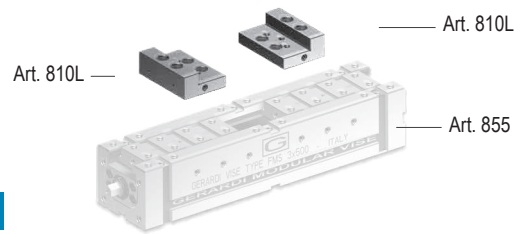
Art. 855F

(Art. 855 + 890 + 266B)

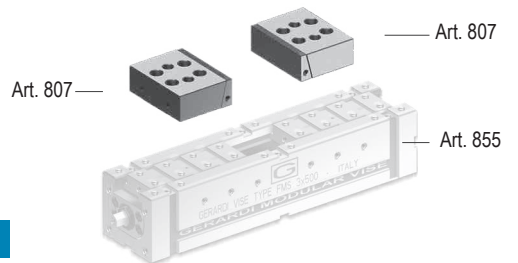
VERSIONI AUTOCENTRANTI
SELF-CENTERING TYPE



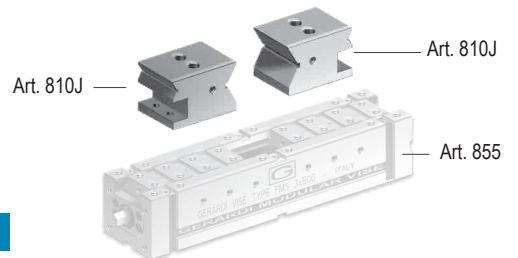
Art. 860



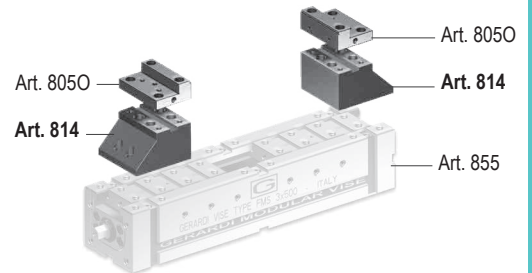
Art. 863



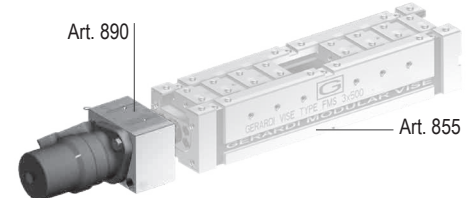
Art. 865



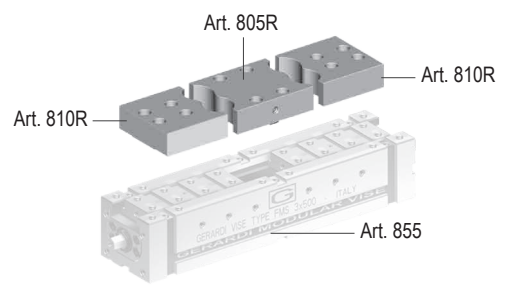
Art. 870



Art. 868

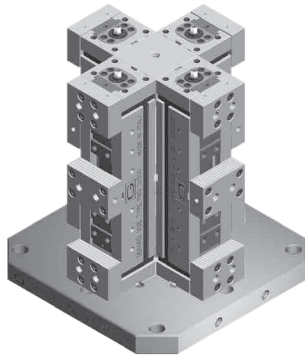


Art. 855E



CUBI DI MORSE MONTATI A CROCE O DORSO A DORSO

WISE TOWERS CROSS OR BACK TO BACK MOUNTED

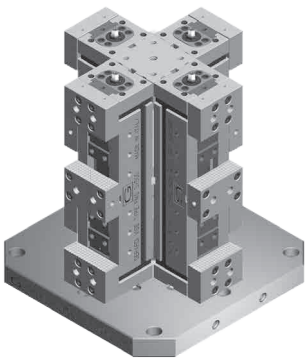


N° 4 MORSE FMS

montate a croce su piastra base (Art. 827A)
 con distanziali (Art. 835)

N° 4 FMS VISES

cross-mounted on base plate (Art. 827A)
 with spacers (Art. 835)

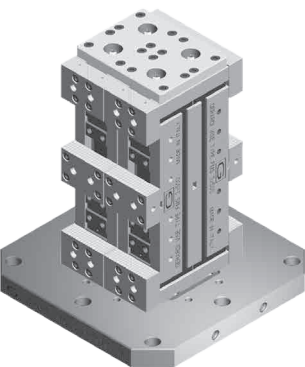


N° 4 MORSE FMS

montate a croce su piastra base (Art. 827A)
 con supporto centrale (Art.836)

N° 4 FMS VISES

cross-mounted on base plate (Art.827A)
 with center support (Art.836)

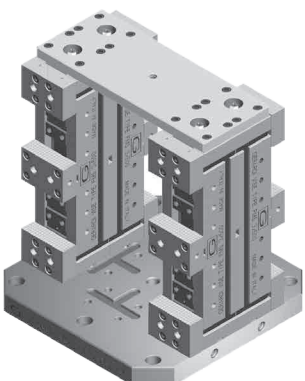


N° 4 MORSE FMS

montate dorso a dorso, fianco a fianco, su piastra base
 (Art. 827) con piastra di collegamento (Art. 832)

N° 4 FMS VISES

cross-mounted back-to-back, side by side, on base
 plate (Art. 827) with connecting plate (Art. 832)

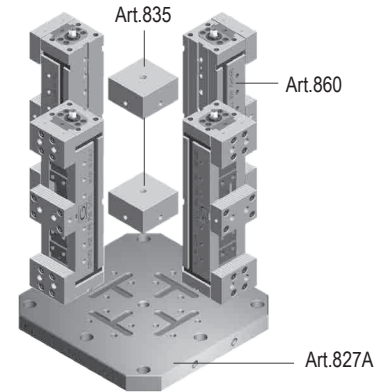


N° 4 MORSE FMS

montate dorso a dorso, su piastra base
 (Art. 827A) con piastra di collegamento (Art. 832)

N° 4 FMS VISES

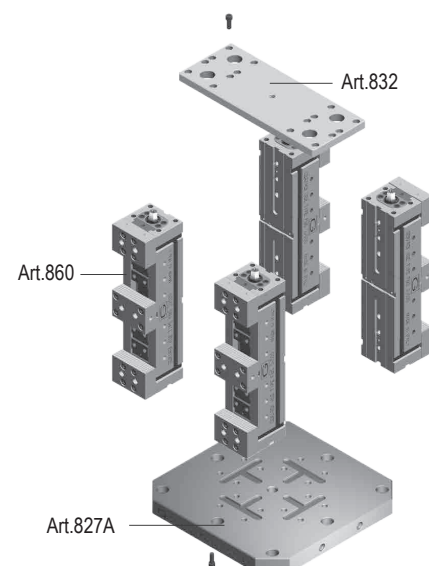
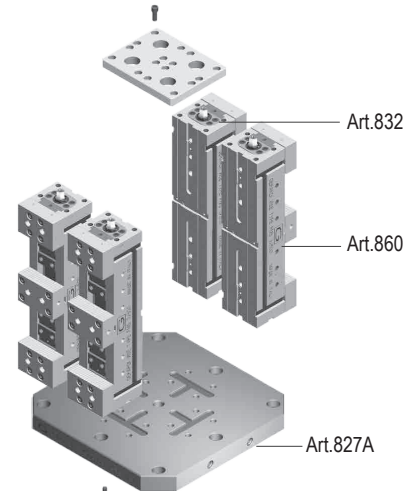
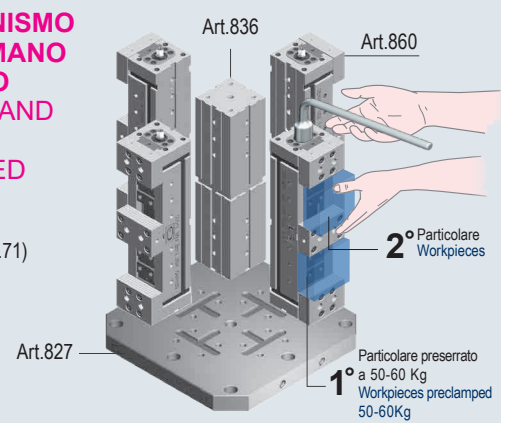
cross-mounted back-to-back, on base plate
 (Art. 827A) with connecting plate (Art. 832)



**MECCANISMO
 TERZA MANO
 INCLUSO
 THIRD HAND
 DEVICE
 INCLUDED**

Art.850P

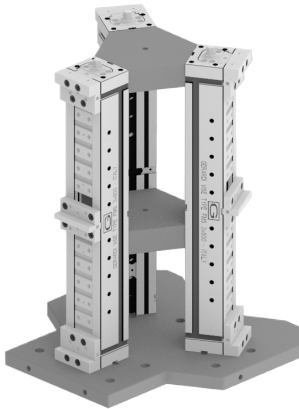
(Pag - Page 5.71)



Montaggio ed allineamento morsa con distanziali, supporto centrale o piastra di collegamento €149 cad.
 Vise and alignment mounted with spacers, center support or connecting plate €149 each

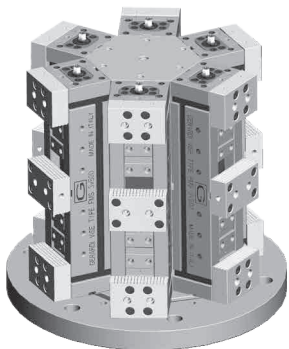
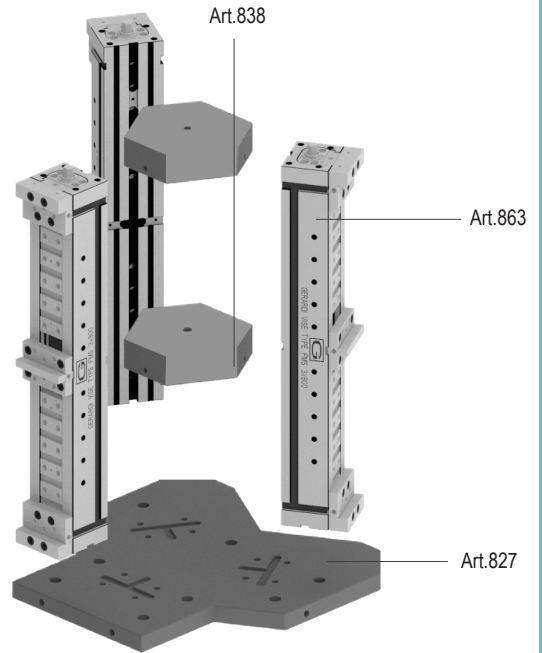
CUBI DI MORSE MONTATI VERTICALMENTE

VISE TOWERS VERTICALLY ASSEMBLED



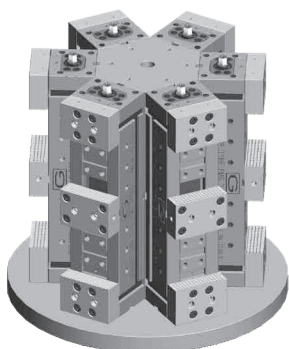
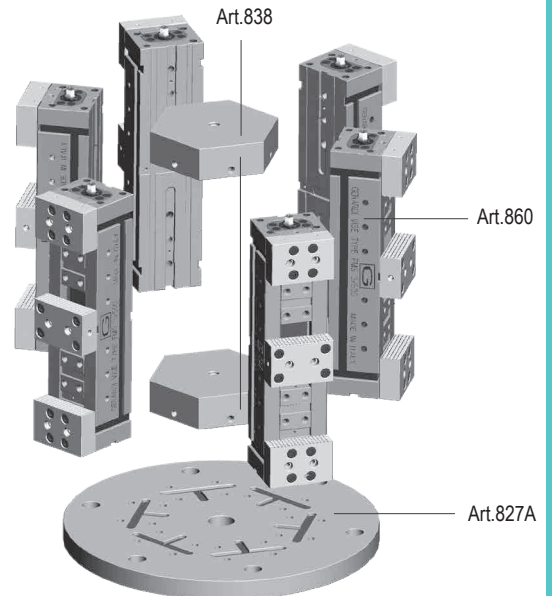
N° 3 morse FMS
 montate verticalmente su piastra base a Y (827)
 con supporto centrale (Art. 838)

N° 3 FMS vises
 vises vertically mounted on Y base plate (827A)
 with exagon center support (Art. 838)



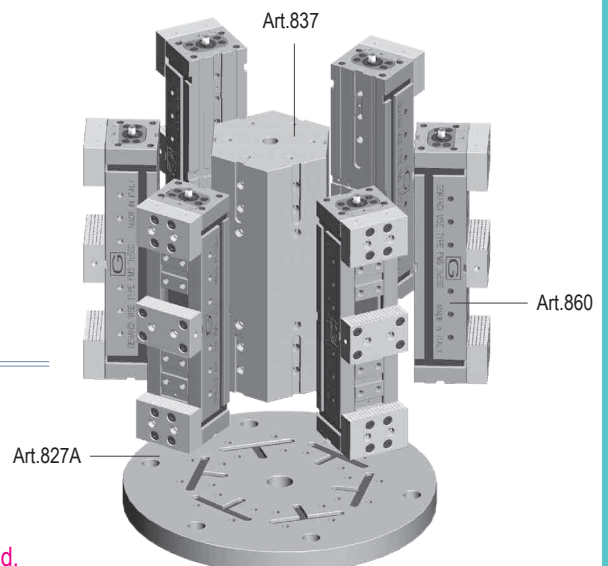
N° 6 morse FMS
 montate verticalmente su piastra base (Art. 827A)
 con distanziali esagonali (Art. 838)

N° 6 FMS vises
 vises vertically mounted on base plate (Art. 827A)
 with exagon spacer (Art. 838)



N° 6 morse FMS montate verticalmente
 su piastra base (Art. 827A)
 con supporto centrale (Art. 837)

N° 6 FMS vises vertically mounted
 on base plate (Art. 827A) with exagon
 center support (Art. 837)

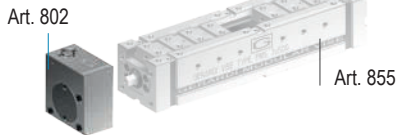


Montaggio ed allineamento morse con distanziali, supporto centrale o piastra di collegamento €149 cad.
 Vise and alignment mounted with spacers, center support or connecting plate €149 each

Tipo (grandezza) morsa / Vise type (size)	kN	1 25 kN		2 25 kN			3 30 kN		
Apertura massima fra le slitte / Maximum opening between slides	A	56	68	96	116	136	156	136	136
	C	70		90			100		
	D	200 + 32	300 + 32	300	400	500	600	400	500
	E	249	349	320	420	520	620	425	525
	G	75		95			125		
	R	74		94			124		
	S	69		89			99		
	T	72	116	102	142	182	222	132	182
	Y	277	377	360	460	560	660	470	570
	X	407	507	537	637	737	837	637	737
	kg	7	10	18	25	32	39	40	45
	Cod.	5.85.51200	5.85.51300	5.85.52300	5.85.52400	5.85.52500	5.85.52600	5.85.53400	5.85.53500
	€	1.302	1.438	1.495	1.365	1.848	2.041	1.986	1.773

Art. 855

 Modulo base universale
CENTINAIA DI GANASCE DISPONIBILI !!

 Universal vise body module
HUNDREDS OF JAWS AVAILABLE !!
Art. 855D


(Art. 855 + 802) Morsa + moltiplicatore di coppia / Vise + torque multiplier

Cod.	5.85.5D120	5.85.5D130	5.85.5D230	5.85.5D240	5.85.5D250	5.85.5D260	5.85.5D340	5.85.5D350
€	2.327	2.465	2.519	2.390	2.874	3.065	3.065	2.856

Moltiplicatore di coppia con rinvio angolare - Mechanical with torque multiplier with angular transmission

Chiave dinamometrica Art.357 (Consigliata) - Torque wrench Art.357 (Suggested)

Cod.	5.80.21000	5.80.22000	5.80.23000
€	1.029	1.029	1.083

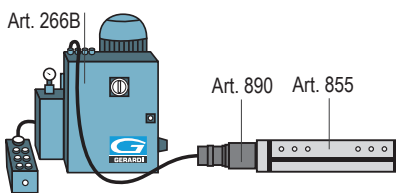
Art. 802

Art. 855E


(Art. 855 + 890) Morsa + motore idraulico / Vise + hydraulic motor

Cod.	5.85.5E120	5.85.5E130	5.85.5E230	5.85.5E240	5.85.5E250	5.85.5E260	5.85.5E340	5.85.5E350
€	2.542	2.680	2.753	2.624	3.108	3.301	3.713	3.499

Meccanica con predisposizione elettroidraulica completa di motore, piastra, boccia e finecorsa

Art. 855F


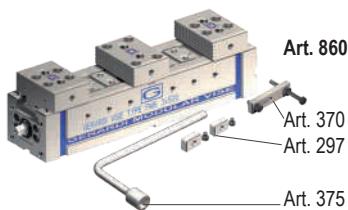
(Art. 855 + 890 + 266B) Morsa + motore idraulico + centralina / Vise + hydraulic motor + power unit

Cod.	5.85.5F120	5.85.5F130	5.85.5F230	5.85.5F240	5.85.5F250	5.85.5F260	5.85.5F340	5.85.5F350
€	10.081	10.219	10.292	10.161	10.648	10.840	11.251	11.038

Meccanica elettroidraulica completa di centralina idraulica apparecchiatura elettrica con pulsantiera

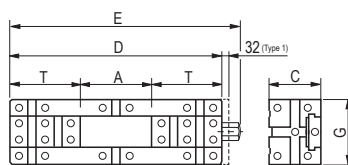
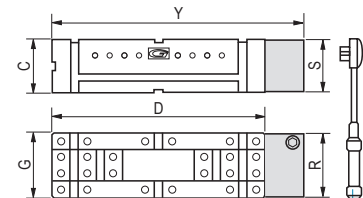
Dotazione standard:

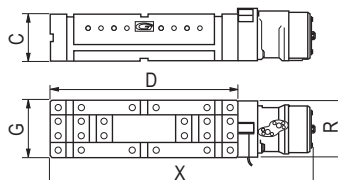
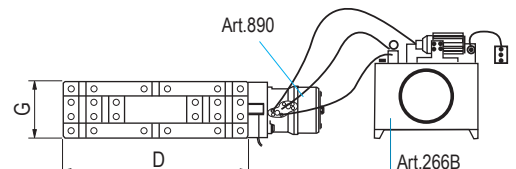
- 2 arresti laterali Art. 370
- 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
- 1 chiave a pipa Art. 375



Standard equipment:

- 2 workstops Art. 370
- 1 pair of positioning key-nuts for 16 mm slot Art. 297
- 1 box wrench Art. 375


Art. 855

Art. 855D

 Art.357 (Incluso)
 Art.357 (Included)

Art. 855E

Art. 855F

	3 30 kN			4 30 kN				5 32 kN			6 32 kN		
A	136	136	136	188	168	148	128	152	216	252	316	280	244
C	100			120				140			160		
D	600	700	800	500	600	700	800	600	700	800	800	900	1000
E	625	725	825	525	625	725	825	625	725	825	825	925	1025
G	125			145				170			190		
R	124			144				169			189		
S	99			119				139			159		
T	232	282	332	156	216	276	336	174	242	274	242	310	378
Y	670	770	870	570	670	770	870	-	-	-	-	-	-
X	837	937	1037	737	837	937	1037	837	937	1037	1037	1137	1237
kg	50	55	60	66	72	80	88	115	125	135	170	190	210
Cod.	5.85.53600	5.85.53700	5.85.53800	5.85.54500	5.85.54600	5.85.54700	5.85.54800	5.85.55600	5.85.55700	5.85.55800	5.85.56800	5.85.56900	5.85.56100
€	2.452	2.726	2.998	2.397	2.280	3.082	3.410	2.861	3.410	3.833	4.585	5.462	6.157

Art. 855D

(Art. 855 + 802) Morsa + moltiplicatore di coppia / Vise + torque multiplier

Cod.	5.85.5D360	5.85.5D370	5.85.5D380	5.85.5D450	5.85.5D460	5.85.5D470	5.85.5D480	5.85.5D560	5.85.5D570	5.85.5D580	5.85.5D680	5.85.5D690	5.85.5D610
€	3.530	3.805	4.078	3.722	3.586	4.406	4.733	4.302	4.849	5.273	6.026	6.901	7.598

Art. 802

Moltiplicatore di coppia con rinvio angolare - Mechanical with torque multiplier with angular transmission

Cod.	5.80.23000			5.80.24000				5.80.25000			5.80.26000		
€	1.083			1.330				1.452			1.442		

Art. 855E

(Art. 855 + 890) Morsa + motore idraulico / Vise + hydraulic motor

Cod.	5.85.5E360	5.85.5E370	5.85.5E380	5.85.5E450	5.85.5E460	5.85.5E470	5.85.5E480	5.85.5E560	5.85.5E570	5.85.5E580	5.85.5E680	5.85.5E690	5.85.5E610
€	4.192	4.452	4.724	4.150	4.013	4.835	5.163	4.835	5.380	5.807	6.585	7.461	8.157

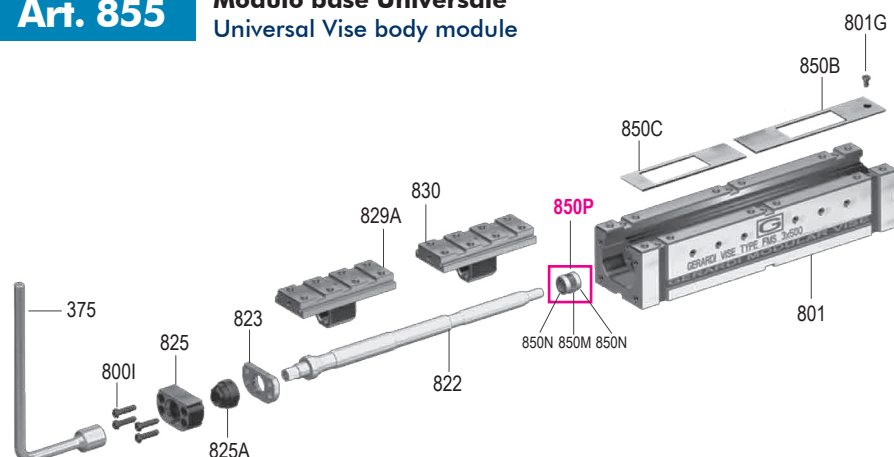
Mechanical with prepared hydraulic connection complete with motor plate, bushing and proximity switch

Art. 855F


(Art. 855 + 890 + 266B) Morsa + motore idraulico + centralina / Vise + hydraulic motor + power unit

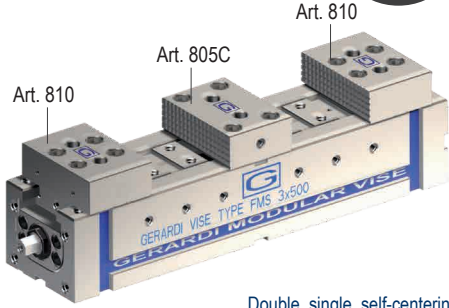
Cod.	5.85.5F360	5.85.5F370	5.85.5F380	5.85.5F450	5.85.5F460	5.85.5F470	5.85.5F480	5.85.5F560	5.85.5F570	5.85.5F580	5.85.5F680	5.85.5F690	5.85.5F610
€	11.717	11.990	12.264	11.690	11.553	12.373	12.701	12.373	12.921	13.372	14.124	15.000	15.697

Mechanical with elettrohydraulic power-pack ready to work

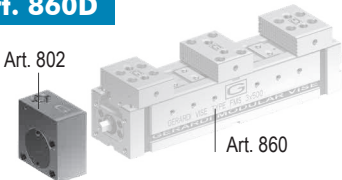
Art. 855
Modulo base Universale
 Universal Vise body module


Art.	Pag.	Art.	Pag.
375	4.35	850C	5.61
800I	5.61	850P	5.72
801G	5.61	-	-
801I	5.61	-	-
822	5.53	-	-
823	5.59	-	-
825	5.59	-	-
825A	5.61	-	-
829A	5.52	-	-
830	5.52	-	-
850B	5.61	-	-

Tipo (grandezza) morsa / Vise type (size)	kN	1		2				3	
		25 kN		25 kN				30 kN	
Apertura massima / Maximum opening	A	2 x 16	2 x 66	2 x 54	2 x 104	2 x 154	2 x 204	2 x 74	2 x 124
Art. 860 Morsa FMS doppia, singola, autocentrante con ganasce zigrinate 	B	25		30				40	
	C	70		90				100	
	D	232	332	300	400	500	600	400	500
	E	249	349	320	420	520	620	425	525
	G	75		95				125	
	J	56		64				84	
	W	74		94				124	
	kg	9	12	22	29	35	42	44	49
	Cod.	5.86.01200	5.86.01300	5.86.02300	5.86.02400	5.86.02500	5.86.02600	5.86.03400	5.86.03500
	€	1.567	1.703	1.925	1.794	2.281	2.471	2.476	2.264



Double, single, self-centering FMS vise with serrated jaws

Art. 860D


(Art. 860 + 802) Morsa + moltiplicatore di coppia / Vise + torque multiplier

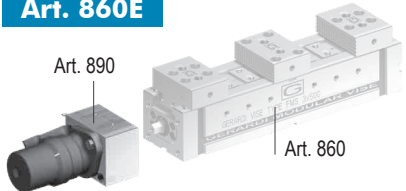
Cod.	5.86.0D120	5.86.0D130	5.86.0D230	5.86.0D240	5.86.0D250	5.86.0D260	5.86.0D340	5.86.0D350
€	2.592	2.730	2.950	2.821	3.306	3.497	3.556	3.346

Moltiplicatore di coppia con rinvio angolare - Mechanical with torque multiplier with angular transmission

Chiave dinamometrica Art.357 (Consigliata) - Torque wrench Art.357 (Suggested)

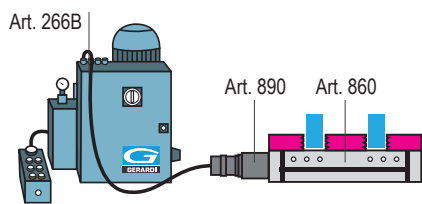
Cod.	5.80.21000	5.80.22000	5.80.23000
€	1.029	1.029	1.083

Art. 802

Art. 860E


(Art. 860 + 890) Morsa + motore idraulico / Vise + hydraulic motor

Cod.	5.86.0E120	5.86.0E130	5.86.0E230	5.86.0E240	5.86.0E250	5.86.0E260	5.86.0E340	5.86.0E350
€	2.806	2.942	3.184	3.054	3.542	3.732	4.204	3.990

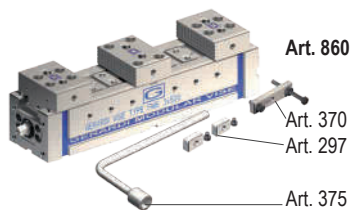
Art. 860F


(Art. 860 + 890 + 266B) Morsa + motore idraulico + centralina / Vise + hydraulic motor + power unit

Cod.	5.86.0F120	5.86.0F130	5.86.0F230	5.86.0F240	5.86.0F250	5.86.0F260	5.86.0F340	5.86.0F350
€	10.346	10.483	10.723	10.593	11.077	11.393	11.741	11.530

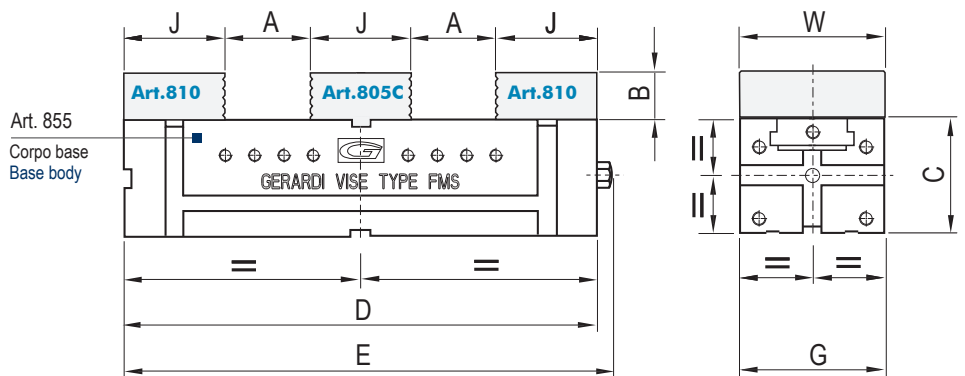
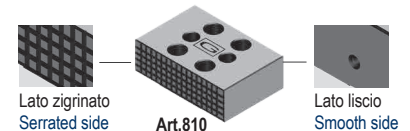
Dotazione standard:

- 2 arresti laterali Art. 370
- 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
- 1 chiave a pipa Art. 375



Standard equipment:

- 2 workstops Art. 370
- 1 pair of positioning key-nuts for 16 mm slot Art. 297
- 1 box wrench Art. 375



	3 30 kN			4 30 kN				5 32 kN			6 32 kN		
A	2 x 174	2 x 224	2 x 274	2 x 103	2 x 153	2 x 203	2 x 253	2 x 138	2 x 188	2 x 238	2 x 238	2 x 288	2 x 338
B	40			50				60			60		
C	100			120				140			160		
D	600	700	800	500	600	700	800	600	700	800	800	900	1000
E	625	725	825	525	625	725	825	625	725	825	825	925	1025
G	125			145				170			190		
J	84			98				108			108		
W	124			144				169			189		
kg	54	59	64	71	79	88	96	130	140	150	210	230	250
Cod.	5.86.03600	5.86.03700	5.86.03800	5.86.04500	5.86.04600	5.86.04700	5.86.04800	5.86.05600	5.86.05700	5.86.05800	5.86.06800	5.86.06900	5.86.06100
€	2.941	3.216	3.490	3.064	2.928	3.749	4.077	3.760	4.307	4.853	5.813	6.688	7.388

Art. 860D (Art. 860 + 802) Morsa + moltiplicatore di coppia / Vise + torque multiplier

Cod.	5.86.0D360	5.86.0D370	5.86.0D380	5.86.0D450	5.86.0D460	5.86.0D470	5.86.0D480	5.86.0D560	5.86.0D570	5.86.0D580	5.86.0D680	5.86.0D690	5.86.0D610
€	4.022	4.296	4.569	4.391	4.254	5.077	5.404	5.200	5.748	6.170	7.255	8.131	8.827

Art. 802 Moltiplicatore di coppia con rinvio angolare - Mechanical with torque multiplier with angular transmission

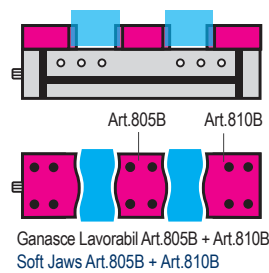
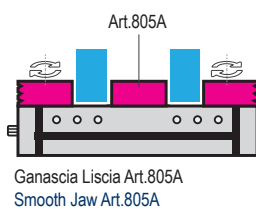
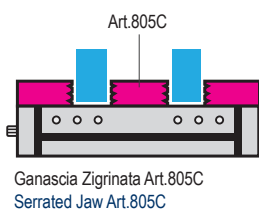
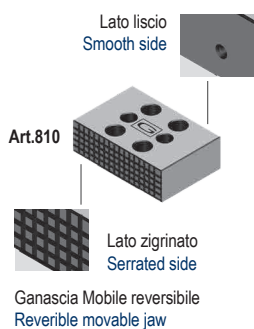
Cod.	5.80.23000	5.80.24000	5.80.25000	5.80.26000
€	1.083	1.330	1.452	1.442

Art. 860E (Art. 860 + 890) Morsa + motore idraulico / Vise + hydraulic motor

Cod.	5.86.0E360	5.86.0E370	5.86.0E380	5.86.0E450	5.86.0E460	5.86.0E470	5.86.0E480	5.86.0E560	5.86.0E570	5.86.0E580	5.86.0E680	5.86.0E690	5.86.0E610
€	4.668	4.942	5.214	4.820	4.683	5.504	5.832	5.735	6.280	6.705	7.815	8.691	9.389

Art. 860F (Art. 860 + 890 + 266B) Morsa + motore idraulico + centralina / Vise + hydraulic motor + power unit

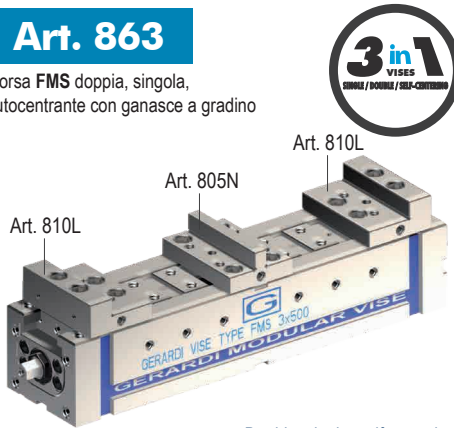
Cod.	5.86.0F360	5.86.0F370	5.86.0F380	5.86.0F450	5.86.0F460	5.86.0F470	5.86.0F480	5.86.0F560	5.86.0F570	5.86.0F580	5.86.0F680	5.86.0F690	5.86.0F610
€	12.206	12.480	12.754	12.357	12.221	13.040	13.371	13.273	13.818	14.243	15.354	16.230	16.926

Art. 860 Esempi applicativi ganasce: Jaw application examples:


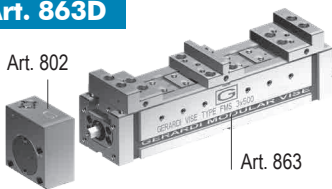
Art.	Pag.
810	5.56
805C	5.54
805A	5.54
805B	5.54
810B	5.56



Tipo (grandezza) morsa / Vise type (size)	kN	1		2				3	
		25 kN		25 kN				30 kN	
Apertura massima / Maximum opening	A	2 x 60	2 x 110	2 x 118	2 x 168	2 x 218	2 x 268	2 x 162	2 x 212
Art. 863	B	25		30				40	
	C	70		90				100	
	D	232	332	300	400	500	600	400	500
	E	249	349	320	420	520	620	425	525
	G	75		95				125	
	J	56		64				84	
	J1	22		24				30	
	J2	16		16				16	
	W	74		94				124	
	kg	8	11	20	27	33	40	40	45
	Cod.	5.86.31200	5.86.31300	5.86.32300	5.86.32400	5.86.32500	5.86.32600	5.86.33400	5.86.33500
	€	1.720	1.857	2.080	1.952	2.436	2.628	2.634	2.420



Double, single, self-centering FMS vise with step jaws

Art. 863D


(Art. 863 + 802) Morsa + moltiplicatore di coppia / Vise + torque multiplier

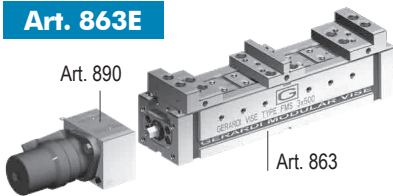
Cod.	5.86.3D120	5.86.3D130	5.86.3D230	5.86.3D240	5.86.3D250	5.86.3D260	5.86.3D340	5.86.3D350
€	2.746	2.881	3.106	2.975	3.460	3.653	3.715	3.500

Moltiplicatore di coppia con rinvio angolare - Mechanical with torque multiplier with angular transmission

Chiave dinamometrica Art.357 (Consigliata) - Torque wrench Art.357 (Suggested)

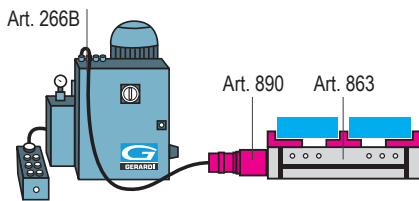
Cod.	5.80.21000	5.80.22000	5.80.23000
€	1.029	1.029	1.083

Art. 802

Art. 863E


(Art. 863 + 890) Morsa + motore idraulico / Vise + hydraulic motor

Cod.	5.86.3E120	5.86.3E130	5.86.3E230	5.86.3E240	5.86.3E250	5.86.3E260	5.86.3E340	5.86.3E350
€	2.962	3.097	3.338	3.211	3.694	3.887	4.359	4.147

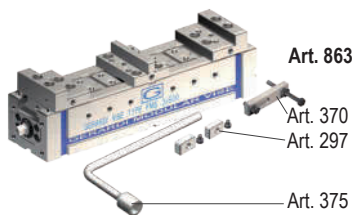
Art. 863F


(Art. 863 + 890 + 266B) Morsa + motore idraulico + centralina / Vise + hydraulic motor + power unit

Cod.	5.86.3F120	5.86.3F130	5.86.3F230	5.86.3F240	5.86.3F250	5.86.3F260	5.86.3F340	5.86.3F350
€	10.496	10.635	10.878	10.748	11.234	11.426	11.896	11.686

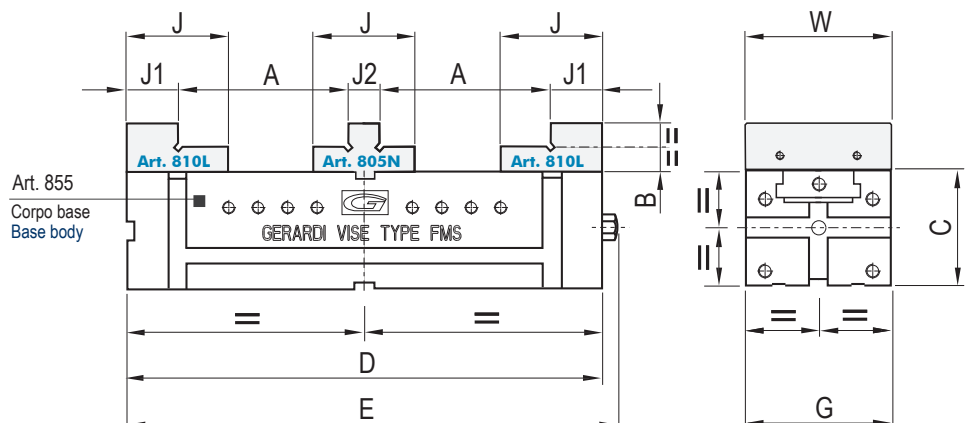
Dotazione standard:

- 2 arresti laterali Art. 370
- 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
- 1 chiave a pipa Art. 375



Standard equipment:

- 2 workstops Art. 370
- 1 pair of positioning key-nuts for 16 mm slot Art. 297



	3 30 kN			4 30 kN				5 32 kN			6 32 kN		
A	2 x 262	2 x 312	2 x 362	2 x 204	2 x 254	2 x 304	2 x 354	2 x 254	2 x 304	2 x 354	2 x 354	2 x 404	2 x 454
B	40			50				60			60		
C	100			120				140			160		
D	600	700	800	500	600	700	800	600	700	800	800	900	1000
E	625	725	825	525	625	725	825	625	725	825	825	925	1025
G	125			145				170			190		
J	84			98				108			108		
J1	30			38				38			38		
J2	16			16				16			16		
W	124			144				169			189		
kg	50	55	60	68	76	85	93	124	134	144	200	220	240
Cod.	5.86.33600	5.86.33700	5.86.33800	5.86.34500	5.86.34600	5.86.34700	5.86.34800	5.86.35600	5.86.35700	5.86.35800	5.86.36800	5.86.36900	5.86.36100
€	3.098	3.373	3.646	3.240	3.104	3.925	4.252	3.998	4.543	4.967	6.071	6.949	7.647

Art. 863D (Art. 863 + 802) Morsa + moltiplicatore di coppia / Vise + torque multiplier

Cod.	5.86.3D360	5.86.3D370	5.86.3D380	5.86.3D450	5.86.3D460	5.86.3D470	5.86.3D480	5.86.3D560	5.86.3D570	5.86.3D580	5.86.3D680	5.86.3D690	5.86.3D610
€	4.178	4.453	4.725	4.565	4.431	5.250	5.580	5.436	5.984	6.407	7.514	8.390	9.089

Art. 802 Moltiplicatore di coppia con rinvio angolare - Mechanical with torque multiplier with angular transmission

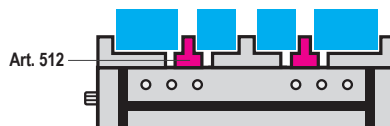
Cod.	5.80.23000			5.80.24000				5.80.25000			5.80.26000		
€	1.083			1.330				1.452			1.442		

Art. 863E (Art. 863 + 890) Morsa + motore idraulico / Vise + hydraulic motor

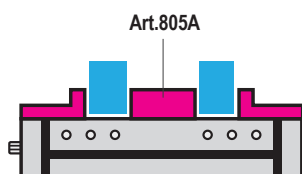
Cod.	5.86.3E360	5.86.3E370	5.86.3E380	5.86.3E450	5.86.3E460	5.86.3E470	5.86.3E480	5.86.3E560	5.86.3E570	5.86.3E580	5.86.3E680	5.86.3E690	5.86.3E610
€	4.825	5.098	5.372	4.996	4.858	5.680	6.005	5.971	6.517	6.941	8.075	8.950	9.647

Art. 863F (Art. 863 + 890 + 266B) Morsa + motore idraulico + centralina / Vise + hydraulic motor + power unit

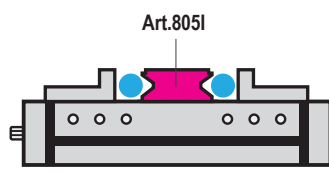
Cod.	5.86.3F360	5.86.3F370	5.86.3F380	5.86.3F450	5.86.3F460	5.86.3F470	5.86.3F480	5.86.3F560	5.86.3F570	5.86.3F580	5.86.3F680	5.86.3F690	5.86.3F610
€	12.362	12.636	12.909	12.534	12.398	13.217	13.546	13.510	14.055	14.481	15.612	16.488	17.186

Art. 863 Esempi applicativi ganasce: / Jaw application examples:


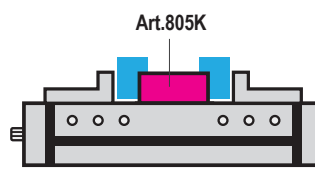
Serraggio simultaneo di 4 pezzi con ganasce intermedia
 4 Workpieces simultaneous clamping with intermediate jaw



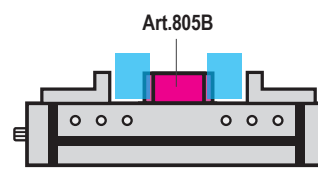
Ganasce lisce per fissaggio centrale
 Smooth jaws for central fixed



Ganasca prismatica orizzontale per fissaggio centrale
 Horizontal prismatic jaws for central fixed

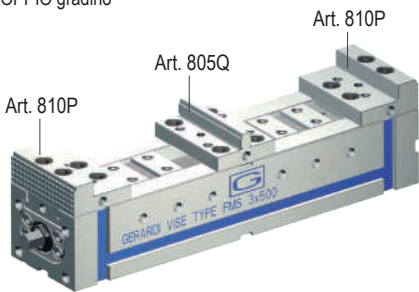


Ganasca prismatica verticale per fissaggio centrale
 Vertical prismatic jaw for central fixed



Ganasca lavorabile per fissaggio centrale
 Soft jaws for central fixed

Tipo (grandezza) morsa / Vise type (size)	kN	1 25 kN		2 25 kN			3 30 kN		
Apertura massima / Maximum opening	A	2 x 32	2 x 82	2 x 54	2 x 104	2 x 154	2 x 204	2 x 77	2 x 127
Art. 864	A1	2 x 84	2 x 134	2 x 118	2 x 168	2 x 218	2 x 268	2 x 162	2 x 212
Morsa FMS doppia, singola, autocentrante con ganasce a DOPPIO gradino	B	25		30			40		
	C	70		90			100		
	D	232	332	300	400	500	600	400	500
	E	249	349	320	420	520	620	425	525
	G	75		95			125		
	J	56		64			84		
	J1	24		24			30		
	J2	16		16			16		
	W	74		94			124		
	kg	8	11	20	27	33	40	40	45
	Cod.	5.86.41200	5.86.41300	5.86.42300	5.86.42400	5.86.42500	5.86.42600	5.86.43400	5.86.43500
	€	1.866	2.002	2.227	2.097	2.581	2.773	2.778	2.567



Double, single, self-centering FMS vise with DOUBLE step jaws

Art. 805F

 Ganasce fissa con doppio gradino 3x5 LISCIA
 Fixed jaw with double 3x5 step SMOOTH


Cod.	5.80.5F100	5.80.5F200	5.80.5F300
€	163	217	242

Art. 805G

 Ganasce fissa con doppio gradino 3x5 ZIGRINATA
 Fixed jaw with double 3x5 step SERRATED

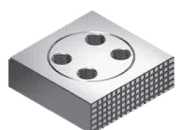

Cod.	5.80.5G100	5.80.5G200	5.80.5G300
€	163	217	242

Art. 8100

 Ganasce mobile con gradino piccolo e grande
 Movable jaw with small and large step


Cod.	5.81.00100	5.81.00200	5.81.00300
€	164	221	243

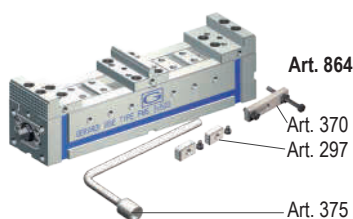
Art. 810X

 Ganasce mobile oscillante con gradino 3x5 zigrinata da un lato con albero a gradino (Art. 810Z)
 Floating movable jaw with 3x5 step one side serrated with step block pin (Art. 810Z)


Cod.	5.81.0X100	5.81.0X200	5.81.0X300
€	302	333	379

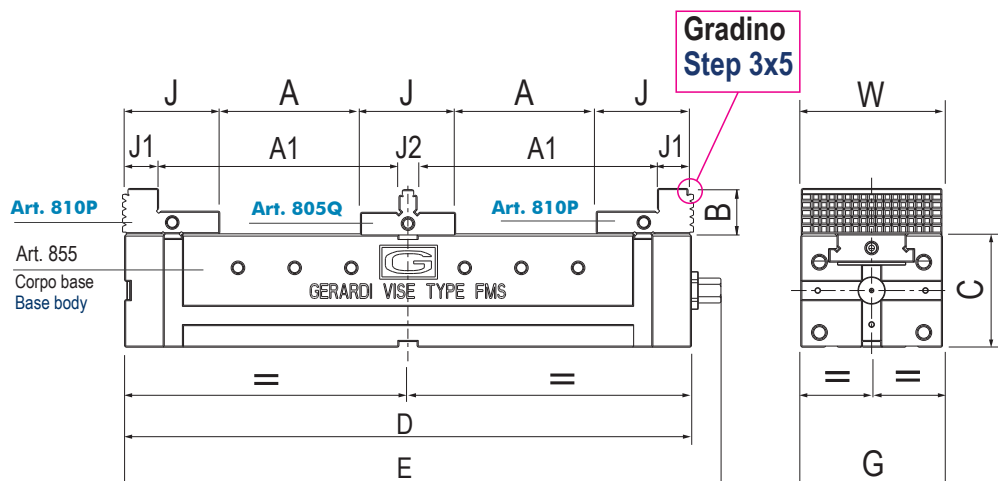
Dotazione standard:

- 2 arresti laterali Art. 370
- 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
- 1 chiave a pipa Art. 375



Standard equipment:

- 2 workstops Art. 370
- 1 pair of positioning key-nuts for 16 mm slot Art. 297
- 1 box wrench Art. 375



	3 30 kN			4 30 kN				5 32 kN			6 32 kN		
A	2 x 177	2 x 227	2 x 277	2 x 103	2 x 153	2 x 203	2 x 253	2 x 138	2 x 188	2 x 238	2 x 238	2 x 288	2 x 338
A1	2 x 262	2 x 312	2 x 362	2 x 204	2 x 254	2 x 304	2 x 354	2 x 254	2 x 304	2 x 354	2 x 354	2 x 404	2 x 454
B	40			50				60			60		
C	100			120				140			160		
D	600	700	800	500	600	700	800	600	700	800	800	900	1000
E	625	725	825	525	625	725	825	625	725	825	825	925	1025
G	125			145				170			190		
J	84			98				108			108		
J1	30			38				38			38		
J2	16			16				16			16		
W	124			144				169			189		
kg	50	55	60	68	76	85	93	124	134	144	200	220	240
Cod.	5.86.43600	5.86.43700	5.86.43800	5.86.44500	5.86.44600	5.86.44700	5.86.44800	5.86.45600	5.86.45700	5.86.45800	5.86.46800	5.86.46900	5.86.46100
€	3.245	3.517	3.791	3.387	3.249	4.070	4.399	4.142	4.688	5.113	6.219	7.095	7.793

Art. 805F

Cod.	5.80.5F300	5.80.5F400	5.80.5F500	5.80.5F300
€	242	299	374	486

Art. 805G

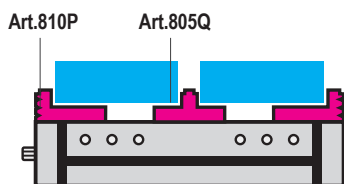
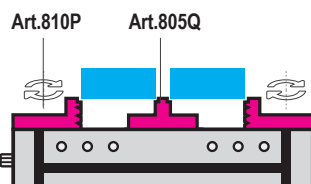
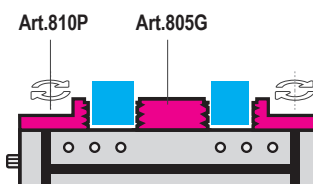
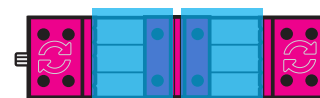
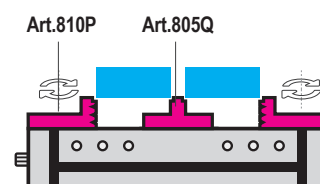
Cod.	5.80.5G300	5.80.5G400	5.80.5G500	5.80.5G600
€	242	299	374	486

Art. 810O

Cod.	5.81.0O300	5.81.0O400	5.81.0O500	5.81.0O600
€	243	300	375	489

Art. 810X

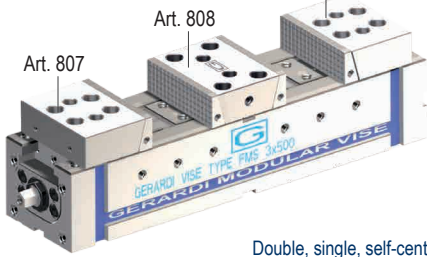
Cod.	5.81.0X300	5.81.0X400	5.81.0X500	5.81.0X600
€	379	424	473	588

Art. 864
Esempi applicativi ganasce a doppio gradino:
 Double step jaw application examples:

 Utilizzo del gradino standard per alzare il particolare rispetto alla base
 Use the main step for raising the workpiece

 Per utilizzare il 2° gradino (3x5) ruotare le ganasce mobili di 180°
 In order to use the second 3x5mm step turn the movable jaw 180°

 Per sfruttare il lato zigrinato delle ganasce mobili Art.810P sostituisci la ganascia fissa centrale con l'Art.805G
 To exploit the serrated side of the movable jaws Art.810P change the fixed central jaw with Art.805G


Tipo (grandezza) morsa / Vise type (size)	kN	1		2			3	
		25 kN		25 kN			30 kN	
Apertura massima / Maximum opening	A	2 x 52	2 x 30	2 x 80	2 x 130	2 x 180	2 x 46	2 x 96
Art. 865	B	25		30			40	
	C	70		90			100	
	D	332	300	400	500	600	400	500
	E	349	320	420	520	620	425	525
	G	75		95			125	
	J	63		76			98	
	J1	70		88			111	
	W	74		94			124	
	kg	12	23	30	36	43	46	51
	Cod.	5.86.51300	5.86.52300	5.86.52400	5.86.52500	5.86.52600	5.86.53400	5.86.53500
	€	2.053	2.249	2.120	2.604	2.798	2.951	2.735

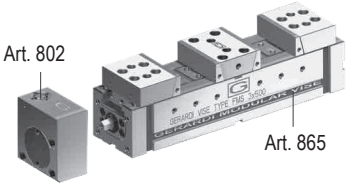


Morsa FMS doppia, singola, autocentrante con ganasce a cambio rapido discendente (sistema a pettine)



Double, single, self-centering FMS vise with quick change pull down jaws (comb system)

Art. 865D (Art. 865 + 802) Morsa + moltiplicatore di coppia / Vise + torque multiplier



Cod.	5.86.5D130	5.86.5D230	5.86.5D240	5.86.5D250	5.86.5D260	5.86.5D340	5.86.5D350
€	3.080	3.274	3.143	3.628	3.820	4.033	3.819

Moltiplicatore di coppia con rinvio angolare - Mechanical with torque multiplier with angular transmission

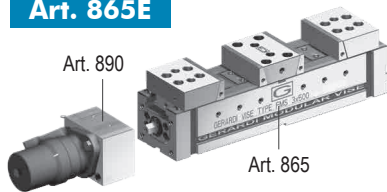
Chiave dinamometrica Art.357 (Consigliata) - Torque wrench Art.357 (Suggested)

Art. 802



Cod.	5.80.21000	5.80.22000	5.80.23000
€	1.029	1.029	1.083

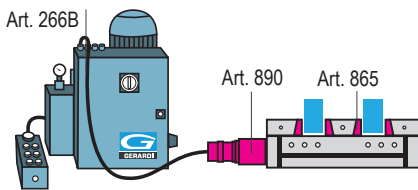
Art. 865E



(Art. 865 + 890) Morsa + motore idraulico / Vise + hydraulic motor

Cod.	5.86.5E130	5.86.5E230	5.86.5E240	5.86.5E250	5.86.5E260	5.86.5E340	5.86.5E350
€	3.293	3.509	3.379	3.865	4.056	4.678	4.467

Art. 865F

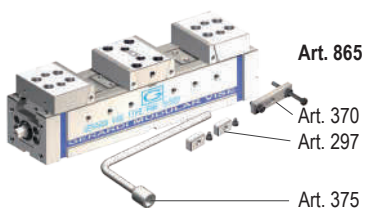


(Art. 865 + 890 + 266B) Morsa + motore idraulico + centralina / Vise + hydraulic motor + power unit

Cod.	5.86.5F130	5.86.5F230	5.86.5F240	5.86.5F250	5.86.5F260	5.86.5F340	5.86.5F350
€	10.831	11.046	10.915	11.401	11.594	12.217	12.004

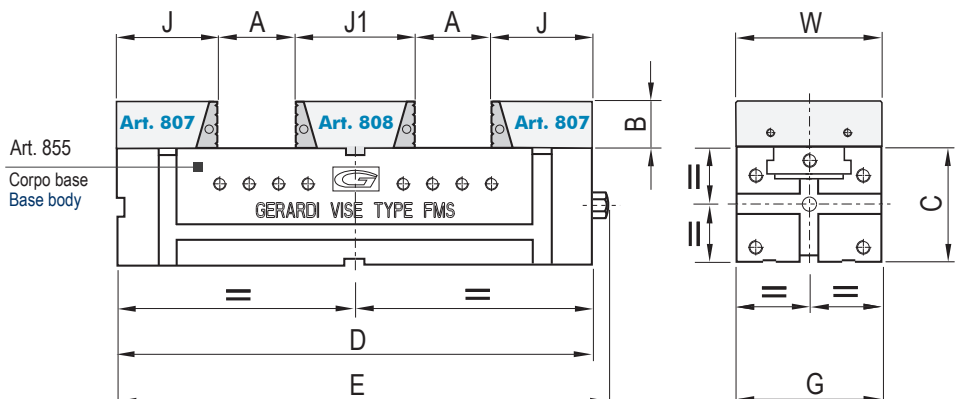
Dotazione standard:

- 2 arresti laterali Art. 370
- 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
- 1 chiave a pipa Art. 375



Standard equipment:

- 2 workstops Art. 370
- 1 pair of positioning key-nuts for 16 mm slot Art. 297
- 1 box wrench Art. 375



	3 30 kN			4 30 kN				5 32 kN			6 32 kN		
A	2 x 146	2 x 196	2 x 246	2 x 65	2 x 115	2 x 165	2 x 215	2 x 90	2 x 140	2 x 190	2 x 216	2 x 256	2 x 316
B	40			50				60			60		
C	100			120				140			160		
D	600	700	800	500	600	700	800	600	700	800	800	900	1000
E	625	725	825	525	625	725	825	625	725	825	825	925	1025
G	125			145				170			190		
J	98			117				132			119		
J1	111			136				155			130		
W	124			144				169			189		
kg	54	59	64	74	82	91	99	134	144	154	215	235	255
Cod.	5.86.53600	5.86.53700	5.86.53800	5.86.54500	5.86.54600	5.86.54700	5.86.54800	5.86.55600	5.86.55700	5.86.55800	5.86.56800	5.86.56900	5.86.56100
€	3.418	3.689	3.963	3.675	3.540	4.358	4.685	4.620	5.167	5.590	6.959	7.834	8.530

Art. 865D (Art. 865 + 802) Morsa + moltiplicatore di coppia / Vise + torque multiplier

Cod.	5.86.5D360	5.86.5D370	5.86.5D380	5.86.5D450	5.86.5D460	5.86.5D470	5.86.5D480	5.86.5D560	5.86.5D570	5.86.5D580	5.86.5D680	5.86.5D690	5.86.5D610
€	4.499	4.771	5.044	5.000	4.862	5.684	6.013	6.059	6.607	7.029	8.397	9.273	9.970

Art. 802 Moltiplicatore di coppia con rinvio angolare - Mechanical with torque multiplier with angular transmission

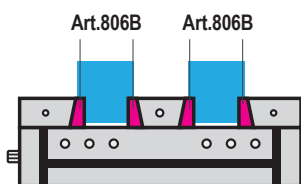
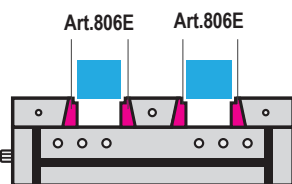
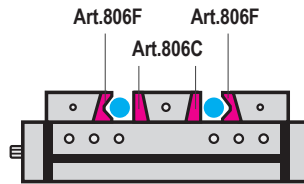
Cod.	5.80.23000	5.80.24000	5.80.25000	5.80.26000
€	1.083	1.330	1.452	1.442

Art. 865E (Art. 865 + 890) Morsa + motore idraulico / Vise + hydraulic motor

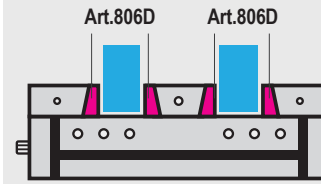
Cod.	5.86.5E360	5.86.5E370	5.86.5E380	5.86.5E450	5.86.5E460	5.86.5E470	5.86.5E480	5.86.5E560	5.86.5E570	5.86.5E580	5.86.5E680	5.86.5E690	5.86.5E610
€	5.141	5.416	5.690	5.429	5.293	6.113	6.441	6.591	7.138	7.563	8.958	9.835	10.530

Art. 865F (Art. 865 + 890 + 266B) Morsa + motore idraulico + centralina / Vise + hydraulic motor + power unit

Cod.	5.86.5F360	5.86.5F370	5.86.5F380	5.86.5F450	5.86.5F460	5.86.5F470	5.86.5F480	5.86.5F560	5.86.5F570	5.86.5F580	5.86.5F680	5.86.5F690	5.86.5F610
€	12.681	12.954	13.229	12.967	12.829	13.649	13.979	14.131	14.678	15.101	16.497	17.371	18.070

Art. 865 Esempi applicativi piastre ganasce: / Jaw plates application examples:

 Piastre ganasce lavorabili Art.806B
 Soft machineable Jaw plates Art.806B

 Piastre ganasce a gradino Art.806E
 Step jaw plates Art.806E

 2 piastre ganasce Art.806F + 2 Art.806C
 2 jaw plates Art.806F + 2 Art.806C

Configurazione standard / Standard configuration

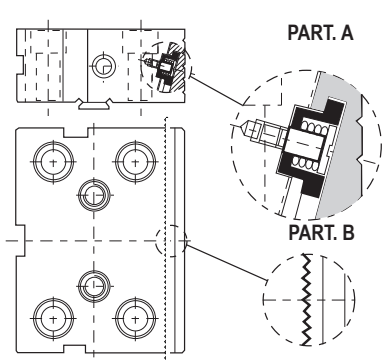

 Piastre ganasce zigrinate Art.806D
 Serrated jaw plates Art.806D

CORPI GANASCE FMS & PIASTRE GANASCE INTERCAMBIABILI RAPIDE

FMS COMB JAW BODIES & QUICK INTERCHANGEABLE JAW PLATES

Tipo (grandezza) / Type (size)	1	2	3	4	5	6
Art. 806* Ganaschia fissa con piastra ganaschia zigrinata intercambiabile rapida Fixed jaw with quick interchangeable serrated jaw plate	Cod. 5.80.61000 € 180	Cod. 5.80.62000 € 245	Cod. 5.80.63000 € 285	Cod. 5.80.64000 € 375	Cod. 5.80.65000 € 517	Cod. 5.80.66000 € 700
* Viti per fissaggio a richiesta Fixing screws on request						
Art. 807* Ganaschia mobile con piastra ganaschia zigrinata intercambiabile rapida Movable jaw with quick interchangeable serrated jaw plate	Cod. 5.80.71000 € 180	Cod. 5.80.72000 € 245	Cod. 5.80.73000 € 285	Cod. 5.80.74000 € 375	Cod. 5.80.75000 € 517	Cod. 5.80.76000 € 700
* Viti per fissaggio a richiesta Fixing screws on request						
Art. 808* Ganaschia fissa doppia con piastre ganasche zigrinate intercambiabili rapide Double fixed jaw with quick interchangeable serrated jaw plate	Cod. 5.80.81000 € 264	Cod. 5.80.82000 € 274	Cod. 5.80.83000 € 403	Cod. 5.80.84000 € 533	Cod. 5.80.85000 € 731	Cod. 5.80.86000 € 982
* Viti per fissaggio a richiesta Fixing screws on request						
Art. 806A Corpo ganaschia fissa per piastra ganaschia intercambiabile rapida Fixed jaw body for quick interchangeable jaw plate	Cod. 5.80.6A100 € 114	Cod. 5.80.6A200 € 174	Cod. 5.80.6A300 € 200	Cod. 5.80.6A400 € 269	Cod. 5.80.6A500 € 365	Cod. 5.80.6A600 € 526
Art. 807A Corpo ganaschia mobile per piastra ganaschia intercambiabile rapida Movable jaw body for quick interchangeable jaw plate	Cod. 5.80.7A100 € 114	Cod. 5.80.7A200 € 174	Cod. 5.80.7A300 € 200	Cod. 5.80.7A400 € 269	Cod. 5.80.7A500 € 365	Cod. 5.80.7A600 € 526
Art. 808A Corpo ganaschia fissa doppia per piastre ganasche intercambiabili rapide Double fixed jaw body for quick interchangeable jaw plate	Cod. 5.80.8A100 € 128	Cod. 5.80.8A200 € 132	Cod. 5.80.8A300 € 231	Cod. 5.80.8A400 € 317	Cod. 5.80.8A500 € 424	Cod. 5.80.8A600 € 556
Art. 808B Corpo ganaschia fissa doppia ridotta per piastre ganasche intercambiabili rapide Double fixed jaw body narrow for quick interchangeable jaw plate	Cod. 5.80.8B100 € 264	Cod. 5.80.8B200 € 274	Cod. 5.80.8B300 € 403	Cod. 5.80.8B400 € 533	Cod. 5.80.8B500 € 731	Cod. 5.80.8B600 € 982

5



RAPIDA SOSTITUZIONE DELLE PIASTRE GANASCE DISCENDENTI SENZA BISOGNO DI ALCUN UTENSILE

Il nuovo sistema con piastre ganasche intercambiabili, conferisce alla morsa FMS un ulteriore aumento di flessibilità dato dalla rapidità di sostituzione delle piastre ganasche e dalla precisione di riposizionamento. La rapidità di sostituzione delle piastre ganasche è resa possibile dal nuovo sistema con perno a molla (PART. A), mentre le righe prismatiche (PART. B) effettuate con mola sagomata sui piani d'appoggio rendono possibile un riposizionamento di elevata precisione. La vasta gamma di piastre ganasche intercambiabili va a soddisfare le più svariate esigenze di lavorazione.

QUICK HAND CHANGE OF PULL-DOWN JAW PLATES - NO TOOLS NEEDED

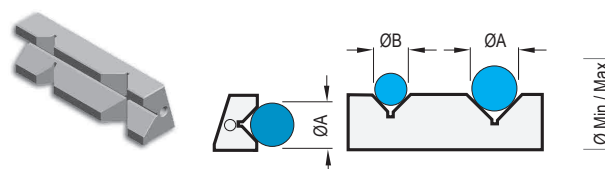
The new system with quick interchangeable jaw plates, increase the FMS vise flexibility, and feature the quick jaw plates replacement and their high precision repositioning. The quickness of the jaw plates replacement is allowed by the new system of pin with spring (PART. A), while the prismatic grooves (PART. B), made with shaped grind wheel on the surface plates, allow a perfect repositioning. The wide range of interchangeable jaws plates can satisfy the most varied working needs.

Art. 806F

Piastra ganaschia intercambiabile prismatica a pettine
 Prismatic comb interchangeable jaw plate

Solo 2 per morsa!! Just 2 pcs each vise!!						
Cod.	5.80.6F100	5.80.6F200	5.80.6F300	5.80.6F400	5.80.6F500	5.80.6F600
€ each	127	136	162	205	289	382

Piastra ganaschia intercambiabile prismatica a pettine
 Per serraggi autocentranti è necessario ordinare n. 2 piastrine prismatiche
 Prismatic comb interchangeable jaw plate
 For self-centering clamping is necessary to order n. 2 prismatic jaws



Ø Min / Max	A	B	C	D	E	F
A	6 / 16	9 / 24	13 / 38	15 / 40	15 / 42	15 / 42
B	4 / 10	7 / 18	9 / 24	9 / 24	9 / 24	9 / 24

PIASTRE GANASCE INTERCAMBIABILI RAPIDE

QUICK INTERCHANGEABLE JAW PLATES

Tipo (grandezza) / Type (size)	1	2	3	4	5	6	
	W	73	93	123	143	168	188
	B	25	30	40	50	60	60
	C	10	10	11	11	16	16

Art. 806B	1	2	3	4	5	6
Piastra ganascia lavorabile a pettine Soft comb jaw plate						
Cod.	5.80.6B100	5.80.6B200	5.80.6B300	5.80.6B400	5.80.6B500	5.80.6B600
€	79	86	101	129	180	236

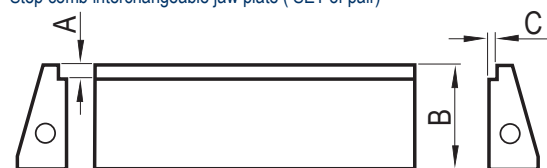
Art. 806C	1	2	3	4	5	6
Piastra ganascia liscia a pettine Smooth comb jaw plate						
Cod.	5.80.6C100	5.80.6C200	5.80.6C300	5.80.6C400	5.80.6C500	5.80.6C600
€	95	105	128	158	223	296

Art. 806D	1	2	3	4	5	6
Piastra ganascia zigrinata a pettine Serrated comb jaw plate						
Cod.	5.80.6D100	5.80.6D200	5.80.6D300	5.80.6D400	5.80.6D500	5.80.6D600
€	95	105	128	158	223	296

Art. 806E	1	2	3	4	5	6
Piastra ganascia a gradino a pettine Step comb jaw plate						
Cod.	5.80.6E100	5.80.6E200	5.80.6E300	5.80.6E400	5.80.6E500	5.80.6E600
€	95	105	128	158	223	296

KIT RISPARMIO - SAVING KIT

Piastra ganascia intercambiabile a gradino a pettine (SET di coppie)
 Step comb interchangeable jaw plate (SET of pair)



A	Set di 8 pezzi Set of 8 pcs.		Set di 10 pezzi Set of 10 pcs.		Set di 14 pezzi Set of 14 pcs.		Set di 14 pezzi Set of 14 pcs.		Set di 14 pezzi Set of 14 pcs.		Set di 14 pezzi Set of 14 pcs.	
	3	5	3	5	3	5	3	5	3	5	3	5
	8	13	8	13	8	13	8	13	8	13	8	13
	-	-	-	-	18	23	18	23	18	23	18	23
B	25	30	30	40	40	50	50	60	60	60	60	60
C	3	3	3	3	3	3	3	3	3	3	3	3
Cod.	5.80.6E112	5.80.6E212	5.80.6E312	5.80.6E412	5.80.6E512	5.80.6E612						
€	450	742	1.038	1.301	1.851	2.451						

Art. 806SLD	1	2	3	4	5	6
Piastra ganascia scaricata a pettine Discharged comb jaw plate						
A	28	38	48	58	63	95
B	12	12	12	12	12	12
C	14	18	32	42	47	79
H	8	8	8	8	8	8

Art. 806SLE	1	2	3	4	5	6
Piastra ganascia con gradino scaricata a pettine Discharged step comb jaw plate						
Cod.	5.80.6SLD1	5.80.6SLD2	5.80.6SLD3	5.80.6SLD4	5.80.6SLD5	5.80.6SLD6
Cod.	5.80.6SLE1	5.80.6SLE2	5.80.6SLE3	5.80.6SLE4	5.80.6SLE5	5.80.6SLE6
€	95	105	128	158	223	296

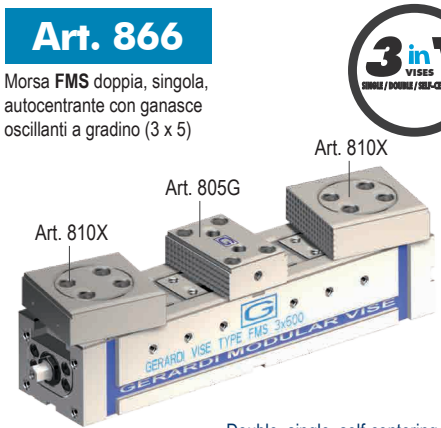
Art. 806K	1	2	3	4	5	6
Piastra ganascia a gradino a pettine con inserti GRIP Comb step jaw plate with GRIP inserts						
C	14	18	32	42	47	79
H	23	33	43	53	58	73
Cod.	5.80.6K100	5.80.6K200	5.80.6K300	5.80.6K400	5.80.6K500	5.80.6K600
€	149	171	217	251	319	422

Art. 806G	1 per stazione di serraggio !! 1 pc per clamping station !!					
Piastra ganascia a pettine con arresto a 90° 90° comb jaw plate						
Cod.	5.80.6G100	5.80.6G200	5.80.6G300	5.80.6G400	5.80.6G500	5.80.6G600
€	95	105	128	158	223	296

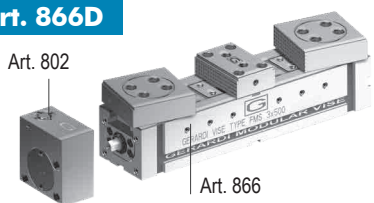
Art. 806H	1	2	3	4	5	6
Piastra ganascia bombata a pettine Round comb jaw plate						
Cod.	5.80.6H100	5.80.6H200	5.80.6H300	5.80.6H400	5.80.6H500	5.80.6H600
€	95	105	128	158	223	296

Art. 806M	1 per stazione di serraggio !! 1 pc per clamping station !!					
Piastra ganascia a pettine per angolo di 30° o 45° 30° or 45° angle comb jaw plate						
Cod.	5.80.6M100	5.80.6M200	5.80.6M300	5.80.6M400	5.80.6M500	5.80.6M600
€	127	136	162	205	289	382

Tipo (grandezza) morsa / Vise type (size)	kN	1		2			3	
		25 kN		25 kN			30 kN	
Apertura massima / Maximum opening	A	2 x 52	2 x 30	2 x 80	2 x 130	2 x 180	2 x 46	2 x 96
Art. 866	B	25		30			40	
	C	70		90			100	
	D	332	300	400	500	600	400	500
	E	349	320	420	520	620	425	525
	G	75		95			125	
	J	63		76			98	
	J1	70		88			111	
	W	74		94			124	
	kg	12	23	30	36	43	46	51
	Cod.	5.86.61300	5.86.62300	5.86.62400	5.86.62500	5.86.62600	5.86.63400	5.86.63500
	€	2.197	2.371	2.242	2.728	2.918	2.973	2.761



Double, single, self-centering FMS vise with floating step jaws (3 x 5)

Art. 866D


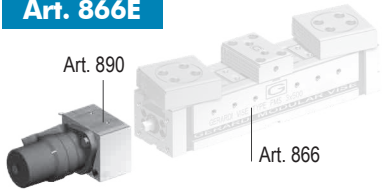
(Art. 866 + 802) Morsa + moltiplicatore di coppia / Vise + torque multiplier

Cod.	5.86.6D130	5.86.6D230	5.86.6D240	5.86.6D250	5.86.6D260	5.86.6D340	5.86.6D350
€	3.223	3.396	3.266	3.753	3.943	4.055	3.842

 Moltiplicatore di coppia con rinvio angolare - Mechanical with torque multiplier with angular transmission
 Chiave dinamometrica Art.357 (Consigliata) - Torque wrench Art.357 (Suggested)

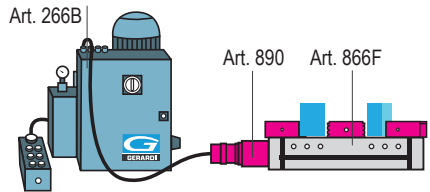
Art. 802


Cod.	5.80.21000	5.80.22000	5.80.23000
€	1.029	1.029	1.083

Art. 866E


(Art. 866 + 890) Morsa + motore idraulico / Vise + hydraulic motor

Cod.	5.86.6E130	5.86.6E230	5.86.6E240	5.86.6E250	5.86.6E260	5.86.6E340	5.86.6E350
€	3.439	3.628	3.499	3.985	4.177	4.699	4.487

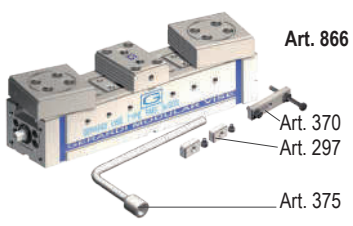
Art. 866F


(Art. 866 + 890 + 266B) Morsa + motore idraulico + centralina / Vise + hydraulic motor + power unit

Cod.	5.86.6F130	5.86.6F230	5.86.6F240	5.86.6F250	5.86.6F260	5.86.6F340	5.86.6F350
€	10.977	11.168	11.038	11.525	11.717	12.239	12.025

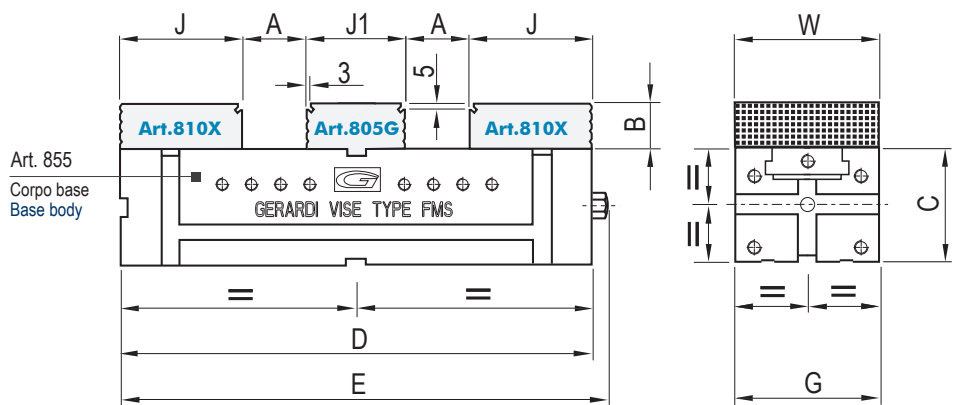
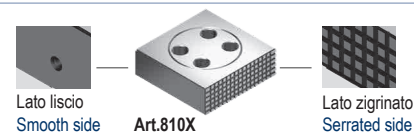
Dotazione standard:

- 2 arresti laterali Art. 370
- 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
- 1 chiave a pipa Art. 375



Standard equipment:

- 2 workstops Art. 370
- 1 pair of positioning key-nuts for 16 mm slot Art. 297
- 1 box wrench Art. 375



3 30 kN				4 30 kN				5 32 kN			6 32 kN		
A	2 x 152	2 x 202	2 x 252	2 x 73	2 x 123	2 x 173	2 x 223	2 x 111	2 x 161	2 x 211	2 x 203	2 x 235	2 x 303
B	40			50				60			60		
C	100			120				140			160		
D	600	700	800	500	600	700	800	600	700	800	800	900	1000
E	625	725	825	525	625	725	825	625	725	825	825	925	1025
G	125			145				170			190		
J	106			128				135			143		
J1	84			98				108			108		
W	124			144				169			189		
kg	54	59	64	74	82	91	99	134	144	154	215	235	255
Cod.	5.86.63600	5.86.63700	5.86.63800	5.86.64500	5.86.64600	5.86.64700	5.86.64800	5.86.65600	5.86.65700	5.86.65800	5.86.66800	5.86.66900	5.86.66100
€	3.439	3.713	3.985	3.527	3.391	4.212	4.540	4.175	4.722	5.143	6.260	7.133	7.833

Art. 866D (Art. 866 + 802) Morsa + moltiplicatore di coppia / Vise + torque multiplier

Cod.	5.86.6D360	5.86.6D370	5.86.6D380	5.86.6D450	5.86.6D460	5.86.6D470	5.86.6D480	5.86.6D560	5.86.6D570	5.86.6D580	5.86.6D680	5.86.6D690	5.86.6D610
€	4.519	4.793	5.067	4.855	4.720	5.540	5.867	5.490	6.163	6.585	7.698	8.574	9.272

Art. 802 Moltiplicatore di coppia con rinvio angolare - Mechanical with torque multiplier with angular transmission

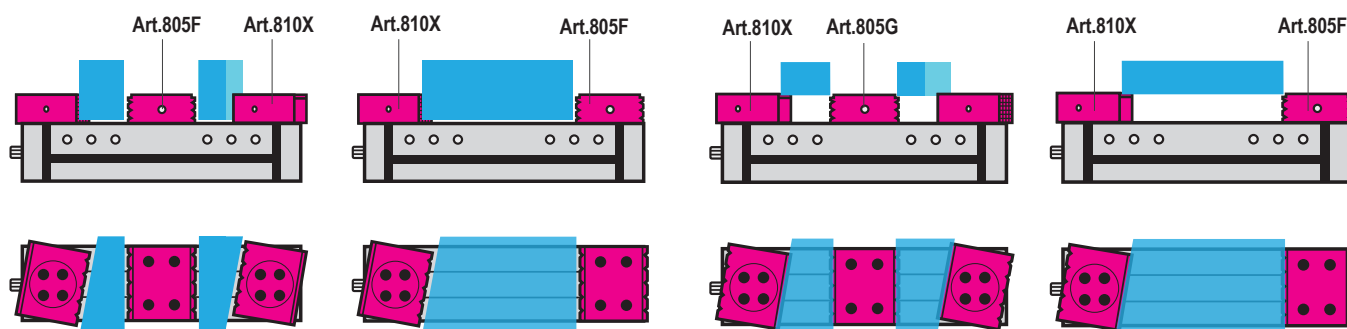
Cod.	5.80.23000				5.80.24000				5.80.25000				5.80.26000			
€	1.083				1.330				1.452				1.442			

Art. 866E (Art. 866 + 890) Morsa + motore idraulico / Vise + hydraulic motor

Cod.	5.86.6E360	5.86.6E370	5.86.6E380	5.86.6E450	5.86.6E460	5.86.6E470	5.86.6E480	5.86.6E560	5.86.6E570	5.86.6E580	5.86.6E680	5.86.6E690	5.86.6E610
€	5.166	5.437	5.711	5.284	5.147	5.969	6.295	6.149	6.694	7.119	8.259	9.134	9.833

Art. 866F (Art. 866 + 890 + 266B) Morsa + motore idraulico + centralina / Vise + hydraulic motor + power unit

Cod.	5.86.6F360	5.86.6F370	5.86.6F380	5.86.6F450	5.86.6F460	5.86.6F470	5.86.6F480	5.86.6F560	5.86.6F570	5.86.6F580	5.86.6F680	5.86.6F690	5.86.6F610
€	12.702	12.976	13.249	12.821	12.685	13.506	13.833	13.687	14.233	14.656	15.797	16.672	17.370

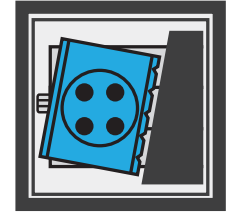
Art. 866 Esempi applicativi ganasce oscillanti:
 Floating Jaws application examples:


Serraggio di particolari grezzi - Rough workpieces clamping

Serraggio di particolari sul gradino - Rough workpieces clamping on step

FUNZIONAMENTO DELLE GANASCE MOBILI OSCILLANTI

THE OPERATION OF MOVABLE JAWS



Art. 810Z

Albero a gradino per ganasce mobili oscillanti
 Step block pin for floating movable jaw

Art. 810W

Ganascia mobile oscillante zigrinata da un lato, con albero a gradino (Art. 810Z)
 Floating movable jaw one side serrated with step block pin (Art. 810Z)

Fig. 1 Pic. 1

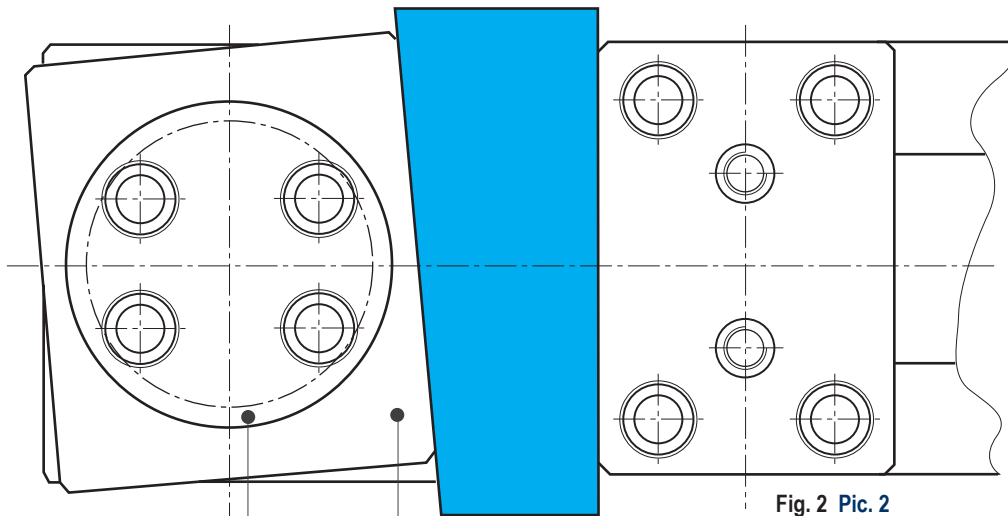
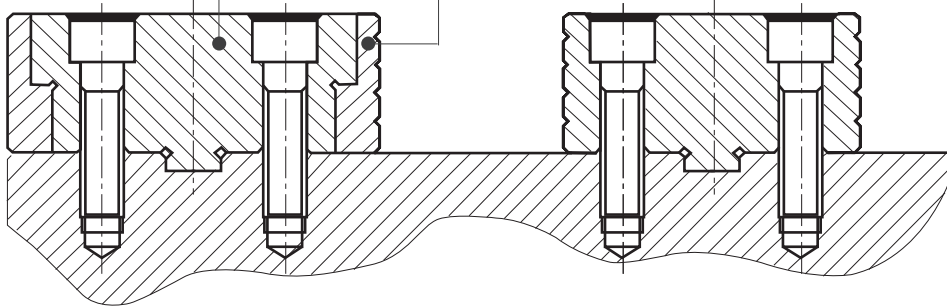


Fig. 2 Pic. 2

Art. 810Z

Albero a gradino per ganasce mobili oscillanti
 Step block pin for floating movable jaw

Art. 810W

Ganascia mobile oscillante zigrinata da un lato, con albero a gradino (Art. 810Z)
 Floating movable jaw one side serrated with step block pin (Art. 810Z)

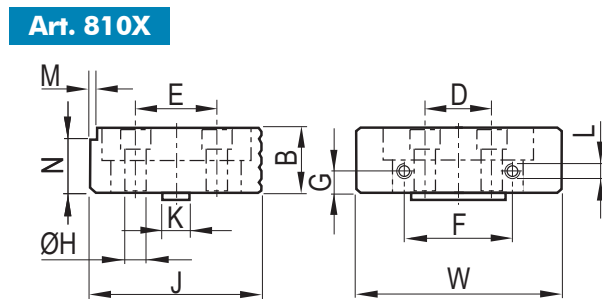
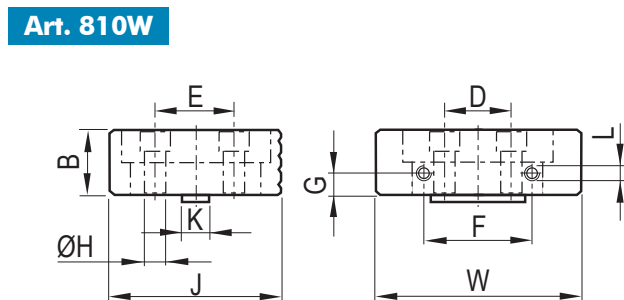
Le ganasce mobili oscillanti consentono il serraggio di pezzi di forma irregolare i cui lati non risultino paralleli (Fig. 2). Questo è reso possibile dall'albero a gradino (Art. 810Z - Fig. 1), posto al centro della ganascia, che pur permettendo la rotazione della ganascia, ne mantiene la precisione ed evita il sollevamento del pezzo mentre viene lavorato. Il tutto a garanzia di un serraggio in piena sicurezza.

Floating movable jaws allow to clamp workpieces with irregular shapes whose sides are not parallel (Pic. 2). In fact thanks to the step block spindle (Art. 810Z - Pic. 1), positioned in the centre of the jaw body, the jaw can float and guarantee at the same time maximum precision and no tilting of the parts while being worked. The safety of the workholding is guaranteed.

GANASCE MOBILI OSCILLANTI

FLOATING MOVABLE JAWS

Tipo (grandezza) / Type (size)	1	2	3	4	5	6
Art. 810W* Ganascia mobile oscillante zigrinata da un lato con albero a gradino (Art. 810Z) Floating movable jaw one side serrated with step block pin (Art. 810Z)	Cod. 5.81.0W100 € 264	Cod. 5.81.0W200 € 299	Cod. 5.81.0W300 € 341	Cod. 5.81.0W400 € 388	Cod. 5.81.0W500 € 437	Cod. 5.81.0W600 € 563
* Set viti per fissaggio a richiesta - Set of fixing screws on request €14						
Art. 810X* Ganascia mobile oscillante con gradino 3x5 zigrinata da un lato con albero a gradino (Art. 810Z) Floating movable jaw with 3x5 step one side serrated with step block pin (Art. 810Z)	Cod. 5.81.0X100 € 302	Cod. 5.81.0X200 € 333	Cod. 5.81.0X300 € 379	Cod. 5.81.0X400 € 424	Cod. 5.81.0X500 € 473	Cod. 5.81.0X600 € 588
* Set viti per fissaggio a richiesta - Set of fixing screws on request €14						
Art. 810Y* Ganascia mobile oscillante con gradino 3x5 con albero a gradino (Art. 810Z) Floating movable jaw with 3x5 step with step block pin (Art. 810Z)	Cod. 5.81.0Y100 € 302	Cod. 5.81.0Y200 € 333	Cod. 5.81.0Y300 € 379	Cod. 5.81.0Y400 € 424	Cod. 5.81.0Y500 € 473	Cod. 5.81.0Y600 € 588
* Set viti per fissaggio a richiesta - Set of fixing screws on request €14						
Art. 810Z Albero a gradino per ganasce mobili oscillanti Step block pin for floating movable jaw	Cod. 5.81.0Z100 € 135	Cod. 5.81.0Z200 € 152	Cod. 5.81.0Z300 € 175	Cod. 5.81.0Z400 € 198	Cod. 5.81.0Z500 € 221	Cod. 5.81.0Z600 € 284
Art. 810WA Corpo ganascia mobile oscillante zigrinata da un lato Body floating movable jaw one side serrated	Cod. 5.81.0WA10 € 135	Cod. 5.81.0WA20 € 152	Cod. 5.81.0WA30 € 175	Cod. 5.81.0WA40 € 198	Cod. 5.81.0WA50 € 221	Cod. 5.81.0WA60 € 284
Art. 810XA Corpo ganascia mobile oscillante con gradino 3x5 zigrinata da un lato Body floating movable jaw with 3x5 step one side serrated	Cod. 5.81.0XA10 € 171	Cod. 5.81.0XA20 € 188	Cod. 5.81.0XA30 € 209	Cod. 5.81.0XA40 € 231	Cod. 5.81.0XA50 € 257	Cod. 5.81.0XA60 € 322
Art. 810YA Corpo ganascia mobile oscillante con gradino 3x5 Body floating movable jaw with 3x5 step	Cod. 5.81.0YA10 € 171	Cod. 5.81.0YA20 € 188	Cod. 5.81.0YA30 € 209	Cod. 5.81.0YA40 € 231	Cod. 5.81.0YA50 € 257	Cod. 5.81.0YA60 € 322



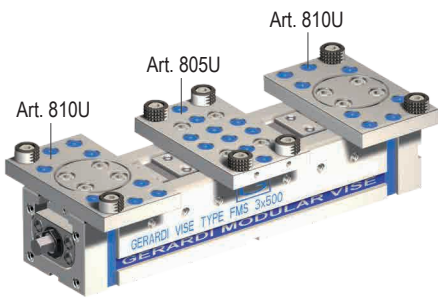
Tipo (grandezza) morsa / Vise (type) size

mm	1	2	3	4	5	6	Tolleranze / Tolerance
B	25	30	40	50	60		- 0,02
D	20	25	38	48	44	54	-
E	32	40	50	60	68	68	-
F	40	50		65		100	-
G		10		20		25	-
H	9	11	13		17	22	-
L	M5			M6			-
K				16			H7
M				5			± 0,01
N				3			± 0,02
J	72	84	106	128	135	143	- 0,02
W	74	94	124	144	169	189	-

Tipo (grandezza) morsa / Vise type (size)	kN	1			2			3	
		25 kN			25 kN			30 kN	
Art. 867									
A1	91	91	141	191	241	141	191		
B	20			20			20		
C	70			90			100		
D	332	300	400	500	600	400	500		
E	349	320	420	520	620	425	525		
G	75			95			125		
J1	50			50			70		
J2	25			25			35		
Ø	30 (H = 16)		30 (H = 16)			30 (H = 16)			
W	100		120			170			
kg	11	20	27	33	40	40	45		
Cod.	5.86.71300	5.86.72300	5.86.72400	5.86.72500	5.86.72600	5.86.73400	5.86.73500		
€	2.533	2.748	2.618	3.048	3.293	3.385	3.171		

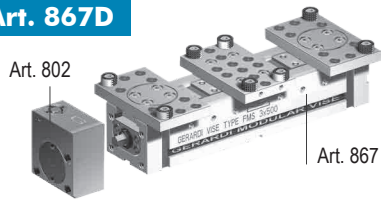


Morsa FMS doppia, singola, autocentrante con ganasce oscillanti con inserti regolabili



Double, single, self-centering FMS vise with floating jaws with adjustable inserts

Art. 867D



(Art. 867 + 802) Morsa + moltiplicatore di coppia / Vise + torque multiplier

Cod.	5.86.7D130	5.86.7D230	5.86.7D240	5.86.7D250	5.86.7D260	5.86.7D340	5.86.7D350
€	3.556	3.772	3.643	4.128	4.593	4.467	4.253

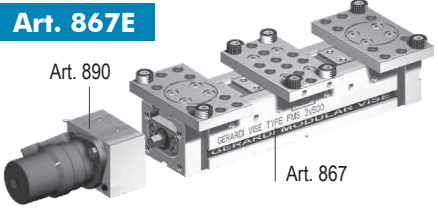
Moltiplicatore di coppia con rinvio angolare - Mechanical with torque multiplier with angular transmission
 Chiave dinamometrica Art.357 (Consigliata) - Torque wrench Art.357 (Suggested)

Art. 802



Cod.	5.80.21000	5.80.22000	5.80.23000
€	1.029	1.029	1.083

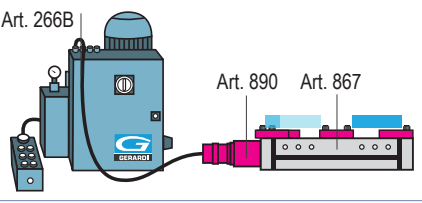
Art. 867E



(Art. 867 + 890) Morsa + motore idraulico / Vise + hydraulic motor

Cod.	5.86.7E130	5.86.7E230	5.86.7E240	5.86.7E250	5.86.7E260	5.86.7E340	5.86.7E350
€	3.772	4.007	3.876	4.362	4.554	5.111	4.898

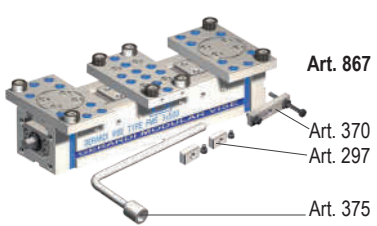
Art. 867F



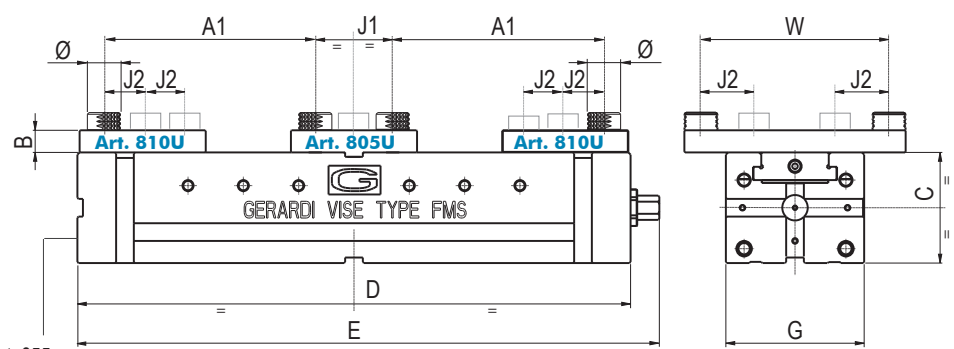
(Art. 867 + 890 + 266B) Morsa + motore idraulico + centralina / Vise + hydraulic motor + power unit

Cod.	5.86.7F130	5.86.7F230	5.86.7F240	5.86.7F250	5.86.7F260	5.86.7F340	5.86.7F350
€	11.311	11.544	11.414	11.899	12.092	12.649	12.438

- Dotazione standard:
- 2 arresti laterali Art. 370
 - 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
 - 1 chiave a pipa Art. 375



- Standard equipment:
- 2 workstops Art. 370
 - 1 pair of positioning key-nuts for 16 mm slot Art. 297
 - 1 box wrench Art. 375



Art. 855
Corpo base / Base body

	3 30 kN			4 30 kN				5 32 kN			6 32 kN		
A1	241	291	341	191	241	291	341	231	281	331	331	381	431
B	20			30				35			35		
C	100			120				140			160		
D	600	700	800	500	600	700	800	600	700	800	800	900	1000
E	625	725	825	525	625	725	825	625	725	825	825	925	1025
G	125			145				170			190		
J1	70			80				100			100		
J2	35			40				40			40		
Ø	30 (H = 16)			30 (H = 16)				40 (H = 30)			40 (H = 30)		
W	170			220				250			300		
kg	50	55	60	68	76	85	93	124	134	144	200	220	240

Cod. 5.86.73600 5.86.73700 5.86.73800 5.86.74500 5.86.74600 5.86.74700 5.86.74800 5.86.75600 5.86.75700 5.86.75800 5.86.76800 5.86.76900 5.86.76100

€ **3.850** **4.125** **4.397** **4.010** **3.874** **4.694** **5.022** **4.777** **5.321** **5.748** **7.006** **7.880** **8.577**

Art. 867D (Art. 867 + 802) Morsa + moltiplicatore di coppia / Vise + torque multiplier

Cod. 5.86.7D360 5.86.7D370 5.86.7D380 5.86.7D450 5.86.7D460 5.86.7D470 5.86.7D480 5.86.7D560 5.86.7D570 5.86.7D580 5.86.7D680 5.86.7D690 5.86.7D610

€ **4.931** **5.106** **5.477** **5.337** **5.200** **6.020** **6.348** **6.220** **6.767** **7.191** **8.444** **9.321** **10.019**

Art. 802 Moltiplicatore di coppia con rinvio angolare - Mechanical with torque multiplier with angular transmission

Cod. 5.80.23000 5.80.24000 5.80.25000 5.80.26000

€ **1.083** **1.330** **1.452** **1.442**

Art. 867E (Art. 867 + 890) Morsa + motore idraulico / Vise + hydraulic motor

Cod. 5.86.7E360 5.86.7E370 5.86.7E380 5.86.7E450 5.86.7E460 5.86.7E470 5.86.7E480 5.86.7E560 5.86.7E570 5.86.7E580 5.86.7E680 5.86.7E690 5.86.7E610

€ **5.576** **5.851** **6.123** **5.764** **5.629** **6.448** **6.777** **6.751** **7.299** **7.724** **9.007** **9.882** **10.579**

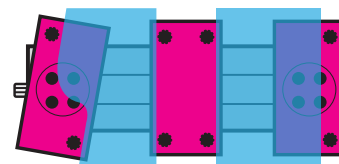
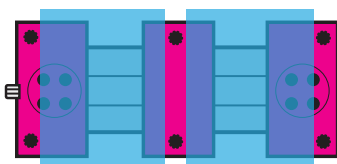
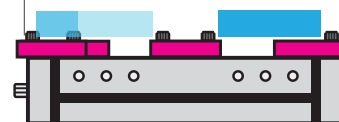
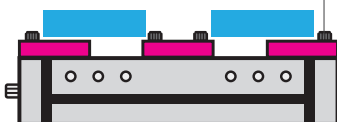
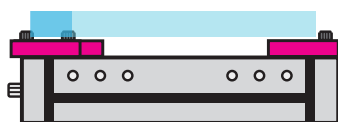
Art. 867F (Art. 867 + 890 + 266B) Morsa + motore idraulico + centralina / Vise + hydraulic motor + power unit

Cod. 5.86.7F360 5.86.7F370 5.86.7F380 5.86.7F450 5.86.7F460 5.86.7F470 5.86.7F480 5.86.7F560 5.86.7F570 5.86.7F580 5.86.7F680 5.86.7F690 5.86.7F610

€ **13.115** **13.388** **13.661** **13.303** **13.166** **13.986** **14.316** **14.290** **14.839** **15.289** **16.543** **17.418** **18.117**

Art. 867 Esempi applicativi ganasce oscillanti regolabili:
 Floating adjustable jaws application examples:

Inserti regolabili - adjustable jaw inserts



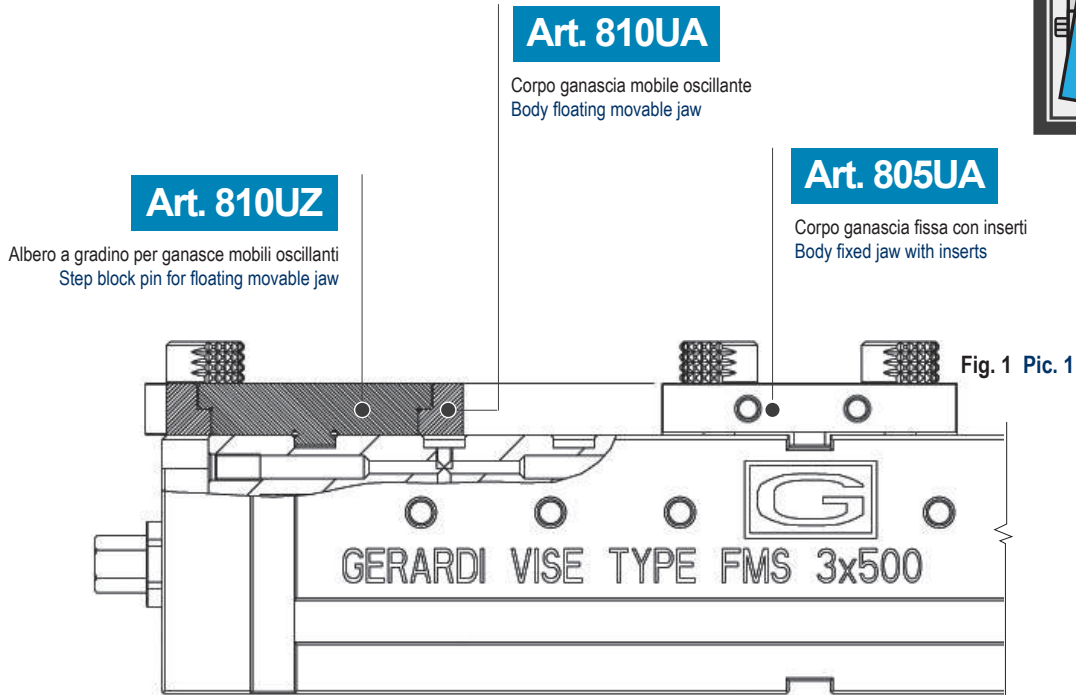
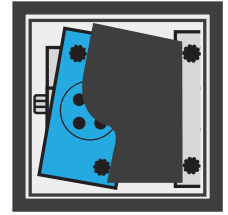
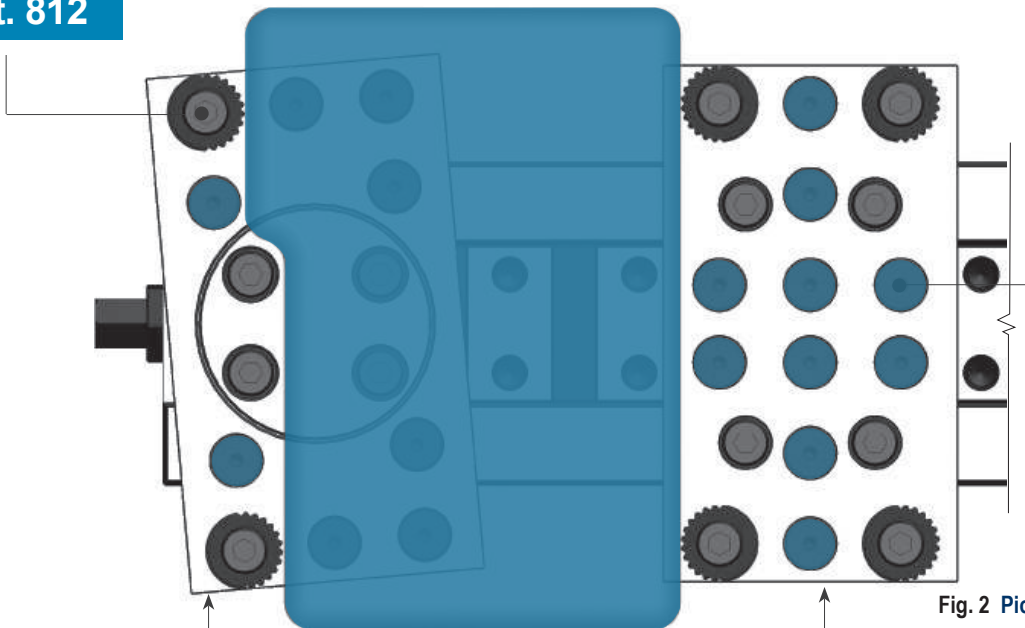
4 inserti - 4 jaw inserts

6 inserti - 6 jaw inserts

8 inserti - 8 jaw inserts

FUNZIONAMENTO DELLE GANASCE MOBILI OSCILLANTI CON INSERTI

HOW TO OPERATE FLOATING MOVABLE JAWS WITH INSERTS


Art. 812

Art. 84U

 Tappo in alluminio (EXTRA)
 Aluminum cap (ETRA)

Art. 810U

 Ganasca mobile oscillante con inserti
 Floating movable jaw with inserts

Art. 805U

 Ganasca fissa con inserti
 Fixed jaw with inserts

Le ganasce mobili oscillanti consentono il serraggio di pezzi di forma irregolare i cui lati non risultino paralleli (Fig. 2). Questo è reso possibile dall'albero a gradino (Art. 810UZ - Fig. 1), posto al centro della ganasca, che pur permettendo la rotazione della ganasca, ne mantiene la precisione ed evita il sollevamento del pezzo mentre viene lavorato. Il tutto a garanzia di un serraggio in piena sicurezza. Gli inserti estremizzano ulteriormente la versatilità delle ganasce mobili oscillanti della morsa FMS.

Floating movable jaws allow to clamp workpieces with irregular shapes whose sides are not parallels (Pic. 2). In fact thanks to the step block spindle (Art. 810UZ - Pic. 1), positioned in the centre of the jaw body, the jaw can float and guarantee at the same time maximum precision and no tilting of the parts while being worked. The safety of the workholding is guaranteed. The insert further increase the versatility of the FMS floating movable jaws.

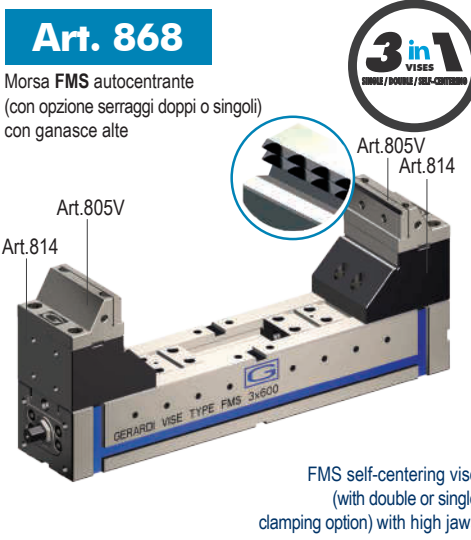
GANASCE FISSE & MOBILI FMS

FMS FIXED AND MOVABLE JAWS

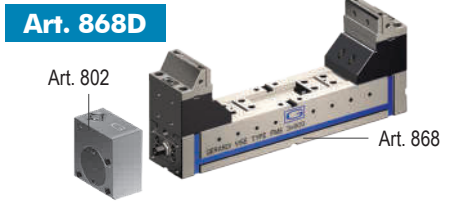
Tipo (grandezza) / Type (size)	1	2	3	4	5	6	
Art. 810U* Ganascia mobile regolabile oscillante con inserti Floating movable jaw with inserts		Cod. 5.81.0U100 € 400	Cod. 5.81.0U200 € 433	Cod. 5.81.0U300 € 482	Cod. 5.81.0U400 € 549	Cod. 5.81.0U500 € 686	Cod. 5.81.0U600 € 824
* Set viti per fissaggio a richiesta - Set of fixing screws on request €14							
Art. 810UA Corpo ganascia mobile oscillante Body floating movable jaw		Cod. 5.81.0UA10 € 208	Cod. 5.81.0UA20 € 245	Cod. 5.81.0UA30 € 284	Cod. 5.81.0UA40 € 346	Cod. 5.81.0UA50 € 462	Cod. 5.81.0UA60 € 566
Art. 810UZ* Albero a gradino per ganasce mobili oscillanti Step block pin for floating movable jaw		Cod. 5.81.0UZ10 € 111	Cod. 5.81.0UZ20 € 128	Cod. 5.81.0UZ30 € 139	Cod. 5.81.0UZ40 € 155	Cod. 5.81.0UZ50 € 175	Cod. 5.81.0UZ60 € 219
* Set viti per fissaggio a richiesta - Set of fixing screws on request €14							
Art. 810Q* Ganascia mobile regolabile con inserti Movable jaw with inserts		Cod. 5.81.0Q100 € 319	Cod. 5.81.0Q200 € 359	Cod. 5.81.0Q300 € 415	Cod. 5.81.0Q400 € 522	Cod. 5.81.0Q500 € 660	Cod. 5.81.0Q600 € 795
* Set viti per fissaggio a richiesta - Set of fixing screws on request €14							
Art. 810QA Corpo ganascia regolabile mobile per inserti Body movable jaw for inserts		Cod. 5.81.0QA10 € 236	Cod. 5.81.0QA20 € 276	Cod. 5.81.0QA03 € 330	Cod. 5.81.0QA40 € 439	Cod. 5.81.0QA50 € 563	Cod. 5.81.0QA60 € 702
Art. 805U* Ganascia fissa regolabile con inserti Fixed jaw with inserts		Cod. 5.80.5U100 € 319	Cod. 5.80.5U200 € 359	Cod. 5.80.5U300 € 415	Cod. 5.80.5U400 € 522	Cod. 5.80.5U500 € 660	Cod. 5.80.5U600 € 795
* Set viti per fissaggio a richiesta - Set of fixing screws on request €14							
Art. 805UA Corpo ganascia fissa regolabile per inserti Body fixed jaw per inserti		Cod. 5.80.5UA10 € 128	Cod. 5.80.5UA20 € 176	Cod. 5.80.5UA30 € 236	Cod. 5.80.5UA40 € 356	Cod. 5.80.5UA50 € 479	Cod. 5.80.5UA60 € 630
Art. 812 Inserto liscio e zigrinato Smooth and serrated insert		Ø 30 H 16	Cod. 5.81.21000	Cod. 5.81.2A100	Cod. 5.81.2C100	Cod. 5.81.25000	Cod. 5.81.2A500
Art. 812A Inserto liscio Smooth insert							
Art. 812C Inserto zigrinato Serrated insert			€ 58			€ 64	
Art. 813 Inserto liscio e zigrinato alto Smooth and serrated high insert		Ø 30 H 28	Cod. 5.81.31000	Cod. 5.81.3A100	Cod. 5.81.3C100	Cod. 5.81.35000	Cod. 5.81.3A500
Art. 813A Inserto liscio alto Smooth high insert							
Art. 813C Inserto zigrinato alto Serrated high insert			€ 64			€ 70	
Art. 815 Inserto liscio e zigrinato a gradino Pair of smooth and serrated step insert		H 16 H 30	Cod. 5.81.51000	Cod. 5.81.5A100	Cod. 5.81.5C100	Cod. 5.81.55000	Cod. 5.81.5A500
Art. 815A Inserto liscio a gradino Smooth step insert							
Art. 815C Inserto zigrinato a gradino Serrated step insert			€ 70			€ 76	
Art. 812B Inserto in acciaio lavorabile Insert in machineable steel metal		Ø 40 H 40	Cod. 5.81.2B100	Cod. 5.81.2B500			
			€ 47		€ 52		
Art. 84U Tappo in alluminio (EXTRA) Aluminum cap (ETRA)		Cod. 5.84.U1000	Cod. 5.84.U5000				
		€ 10	€ 12				

Tipo (grandezza) morsa / Vise type (size)

kN	1		2				3	
	25 kN		25 kN				30 kN	
A	130	230	182	282	382	482	244	344
B	99,5			117			137	
C	70			90			100	
D	232	332	300	400	500	600	400	500
E	249	349	320	420	520	620	425	525
F	169,5			207			237	
G	75			95			125	
H	75			85			98	
L	56			64			84	
J3	76	76		101			132	
J4	55	55		63			82	
X	39,5			47			57	
W	74			94			124	
kg	-			-			-	



Cod.	5.86.81200	5.86.81300	5.86.82300	5.86.82400	5.86.82500	5.86.82600	5.86.83400	5.86.83500
€	1.935	2.065	2.233	2.113	2.578	2.757	2.793	2.590

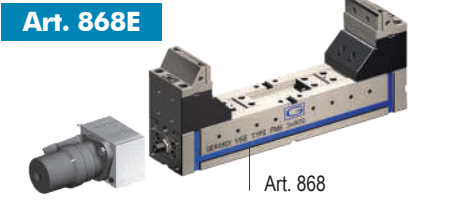


Cod.	5.86.8D120	5.86.8D130	5.86.8D230	5.86.8D240	5.86.8D250	5.86.8D260	5.86.8D340	5.86.8D350
€	2.912	3.042	3.209	3.090	3.555	3.733	3.830	3.626

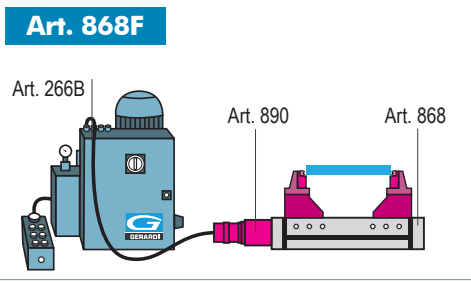


Chiave dinamometrica Art.357 (Consigliata) - Torque wrench Art.357 (Suggested)

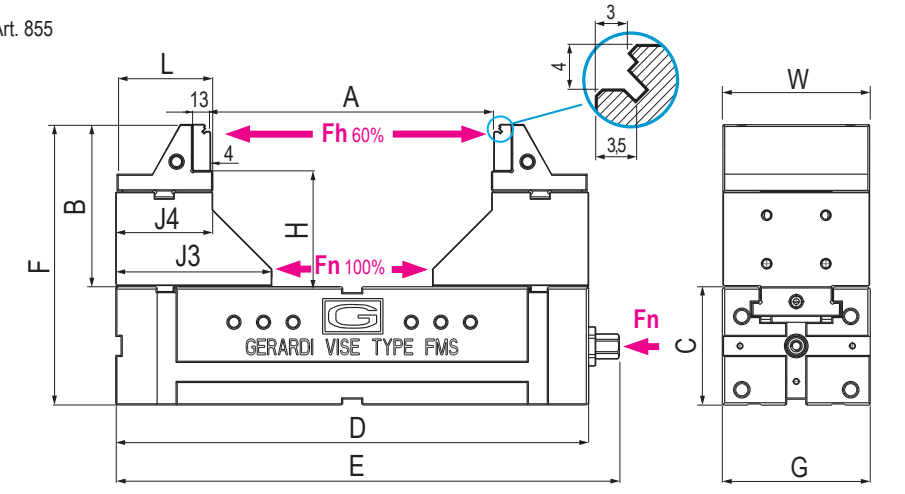
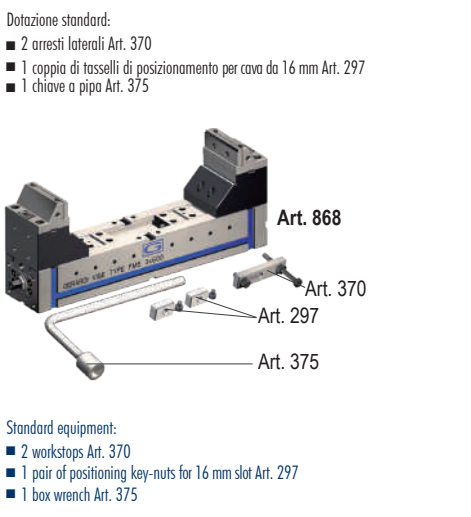
Cod.	5.80.21000	5.80.22000	5.80.23000
€	1.029	1.029	1.083



Cod.	5.86.8E120	5.86.8E130	5.86.8E230	5.86.8E240	5.86.8E250	5.86.8E260	5.86.8E340	5.86.8E350
€	3.126	3.257	3.437	3.317	3.770	3.948	4.438	4.235



Cod.	5.86.8F120	5.86.8F130	5.86.8F230	5.86.8F240	5.86.8F250	5.86.8F260	5.86.8F340	5.86.8F350
€	11.088	11.219	11.423	11.293	11.757	11.936	12.436	12.233



	3 30 kN			4 30 kN				5 32 kN			6 32 kN		
A	444	544	644	316	416	516	616	396	496	596	596	696	796
B		137				171			186			246	
C		100				120			140			160	
D	600	700	800	500	600	700	800	600	700	800	800	900	1000
E	625	725	825	525	625	725	825	625	725	825	825	925	1025
F		237				291			326			406	
G		125				145			170			190	
H		98				128			138			180	
L		84				97			107			107	
J3		132				154			169			189	
J4		82				96			106			106	
X		57				64			66			86	
W		124				144			169			189	
kg		-				-			-			-	

Cod.	5.86.83600	5.86.83700	5.86.83800	5.86.84500	5.86.84600	5.86.84700	5.86.84800	5.86.85600	5.86.85700	5.86.85800	5.86.86800	5.86.86900	5.86.86100
€	3.246	3.495	3.758	3.458	3.328	4.115	4.425	4.175	4.699	5.105	6.034	6.869	7.536

Art. 868D

(Art. 868 + 802) Morsa + moltiplicatore di coppia / Vise + torque multiplier

Cod.	5.86.8D360	5.86.8D370	5.86.8D380	5.86.8D450	5.86.8D460	5.86.8D470	5.86.8D480	5.86.8D560	5.86.8D570	5.86.8D580	5.86.8D680	5.86.8D690	5.86.8D610
€	4.271	4.531	4.794	4.723	4.592	5.378	5.690	5.556	6.069	6.475	7.405	8.240	8.907

Art. 802

Moltiplicatore di coppia con rinvio angolare - Mechanical with torque multiplier with angular transmission

Cod.	5.80.23000	5.80.24000	5.80.25000	5.80.26000
€	1.083	1.330	1.452	1.442

Art. 868E

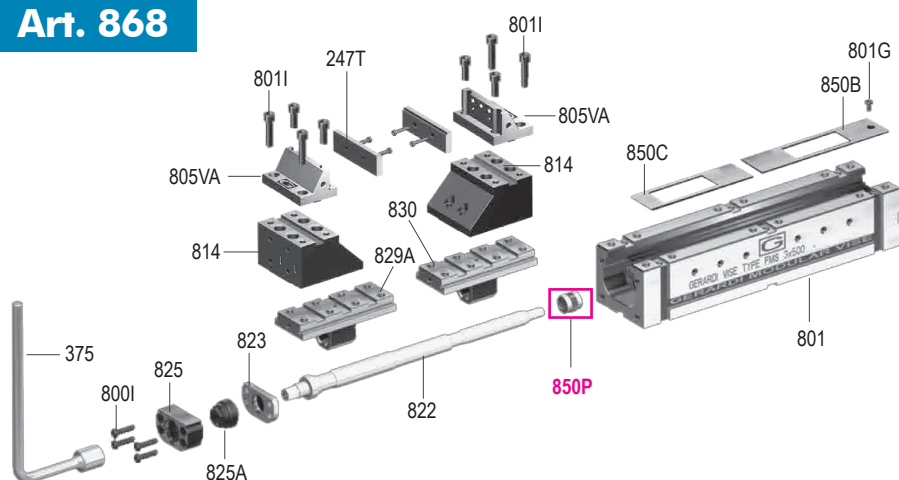
(Art. 868 + 890) Morsa + motore idraulico / Vise + hydraulic motor

Cod.	5.86.8E360	5.86.8E370	5.86.8E380	5.86.8E450	5.86.8E460	5.86.8E470	5.86.8E480	5.86.8E560	5.86.8E570	5.86.8E580	5.86.8E680	5.86.8E690	5.86.8E610
€	4.890	5.140	5.403	5.128	4.998	5.783	6.095	6.058	6.582	6.976	7.942	8.776	9.445

Art. 868F

(Art. 868 + 890 + 266B) Morsa + motore idraulico + centralina / Vise + hydraulic motor + power unit

Cod.	5.86.8F360	5.86.8F370	5.86.8F380	5.86.8F450	5.86.8F460	5.86.8F470	5.86.8F480	5.86.8F560	5.86.8F570	5.86.8F580	5.86.8F680	5.86.8F690	5.86.8F610
€	12.875	13.139	13.402	13.163	12.388	13.818	14.130	14.320	14.844	15.249	16.274	17.109	17.777

Art. 868


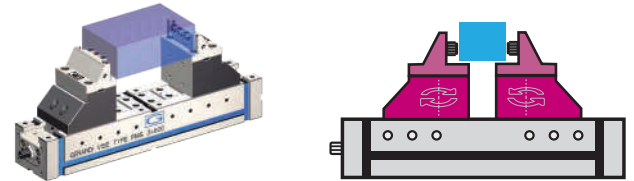
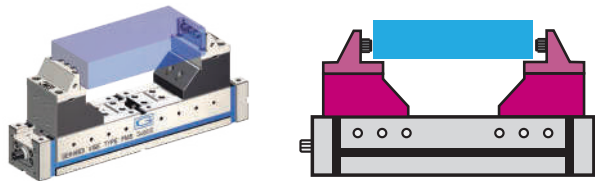
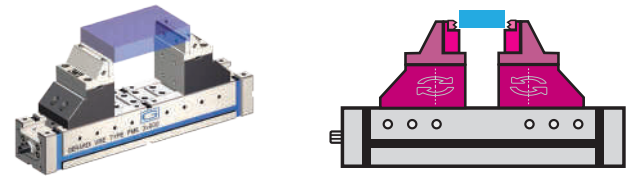
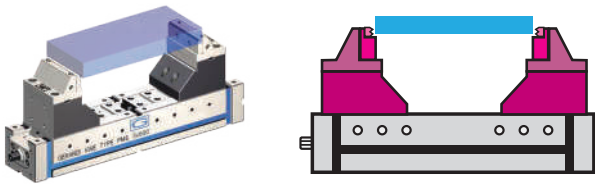
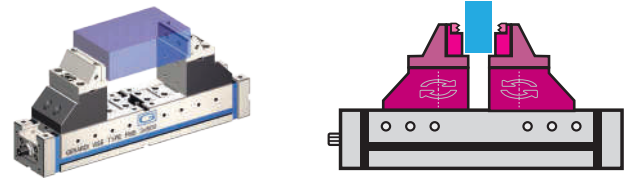
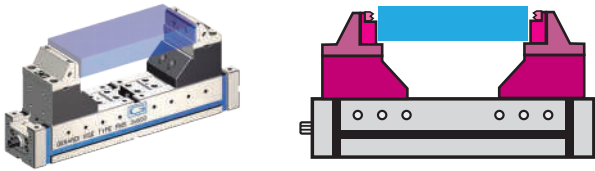
Art.	Pag.	Art.	Pag.
375	4.35	830	5.52
800I	5.61	850B	5.61
801	5.50	850C	5.61
801G	5.61	850P	5.72
801I	5.61	814	5.56
810J	5.56	805VA	5.35
822	5.53	247T	5.35
823	5.59	-	-
825	5.59	-	-
825A	5.61	-	-
829A	5.52	-	-

POSSIBILI COMBINAZIONI DELLA MORSA Art.868

POSSIBLE ARRANGEMENTS OF THE Art.868 VISE

Orientamento base mobile Art.814 per massima apertura ganasce
 Movable base Art.814 oriented for the maximum jaws opening

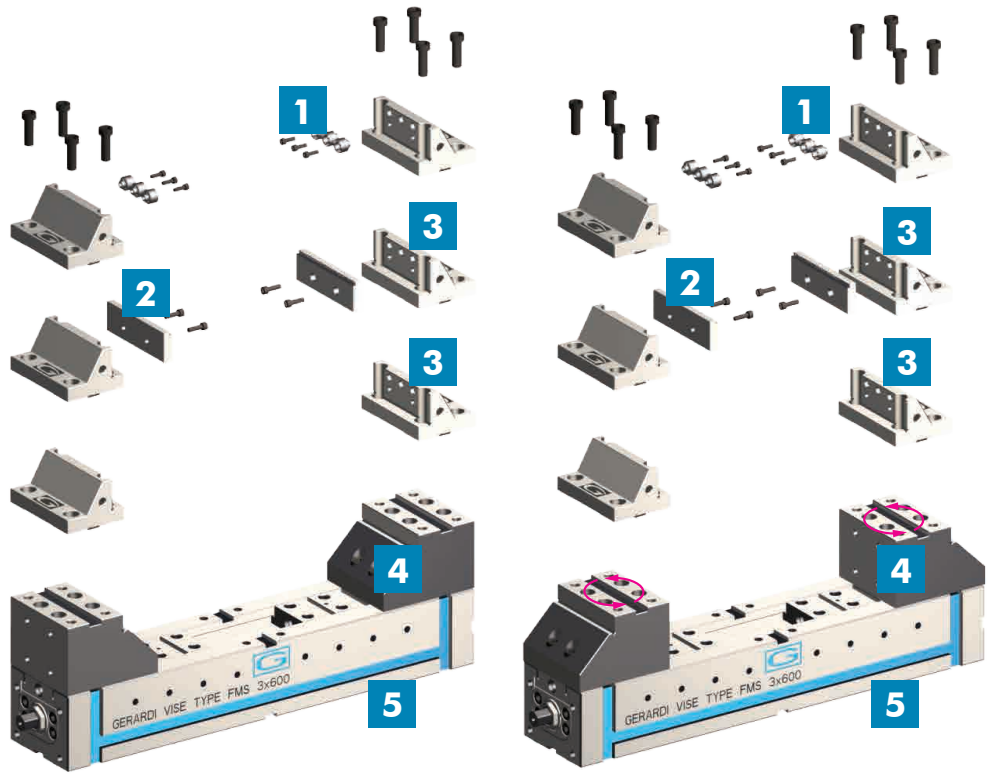
Orientamento base mobile Art.814 per chiusura ganasce a zero
 Movable base Art.814 oriented in order to close jaws completely



5

Art. 868

- 1** Art.90
PUNTALE TEMPRATO GRIP
HARDENED GRIP POINT
- 2** Art.247T
PIASTRINA PIANA GRIP
STRAIGHT JAW PLATE GRIP
- 3** Art.805VA
CORPO GANASCIA
JAW PLATE BODY
- 4** Art.814
BASE PER GANASCE FISSE
BASE FOR FIXED JAWS
- 5** Art.855
CORPO BASE CUBO
CUBE BASE BODY



Possibilità di utilizzo di qualsiasi ganascia fissa FMS anziché del corpo ganascia 805V. Possibilità di due posizioni per ciascuna ganascia fissa e per base ganascia mobile Art.814
 Possibility to use each FMS fixed jaw instead of jaw body Art.805V. Possibility of two positions (at 180°) for each fixed jaw and for movable base jaw Art.814

GANASCE & PIASTRE GANASCE PER Art.868

JAWS & JAW PLATES FOR Art.868

Tipo (grandezza) / Type (size)	1	2	3	4	5	6
--------------------------------	---	---	---	---	---	---

Art. 805V*

Ganascia per piastrine e puntali
Jaw for plates and points



Cod.	5.80.5V100	5.80.5V200	5.80.5V300	5.80.5V400	5.80.5V500	5.80.5V600
€	164	203	242	290	367	441

* Viti per fissaggio a richiesta Fixing screws on request

Art. 90

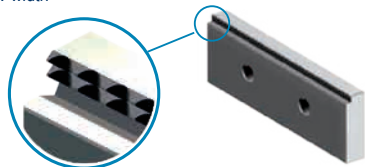
Puntale temprato GRIP
Hardened GRIP Insert



Cod.	5.90.10000
€	37

Art. 247T (W2)

Piastra piana temprata GRIP
con larghezza ridotta
Hardened straight jaw plate GRIP
with narrow width



Cod.	4.24.7T100	4.24.7T200	4.24.7T300	4.24.7T400	4.24.7T500	4.24.7T600
€	66	73	86	105	146	194

Per qualsiasi piastra piana speciale, raddoppiare il prezzo
For special I taylor made straight jaw plate double the price

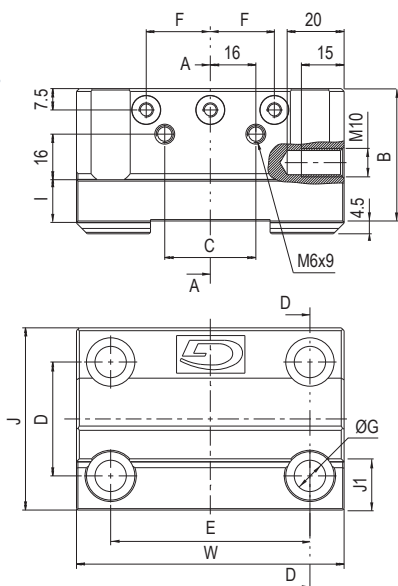
PIASTRE GANASCE "GRIP" JAW PLATES

MINOR SUPERFICIE DI CONTATTO + PRESSIONE DI SERRAGGIO

LESS SURFACE CONTACT + CLAMPING PRESSURE

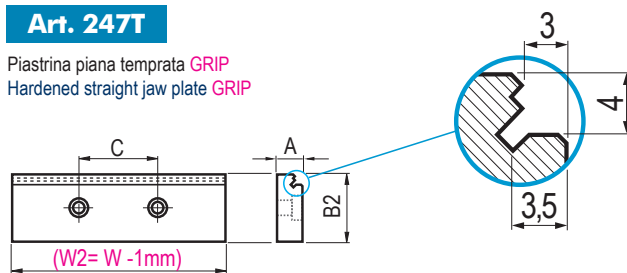
Art. 805VA

Corpo Ganascia
Jaw for plates and points



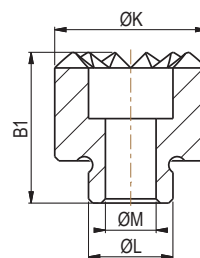
Art. 247T

Piastrina piana temprata GRIP
Hardened straight jaw plate GRIP



Art. 90

Puntale temprato GRIP
Hardened GRIP Point



mm	1	2	3	4	5	6
W	74	94	124	144	169	189
A	12	12	13	13	18	18
B	39,5	47	57	61	66	86
B2	24,5	32	39	43	48	56
C	25	32	50	50	76	90
D	32	40	50	60	68	68
E	56	70	92	108	126	144
F	2X26	3x20	3x25	4x20	4x25	4x30
ØG	9	11	13	17	17	21
I	15	15	18	18	18	20
J	56	64	84	97	107	107
J1				17		
ØK	-			18		-
ØL	-		10 h8			-
ØM	-		6			-

Tipo (grandezza) morsa / Vise type (size)	kN	1		2				3	
		25 kN		25 kN				30 kN	
Apertura minima - massima / minimum - maximum Aperture	A	10 / 25	10 / 25	20 / 50	20 / 50	20 / 50	20 / 50	40 / 100	40 / 100
Apertura minima - massima / minimum - maximum Aperture	A1	10 / 15	10 / 15	10 / 25	10 / 25	10 / 25	10 / 25	25 / 50	25 / 50
	B	34		55				90	
	C	70		90				100	
	D	232	332	300	400	500	600	400	500
	E	249	349	320	420	520	620	425	525
	F	104		145				190	
	G	75		95				125	
	J	48	60	102				132	
	W	50		75				100	
	kg	9	12	23	30	63	43	47	52
	Cod.	5.87.01200	5.87.01300	5.87.02300	5.87.02400	5.87.02500	5.87.02600	5.87.03400	5.87.03500
	€	1.671	1.807	2.011	1.882	2.367	2.558	2.589	2.377

Art. 870

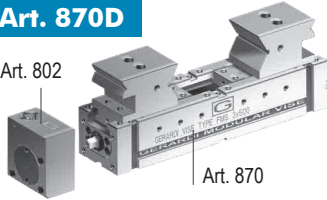
Morsa FMS autocentrante (opzione doppia o singola) con ganasce primatiche



FMS self-centering vise (double or single option) with prismatic jaws

Art. 870D

Art. 802



Art. 870

(Art. 870 + 802) Morsa + moltiplicatore di coppia / Vise + torque multiplier

Cod.	5.87.0D120	5.87.0D130	5.87.0D230	5.87.0D240	5.87.0D250	5.87.0D260	5.87.0D340	5.87.0D350
€	2.698	2.833	3.037	2.908	3.391	3.584	3.670	3.457

Art. 802



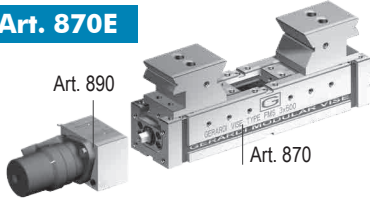
Moltiplicatore di coppia con rinvio angolare - Mechanical with torque multiplier with angular transmission

Chiave dinamometrica Art.357 (Consigliata) - Torque wrench Art.357 (Suggested)

Cod.	5.80.21000	5.80.22000	5.80.23000
€	1.029	1.029	1.083

Art. 870E

Art. 890



Art. 870

(Art. 870 + 890) Morsa + motore idraulico / Vise + hydraulic motor

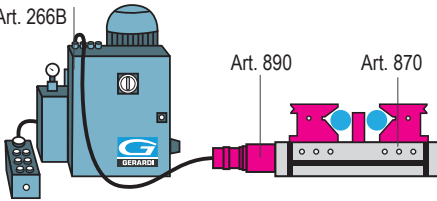
Cod.	5.87.0E120	5.87.0E130	5.87.0E230	5.87.0E240	5.87.0E250	5.87.0E260	5.87.0E340	5.87.0E350
€	2.913	3.049	3.270	3.140	3.625	3.817	4.315	4.102

Art. 870F

Art. 266B

Art. 890

Art. 870

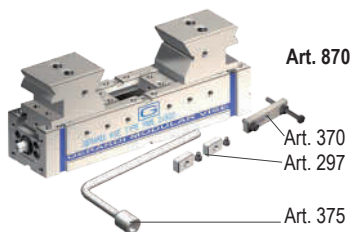


(Art. 870 + 890 + 266B) Morsa + motore idraulico + centralina / Vise + hydraulic motor + power unit

Cod.	5.87.0F120	5.87.0F130	5.87.0F230	5.87.0F240	5.87.0F250	5.87.0F260	5.87.0F340	5.87.0F350
€	10.450	10.587	10.809	10.680	11.164	11.357	11.854	11.643

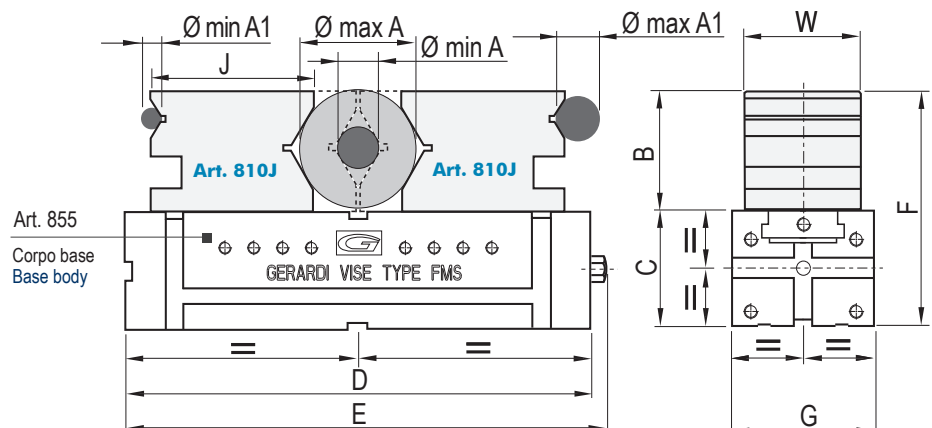
Dotazione standard:

- 2 arresti laterali Art. 370
- 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
- 1 chiave a pipa Art. 375



Standard equipment:

- 2 workstops Art. 370
- 1 pair of positioning key-nuts for 16 mm slot Art. 297
- 1 box wrench Art. 375



	3 30 kN			4 30 kN				5 32 kN			6 32 kN		
A	40 / 100	40 / 100	40 / 100	40 / 150	40 / 150	40 / 150	40 / 150	63 / 200	65 / 240	80 / 280	100 / 300	120 / 350	140 / 400
A1	25 / 50	25 / 50	25 / 50	30 / 60	30 / 60	30 / 60	30 / 60	35 / 70	35 / 70	35 / 80	40 / 140	40 / 140	40 / 140
B	90			132				171	191	226	250	275	300
C	100			120				140			160		
D	600	700	800	500	600	700	800	600	700	800	800	900	1000
E	625	725	825	525	625	725	825	625	725	825	825	925	1025
F	190			252				311	331	366	410	435	460
G	125			145				170			190		
J	132			156				176			174		
W	100			132				140			160		
kg	57	62	67	74	82	91	99	135	145	155	225	245	265
Cod.	5.87.03600	5.87.03700	5.87.03800	5.87.04500	5.87.04600	5.87.04700	5.87.04800	5.87.05600	5.87.05700	5.87.05800	5.87.06800	5.87.06900	5.87.06100
€	3.054	3.328	3.601	3.737	3.108	3.930	4.260	3.884	4.431	4.853	6.567	7.441	8.140

Art. 870D

(Art. 870 + 802) Morsa + moltiplicatore di coppia / Vise + torque multiplier

Cod.	5.87.0D360	5.87.0D370	5.87.0D380	5.87.0D450	5.87.0D460	5.87.0D470	5.87.0D480	5.87.0D560	5.87.0D570	5.87.0D580	5.87.0D680	5.87.0D690	5.87.0D610
€	4.135	4.410	4.682	4.572	4.436	5.256	5.585	5.321	5.871	6.293	8.008	8.882	9.578

Art. 802

Moltiplicatore di coppia con rinvio angolare - Mechanical with torque multiplier with angular transmission

Cod.	5.80.23000			5.80.24000				5.80.25000			5.80.26000		
€	1.083			1.330				1.452			1.442		

Art. 870E

(Art. 870 + 890) Morsa + motore idraulico / Vise + hydraulic motor

Cod.	5.87.0E360	5.87.0E370	5.87.0E380	5.87.0E450	5.87.0E460	5.87.0E470	5.87.0E480	5.87.0E560	5.87.0E570	5.87.0E580	5.87.0E680	5.87.0E690	5.87.0E610
€	4.780	5.055	5.329	5.000	4.862	5.684	6.013	5.857	6.403	6.829	8.568	9.444	10.140

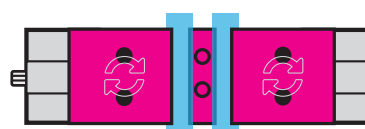
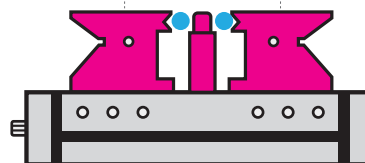
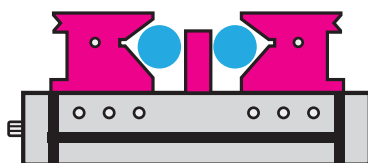
Art. 870F

(Art. 870 + 890 + 266B) Morsa + motore idraulico + centralina / Vise + hydraulic motor + power unit

Cod.	5.87.0F360	5.87.0F370	5.87.0F380	5.87.0F450	5.87.0F460	5.87.0F470	5.87.0F480	5.87.0F560	5.87.0F570	5.87.0F580	5.87.0F680	5.87.0F690	5.87.0F610
€	12.318	12.592	12.866	12.538	12.403	13.224	13.551	13.396	13.942	14.367	16.107	16.981	17.678

Art. 870
Esempi applicativi ganasce prismatiche:
 Prismatic jaws application examples:

Ganasce ruotate di 180° - Jaws rotated 180°


Art. 870A

Pag.5.54 Page. 5.54

 Per il serraggio di 2 particolari tondi contemporaneamente per mezzo della ganasce intermedia alta Art.870A
 For clamping 2 round workpieces simultaneously by intermediate high jaw Art.870A

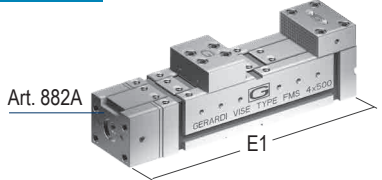
N.B.: Realizzabili versioni speciali per diametro **Max.1500** - Special Types available on request for **up to Ø1500**

Tipo (grandezza) morsa / Vise type (size)	kN	1		2				3	
		25 kN		25 kN				30 kN	
Apertura massima / Maximum opening	A	85	185	170	270	370	470	230	330
Minima apertura interno-esterno / Minimum opening inside-outside	A1	115 / 200	115 / 300	130 / 300	130 / 400	130 / 500	130 / 600	170 / 400	170 / 500
Art. 800 Morsa a Serraggio Meccanico solo per serraggi singoli <i>SPECIFICA SOLO PER SERRAGGI SINGOLI</i> <i>SPECIFIC FOR SINGLE CLAMPING ONLY</i>	B	25		30				40	
	C	70		90				100	
	D	232	332	300	400	500	600	400	500
	E	249	349	320	420	520	620	425	525
	G	75		95				125	
	W	74		94				124	
	kg	7	10	18	25	32	39	40	45
	Cod.	5.80.01200	5.80.01300	5.80.02300	5.80.02400	5.80.02500	5.80.02600	5.80.03400	5.80.03500
	€	1.506	1.643	1.782	1.917	2.123	2.258	2.258	2.534
	Art. 800Z Corpo morsa Vise body	Cod.	5.80.0Z120	5.80.0Z130	5.80.0Z230	5.80.0Z240	5.80.0Z250	5.80.0Z260	5.80.0Z340
€		1.324	1.460	1.488	1.624	1.830	1.965	1.929	2.205



Mechanical Clamping vise only for single clamping

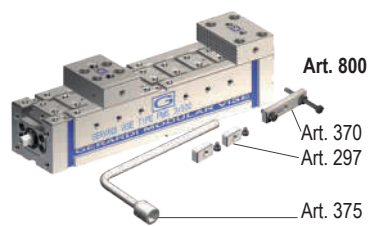
Art. 800A	Meccanica con predisposizione idraulica solo per serraggi singoli / Mechanical with prepared hydraulic connection only for single clamping								
	E1	273	373	370,5	470,5	570,5	670,5	485	585
Cod.	5.80.0A120	5.80.0A130	5.80.0A230	5.80.0A240	5.80.0A250	5.80.0A260	5.80.0A340	5.80.0A350	
€	1.676	1.814	2.036	2.174	2.377	2.514	2.514	2.789	
Art. 882A	Connettore Idraulico - Hydraulic Connexion								
	Corsa - Stroke mm	4		7				10	
	Superficie - Surface cm ²	6		21				21	
	Pressione - Pressure bar	417		119				143	



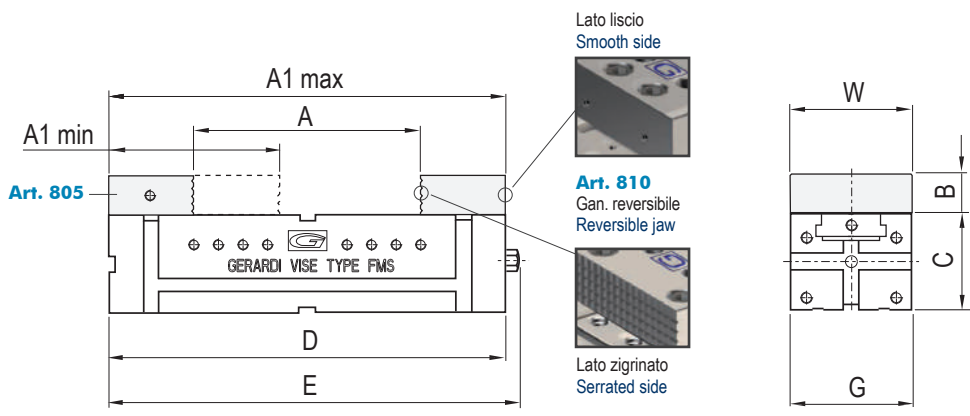
Art. 800B	(Art. 800A + Art.393) Morsa + centralina a comando manuale singolo / Vise + power unit with single manual control								
	E1	273	373	370,5	470,5	570,5	670,5	485	585
Cod.	5.80.0B120	5.80.0B130	5.80.0B230	5.80.0B240	5.80.0B250	5.80.0B260	5.80.0B340	5.80.0B350	
€	3.034	3.170	3.780	3.918	4.122	4.259	4.259	4.531	

Art. 800D	(Art. 800 + 802) Morsa + moltiplicatore di coppia / Vise + torque multiplier								
	E2	277	377	360	460	560	660	470	570
Nm	Max 20		Max 25				Max 20		
Cod.	5.80.0D120	5.80.0D130	5.80.0D230	5.80.0D240	5.80.0D250	5.80.0D260	5.80.0D340	5.80.0D350	
€	2.534	2.672	2.806	2.942	3.148	3.285	3.338	3.613	
Art. 802	Moltiplicatore di coppia con rinvio angolare - Mechanical with torque multiplier with angular transmission								
	Chiave dinamometrica Art.357 (Consigliata) - Torque wrench Art.357 (Suggested)								
	Cod.	5.80.21000				5.80.22000		5.80.23000	
€	1.029				1.029		1.083		

- Dotazione standard:
- 2 arresti laterali Art. 370
 - 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
 - 1 chiave a pipa Art. 375



- Standard equipment:
- 2 workstops Art. 370
 - 1 pair of positioning key-nuts for 16 mm slot Art. 297
 - 1 box wrench Art. 375



	3 30 kN			4 30 kN				5 32 kN			6 32 kN		
A	430	530	630	300	400	500	600	380	480	580	580	680	780
A1	170 / 600	170 / 700	170 / 800	200 / 500	200 / 600	200 / 700	200 / 800	220 / 600	220 / 700	220 / 800	220 / 800	220 / 800	220 / 100
B	40			50				60			60		
C	100			120				140			160		
D	600	700	800	500	600	700	800	600	700	800	800	900	1000
E	625	725	825	525	625	725	825	625	725	825	825	925	1025
G	125			145				170			190		
W	124			144				169			189		
kg	50	55	60	66	72	80	88	115	125	135	170	190	210

Cod.	5.80.03600	5.80.03700	5.80.03800	5.80.04500	5.80.04600	5.80.04700	5.80.04800	5.80.05600	5.80.05700	5.80.05800	5.80.06800	5.80.06900	5.80.06100
€	2.806	3.082	3.354	2.738	3.082	3.423	3.765	3.285	3.694	4.105	4.926	5.748	6.568

Cod.	5.80.02360	5.80.02370	5.80.02380	5.80.02450	5.80.02460	5.80.02470	5.80.02480	5.80.02560	5.80.02570	5.80.02580	5.80.02680	5.80.02690	5.80.02610
€	2.478	2.753	3.025	2.287	2.631	2.971	3.314	2.680	3.089	3.499	4.098	4.920	5.740

Art. 800A Meccanica con predisposizione idraulica *solo per serraggi singoli* / Mechanical with prepared hydraulic connection *only for single clamping*

E1	685	785	885	585	685	785	885	-	-	-	-	-	-
Cod.	5.80.0A360	5.80.0A370	5.80.0A380	5.80.0A450	5.80.0A460	5.80.0A470	5.80.0A480	5.80.0A560	5.80.0A570	5.80.0A580	5.80.0A680	5.80.0A690	5.80.0A610
€	3.060	3.334	3.609	3.078	3.420	3.761	4.102	3.711	4.120	4.529	5.350	5.170	6.991

Art. 882A Connettore Idraulico - Hydraulic Connexion

	10		10										
	21		21										
	143		143										

Art. 800B (Art. 800A + Art.393) Morsa + centralina a comando manuale singolo / Vise + power unit with single manual control

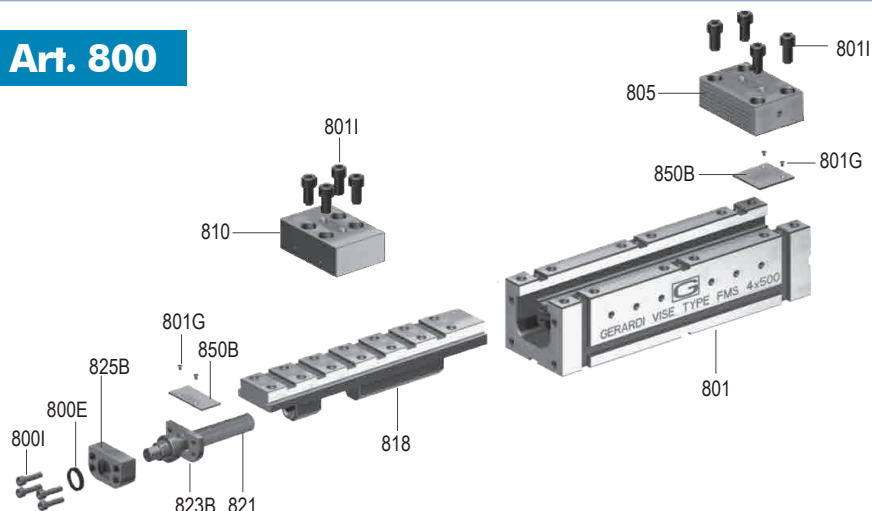
E1	685	785	885	585	685	785	885	-	-	-	-	-	-
Cod.	5.80.0B360	5.80.0B370	5.80.0B380	5.80.0B450	5.80.0B460	5.80.0B470	5.80.0B480	5.80.0B560	5.80.0B570	5.80.0B580	5.80.0B680	5.80.0B690	5.80.0B610
€	4.804	5.078	5.352	4.821	5.164	5.506	5.847	5.455	5.864	6.274	7.095	7.915	8.735

Art. 800D (Art. 800 + 802) Morsa + moltiplicatore di coppia / Vise + torque multiplier


E2	670	770	870	570	670	770	870	685	785	885	-	-	-
Nm	Max 20			Max 20				Max 20			Max 20		
Cod.	5.80.0D360	5.80.0D370	5.80.0D380	5.80.0D450	5.80.0D460	5.80.0D470	5.80.0D480	5.80.0D560	5.80.0D570	5.80.0D580	5.80.0D680	5.80.0D690	5.80.0D610
€	3.887	4.162	4.434	4.066	4.406	4.750	5.089	4.725	5.136	5.545	6.365	7.187	8.009

Art. 802 Moltiplicatore di coppia con rinvio angolare - Mechanical with torque multiplier with angular transmission

Cod.	5.80.23000	5.80.24000	5.80.25000	5.80.26000
€	1.083	1.330	1.452	1.442

Art. 800


Art.	Pag.	Art.	Pag.
800E	5.61	850B	5.61
800I	5.61	-	-
801	5.50	-	-
801G	5.61	-	-
8011	5.61	-	-
805	5.54	-	-
810	5.56	-	-
818	5.52	-	-
821	5.53	-	-
823B	5.59	-	-
825B	5.59	-	-

Tipo (grandezza) morsa / Vise type (size)	kN	1		2		3		
		30 kN						
Apertura massima / Maximum opening	A	-	-	-	-	-	232	332
Art. 900	B	-	-	-	-	-	40	
	C	-	-	-	-	-	100	
Morsa a Serraggio Meccanico con Limitatore di Forza solo per serraggi singoli	D	-	-	-	-	-	510	610
	E	-	-	-	-	-	400	500
	G	-	-	-	-	-	125	
	W	-	-	-	-	-	124	
kg		-	-	-	-	-	-	44
Cod.		-	-	-	-	-	5.90.03400	5.90.03500
€		ATTUALMENTE NON DISPONIBILI - CURRENTLY NOT AVAILABLE					On Req.	4.175

Questa morsa, pur essendo parte del programma FMS, non è predisposta per serraggi doppi o autocentranti

Art. 900Y

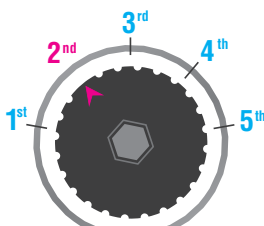
Modulo per serraggio idraulico
 Module for hydraulic clamping



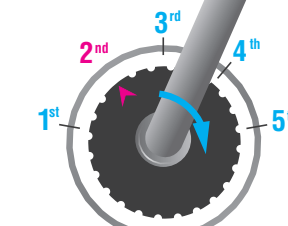
Cod. - - - - - 5.90.0Y300

€ **ATTUALMENTE NON DISPONIBILI - CURRENTLY NOT AVAILABLE** On Req.

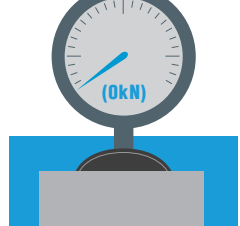
5
FUNZIONAMENTO LIMITATORE DI FORZA - HOW TO USE THE LIMITING DEVICE



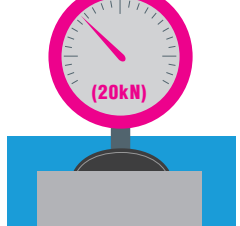
1 Scegliere forza di serraggio tramite ghiera limitatore di forza. Presetting of the clamping force through the clamping limiter



2 Rapido avvicinamento ganaschia mobile al pezzo da serrare. Quick approach of the jaw to the workpiece



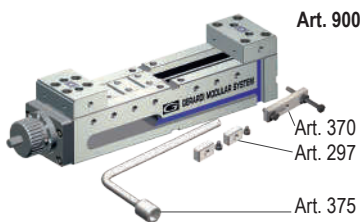
3 Contatto ganaschia-particolare e sblocco frizione limitatore di forza. First contact jaw-workpiece and clamping limiter friction release



4 Avvio meccanismo moltiplica forza. Fermarsi a fine corsa. Force multiplier device start. At the end-stroke stop clamping.

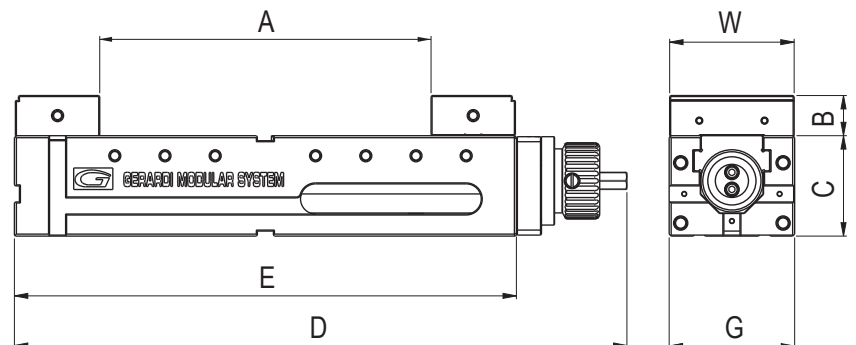
Dotazione standard:

- 2 arresti laterali Art. 370
- 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
- 1 chiave a pipa Art. 375



Standard equipment:

- 2 workstops Art. 370
- 1 pair of positioning key-nuts for 16 mm slot Art. 297
- 1 box wrench Art. 375



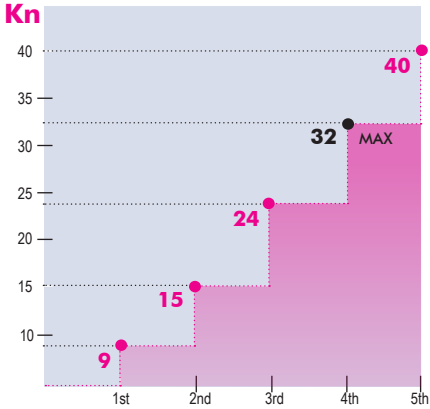
	3 30 kN			4 30 kN				5 32 kN			6			
A	432	532	632	304	404	505	605	384	484	584	-	-	-	
B	40			50				60			-			
C	100			120				140			-			
D	710	810	910	610	710	810	910	710	810	910	-	-	-	
E	600	700	800	500	600	700	800	600	700	800	-	-	-	
G	125			145				170			-			
W	124			144				169			-			
kg	-	-	-	57	-	-	-	99	-	-	-	-	-	
Cod.	5.90.03600	5.90.03700	5.90.03800	5.90.04500	5.90.04600	5.90.04700	5.90.04800	5.90.05600	5.90.05700	5.90.05800	-	-	-	
€	On Req.			4.771	On Req.			5.366	On Req.			ATTUALMENTE NON DISPONIBILI CURRENTLY NOT AVAILABLE		

This type of vise even if it is part of the FMS series is not suitable for double or self-centering clamping

Art. 900Y

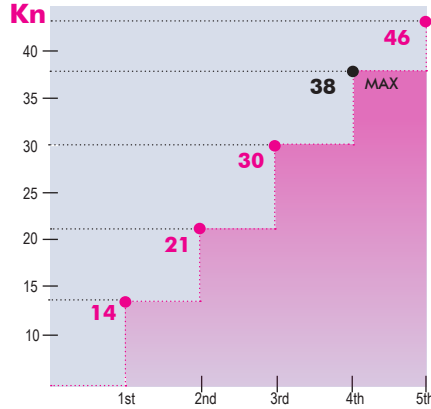
Cod.	5.90.0Y300	5.90.0Y300	5.90.0Y300	-
€	On Req.	On Req.	On Req.	ATTUALMENTE NON DISPONIBILI CURRENTLY NOT AVAILABLE

Diagrammi forze di serraggio - Diagrams with clamping force
Morse tipo
Vises type
3

 VITE: Ø 24 mm / Ø 30 mm PASSO: 2 mm
 SCREW: Ø 24 mm / Ø 30 mm PITCH: 2 mm
 Chiave dinamometrica / Torque wrench


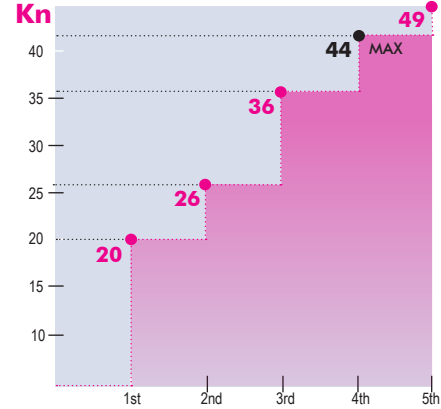
Posizioni ghiera limitatore / Fixed nut positions

Morse tipo
Vises type
4

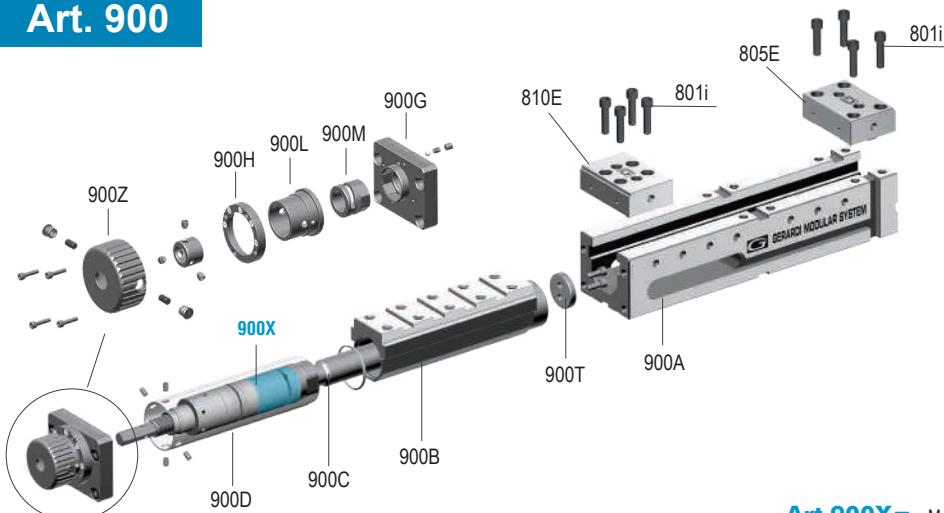
 VITE: Ø 24 mm / Ø 30 mm PASSO: 2 mm
 SCREW: Ø 24 mm / Ø 30 mm PITCH: 2 mm
 Chiave dinamometrica / Torque wrench


Posizioni ghiera limitatore / Fixed nut positions

Morse tipo
Vises type
5

 VITE: Ø 24 mm / Ø 30 mm PASSO: 2 mm
 SCREW: Ø 24 mm / Ø 30 mm PITCH: 2 mm
 Chiave dinamometrica / Torque wrench


Posizioni ghiera limitatore / Fixed nut positions

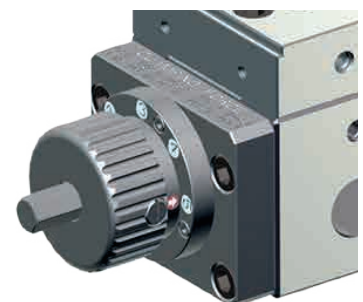
Art. 900


Art.	Pag.
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900Y	40
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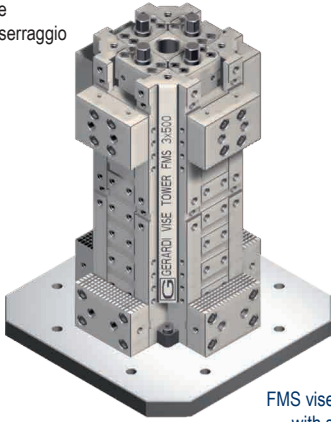
810E	57
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805E	55
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Art.900X= Modulo per serraggio meccanico - Module for mechanical clamping

Tipo (grandezza) morsa / Vise type (size)	kN	1		2			3		
		25 kN		25 kN			30 kN		
Apertura massima / Max. opening	A	85	185	170	270	370	470	230	330
Art. 800C	A1	115		130			170		
	B	25		30			40		
	D	200	300	300	400	500	600	400	500
	E	232	332	320	420	520	620	425	525
	G1	120		175			210		
	L	300		350			400		
	M	33		33			38		
	W	74		94			124		
	kg	30	45	53	70	88	106	90	112

Cubo-morsa FMS con ganasce piane per il serraggio di 4 pezzi



FMS vise tower with straight jaws for 4 clamping stations

SPECIFICA SOLO PER SERRAGGI SINGOLI
 SPECIFIC FOR SINGLE CLAMPING ONLY

Cod.	5.80.0C120	5.80.0C130	5.80.0C230	5.80.0C240	5.80.0C250	5.80.0C260	5.80.0C340	5.80.0C350
€	6.162	6.858	7.648	8.471	9.372	10.278	9.912	11.128

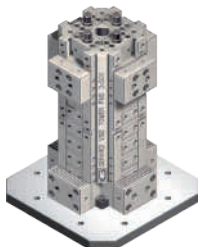
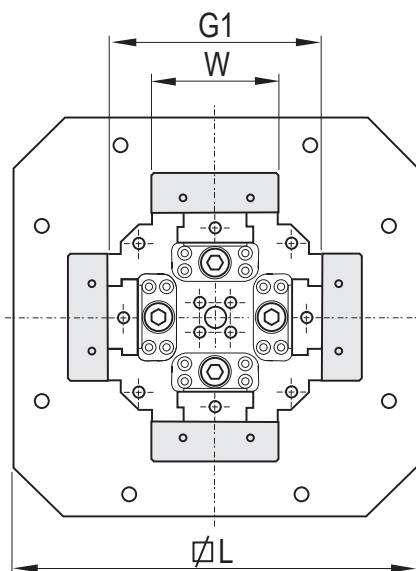
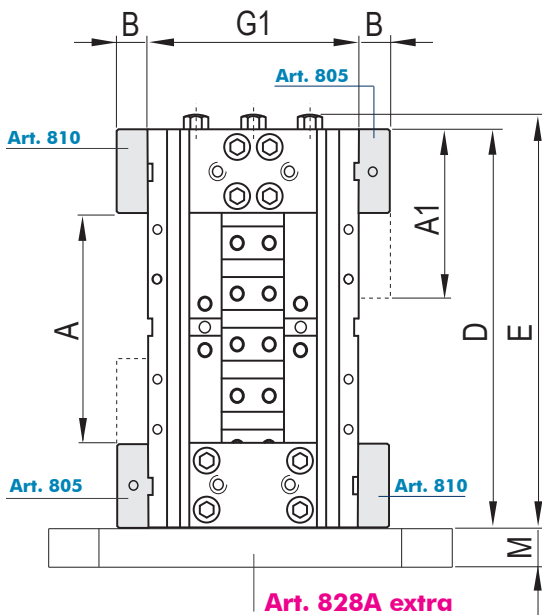
Questa morsa, pur essendo parte del programma FMS, non è predisposta per serraggi doppi o autocentranti

Art. 800G

Modulo base cubo morsa FMS (senza ganasce)
 FMS vise tower base (without jaws)

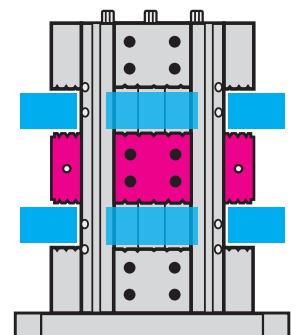
Cod.	5.80.0G120	5.80.0G130	5.80.0G230	5.80.0G240	5.80.0G250	5.80.0G260	5.80.0G340	5.80.0G350
€	5.432	6.128	6.474	7.296	8.198	9.103	8.596	9.810

GANASCE REVERSIBILI
 REVERSIBLE JAWS



- Dotazione standard per Art. 800C
- 1 chiave a pipa Art. 375
 - 4 arresti laterali Art. 370
 - 2 coppie di tasselli di posizionamento per cava da 16 mm Art. 297
 - 1 golphare di sollevamento Art. 848
 - Imballo in cassa di legno

- Standard equipment for Art. 800C
- 1 box wrench Art. 375
 - 4 workstops Art. 370
 - 2 pair of positioning key-nuts for 16 mm slot Art. 297
 - 1 lifting hook Art. 848
 - Wooden box packaging



	3 30 kN			4 30 kN				5 32 kN			6 32 kN		
A	430	530	630	300	400	500	600	380	480	580	480	580	680
A1	170			509				630			810		
B	40			50				60			60		
D	600	700	800	500	600	700	800	600	700	800	800	900	1000
E	625	725	825	525	625	725	825	625	725	825	825	925	1025
G1	210			245				280			290		
L	400			450				500			550		
M	38			38				38			38		
W	124			144				169			189		
kg	135	157	180	180	210	252	288	260	303	340	500	562	625

Cod.	5.80.0C360	5.80.0C370	5.80.0C380	5.80.0C450	5.80.0C460	5.80.0C470	5.80.0C480	5.80.0C560	5.80.0C570	5.80.0C580	5.80.0C680	5.80.0C690	5.80.0C610
€	12.360	13.599	14.907	11.950	13.524	15.174	16.816	14.346	16.330	18.406	21.722	24.632	28.239

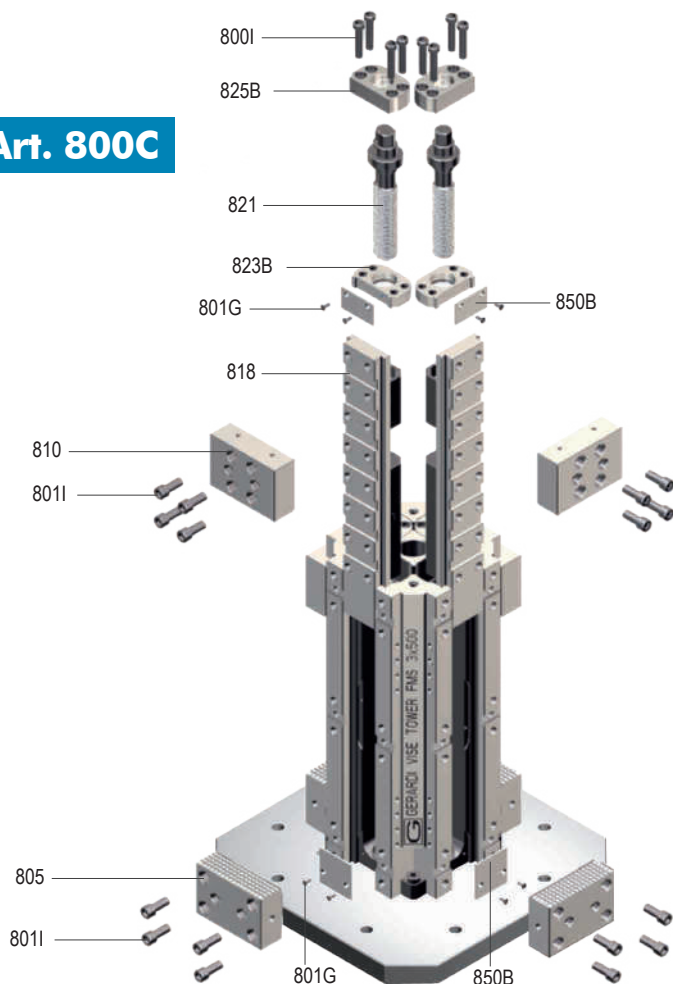
This type of vise even if it is part of the FMS series is not suitable for double or self-centering clamping

Cod.	5.80.0G360	5.80.0G370	5.80.0G380	5.80.0G450	5.80.0G460	5.80.0G470	5.80.0G480	5.80.0G560	5.80.0G570	5.80.0G580	5.80.0G680	5.80.0G690	5.80.0G610
€	11.044	12.282	13.590	10.143	11.718	13.368	15.010	11.926	13.910	15.985	18.411	21.321	24.929

Art. 800C

GANASCE REVERSIBILI
REVERSIBLE JAWS

Esplso di cubo-morsa FMS con ganasce piane per il serraggio di 4 pezzi
 Explode of FMS vise tower with straight jaws for 4 clamping stations

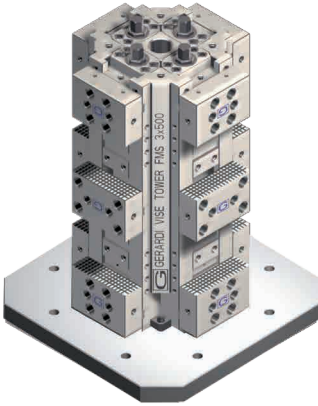


Art.	Pag.	Art.	Pag.
800I	5.61	-	-
801G	5.61	-	-
801I	5.61	-	-
810	5.56	-	-
818	5.52	-	-
821	5.53	-	-
823B	5.59	-	-
825B	5.59	-	-
850B	5.61	-	-
-	-	-	-
-	-	-	-

Tipo (grandezza) morsa / Vise type (size)	kN	1		2				3	
		25 kN		25 kN				30 kN	
Apertura massima / Max. opening	A	2 x 16	2 x 66	2 x 54	2 x 104	2 x 154	2 x 204	2 x 74	2 x 124
	B	25		30				40	
	D	200	300	300	400	500	600	400	500
	E	232	332	320	420	520	620	425	525
	G1	120		175				210	
	L	300		350				400	
	M	33		33				38	
	W	74		94				124	
	kg	30	45	53	70	88	106	90	112
	Cod.	5.86.0C120	5.86.0C130	5.86.0C230	5.86.0C240	5.86.0C250	5.86.0C260	5.86.0C340	5.86.0C350
	€	6.850	7.576	8.667	9.552	10.011	11.299	10.831	12.049

Art. 860C

Cubo-morsa FMS doppio per il serraggio di 8 pezzi



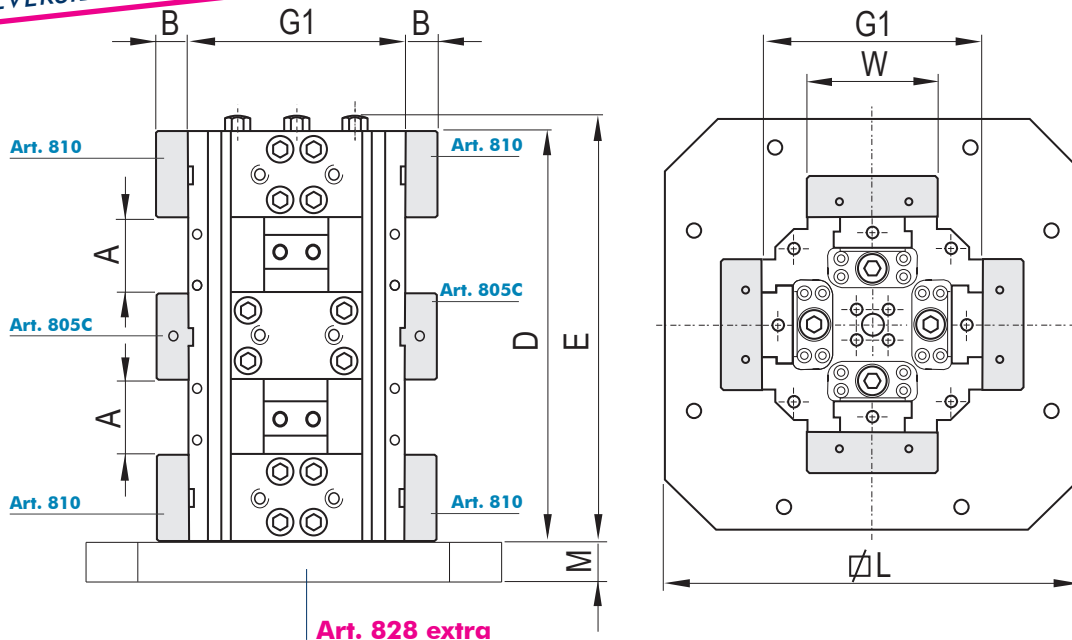
Double FMS vise tower for 8 clamping stations

Art. 855C

Modulo base cubo morsa FMS doppia (senza ganasce)
 FMS Double vise tower base (without jaws)

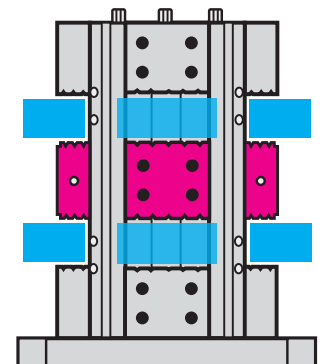
Cod.	5.85.5C120	5.85.5C130	5.85.5C230	5.85.5C240	5.85.5C250	5.85.5C260	5.85.5C340	5.85.5C350
€	5.796	6.507	6.943	7.826	8.288	9.573	8.868	10.083

GANASCE REVERSIBILI REVERSIBLE JAWS



- Dotazione standard per Art. 860C
- 1 chiave a pipa Art. 375
 - 4 arresti laterali Art. 370
 - 2 coppie di tasselli di posizionamento per cava da 16 mm Art. 297
 - 1 goliare di sollevamento Art. 848
 - Imballo in cassa di legno
 - Meccanismo 3a mano

- Standard equipment for Art. 860C
- 1 box wrench Art. 375
 - 4 workstops Art. 370
 - 2 pair of positioning key-nuts for 16 mm slot Art. 297
 - 1 lifting hook Art. 848
 - Wooden box packaging
 - Third hand device



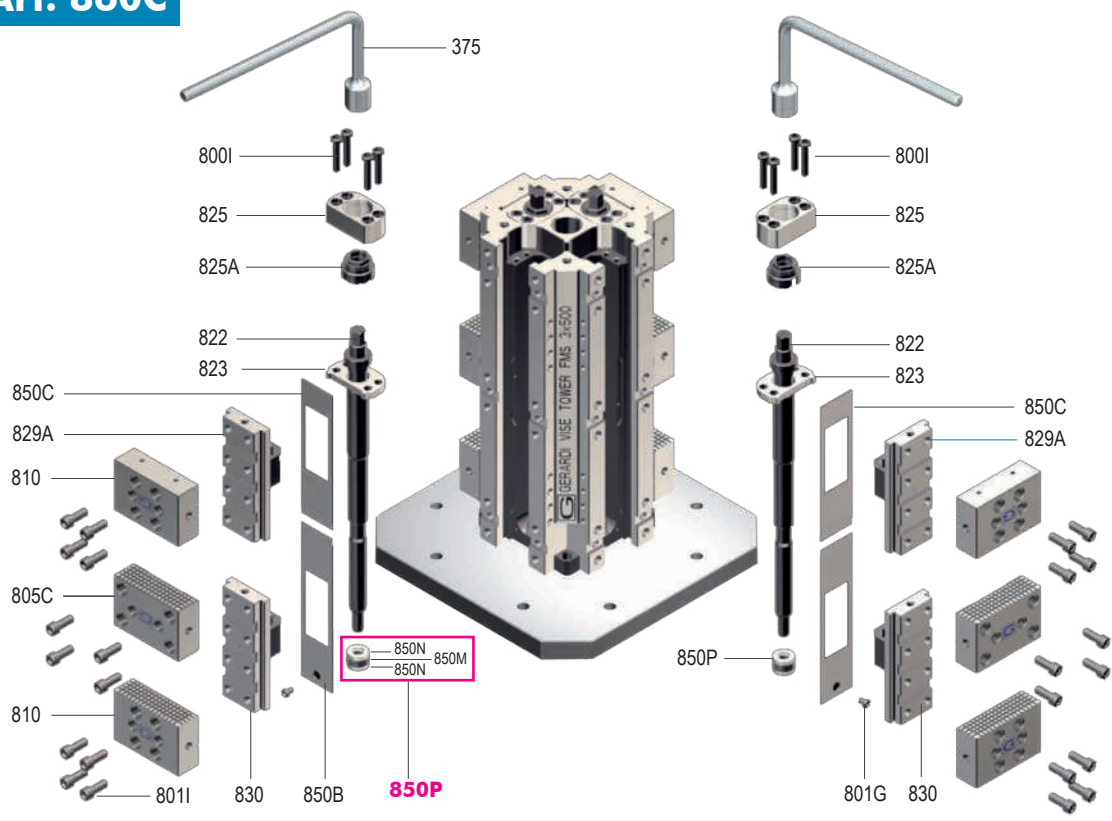
	3 30 kN			4 30 kN				5 32 kN			6 32 kN		
A	2 x 174	2 x 224	2 x 274	2 x 103	2 x 153	2 x 203	2 x 253	2 x 138	2 x 188	2 x 238	2 x 238	2 x 288	2 x 338
B	40			50				60			60		
D	600	700	800	500	600	700	800	600	700	800	800	900	1000
E	625	725	825	525	625	725	825	625	725	825	825	925	1025
G1	210			245				280			290		
L	400			450				500			550		
M	38			38				38			38		
W	124			144				169			189		
kg	135	157	180	180	210	252	288	260	303	340	500	562	625

Cod.	5.86.0C360	5.86.0C370	5.86.0C380	5.86.0C450	5.86.0C460	5.86.0C470	5.86.0C480	5.86.0C560	5.86.0C570	5.86.0C580	5.86.0C680	5.86.0C690	5.86.0C610
€	13.281	14.520	15.827	13.582	15.155	16.808	18.450	16.634	18.619	20.679	24.578	28.133	31.767

Cod.	5.85.5C360	5.85.5C370	5.85.5C380	5.85.5C450	5.85.5C460	5.85.5C470	5.85.5C480	5.85.5C560	5.85.5C570	5.85.5C580	5.85.5C680	5.85.5C690	5.85.5C610
€	11.315	12.554	13.863	10.905	12.479	14.131	15.773	13.037	15.024	17.083	19.661	23.217	26.851

GANASCE REVERSIBILI
REVERSIBLE JAWS

Art. 860C



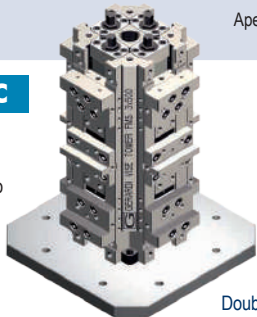
Art.	Pag.
375	4.35
8001	5.61
801G	5.61
8011	5.61
805C	5.54
810	5.56
822	5.53
823	5.59
825	5.59
825A	5.61
829A	5.52
830	5.52
850B	5.61
850C	5.61
850P	5.61
-	-
-	-

Tipo (grandezza) morsa / Vise type (size)

kN	1		2				3		
	25 kN		25 kN				30 kN		
Apertura massima Max. opening	A	2 x 60	2 x 110	2 x 118	2 x 168	2 x 218	2 x 268	2 x 162	2 x 212

Art. 863C

Cubo morsa FMS doppio con ganasce a gradino per il serraggio di 8 pezzi



Double FMS vise tower with step-type jaws for 8 clamping stations

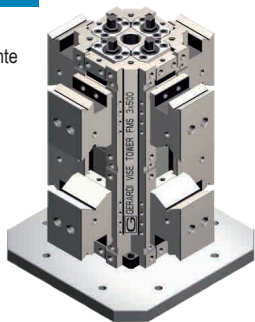
Cod.	5.86.3C120	5.86.3C130	5.86.3C230	5.86.3C240	5.86.3C250	5.86.3C260	5.86.3C340	5.86.3C350
€	7.461	8.175	9.292	10.175	10.636	11.920	11.455	12.672

Ø Apertura Minima / Massima
Ø Minimum - Max Opening

A	10 / 25	10 / 50	25 / 100
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Art. 870C

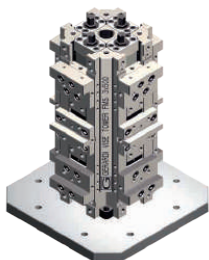
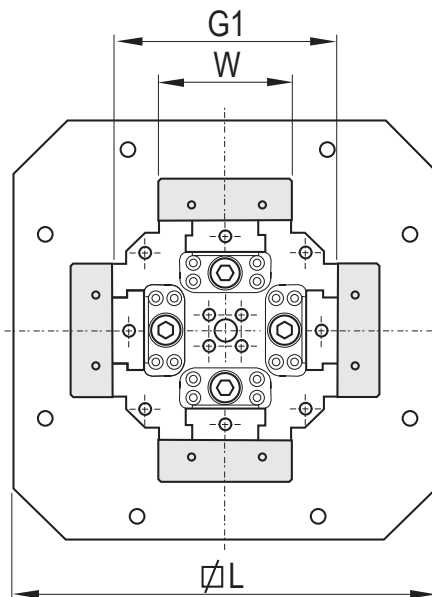
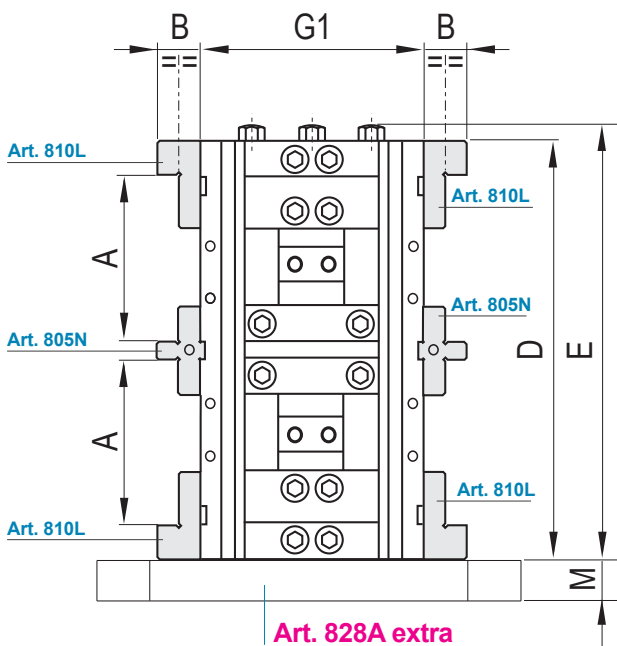
Cubo morsa FMS autocentrante con ganasce prismatiche



Self-centering FMS vise tower with prismatic jaws

Cod.	5.87.0C120	5.87.0C130	5.87.0C230	5.87.0C240	5.87.0C250	5.87.0C260	5.87.0C340	5.87.0C350
€	6.943	7.655	8.552	9.436	9.897	11.183	10.744	11.958

D	200	300	300	400	500	600	400	500
E	232	332	320	420	520	620	425	525
G1	120			175			210	
L	300			350			400	
M	33			33			38	
W	74			94			124	
W1	60			75			100	
kg	42	63	68	90	113	130	118	147

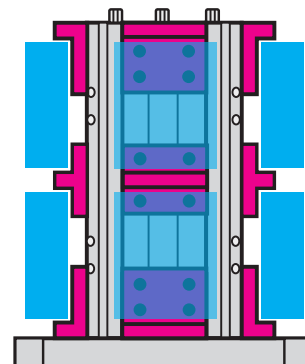


Dotazione standard per Art. 860C

- 1 chiave a pipa Art. 375
- 4 arresti laterali Art. 370
- 2 coppie di tasselli di posizionamento per cava da 16 mm Art. 297
- 1 golfare di sollevamento Art. 848
- Imballo in cassa di legno
- Meccanismo 3a mano

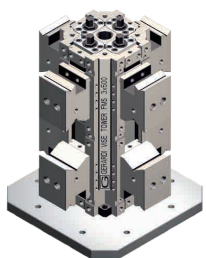
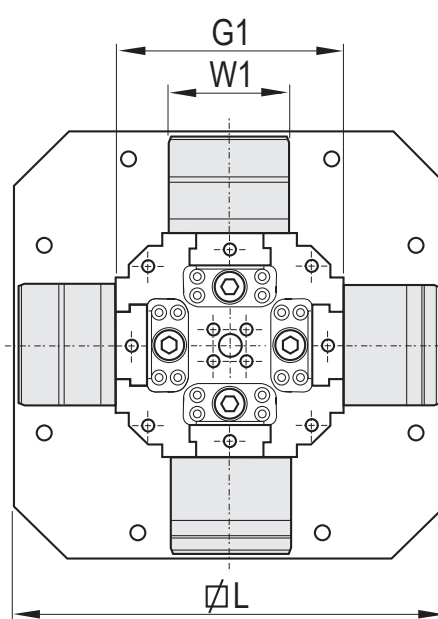
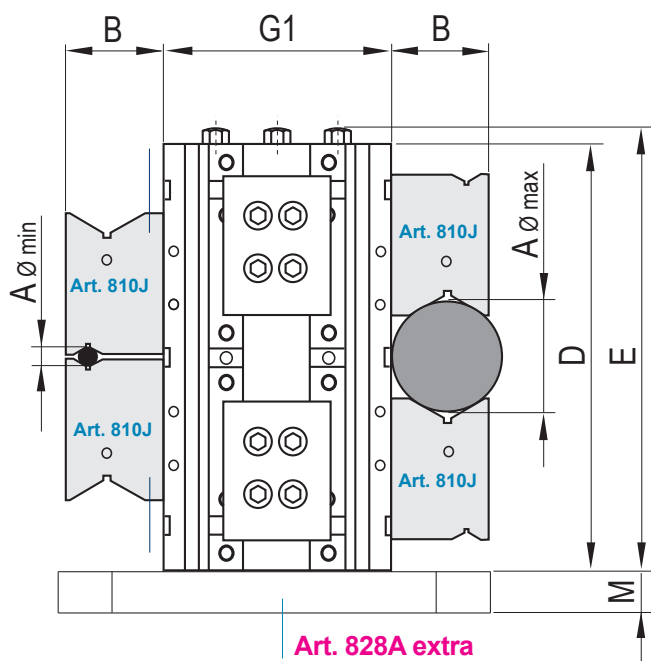
Standard equipment for Art. 860C

- 1 box wrench Art. 375
- 4 workstops Art. 370
- 2 pair of positioning key-nuts for 16 mm slot Art. 297
- 1 lifting hook Art. 848
- Wooden box packaging
- Third hand device



3 30 kN			4 30 kN				5 32 kN			6 32 kN			
A	2 x 262	2 x 312	2 x 362	2 x 204	2 x 254	2 x 304	2 x 354	2 x 254	2 x 304	2 x 354	2 x 354	2 x 404	2 x 454
Cod.	5.86.3C360	5.86.3C370	5.86.3C380	5.86.3C450	5.86.3C460	5.86.3C470	5.86.3C480	5.86.3C560	5.86.3C570	5.86.3C580	5.86.3C680	5.86.3C690	5.86.3C610
€	13.905	15.145	16.453	14.277	15.852	17.503	19.146	17.580	19.567	21.624	25.621	29.175	32.810

A	25 / 100			30 / 150				35 / 200			40 / 300		
Cod.	5.87.0C360	5.87.0C370	5.87.0C380	5.87.0C450	5.87.0C460	5.87.0C470	5.87.0C480	5.87.0C560	5.87.0C570	5.87.0C580	5.87.0C680	5.87.0C690	5.87.0C610
€	13.192	14.432	15.739	13.547	15.121	16.773	18.416	16.216	18.202	20.260	25.828	29.380	33.015
D	600	700	800	500	600	700	800	600	700	800	800	900	1000
E	625	725	825	525	625	725	825	625	725	825	825	925	1025
G1	210			245				280			290		
L	400			450				500			550		
M	38			38				38			38		
W	124			144				169			189		
W1	100			132				140			160		
kg	177	206	236	242	290	339	388	328	383	437	656	738	820

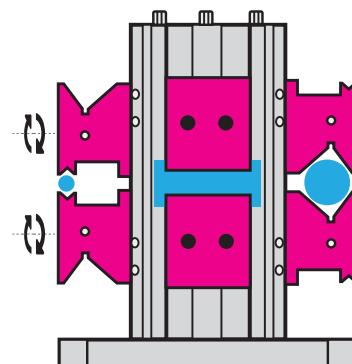


Dotazione standard per
Art. 863C e Art. 870C:

- 1 chiave a pipa Art. 375
- 4 arresti laterali Art. 370
- 2 coppie di tasselli di posizionamento per cava da 16 mm Art. 297
- 1 golfare di sollevamento Art. 848
- Imballo in cassetta di legno
- Meccanismo 3a mano

Standard equipment for
Art. 863C and Art. 870C:

- 1 box wrench Art. 375
- 4 workstops Art. 370
- 2 pair of positioning key-nuts for 16 mm slot Art. 297
- 1 lifting hook Art. 848
- Packaging wooden box
- Third hand device



COMPONENTI PER CUBO FMS SPARE PARTS FOR FMS CUBE

Art. 855C

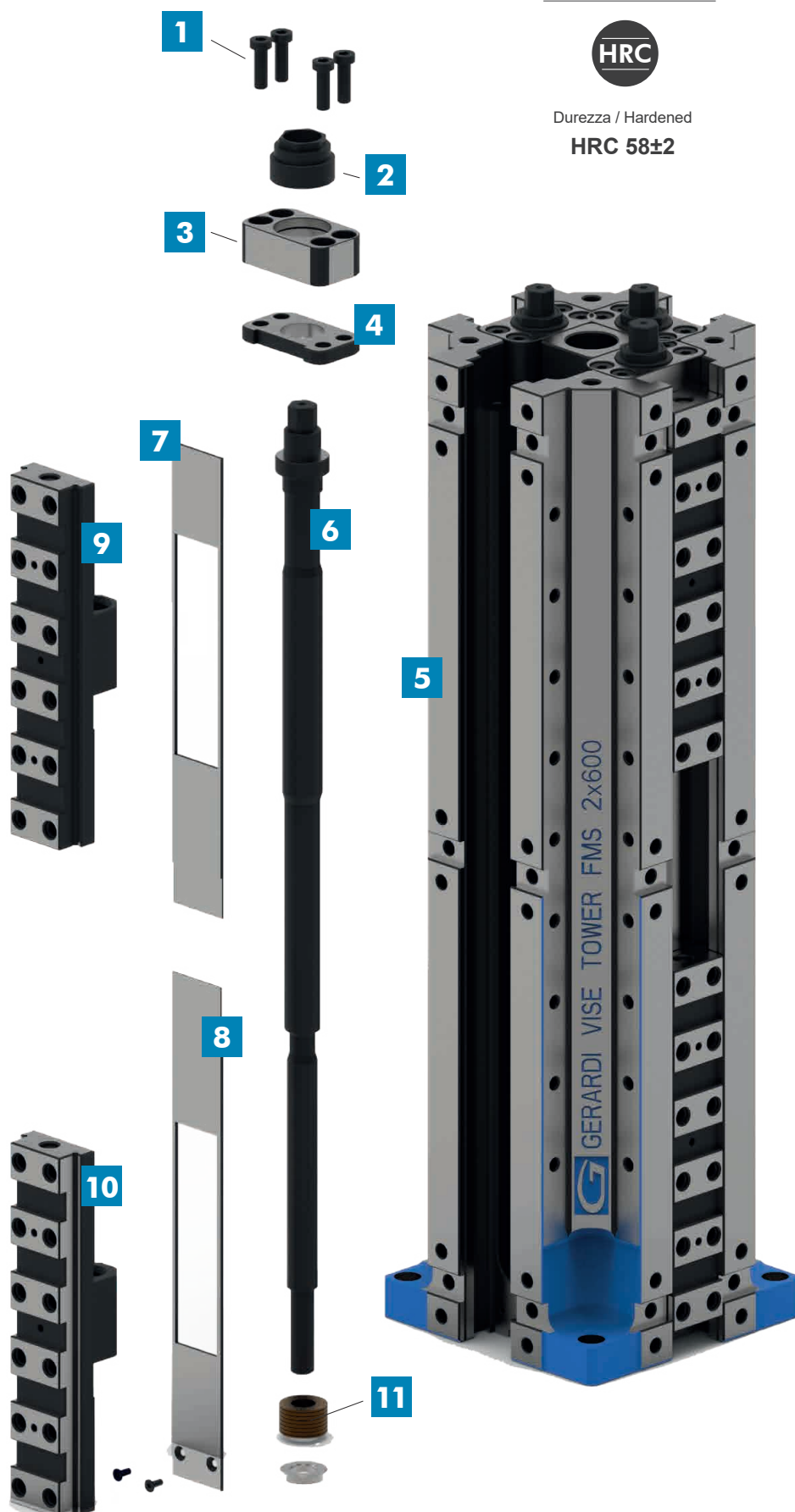


Precisione / Accuracy
±0,02mm



Durezza / Hardened
HRC 58±2

- 1** Art.8001
VITI PER GANASCE
SCREWS FOR JAWS
- 2** Art.825A
GHIERA
NUT
- 3** Art.825B
PIASTRA DI CONTENIMENTO
SCREW HOLDING PLATE
- 4** Art.823
PIASTRA INTERMEDIA
MIDDLE PLATE
- 5** Art.804
CORPO BASE CUBO
CUBE BASE BODY
- 6** Art.822
VITE DI BLOCCAGGIO
MAIN SCREW
- 7** Art.850C
RIPARO
PROTECTION
- 8** Art.850B
RIPARO LATO VITE
PROTECTION SIDE SCREW
- 9** Art.830
SLITTA FILETTO DESTRO
SLIDE WITH RIGHT THREAD
- 10** Art.829A
SLITTA FILETTO SINISTRO
SLIDE WITH LEFT THREAD
- 11** Art.850P
DISPOSITIVO TERZA MANO
THIRD HAND DEVICE



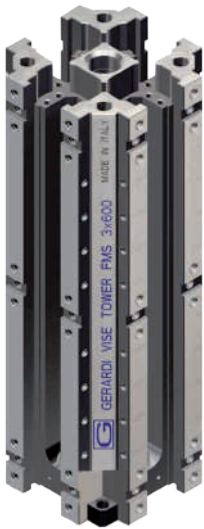
Tipo (grandezza) Type (size)	1		2			3			4			5			6						
Larghezza base / Base length	200	300	300	400	500	600	400	500	600	700	800	500	600	700	800	600	700	800	800	900	1000

Art. 804

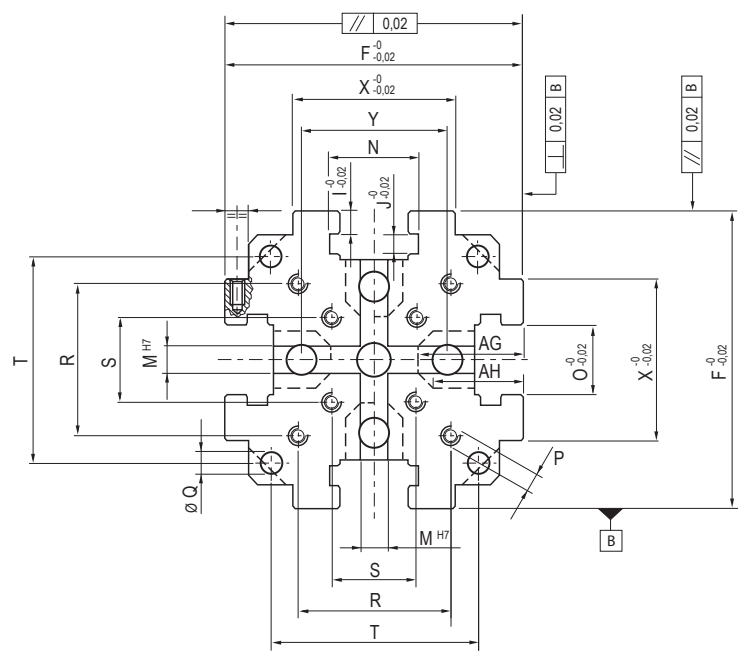
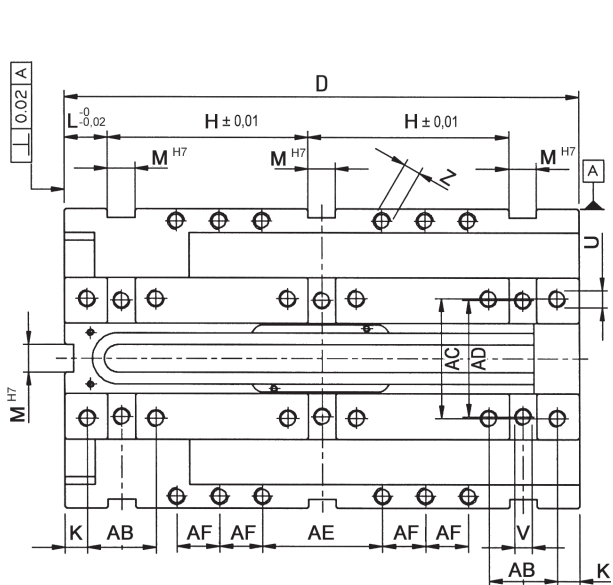
Cod.	5.80.41200	5.80.41300	5.80.42300	5.80.42400	5.80.42500	5.80.42600	5.80.43400	5.80.43500	5.80.43600	5.80.43700	5.80.43800	5.80.44500	5.80.44600	5.80.44700	5.80.44800	5.80.45600	5.80.45700	5.80.45800	5.80.46800	5.80.46900	5.80.46100
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Corpo base cubo FMS.
 Disegni e tabella dimensionale
 FMS cube base body.
 Drawing and table dimension

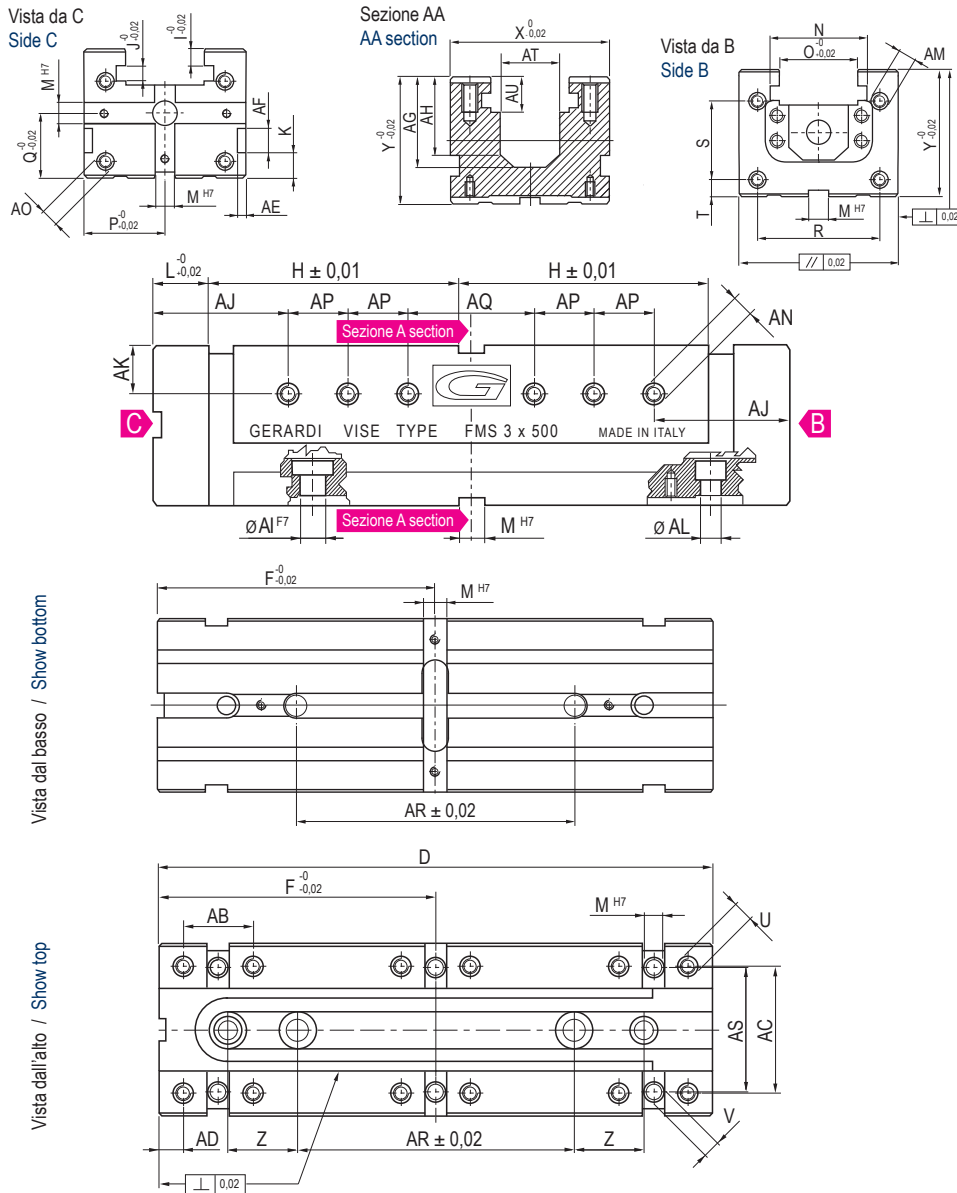
€	2.381	3.126	3.574	4.167	5.058	5.952	4.756	5.352	6.240	7.133	8.315	5.946	6.838	8.026	9.212	7.430	8.616	10.103	11.289	13.366	15.740
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D	200	300	300	400	300	400	400	500	600	700	800	500	600	700	800	600	700	800	800	900	1000
F	140				175					210				245			280				290
H	71	121	117	167	217	267	157	207	257	307	357	200	250	300	350	245	295	345	345	395	445
I	10				13					13				20			20				20
J	10				12					12				18			18				18
K	13				13					13				20			20				20
L	21				25					35				42			47				47
M	16				16					16				16			16				16
N	45				53					76				86			96				110
O	35				41					61				71			81				94
P	M10				M12					M12				M16			M16				M20
Q	11				13					13				13			17				17
R	-				100					120				150			150				150
S	-				40					40				40			50				50
T	-				120					16				16			16				210
U	M8				M10					M12				M16			M16				M20
V	M8				M10					M12				M12			M12				M12
Z	M10				M10					M10				M10			M10				M10
X	75				95					125				145			170				190
Y	70				85					110				125			140				130
AB	32				40					50				60			68				68
AC	56				70					92				108			126				144
AD	56				68					92				106			126				144
AE	50	70			70					100				100			100				125
AF	10	25			50					50				50			50				50
AG	49				62					62				80			95				105
AH	41				53					72				70			82				95



Tipo (grandezza) morsa / Vise type (size)
Art. 801

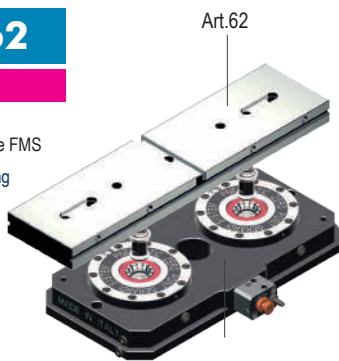
 Base morsa FMS. Disegni e tabella dimensionale
 FMS vise base body. Drawing and table dimension


Vista dal basso / Show bottom

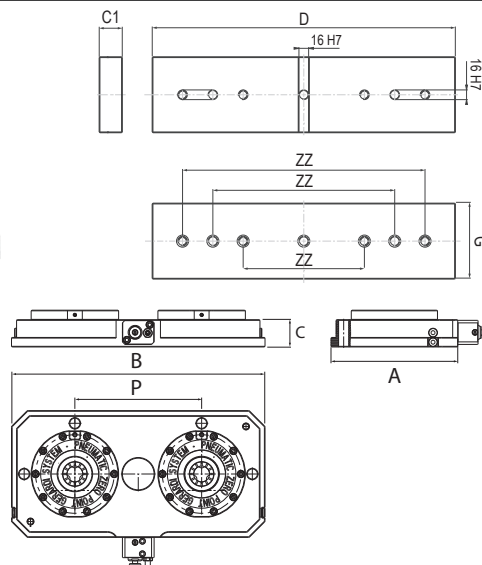
Vista dall'alto / Show top

	1		2	
kg	4,7	7,3	12,8	19
Cod.	5.80.11200	5.80.11300	5.80.12300	5.80.12400
€	479	629	718	838
D	200	300	300	400
F	100	150	150	200
H	71	121	117	167
I	10		13	
J	10		12	
K	15		20	
L	21		25	
M	16		16	
N	45		53	
O	35		41	
P	37,5		47,5	
Q	35		45	
R	52		70	
S	30		48	
T	20		22	
U	M8		M10	
V	M8		M10	
Z	50		50	
X	75		95	
Y	70		90	
AB	32		40	
AC	56		70	
AD	13		13	
AE	4		6	
AF	16		16	
AG	49		62	
AH	41		53	
AI	Ø 16 X 2		Ø 16 X 2	
AJ	55		65	
AK	20		27	
AL	Ø 11		Ø 13	
AM	n°0	n°2	n° 2	n° 2
AN	M10		M10	
AO	M10		M10	
AP	20	25	50	
AQ	50	70	70	
AR	100	200	200	
AS	56		68	
AT	28		34	
AU	23		28	

PIASTRE D'INTERFACCIA ZERO POINT
Tipo (grandezza) / Type (size)
Art. 62
FMS

 Piastra di interfaccia
 Zero Point per morse FMS
 Zero Point connecting
 plate for FMS vises

 Tiranti e viti INCLUSI
 Pull Studs and screws INCLUDED

Art. 81P

 Piastra Zero Point in acciaio con montaggio incassato
 Zero Point steel plate built-in mounting


	1		2	
D	232	332	300	400
G	75		95	
C1	38		38	
ZZ	200 / 300		200 / 300 / 400	
kg	5	7	11	13,4
Cod.	5.62.12000	5.62.13000	5.62.23000	5.62.24000
€	193	254	289	336
A	200		200	
B	400		400	
C	43		43	
Art. 665	Tipo / Type T.2		Tipo / Type T.2	
P	200		200	
kg	29		29	
Cod.	9.81.P2040S2		9.81.P2040S2	
€	2.724		2.724	

	2		3					4				5			6		
kg	23	27	26	31	39	46	52	47	56	65	75	71	82	94	140	156	174
Cod.	5.80.12500	5.80.12600	5.80.13400	5.80.13500	5.80.13600	5.80.13700	5.80.13800	5.80.14500	5.80.14600	5.80.14700	5.80.14800	5.80.15600	5.80.15700	5.80.15800	5.80.16800	5.80.16900	5.80.16100
€	1.014	1.195	954	1.075	1.251	1.431	1.667	1.194	1.370	1.607	1.845	1.491	1.728	2.023	2.260	2.677	3.152
D	500	600	400	500	600	700	800	500	600	700	800	600	700	800	800	900	1000
F	250	300	200	250	300	350	400	250	300	350	400	300	350	400	400	450	500
H	217	267	157	207	257	307	357	200	250	300	350	245	295	345	345	395	445
I	13				13					20			20				20
J	12				12					18			18				18
K	20				20					20			26				26
L	25				35					42			47				47
M	16				16					16			16				16
N	53				76					86			96				110
O	41				61					71			82				94
P	47,5				62,5					72,5			85				95
Q	45				50					60			70				80
R	70				92					108			126				144
S	48				62					72			92				100
T	22				13					16			18				20
U	M10				M12					M16			M16				M20
V	M10				M12					M12			M12				M12
Z	50				50					50			50				50
X	95				125					145			170				190
Y	90				100					120			140				160
AB	40				50					60			68				68
AC	70				92					108			126				144
AD	13				18					20			21				20
AE	6				6					10			10				10
AF	16				16					16			16				16
AG	62				72					80			95				105
AH	53				62					70			82				95
AI	∅ 16 x 2				∅ 16 x 2					∅ 16 x 2			∅ 16 x 2				∅ 16 x 2
AJ	65				100					100			100				125
AK	27				32					40			48				58
AL	∅ 13				∅ 13					∅ 13			∅ 17				∅ 17
AM	n° 4	n° 6	n° 2	n° 4	n° 6	n° 8	n° 10	n° 4	n° 6	n° 8	n° 10	n° 6	n° 8	n° 10	n° 10	n° 12	n° 14
AN	M10				M12					M12			M16				M20
AO	M10				M10M					M10			M10				
AP	n° 20	n° 24	n° 8	n° 12	n° 16	n° 20	n° 24	n° 12	n° 16	n° 20	n° 24	n° 16	n° 20	n° 24	n° 24	n° 28	n° 32
AQ	50				50					50			50				50
AR	70				100					100			100				125
AS	200				200					200		400	400	600	400	400	400
AT	68				92					106			126				144
AU	34				44					44			52				49
AU	28				28					41			41				41

ZERO POINT CONNECTING PLATES

	2		3					4				5			6		
D	500	600	400	500	600	700	800	500	600	700	800	600	700	800	800	900	1000
G	95				125					145			170			190	
C1	38				53					38			38			38	
ZZ	200 / 300 / 400				200 / 300 / 400					200 / 300 / 400			200 / 300 / 400			200 / 300 / 400	
kg	16,1	18,9	13,9	17,8	21,5	25,1	28,5	20,8	25	29,3	33,5	29	34	39	44	49	55
Cod.	5.62.25000	5.62.26000	5.62.34000	5.62.35000	5.62.36000	5.62.37000	5.62.38000	5.62.45000	5.62.46000	5.62.47000	5.62.48000	5.62.56000	5.62.57000	5.62.58000	5.62.68000	5.62.69000	5.62.61000
€	407	479	383	431	501	574	716	479	549	646	741	597	693	811	906	1.071	1.262
A	200		200	200	200			200	200	200		200	200		250	250	
B	600		400	500	600		800	500	600	800		600	800		800	1000	
C	43			43					43			43			43		
Art. 665	Tipo / Type T.2			Tipo / Type T.2					Tipo / Type T.2			Tipo / Type T.2			Tipo / Type T.3		
P	300		200	250	200x2		300x2	250	200x2	300x2		200x2	300x2		300x2	400x2	
kg	42		29	41	42		59	41	42	59		42	59		68,5	81,5	
Cod.	9.81.P2060S2		9.81.P2040S2	9.81.P2060S2	9.81.P2060S3		9.81.P2080S3	9.81.P2060S2	9.81.P2060S3	9.81.P2080S3		9.81.P2060S3	9.81.P2080S3		9.81.P32580S3	9.81.P325100S3	
€	2.837		2.724	2.793	3.972		4.142	2.793	3.972	4.142		3.972	4.142		5.311	5.447	

Tipo (grandezza) Type (size)	1		2				3					4				5			6		
Larghezza base / Base length	200	300	300	400	500	600	400	500	600	700	800	500	600	700	800	600	700	800	800	900	1000

Art. 818

Slitta integrale lunga
Solid long slide



Cod.	5.81. 81200	5.81. 81300	5.81. 82300	5.81. 82400	5.81. 82500	5.81. 82600	5.81. 83400	5.81. 83500	5.81. 83600	5.81. 83700	5.81. 83800	5.81. 84500	5.81. 84600	5.81. 84700	5.81. 84800	5.81. 85600	5.81. 85700	5.81. 85800	5.81. 86800	5.81. 86900	5.81. 86100
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€	356	417	568	642	712	842	671	788	908	1.027	1.145	854	973	1.092	1.212	1.075	1.251	1.431	1.549	1.728	1.916
A	18		24						30				30			36			36		
A1	18		18						24				24			30			30		
A2	24		24						30				30			36			36		
B	35		45						50				60			70			80		
C	170	264	256	356	456	556	346	446	546	646	746	435	535	635	735	525	625	725	725	825	925
D	M8		M10						M12				M16			M16			M20		
E	72	116	102	142	182	222	132	182	232	282	332	156	216	276	336	174	242	310	242	310	378
F	48,5		61,5						71				80			95			106		
G	15	18		23					33				40			45			45		
H	2	3	2	3	4	5	2	3	4	5	6	2	3	4	5	2	3	4	2	3	4
I	10		13						13				20			20			20		
J	10		12						12				18			18			18		
K	-	-	5	7	9				5				5			6			9		
L	44		51						74				84			95			108		
M	16		16						16				16			16			16		
N	20		23						33				40			45			45		
O	35		41						61				71			82			94		
S	26	32	40						50				60			68			68		
T	20		25						38				44			44			54		
V	27		33						43				43			51			48		
W	10	16	24						34				44			52			52		

Art. 829A

Slitta con filetto destro
Slide with right thread



Cod.	5.82. 9A120	5.82. 9A130	5.82. 9A230	5.82. 9A240	5.82. 9A250	5.82. 9A260	5.82. 9A340	5.82. 9A350	5.82. 9A360	5.82. 9A370	5.82. 9A380	5.82. 9A450	5.82. 9A460	5.82. 9A470	5.82. 9A480	5.82. 9A560	5.82. 9A570	5.82. 9A580	5.82. 9A680	5.82. 9A690	5.82. 9A610
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€	208	264	290	337	356	409	337	396	457	517	576	457	517	576	632	576	632	694	812	932	1.051
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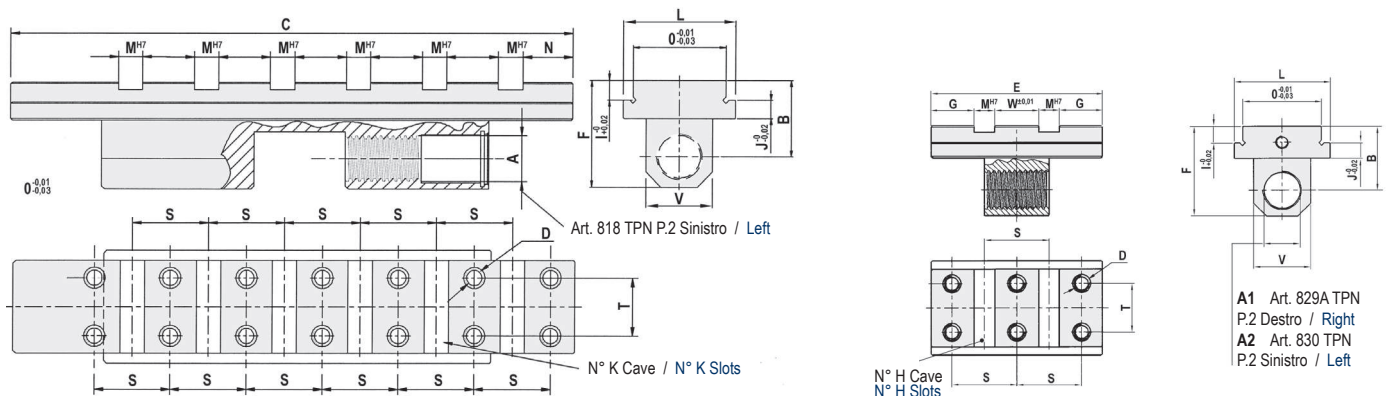
Art. 830

Slitta con filetto sinistro
Slide with left thread



Cod.	5.83. 01200	5.83. 01300	5.83. 02300	5.83. 02400	5.83. 02500	5.83. 02600	5.83. 03400	5.83. 03500	5.83. 03600	5.83. 03700	5.83. 03800	5.83. 04500	5.83. 04600	5.83. 04700	5.83. 04800	5.83. 05600	5.83. 05700	5.83. 05800	5.83. 06800	5.83. 06900	5.83. 06100
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€	208	264	290	337	356	409	337	396	457	517	576	457	517	576	632	576	632	694	812	932	1.051
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Tipo (grandezza) Type (size)	1		2			3					4				5			6			
Larghezza base / Base length	200	300	300	400	500	600	400	500	600	700	800	500	600	700	800	600	700	800	800	900	1000

Art. 821

Vite di bloccaggio con filetto sinistro
Main screw left thread



Cod. 5.82.11300 5.82.12600 5.82.14800 5.82.14800 5.82.16100 5.82.16100

€	217		278			356					356				552			552			
A	18		24					30					30			36			36		
A1	18		18					24					24			30			30		
A2	20		24					30					30			36			36		
B	16		16					19					19			19			19		
C	-		-					-					-			-			-		
D	35		35					45					45			48			48		
E	20		25					30					30			30			30		
F	82		33					42					42			115			115		
G	13		12					16					16			15			15		
H	152		135					136					186			225			225		
I	65		90					118					118			135			135		
J	14		12					15					15			20			20		
K	5		12					26					26			55			55		
L	55		9					11					11			80			80		
M	14		19					24					24			30			30		
N	242	333	308	399	500	600	414	499	599	699	822	499	599	699	797	610	700	790	790	881	961
O	12	17	25	32	52	52	25	35	54	87	121	35	54	87	121	47	71	101	101	81	100
P	65	84	84	98	116	151	123	123	140	124	118	123	140	124	118	176	158	140	140	205	187
Q	32	66	66	106	134	164	82	132	160	226	282	132	160	226	282	124	192	256	256	245	308
R	68	85	75	94	116	136	118	118	140	124	118	118	140	124	118	176	158	140	140	205	187
S	44	6	38	49	62	77	41	66	80	113	136	66	80	113	136	62	96	128	128	120	154
T	32		32					38					38			45			45		
U	21		15		20			25					25			25			25		
AA	10		10					15					15			22			22		
AB	10		10					12					12			15			15		

Art. 822

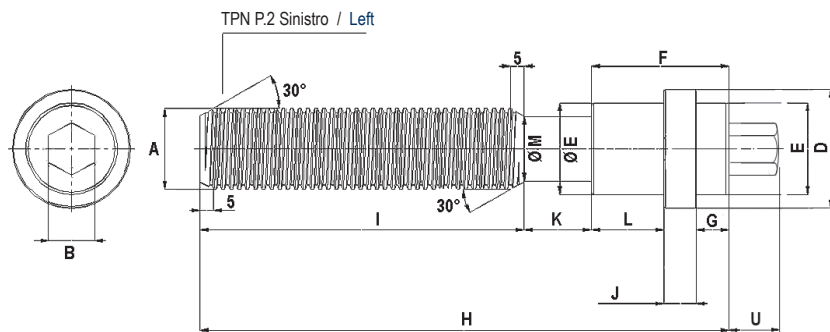
Vite di bloccaggio con filetto destro e sinistro
Main screw right and left thread

Viti con esagono maschio o femmina a seconda delle dimensioni
Screw available with external or internal hexagon



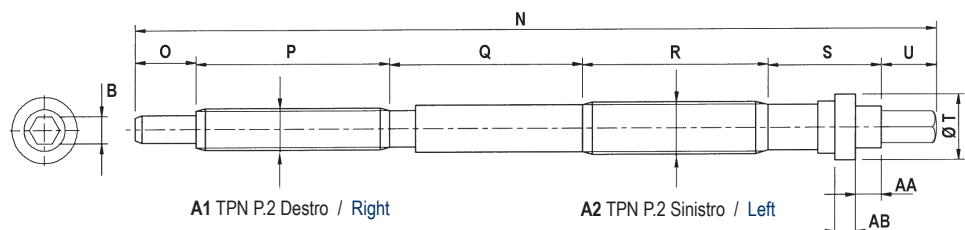
Cod. 5.82.21200 5.82.21300 5.82.22300 5.82.22400 5.82.22500 5.82.22600 5.82.23400 5.82.23500 5.82.23600 5.82.23700 5.82.23800 5.82.23500 5.82.23600 5.82.23700 5.82.23800 5.82.25600 5.82.25700 5.82.25800 5.82.26800 5.82.26900 5.82.26100

€	256	290	290	337	384	431	373	431	493	552	611	431	493	552	611	680	765	847	847	978	1.075
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Passo Filetto - Thread Pitch

TYPE	PITCH
T1 / T2 / T3	P2
T5x6	P2
T5x7	P2
T5x8	P3
T5x6	P3

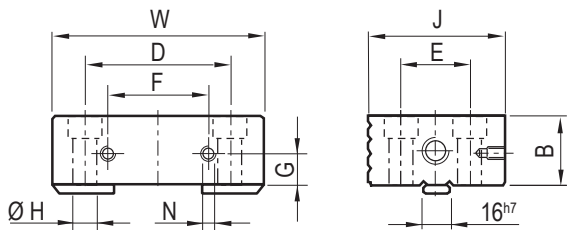


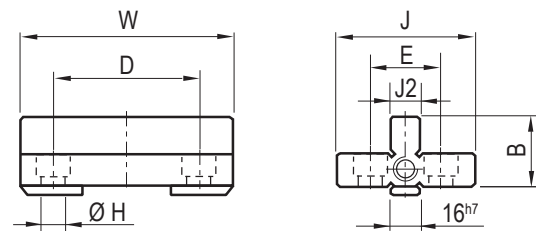
GANASCE FISSE PER MORSE FMS

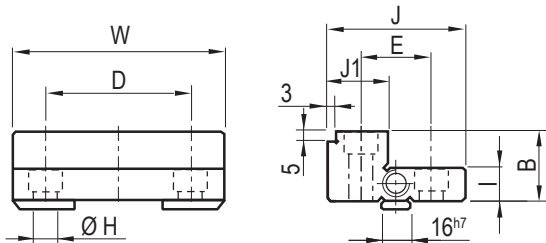
FIXED JAWS FOR FMS VISES

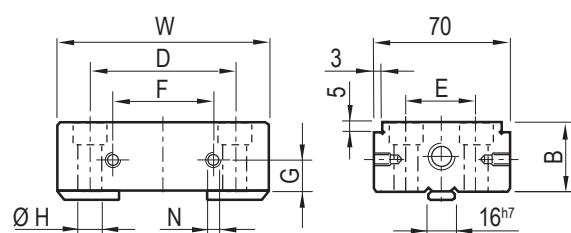
Tipo (grandezza) / Type (size)	1	2	3	4	5	6
Art. 805* Ganascia fissa zigrinata da un lato Fixed jaw one side serrated	Cod. 5.80.51000 € 92	Cod. 5.80.52000 € 148	Cod. 5.80.53000 € 165	Cod. 5.80.54000 € 227	Cod. 5.80.55000 € 303	Cod. 5.80.56000 € 415
Art. 805A* Ganascia fissa liscia Smooth fixed jaw	Cod. 5.80.5A100 € 92	Cod. 5.80.5A200 € 148	Cod. 5.80.5A300 € 165	Cod. 5.80.5A400 € 227	Cod. 5.80.5A500 € 303	Cod. 5.80.5A600 € 415
Art. 805B* Ganascia fissa dolce Soft fixed jaw	Cod. 5.80.5B100 € 92	Cod. 5.80.5B200 € 148	Cod. 5.80.5B300 € 165	Cod. 5.80.5B400 € 227	Cod. 5.80.5B500 € 303	Cod. 5.80.5B600 € 415
Art. 805C* Ganascia fissa zigrinata da ambo i lati Fixed jaw serrated on both sides	Cod. 5.80.5C100 € 92	Cod. 5.80.5C200 € 148	Cod. 5.80.5C300 € 165	Cod. 5.80.5C400 € 227	Cod. 5.80.5C500 € 303	Cod. 5.80.5C600 € 415
Art. 870A* Ganascia fissa intermedia alta Fixed Intermediate high jaw	Cod. 5.87.0A100 € 92	Cod. 5.87.0A200 € 147	Cod. 5.87.0A300 € 166	Cod. 5.87.0A400 € 227	Cod. 5.87.0A500 € 303	Cod. 5.87.0A600 € 415

Art. 805

 (Montata su Art. 860)
 (Assembled on Art. 860)

Art. 805N

 (Montata su Art. 863)
 (Assembled on Art. 863)

Art. 805O

 Ganascia fissa con gradino piccolo e grande
 Fixed jaw with small and large step

Art. 805F

 (Montata su Art. 866)
 (Assembled on Art. 866)


Tipo (grandezza) morsa / Vise (type) size

mm	1	2	3	4	5	6	Tolleranze Tolerance
W	74	94	124	144	169	189	-
J	56	64	84	98	108	108	- 0,02
J1	24	24	30	38	38	38	-
J2	16	16	16	16	16	16	-
B	25	30	40	50	60	60	- 0,02
D	56	70	92	108	126	144	-
E	32	40	50	60	68	68	-
F	40	50	65	65	65	100	-
G	10	10	15	20	25	25	-
H	9	11	13	17	17	22	-
I	12,5	15	20	25	30	30	- 0,02
N	M5	M6	M6	M6	M6	M6	-

 * Set viti per fissaggio a richiesta - Fixing screws set on request **€12**

Tipo (grandezza) / Type (size)	1	2	3	4	5	6	
Art. 805D* Ganascia fissa con gradino 3x5 zigrinata da un lato Fixed jaw with 3x5 step on side serrated		Cod. 5.80.5D100 € 129	Cod. 5.80.5D200 € 185	Cod. 5.80.5D300 € 204	Cod. 5.80.5D400 € 261	Cod. 5.80.5D500 € 339	Cod. 5.80.5D600 € 450
Art. 805E* Ganascia fissa con gradino 3x5 liscia Fixed jaw with 3x5 step smooth		Cod. 5.80.5E100 € 129	Cod. 5.80.5E200 € 185	Cod. 5.80.5E300 € 204	Cod. 5.80.5E400 € 261	Cod. 5.80.5E500 € 339	Cod. 5.80.5E600 € 450
Art. 805F* Ganascia fissa con doppio gradino 3x5 liscia Fixed jaw with double 3x5 step smooth		Cod. 5.80.5F100 € 163	Cod. 5.80.5F200 € 217	Cod. 5.80.5F300 € 242	Cod. 5.80.5F400 € 299	Cod. 5.80.5F500 € 374	Cod. 5.80.5F600 € 486
Art. 805G* Ganascia fissa con doppio gradino 3x5 zigrinata Fixed jaw with double 3x5 step serrated		Cod. 5.80.5G100 € 163	Cod. 5.80.5G200 € 217	Cod. 5.80.5G300 € 242	Cod. 5.80.5G400 € 299	Cod. 5.80.5G500 € 374	Cod. 5.80.5G600 € 486
Art. 805H* Ganascia fissa con prisma verticale Fixed jaw with vertical prism		Cod. 5.80.5H100 € 129	Cod. 5.80.5H200 € 185	Cod. 5.80.5H300 € 204	Cod. 5.80.5H400 € 261	Cod. 5.80.5H500 € 339	Cod. 5.80.5H600 € 450
Art. 805I* Ganascia fissa con doppio prisma verticale Fixed jaw with double vertical prism		Cod. 5.80.5I100 € 163	Cod. 5.80.5I200 € 217	Cod. 5.80.5I300 € 242	Cod. 5.80.5I400 € 299	Cod. 5.80.5I500 € 374	Cod. 5.80.5I600 € 486
Art. 805J* Ganascia fissa con prisma orizzontale Fixed jaw with horizontal prism		Cod. 5.80.5J100 € 129	Cod. 5.80.5J200 € 185	Cod. 5.80.5J300 € 204	Cod. 5.80.5J400 € 261	Cod. 5.80.5J500 € 339	Cod. 5.80.5J600 € 450
Art. 805K* Ganascia fissa con doppio prisma orizzontale Fixed jaw with double horizontal prism		Cod. 5.80.5K100 € 163	Cod. 5.80.5K200 € 217	Cod. 5.80.5K300 € 242	Cod. 5.80.5K400 € 299	Cod. 5.80.5K500 € 374	Cod. 5.80.5K600 € 486
Art. 805L* Ganascia fissa con gradino Step fixed jaw		Cod. 5.80.5L100 € 129	Cod. 5.80.5L200 € 185	Cod. 5.80.5L300 € 204	Cod. 5.80.5L400 € 261	Cod. 5.80.5L500 € 339	Cod. 5.80.5L600 € 450
Art. 805M* Ganascia fissa con gradino zigrinata da un lato Step fixed jaw one side serrated		Cod. 5.80.5M100 € 129	Cod. 5.80.5M200 € 185	Cod. 5.80.5M300 € 204	Cod. 5.80.5M400 € 261	Cod. 5.80.5M500 € 339	Cod. 5.80.5M600 € 450
Art. 805N* Ganascia fissa con doppio gradino Fixed jaw with double step		Cod. 5.80.5N100 € 171	Cod. 5.80.5N200 € 231	Cod. 5.80.5N300 € 250	Cod. 5.80.5N400 € 329	Cod. 5.80.5N500 € 467	Cod. 5.80.5N600 € 600
Art. 805O* Ganascia fissa con gradino piccolo e grande liscia da un lato Fixed jaw with small and large step on side smooth		Cod. 5.80.5O100 € 163	Cod. 5.80.5O200 € 217	Cod. 5.80.5O300 € 242	Cod. 5.80.5O400 € 299	Cod. 5.80.5O500 € 374	Cod. 5.80.5O600 € 486
Art. 805P* Ganascia fissa con gradino piccolo e grande zigrin. da un lato Fixed jaw with small and large step one side serrated		Cod. 5.80.5P100 € 163	Cod. 5.80.5P200 € 217	Cod. 5.80.5P300 € 242	Cod. 5.80.5P400 € 299	Cod. 5.80.5P500 € 374	Cod. 5.80.5P600 € 486
Art. 805Q* Ganascia fissa doppia con gradino piccolo e grande Double fixed jaw with small and large step		Cod. 5.80.5Q100 € 243	Cod. 5.80.5Q200 € 302	Cod. 5.80.5Q300 € 329	Cod. 5.80.5Q400 € 402	Cod. 5.80.5Q500 € 538	Cod. 5.80.5Q600 € 672
Art. 805R* Ganascia fissa in alluminio Fixed jaw aluminium		Cod. 5.80.5R100 € 92	Cod. 5.80.5R200 € 148	Cod. 5.80.5R300 € 165	Cod. 5.80.5R400 € 227	Cod. 5.80.5R500 € 303	Cod. 5.80.5R600 € 415
Art. 805T* Ganascia fissa doppia GRIP per forti serraggi GRIP Double fixed jaw for strongest clamping		Cod. 5.80.5T100 € 163	Cod. 5.80.5T200 € 217	Cod. 5.80.5T300 € 242	Cod. 5.80.5T400 € 299	Cod. 5.80.5T500 € 374	Cod. 5.80.5T600 € 486
Art. 805DT* Ganascia fissa a coda di rondine Dove tail fixed jaw		Cod. 5.80.5DT10 € 244	Cod. 5.80.5DT20 € 302	Cod. 5.80.5DT30 € 329	Cod. 5.80.5DT40 € 403	Cod. 5.80.5DT50 € 538	Cod. 5.80.5DT60 € 672

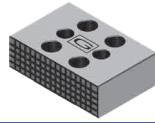
Richiedere scheda tecnica - Technical data sheet on request

* Set viti per fissaggio a richiesta - Set of fixing screws on request €12

GANASCE MOBILI PER MORSE FMS

MOVABLE JAWS FOR FMS VISES

Tipo (grandezza) / Type (size)
Art. 810*

 Ganascia mobile zigrinata da un lato
 Movable jaw one side serrated


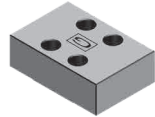
Cod.	5.81.01000	5.81.02000	5.81.03000	5.81.04000	5.81.05000	5.81.06000
€	92	148	165	227	303	415

Art. 810A*

 Ganascia mobile liscia
 Smooth movable jaw


Cod.	5.81.0A100	5.81.0A200	5.81.0A300	5.81.0A400	5.81.0A500	5.81.0A600
€	92	148	165	227	303	415

Art. 810B*

 Ganascia mobile dolce
 Soft movable jaw


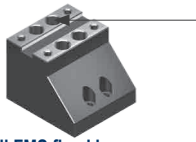
Cod.	5.81.0B100	5.81.0B200	5.81.0B300	5.81.0B400	5.81.0B500	5.81.0B600
€	92	148	165	227	303	415

Art. 810D*

 Ganascia mobile con gradino 3x5 zigrinata da un lato
 Movable jaw with 3x5 step on side serrated


Cod.	5.81.0D100	5.81.0D200	5.81.0D300	5.81.0D400	5.81.0D500	5.81.0D600
€	129	185	204	261	339	450

Art. 814*

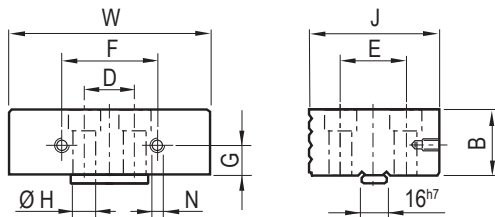
 Base mobile per ganasce fisse
 Movable base for fixed jaws


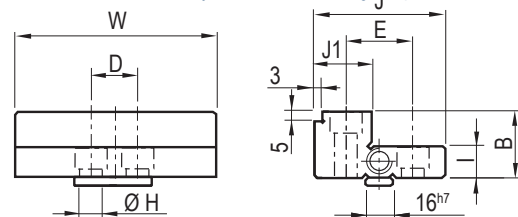
Cod.	5.81.41000	5.81.42000	5.81.43000	5.81.44000	5.81.45000	5.81.46000
€	204	225	239	330	400	439

Predisposizione per tutte le ganasce FMS fisse - Fit all FMS fixed jaws

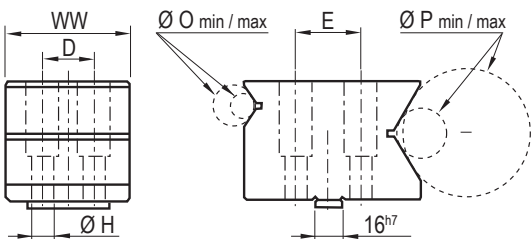
Art. 810

(Montata su Art. 860) / (Assembled on Art. 860)

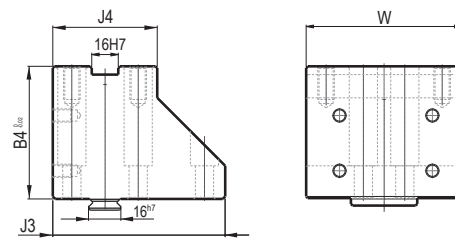

Art. 810O

 Ganascia mobile con gradino piccolo e grande
 Movable jaw with small and large step

Art. 810J

(Montata su Art. 870) / (Assembled on Art. 870)


Art. 814

Base mobile per ganasce fisse - Movable base for fixed jaws



Tipo / Type	1x200	1x300	2	3	4	5	6	Tolleranze Tolerance
W	74		94	124	144	169	189	-
WW	60		75	100	132	140	160	-
B	25		30	40	50	60	60	-0,02
B4	60		80	90	110	120	160	-0,02
D	20		25	38	44	44	54	-
E	26	32	40	50	60	68	68	-
F	40		50	65	65	65	100	-
G	10		10	15	20	25	25	-
H	9		11	13	17	17	22	-
I	12,5		15	20	25	30	30	-0,02
J	56		64	84	98	108	108	-0,02
J1	24		24	30	38	38	38	-0,02
J3	76	76	104	134	158	169	189	-
J4	55		63	83	97	106	107	-
N	M5		M6	M6	M6	M6	M6	-
Ø O	10 / 15		20 / 30	25 / 30	20 / 60	35 / 70	40 / 80	-
Ø P	10 / 25		20 / 50	40 / 100	45 / 150	63 / 200	73 / 300	-

* Set viti per fissaggio a richiesta - Fixing screws set on request €12

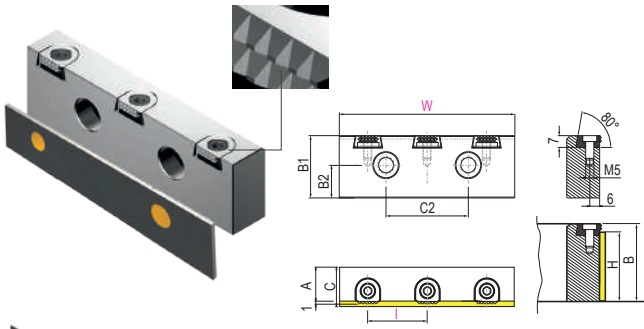
Tipo (grandezza) / Type (size)		1	2	3	4	5	6	
Art. 810E* Ganascia mobile con gradino 3x5 liscia Movable jaw with 3x5 step smooth		Cod.	5.81.0E100	5.81.0E200	5.81.0E300	5.81.0E400	5.81.0E500	5.81.0E600
		€	129	185	204	261	339	450
Art. 810J* Ganascia mobile prismatica per tondi liscia Prismatic movable jaw for round parts smooth		Cod.	5.81.0J100	5.81.0J200	5.81.0J300	5.81.0J400	5.81.0J500	5.81.0J600
		€	148	204	239	333	401	776
Art. 810K* Ganascia mobile prismatica per tondi zigrinata Prismatic movable jaw for round parts serrated		Cod.	5.81.0K100	5.81.0K200	5.81.0K300	5.81.0K400	5.81.0K500	5.81.0K600
		€	148	204	239	333	401	776
Art. 810L* Ganascia mobile con gradino Step movable jaw		Cod.	5.81.0L100	5.81.0L200	5.81.0L300	5.81.0L400	5.81.0L500	5.81.0L600
		€	129	185	204	261	339	450
Art. 810M* Ganascia mobile con gradino zigrinata da un lato Step movable jaw one side serrated		Cod.	5.81.0M100	5.81.0M200	5.81.0M300	5.81.0M400	5.81.0M500	5.81.0M600
		€	129	185	204	261	339	450
Art. 810O* Ganascia mobile con gradino piccolo e grande Movable jaw with small and large step		Cod.	5.81.0O100	5.81.0O200	5.81.0O300	5.81.0O400	5.81.0O500	5.81.0O600
		€	164	221	243	300	375	489
Art. 810P* Ganascia mobile con gradino piccolo e grande zigrin. da un lato Movable jaw with small and large step one side serrated		Cod.	5.81.0P100	5.81.0P200	5.81.0P300	5.81.0P400	5.81.0P500	5.81.0P600
		€	164	221	243	300	375	489
Art. 810R* Ganascia mobile in alluminio Movable jaw aluminium		Cod.	5.81.0R100	5.81.0R200	5.81.0R300	5.81.0R400	5.81.0R500	5.81.0R600
		€	92	148	165	227	303	415
Art. 810T* Ganascia mobile GRIP per forti serraggi GRIP movable jaw for strongest clamping		Cod.	5.81.0T100	5.81.0T200	5.81.0T300	5.81.0T400	5.81.0T500	5.81.0T600
		€	164	221	243	300	375	489
Art. 810DT Ganascia mobile a coda di rondine Dove tail movable jaw		Cod.	5.81.0DT10	5.81.0DT20	5.81.0DT30	5.81.0DT40	5.81.0DT50	5.81.0DT60
		€	244	302	329	403	538	672
Art. 810V* Ganascia mobile con segmenti oscillanti Movable jaw with floating inserts		Cod.	5.81.0V100	5.81.0V200	5.81.0V300	5.81.0V400	5.81.0V500	5.81.0V600
		€	255	255	318	361	439	503
Art. 512* Ganascia intermedia Intermediate Jaw		Cod.	5.51.21000	5.51.22000	5.51.23000	5.51.24000	5.51.25000	5.51.26000
		€	254	317	340	403	566	692
Type	1	2	3	4	5	6		
W	74	94	124	144	169	189		
J	25	35	40	40	50	50		
J1	15	15	20	20	30	30		
J2	9	9	14	14	19	19		
B / B1	12,5	15	20	25	30	30		
D	20	25	38	44	44	54		
O	34	40	60	70	81	93		

* Set viti per fissaggio a richiesta - Set of fixing screws on request €12

PIASTRE GANASCE PIANE CON INSERTI GRIP

STRAIGHT INSERT GRIP JAW PLATES

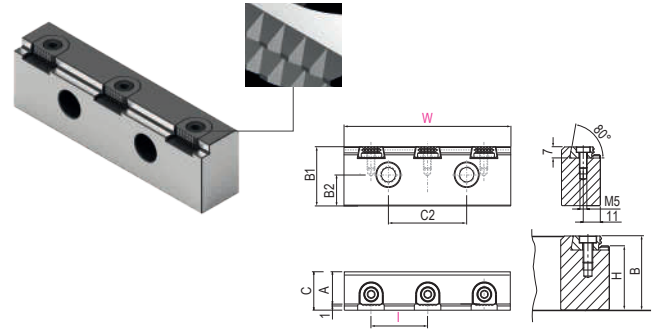
Art. 547G

 Piastra Piana con inserti GRIP
 Straight plate with GRIP inserts

Dotazione Standard - Standard Equipment

1 pc. Art.414R parallela magnetica - 1 pc. Art.414R magnetic parallel

Type	1	2	3	4	5	6
W	74	94	124	144	169	189
I	26	33	23,5	29,5	23	27
C	22,7	22,7	22,7	22,7	22,7	22,7
C2	40	50	65	65	65	100
B	25	30	40	50	60	60
B1	25	30	40	50	60	60
B2	10	10	15	20	25	25
A	20	20	20	20	20	20
H	20	25	35	45	55	55
Cod.	5.54.7G100	5.54.7G200	5.54.7G300	5.54.7G400	5.54.7G500	5.54.7G600
€	139	150	194	217	297	387

Art. 547K

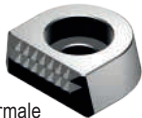
 Piastra Piana a gardino integrale con inserti GRIP
 Straight integral step plate with GRIP inserts


Type	1	2	3	4	5	6
W	74	94	124	144	169	189
I	26	33	23,5	29,5	23	27
C	25	25	25	25	25	25
C2	40	50	65	65	65	10
B	25	30	40	50	60	60
B1	25	30	40	50	60	60
B2	10	10	15	20	25	25
A	20	20	20	20	20	20
H	20	25	35	45	55	55
Cod.	5.54.7K100	5.54.7K200	5.54.7K300	5.54.7K400	5.54.7K500	5.54.7K600
€	139	150	194	217	297	387

INSERTI GRIP PER MORSE FMS

INSERT GRIP JAW PLATES FOR FMS VISES

Art. 220 G01

 Per materiali di durezza normale
 For standard workpieces hardness clamping


Cod. 4.22.01000 / G01

€ 19

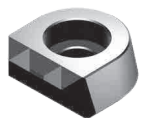
Art. 220 G02

 Per materiali di notevole durezza.
 For hardened workpieces clamping


Cod. 4.22.01000 / G02

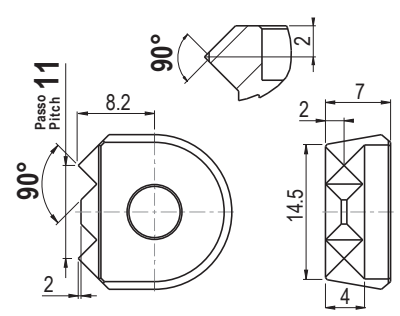
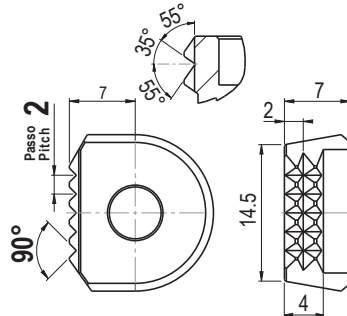
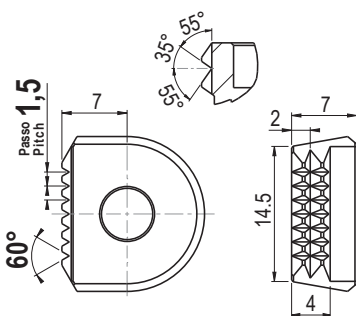
€ 19

Art. 220 G11

 Per materiali teneri
 For soft material clamping


Cod. 4.22.01000 / G11

€ 19



Tipo / Type	1	2	3	4	5	6
 Art.547G - Art.547K	 3 pcs each	 3 pcs each	 5 pcs each	 5 pcs each	 7 pcs each	 7 pcs each
Viti a testa bassa M5 x 10mm Low head screws M5 x 10mm	 3 pcs each	 3 pcs each	 5 pcs each	 5 pcs each	 7 pcs each	 7 pcs each

PIASTRE PER MORSE FMS

PLATES FOR FMS VISES

Tipo (grandezza) / Type (size)	1	2	3	4	5	6
Art. 823 Piastra intermedia per Art. 855 Middle plate for Art. 855						
	Cod.	5.82.31000	5.82.32000	5.82.33000	5.82.34000	5.82.35000
€	45	53	68	80	93	129
Art. 823B Piastra intermedia per Art. 800 Middle plate for Art. 800						
	Cod.	5.82.3B100	5.82.3B200	5.82.3B300	5.82.3B400	5.82.3B500
€	45	53	68	80	93	129
Art. 825 Piastra di contenimento vite per morse FMS per Art. 855 Screw holding plate for FMS vise for Art. 855						
	Cod.	5.82.51000	5.82.52000	5.82.53000	5.82.54000	5.82.55000
€	78	92	115	136	162	225
Art. 825B Piastra di contenimento vite per morse FMS per Art. 800 Screw holding plate for FMS vise for Art. 800						
	Cod.	5.82.5B100	5.82.5B200	5.82.5B300	5.82.5B400	5.82.5B500
€	78	92	115	136	162	225
Art. 825C Piastra di contenimento vite per morse FMS per Art. 855W Screw holding plate for FMS vise for Art. 855W						
	Cod.	5.82.5C100	5.82.5C200	5.82.5C300	5.82.5C400	5.82.5C500
€	78	92	115	136	162	225
Art. 831 Piastra di collegamento per 2 morse FMS montate verticalmente dorso a dorso o fianco a fianco Connecting plate for 2 FMS vises vertically mounted back-to-back or side by side						
	Cod.	5.83.11000	5.83.12000	5.83.13000	5.83.14000	5.83.15000
€	181	230	254	434	528	684
Art. 832 Piastra di collegamento per 4 morse FMS montate verticalmente dorso a dorso o fianco a fianco Connecting plate for 4 FMS vises vertically mounted back-to-back or side by side						
	Cod.	5.83.21000	5.83.22000	5.83.23000	5.83.24000	5.83.25000
€	354	461	580	867	1.050	1.362
Art. 833 Piastra di collegamento personalizzata per 2 morse FMS Connecting plate for 2 FMS vises tailor made						
	Cod.	5.83.31000	5.83.32000	5.83.33000	5.83.34000	5.83.35000
€	215	278	359	521	632	818
Art. 834 Piastra di collegamento personalizzata per 4 morse FMS Connecting plate for 4 FMS vises tailor made						
	Cod.	5.83.41000	5.83.42000	5.83.43000	5.83.44000	5.83.45000
€	424	552	713	1.037	1.259	1.633

PIASTRE BASE PER MORSE FMS

BASE PLATES FOR FMS VISES

Tipo (grandezza) / Type (size)	1	2	3	4	5	6	7
Art. 827A							
Piastra base personalizzata per una o più morse <i>Bussola di centraggio Art. 852 compresa</i> Tailor made head plate for one or more vises <i>Centering bushing Art. 852 included</i>							
H	300	350	400	450	500	630	800
C	33	33	38	38	38	38	38
Kg	21,5	29,5	43,5	55	70	112	181
Cod.	5.82.7A100	5.82.7A200	5.82.7A300	5.82.7A400	5.82.7A500	5.82.7A600	5.82.7A700
€	1.111	1.228	1.636	1.870	2.220	2.804	3.154

Art. 828A							
Piastra base personalizzata per cubo morsa <i>bussola di centraggio Art. 852 compresa</i> Tailor made head plate for vise tower <i>Centering bushing Art. 852 included</i>							
H	300	350	400	450	500	630	800
C	33	33	38	38	38	38	38
Kg	22	30	44,5	56,5	71	113	182
Cod.	5.82.8A100	5.82.8A200	5.82.8A300	5.82.8A400	5.82.8A500	5.82.8A600	5.82.8A700
€	1.076	1.146	1.262	1.473	1.780	2.273	2.519

Tipo (grandezza) / Type (size)	1	2	3	4	5	6
Art. 835						
Distanziale quadrato per 4 morse FMS <i>Square spacer for 4 FMS vises</i>						
A	75	95	125	145	170	190
Cod.	5.83.51000	5.83.52000	5.83.53000	5.83.54000	5.83.55000	5.83.56000
€	258	270	285	317	396	482

Art. 836						
Supporto quadrato per 4 morse FMS <i>Square support for 4 FMS vises</i>						
A	75	95	125	145	170	190
B	200	300	400	500	600	800
Cod.	5.83.61000	5.83.62000	5.83.63000	5.83.64000	5.83.65000	5.83.66000
€	1.302	1.488	1.766	2.227	3.060	4.449

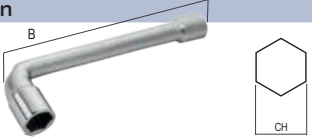
Art. 837						
Supporto esagonale per 6 morse FMS <i>Exagon support for 6 FMS vises</i>						
B	200	300	400	500	600	800
C	132	170	220	255	300	335
D	76 ~	98 ~	127 ~	147 ~	173 ~	193 ~
Cod.	5.83.71000	5.83.72000	5.83.73000	5.83.74000	5.83.75000	5.83.76000
€	2.544	2.969	3.523	4.449	6.089	8.890

Art. 838						
Distanziale esagonale per 6 morse FMS <i>Exagon spacer for 6 FMS vises</i>						
C	132	170	220	255	300	335
D	76 ~	98 ~	127 ~	147 ~	173 ~	193 ~
Cod.	5.83.81000	5.83.82000	5.83.83000	5.83.84000	5.83.85000	5.83.86000
€	509	537	561	618	786	952

Art. 852						
Bussola di centraggio per piastra base <i>Centering bushing for base plate</i>						
Cod.	5.85.21000	5.85.22000	5.85.23000	5.85.24000	5.85.25000	5.85.26000
€	80	80	80	96	96	96

Art. 853						
Centraggio orizzontale per cubo FMS <i>Horizontal centering for FMS cube</i>						
Cod.	5.85.31000	5.85.32000	5.85.33000	5.85.34000	5.85.35000	5.85.36000
€	493	522	537	592	773	840

Tipo (grandezza) / Type (size)	1	2	3	4	5	6
Art. 825A Ghiera per morse e cubi FMS Nut for FMS vises and cubes 	Cod. 5.82.5A100 € 39	Cod. 5.82.5A200 € 44	Cod. 5.82.5A300 € 52	Cod. 5.82.5A400 € 60	Cod. 5.82.5A500 € 68	Cod. 5.82.5A600 € 81
Art. 850B Riparo lato vite Protection side screw 	Cod. 5.85.0B100 € 25	Cod. 5.85.0B200 € 31	Cod. 5.85.0B300 € 34	Cod. 5.85.0B400 € 36	Cod. 5.85.0B500 € 37	Cod. 5.85.0B600 € 39
Art. 850C Riparo Protection 	Cod. 5.85.0C100 € 28	Cod. 5.85.0C200 € 33	Cod. 5.85.0C300 € 36	Cod. 5.85.0C400 € 41	Cod. 5.85.0C500 € 46	Cod. 5.85.0C600 € 49
Art. 850P Dispositivo "Terza Mano" "Third Hand" device 	Cod. 5.85.0P100 € 22	Cod. 5.85.0P200 € 22	Cod. 5.85.0P300 € 27	Cod. 5.85.0P400 € 27	Cod. 5.85.0P500 € 31	Cod. 5.85.0P600 € 31
Art. 850E Bussola esagonale per innesto automatico Hexagonal bushing for automatic connection 	CH 12 / 22 Cod. 5.85.0E100 € 39	CH 14 / 24 Cod. 5.85.0E200 € 45	CH 19 / 30 Cod. 5.85.0E300 € 51	CH 19 / 30 Cod. 5.85.0E400 € 56	CH 27 / 40 Cod. 5.85.0E500 € 64	CH 27 / 40 Cod. 5.85.0E600 € 72
Art. 850T Distanziale per morse solo autocentrante Spacer for Self-centering vise only 	Cod. 5.85.0T100 € 10	Cod. 5.85.0T200 € 10	Cod. 5.85.0T300 € 13	Cod. 5.85.0T400 € 13	Cod. 5.85.0T500 € 16	Cod. 5.85.0T600 € 16
Art. 850H Chiave esagonale per morse FMS e cubo Hexagonal wrench for FMS vise and cube 	Cod. 5.85.0H100 € 39	Cod. 5.85.0H300 € 52		Cod. 5.85.0H500 € 67		
Art. 801S Piastrina di collegamento slitte morse Slides vise connecting plate 	Cod. 5.80.1S100 € 20	Cod. 5.80.1S200 € 20	Cod. 5.80.1S300 € 20	Cod. 5.80.1S400 € 20	Cod. 5.80.1S500 € 20	Cod. 5.80.1S600 € 20

Dimensioni / Dimension	CH		CH		CH		CH		CH		CH	
	B	CH	B	CH	B	CH	B	CH	B	CH	B	CH
Art.375 Chiave a pipa Box wrench 	16	250	16	250	19	250	19	250	19	250	19	250
	Cod. 4.37.516250	Cod. 4.37.516250	Cod. 4.37.519250	Cod. 4.37.519250	Cod. 4.37.519250	Cod. 4.37.519250	Cod. 4.37.519250	Cod. 4.37.519250	Cod. 4.37.519250	Cod. 4.37.519250	Cod. 4.37.519250	Cod. 4.37.519250
	€ 31	€ 31	€ 31	€ 31	€ 31	€ 31	€ 31	€ 31	€ 31	€ 31	€ 31	€ 31

RICAMBI PER MORSE Art.800 - SPARE PARTS FOR VISES Art.800

Art. 800E Guarnizione per slitta integrale O ring for solid slide 	Cod. 5.80.0E100 € 10	Cod. 5.80.0E200 € 10	Cod. 5.80.0E300 € 10	Cod. 5.80.0E400 € 10	Cod. 5.80.0E500 € 10	Cod. 5.80.0E600 € 10
Art. 801G Grano di bloccaggio protezione centrale Setscrew for clamping central protection 	Cod. 5.80.1G100 € 10	Cod. 5.80.1G200 € 10	Cod. 5.80.1G300 € 10	Cod. 5.80.1G400 € 10	Cod. 5.80.1G500 € 10	Cod. 5.80.1G600 € 10
Art. 800I Vite tcei per ganasce Hex.socket head screw for jaws 	Cod. 5.80.0I100	Cod. 5.80.0I200	Cod. 5.80.0I300	Cod. 5.80.0I400	Cod. 5.80.0I500	Cod. 5.80.0I600
Art. 801H Vite tcei per ganasce a gradino Hex.socket head screw for step jaws 	Cod. 5.80.1H100	Cod. 5.80.1H200	Cod. 5.80.1H300	Cod. 5.80.1H400	Cod. 5.80.1H500	Cod. 5.80.1H600
Art. 801I Vite tcei per piastra di contenimento Hex.socket head screw for screw holding plate 	Cod. 5.80.1I100 € 10	Cod. 5.80.1I200 € 10	Cod. 5.80.1I300 € 10	Cod. 5.80.1I400 € 10	Cod. 5.80.1I500 € 10	Cod. 5.80.1I600 € 10

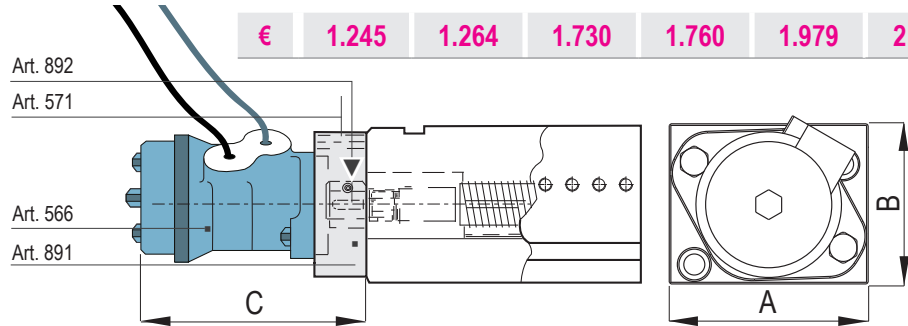
SERVOCOMANDI OLEODINAMICI PER MOTORI IDRAULICI

ELECTRO-HYDRAULIC POWER PACK FOR HYDRAULIC MOTORS

Tipo (grandezza) / Type (size)	1	2	3	4	5	6	
Art. 566 Motore idraulico / Hydraulic motor	OMM32	OMP80	OMR200	OMR200	OMR200	OMR200	
	bar		140				
Art.890	A mm	75	130	123	145	168	188
	B mm	70	100	104	119	139	159
	C mm	175	234	244	246	261	261
	Cod.	5.89.01000	5.89.02000	5.89.03000	5.89.04000	5.89.05000	5.89.06000
	€	1.245	1.264	1.730	1.760	1.979	2.007

Art. 566 + Art. 571 + Art. 891 + Art. 892

Motore idraulico completo di piastra d' interfaccia, boccola e fine corsa elettronico regolabile
 Hydraulic motor complete with connecting plate, bushing and adjustable electronic proximity switch



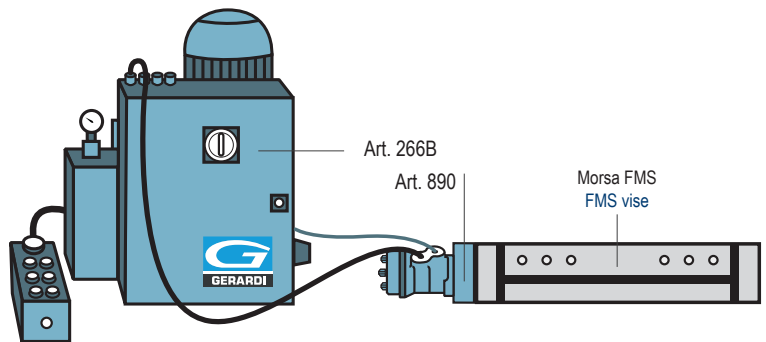
Art. 891	Cod.	5.89.11000	5.89.12000	5.89.13000	5.89.14000	5.89.15000	5.89.16000
Piastra attacco motore idraulico / Hydraulic motor mounting plate	€	263	297	374	407	615	640
Art. 892	Cod.	5.89.21000	5.89.22000	5.89.23000	5.89.24000	5.89.25000	5.89.26000
Boccola di trascinamento vite motore / Drive bushing screw-motor	€	167	167	191	191	221	221
Art. 566	Cod.	5.56.61000	5.56.62000	5.56.63000	5.56.63000	5.56.63000	5.56.63000
Motore Idraulico / Hydraulic motor	€	713	713	1.126	1.126	1.126	1.126
Art. 571	Cod.	5.57.11000	5.57.12000	5.57.13000	5.57.14000	5.57.15000	5.57.16000
Fine corsa elettronico / Electronic proximity switch	€	221	221	247	247	247	247

Tipo (grandezza) / Type (size)	1	2	3	4	5	6	
Art.890K/1	Passo vite / screw pitch mm	2	2	2	2	3	3
	bar	130	100	100	100	120	120
	l/min	5	10	20	20	20	20
	Cod.	5.89.0K101	5.89.0K201	5.89.0K301	5.89.0K401	5.89.0K501	5.89.0K601
Art. 266B + Art. 890	€	8.781	8.804	9.269	9.296	9.516	9.543

Kit per automazione morse FMS
 Kit for FMS vises automation.

DATI TECNICI:
 IDROMOTORE: Art.566
 Motore elettrico Kw 5.5
 Portata Min. 40 litri al minuto
 Velocità apertura-chiusura morse da calcolarsi in base al digramma idromotore (vedi pag. 5.65)
 Per il diagramma forza di serraggio vedi pag. 5.74
 Pressione massima di esercizio: 140 bar

TECHNICAL DATA:
 HYDRAULIC MOTOR Art.566
 Electric motor kW 5.5
 Oil pumps: 40l/min
 Opening and closing speed of vise to be calculated from hydraulic motor diagram at page 5.65
For clamping forces diagram see pag. 5.75
Max operating pressure: 140 bar



COMPOSIZIONE COMPLETA DI:

- N° 1 servocomando Art. 890
- N° 1 centralina elettroidraulica Art. 266B/1
- Comando manuale elettrico da pulsantiera con chiusura ed apertura indipendente, singola o simultanea
- Regolazione forza di bloccaggio desiderata
- Fine corsa elettronico regolabile

COMPOSITION COMPLETE OF:

- N° 1 hydraulic servo unit Art. 890
- N° 1 electro-hydraulic power pack Art. 266B/1
- Electrically controlled by manual switch board
- Adjustable clamping force as required
- Adjustable electronic proximity switch

Tubi e cavi di collegamento elettrici ed idraulici con massima lunghezza 1600 mm / Hydraulic pipes and electrical cables with max length 1600 mm

SERVOCOMANDI OLEODINAMICI PER MOTORI IDRAULICI

ELECTRO-HYDRAULIC POWER PACK FOR HYDRAULIC MOTORS

Tipo (grandezza) / Type (size)	1	2	3	4	5	6
Art.890K/2						
Passo vite / screw pitch mm	2	2	2	2	3	3
bar	130	100	100	100	120	120
l/min	10	20	40	40	40	40
Cod.	5.89.0K102	5.89.0K202	5.89.0K302	5.89.0K402	5.89.0K502	5.89.0K602
€	10.024	10.065	10.995	11.053	11.492	11.547

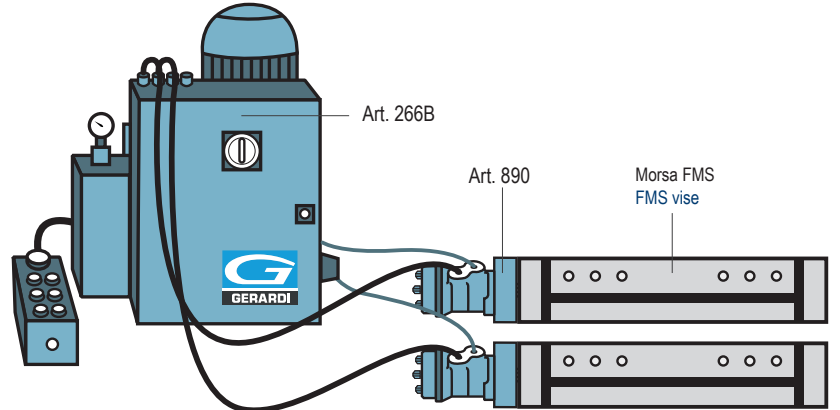
Kit per automazione morse FMS
 Kit for FMS vises automation.

DATI TECNICI:

IDROMOTORE: Art.566
 Motore elettrico Kw 5.5
 Portata Min. 40 litri al minuto
 Velocità apertura-chiusura morsa da calcolarsi in base al diagramma idromotore (vedi pag. 5.65)
 Per il diagramma forza di serraggio vedi pag. 5.74
 Pressione massima di esercizio: 140 bar

TECHNICAL DATA:

HYDRAULIC MOTOR Art.566
 Electric motor kW 5,5
 Oil pumps: 40l/min
 Opening and closing speed of vise to be calculated from hydraulic motor diagram at page 5.65
For clamping forces diagram see pag. 5.75
Max operating pressure: 140 bar



COMPOSIZIONE COMPLETA DI:

- N° 2 servocomandi Art. 89
- N° 1 centralina elettroidraulica Art. 266B/1
- Comando manuale elettrico da pulsantiera con chiusura ed apertura indipendente, singola o simultanea
- Regolazione forza di bloccaggio desiderata
- Fine corsa elettronico regolabile

COMPOSITION COMPLETE OF:

- N° 2 hydraulic servo units Art. 890
- N° 1 electro-hydraulic power pack Art. 266B/1
- Electrically controlled by manual switch board
- Adjustable clamping force as required
- Adjustable electronic proximity switch

Tubi e cavi di collegamento elettrici ed idraulici con massima lunghezza 1600 mm / Hydraulic pipes and electrical cables with max length 1600 mm

Tipo (grandezza) / Type (size)	1	2	3	4	5	6
Art.890K/3						
Passo vite / screw pitch mm	2	2	2	2	3	3
bar	130	100	100	100	120	120
l/min	15	30	60	60	60	60
Cod.	5.89.0K103	5.89.0K203	5.89.0K303	5.89.0K403	5.89.0K503	5.89.0K603
€	11.267	11.326	12.723	12.812	13.468	13.550

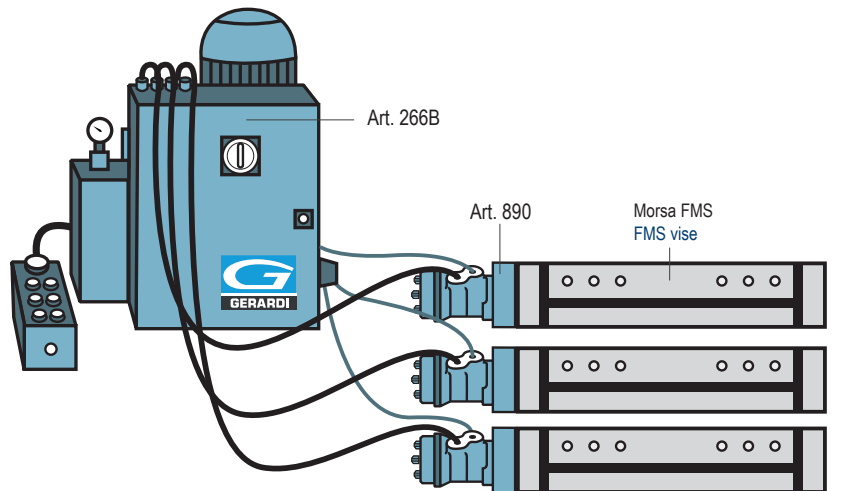
Kit per automazione morse FMS
 Kit for FMS vises automation.

DATI TECNICI:

IDROMOTORE: Art.566
 Motore elettrico Kw 5.5
 Portata Min. 40 litri al minuto
 Velocità apertura-chiusura morsa da calcolarsi in base al diagramma idromotore (vedi pag. 5.65)
 Per il diagramma forza di serraggio vedi pag. 5.74
 Pressione massima di esercizio: 140 bar

TECHNICAL DATA:

HYDRAULIC MOTOR Art.566
 Electric motor kW 5,5
 Oil pumps: 40l/min
 Opening and closing speed of vise to be calculated from hydraulic motor diagram at page 5.65
For clamping forces diagram see pag. 5.75
Max operating pressure: 140 bar



COMPOSIZIONE COMPLETA DI:

- N° 3 servocomandi Art. 89
- N° 1 centralina elettroidraulica Art. 266B/1
- Comando manuale elettrico da pulsantiera con chiusura ed apertura indipendente, singola o simultanea
- Regolazione forza di bloccaggio desiderata
- Fine corsa elettronico regolabile

COMPOSITION COMPLETE OF:

- N° 3 hydraulic servo units Art. 890
- N° 1 electro-hydraulic power pack Art. 266B/1
- Electrically controlled by manual switch board
- Adjustable clamping force as required
- Adjustable electronic proximity switch

Tubi e cavi di collegamento elettrici ed idraulici con massima lunghezza 1600 mm / Hydraulic pipes and electrical cables with max length 1600 mm

SERVOCOMANDI OLEODINAMICI PER MOTORI IDRAULICI

ELECTRO-HYDRAULIC POWER PACK FOR HYDRAULIC MOTORS

Tipo (grandezza) / Type (size)	1	2	3	4	5	6
Passo vite / screw pitch mm	2	2	2	2	3	3
bar	130	100	100	100	120	120
l/min	20	40	80	80	80	80
Cod.	5.89.0K104	5.89.0K204	5.89.0K304	5.89.0K404	5.89.0K504	5.89.0K604
€	12.509	12.589	14.450	14.568	15.444	15.555

Art.890K/4

Art. 266B + 4 Art. 890

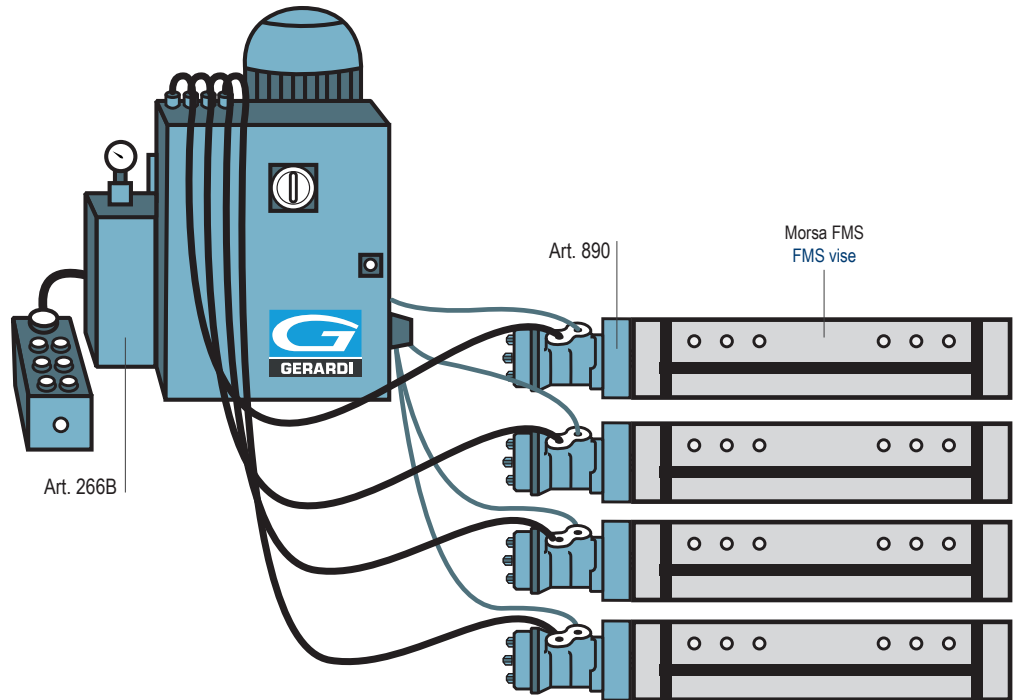
Kit per automazione morse FMS
 Kit for FMS vises automation.

DATI TECNICI:

IDROMOTORE: Art.566
 Motore elettrico Kw 5.5
 Portata Min. 40 litri al minuto
 Velocità apertura-chiusura morsa da calcolarsi in base al diagramma idromotore (vedi pag. 5.65)
 Per il diagramma forza di serraggio vedi pag. 5.74
 Pressione massima di esercizio: 140 bar

TECHNICAL DATA:

HYDRAULIC MOTOR Art.566
 Electric motor kW 5,5
 Oil pumps: 40l/min
 Opening and closing speed of vise to be calculated from hydraulic motor diagram at page 5.65
 For clamping forces diagram see pag. 5.75
 Max operating pressure: 140 bar



COMPOSIZIONE COMPLETA DI:

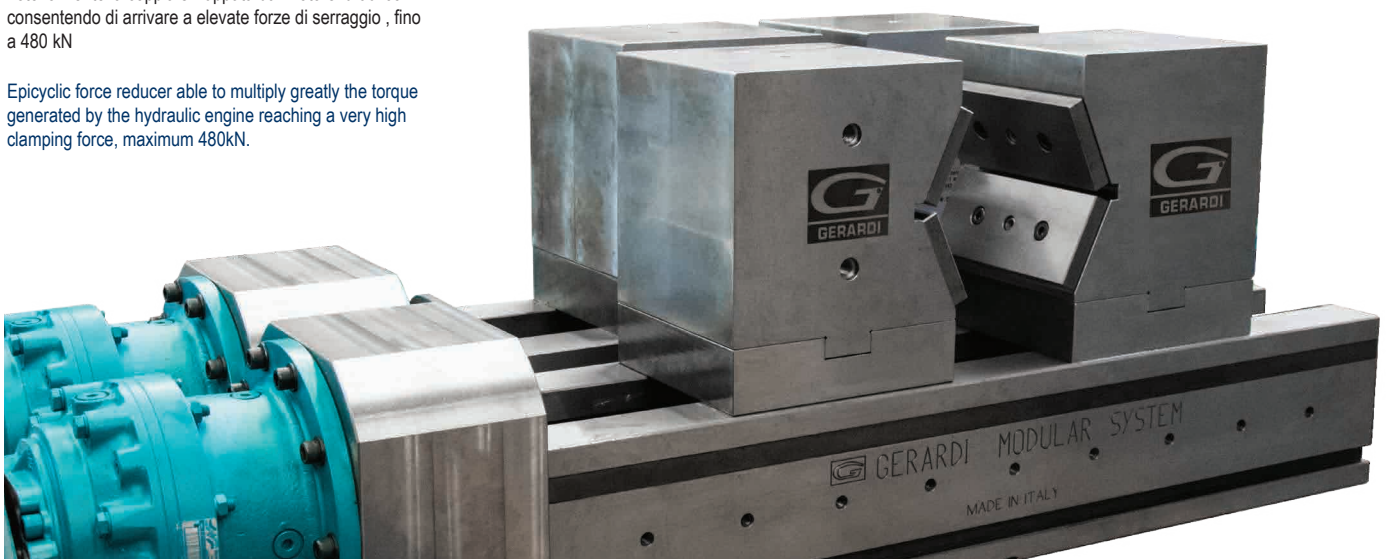
- N° 3 servocomandi Art. 89
- N° 1 centralina elettroidraulica Art. 266B/1
- Comando manuale elettrico da pulsantiera con chiusura ed apertura indipendente, singola o simultanea
- Regolazione forza di bloccaggio desiderata
- Fine corsa elettronico regolabile

COMPOSITION COMPLETE OF:

- N° 3 hydraulic servo units Art. 890
- N° 1 electro-hydraulic power pack Art. 266B/1
- Electrically controlled by manual switch board
- Adjustable clamping force as required
- Adjustable electronic proximity switch

Riduttore epicicloidale il quale consente di moltiplicare notevolmente la coppia sviluppata dal motore idraulico consentendo di arrivare a elevate forze di serraggio, fino a 480 kN

Epicyclic force reducer able to multiply greatly the torque generated by the hydraulic engine reaching a very high clamping force, maximum 480kN.

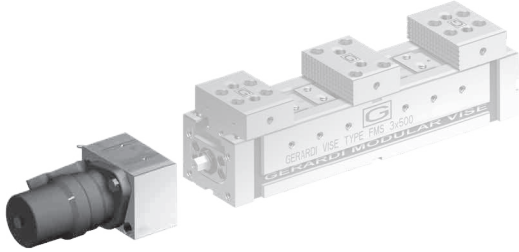


Tubi e cavi di collegamento elettrici ed idraulici con massima lunghezza 1600 mm / Hydraulic pipes and electrical cables with max length 1600 mm

DIAGRAMMI COPPIE MOTORI IDRAULICI HYDRAULIC MOTOR TORQUE DIAGRAMS

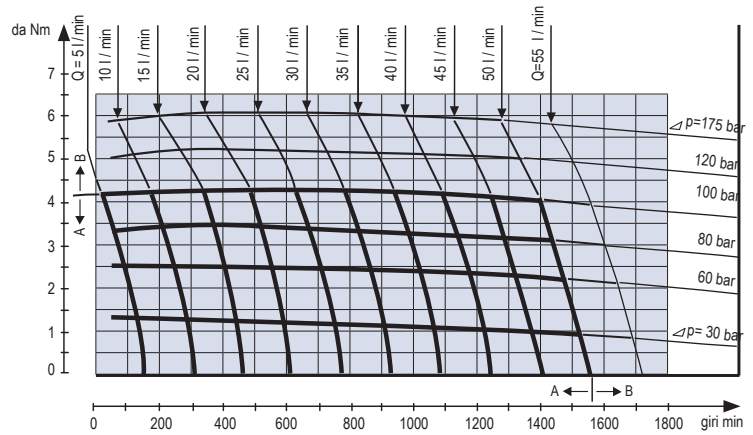
Art.890

(Art.890) Motore idraulico
(Art.890) Hydraulic motor



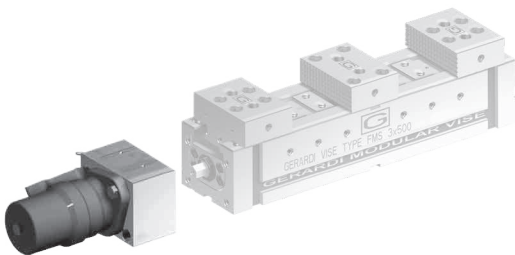
OMR 32

Morse FMS tipo 1 / Type 1 FMS vises



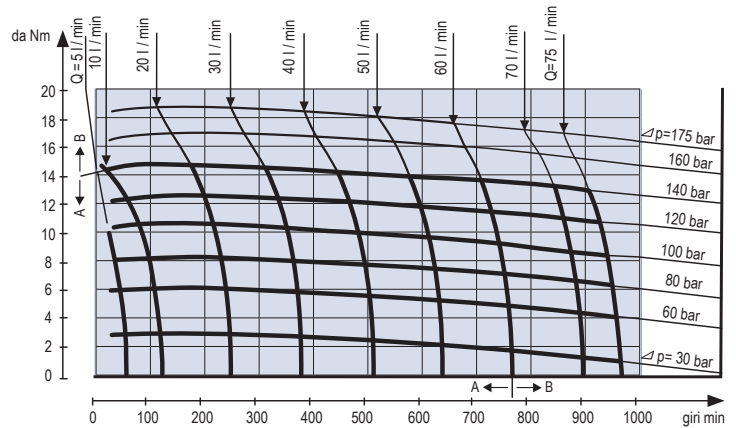
Art.890

(Art.890) Motore idraulico
(Art.890) Hydraulic motor



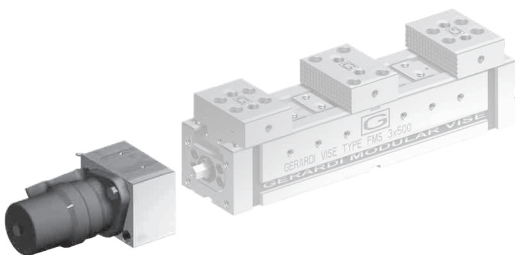
OMR 80

Morse FMS tipo 2 / Type 2 FMS vises



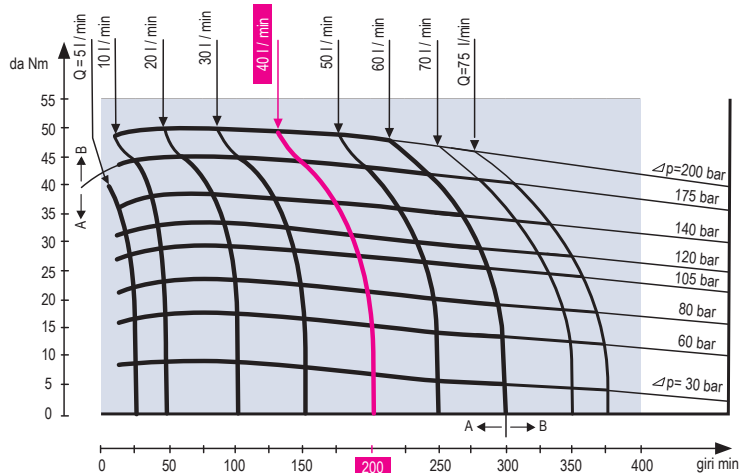
Art.890

(Art.890) Motore idraulico
(Art.890) Hydraulic motor



OMR 200

Morse FMS tipo 3 - 4 - 5 - 6 Type 3 - 4 - 5 - 6 FMS vises



VELOCITA' = Passo vite x giri/min (dati dalla portata di olio in l/min) - 25% circa per attriti e resistenze varie.

Esempio: Vite passo 2 mm; **Giri 200/min** (ipotizzando una portata olio di **40 l/min**); $V = 2 \times 200 = 400 - 25\% = 300$ mm/min per una morsa.

Per più morse dividere la velocità ottenuta per il numero delle morse impiegate.

SPEED = Screw pitch x RPM (that you get from oil pump of 40 l/min) about - 25% for friction and other resistance.

Example: Screw pitch 2mm; **RPM 200/min** (taking in consideration oil pump of **40 l/min**); $V = 2 \times 200 = 400 - 25\% = 300$ mm/min for one vise.

For more vises divide the speed obtained by the number of vises used.

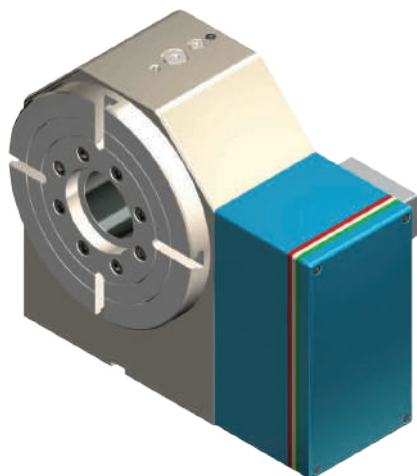
DIVISORE AUTOMATICO DPG 250

AUTOMATIC DIVIDING HEAD DPG 250

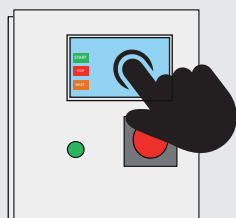
Divisore automatico
Automatic dividing head

Dati tecnici
Technical Data

DPG 250



Diametro del divisore Dividing head diameter		250 mm
Diametro del foro passante Clearance hole diameter		70,5 mm
Altezza punta Center height		200 mm
Dimensione della scanalatura a T T-Slot width		12 mm
Sistema di bloccaggio Clamping system		Idrraulico Hydraulic
Forza frenante Clamping torque		3000 Nm
Motore Servo motor		3000 Max.g/min
Minimo incremento Minimum increment		0,002
Velocità di rotazione Rotation speed		33,3 Giri/min
Rapporti vite/corona Speed reduction ratio (screw/gear)		1/90
Rapporti vite/motore Speed reduction ratio (screw/motor)		1/180
Precisione Indexing accuracy		±10 Sec.
Ripetibilità Repeatability		4 Sec.
Max. carico di lavoro sul divisore Max. allowable work weight on the dividing head	Verticale Vertical	Kg.550
	Orizzontale Horizontal	Kg.1500
Max. carico di spinta applicabile sul divisore Max. allowable tool load on the dividing head		N 25000
		FxL Nm 1000
		FxL Nm 2200
Rapporti vite/corona Speed reduction ratio (screw/gear)	Verticale Vertical	10,5 Kg. m ²
Coppia in lavoro Driving torque	Corona dentata Worm gear	698 Nm
Kg		110
Cod.		8.DP.G2500
€		22.533



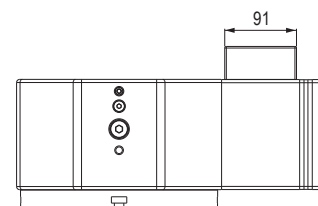
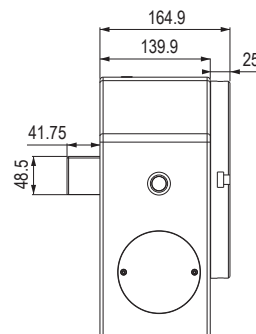
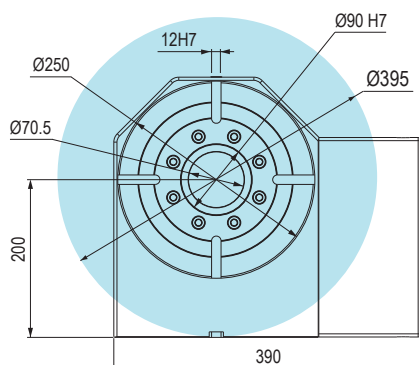
PROGRAMMAZIONE TOUCH SCREEN
FACILE ED INTUITIVA O TRAMITE COLLEGAMENTO DIRETTO AL CNC

EASY AND INTUITIVE TOUCH SCREEN
PROGRAMMING OR THROUGH DIRECT CONNECTION TO THE CNC

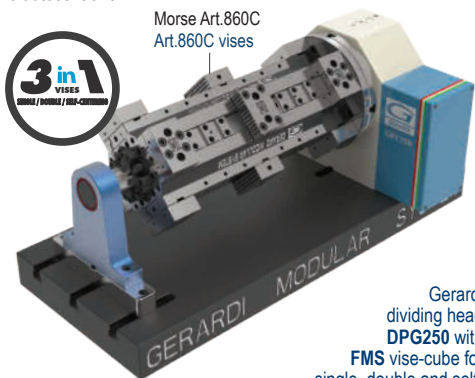
- Installazione semplice (alimentazione 220V)
- Corona in bronzo speciale
- Controsupporto semplice
- Vite senza fine in acciaio temprato e rettificato
- Vite e corona in bagno d'olio
- Cuscinetti a vite precaricati
- Cuscinetto anteriore a rulli incrociati sovradimensionato
- Recupero gioco con avvicinamento assiale
- Completa tenuta stagna ai liquidi con possibilità di pressurizzazione
- Possibilità di montare motori di tutte le marche
- Dimensioni esterne contenute
- Finestra di controlli liquidi e condensa
- Lavorazione in posizionamento a 360°

- Easy installation (220V)
- Special bronze crown
- Simple tailstock
- Worm screw in hardened ground steel
- Bath lubrication Screw and Crown
- Pre-loaded screw bearings
- Over-dimensioned crossed-roller front bearing
- Play recover with axial approach
- Watertight seal with possibility of pressurization
- Possibility to mount motors of all brands
- Reduced external dimensions
- Condensation and liquid control window
- 360° work positioning

DPG 250



Tipo (grandezza) / Type (size)

 Divisore Gerardi DPG250
 con cubo-morsa FMS
 per serraggi singoli, doppi
 o autocentranti

 Morse Art.860C
 Art.860C vises

 Gerardi
 dividing head
DPG250 with
FMS vise-cube for
 single, double and self-
 centering clamping

kN	1		2				3				
	25 kN		25 kN				30 kN				
D	200	300	300	400	500	600	400	500	600	700	800
G1	120		175				210				
W	74		94				124				
Cod.	5.DP.G25000	5.DP.G25010	5.DP.G25020	5.DP.G25030	5.DP.G25040	5.DP.G25050	5.DP.G25060	5.DP.G25070	5.DP.G25080	5.DP.G25090	5.DP.G25011
€	34.581	36.490	39.892	37.381	37.978	39.349	38.692	39.945	41.316	40.358	43.998

 Nel caso si disponga di un proprio divisore, il prezzo dell'attrezzatura potrebbe subire variazioni
 In case you already have a divider, the price may be revised

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !
Art. 99A

 Supporto
 Support


Cod. 5.99.A1000

 € **717**
Art. 99B

 Perno di centraggio completo
 di sistema d'allineamento
 Horizontal centering pin with alignment system


Cod. 5.99.B1000 5.99.B2000 5.99.B3000

 € **956** **993** **1.005**
Art. 99H

 Distanziale per supporto
 Spacer support

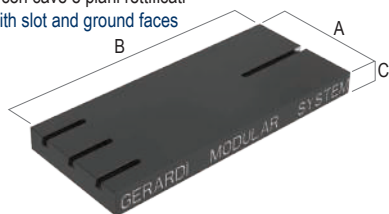

Cod. 5.99.H1000

 € **122**
Art. 62K
DPG 250

 Piastra di interfaccia per cubo FMS
 completa di sistema d'allineamento
 Connecting plate with alignment system for FMS


Cod. 5.62.K801A5 5.62.K801A6 5.62.K801A7

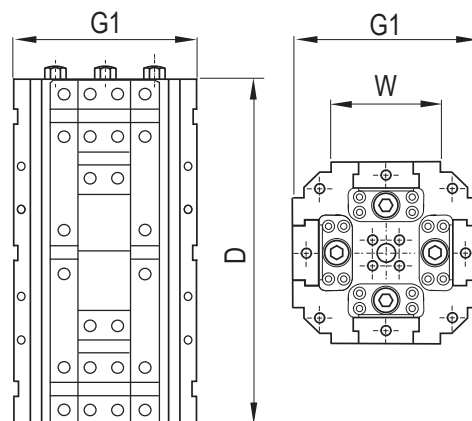
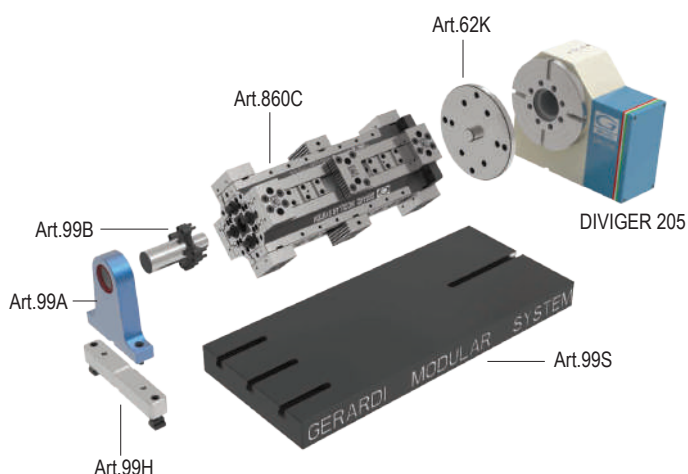
 € **1.164** **1.494** **1.494**
Art. 99S

 Piastra base con cave e piani rettificati
 Base plate with slot and ground faces


Dimensioni B mm Dimension B mm	A	C	Kg	Cod.	€
650	400	50	102	7.99.S065S	2.148
950	400	50	149	7.99.S095S	2.506
1250	400	50	195	7.99.S125S	2.863

Cave o fori calibrati su richiesta - Slot or calibrated holes on request

Disponibili quote "B" a step di 50mm - Available dimension "B" in steps of 50mm



DIVISORE MECCANICO DIVIGER 205


MECHANICAL DIVIDING HEAD DIVIGER 205

Divisore automatico
Automatic dividing head

Dati tecnici
Technical Data

DIVIGER 205

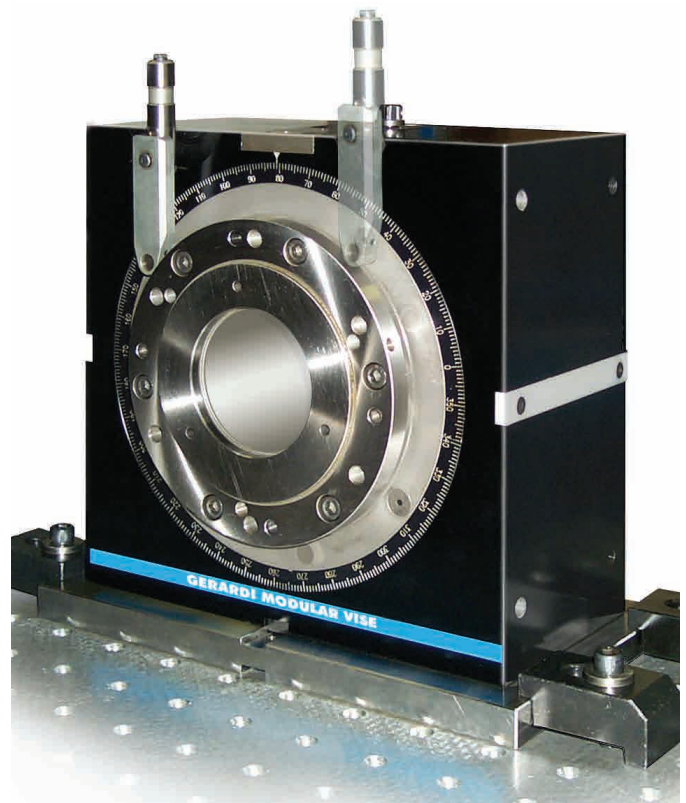


Diametro del divisore Dividing head diameter	220 mm
Diametro del foro passante Clearance hole diameter	85 mm
Altezza centrale Center height	200 mm
Dimensione della scanalatura a T T-Slot width	-
Sistema di bloccaggio Clamping system	Meccanico Mechanical
Minimo incremento Minimum increment	1°
Precisione Indexing accuracy	±10 Sec.
Coppia in lavoro Driving torque	 3000 Nm
Kg	93
Cod.	7.66.73000
€	13.056

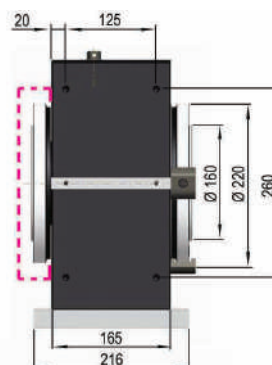
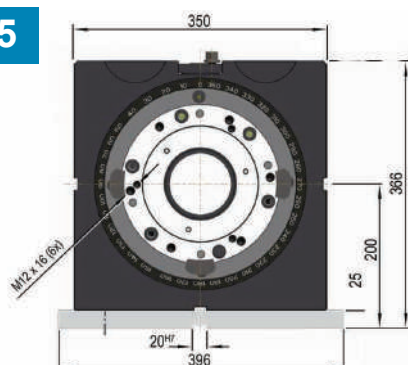
DIVISORE MECCANICO, SENZA CAVI O IDRAULICA,
PERMACCHINE A CNC

MECHANICAL DIVIDING HEAD, WITHOUT ELECTRICAL CABLES
OR HYDRAULIC, FOR CNC MILLING MACHINE

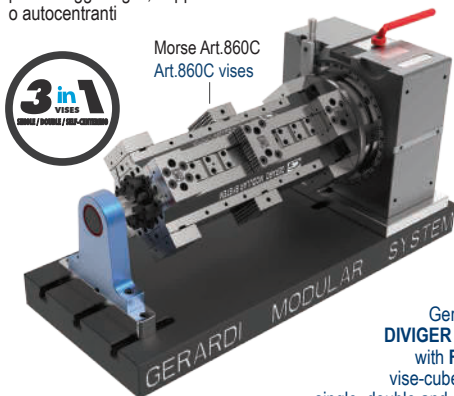
- Maggiore efficienza nella lavorazione su più lati
- Completamente autonomo dalla macchina
- Elevato momento torcente
- Divisione manuale o automatica tramite mandrino macchina
- 360 posizioni
- Serraggio simultaneo di due particolari grazie alla doppia flangia
- lavorazione su 5 facce senza contropunta
- Lavorazione a barra grazie al mandrino cavo
- Utilizzabile orizzontalmente o verticalmente
- Cambio tramite serraggio a cuneo
- Cost-effective on multiple-sides machining
- Machine independent
- High holding torque
- Dividing manually or automatically using the machine spindle
- 360 x 1° division
- Simultaneous clamping of 2 workpieces thanks to the dual flange
- 5 faces machining without counter-holder
- Bar machining due to hollow spindle
- To be used horizontally or vertically
- Quick change through wedge clamping



DIVIGER 205



Tipo (grandezza) / Type (size)

 Divisore Gerardi **DIVIGER 205**
 con cubo-morsa **FMS**
 per serraggi singoli, doppi
 o autocentranti

 Gerardi **DIVIGER 205**
 with **FMS**
 vise-cube for
 single, double and self-
 centering clamping

kN	1		2				3				
	25 kN		25 kN				30 kN				
D	200	300	300	400	500	600	400	500	600	700	800
G1	120		175				210				
W	74		94				124				
Cod.	5.D.I.V.20500	5.D.I.V.20510	5.D.I.V.20520	5.D.I.V.20530	5.D.I.V.20540	5.D.I.V.20550	5.D.I.V.20560	5.D.I.V.20570	5.D.I.V.20580	5.D.I.V.20590	5.D.I.V.20511
€	25.104	25.879	27.011	27.904	28.502	29.872	29.216	30.469	31.839	33.389	34.521

Nel caso si disponga di un proprio divisore, il prezzo dell'attrezzatura potrebbe subire variazioni
 In case you already have a diviger, the price could be modified

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !
Art. 99A

 Supporto
 Support


Cod. 5.99.A1000

 € **717**
Art. 99B

 Perno di centraggio completo
 di sistema d'allineamento
 Horizontal centering pin with alignment system


Cod. 5.99.B1000 5.99.B2000 5.99.B3000

 € **956** **993** **1.005**
Art. 99H

 Distanziale per supporto
 Spacer support

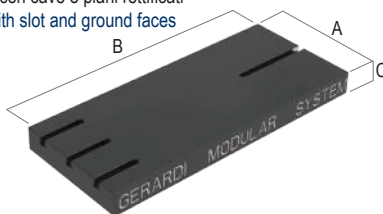

Cod. 5.99.H1000

 € **122**
Art. 62K
DIVIGER 205

 Piastra di interfaccia per cubo FMS
 completa di sistema d'allineamento
 Connecting plate with alignment system for FMS


Cod. 5.62.K801A5 5.62.K801A6 5.62.K801A7

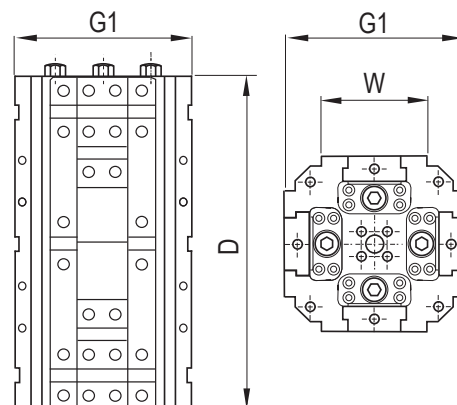
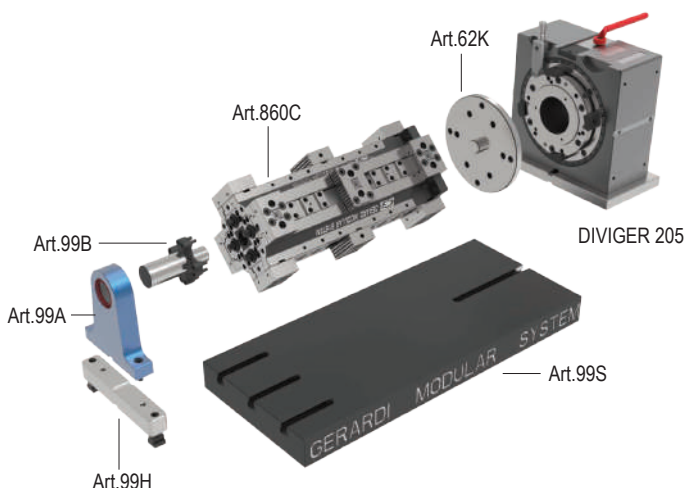
 € **1.164** **1.494** **1.494**
Art. 99S

 Piastra base con cave e piani rettificati
 Base plate with slot and ground faces


Dimensioni B mm Dimension B mm	A	C	Kg	Cod.	€
650	400	50	102	7.99.S065S	2.148
950	400	50	149	7.99.S095S	2.506
1250	400	50	195	7.99.S125S	2.863

Cave o fori calibrati su richiesta - Slot or calibrated holes on request

Disponibili quote "B" a step di 50mm - Available dimension "B" in steps of 50mm



PREDISPOSIZIONE e MONTAGGIO MORSE su CUBI LAVORATI
TOMBSTONES SET-UP and VISES MOUNTING on MACHINED TOMBSTONES
Art. 57C
Cubo lavorato
 Machined cube


Dim. A=250 / B=400 / H=660

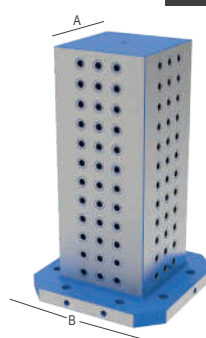
Cod. 8.53.C00081

€ 3.114
Art. 864
Tipo di morsa
 Vise type

 Art.864 Tipo 3x500
€ 2.567

Cod. 5.86.43500

 Numero morsa x 4
 Vises number

Tot. € 10.268
PREDISPOSIZIONE e MONTAGGIO MORSE su CUBO a RETICOLO
TOMBSTONES SET-UP and VISES MOUNTING on 2 GRID TOMBSTONES
Art. 53F
Cubo a reticolo
 Grid tombstone


Dim. A=250 / B=400 / H=660

Cod. 8.53.F00081

€ 4.580
Art. 864
Tipo di morsa
 Vise type

 Art.864 Tipo 3x500
€ 2.567

Cod. 5.86.43500

 Numero morsa x 4
 Vises number

Tot. € 10.268
Predisposizione e montaggio completo
 Complete set up & mounting


Cod. MAN-040-FMS

 Per morsa / each vise € 220
Tot. € 880

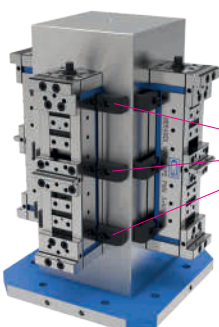
Realizzazione di fori filettati o fori di fissaggio (da un minimo di 4 a un massimo di 6), fori calibrati o chiavette (da un minimo di 2 a un massimo di 3).
 Creation of threaded holes or screw holes (minimum 4 and maximum 6), calibrated holes or key-ways (minimum 2 and maximum 3).

Montaggio ed allineamento (standard)
 (Standard) Assembly and alignment


Cod. MAN-070-FMS

 Per morsa / each vise € 110
Tot. € 440

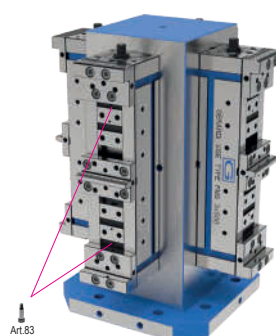
Montaggio di una o più morsa e/o attrezzature già predisposte tra loro comprensivo di controllo manuale. Il prezzo di listino comprende manodopera, viti, staffe e tasselli per singola morsa.
 Assembly of one or more vises or equipments already interfaced between themselves complete of manual check. The list price includes working hours, screws, holding clamps and key-nuts for only one vise.

Cubo con morsa
 Cube with vises


Art.296

Tot. € 14.262

 TABULATO controllo DEA - MAN-100-FMS : € 220 Extra
 PRINTOUT DEA control - MAN-100-FMS : € 220 Extra

Art. 750
Cubo con morsa
 Cube with vises


Art.750 Type 3

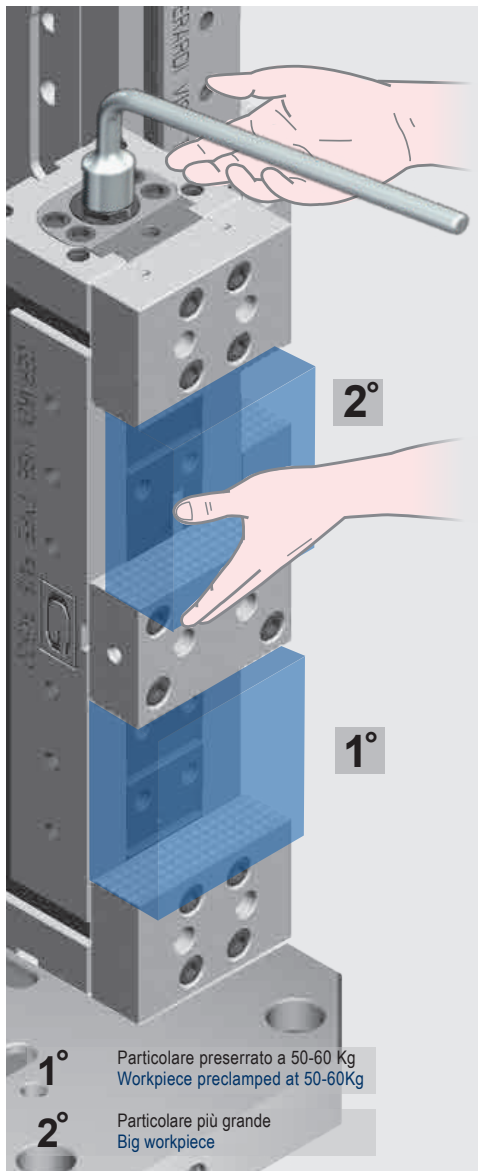
Cod. 1.75.03300

Tot. € 15.288

 TABULATO controllo DEA - MAN-100-FMS : € 220 Extra
 PRINTOUT DEA control - MAN-100-FMS : € 220 Extra

DISPOSITIVO TERZA MANO PER MORSE FMS DOPPIE

THIRD HAND ACCESSORY FOR DOUBLE FMS VISES



1° Particolare preserrato a 50-60 Kg
Workpiece preclamped at 50-60Kg

2° Particolare più grande
Big workpiece

DISPOSITIVO TERZA MANO PER MORSE FMS DOPPIE

Il meccanismo "Terza mano" nella morsa in versione a doppia stazione, consente il carico e serraggio lieve del primo pezzo (dalla parte opposta alla chiave nella stazione inferiore della morsa), mentre nel frattempo viene caricato il secondo pezzo di dimensione maggiore (da cui la denominazione "Terza mano"). Tale dispositivo risulta particolarmente utile quando la morsa viene usata in posizione verticale. Con il dispositivo "Terza mano", i due particolari da lavorare possono essere di dimensioni diverse con uno scarto massimo fra loro di 2 mm.

Il meccanismo "Terza mano" standard ha una spinta di max 50 Kg. Volendo ottenere una spinta maggiore, basta sostituire le molle in dotazione con altre di maggior potenza (attenzione però a mantenere la stessa quota di altezza del pacchetto molle) oppure aggiungendo un altro distanziale di max. 3mm

N.B: sostituendo le molle o aggiungendo un distanziale extra bisogna tener presente che il maggior precarico comporterà lo stesso carico di spinta anche girando la vite Art.822 a vuoto.

Non volendo il meccanismo "Terza Mano", il tutto può essere semplicemente rimosso togliendo le molle con i relativi distanziali dalla loro sede naturale.

Attenzione!! Assicurarsi che Art.850N rimanga fissato nella morsa per proteggere l'eventuale entrata di trucioli.

THIRD HAND DEVICE FOR DOUBLE STATION FMS VISES

The "Third Hand" device in the double station vise configuration, allows the first workpiece loaded to be gripped/clamped lightly with a little pressure (on the opposite side of the wrench and then in the lower vise station), while the second workpiece (bigger than first) is being loaded (from here the "third Hand" denomination). Such device is useful especially with the vise vertically positioned.

With the "Third Hand" device the two workpiece can be up to 2 mm different in gripping width.

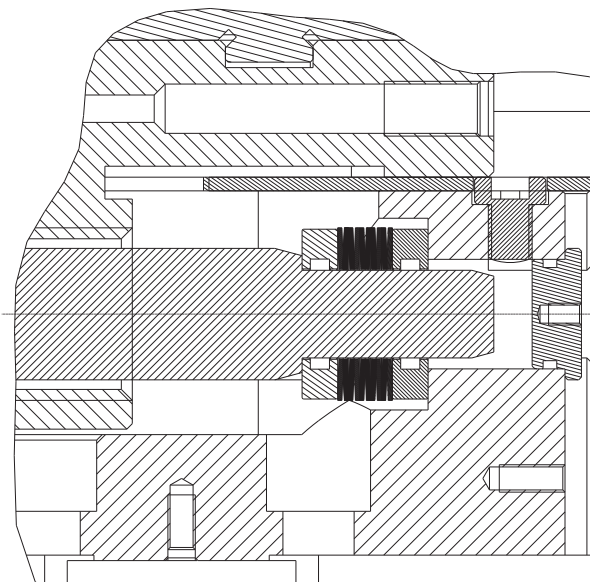
The standard "Third Hand" device has a max pressure of 50 Kg.

In order to reach a higher clamping power it is enough to preload by changing the standard springs with more powerful ones or by adding a spacer (max 3 mm). Be careful that remains the same spring and spacer packing height dimensions.

P.S: By changing springs or adding extra spacer remember that the higher preload will give the same resistance (given by the more powerful preload) even just turning the main screw Art.822 freely.

If the "Third Hand" device is not required, it could be simply removed by taking away the springs and their spacers from their standard position.

Attention!! Make sure that the Art.850N remains fixed in the vise to provide protection from dirt getting inside the vise.



Art.850P



Diagrammi di serraggio / Clamping diagrams

FMS

Diagrammi di serraggio meccanico con chiave dinamometrica

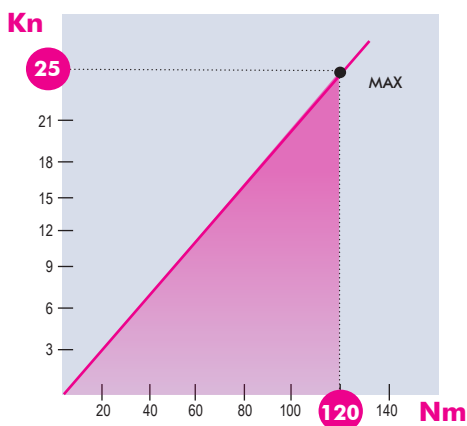
Mechanical clamping diagrams with torque wrench

Art. 357

Morse tipo Vises type

1

VITE: TPF 18 / 20 mm PASSO: 2 mm
SCREW: TPF 18 / 20 mm PITCH: 2 mm

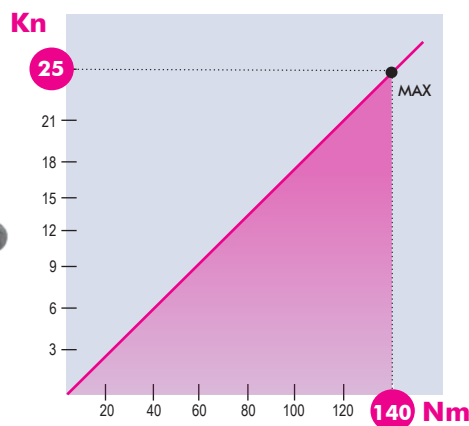


Art. 357

Morse tipo Vises type

2

VITE: TPF 18 / 24 mm PASSO: 2 mm
SCREW: TPF 18 / 24 mm PITCH: 2 mm

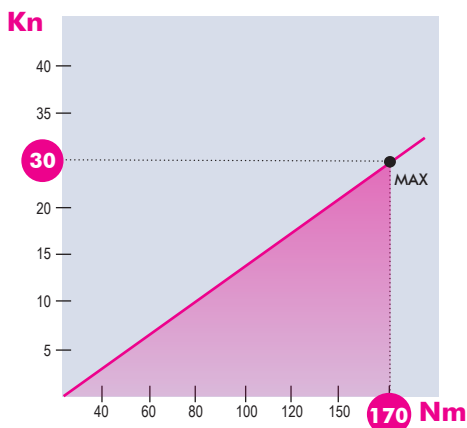


5

Morse tipo Vises type

3-4

VITE: TPF 24 / 30 mm PASSO: 2 mm
SCREW: TPF 24 / 30 mm PITCH: 2 mm

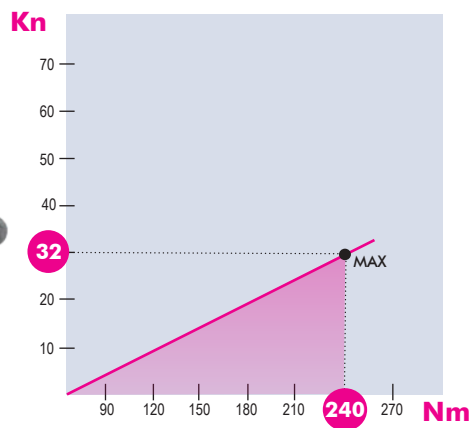


Art. 357

Morse tipo Vises type

5-6

VITE: TPF 30 / 36 mm PASSO: 3 mm
SCREW: TPF 30 / 36 mm PITCH: 3 mm



NB: Alcuni fattori, come la lubrificazione, lo staffaggio, gli attriti ed altro, possono modificare i valori indicati fino a $\pm 10\%$. Per un corretto utilizzo non superare i valori indicati nel grafico
Some factor as lubrication, clamping on the machine table, frictions and more can modify above values within a $\pm 10\%$ range. For optimum operation do not exceed chart values.

Diagrammi serraggio / Clamping diagrams

FMS

Diagrammi di serraggio meccanico con moltiplicatore di potenza

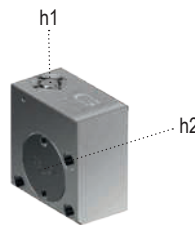
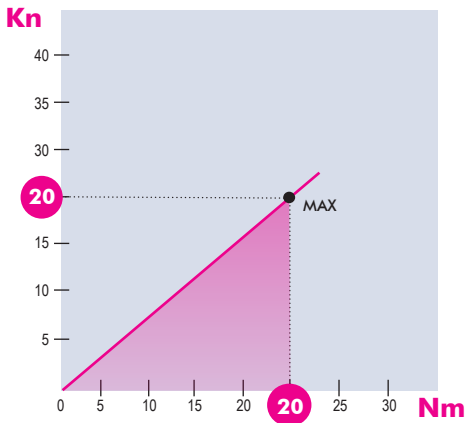
Mechanical clamping diagrams with pressure multiplier

Art. 802

Morse tipo Vises type

1

 VITE: TPF 18 / 20 mm PASSO: 2 mm
 SCREW: TPF 18 / 20 mm PITCH: 2 mm
 Rapporto trasmissione: 9:1
 Gear ratio: 9:1

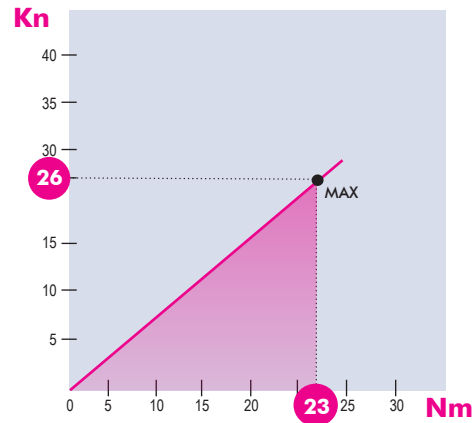
Type 1 Cod. 5.80.21000 € 906

Art. 802

RATIO = h1 : h2

Morse tipo Vises type

2

 VITE: TPF 18 / 24 mm PASSO: 2 mm
 SCREW: TPF 18 / 24 mm PITCH: 2 mm
 Rapporto trasmissione: 7:1
 Gear ratio: 7:1

Type 2 Cod. 5.80.22000 € 906


RATIO = h1 : h2

Morse tipo Vises type

3-4

 VITE: TPF 24 / 30 mm PASSO: 2 mm
 SCREW: TPF 24 / 30 mm PITCH: 2 mm
 Rapporto trasmissione: 7:1
 Gear ratio: 7:1

Type 3

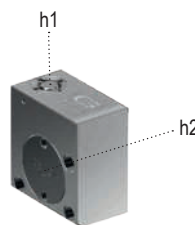
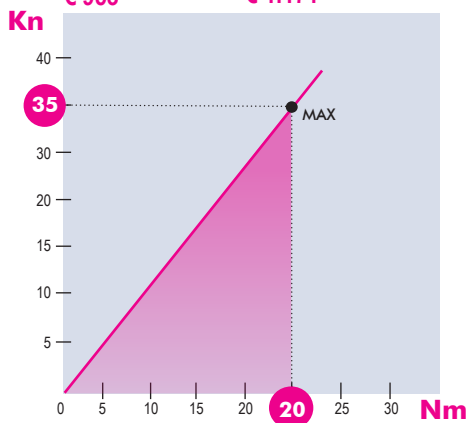
Cod. 5.80.23000

€ 953

Type 4

Cod. 5.80.24000

€ 1.171


Art. 802

RATIO = h1 : h2

Morse tipo Vises type

5-6

 VITE: TPF 30 / 36 mm PASSO: 3 mm
 SCREW: TPF 30 / 36 mm PITCH: 3 mm
 Rapporto trasmissione: 7:1
 Gear ratio: 7:1

Type 5

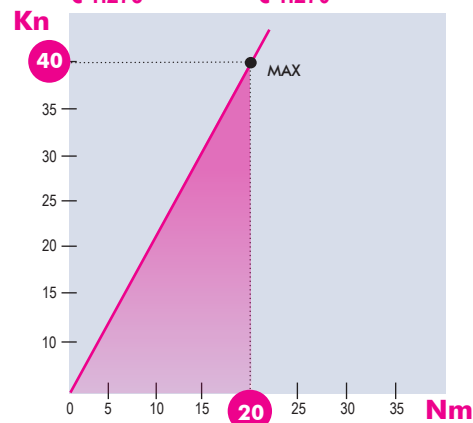
Cod. 5.80.25000

€ 1.278

Type 6

Cod. 5.80.26000

€ 1.270



RATIO = h1 : h2

NB: Alcuni fattori, come la lubrificazione, lo staffaggio, gli attriti ed altro, possono modificare i valori indicati fino a $\pm 10\%$. Per un corretto utilizzo non superare i valori indicati nel grafico
 Some factor as lubrication, clamping on the machine table, frictions and more can modify above values within a $\pm 10\%$ range. For optimum operation do not exceed chart values.

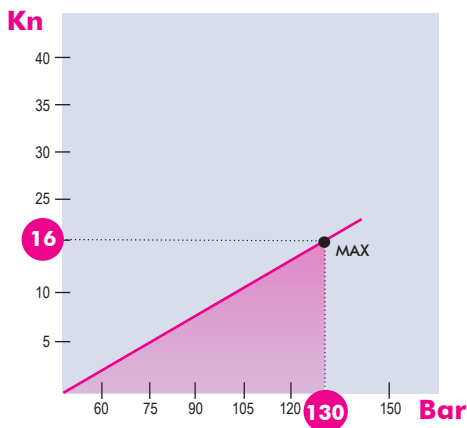
Diagrammi serraggio / Clamping diagrams

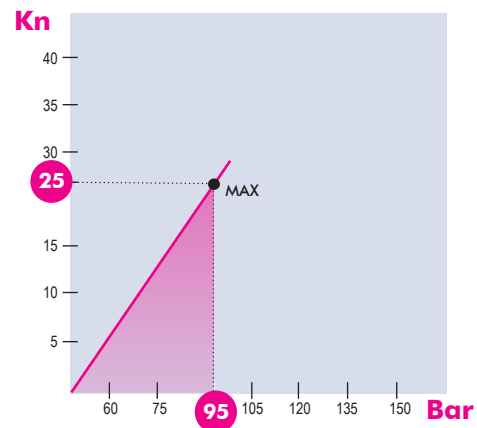
FMS

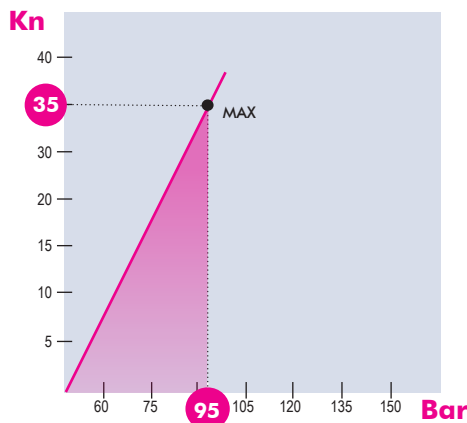
Diagrammi di serraggio meccanico tramite motore idraulico

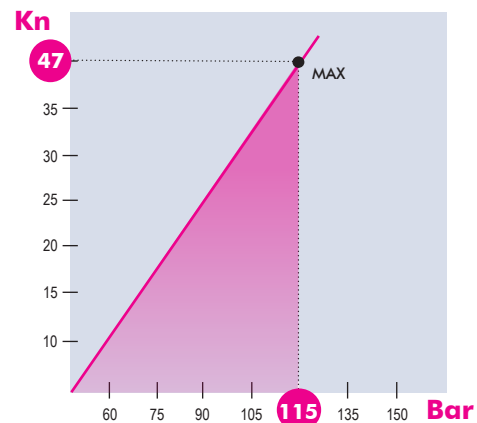
Mechanical clamping diagrams through hydraulic motor

Art. 890
Morse tipo
Vises type
1

 VITE: TPF 18 / 20 mm PASSO: 2 mm
 SCREW: TPF 18 / 20 mm PITCH: 2 mm
 Motore idraulico tipo **OMM 32**
 Hydraulic motor type **OMM 32**

Art. 890
Morse tipo
Vises type
2

 VITE: TPF 18 / 24 mm PASSO: 2 mm
 SCREW: TPF 18 / 24 mm PITCH: 2 mm
 Motore idraulico tipo **OMP 80**
 Hydraulic motor type **OMP 80**

Morse tipo
Vises type
3-4

 VITE: TPF 24 / 30 mm PASSO: 2 mm
 SCREW: TPF 24 / 30 mm PITCH: 2 mm
 Motore idraulico tipo **OMR 200**
 Hydraulic motor type **OMR 200**

Art. 890
Morse tipo
Vises type
5-6

 VITE: TPF 30 / 36 mm PASSO: 3 mm
 SCREW: TPF 30 / 36 mm PITCH: 3 mm
 Motore idraulico tipo **OMR 200**
 Hydraulic motor type **OMR 200**

ATTENZIONE! Azionamento idraulico ma serraggio meccanico (PIU' SICURO) - IMPORTANT! Hydraulic control, but mechanical clamping (SAFER)

 NB: Alcuni fattori, come la lubrificazione, lo staffaggio, gli attriti ed altro, possono modificare i valori indicati fino a $\pm 10\%$. Per un corretto utilizzo non superare i valori indicati nel grafico
 Some factor as lubrication, clamping on the machine table, frictions and more can modify above values within a $\pm 10\%$ range. For optimum operation do not exceed chart values.

ISTRUZIONI PER UN CORRETTO UTILIZZO

INSTRUCTIONS FOR A PROPER USE



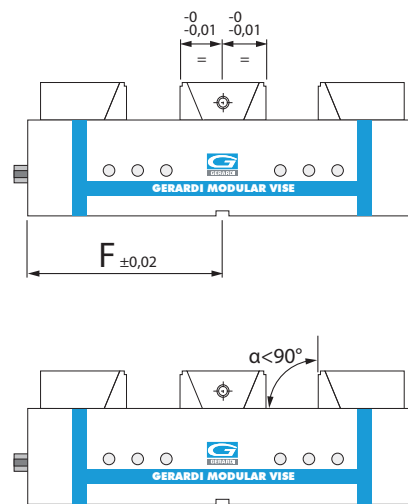
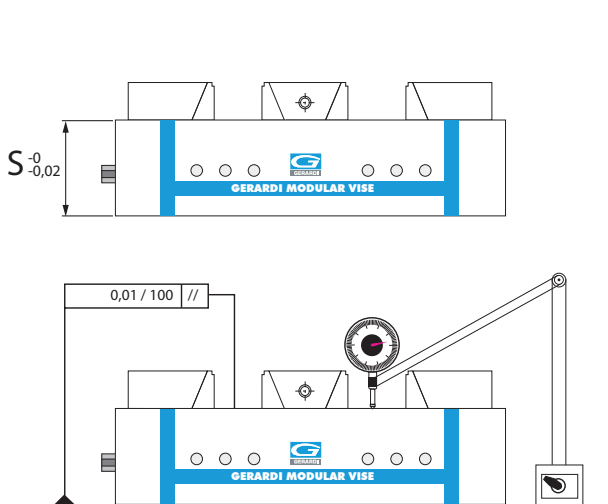
Libretto Istruzioni / Instruction Book

Scansiona il QR code e scarica le istruzioni complete

Scan the QR code to download the complete instructions

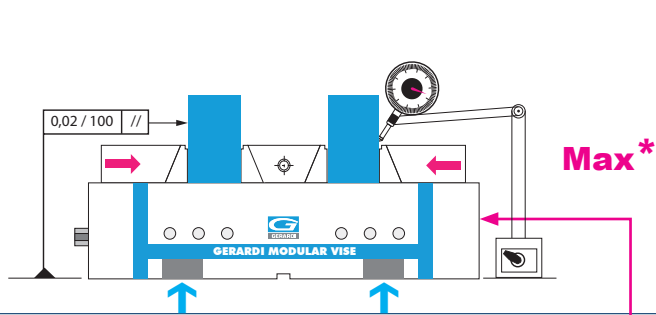
TOLLERANZE GEOMETRICHE

GEOMETRIC ACCURACIES

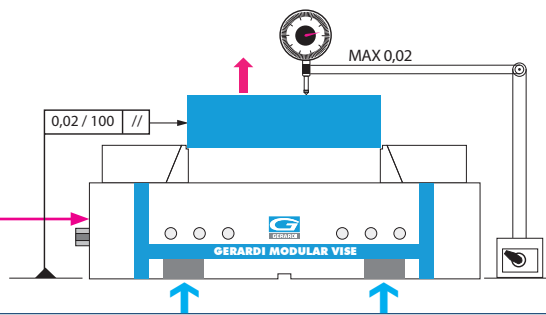


TOLLERANZE DINAMICHE

DINAMIC ACCURACIES



Morsa ancorata con 2 coppie di staffe Art.296
Vise clamped with n. 2 pairs of Art.296



Morsa ancorata con 2 coppie di staffe Art.296
Vise clamped with n. 2 pairs of Art.296

Art 865

* Coppia applicata - Torque Nm

Forza di serraggio - Clamping power

Morsa tipo 1	Vise type 1
Morsa tipo 2	Vise type 2
Morsa tipo 3	Vise type 3
Morsa tipo 4	Vise type 4
Morsa tipo 5	Vise type 5
Morsa tipo 6	Vise type 6

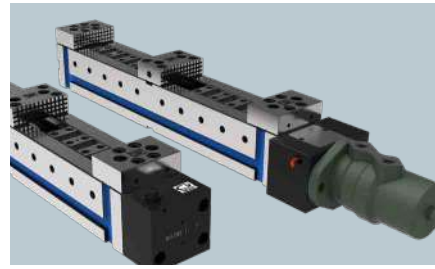
120
140
180
180
240
240

2500 Kgf
2500 Kgf
3000 Kgf
3000 Kgf
3200 Kgf
3200 Kgf

* Max coppia applicabile per non superare i valori consigliati

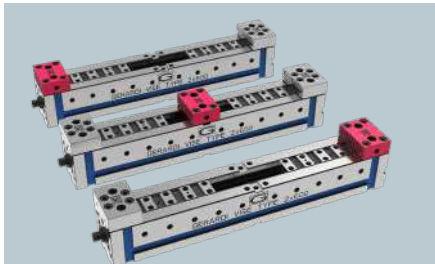
1 kgf . m = 9.806

ESTREMA VERSATILITY
EXTREME VERSATILITY

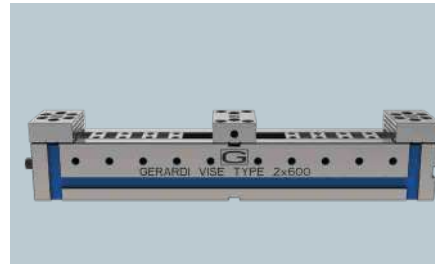


Sistema di serraggio meccanico, idraulico, pneumatico elettrico o con moltiplicatore di potenza, tramite comando manuale, a pedale o mediante pulsante elettrico (vedi pag. 12)

Mechanic, hydraulic or pneumatic or electrical clamping system or with pressure multiplier, through manual, pedal or push button control (see page 12)

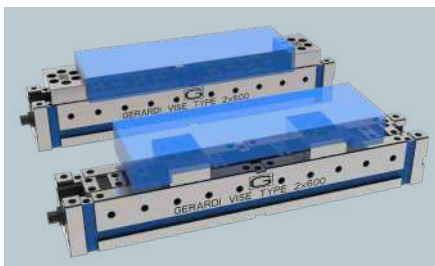


3 posizioni per la ganaschia fissa
3 positions for the fixed jaw

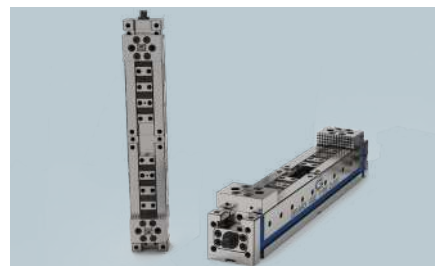


Costruzione solida e compatta e massima apertura rispetto alla sua lunghezza

Space saving design, solid construction and maximum blocking ratio to total length

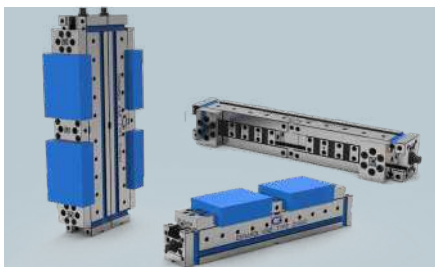


Serraggio dall'esterno all'interno e viceversa
Outside to inside clamping and viceversa

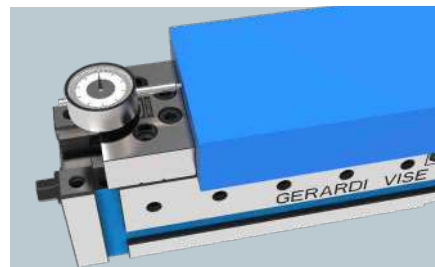


Precisioni geometriche con tolleranze entro 0,02mm

Geometrical accuracy with tolerances within 0,02 mm

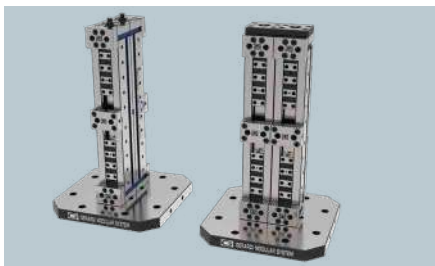


Posizionamento verticale-orizzontale laterale grazie alle chiavette longitudinali e trasversali sia sulla base che in testa
Vertically, horizontally and sideway vise positioning by the

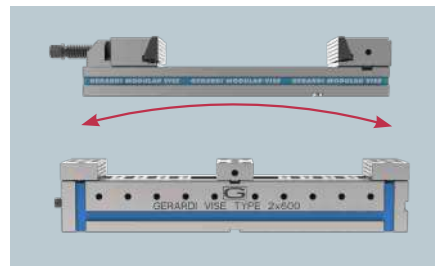


Accurata ripetibilità di posizionamento dei particolari da lavorare

Very accurate repeatability of workpieces position

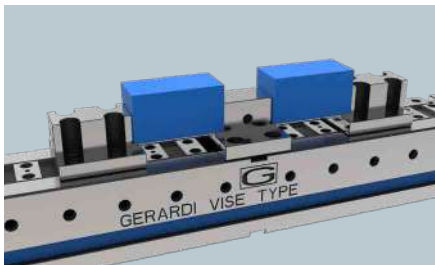


Collegamento: fianco a fianco, dorso a dorso
Side by side, back to back vise positioning

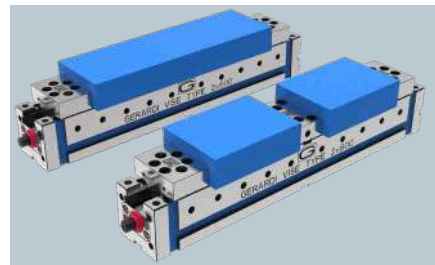


Flessioni ridotte di due volte rispetto alle morse modulari STANDARD

Bending reduced two times with respect to the STANDARD modular vises

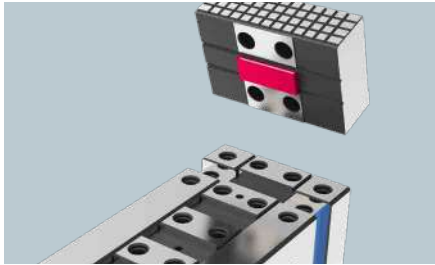


Possibilità illimitata per ganasce speciali
Unlimited range of special jaws

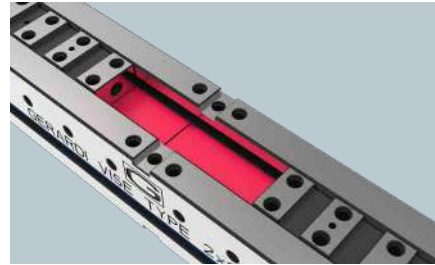


Trasformazione da autocentrante a doppia tramite la sostituzione delle ganasce sul corpo base universale e tramite la ghiera di regolazione.

Trasform each single vise in a self-centering with possibility to block from outside to inside and vice versa and in a double vise through the substitution of the jaws on the universal vise body base and by the setting nut.



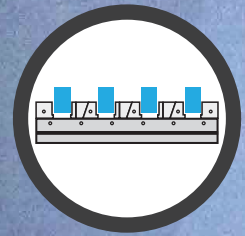
Sostituzione semplice e precisa delle ganasce
Simple and precise exchange of jaws



Protezione integrale dalla penetrazione di corpi estranei tramite piastre scorrevoli

Integral protection from chips and dirty through sliding protections

5



5

6

The most versatile vises!

MULTIFLEX

Morse e Cubi / Vises & Vise Towers

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VALIGETTA DI CAMPIONATURA STD (Art.600)

SAMPLE KIT CASE STD (Art.600)

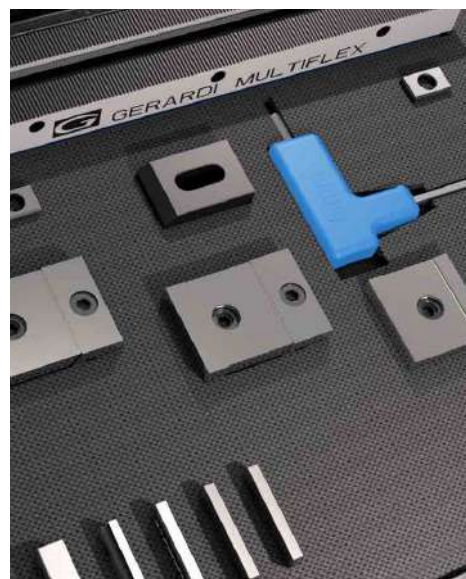
Art. 984

Art.600 T.1x400



Art. 600 - All'Interno - Inside:

Art. 604	Art. 605	Art. 609	Art. 613
Art. 615	Art. 605L	Art. 610B	Art. 610C
Art. 610D	Art. 610E	Art. 610F	Art. 610T
Art. 297	Art. 298	Art. 370	Art. 375
Art. 376			



Morsa / Vise Art. 600

Cod. 0.98.40000

 PRICE LIST € ~~1.623~~

 SPECIAL PRICE € **800**

SIMBOLOGIA DATI TECNICI TECHNICAL DATA ICONS

GANASCE JAWS				
	Fissa Fixed	Mobile e fissa Fixed and movable	Mobile e fissa a gradino Fixed and movable with step	Mobile doppia Double movable
PIASTRE GANASCE JAW PLATES				
			Piana Straight	GRIP integrale Integral GRIP

POSSIBILITÀ POSSIBILITY				
	Predisposi- zione Zero Point Zero Point Ready	Cubi-morsa Vise tower	Divisore automatico Dividing head	Divisore Meccanico Mechanical dividing head
PAGINE PAGES				
		Accessori & Ricambi Accessories & Spare Parts	Istruzioni corretto utilizzo Instruction for a proper use	Diagrammi forze di serraggio Clamping force diagrams

OPZIONI LAVORAZIONI EXTRA OPTIONS FOR EXTRA MACHINING

 Nei codici, **FMS** si riferisce agli articoli dei gruppi 5, 6 e 7.
 In codes, **FMS** refers to articles in groups 5, 6 and 7.

Lavorazione extra Extra machining	Cod.	PRICE LIST €
AGGIUNTA di un foro calibrato ADDITION of a calibrated hole	MAN-010-FMS	110
AGGIUNTA di una chiave calibrata ADDITION of a calibrated key-way	MAN-020-FMS	110
PREDISPOSIZIONE SEMPLICE SIMPLE SET UP	MAN-030-FMS	110
PREDISPOSIZIONE & MONTAGGIO COMPLETO COMPLETE SET UP & MOUNTING	MAN-040-FMS	220
MONTAGGIO PARZIALE PARTIAL ASSEMBLY	MAN-050-FMS	110

Lavorazione extra Extra machining	Cod.	PRICE LIST €
MONTAGGIO SEMPLICE SIMPLE ASSEMBLY	MAN-060-FMS	-
MONTAGGIO ed ALLINEAMENTO (Standard) (Standard) ASSEMBLY and ALIGNMENT	MAN-070-FMS	110
MONTAGGIO VERTICALE COMPLETE VERTICAL ASSEMBLY	MAN-080-FMS	165
ALLINEAMENTO e CONTROLLO tramite DEA ALIGNMENT and CONTROL by DEA \ CMM	MAN-090-FMS	440
TABULATO controllo DEA PRINTOUT DEA control	MAN-100-FMS	220

Vedi pagina 6.44 per esempi applicativi - See page 6.44 for application examples

Morse e cubi morsa / Vises & vise-towers

MULTIFLEX SERIES



Precisione / Accuracy
 $\pm 0,02\text{mm}$



Durezza / Hardened
HRC 58 \pm 2

Per serraggi multipli fino a 19 particolari di varie dimensioni

For flexible clamping of multiple workpieces of various sizes

USURA INESISTENTE / NO WEAR

Grazie all'accurata scelta dei materiali impiegati ed allo studio dimensionale computerizzato dei componenti. Costruzione in speciali lega di acciaio ad alta resistenza, normalizzato, cementato e temprato con durezza fino a 60 HRC. Tutto ciò al fine di conferire massima rigidità, elevate prestazioni e usura inesistente. A riprova di tutto ciò assicuriamo **5 ANNI DI GARANZIA** su tutto il programma morse e organi meccanici in genere.

Thanks to the manufacturing with only the most suitable materials and to the structure of the vise components (developed using computer customised softwares and the experience gained during many years spent working on the specific field). High alloyed quality resistance steel, case hardened up to 60 HRC, is used in manufacturing all the Gerardi vises and accessories in order to give maximum rigidity, high performances and no wear. As evidence we give **5 YEARS WARRANTY** on all the vises and mechanical components.

SERRAGGI ILLIMITATI / UNLIMITED CLAMPING

(Ganasce a gradino, zigrinate, lisce, per tondi, dolci, doppie, ecc.) La posizione, il numero o il tipo di ganasce può variare a seconda delle necessità di serraggio (possibilità di bloccare da 1 a 19 pezzi sulla stessa morsa) Pag.6.21

(Step jaws, serrated, flat, prismatic, soft, double, etc.) The jaws positioning, number or type could vary according to the workholding needs (from 1 to 19 pcs. clamping possibility on the same vise base) Page. 6.21

TEMPI DI ATTREZZAGGIO RIDOTTI

REDUCED SET-UP TIMES

Posizionamenti ed ancoraggi delle ganasce sul corpo base di rapida esecuzione ed in prossimità del particolare da lavorare.

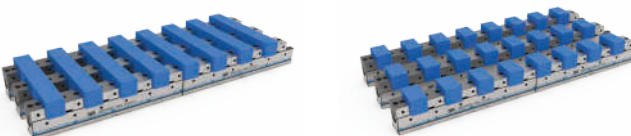
Quick and versatile jaws positioning very close to the workpiece.



MONTAGGIO IN PARALLELO - PARALLEL MOUNTING

10 morse - Serraggio di 1 particolare
 10 vises - 1 workpiece clamped

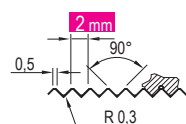
10 morse - Serraggio di 4 particolari
 10 vises - 4 workpieces clamped



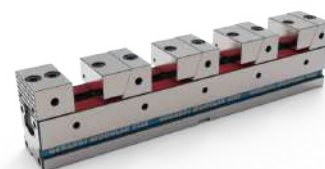
MONTAGGIO IN LINEA - IN LINE MOUNTING

6 morse - Serraggio di 8 particolari
 6 vises - 8 workpieces clamped

6 morse - Serraggio di 24 particolari
 6 vises - 24 workpieces clamped



2 mm
 Passo delle righe
 Rows pitch



Versatilità - Versatility

Possibilità di posizionare, aggiungere o rimuovere le ganasce su qualsiasi posizione della dentatura della base.

Possibility of jaws positioning, addition or remove on whatever position on the vise base teeth



Massima precisione Highest accuracy

Garantita la massima precisione di posizionamento ed allineamento delle ganasce e delle morse grazie alla rettificatura dal pieno della dentatura di ancoraggio della base.

Highest accuracy guaranteed in positioning and alignment ($\pm 0,02\text{ mm}$) thanks to the ground rack teeth on both the base and the fixed jaws.



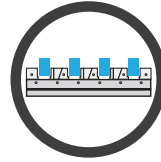
Azione discendente Pull down jaw action

Cuneo di spinta guidato grazie al sistema a pettine con righe rettificata sulla ganasce fissa e mobile.

Wedge clamps with guided pull-down law action thanks to the ground comb-teeth even between the fixed and movable jaws

Le morse della serie MULTIFLEX rappresentano un innovativo sistema modulare di serraggio in grado di sfruttare al massimo la capacità della tavola della macchina e di aumentarne, di conseguenza, la produttività. Il sistema è stato ideato per poter serrare contemporaneamente un notevole numero di pezzi sulla tavola della macchina utensile, riducendo così notevolmente i tempi morti.

The MULTIFLEX series vises are a total new concept of modular clamping system able to maximize the machine table capacity and thus to increase its productivity. This system is designed for clamping several workpieces at the same time on the machine tool table, thus reducing tool changeover times.



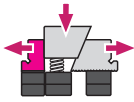
SCAN IT TO SEE



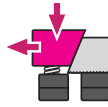
THE WEB PAGE



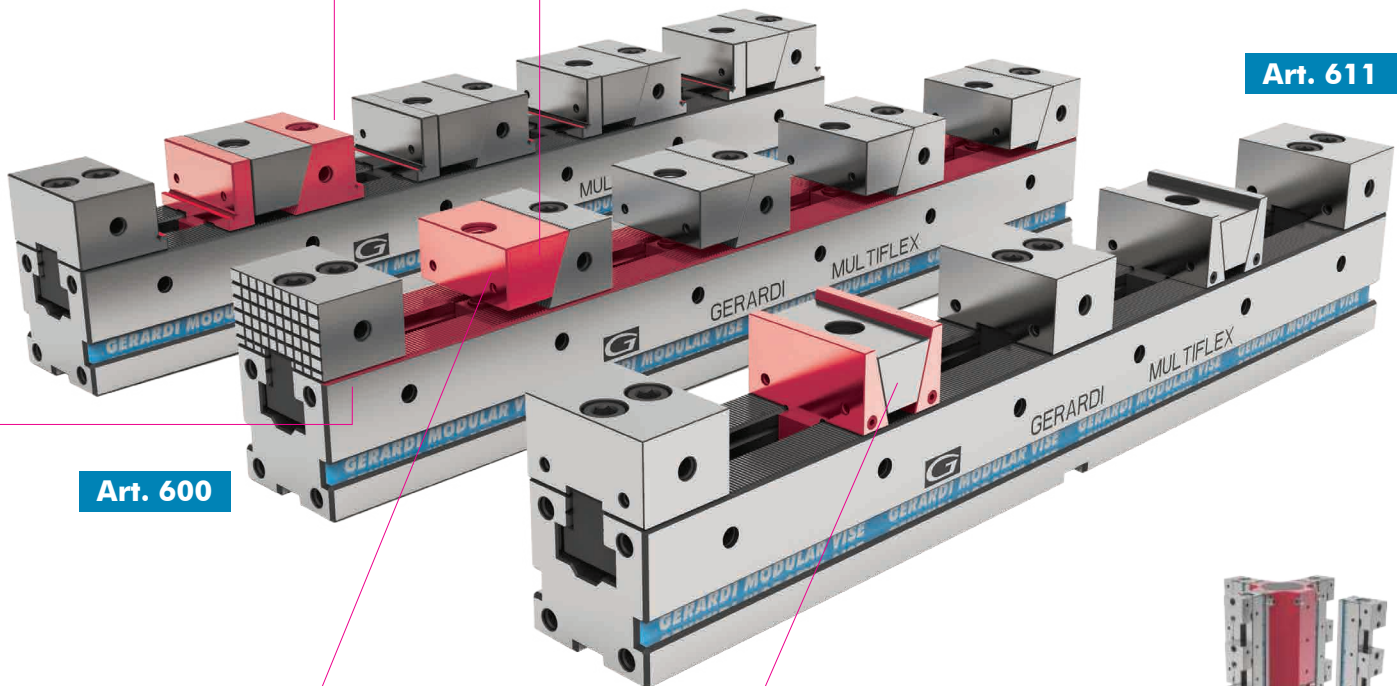
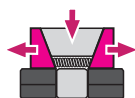
Le morse più versatili!
The most versatile vises!



Ganascia fissa e mobile
 con gradino per il sollevamento del particolare
 Fixed & Movable Jaw
 with step to rise up the workpiece



Ganascia fissa e mobile
 per particolari in appoggio sulla base
 Fixed & Movable Jaw
 with step to rise up the workpiece

Art. 606
Art. 611

Art. 600


Cuneo di spinta
 Per il serraggio simultaneo di 2 particolari
 Clamping Wedge
 To the clamp of 2 workpieces simultaneously

Montaggio Verticale Vertical Set-Up



Tramite distanziali, strutture portapezzi o cubi-morsa verticali. Le morse modulari MULTIFLEX possono essere assemblate verticalmente, legate fra loro o montate su specifiche strutture portapezzi.

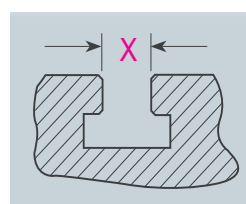
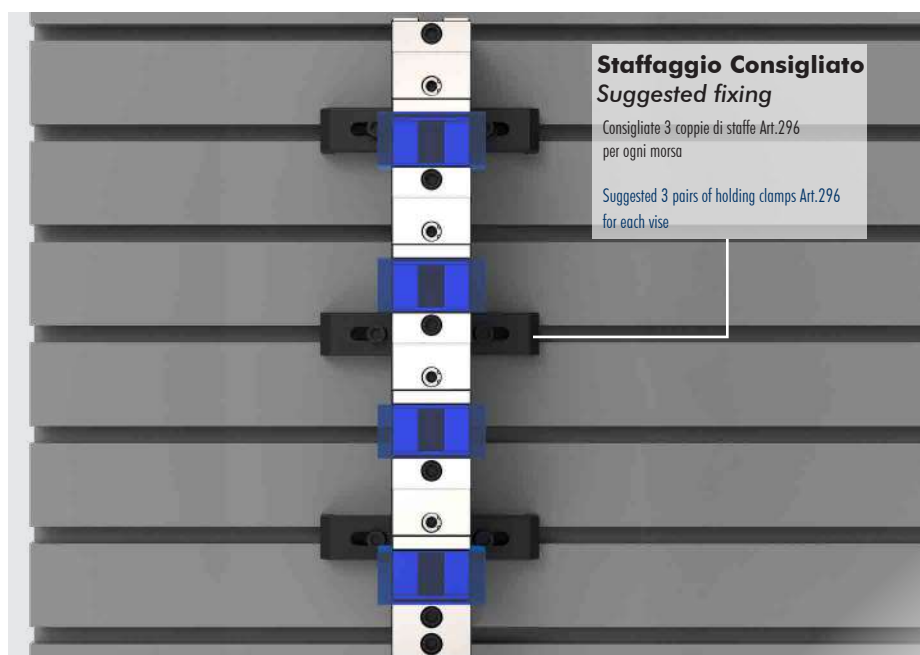
Through spacers, tombstones or vise-towers. MULTIFLEX vises can be vertically assembled linked each other or clamped to specific workholding structures.

Staffe d'ancoraggio / Vise holding clamps

NEW
2024

MULTIFLEX

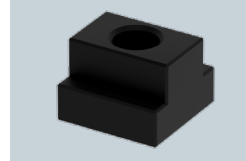
Coppia staffe di fissaggio Art.296, complete di vite e dado a "T"
Pair of vise holding clamps Art.296 complete of screw and "T" nuts

Esempio d'ordine per morsa tipo 3 su macchina con cave a T da 18mm: Art.296 T.3 X=18mm
Oppure con codice: 2.29.6200 X=18mm
Order example for Type 3 vise on machine with 18mm T-slots: Art.296 T.3 X=18mm
Also with code: 2.29.6200 X=18mm

Cava a T
T Slot

Specificare sempre la cava della vostra macchina

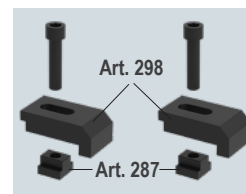
Always specify the machine T-slot dimension

Ref N° Pag.4.34


Art.287
Dadi a T - T Nuts

Per fissaggio morse alle cave a T della macchina

For vise clamping on the machine T-slots


Art.296
(Art.298 + Art.287)

Consigliate 3 coppie di staffe Art.296 per ogni morsa

Suggested 3 pairs of holding clamps Art.296 for each vise

Tipo (grandezza) Type (size)	1				1								2 - 3							
	12	14	16	18	12*	14	16	16	18	20	18*	20	22	16	18	20	22	18*	20	22
Art. 296	Cava a T slot X																			
	T-nuts Ref. N°																			
Coppia di staffe Holding clamps pair	Filetto vite Screw thread				M8		M10		M12 *		M16		M12		M16 *					
1 X M8 	A				50		50		50		50		76		76					
	B				24		24		24		24		30		30					
	C				6		6		6		6		6		6					
	Ø D				8,5		11		13		17		13		17					
	E				10		10		10		10		13		13					
	Ø F				14		-		-		-		-		-					
	G / G1				14		16/15		17,5/13		19/9		17/22		16/15					
	H				34		34		34		34		42		42					
	I				8		10		10		10		-		-					
	J				4		4		4		4		10		10					
T ± 0,1				15		15		15		15		20		20						
	Cod.				2.29.61000 / M8		2.29.61000 / M10		2.29.61000 / M12		2.29.61000 / M16		2.29.63000 / M12		2.29.63000 / M12					
	€				45		45		45		45		56		56					

* Scelta consigliata - Suggested choice

* Scelta NON consigliata - NOT Suggested choice

Soluzioni personalizzate / Customized solutions

MULTIFLEX

Soluzioni personalizzate a tutti i vostri problemi di serraggio

Customized solutions for all your clamping problems



Morse Multiflex montate verticalmente

Multiflex vises vertically mounted

Cubo portapezzi Art.53C con 8 morse Multiflex Art.606 2x600 montato su Matsura H.Plus 400 per serraggio di 32 pezzi

Tombstone Art.53C with 8 Multiflex vises Art.606 2x600 mounted on Matsura H.Plus 400 for 32 pcs clamping



Morse Multiflex

Multiflex vises

Morse Multiflex montate in parallelo su centro di lavoro verticale per serraggi multipli

Multiflex vises mounted in parallel on vertical machining centre for multiple clamping



Cubo Multiflex

Multiflex vise tower

Particolari fuori dimensione, ma lavorati su cubo Multiflex Art.607 tipo 2

Rather big work-pieces machined on a Multiflex vise tower Art.607 Type 2



Morse Multiflex su quarto asse

Multiflex vises on 4th axis

Morsa Multiflex con relativa piastra di interfaccia montata su quarto asse

Multiflex vise with interface plate assembled on 4th axis



Morse Multiflex

Multiflex vises

Morse Multiflex Art.611 Tipo 1x700mm con ganasce doppie montate su centro di lavoro HAAS per serraggio di 2 particolari, uno fuori dimensione ed uno molto più piccolo

Multiflex vises Art.611 Type 1x700mm with double jaws shown on Haas machining centre for 2 workpieces clamping, one rather big and the other much smaller.

GUIDA RAPIDA

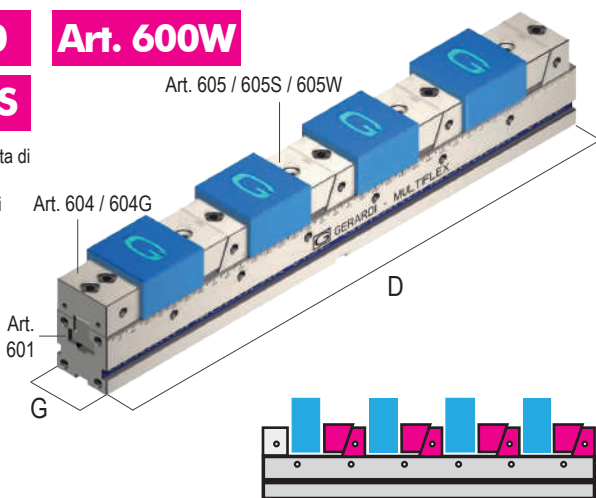
Per la scelta della morsa Multiflex più adatta alle vostre esigenze

Tipo (grandezza) morsa / Vise type (size)

Art. 600 Art. 600W

Art. 600S

 Ogni morsa è completa di
 1 ganasca fissa,
 4 ganasce fisse-mobili

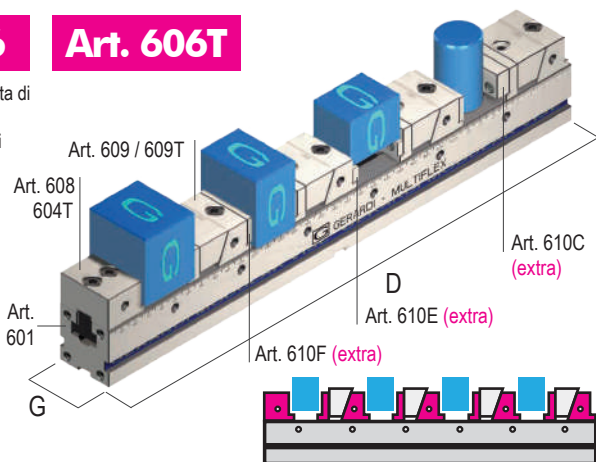
 Each vise is
 supplied with
 1 fixed jaw and
 4 fixed-movable
 jaws

 Per particolari in appoggio sulla base
 For workpieces clamped directly on vise base

 Apertura max in relazione al numero dei particolari
 Max opening according to workpieces to be clamped

kN	1		
	20 kN		
D	300	400	500
G ^{-0,02}	50	50	50
1 pezzo / piece	205	305	408
2 pezzi / pieces	75	125	175
3 pezzi / pieces	30	64	96
4 pezzi / pieces	8	33	58
5 pezzi / pieces	-	15	35
6 pezzi / pieces	-	3	19
7 pezzi / pieces	-	-	8
8 pezzi / pieces	-	-	-
9 pezzi / pieces	-	-	-
10 pezzi / pieces	-	-	-
11 pezzi / pieces	-	-	-
12 pezzi / pieces	-	-	-
Cod. Art. 600	6.60.01300	6.60.01400	6.60.01500
Cod. Art. 600S	6.60.0S130	6.60.0S140	6.60.0S150
Cod. Art. 600W	6.60.0W130	6.60.0W140	6.60.0W150

Art. 606 Art. 606T

 Ogni morsa è completa di
 1 ganasca fissa,
 4 ganasce fisse-mobili

 Each vise is
 supplied with
 1 fixed jaw and
 4 fixed-movable
 jaws

 Per particolari sollevati per forature passanti
 Rised workpieces for drill through holes

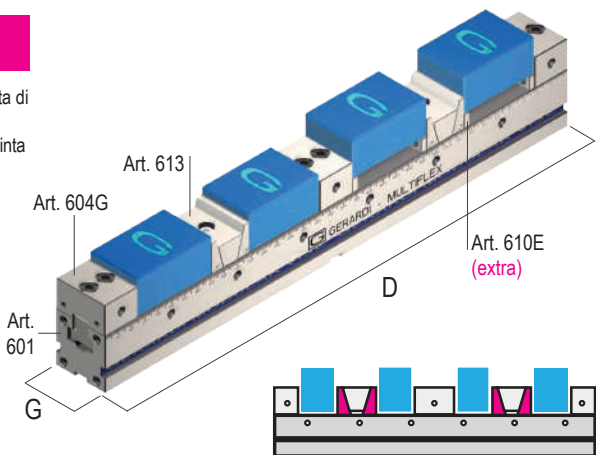
 Apertura max in relazione al numero dei particolari
 Max opening according to workpieces to be clamped

D	300 *	400	500
	G ^{-0,02}	50	50
1 pezzo / piece	193	293	393
2 pezzi / pieces	63	113	163
3 pezzi / pieces	19	53	86
4 pezzi / pieces	-	23	48
5 pezzi / pieces	-	-	25
6 pezzi / pieces	-	-	-
7 pezzi / pieces	-	-	-
8 pezzi / pieces	-	-	-
9 pezzi / pieces	-	-	-
10 pezzi / pieces	-	-	-
11 pezzi / pieces	-	-	-
12 pezzi / pieces	-	-	-
Cod. Art. 606	6.60.61300	6.60.61400	6.60.61500
Cod. Art. 606T	6.60.6T130	6.60.6T140	6.60.6T150

* Solo per tipo 1 x 300 e 2 x 400 n. 3 ganasce fisse-mobili in dotazione Standaard

Art. 611

 Ogni morsa è completa di
 3 ganasce fisse,
 2 ganasce mobili di spinta

 Each vise is
 supplied with
 3 fixed jaws
 and 2 clamping
 movable jaws

 Per particolari in appoggio oppure sollevati con parallele
 For workpieces on vise base or rised up with parallels

 Apertura max in relazione al numero dei particolari
 Max opening according to workpieces to be clamped

D	300	400	500
	G ^{-0,02}	50	50
1 pezzo / piece	174	274	374
2 pezzi / pieces	87	137	185
3 pezzi / pieces	28	62	95
4 pezzi / pieces	21	46	71
5 pezzi / pieces	-	19	39
6 pezzi / pieces	-	16	33
7 pezzi / pieces	-	-	15
8 pezzi / pieces	-	-	13
9 pezzi / pieces	-	-	2
10 pezzi / pieces	-	-	-
11 pezzi / pieces	-	-	-
12 pezzi / pieces	-	-	-
Cod.	6.61.11300	6.61.11400	6.61.11500

QUICK GUIDE

For the proper Multiflex vise choice according to your specific application

D	1 20 kN		2 30 kN						3 40 kN			
	600	700	400	500	600	700	800	900	700	800	900	1000
$G_{-0,02}^0$	50	50	75	75	75	75	75	75	100	100	100	100
1 pcs.	508	608	275	375	475	575	675	755	532	632	732	832
2 pcs.	225	275	100	150	200	250	300	350	217	267	317	367
3 pcs.	129	161	41	75	108	141	175	280	112	145	178	211
4 pcs.	83	108	12	37	62	87	112	137,5	59	84	109	134
5 pcs.	55	75	-	15	35	55	75	95	28	48	68	88
6 pcs.	36	52	-	-	16	33	50	66,5	7	23	39	55
7 pcs.	22	36	-	-	3	17	32	46	-	6	2	34
8 pcs.	12	24	-	-	-	6	18	31	-	-	5	18
9 pcs.	5	16	-	-	-	-	8	19	-	-	-	5
10 pcs.	-	8	-	-	-	-	-	10	-	-	-	-
11 pcs.	-	2	-	-	-	-	-	2	-	-	-	-
12 pcs.	-	-	-	-	-	-	-	-	-	-	-	-
Cod. Art.	6.60.01600	6.60.01700	6.60.02400	6.60.02500	6.60.02600	6.60.02700	6.60.02800	6.60.02900	6.60.03700	6.60.03800	6.60.03900	6.60.03100
Cod. Art.	6.60.0S160	6.60.0S170	6.60.0S240	6.60.0S250	6.60.0S260	6.60.0S270	6.60.0S280	6.60.0S290	6.60.0S370	6.60.0S380	6.60.0S390	6.60.0S310
Cod. Art.	6.60.0W160	6.60.0W170	6.60.0W240	6.60.0W250	6.60.0W260	6.60.0W270	6.60.0W280	6.60.0W290	6.60.0W370	6.60.0W380	6.60.0W390	6.60.0W310

D	600	700	400 *	500	600	700	800	900	700	800	900	1000
$G_{-0,02}^0$	50	50	75	75	75	75	75	75	100	100	100	100
1 pcs.	493	593	262	362	462	562	662	762	512	612	712	812
2 pcs.	213	263	87	137	187	237	287	337	197	247	294	347
3 pcs.	119	152	28	62	95	128	162	195	92	125	158	191
4 pcs.	73	97	-	4 x 27	4 x 52	4 x 77	4 x 102	4 x 127	39	64	89	114
5 pcs.	45	64	-	2	22	42	62	82	8	28	48	68
6 pcs.	26	42	-	-	3	20	37	53,5	-	3	20	37
7 pcs.	13	26	-	-	-	4	19	33	-	-	-	14
8 pcs.	-	14	-	-	-	-	5	18	-	-	-	-
9 pcs.	-	5	-	-	-	-	-	6	-	-	-	-
10 pcs.	-	-	-	-	-	-	-	-	-	-	-	-
11 pcs.	-	-	-	-	-	-	-	-	-	-	-	-
12 pcs.	-	-	-	-	-	-	-	-	-	-	-	-
Cod. Art.	6.60.61600	6.60.61700	6.60.62400	6.60.62500	6.60.62600	6.60.62700	6.60.62800	6.60.62900	6.60.63700	6.60.63800	6.60.63900	6.60.63100
Cod. Art.	6.60.6T160	6.60.6T170	6.60.6T240	6.60.6T250	6.60.6T260	6.60.6T270	6.60.6T280	6.60.6T290	6.60.6T370	6.60.6T380	6.60.6T390	6.60.6T310

* Only for type 1 x 300 and 2 x 400 n. 3 fixed-movable jaws Included in the standard equipment

D	600	700	400	500	600	700	800	900	700	800	900	1000
$G_{-0,02}^0$	50	50	75	75	75	75	75	75	100	100	100	100
1 pcs.	474	574	242	342	442	542	642	792	470	570	670	770
2 pcs.	237	287	121	171	221	271	321	371	235	285	335	285
3 pcs.	128	162	45	78	112	145	178	228	103	136	169	202
4 pcs.	96	121	34	59	84	109	134	158,5	77	102	127	152
5 pcs.	59	79	5	25	45	65	85	115	30	50	70	90
6 pcs.	49	66	-	21	38	54	71	87,5	25	41	57	73
7 pcs.	30	44	-	3	17	31	46	66,5	-	12	26	40
8 pcs.	26	38	-	-	15	27	40	52	-	11	23	35
9 pcs.	13	24	-	-	1	12	23	40	-	-	3	14
10 pcs.	12	22	-	-	-	11	21	31	-	-	-	-
11 pcs.	3	12	-	-	-	-	10	22,5	-	-	-	-
12 pcs.	2	11	-	-	-	-	9	16,5	-	-	-	-
Cod. Art.	6.61.11600	6.61.11700	6.61.12400	6.61.12500	6.61.12600	6.61.12700	6.61.12800	6.61.12900	6.61.13700	6.61.13800	6.61.13900	6.61.13100

GUIDA RAPIDA

Per la scelta della morsa Multiflex più adatta alle vostre esigenze

GANASCIA Tipo 1 (49mm) su BASE Tipo 2 / JAW Type 1 (49mm) on BASE Type 2

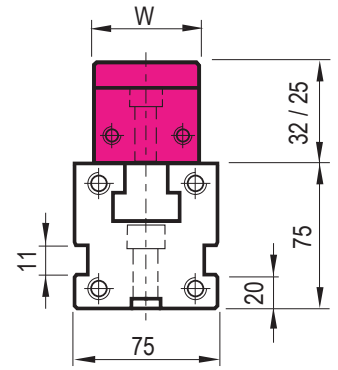
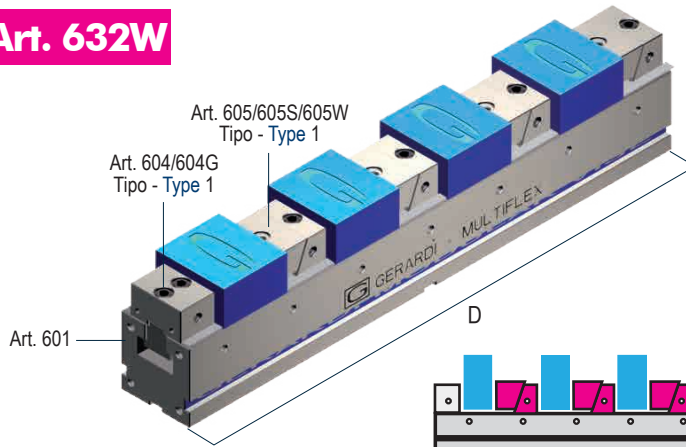
Art. 632

Art. 632W

Art. 632S

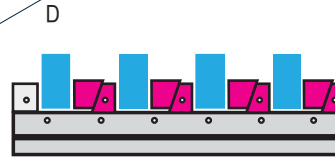
Ogni morsa è completa di 1 ganascia fissa, 4 ganasce fisse-mobili

Each vise is supplied with 1 fixed jaw and 4 fixed-movable jaws



Ganascia tipo 1 ⇒ Base tipo 2

Jaw type 1 ⇒ Base type 2



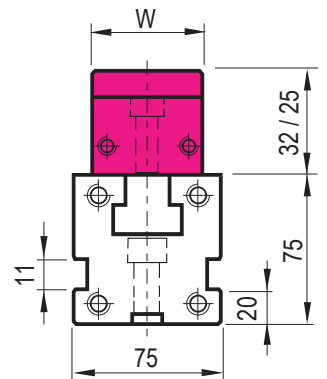
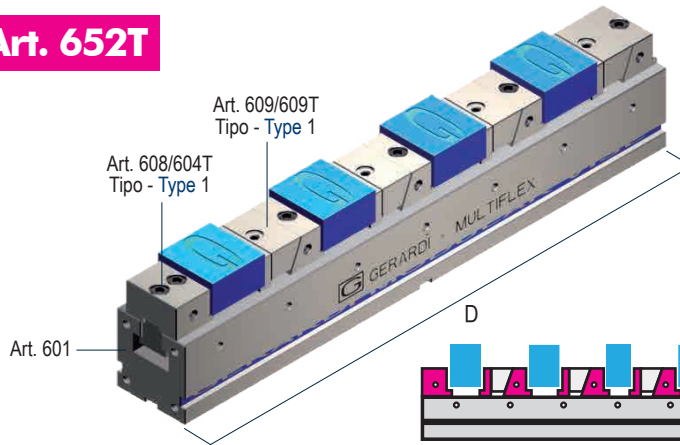
Per particolari in appoggio sulla base
For workpieces clamped directly on vise base

Art. 652

Art. 652T

Ogni morsa è completa di 1 ganascia fissa, 4 ganasce fisse-mobili

Each vise is supplied with 1 fixed jaw and 4 fixed-movable jaws



Ganascia tipo 1 ⇒ Base tipo 2

Jaw type 1 ⇒ Base type 2

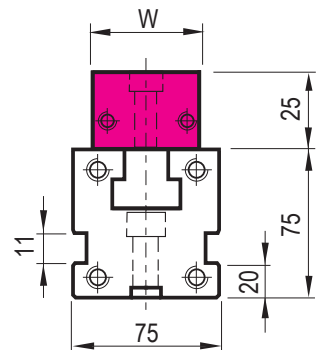
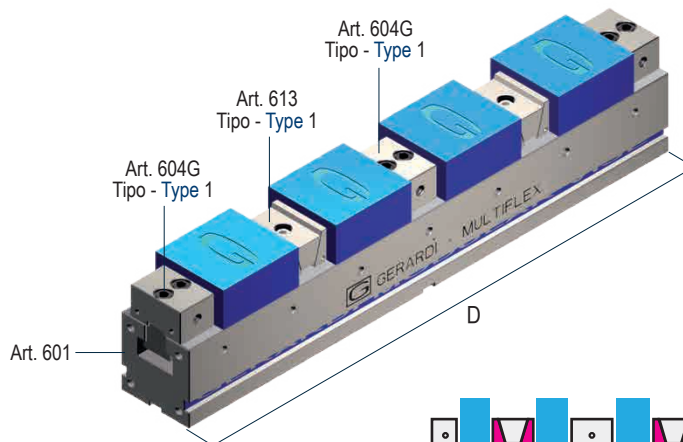


Per particolari sollevati per forature passanti
Rised workpieces for drill through holes

Art. 692

Ogni morsa è completa di 3 ganasce fisse, 2 ganasce mobili di spinta

Each vise is supplied with 3 fixed jaws and 2 clamping movable jaws



Ganascia tipo 1 ⇒ Base tipo 2

Jaw type 1 ⇒ Base type 2



Per particolari in appoggio oppure sollevati con parallele
For workpieces on vise base or rised up with parallels

QUICK GUIDE

 For the proper Multiflex vise choice according to your specific application

	kN	GANASCIA Tipo 1 - / JAW Type 1					
		20 kN					
	D	400	500	600	700	800	900
Apertura max in relazione al numero dei particolari Max opening according to workpieces to be clamped	1 pezzo / piece	304	404	504	604	704	804
	2 pezzi / pieces	123	173	223	273	323	373
	3 pezzi / pieces	62,7	96	129,3	162,7	196	229,3
	4 pezzi / pieces	32,5	57,5	82,5	107,5	132,5	157,5
	5 pezzi / pieces	14,4	34,4	54,4	74,4	94,4	114,4
	6 pezzi / pieces	2,3	19	35,7	52,3	69	85,7
	7 pezzi / pieces	-	8	22,3	36,6	50,9	65,1
	8 pezzi / pieces	-	-	12,3	24,8	37,3	49,8
	9 pezzi / pieces	-	-	4,4	15,6	26,7	37,8
	10 pezzi / pieces	-	-	-	8,2	18,2	28,2
	11 pezzi / pieces	-	-	-	2,2	11,3	20,4
	12 pezzi / pieces	-	-	-	-	5,5	13,8
	13 pezzi / pieces	-	-	-	-	11,3	8,3
	Cod. Art. 632	6.63.21400	6.63.21500	6.63.21600	6.63.21700	6.63.21800	6.63.21900
	Cod. Art. 632S	6.63.2S140	6.63.2S150	6.63.2S160	6.63.2S170	6.63.2S180	6.63.2S190
	Cod. Art. 632W	6.63.2W140	6.63.2W150	6.63.2W160	6.63.2W170	6.63.2W180	6.63.2W190

	D	400	500	600	700	800	900
2 pezzi / pieces	115	165	215	265	315	365	
3 pezzi / pieces	54,7	88	121,3	154,7	188	221,3	
4 pezzi / pieces	24,5	49,5	74,5	99,5	124,5	149,5	
5 pezzi / pieces	6,4	26,4	46,4	66,4	86,4	106,4	
6 pezzi / pieces	-	11	27,7	44,3	61	77,7	
7 pezzi / pieces	-	-	14,3	28,6	42,9	57,1	
8 pezzi / pieces	-	-	4,3	16,8	29,3	41,8	
9 pezzi / pieces	-	-	-	7,6	18,7	29,8	
10 pezzi / pieces	-	-	-	0,2	10,2	20,2	
11 pezzi / pieces	-	-	-	-	3,3	12,4	
12 pezzi / pieces	-	-	-	-	-	5,8	
	Cod. Art. 652	6.65.21400	6.65.21500	6.65.21600	6.65.21700	6.65.21800	6.65.21900
	Cod. Art. 652T	6.65.2T140	6.65.2T150	6.65.2T160	6.65.2T170	6.65.2T180	6.65.2T190

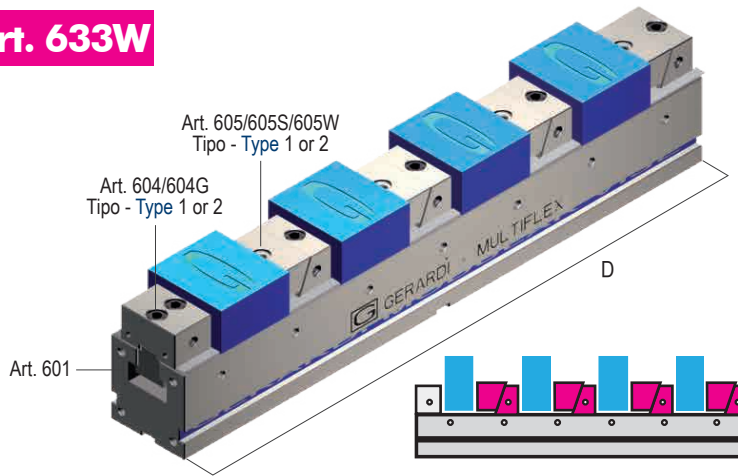
	D	400	500	600	700	800	900
2 pezzi / pieces	138,5	188,5	238,5	288,5	338,5	388,5	
3 pezzi / pieces	64	97,3	130,7	164	197,3	230,7	
4 pezzi / pieces	48	73	98	123	148	173	
5 pezzi / pieces	21,4	41,4	61,4	81,4	101,4	121,4	
6 pezzi / pieces	17,8	34,5	51,2	67,8	84,5	101,2	
7 pezzi / pieces	3,1	17,4	31,7	46	60,3	74,6	
8 pezzi / pieces	2,8	15,3	27,8	40,3	52,8	65,3	
9 pezzi / pieces	-	4,1	15,2	26,3	37,4	48,6	
10 pezzi / pieces	-	3,7	13,7	23,7	33,7	43,7	
11 pezzi / pieces	-	-	4,7	13,8	22,9	32	
12 pezzi / pieces	-	-	4,3	12,7	21	29,3	
13 pezzi / pieces	-	-	-	5,2	12,8	20,5	
14 pezzi / pieces	-	-	-	1,4	8,6	15,7	
15 pezzi / pieces	-	-	-	-	5,5	12,1	
16 pezzi / pieces	-	-	-	-	2,2	8,4	
17 pezzi / pieces	-	-	-	-	-	5,7	
	Cod.	6.69.21400	6.69.21500	6.69.21600	6.69.21700	6.69.21800	6.69.21900

GUIDA RAPIDA

Per la scelta della morsa Multiflex più adatta alle vostre esigenze

GANASCIA Tipo 1 o Tipo 2 (49 o 74mm) su BASE Tipo 3 / JAW Type 1 or Type 2 (49 o 74mm) on BASE Type 3
Art. 633
Art. 633W
Art. 633S

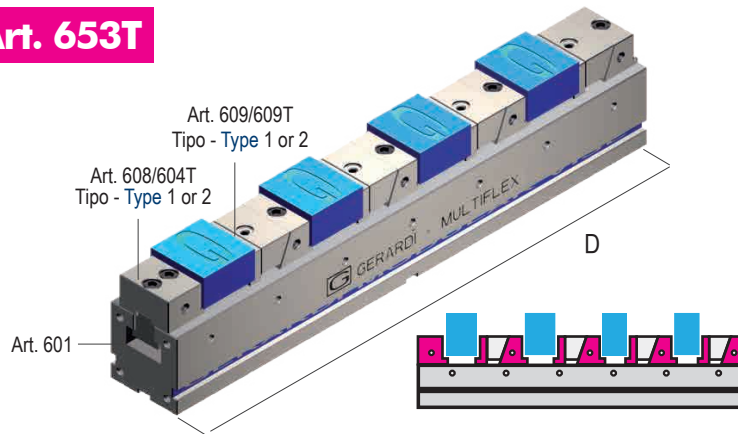
 Ogni morsa è completa di
 1 ganascia fissa,
 4 ganasce fisse-mobili

 Each vise is supplied with
 1 fixed jaw and
 4 fixed-movable jaws

Ganascia tipo 1 o 2 ⇒ Base tipo 3
Jaw type 1 or 2 ⇒ Base type 3

 Per particolari in appoggio sulla base
 For workpieces clamped directly on vise base

Art. 653
Art. 653T

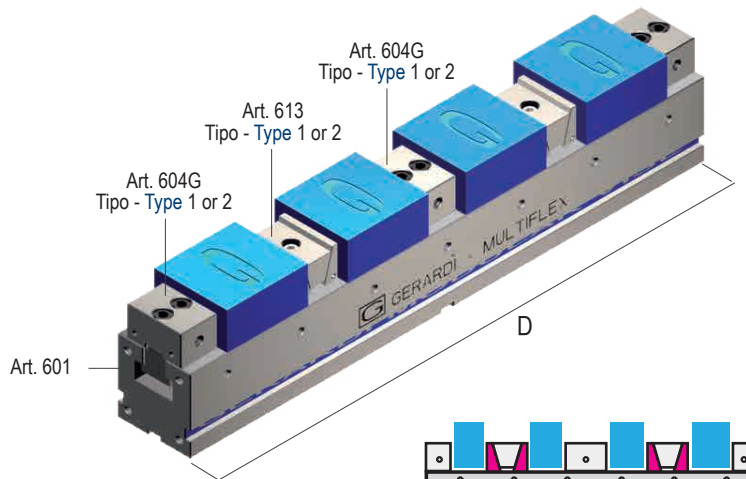
 Ogni morsa è completa di
 1 ganascia fissa,
 4 ganasce fisse-mobili

 Each vise is supplied with
 1 fixed jaw and
 4 fixed-movable jaws

Ganascia tipo 1 o 2 ⇒ Base tipo 3
Jaw type 1 or 2 ⇒ Base type 3

 Per particolari sollevati per forature passanti
 Rised workpieces for drill through holes

Art. 693

 Ogni morsa è completa di
 3 ganasce fisse,
 2 ganasce mobili di spinta

 Each vise is supplied with
 3 fixed jaws
 and 2 clamping movable jaws

Ganascia tipo 1 o 2 ⇒ Base tipo 3
Jaw type 1 or 2 ⇒ Base type 3

 Per particolari in appoggio oppure sollevati con parallele
 For workpieces on vise base or rised up with parallels

QUICK GUIDE

For the proper Multiflex vise choice according to your specific application

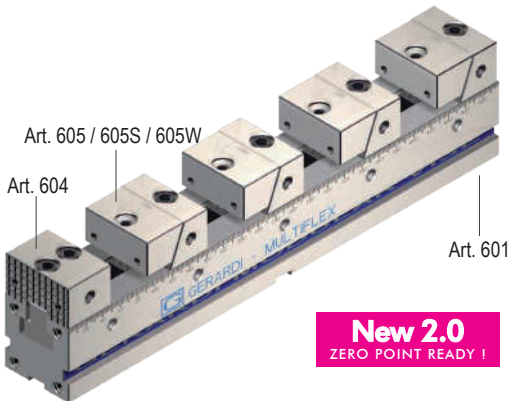
kN	GANASCIA Tipo 1 - / JAW Type 1				GANASCIA Tipo 2 - / JAW Type 2			
	20 kN				30 kN			
D	700	800	900	1000	700	800	900	1000
W	49				74			
1 pezzo / piece	606	706	806	906	578	678	778	878
2 pezzi / pieces	275	325	375	425	253	303	353	403
3 pezzi / pieces	164,7	198	231,3	264,7	144,7	178	211,3	244,7
4 pezzi / pieces	109,5	134,5	159,5	184,5	90,5	115,5	140,5	165,5
5 pezzi / pieces	76,4	96,4	116,4	136,4	58	78	98	118
6 pezzi / pieces	54,3	71	87,7	104,3	36,3	53	69,7	86,3
7 pezzi / pieces	38,6	52,9	67,1	81,4	20,9	35	49,4	63,7
8 pezzi / pieces	26,8	39,3	51,8	64,3	9,3	21,8	34,3	46,8
9 pezzi / pieces	17,6	28,7	39,8	50,9	-	11,3	22,4	33,6
10 pezzi / pieces	10,2	20,2	30,2	40,2	-	3	13	23
11 pezzi / pieces	4,2	13,3	22,4	31,5	-	-	5,3	14,4
12 pezzi / pieces	-	7,5	15,8	24,2	-	-	-	7,2
13 pezzi / pieces	-	2,6	10,3	18	-	-	-	-
14 pezzi / pieces	-	-	5,6	12,7	-	-	-	-
15 pezzi / pieces	-	-	1,5	8,1	-	-	-	-
Cod. Art. 633	6.63.31700	6.63.31800	6.63.31900	6.63.31100	6.63.32700	6.63.32800	6.63.32900	6.63.32100
Cod. Art. 633S	6.63.3S170	6.63.3S180	6.63.3S190	6.63.3S110	6.63.3S270	6.63.3S280	6.63.3S290	6.63.3S210
Cod. Art. 633W	6.63.3W170	6.63.3W180	6.63.3W190	6.63.3W110	6.63.3W270	6.63.3W280	6.63.3W290	6.63.3W210

D	700	800	900	1000	700	800	900	1000
W	49				74			
1 pezzo / piece	596	696	796	896	565	665	765	865
2 pezzi / pieces	265	315	365	415	240	290	340	390
3 pezzi / pieces	154,7	188	221,3	254,7	131,7	165	198,3	231,7
4 pezzi / pieces	99,5	124,5	149,5	174,5	77,5	102,5	127,5	152,5
5 pezzi / pieces	66,4	86,4	106,4	126,4	45	65	85	105
6 pezzi / pieces	44,3	61	77,7	94,3	23,3	40	56,7	73,3
7 pezzi / pieces	28,6	42,9	57,1	71,4	7,9	22,1	36,4	50,7
8 pezzi / pieces	16,8	29,3	41,8	54,3	-	8,8	21,3	33,8
9 pezzi / pieces	7,6	18,7	29,8	40,9	-	-	9,4	20,6
10 pezzi / pieces	-	10,2	20,2	30,2	-	-	-	10
11 pezzi / pieces	-	3,3	12,4	21,5	-	-	-	-
12 pezzi / pieces	-	-	5,8	14,2	-	-	-	-
13 pezzi / pieces	-	-	-	8	-	-	-	-
Cod. Art. 653	6.65.31700	6.65.31800	6.65.31900	6.65.31100	6.65.32700	6.65.32800	6.65.32900	6.65.32100
Cod. Art. 653T	6.65.3T170	6.65.3T180	6.65.3T190	6.65.3T110	6.65.3T270	6.65.3T280	6.65.3T290	6.65.3T210

D	700	800	900	1000	700	800	900	1000
W	49				74			
1 pezzo / piece	577	677	777	877	545	645	745	845
2 pezzi / pieces	288,5	338,5	388,5	438,5	272	322,5	372,5	422,5
3 pezzi / pieces	164	197,3	230,7	264	146,7	180	213	246,7
4 pezzi / pieces	123	148	123	198	110	135	160	185
5 pezzi / pieces	81,4	101,4	121,4	141,4	67	87	107	127
6 pezzi / pieces	67,8	84,5	101,2	117,8	55,8	72,5	89,2	105,8
7 pezzi / pieces	46	60,3	74,6	88,9	32,9	47,1	61,4	75,7
8 pezzi / pieces	40,3	52,8	65,3	77,8	28,8	41,3	53,8	66,3
9 pezzi / pieces	26,3	37,4	48,6	59,7	13,9	25	36,1	47,2
10 pezzi / pieces	23,7	33,7	43,7	53,7	12,5	22,5	32,5	42,5
11 pezzi / pieces	13,8	22,9	32	41,1	-	10,9	20	29,1
12 pezzi / pieces	12,7	21	29,3	37,7	-	10	18,3	26,7
13 pezzi / pieces	5,2	12,8	20,5	28,2	-	-	8,8	16,5
14 pezzi / pieces	1,4	8,6	15,7	22,9	-	-	4,3	11,4
15 pezzi / pieces	-	5,5	12,1	18,8	-	-	-	7,3
16 pezzi / pieces	-	2,2	8,4	14,7	-	-	-	3,4
17 pezzi / pieces	-	-	5,7	11,6	-	-	-	-
18 pezzi / pieces	-	-	-	8,3	-	-	-	-
19 pezzi / pieces	-	-	-	5,9	-	-	-	-
Cod.	6.69.31700	6.69.31800	6.69.31900	6.69.31100	6.69.32700	6.69.32800	6.69.32900	6.69.32100

Tipo (grandezza) morsa / Vise type (size)

- Art.600** Morsa con ganasce lisce (Art. 605)
Vise with smooth jaws (Art. 605)
- Art.600S** Con ganasce zigrinate (Art. 605S)
With serrated jaws (Art. 605S)
- Art.600W** Con ganasce mobili lisce e fisse zigrinate (Art.605W)
With smooth movable jaw and fixed serrated jaws (Art.605W)



Per particolari in appoggio sulla base
For workpieces clamped directly on vise base

kN	1				
	20 kN				
A	4 x 8mm	4 x 33	4 x 58	4 x 83	4 x 108
B	32 / 25				
C ⁰ / _{-0,02}	50				
D ⁰ / _{-0,05}	300	400	500	600	700
G ⁰ / _{-0,02}	50				
J	38				
J1	55 / 58				
I	10				
F	15				
W	49				
ØP	9				
Q ^{±0,02}	100 / 200	100 / 200	200	300	400
kg	7,2	8,7	10,1	11,6	13
Cod. Art. 600	6.60.01300	6.60.01400	6.60.01500	6.60.01600	6.60.01700
Cod. Art. 600S	6.60.0S130	6.60.0S140	6.60.0S150	6.60.0S160	6.60.0S170
Cod. Art. 600W	6.60.0W130	6.60.0W140	6.60.0W150	6.60.0W160	6.60.0W170
€	1.204	1.308	1.425	1.553	1.736

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !
Art. 604*

Ganascia fissa (1 lato liscia, 1 lato zigrinato)
Fixed jaw (1 side smooth, 1 side serrated)



Cod. 6.60.41000

€ 105

* Arresto laterale a richiesta - Workstop on request

Art. 605*

Ganascia mobile e fissa liscia
Fixed and movable smooth jaws


Art. 605S*

Ganascia mobile e fissa zigrinata
Fixed and movable serrated jaws



Cod. Art.605 6.60.51000

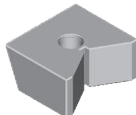
Cod. Art.605S 6.60.5S100

€ 162

* Arresto laterale a richiesta - Workstop on request

Art. 605L

Cuneo di spinta a "V"
"V" clamping wedge

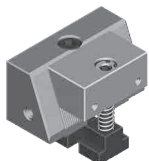


Cod. 6.60.5L100

€ 203

Art. 615*

Ganascia con cuneo di posizionamento maggiorato
Jaw with bigger positioning wedge
(increased with respect to standard dimensions)



Cod. 6.61.51000

€ 180

* Arresto laterale a richiesta - Workstop on request

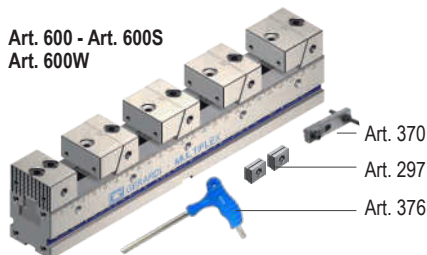
Art. 600
Art. 600S
Art. 600W

Dotazione standard:

- 4 arresti laterali Art. 370
- 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
- 1 chiave a T Art. 376

Extra per ogni foro aggiuntivo per Zero Point - MAN-010-FMS : euro 110,00

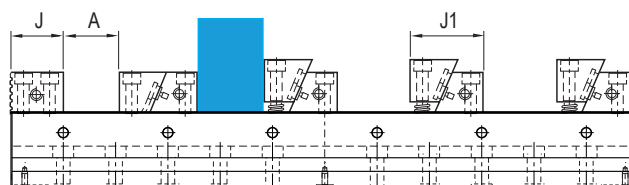
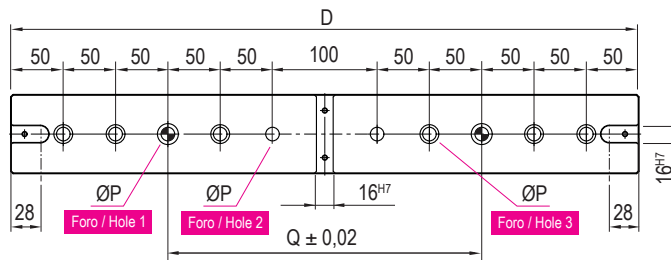
Art. 600 - Art. 600S
Art. 600W



Standard equipment:

- 4 workstops Art. 370
- 1 pair of positioning key-nuts for 16 mm slot Art. 297
- 1 T-wrench Art. 376

Extra charge for each hole for Zero Point - MAN-010-FMS : euro 110,00



Fori per Zero Point Holes for Zero Point	Foro - Hole 1
Fori per fissaggio morsa Holes for vise clamping	Foro - Hole 2
	Foro - Hole 3

Vedi Pag - See Page 6.30

	2 30 kN						3 40 kN			
	4 x 12mm	4 x 37	4 x 62	4 x 87	4 x 112	4x137	4 x 59	4 x 84	4 x 109	4 x 134
A										
B				40					60	
C ⁰ _{-0,02}				75					100	
D ⁰ _{-0,05}	400	500	600	700	800	900	700	800	900	1000
G ⁰ _{-0,02}				75					100	
J				50					70	
J1				70 / 75					94,5 / 98,5	
I				11					12	
F				20					20	
W				74					99	
P				13					17	
Q ^{±0,02}	200 / 300	200	300	400	400 / 500	300 / 400 / 500	400	400 / 500	400 / 500	400 / 500
kg	22,45	25,95	29,45	32,95	36,4	39,9	65,1	70,6	77,6	83,3
Cod. Art. 600	6.60.02400	6.60.02500	6.60.02600	6.60.02700	6.60.02800	6.60.02900	6.60.03700	6.60.03800	6.60.03900	6.60.03100
Cod. Art. 600S	6.60.0S240	6.60.0S250	6.60.0S260	6.60.0S270	6.60.0S280	6.60.0S290	6.60.0S370	6.60.0S380	6.60.0S390	6.60.0S310
Cod. Art. 600W	6.60.0W240	6.60.0W250	6.60.0W260	6.60.0W270	6.60.0W280	6.60.0W290	6.60.0W370	6.60.0W380	6.60.0W390	6.60.0W310
€	1.566	1.681	1.811	1.940	2.114	2.302	2.244	2.428	2.619	2.869

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

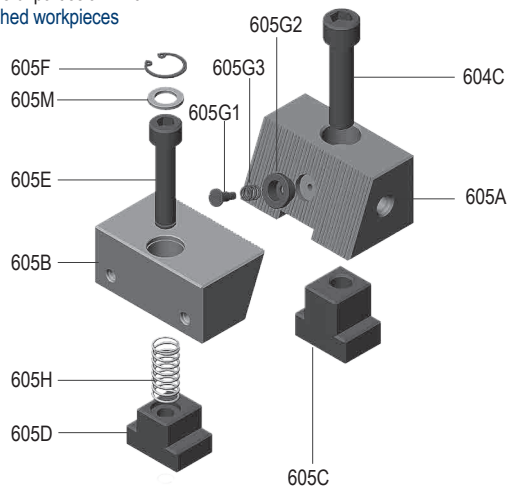
Cod.	6.60.42000	6.60.43000
€	122	140

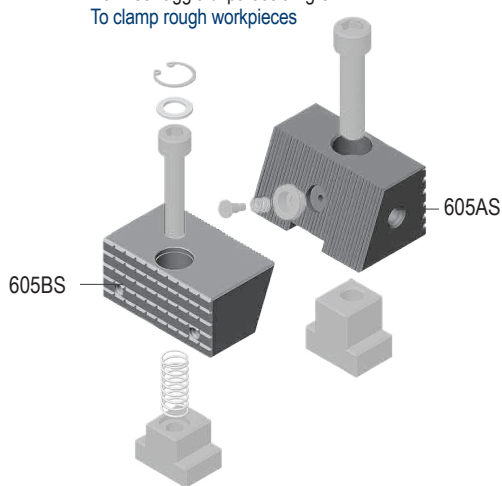
Cod. Art.605	6.60.52000	6.60.53000
Cod. Art.605S	6.60.5S200	6.60.5S300
€	188	215

Cod.	6.60.5L200	6.60.5L300
€	231	254

Cod.	6.61.52000	6.61.53000
€	206	251

Art. 605
**GANASCIA LISCIA
JAW PLATE**

 Per il serraggio di particolari finiti
 To clamp finished workpieces

Art. 605S
**GANASCIA ZIGRINATA
SERRATED JAW**

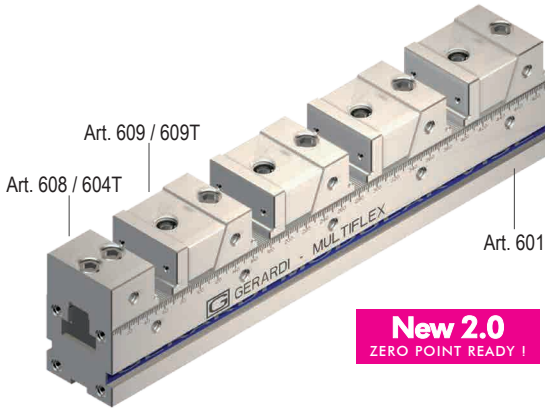
 Per il serraggio di particolari grezzi
 To clamp rough workpieces


Art.	Pag.
601	6.30
604	6.32
605	6.33
605S	6.33
605A	6.35
605AS	6.35
605B	6.35
605BS	6.35
604C	6.35
605C	6.35
605D	6.35
605E	6.35
605F	6.35
605G1	6.35
605G2	6.35
605G3	6.35
605H	6.35
605M	6.35

Tipo (grandezza) morsa / Vise type (size)
Art.606

 Morsa con ganasce a gradino (Art. 609)
 Vise with step jaws (Art. 609)

Art.606T

 Morsa con ganascia **GRIP** (Art. 609T)
 Vise with **GRIP** jaws (Art. 609T)


kN	1				
	20 kN				
A (606)	3 x 19mm*	4 x 23	4 x 48	4 x 73	4 x 97
A1 (606T)	3 x 15,3mm	4 x 18,8	4 x 43,8	4 x 68,8	4 x 93,8
B			32 / 25		
C $\begin{matrix} 0 \\ -0,02 \end{matrix}$			50		
D $\begin{matrix} 0 \\ -0,05 \end{matrix}$	300	400	500	600	700
G $\begin{matrix} 0 \\ -0,02 \end{matrix}$			50		
J			38		
J1			65 / 68		
I			10		
F			15		
W			49		
ØP			9		
Q $\pm 0,02$	100 / 200	100 / 200	200	300	400
kg	7,25	8,8	10,2	11,7	13,15
Cod. Art. 606	6.60.61300	6.60.61400	6.60.61500	6.60.61600	6.60.61700
Cod. Art. 606T	6.60.6T130	6.60.6T140	6.60.6T150	6.60.6T160	6.60.6T170
€	1.822	1.898	2.013	2.141	2.327

 Per particolari sollevati per forature passanti
 Rised workpieces for drill through holes

* Solo tipo 1 x 300 e 2 x 400 n. 3 ganasce fisse-mobili in dotazione

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !
Art. 609*

 Ganascia fissa e mobile con gradino
 Fixed and moving jaw with step


Cod. 6.60.91000

€ 298

* Arresto laterale a richiesta - Workstop on request

Art. 610B

Piastra ganascia lavorabile / Soft jaw plate



Cod. Art. 610B 6.61.0B100

€ 34

Art. 610C

Piastra ganascia liscia / Smooth jaw plate



Cod. Art. 610C 6.61.0C100

€ 28

Art. 610D

Piastra ganascia zigrinata / Serrated jaw plate



Cod. Art. 610D 6.61.0D100

€ 34

Art. 610E

Piastra ganascia parallela / Parallel jaw plate



Cod. Art. 610E 6.61.0E100

€ 28

Art. 610F

Piastra ganascia prismatica / Prismatic jaw plate



Cod. Art. 610F 6.61.0F100

€ 34

Piastrine Art.610B - 610C - 610D - 610E - 610F dimensioni come pagina 6.36 - Jaw plates Art.610B - 610C - 610E - 610F dimensions as page 6.36

Art. 609T*

 Ganascia fissa e mobile con piastra ganascia **GRIP a forte serraggio**
 Fixed and moving jaw with **GRIP** jaw-plates for strongest clamping


Cod. 6.60.9T100

€ 298

* Arresto laterale a richiesta - Workstop on request

Art. 606
Art. 606T

Dotazione standard:

- 4 arresti laterali Art. 370
- 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
- 1 chiave a T Art. 376

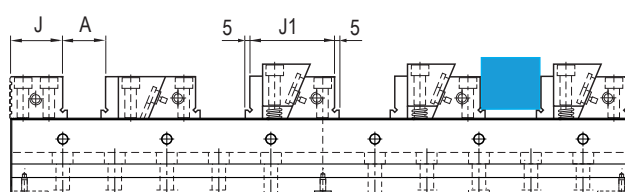
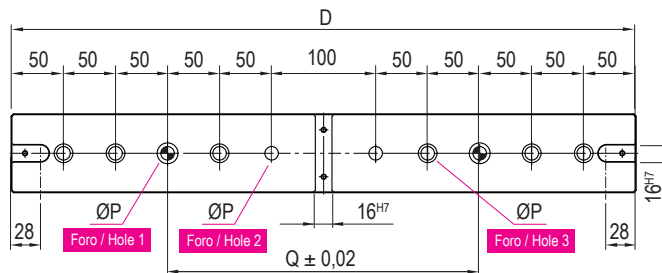
Extra per ogni foro aggiuntivo per Zero Point - MAN-010-FMS : euro 110,00

Art. 606 - Art. 606T


Standard equipment:

- 4 workstops Art. 370
- 1 pair of positioning key-nuts for 16 mm slot Art. 297
- 1 T-wrench Art. 376

Extra charge for each hole for Zero Point - MAN-010-FMS : euro 110,00



Fori per Zero Point Holes for Zero Point	Foro - Hole 1
Fori per fissaggio morsa Holes for vise clamping	Foro - Hole 2
	Foro - Hole 3

Vedi Pag - See Page 6.30

	2 30 kN						3 40 kN			
A (606)	3 x 31mm*	4 x 27	4 x 52	4 x 77	4 x 102	4 x 127	4 x 44	4 x 69	4 x 94	4 x 119
A1 (609T)	3 x 28mm	4 x 24	4 x 49	4 x 74	4 x 99	4 x 124	4 x 41,5	4 x 66,5	4 x 91,5	4 x 116,5
B	40						60			
C ⁰ _{-0,02}	75						100			
D ⁰ _{-0,05}	400	500	600	700	800	900	700	800	900	1000
G ⁰ _{-0,02}	75						100			
J	50						70			
J1	83 / 88						113 / 119			
I	11						12			
F	20						20			
W	74						99			
P	13						17			
Q ^{±0,02}	200 / 300	200	300	400	400 / 500	300 / 400 / 500	400	400 / 500	400 / 500	400 / 500
kg	21,9	25,4	28,9	32,4	38,1	41,6	68,3	73,8	81	86,5
Cod. Art. 606	6.60.62400	6.60.62500	6.60.62600	6.60.62700	6.60.62800	6.60.62900	6.60.63700	6.60.63800	6.60.63900	6.60.63100
Cod. Art. 606T	6.60.6T240	6.60.6T250	6.60.6T260	6.60.6T270	6.60.6T280	6.60.6T290	6.60.6T370	6.60.6T380	6.60.6T390	6.60.6T310
€	2.266	2.386	2.517	2.647	2.832	3.021	3.057	3.245	3.431	3.682

* Only type 1 x 300 and 2 x 400 n. 3 fixed-movable jaws included

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

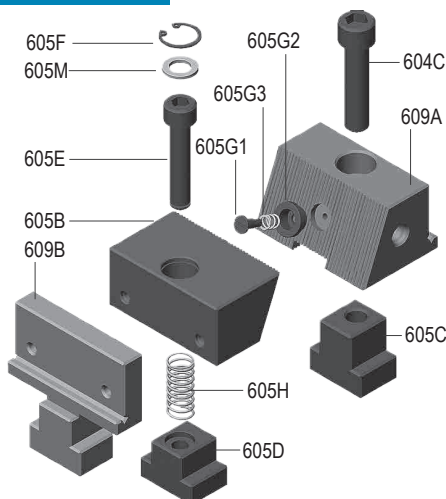
Cod.	6.60.92000	6.60.93000
€	352	401

Cod. Art. 610B	6.61.0B200	6.61.0B300
€	40	46
Cod. Art. 610C	6.61.0C200	6.61.0C300
€	34	40
Cod. Art. 610D	6.61.0D200	6.61.0D300
€	40	46
Cod. Art. 610E	6.61.0E200	6.61.0E300
€	34	40
Cod. Art. 610F	6.61.0F200	6.61.0F300
€	40	46

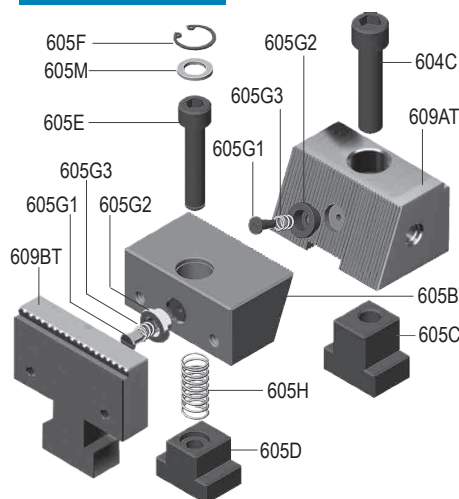
Piastrine Art.610B - 610C - 610D - 610E - 610F dimensioni come pagina 6.36 - Jaw plates Art.610B - 610C - 610E - 610F dimensions as page 6.36

Cod.	6.60.9T200	6.60.9T300
€	352	401

Art. 609

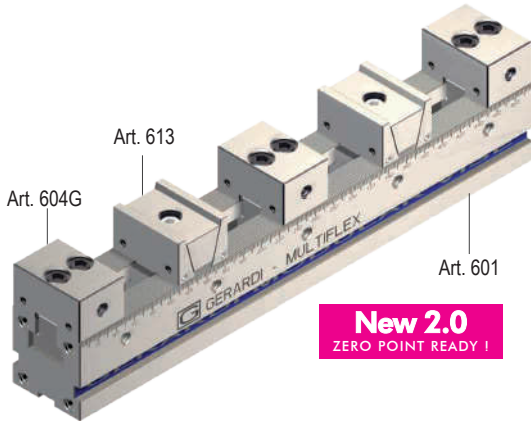


Art. 609T



Art.	Pag.	Art.	Pag.
601	6.30	605G3	6.35
604C	6.35	605H	6.35
604T	6.32	605M	6.35
605B	6.35	608	6.32
605BT	6.36	609A	6.36
605C		609	6.16
605D		609B	6.36
605E	6.35	609AT	6.36
605F		609BT	6.36
605G1		609T	6.16
605G2			

Tipo (grandezza) morsa / Vise type (size)
Art.611

 Morsa con ganasce doppie (Art. 613)
 Vise with double clamping jaws (Art. 613)


kN	1				
	20 kN				
A	4 x 21mm	4 x 46	4 x 71	4 x 94	4 x 121
B	25				
C $0_{-0,02}$	50				
D $0_{-0,05}$	300	400	500	600	700
G $0_{-0,02}$	50				
J	38				
J1	44 / 50				
I	10				
F	15				
W	49				
ØP	9				
Q $\pm 0,02$	100 / 200	100 / 200	200	300	400
kg	6,6	8,1	9,5	11	12,5
Cod.	6.61.11300	6.61.11400	6.61.11500	6.61.11600	6.61.11700
€	1.822	1.898	2.013	2.130	2.327

 Per particolari in appoggio oppure sollevati con parallele
 For workpieces on vise base or rised up with parallels

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !
Art. 604G*

 Ganasca fissa liscia da entrambi i lati
 Fixed smooth jaws both sides

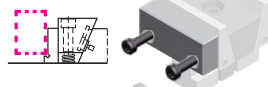

Cod. 6.60.4G100

€ 105

* Arresto laterale a richiesta - Workstop on request

Art. 610B

Piastra ganascia lavorabile / Soft jaw plate



Cod. Art. 610B 6.61.0B100

€ 34

Art. 610C

Piastra ganascia liscia / Smooth jaw plate



Cod. Art. 610C 6.61.0C100

€ 28

Art. 610D

Piastra ganascia zigrinata / Serrated jaw plate



Cod. Art. 610D 6.61.0D100

€ 34

Art. 610E

Piastra ganascia parallela / Parallel jaw plate



Cod. Art. 610E 6.61.0E100

€ 28

Art. 610F

Piastra ganascia prismatica / Prismatic jaw plate

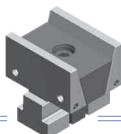


Cod. Art. 610F 6.61.0F100

€ 34

Piastrine Art.610B - 610C - 610D - 610E - 610F dimensioni come pagina 6.36 - Jaw plates Art.610B - 610C - 610E - 610F dimensions as page 6.36

Art. 613

 Ganasca mobile doppia di spinta
 Double clamping movable jaws


Cod. 6.61.31000

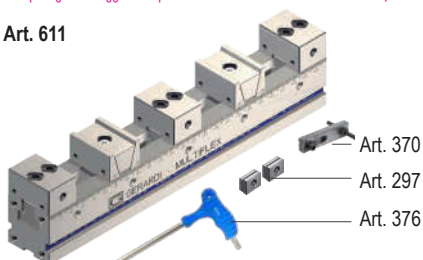
€ 503

Art. 611

Dotazione standard:

- 4 arresti laterali Art. 370
- 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
- 1 chiave a T Art. 376

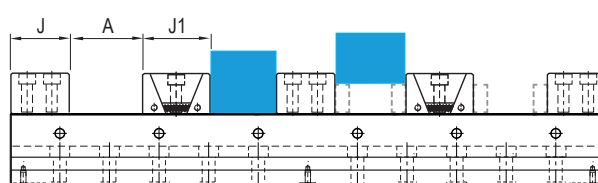
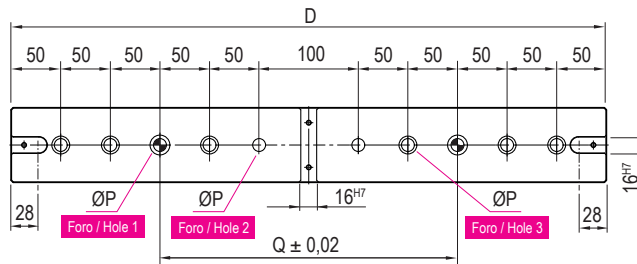
Extra per ogni foro aggiuntivo per Zero Point - MAN-010-FMS - euro 110,00

Art. 611


Standard equipment:

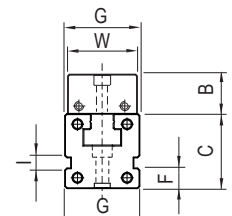
- 4 workstops Art. 370
- 1 pair of positioning key-nuts for 16 mm slot Art. 297
- 1 T-wrench Art. 376

Extra charge for each hole for Zero Point: € 104,00


 Compatibilità con Zero Point
 Compatibility with Zero Point

Fori per Zero Point Holes for Zero Point	Foro - Hole 1
Fori per fissaggio morsa Holes for vise clamping	Foro - Hole 2
	Foro - Hole 3

Vedi Pag - See Page 6.30



	2 30 kN						3 40 kN			
A	4 x 34	4 x 59	4 x 84	4 x 109	4 x 134	4x159	4 x 77	4 x 102	4 x 127	4 x 152
B	40						60			
C ⁰ _{-0,02}	75						100			
D ⁰ _{-0,05}	400	500	600	700	800	900	700	800	900	1000
G ⁰ _{-0,02}	75						100			
J	50						70			
J1	52 / 58						84 / 90			
I	11						12			
F	20						20			
W	74						99			
ØP	13						17			
Q ^{±0,02}	200 / 300	200	300	400	400 / 500	300 / 400 / 500	400	400 / 500	400 / 500	400 / 500
kg	20,79	24,29	27,79	31,29	34,8	38,3	63	68,5	74	79,5
Cod. Art. 606	6.61.12400	6.61.12500	6.61.12600	6.61.12700	6.61.12800	6.61.12900	6.61.13700	6.61.13800	6.61.13900	6.61.13100
€	2.266	2.386	2.517	2.647	2.832	3.021	3.057	3.245	3.431	3.682

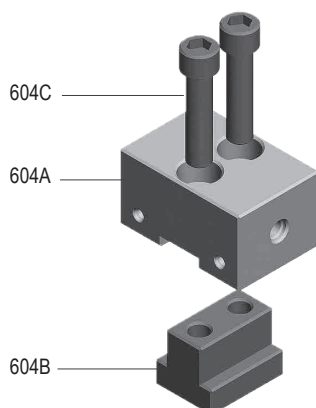
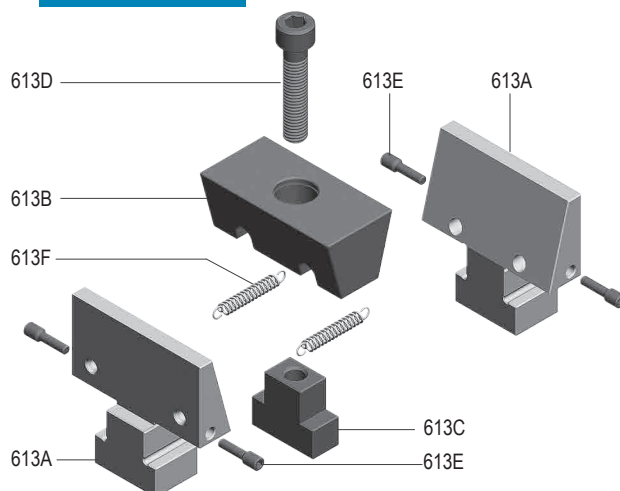
UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Cod.	6.60.4G200	6.60.4G300
€	122	140

Cod. Art. 610B	6.61.0B200	6.61.0B300
€	40	46
Cod. Art. 610C	6.61.0C200	6.61.0C300
€	34	40
Cod. Art. 610D	6.61.0D200	6.61.0D300
€	40	46
Cod. Art. 610E	6.61.0E200	6.61.0E300
€	34	40
Cod. Art. 610F	6.61.0F200	6.61.0F300
€	40	46

Piastrine Art.610B - 610C - 610D - 610E - 610F dimensioni come pagina 6.36 - Jaw plates Art.610B - 610C - 610E - 610F dimensions as page 6.36

Cod.	6.61.32000	6.61.33000
€	601	699

Art. 604G
**GANASCIA FISSA
FIXED JAW**

Art. 613
**GANASCIA DOPPIA
DOUBLE JAW**


Art.	Pag.
601	6.30
604A	6.35
604B	6.35
604C	6.35
604G	6.32
613	6.34
613A	6.37
613B	6.37
613C	6.37
613D	6.37
613E	6.37
613F	6.37

GANASCE TIPO 1 ⇒ BASE TIPO 2

JAWS TYPE 1 ⇒ BASE TYPE 2

Art. 632

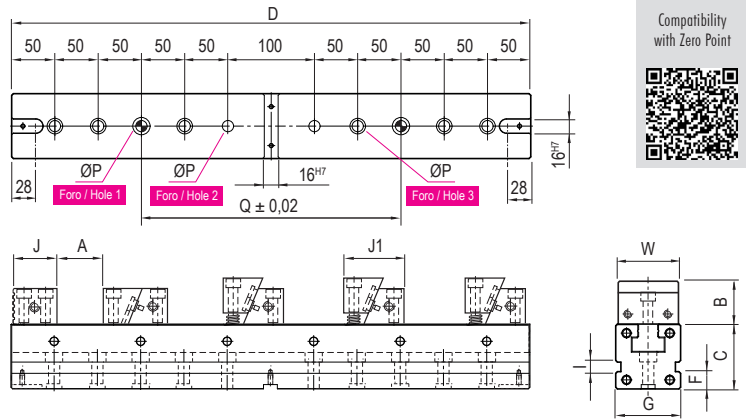
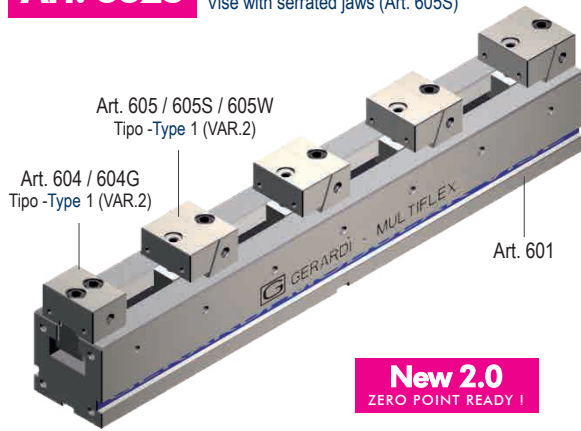
Morsa con ganasce lisce (Art. 605)
Vise with smooth jaws (Art. 605)

Art. 632S

Morsa con ganasce zigrinate (Art. 605S)
Vise with serrated jaws (Art. 605S)

Art. 632W

Morsa con ganasca mobile liscia e fissa zigrinata (Art. 605W)
Vise with smooth movable jaws and fixed serrated jaws (Art. 605W)



Per particolari in appoggio sulla base
For workpieces clamped directly on vise base

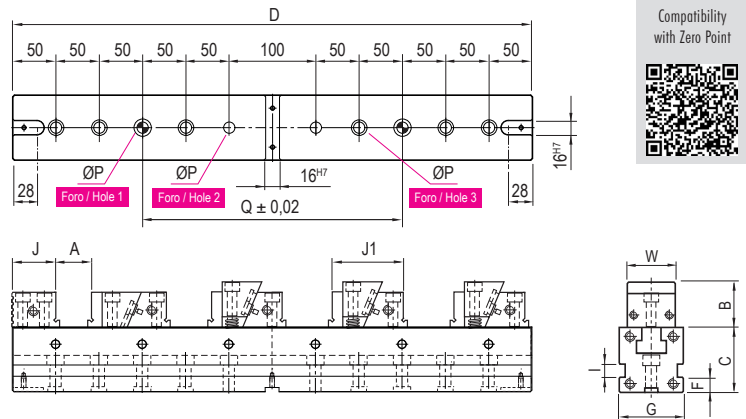
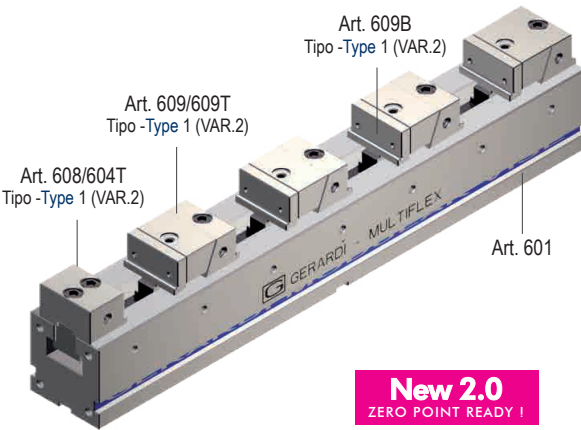
Specificare quota W in fase d'ordine - To be specify the W quote in case of order

Art. 652

Morsa con ganasce a gradino (Art. 609)
Vise with step jaws (Art. 609)

Art. 652T

Morsa con ganasce GRIP (Art. 609T)
Vise with GRIP jaws (Art. 609T)

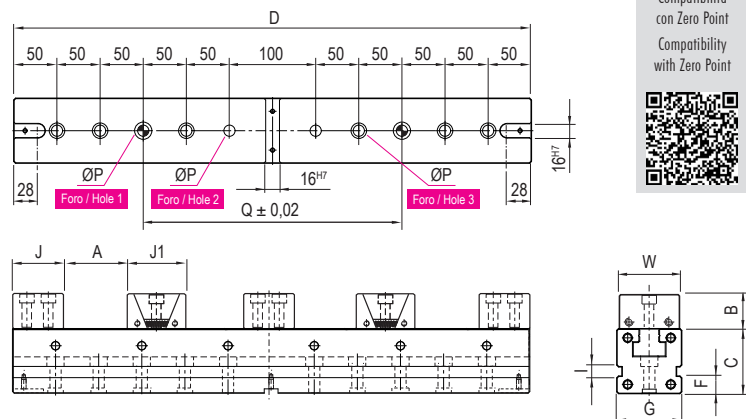
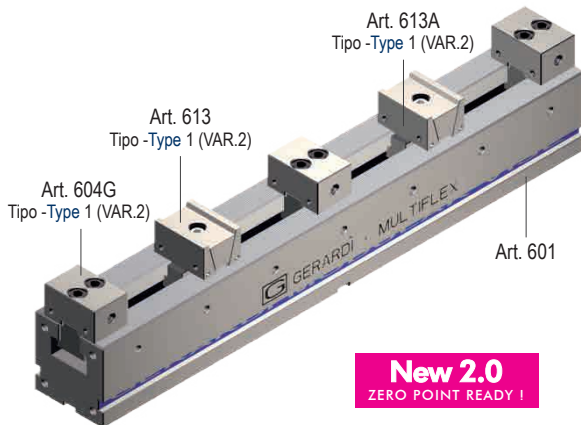


Per particolari sollevati per forature passanti
Rised workpieces for drill through holes

Specificare quota W in fase d'ordine - To be specify the W quote in case of order

Art. 692

Morsa con ganasce doppie (Art. 613)
Vise with double jaws (Art. 613)



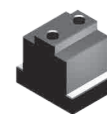
Per particolari in appoggio oppure sollevati con parallele
For workpieces on vise base or rised up with parallels

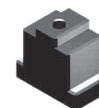
Specificare quota W in fase d'ordine - To be specify the W quote in case of order

1 20 kN						
A	4 x 32,5	4 x 57,5	4 x 82,5	4 x 107,5	4 x 132,5	4 x 157,5
B	32 / 25					
C ^{0 -0,02}	75					
D ^{0 -0,05}	400	500	600	700	800	900
G ^{0 -0,02}	75					
J	38					
J1	55 / 58					
I	11					
F	20					
W	49					
ØP	13					
Q ^{±0,02}	200 / 300	200	300	400	400 / 500	300 / 400 / 500
kg	16,7	20,2	23,7	27,2	30,7	34,2
Cod. Art. 632	6.63.21400	6.63.21500	6.63.21600	6.63.21700	6.63.21800	6.63.21900
Cod. Art. 632S	6.63.2S140	6.63.2S150	6.63.2S160	6.63.2S170	6.63.2S180	6.63.2S190
Cod. Art. 632W	6.63.2W140	6.63.2W150	6.63.2W160	6.63.2W170	6.63.2W180	6.63.2W190
€	1.167	1.256	1.368	1.467	1.605	1.756

Kit trasformazione ganasce
 Jaws transformations kit

Art. 604B T.1 (VAR.2)

 Dado a "T" per ganasce fissa
 "T" nut for fixed jaw

Art. 605C T.1 (VAR.2)

 Dado a "T" per cuneo di posizionamento
 "T" nut for positioning wedge

Art. 605D T.1 (VAR.2)

 Dado a "T" per cuneo di spinta
 "T" nut for clamping wedge


Extra per ogni foro aggiunto per Zero Point - MAN-010-FMS: euro 110,00

Extra charge for each hole for Zero Point - MAN-010-FMS: euro 110,00

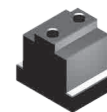
Vedi pag 6.38 - See pag 6.38

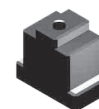
A	4 x 24,5	4 x 49,5	4 x 74,5	4 x 99,5	4 x 124,5	4 x 149,5
B	32 / 25					
C ^{0 -0,02}	75					
D ^{0 -0,05}	400	500	600	700	800	900
G ^{0 -0,02}	75					
J	38					
J1	65 / 68					
F	11					
F	20					
W	49					
ØP	13					
Q ^{±0,02}	200 / 300	200	300	400	400 / 500	300 / 400 / 500
kg	16,8	20,3	23,8	27,3	30,8	34,3
Cod. Art.652	6.65.21400	6.65.21500	6.65.21600	6.65.21700	6.65.21800	6.65.21900
Cod. Art.652T	6.65.2T140	6.65.2T150	6.65.2T160	6.65.2T170	6.65.2T180	6.65.2T190
€	1.643	1.730	1.832	1.944	2.081	2.231

Art. 609B T.1 (VAR.2)

 Ganasce mobile guidata con gradino
 Movable guided jaw with step

Art. 604B T.1 (VAR.2)

 Dado a "T" per ganasce fissa
 "T" nut for fixed jaw

Art. 605C T.1 (VAR.2)

 Dado a "T" per cuneo di posizionamento
 "T" nut for positioning wedge

Art. 605D T.1 (VAR.2)

 Dado a "T" per cuneo di spinta
 "T" nut for clamping wedge


Extra per ogni foro aggiunto per Zero Point - MAN-010-FMS: euro 110,00

Extra charge for each hole for Zero Point - MAN-010-FMS: euro 110,00

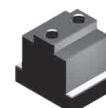
Vedi pag 6.36-38 - See pag 6.36-38

A	4 x 48	4 x 73	4 x 98	4 x 123	4 x 148	4 x 173
B	25					
C ^{0 -0,02}	75					
D ^{0 -0,05}	400	500	600	700	800	900
G ^{0 -0,02}	75					
J	38					
J1	44 / 50					
I	11					
F	20					
W	49					
ØP	13					
Q ^{±0,02}	200 / 300	200	300	400	400 / 500	300 / 400 / 500
kg	16,1	19,6	23,1	26,6	30,1	33,7
Cod.	6.69.21400	6.69.21500	6.69.21600	6.69.21700	6.69.21800	6.69.21900
€	1.619	1.706	1.819	1.918	2.056	2.207

Art. 613A T.1 (VAR.2)

 Ganasce mobile
 Movable jaw

Art. 604B T.1 (VAR.2)

 Dado a "T" per ganasce fissa
 "T" nut for fixed jaw


Extra per ogni foro aggiunto per Zero Point - MAN-010-FMS: euro 110,00

Extra charge for each hole for Zero Point - MAN-010-FMS: euro 110,00

Vedi pag 6.37-38 - See pag 6.37-38

GANASCE TIPO 1 o 2 ⇒ BASE TIPO 3

JAWS TYPE 1 or 2 ⇒ BASE TYPE 3

Art. 633

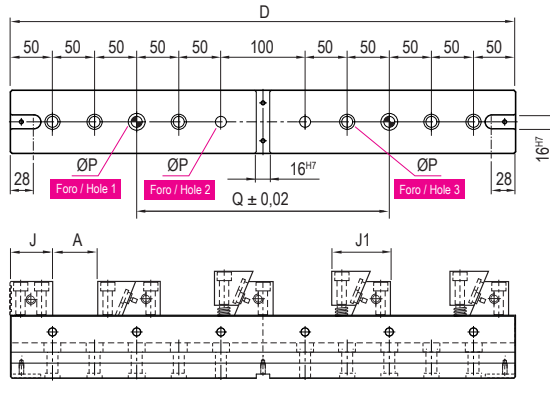
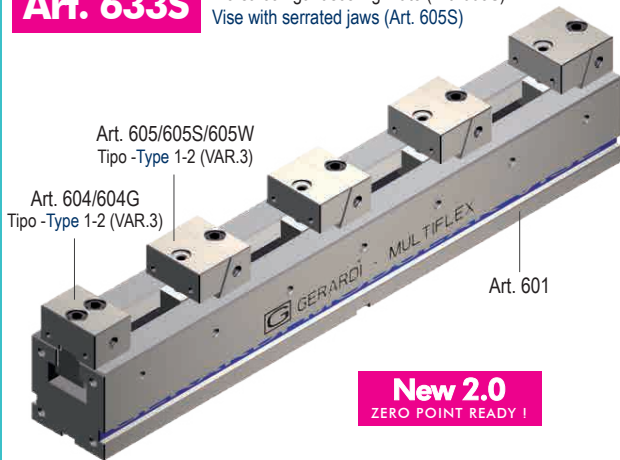
Morsa con ganasce lisce (Art. 605)
Vise with smooth jaws (Art. 605)

Art. 633S

Morsa con ganasce zigrinate (Art. 605S)
Vise with serrated jaws (Art. 605S)

Art. 633W

Morsa con ganasce mobile liscia e fissa zigrinata (Art. 605W)
Vise with smooth movable jaws and fixed serrated jaws (Art. 605W)



Compatibilità con Zero Point
Compatibility with Zero Point



Per particolari in appoggio sulla base
For workpieces clamped directly on vise base

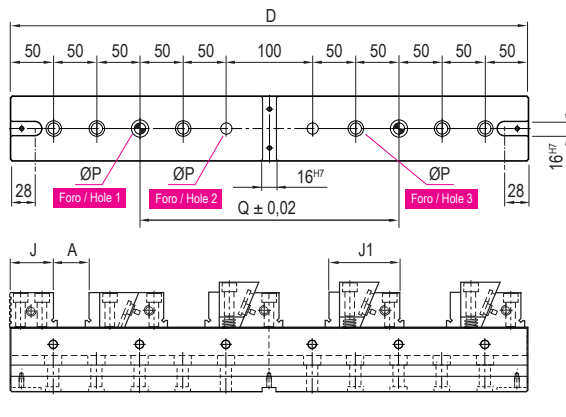
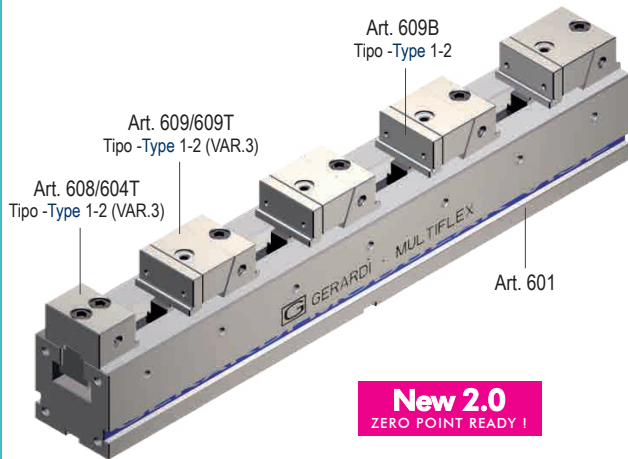
Specificare quota W in fase d'ordine - To be specify the W quote in case of order

Art. 653

Morsa con ganasce a gradino (Art. 609)
Vise with step jaws (Art. 609)

Art. 653T

Morsa con ganasce GRIP (Art. 609T)
Vise with GRIP jaws (Art. 609T)



Compatibilità con Zero Point
Compatibility with Zero Point

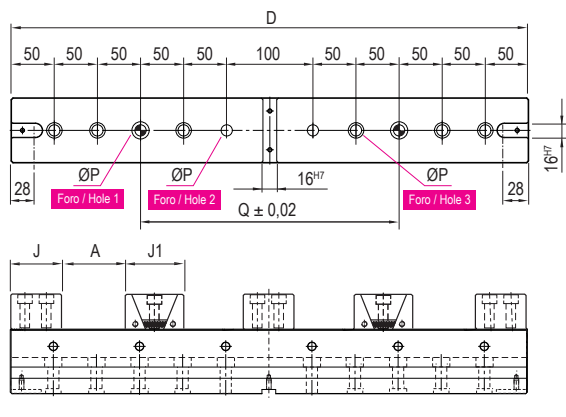
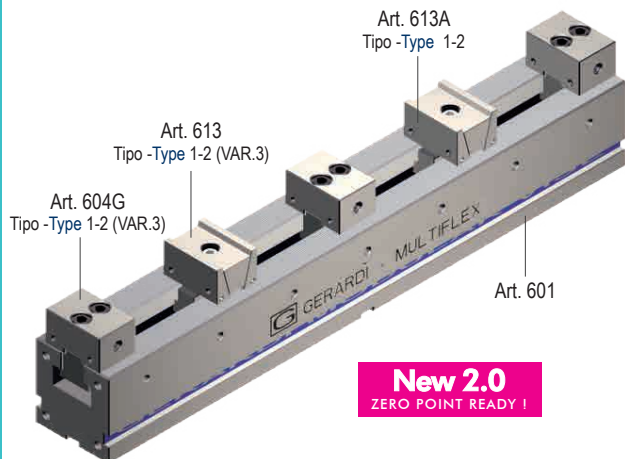


Per particolari sollevati per forature passanti
Rised workpieces for drill through holes

Specificare quota W in fase d'ordine - To be specify the W quote in case of order

Art. 693

Morsa con ganasce doppie (Art. 613)
Vise with double jaws (Art. 613)



Compatibilità con Zero Point
Compatibility with Zero Point



Per particolari in appoggio oppure sollevati con parallele
For workpieces on vise base or rised up with parallels

Specificare quota W in fase d'ordine - To be specify the W quote in case of order

	1 20 kN				2 30 kN			
	A	4 x 109,5	4 x 134,5	4 x 159,5	4 x 184,5	4 x 90,5	4 x 115,5	4 x 140,5
B	32 / 25				40			
C ^{0 -0,02}	100				100			
D ^{0 -0,05}	700	800	900	1000	700	800	900	1000
G ^{0 -0,02}	100				100			
J	38				50			
J1	55 / 58				70 / 25			
I	12				12			
F	20				20			
W	49				74			
ØP	17				17			
Q ^{±0,02}	400	400 / 500	400 / 500	400 / 500	400	400 / 500	400 / 500	400 / 500
kg	45,3	50,8	57,8	63,5	50,5	56	63	68,7
Cod. Art. 633	6.63.31700	6.63.31800	6.63.31900	6.63.31100	6.63.32700	6.63.32800	6.63.32900	6.63.32100
Cod. Art. 633S	6.63.3S170	6.63.3S180	6.63.3S190	6.63.3S110	6.63.3S270	6.63.3S280	6.63.3S290	6.63.3S210
Cod. Art. 633W	6.63.3W170	6.63.3W180	6.63.3W190	6.63.3W110	6.63.3W270	6.63.3W280	6.63.3W290	6.63.3W210
€	1.706	1.806	1.907	2.107	1.793	1.894	1.995	2.194

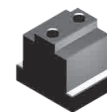
Extra per ogni foro aggiunto per Zero Point - MAN-010-FMS: euro 110,00

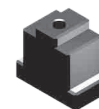
Extra charge for each hole for Zero Point - MAN-010-FMS : euro 110,00

Vedi pag 6.38 - See pag 6.38

Kit trasformazione ganasce
 Jaws transformations kit

Art. 604B T.1 (VAR.2)

 Dado a "T" per
 ganascia fissa
 "T" nut for
 fixed jaw

Art. 605C T.1 (VAR.2)

 Dado a "T" per
 cuneo di
 posizionamento
 "T" nut for
 positioning wedge

Art. 605D T.1 / (VAR.2)

 Dado a "T" per
 cuneo di spinta
 "T" nut for
 clamping wedge

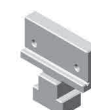

	1				2			
	A	4 x 99,5	4 x 124,5	4 x 149,5	4 x 174,5	4 x 77,5	4 x 102,5	4 x 127,5
B	32 / 25				40			
C ^{0 -0,02}	100				100			
D ^{0 -0,05}	700	800	900	1000	700	800	900	1000
G ^{0 -0,02}	100				100			
J	38				50			
J1	65 / 68				83 / 88			
I	12				12			
F	20				20			
W	49				74			
ØP	17				17			
Q ^{±0,02}	400	400 / 500	400 / 500	400 / 500	400	400 / 500	400 / 500	400 / 500
kg	45,4	50,9	57,9	63,6	51,1	56,6	63,6	69,3
Cod. Art. 653	6.65.31700	6.65.31800	6.65.31900	6.65.31100	6.65.32700	6.65.32800	6.65.32900	6.65.32100
Cod. Art. 653T	6.65.3T170	6.65.3T180	6.65.3T190	6.65.3T110	6.65.3T270	6.65.3T280	6.65.3T290	6.65.3T210
€	2.181	2.283	2.383	2.583	2.409	2.509	2.607	2.807

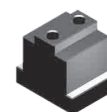
Extra per ogni foro aggiunto per Zero Point - MAN-010-FMS: euro 110,00

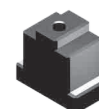
Extra charge for each hole for Zero Point - MAN-010-FMS : euro 110,00

Vedi pag 6.36-38 - See pag 6.36-38

Art. 609B T.1 (VAR.2)

 Ganascia mobile
 guidata con gradino
 Movable guided
 jaw with step

Art. 604B T.1 (VAR.2)

 Dado a "T" per
 ganascia fissa
 "T" nut for
 fixed jaw

Art. 605C T.1 (VAR.2)

 Dado a "T" per
 cuneo di
 posizionamento
 "T" nut for
 positioning wedge

Art. 605D T.1 (VAR.2)

 Dado a "T" per
 cuneo di spinta
 "T" nut for
 clamping wedge


	1				2			
	A	4 x 123	4 x 148	4 x 173	4 x 198	4 x 110	4 x 135	4 x 160
B	25				40			
C ^{0 -0,02}	100				100			
D ^{0 -0,05}	700	800	900	1000	700	800	900	1000
G ^{0 -0,02}	100				100			
J	38				50			
J1	44 / 50				52 / 58			
I	12				12			
F	20				20			
W	49				74			
ØP	17				17			
Q ^{±0,02}	400	400 / 500	400 / 500	400 / 500	400	400 / 500	400 / 500	400 / 500
kg	44,7	50,2	57,9	62,9	49,4	54,9	61,9	66,6
Cod.	6.69.31700	6.69.31800	6.69.31900	6.69.31100	6.69.32700	6.69.32800	6.69.32900	6.69.32100
€	2.157	2.256	2.356	2.558	2.356	2.458	2.558	2.758

Extra per ogni foro aggiunto per Zero Point - MAN-010-FMS: euro 110,00

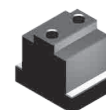
Extra charge for each hole for Zero Point - MAN-010-FMS : euro 110,00

Vedi pag 6.37-38 - See pag 6.37-38

Art. 613A T.1 (VAR.2)

 Ganascia mobile
 Movable jaw

Art. 604B T.1 (VAR.2)

 Dado a "T" per
 ganascia fissa
 "T" nut for
 fixed jaw


Tipo (grandezza) morsa / Vise type (size)
Art. 602

 Cubo-morsa con ganasce lisce (Art. 602)
 Vise-tower with smooth jaws (Art. 602)

Art. 602S

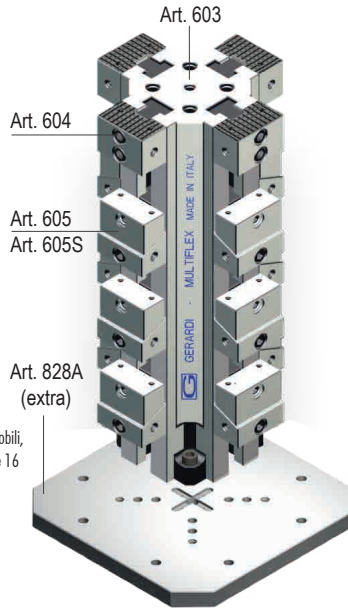
 Cubo-morsa con ganasce zigrinate (Art. 602S)
 Vise-tower with serrated jaws (Art. 602S)

Art. 602W

 Cubo-morsa con ganasce mobili lisce e
 fisse zigrinate (Art. 602W)
 Vise cube with smooth movable jaw and
 fixed serrated jaws (Art. 602W)

 Ogni cubo-morsa è completo di 4 ganasce fisse, 16 ganasce fisse mobili,
 1 chiave a T, 1 coppia tasselli di posizionamento per cava da 16mm e 16
 arresti laterali

 Each vise-tower is supplied with 4 fixed jaws and
 16 fixed-movable jaws, 1 T wrench, 1 pair of
 positioning key-nuts for 16 mm slot Art. 297 and 16 workstops

 Per particolari in appoggio sulla base
 For workpieces clamped directly on vise base


kN	1				
	20 kN				
A	4 x 8mm	4 x 33	4 x 58	4 x 83	4 x 108
B	25				
B1	32 / 25				
C ⁻⁰ _{-0,02}	100				
D	300	400	500	600	700
G ⁻⁰ _{-0,02}	50				
J	38				
J1	55 / 58				
H	66				
Ø I ^{H7}	25				
L	20				
M	14				
kg	26,2	31,2	36,2	41,2	46,3
Cod. Art.602	6.60.21300	6.60.21400	6.60.21500	6.60.21600	6.60.21700
Cod. Art.602S	6.60.2S130	6.60.2S140	6.60.2S150	6.60.2S160	6.60.2S170
Cod. Art.602W	6.60.2W130	6.60.2W140	6.60.2W150	6.60.2W160	6.60.2W170
€	5.468	5.815	6.164	6.608	7.431

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !
Art. 604*

 Ganasca fissa (1 lato liscia, 1 lato zigrinato)
 Fixed jaw (1 side smooth, 1 side serrated)


Cod. 6.60.41000

€ 105

* Arresto laterale a richiesta - Workstop on request

Art. 605*

 Ganasca mobile
 e fissa liscia
 Fixed and movable
 smooth jaws

Art. 605S*

 Ganasca mobile
 e fissa zigrinata
 Fixed and movable
 serrated jaws

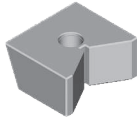

Cod. Art.605 6.60.51000

Cod. Art.605S 6.60.5S100

€ 162

* Arresto laterale a richiesta - Workstop on request

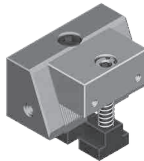
Art. 605L

 Cuneo di spinta a "V"
 "V" clamping wedge


Cod. 6.60.5L100

€ 203

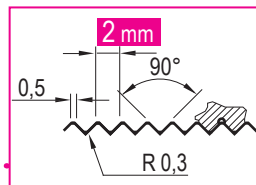
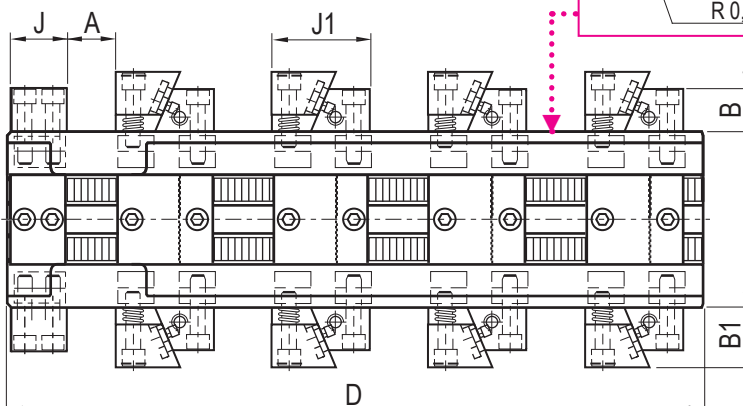
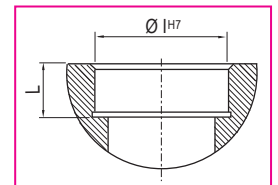
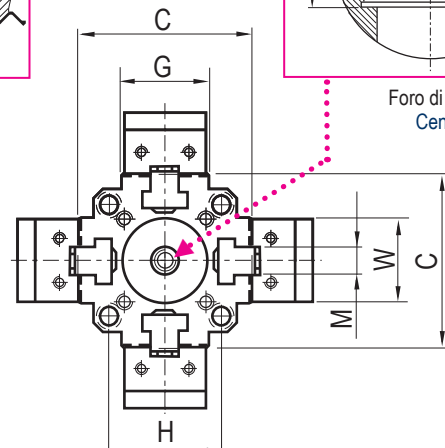
Art. 615*

 Ganasca con cuneo di posizionamento maggiorato
 Jaw with bigger positioning wedge
 (increased with respect to standard dimensions)


Cod. 6.61.51000

€ 180

* Arresto laterale a richiesta - Workstop on request

Art. 602 Art. 602S Art. 602W

 2 mm = Passo delle righe
 Rows pitch

 Foro di centraggio
 Centering hole


				2 30 kN					3 40 kN			
A	4 x 12mm	4 x 37	4 x 62	4 x 62	4 x 87	4 x 87	4 x 87	4 x 112	4 x 59	4 x 84	4 x 109	4 x 134
B		40		40	40		40			60		
B1		40		40	40		40			60		
C		150		230	150	210	240			240		
D	400	500	600	600	700	700	700	800	700	800	900	1000
G		75		75	75		75			100		
J		50		50	50		50			70		
J1		70 / 75		70 / 75	70 / 75		70 / 75			94,5 / 98,5		
H		100		-	100	100	-	-		150 / 200		
Ø I ^{H7}		50		50	50		50			50		
L		20		20	20		20			20		
M		22		22	22		22			30		
kg	79	90,2	101,4	144	112,6	149,2	175	195	254	278	301	325
Cod. Art.	6.60.22400	6.60.22500	6.60.22600	6.60.22601	6.60.22700	6.60.22701	6.60.22702	6.60.22800	6.60.23700	6.60.23800	6.60.23900	6.60.23100
Cod. Art.	6.60.2S240	6.60.2S250	6.60.2S260	6.60.2S261	6.60.2S270	6.60.2S271	6.60.2S272	6.60.2S280	6.60.2S370	6.60.2S380	6.60.2S390	6.60.2S310
Cod. Art.	6.60.2W240	6.60.2W250	6.60.2W260	6.60.2W261	6.60.2W270	6.60.2W271	6.60.2W272	6.60.2W280	6.60.2W370	6.60.2W380	6.60.2W390	6.60.2W310
€	7.063	7.411	7.759	9.169	8.292	9.819	9.894	10.520	10.843	11.470	12.095	13.342

I prezzi su fondo magenta sono **comprensivi di base integrale** / Prices on the magenta background include the solid head plate with the vise-tower

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

6.60.42000

122

6.60.43000

140

6.60.52000

6.60.5S200

188

6.60.53000

6.60.5S300

215

6.60.5L200

231

6.60.5L300

254

6.61.52000

206

6.61.53000

251
Art. 605
**GANASCIA LISCIA
JAW PLATE**

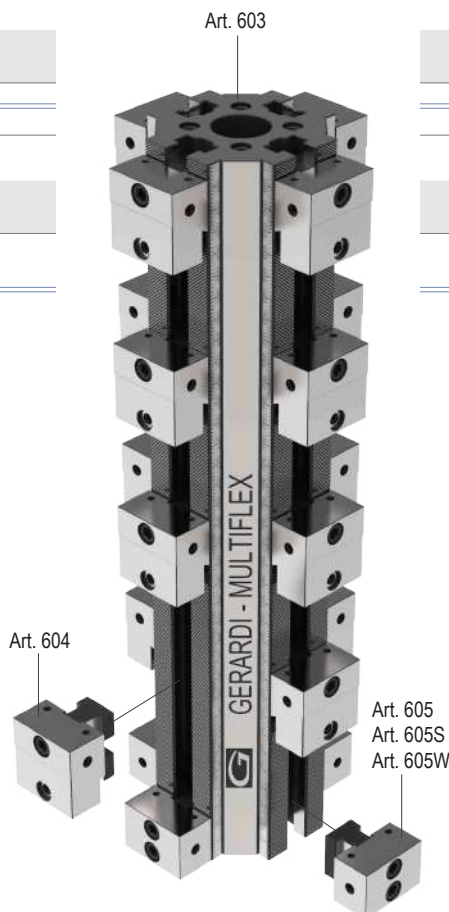
Per il serraggio di particolari finiti
To clamp finished workpieces

Art. 605W

Ganascia mobile liscia e fissa zigrinata
Smooth movable jaw and fixed serrated jaw

Art. 605S
**GANASCIA ZIGRINATA
SERRATED JAW**

Per il serraggio di particolari grezzi
To clamp rough workpieces



Art.	Pag.
603	6.31
604	6.32
605	6.33
605S	6.33

Tipo (grandezza) morsa / Vise type (size)
kN
1
20 kN
Art. 607

 Cubo-morsa con ganasce a gradino (Art. 609)
 Vise-tower with step jaws (Art. 609)

Art. 607T

 Cubo-morsa con ganasce **GRIP** (Art. 609T)
 Vise-tower with **GRIP** jaws (Art. 609T)

 Ogni cubo-morsa è completo di 4 ganasce fisse, 16 ganasce fisse mobili,
 1 chiave a T, 1 coppia tasselli di posizionamento per cava da 16mm e
 16 arresti laterali

 Each vise-tower is supplied with 4 fixed jaws and 16 fixed-movable jaws 1
 T wrench, 1 pair of positioning key-nuts for 16 mm slot Art. 297 and 16
 workstops

 * Solo tipo 1x300 e 2x400 n. 12 ganasce fisse-mobili in dotazione
 Only type 1x300 and 2x400 n. 12 fixed-movable jaws included

Art. 828A extra



	1				
	20 kN				
A	3 x 19mm *	4 x 23	4 x 48	4 x 73	4 x 97
B			25		
B1			32 / 25		
C ⁻⁰ _{-0.02}			100		
D	300	400	500	600	700
G ⁻⁰ _{-0.02}			50		
J			38		
J1			65 / 68		
J2			59 / 62		
H			66		
Ø I ^{H7}			25		
L			20		
M			14		
W			49		
kg	29,6	34,6	39,6	44,6	49,7
Cod. Art. 607	6.60.71300	6.60.71400	6.60.71500	6.60.71600	6.60.71700
Cod. Art. 607T	6.60.7T130	6.60.7T140	6.60.7T150	6.60.7T160	6.60.7T170
€	7.517	7.867	8.391	8.974	9.796

 Per particolari sollevati per forature passanti
 Rised workpieces for drill through holes

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !
Art. 609*

 Ganasca fissa e mobile con gradino
 Fixed and moving jaw with step


Cod. 6.60.91000

 € **298**

* Arresto laterale a richiesta - Workstop on request

Art. 610B

Piastra ganasca lavorabile / Soft jaw plate



Cod. Art. 610B 6.61.0B100

 € **34**
Art. 610C

Piastra ganasca liscia / Smooth jaw plate



Cod. Art. 610C 6.61.0C100

 € **28**
Art. 610D

Piastra ganasca zigrinata / Serrated jaw plate



Cod. Art. 610D 6.61.0D100

 € **34**
Art. 610E

Piastra ganasca parallela / Parallel jaw plate



Cod. Art. 610E 6.61.0E100

 € **28**
Art. 610F

Piastra ganasca prismatica / Prismatic jaw plate



Cod. Art. 610F 6.61.0F100

 € **34**

Piastrine Art.610B - 610C - 610D - 610E - 610F dimensioni come pagina 6.36 - Jaw plates Art.610B - 610C - 610E - 610F dimensions as page 6.36

Art. 609T*

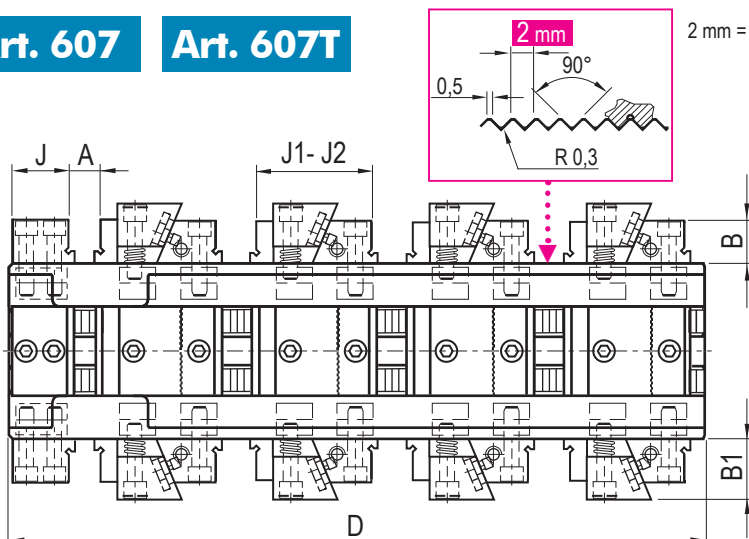
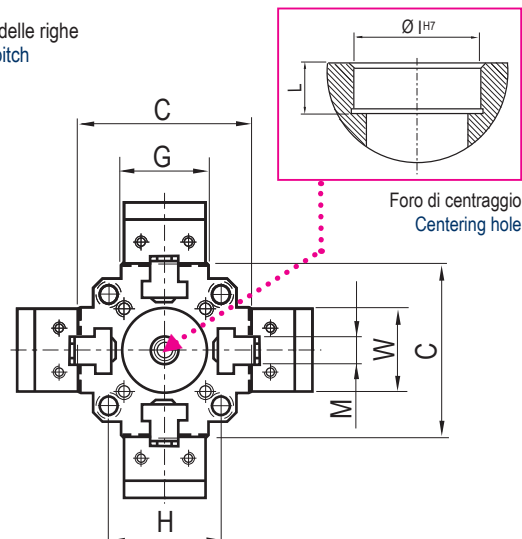
 Ganasca fissa e mobile con piastra ganasca
GRIP a forte serraggio

 Fixed and moving jaw with **GRIP** jaw-plates for strongest clamping


Cod. 6.60.9T100

 € **298**

* Arresto laterale a richiesta - Workstop on request

Art. 607
Art. 607T

 2 mm = Passo delle righe
 Rows pitch

 Foro di centraggio
 Centering hole

2 30 kN					3 40 kN							
A	3 x 28mm*	4 x 24	4 x 49	4 x 49	4 x 74	4 x 74	4 x 74	4 x 99	4 x 39	4 x 64	4 x 89	4 x 114
B		40		40	40			40			60	
B1		40		40	40			40			60	
C ^{-0 -0.02}		150		230	150	210		240			240	
D	400	500	600	600	700	700	700	800	700	800	900	1000
G ^{-0 -0.02}		75		75	75			75			100	
J		50		50	50			50			70	
J1		83 / 88		83 / 88	83 / 88			83 / 88			109 / 113	
J2		77 / 82		77 / 82	77 / 82			77 / 82			103 / 107	
H		100		-	100	-	-	-			150 / 200	
Ø I ^{H7}		50		50	50			50			50	
L		20		20	20			20			20	
M		22		22	22			22			30	
W		74		74	74			74			99	
kg	85,6	96,8	108	150	119,2	155,8	183	203	268	292	315	339
Cod. Art.	6.60.72400	6.60.72500	6.60.72600	6.60.72601	6.60.72700	6.60.72701	6.60.72702	6.60.72800	6.60.73700	6.60.73800	6.60.73900	6.60.73100
Cod. Art.	6.60.7T240	6.60.7T250	6.60.7T260	6.60.7T261	6.60.7T270	6.60.7T271	6.60.7T272	6.60.7T280	6.60.7T370	6.60.7T380	6.60.7T390	6.60.7T310
€	9.475	9.978	10.461	11.463	10.899	11.963	12.089	12.840	13.716	14.342	14.580	15.709

 I prezzi su fondo magenta sono **comprensivi di base integrale** / Prices on the magenta background include the solid head plate with the vise-tower

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Cod.	6.60.92000	6.60.93000
€	352	401

Cod. Art. 610B	6.61.0B200	6.61.0B300
€	40	46

Cod. Art. 610C	6.61.0C200	6.61.0C300
€	34	40

Cod. Art. 610D	6.61.0D200	6.61.0D300
€	40	46

Cod. Art. 610E	6.61.0E200	6.61.0E300
€	34	40

Cod. Art. 610F	6.61.0F200	6.61.0F300
€	40	46

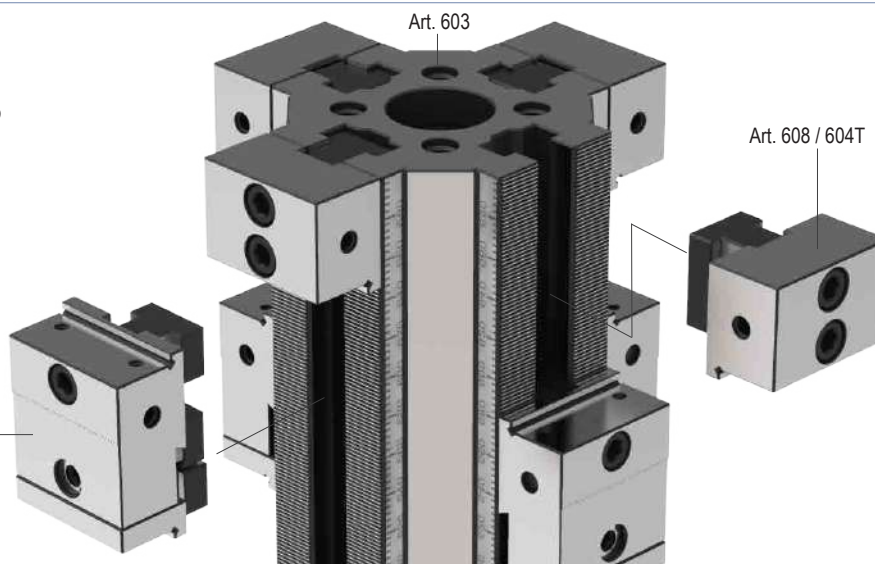
Piastrine Art.610B - 610C - 610D - 610E - 610F dimensioni come pagina 6.36 - Jaw plates Art.610B - 610C - 610E - 610F dimensions as page 6.36

Cod.	6.60.9T200	6.60.9T300
€	352	401

Art. 609

 Ganascia fissa e mobile con gradino
 Fixed and moving jaw with step

Art. 609T

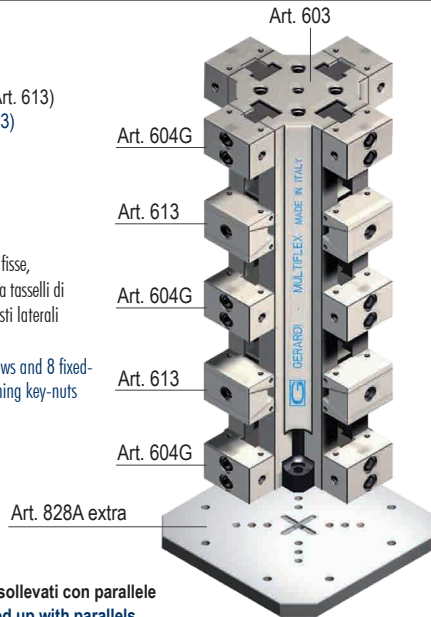
 Ganascia fissa e mobile con piastra
 ganascia **GRIP a forte serraggio**
 Fixed and moving jaw with **GRIP**
 jaw-plates for strongest clamping


Art.	Pag.
603	6.31
608	6.32
609	6.33


Tipo (grandezza) morsa / Vise type (size)
Art. 612

 Cubo-morsa con ganasce doppie (Art. 613)
 Vise-tower with double jaws (Art. 613)

 Ogni cubo-morsa è completo di 12 ganasce fisse,
 8 ganasce fisse mobili, 1 chiave a T, 1 coppia tasselli di
 posizionamento per cava da 16mm e 16 arresti laterali

 Each vise-tower is supplied with 12 fixed jaws and 8 fixed-
 movable jaws 1 T wrench, 1 pair of positioning key-nuts
 for 16 mm slot Art. 297 and 16 workstops


kN	1				
	20 kN				
A	4 x 21mm	4 x 46	4 x 71	4 x 94	4 x 121
B	25				
C ⁻⁰ _{-0.02}	100				
D	300	400	500	600	700
G ⁻⁰ _{-0.02}	50				
J	38				
J1	44 / 50				
H	66				
Ø I ^{H7}	50				
L	20				
M	14				
W	49				
kg	24,2	29,3	34,4	39,5	44,5
Cod.	6.61.21300	6.61.21400	6.61.21500	6.61.21600	6.61.21700
€	7.517	7.867	8.391	8.974	9.796

 Per particolari in appoggio oppure sollevati con parallele
 For workpieces on vise base or rised up with parallels

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !
Art. 604G*

 Ganasca fissa liscia da entrambi i lati
 Fixed smooth jaws both sides

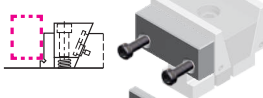

Cod. 6.60.4G100

€ 105

* Arresto laterale a richiesta - Workstop on request

Art. 610B

Piastra ganasca lavorabile / Soft jaw plate



Cod. Art. 610B 6.61.0B100

€ 34

Art. 610C

Piastra ganasca liscia / Smooth jaw plate



Cod. Art. 610C 6.61.0C100

€ 28

Art. 610D

Piastra ganasca zigrinata / Serrated jaw plate



Cod. Art. 610D 6.61.0D100

€ 34

Art. 610E

Piastra ganasca parallela / Parallel jaw plate



Cod. Art. 610E 6.61.0E100

€ 28

Art. 610F

Piastra ganasca prismatica / Prismatic jaw plate

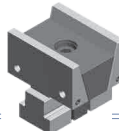


Cod. Art. 610F 6.61.0F100

€ 34

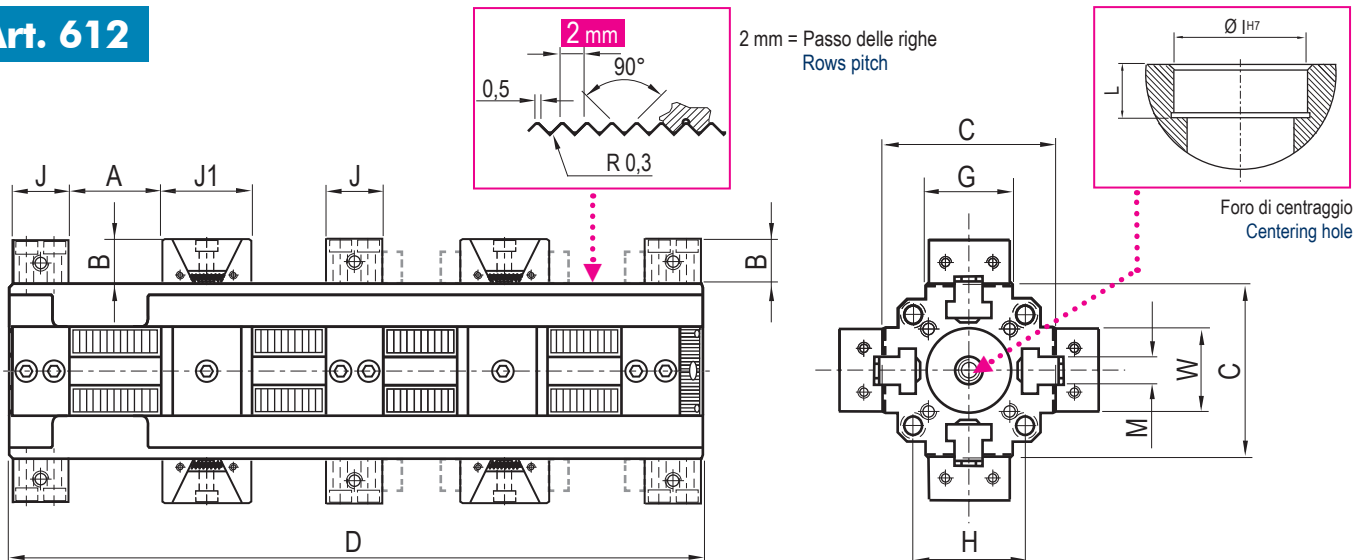
Piastrine Art.610B - 610C - 610D - 610E - 610F dimensioni come pagina 6.36 - Jaw plates Art.610B - 610C - 610E - 610F dimensions as page 6.36

Art. 613

 Ganasca mobile doppia di spinta
 Double clamping movable jaws


Cod. 6.61.31000

€ 503

Art. 612


2 30 kN						3 40 kN						
A	4 x 34mm	4 x 59	4 x 84	4 x 84	4 x 109	4 x 109	4 x 109	4 x 134	4 x 77	4 x 102	4 x 127	4 x 152
B		40		40	40		40			60		
C ^{-0 -0.02}		150		230	150	210	240			240		
D	400	500	600	600	700	700	700	800	700	800	900	1000
G ^{-0 -0.02}		75		75	75		75			100		
J		50		50	50		50			70		
J1		52 / 58		52 / 58	52 / 58		52 / 58			84 / 90		
H		100		-	100	-	-	-		150 / 200		
Ø I ^{H7}		50		50	50		50			50		
L		20		20	20		20			20		
M		22		22	22		22			30		
W		74		74	74		74			99		
kg	72,4	83,6	94,8	137	106	142,6	170	190	244	268	291	315
Cod.	6.61.22400	6.61.22500	6.61.22600	6.61.22601	6.61.22700	6.61.22701	6.61.22702	6.61.22800	6.61.23700	6.61.23800	6.61.23900	6.61.23100
€	9.475	9.978	10.461	11.463	10.899	11.963	12.089	12.840	13.716	14.342	14.580	15.709

I prezzi su fondo magenta sono **comprensivi di base integrale** / Prices on the magenta background include the solid head plate with the vise-tower

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Cod.	6.60.4G200	6.60.4G300
€	122	140

Cod. Art. 610B	6.61.0B200	6.61.0B300
€	40	46

Cod. Art. 610C	6.61.0C200	6.61.0C300
€	34	40

Cod. Art. 610D	6.61.0D200	6.61.0D300
€	40	46

Cod. Art. 610E	6.61.0E200	6.61.0E300
€	34	40

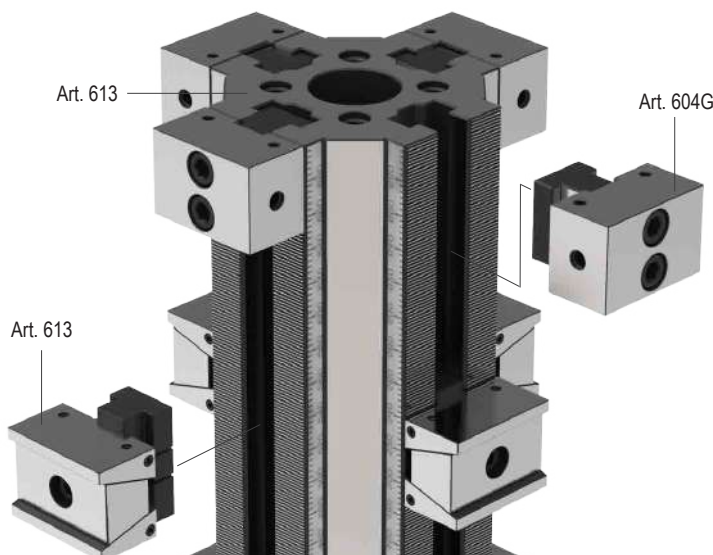
Cod. Art. 610F	6.61.0F200	6.61.0F300
€	40	46

Piastrine Art.610B - 610C - 610D - 610E - 610F dimensioni come pagina 6.36 - Jaw plates Art.610B - 610C - 610E - 610F dimensions as page 6.36

Cod.	6.61.32000	6.61.33000
€	601	699

Art. 613

Ganascia mobile doppia di spinta
Double clamping movable jaws

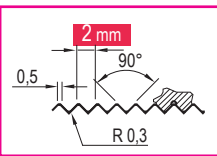


Art.	Pag.
603	6.31
604G	6.32
613	6.34

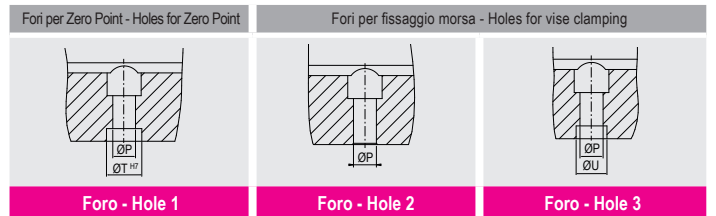
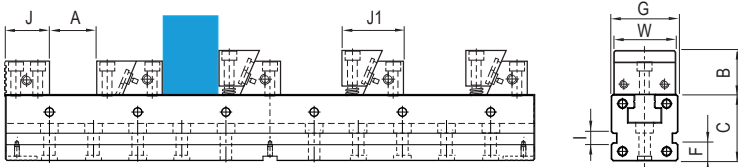
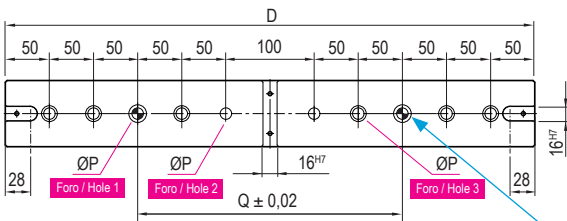
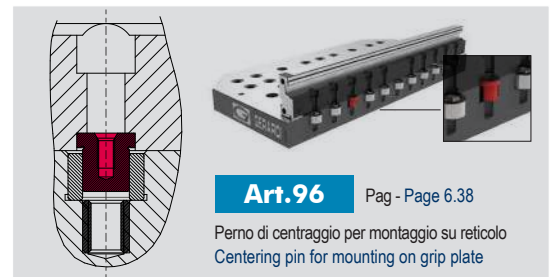
Tipo (grandezza) / Type (size)
Art. 601
New 2.0
ZERO POINT READY I

 Corpo base morsa
 Vise base body


		1					2					3				
A		34 (M8)					50 (M10)					70 (M10)				
A1		34 (M8)					54 (M10)					70 (M10)				
B		8 (M8)					12,5 (M10)					15 (M10)				
B1		8 (M8)					10,5 (M10)					15 (M10)				
C	$\frac{0,02}{-0,05}$	50					75					100				
D	$\frac{0,02}{-0,05}$	300	400	500	600	700	400	500	600	700	800	900	700	800	900	1000
E		37,5					55					75				
F		15					20					20				
G	$\frac{0,02}{-0,02}$	50					75					100				
I		10					11					12				
L	$\frac{0,025}{0,065}$	14					22					30				
ØP		9					13					17				
Q	$\pm 0,02$	100/200	100/200	200	300	400	200/300	200	300	400	400/500	300/400/500	400	400/500	400/500	400/500
ØT ^{H7}		14					20					20				
ØU		12					18					-				
kg		4,4	5,9	7,3	8,8	10,2	13,9	17,4	20,9	24,4	27,9	31,4	42,5	48	55	60,7
Cod.		6.60.11300	6.60.11400	6.60.11500	6.60.11600	6.60.11700	6.60.12400	6.60.12500	6.60.12600	6.60.12700	6.60.12800	6.60.12900	6.60.13700	6.60.13800	6.60.13900	6.60.13100
€		487	563	679	834	993	705	823	951	1.079	1.255	1.440	1.380	1.504	1.630	1.880

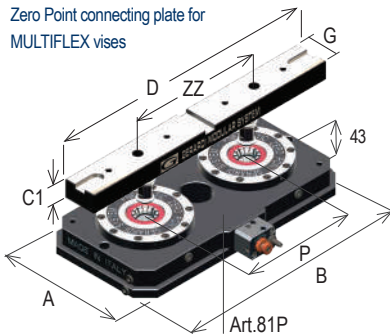


2 mm = Passo delle righe - Rows pitch


 Modificabili per Zero Point
 Adaptable for Zero Point

Art.96 Pag - Page 6.38

 Perno di centraggio per montaggio su reticolo
 Centering pin for mounting on grip plate

Tipo (grandezza) / Type (size)
Art. 62
MULTIFLEX

 Piastra di interfaccia Zero Point
 per morsa MULTIFLEX
 Zero Point connecting plate for
 MULTIFLEX vises

 Tiranti e viti INCLUSI
 Pull Studs and screws INCLUDED

Art.81P

 Piastra Zero Point in acciaio
 con montaggio incassato
 Zero Point steel plate built-in mounting

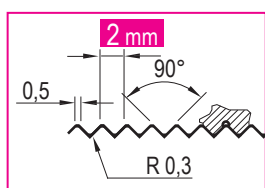
		1					2					3				
D		300	400	500	600	700	400	500	600	700	800	900	700	800	900	1000
G		50					75					100				
C1		28					33					33				
N		3	4	5	6	7	4	5	6	7	8	9	7	8	9	100
ZZ	$\frac{+0,02}{-0,02}$	200	200	250	200x2	200	250	200x2	300x2	200x2	300x2	400x2	200x2	300x2	400x2	
kg		3,1	4,2	5,3	6,4	7,4	7,5	9,5	11,4	13,2	15,2	17,2	17,8	20,4	23	25,5
Cod.		6.62.13000	6.62.14000	6.62.15000	6.62.16000	6.62.17000	6.62.24000	6.62.25000	6.62.26000	6.62.27000	6.62.28000	6.62.29000	6.62.37000	6.62.38000	6.62.39000	6.62.31000
€		268	312	374	461	547	387	454	527	595	691	793	761	829	898	1.035
A		200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
B		400	500	600	400	500	600	800	600	800	1000					
Art.665 Tipo / Type2																
P		200	250	200X2	200	250	200X2	300X2	200x2	300X2	400x2					
kg		29	35	42	29	35	42	59	42	59	71,5					
Cod.		9.81.P2040S2	9.81.P2060S2	9.81.P2060S3	9.81.P2040S2	9.81.P2060S2	9.81.P2080S3	9.81.P22080S3	9.81.P2060S3	9.81.P2080S3	9.81.P2010S3					
€		2.724	2.793	3.972	2.724	2.793	3.972	4.142	3.972	4.142	4.255					

Tipo (grandezza) / Type (size)	1					2					3							
Art. 603																		
Corpo base cubo Cube base body																		
C ^{-0,02}	100					150					230	150	210	240	240			
D	300	400	500	600	700	400	500	600	600	700	700	700	800	700	800	900	1000	
G ^{-0,02}	50					75					75	75	75					
Ø I ^{H7}	25					50					50	50	50					
L ^{-0,02}	20					20					20	20	20					
kg	15,4	20,5	25,6	30,7	35,8	44,8	56	67,2	110	78,4	115	143	163	164	188	211	235	
Cod.	6.60.31300	6.60.31400	6.60.31500	6.60.31600	6.60.31700	6.60.32400	6.60.32500	6.60.32600	6.60.32601	6.60.32700	6.60.32701	6.60.32702	6.60.32800	6.60.33700	6.60.33800	6.60.33900	6.60.33100	
€	2.419	2.807	3.119	3.632	4.455	3.509	3.852	4.269	5.951	4.849	6.378	6.452	7.080	6.885	7.511	8.137	9.384	

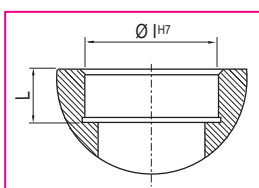
I prezzi su fondo magenta sono **comprensivi di base integrale**
 Prices on the magenta background **include the solid head plate with the vise-tower**

Art. 603

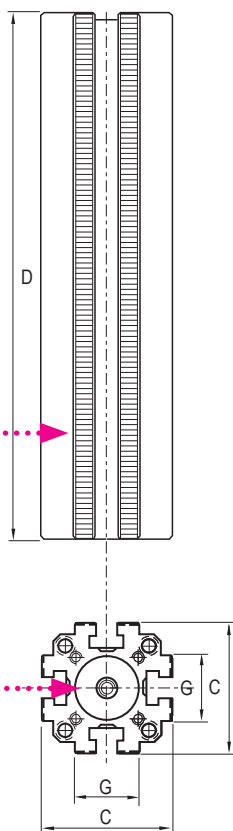
Corpo cubo semplice
Simple cube body



2 mm =
Passo delle righe
Rows pitch

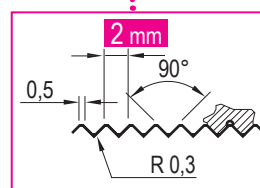


Foro di centraggio
Centering hole

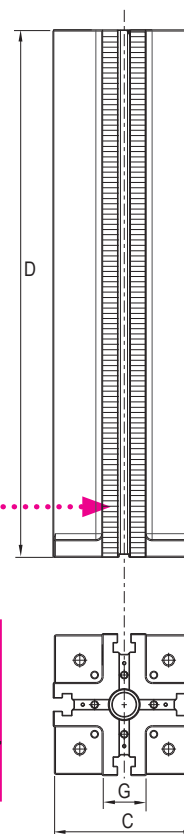


Art. 603

Corpo cubo con base integrale
Cube body with integral base



2 mm = Passo delle righe
Rows pitch

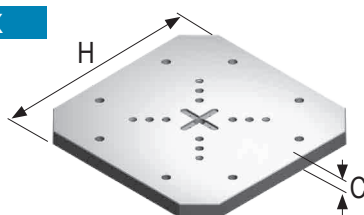


Art. 828A

MULTIFLEX

Piastra base per cubo-morsa personalizzata
(Bussola di centraggio Art. 852 compresa)

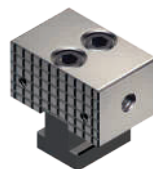
Head plate for vise-tower tailor made
(Centering bushing Art. 852 included)



	1	2	3	4	5	6	7
C	33	33	38	38	38	38	38
H	300	350	400	450	500	630	800
kg	22	30	44,5	56,5	71	113	182
Cod.	6.82.8A100	6.82.8A200	6.82.8A300	6.82.8A400	6.82.8A500	6.82.8A600	6.82.8A700
€	1.076	1.146	1.262	1.473	1.780	2.273	2.519

Tipo (grandezza) / Type (size)	1	2	3
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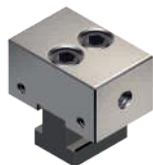
Art. 604*

 Ganaschia fissa (1 lato liscia, 1 lato zigrinata) per morsa Art. 600 e 602
 Fixed jaw (1 side smooth, 1 side serrated) for vise Art. 600 and 602


kg	0,4	1,35	3,84
Cod.	6.60.41000	6.60.42000	6.60.43000
€	105	122	140

* Arresto laterale a richiesta - Workstop on request

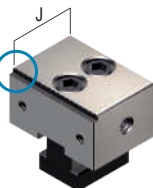
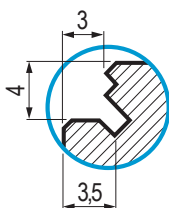
Art. 604G*

 Ganaschia fissa liscia da entrambi i lati, per morsa Art. 611 e cubi Art. 612
 Fixed smooth jaw both sides, for vise Art. 611 and cubes Art. 612


kg	0,5	1,40	3,90
Cod.	6.60.4G100	6.60.4G200	6.60.4G300
€	105	122	140

* Arresto laterale a richiesta - Workstop on request

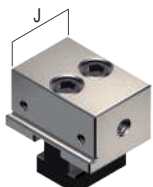
Art. 604T*

 Ganaschia fissa GRIP per morsa Art. 606T
 Fixed GRIP jaw for vise Art. 606T


J	38	50	70
Cod.	6.60.4T100	6.60.4T200	6.60.4T300
€	160	189	226

* Arresto laterale a richiesta - Workstop on request

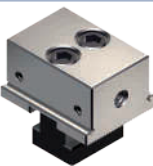
Art. 608*

 Ganaschia fissa con gradino per morsa Art. 606
 Fixed step jaw for vise Art. 606


J	38	50	70
kg	0,45	1,4	4
Cod.	6.60.81000	6.60.82000	6.60.83000
€	160	189	225

* Arresto laterale a richiesta - Workstop on request

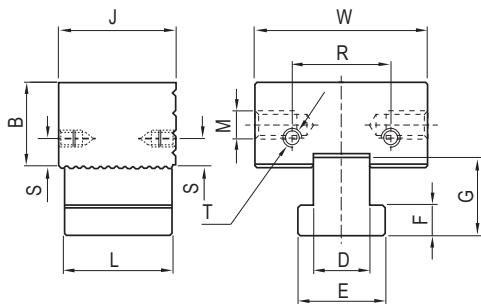
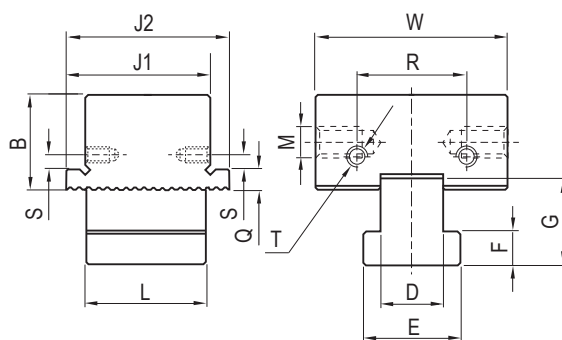
Art. 614T*

 Ganaschia fissa con doppio gradino
 Fixed jaw with double step


Cod.	6.61.4T100	6.61.4T200	6.61.4T300
€	185	226	276

* Arresto laterale a richiesta - Workstop on request

6

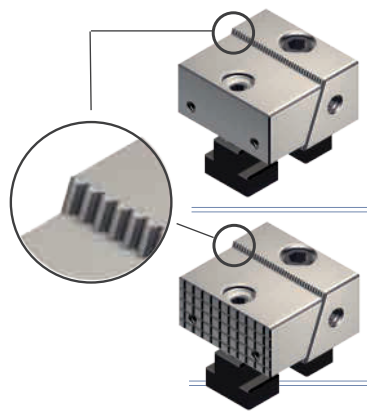
Art. 604

Art. 608
Art. 614T


Art.	1	2	3
W	49	74	99
B	25	40	60
D	14	22	30
E	22	35	48
F	8	14	21
G	21	33	46
J	38	50	70
J1	43	55	75
J2	48	60	80
L	30	45	60
M	M10	M10	M10
Q	5	8	10
R	30	50	50
S	7	10	10
T	M5	M6	M6

Tipo (grandezza) / Type (size)	1	2	3
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Art. 605*

 Ganascia fissa e mobile liscia per morsa Art. 600
 Fixed and movable smooth jaw for vise Art. 600

 Ganascia discendente guidata / Sistema a pettine (Particolare)
 Guided pull down jaw / Comb system (Detail)


kg	0.6	1.8	4.7
Cod.	6.60.51000	6.60.52000	6.60.53000
€	162	188	215

* Arresto laterale a richiesta - Workstop on request

Art. 605S*

 Ganascia fissa e mobile zigrinata per morsa Art. 600
 Fixed and movable serrated jaw Art. 600

Art. 605W*

 Ganascia fissa zigrinata e mobile liscia per morsa Art. 600
 Serrated fixed jaw and movable smooth for vise Art. 600

kg	0.6	1.8	4.7
Cod.	6.60.5S100	6.60.5S200	6.60.5S300
€	162	188	215

* Arresto laterale a richiesta - Workstop on request

Cod.	6.60.5W100	6.60.5W200	6.60.5W300
€	162	188	215

* Arresto laterale a richiesta - Workstop on request

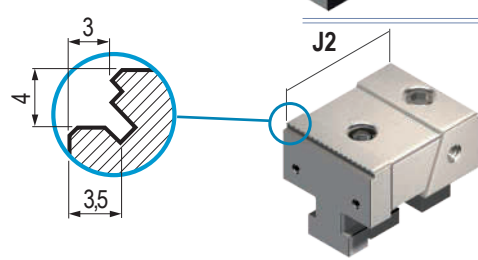
Art. 609*

 Ganascia fissa e mobile con gradino per morsa Art. 606
 Fixed and moving jaw with step for vise Art. 606


kg	0.8	2.2	5.5
Cod.	6.60.91000	6.60.92000	6.60.93000
€	298	352	401

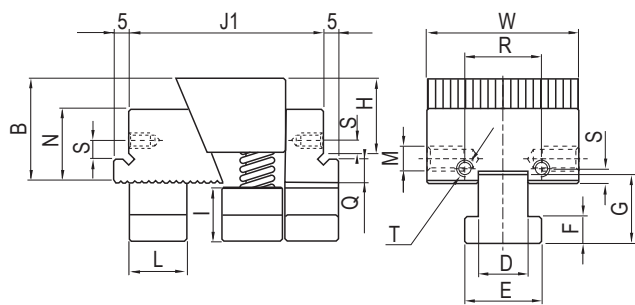
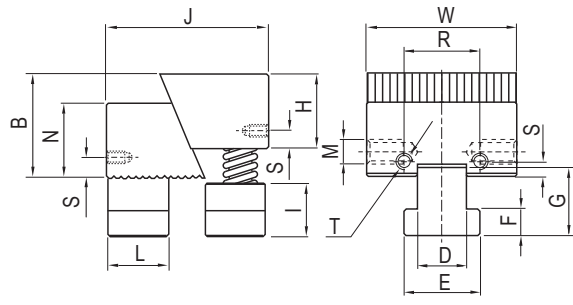
* Arresto laterale a richiesta - Workstop on request

Art. 609T*

 Ganascia fissa e mobile GRIP per morsa Art. 606T
 Fixed and moving GRIP jaw for vise Art. 606T


Cod.	6.60.9T100	6.60.9T200	6.60.9T300
€	298	352	401

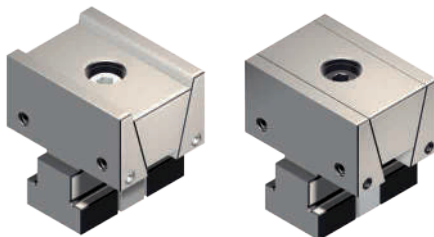
* Arresto laterale a richiesta - Workstop on request

Art. 605
Art. 605S
Art. 605W
Art. 609
Art. 609T


Art.	1	2	3
W	49	74	99
B	35 / 25	40	60
D	14	22	30
E	22	35	48
F	8	14	21
G	25	33	46
H	25	34	50
I	18	26	42
J	54 / 58	70 / 75	94,5 / 98,5
J1	63,5 / 67,5	85 / 88	114,5 / 119
J2	70 / 74	87 / 90	120,5 / 115,5
L	22	26	35
M	M10	M10	M10
N	25	40	60
Q	5	8	10
R	30	50	50
S	7	10	10
T	M5	M6	M6

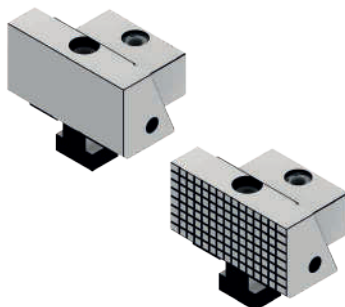
Tipo (grandezza) / Type (size)	1	2	3
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Art. 613

 Ganaschia mobile di spinta doppia per morso Art. 611
 Double clamping movable jaws for vise Art. 611


kg	0.5	1.4	4.3
Cod.	6.61.31000	6.61.32000	6.61.33000
€	503	601	699

Art. 615*

 Ganaschia di posizionamento liscia maggiorata
 e cuneo mobile liscio
 Bigger positioning smooth jaw with movable smooth wedge
 (Increased with respect to standard dimensions)


Cod.Art.615	6.61.51000	6.61.52000	6.61.53000
Cod.Art.615S	6.61.5S100	6.61.5S200	6.61.5S300
Cod.Art.615W	6.61.5W100	6.61.5W200	6.61.5W300
€	180	206	251

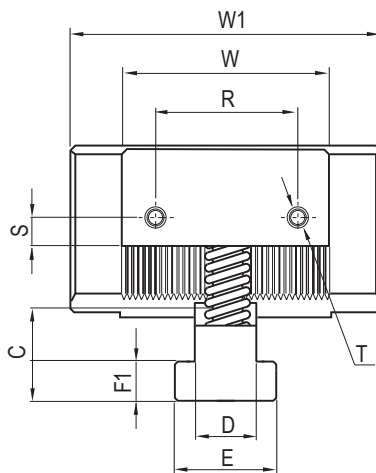
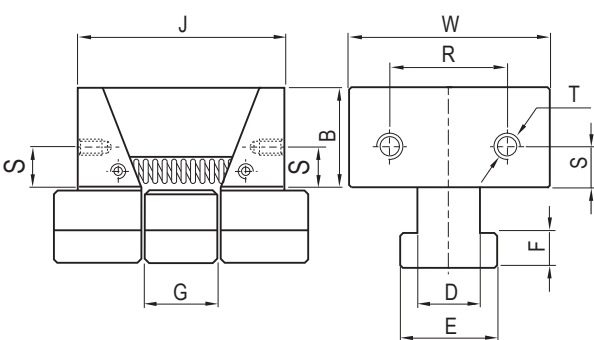
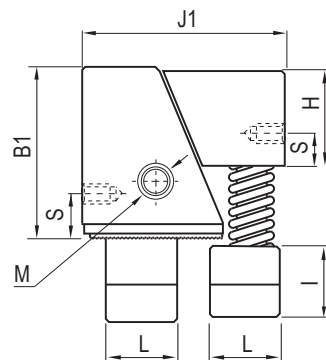
* Arresto laterale a richiesta - Workstop on request

Art. 615S

 Ganaschia di posizionamento zigrinata maggiorata
 e cuneo mobile zigrinato
 Bigger positioning serrated jaw with movable serrated wedge
 (Increased with respect to standard dimensions)

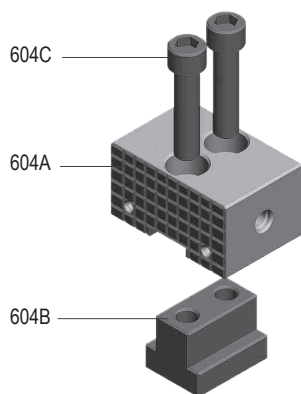
Art. 615W*

 Ganaschia di posizionamento zigrinata maggiorata
 e cuneo mobile liscio
 Bigger positioning serrated jaw with movable smooth wedge
 (Increased with respect to standard dimensions)

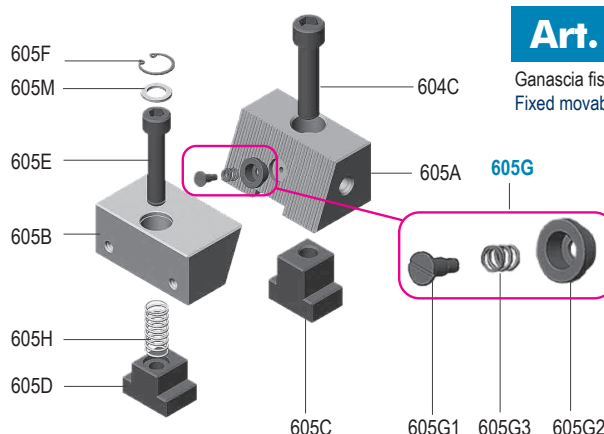
Art. 613

Art. 615


Art.	1	2	3
W	49	74	99
W1	64	110	150
B	25	40	60
B1	45	60	75
C	21	33	46
D	14	22	30
E	22	35	48
F	9	15	21
F1	8	14	21
G	13	15	25
H	25	34	50
I	18	26	40
J	44 / 50	52 / 58	84 / 90
J1	54 / 58	73 / 79	94.5 / 98.5
L	22	25	35
M	M10	M10	M10
N	45	60	75
R	30	50	50
S	7	10	10
T	M5	M6	M6

Tipo (grandezza) / Type (size)		1	2	3
Art. 604 Ganascia fissa (1 lato liscia, 1 lato zigrinata) / Fixed jaw (1 side smooth, 1 side serrated)		Cod. 6.60.41000 € 105	6.60.42000 € 122	6.60.43000 € 140
Art. 604A Ganascia fissa (un lato liscio e uno zigrinato) / Fixed jaw (1 side smooth, 1 side serrated)		Cod. 6.60.4A100 € 102	6.60.4A200 € 115	6.60.4A300 € 134
Art. 604B Dado a "T" per ganascia fissa / "T" nut for fixed jaw		Cod. 6.60.4B100 € 14	6.60.4B200 € 16	6.60.4B300 € 18
Art. 604C Vite TCEI fissaggio ganascia fissa / Hex socket head screw for fixed jaw		Cod. 6.60.4C100 € 10	6.60.4C200 € 10	6.60.4C300 € 10
Art. 605A Cuneo di posizionamento / Positioning wedge		Cod. 6.60.5A100 € 102	6.60.5A200 € 115	6.60.5A300 € 134
Art. 605AS Cuneo di posizionamento zigrinato / Serrated positioning wedge		Cod. 6.60.5AS10 € 102	6.60.5AS20 € 115	6.60.5AS30 € 134
Art. 605B Cuneo di spinta / Clamping wedge		Cod. 6.60.5B100 € 102	6.60.5B200 € 115	6.60.5B300 € 134
Art. 605BS Cuneo di spinta zigrinato / Serrated clamping wedge		Cod. 6.60.5BS10 € 102	6.60.5BS20 € 115	6.60.5BS30 € 134
Art. 605C Dado a "T" per cuneo di posizionamento / "T" nut for positioning wedge		Cod. 6.60.5C100 € 14	6.60.5C200 € 14	6.60.5C300 € 18
Art. 605D Dado a "T" per cuneo di spinta / "T" nut for clamping wedge		Cod. 6.60.5D100 € 13	6.60.5D200 € 14	6.60.5D300 € 18
Art. 605E Vite TCEI / TCEI screw		Cod. 6.60.5E100 € 10	6.60.5E200 € 10	6.60.5E300 € 10
Art. 605F Anello elastico / Seeger		Cod. 6.60.5F100 € 9	6.60.5F200 € 9	6.60.5F300 € 9
Art. 605G1 Vite a gradino / Step screw		Cod. 6.60.5G101 € 9	6.60.5G103 € 9	
Art. 605G2 Perno a molla / Spring pin		Cod. 6.60.5G201 € 9	6.60.5G202 € 11	6.60.5G203 € 11
Art. 605G3 Molla / Spring		Cod. 6.60.5G301 € 16	6.60.5G303 € 16	
Art. 605H Molla / Spring		Cod. 6.60.5H100 € 20	6.60.5H200 € 20	6.60.5H300 € 20
Art. 605I Cuneo a spinta dolce / Soft clamping wedge		Cod. 6.60.5I100 € 127	6.60.5I200 € 140	6.60.5I300 € 159
Art. 605L Cuneo di spinta a "V" / "V" clamping wedge		Cod. 6.60.5L100 € 203	6.60.5L200 € 231	6.60.5L300 € 254
Art. 605M Rondella / Washer		Cod. 6.60.5M100 € 7	6.60.5M200 € 7	6.60.5M300 € 7


Art. 604

Ganascia fissa
(1 lato liscia, 1 lato zigrinata)
per morsa **Art. 600 e 602**
Fixed jaw
(1 side smooth, 1 side serrated)
for vise **Art. 600 and 602**


Art. 605

Ganascia fissa mobile
Fixed movable jaw

Tipo (grandezza) / Type (size)
1 2 3
Art. 605B

 Cuneo di spinta
Clamping wedge

Art. 605BT

 Cuneo di spinta per piastra GRIP
Clamping wedge for GRIP plate


Cod. Art. 605B	6.60.5B100	6.60.5B200	6.60.5B300
Cod. Art. 605BT	6.60.5BT10	6.60.5BT20	6.60.5BT30
€	102	115	134

Art. 609A

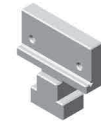
 Cuneo di posizionamento con gradino
Positioning wedge with step

Art. 609AT

 Cuneo di posizionamento GRIP
Positioning GRIP wedge


Cod. Art. 609A	6.60.9A100	6.60.9A200	6.60.9A300
Cod. Art. 609AT	6.60.9AT10	6.60.9AT20	6.60.9AT30
€	112	135	169

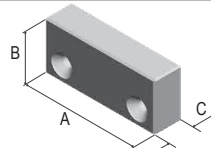
Art. 609B

 Ganascia mobile guidata con gradino
Movable guided jaw with step

Art. 609BT

 Ganascia mobile guidata GRIP
Movable guided GRIP jaw

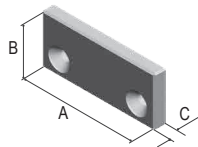

Cod. Art. 609B	6.60.9B100	6.60.9B200	6.60.9B300
Cod. Art. 609BT	6.60.9BT10	6.60.9BT20	6.60.9BT30
€	150	167	198

Art. 610B

 Piastra ganascia dolce
Soft jaw plate


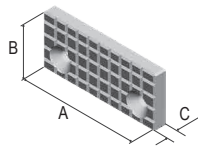
A	48	73	98
B	20	32	50
C	12	18	30
Cod.	6.61.0B100	6.61.0B200	6.61.0B300
€	34	40	46

Art. 610C

 Piastra ganascia liscia
Smooth jaw plate


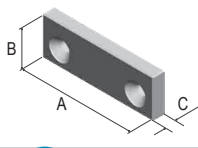
A	48	73	98
B	20	32	50
C	6	10	10
Cod.	6.61.0C100	6.61.0C200	6.61.0C300
€	28	34	40

Art. 610D

 Piastra ganascia zigrinata
Serrated jaw plate


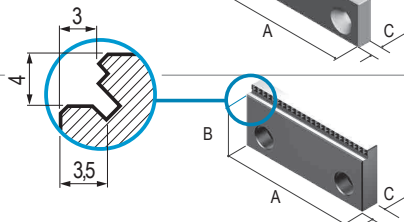
A	48	73	98
B	20	32	50
C	6	10	10
Cod.	6.61.0D100	6.61.0D200	6.61.0D300
€	34	40	46

Art. 610E

 Piastra ganascia parallela
Parallel jaw plate


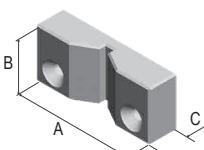
A	48	73	98
B	15	27	45
C	6	10	10
Cod.	6.61.0E100	6.61.0E200	6.61.0E300
€	28	34	40

Art. 610T

 Piastra ganascia GRIP a forte serraggio
GRIP jaw plate for strongest clamping


A	48	73	98
B	20	32	50
C	8	10	10
Cod.	6.61.0T100	6.61.0T200	6.61.0T300
€	40	46	52

Art. 610F

 Piastra ganascia prismatica
Prismatic jaw plate


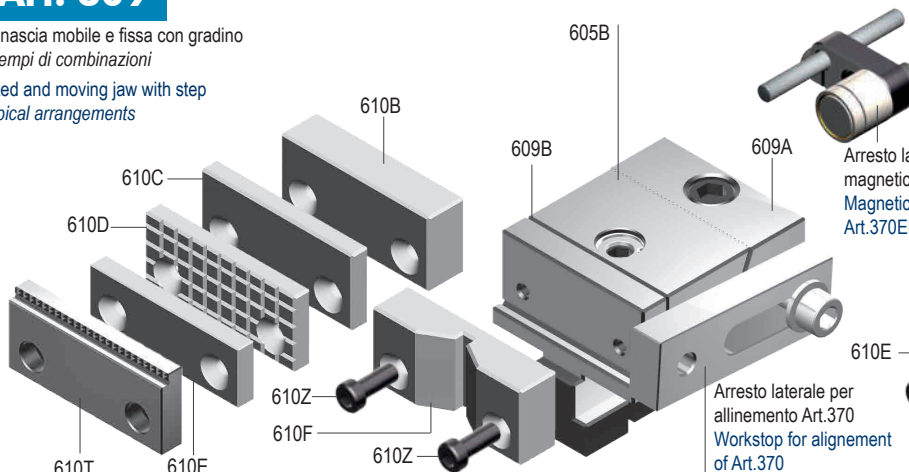
Ø	5 ÷ 35	9 ÷ 50	20 ÷ 80
A	48	73	98
B	20	32	50
C	12	18	30
Cod.	6.61.0F100	6.61.0F200	6.61.0F300
€	34	40	46

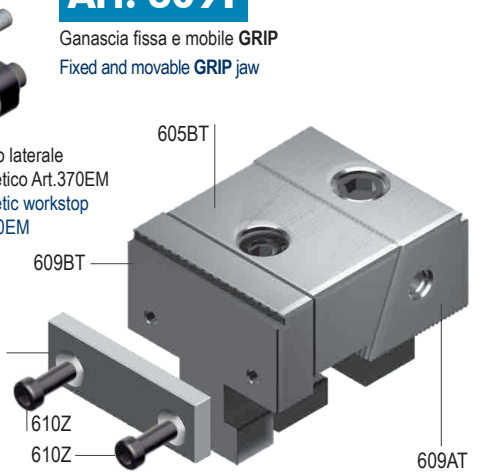
Art. 610Z

 Vite per piastre ganasce
Screw for jaw plates

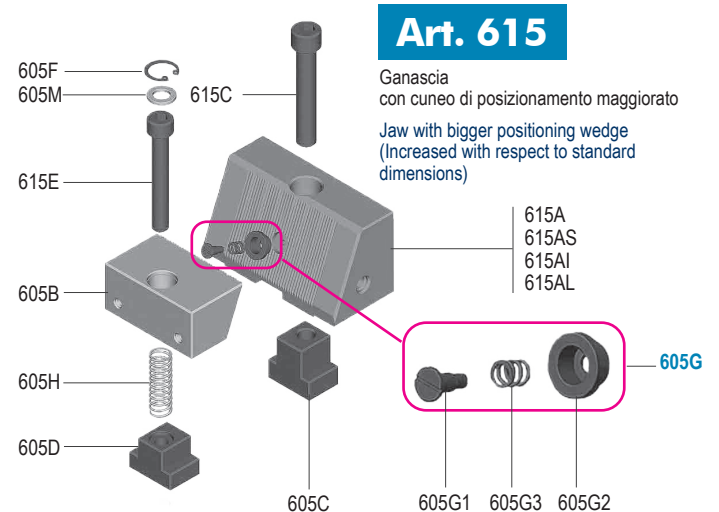
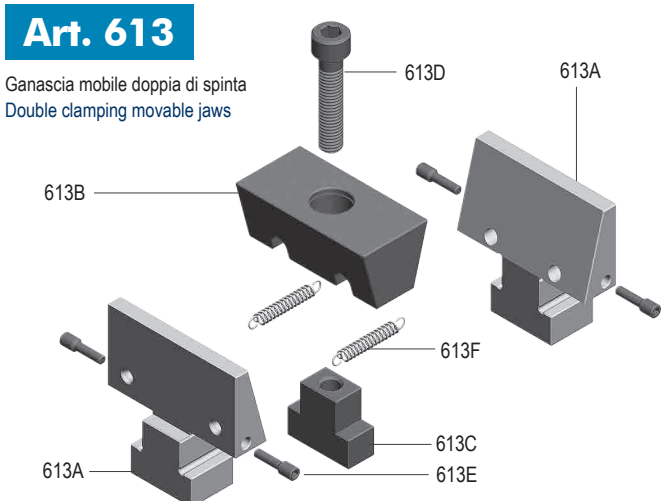

Cod.	6.61.0Z100	6.61.0Z200	6.61.0Z300
€	7	7	7

Art. 609

 Ganascia mobile e fissa con gradino
Esempi di combinazioni
Fixed and moving jaw with step
Typical arrangements

Art. 609T

 Ganascia fissa e mobile GRIP
Fixed and movable GRIP jaw


Tipo (grandezza) / Type (size)	1	2	3	
Art. 608A Ganascia fissa con gradino Fixed jaw with step		Cod. 6.60.8A100 € 130	Cod. 6.60.8A200 € 152	Cod. 6.60.8A300 € 188
Art. 613A Ganascia mobile Movable jaw		Cod. 6.61.3A100 € 146	Cod. 6.61.3A200 € 164	Cod. 6.61.3A300 € 191
Art. 613B Cuneo di spinta Clamping wedge		Cod. 6.61.3B100 € 242	Cod. 6.61.3B200 € 367	Cod. 6.61.3B300 € 441
Art. 613C Dado a "T" "T" nut		Cod. 6.61.3C100 € 14	Cod. 6.61.3C200 € 16	Cod. 6.61.3C300 € 21
Art. 613D Vite TCEI Hex socket head screw		Cod. 6.61.3D100 € 10	Cod. 6.61.3D200 € 10	Cod. 6.61.3D300 € 10
Art. 613E Grano Set screw		Cod. 6.61.3E100 € 8	Cod. 6.61.3E200 € 8	Cod. 6.61.3E300 € 8
Art. 613F Molla Spring		Cod. 6.61.3F100 € 22	Cod. 6.61.3F200 € 25	Cod. 6.61.3F300 € 31
Art. 615A Cuneo di posizionamento liscio maggiorato Positioning wedge smooth (increased with respect to stand dimension)		Cod. 6.61.5A100 € 112	Cod. 6.61.5A200 € 128	Cod. 6.61.5A300 € 146
Art. 615AS Cuneo di posizionamento zigrinato maggiorato Positioning wedge serrated (increased with respect to stand dimension)		Cod. 6.61.5AS10 € 112	Cod. 6.61.5AS20 € 128	Cod. 6.61.5AS30 € 146
Art. 615I Cuneo di posizionamento dolce maggiorato Positioning wedge soft (increased with respect to stand dimension)		Cod. 6.61.5I100 € 112	Cod. 6.61.5I200 € 128	Cod. 6.61.5I300 € 146
Art. 615L Cuneo di posizionamento a gradino maggiorato Positioning wedge with stop (increased with respect to stand dimension)		Cod. 6.61.5L100 € 125	Cod. 6.61.5L200 € 150	Cod. 6.61.5L300 € 178
Art. 615C Vite TCEI fissaggio ganascia fissa Hex socked head screw for fixed jaw		Cod. 6.61.5C100 € 11	Cod. 6.61.5C200 € 11	Cod. 6.61.5C300 € 11
Art. 615E Vite TCEI TCEI screw		Cod. 6.61.5E100 € 11	Cod. 6.61.5E200 € 11	Cod. 6.61.5E300 € 11

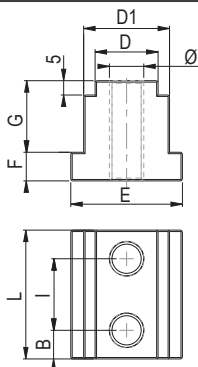
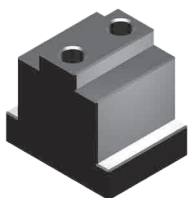


DADI A "T" PER TRASFORMAZIONI

"T" NUTS FOR TRANSFORMATIONS

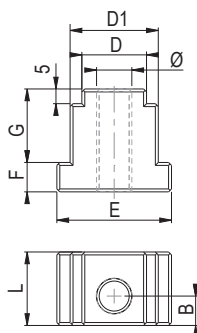
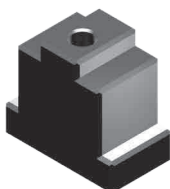
Tipo (grandezza) / Type (size)
Base / Base
Ganascia / Jaw
Tipo - Type 2
Tipo - Type 1
Tipo - Type 3
Tipo - Type 1
Tipo - Type 3
Tipo - Type 2

Art. 604B

 Dado a "T" per ganascia fissa
 "T" nut for fixed jaw


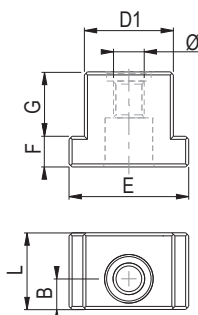
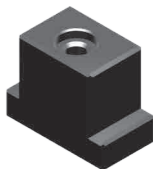
B	6	6	10
D	14	14	22
D1	22	30	30
E	34	39	39
F	14	14	14
G	19	25	25
I	18	18	25
L	30	30	45
Ø	M8	M8	M12
Cod	6.60.4B100/2	6.60.4B100/3	6.60.4B200/3
€	14	16	18

Art. 605C

 Dado a "T" per cuneo di posizionamento
 "T" nut for positioning wedge


B	9	9	10
D	14	14	22
D1	22	30	30
E	34	39	39
F	14	14	14
G	19	25	25
I	-	-	-
L	22	22	25
Ø	M8	M8	M12
Cod	6.60.5C100/2	6.60.5C100/3	6.60.5C200/3
€	14	14	18

Art. 605D

 Dado a "T" per cuneo di spinta
 "T" nut for clamping wedge


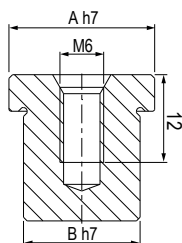
B	9	9	10
D	-	-	-
D1	21	29	29
E	34	39	39
F	14	14	14
G	15	21	21
I	-	-	-
L	21	21	25
Ø	M8	M8	M10
Cod	6.60.5D100/2	6.60.5D100/3	6.60.5D200/3
€	13	14	18

Tipo (grandezza) / Type (size)
1
2
3

Multiflex 2.0

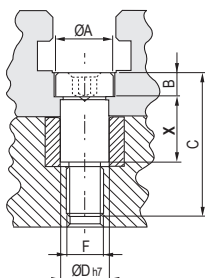
ZERO POINT READY I

Art. 96

 Perno di centraggio per montaggio
 morse Multiflex 2.0 su reticolo
 Centering pin for mounting
 Multiflex 2.0 viseson grip plate


ØA	14		20
ØB	10	16	16
Cod	C96141015-601	C96141615-601	C96141615-601
€	30	30	30

Art. 81

 Vite calibrata a colletto
 per morse Multiflex (Non versione 2.0)
 Shoulder calibrated screw
 for Multiflex vises (Not for 2.0 issue)


ØA	13	20	24
B	8	8	12
C	46	65	80
ØD	10	16	16
F	M8	M12	M12
X	25	40	50
Cod	6.81.11025	8.83.B1640	8.83.16500
€	14	16	17

N.B.: Per avere altre lunghezze consultare Pag.11.15 - For other lengths see Page.11.15

 LUNGHEZZA VITI CALIBRATE A COLLETTA PER SOLUZIONI A RETICOLO
 SHOULDER CALIBRATED SCREW LENGTHS FOR GRID SOLUTIONS

Tipo (grandezza) / Type (size)		1	2	3	
Art. 616	Coppia di piastre parallele magnetiche piane Pair of straight parallels magnetic plates				
		J 2,7 W 49 H 20 Cod. 6.61.6100C € 40	2,7 74 35 6.61.6200C € 66	2,7 99 55 6.61.6300C € 90	
Art. 617	Piastra magnetica a gradino monoblocco Magnetic solid step jaw plate				
		J 12 W 49 H 20 Cod. 6.61.71020 € 42	17 74 35 6.61.72035 € 66	22 99 55 6.61.73055 € 90	
Art. 618	Ganascia fissa ridotta Narrow width fixed jaw				
		J 18 W 49 H 25 Cod. 6.61.81000 € 90	22 74 40 6.61.82000 € 102	29 99 60 6.61.83000 € 115	
Art. 604R	Ganascia fissa di partenza Fixed start jaw				
		W 49 J 25 B 25 Cod. 6.60.4R100 € 208	74 30 40 6.60.4R200 € 242	99 35 60 6.60.4R300 € 278	
Solo per art.600 e 611 Only for art.600 and 611		PER UNA MAGGIORE APERTURA - FOR MORE OPENING CAPACITY			
Art. 608R	Ganascia fissa di partenza con gradino Fixed start jaw with step				
		W 49 J 26 B 25 Cod. 6.60.8R100 € 221	74 36 40 6.60.8R200 € 276	99 41 60 6.60.8R300 € 330	
Solo per art.606 Only for art.606		PER UNA MAGGIORE APERTURA - FOR MORE OPENING CAPACITY			
Art. 604PC	Piastra ganascia fissa di partenza per cubo-morsa Fixed start jaw plate for vise tower				
		A 150 W 49 J 20 B 25 Cod. 6.60.4PC10 € 754	230 74 25 40 6.60.4PC20 € 880	290 99 30 60 6.60.4PC30 € 1.005	
*Scegliere la dimensione A in funzione del cubo utilizzato, vedi Art.603 a pag. 6.31 Referring to the cube you are using, choose dimension "A", see Art.603 page. 6.31					
Art. 79 R	Tassello di allineamento regolabile per Multiflex montata su cubo portapezzi Adjustable alignment pin for Multiflex vise mounted on tombstone				
		Cod. 6.79.R1000 € 23			
Art. 297 R	Tassello di allineamento per Multiflex montata su cubo portapezzi Alignment key-nut for Multiflex vise mounted on tombstone				
		Cod. 6.29.7R100 € 19			
Art. 370EM	Arresto laterale magnetico Magnetic workstop				
		Cod. 7.37.02000/EM € 75			
Art. 376	Chiave a T T wrench				
		CH 6 Cod. 0.09.23600 € 18	8 0.09.24800 € 19	10 0.09.25100 € 21	14 0.09.27140 € 23

SERRAGGIO A CUNEO DISCENDENTE

JAWS WEDGE CLAMP

Tipo (grandezza) / Type (size)		1	2	3
	kN	15	30	60
Art.723A				
Ganascia liscia con fori filettati Smooth jaw with holes				
	W	31	42	58
	C	16	23	30
	ØD	M8	M12	M16
	E	2	3,5	4
	G	7,5	11,5	15
	H	12	18	26
	J	27 ÷ 32	42 ÷ 49	57 ÷ 66
	L	20	30	35
	ØT	M5	M5	M5
	Cod.	6.72.3A100	6.72.3A200	6.72.3A300
	€	105	122	140

Acciaio Temprato - Hardened Steel

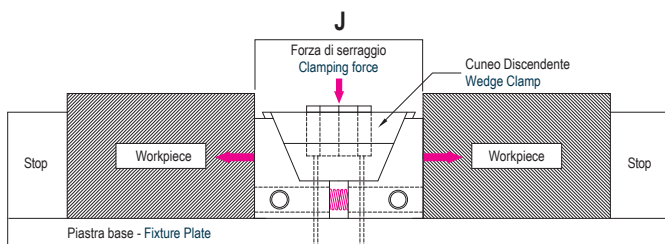
Tipo (grandezza) / Type (size)		1	2	3
	kN	15	30	60
Art.723B				
Ganascia zigrinata Serrated jaw				
	W	31	42	58
	C	16	23	30
	ØD	M8	M12	M16
	E	2	3,5	4
	J	27 ÷ 32	42 ÷ 49	57 ÷ 66
	L	20	30	35
	ØT			
	Cod.	6.72.3B100	6.72.3B200	6.72.3B300
	€	105	122	140

Acciaio Temprato - Hardened Steel

Tipo (grandezza) / Type (size)		1	2	3
	kN	15	30	60
Art.723C				
Ganascia lavorabile Machineable jaw				
	W	31	42	58
	C	16	23	30
	ØD	Ø56	Ø56	Ø76
	E	2	3,5	4
	J	33 ÷ 38	52 ÷ 59	67 ÷ 76
	L	20	30	35
	ØT			
	Cod.	6.72.3C100	6.72.3C200	6.72.3C300
	€	160	189	226

NON Temprato - NOT Hardened

Grazie alla vite di serraggio viene premuto il cuneo verso il basso generando una forza di serraggio laterale
 Tightening of clamping screw presses the wedge to generate clamping force sideways



	J								
	min.	Valore consigliato Suggested value	max.	min.	Valore consigliato Suggested value	max.	min.	Valore consigliato Suggested value	max.
Art. 723 A/B	27	29÷30	32	42	45÷46	49	57	61÷63	66
Art. 723 C	33	35÷36	38	52	55÷56	59	67	71÷73	76

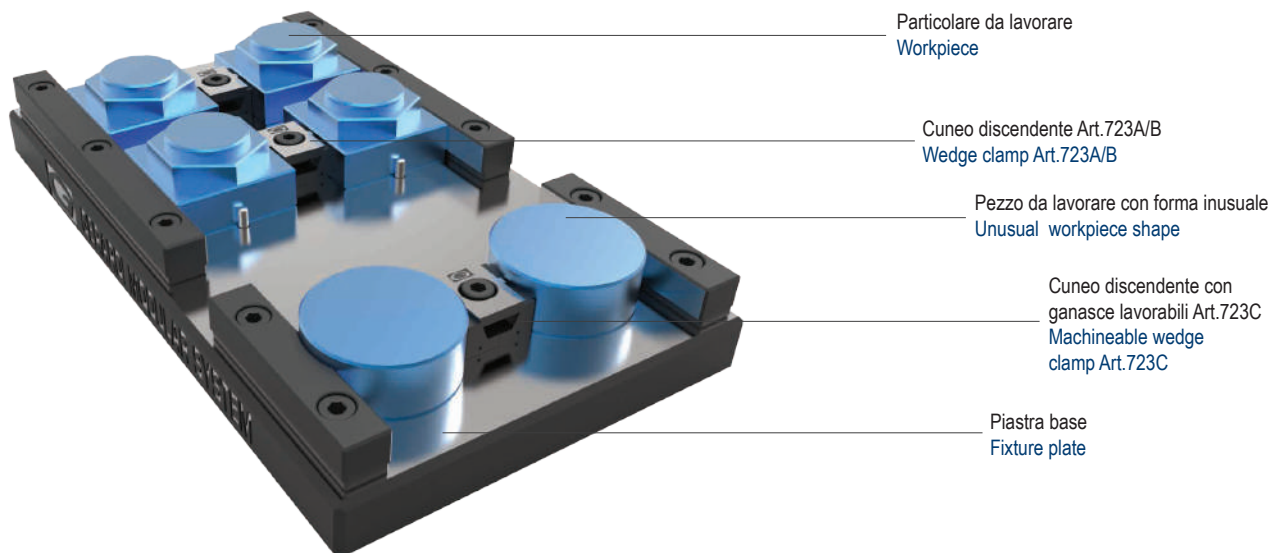
Il nuovo design migliorato e brevettato con molla inferiore assicura una maggiore forza di serraggio verso il basso.
 Improved patented design with bottom spring ensures downward clamping force

SERRAGGIO A CUNEO DISCENDENTE

JAWS WEDGE CLAMP

Se il tuo pezzo è adatto per il serraggio con i moduli di serraggio a cuneo discendente Gerardi, il nostro team è in grado di progettare e produrre un'attrezzatura di serraggio multipla come quello mostrato in figura. Mandateci le vostre richieste con le specifiche del pezzo o della tavola macchina del vostro centro di lavoro per consentirci di verificare l'idoneità dei nostri moduli di serraggio a cuneo discendente e presentare un'offerta adatta a voi.

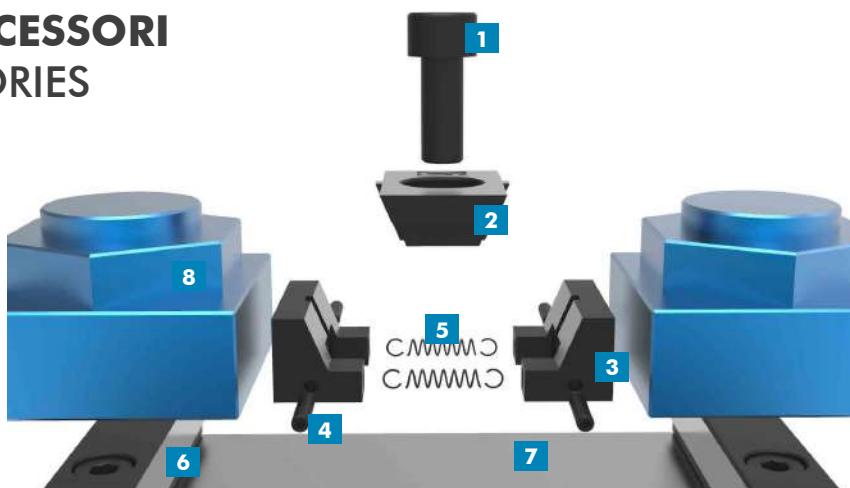
If your workpiece is suitable for clamping with Gerardi wedge clamps, our team can design and manufacture a multiple clamping fixture for you as the one shown in the picture. Please send us your enquiries with workpiece + machine table specifications of your machining center to enable us check suitability of our wedge clamps and submit an offer to you



PARTI DI RICAMBIO e ACCESSORI

SPARE PARTS and ACCESSORIES

- | | | | |
|----------|---|----------|--|
| 1 | VITA TESTA ESAGONALE
HEXAGONAL HEAD SCREW | 5 | MOLLE
SPRINGS |
| 2 | CUNEO DI SPINTA
WEDGE CLAMP | 6 | ARRESTI LATERALI
WORKSTOPS |
| 3 | GANASCE MOBILI
MOVABLE JAW | 7 | PIASTRA BASE
BASE PLATE |
| 4 | GRANI
GRAIN | 8 | PEZZI DA LAVORARE
WORKPIECES |



ESEMPI APPLICATIVI

BESPOKEN APPLICATION'S EXAMPLES

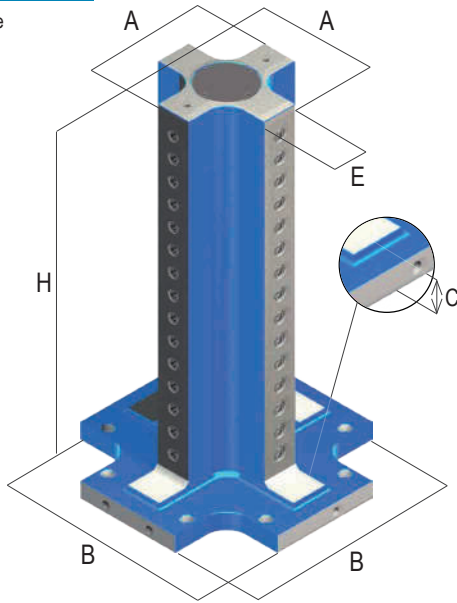


Sovratavola con sistema di serraggio a cunei discendenti per un serraggio di due pezzi contemporaneamente con un solo cuneo. Il tutto è montato su piastra ZeroPoint.
 Head plate interfaced for clamping system with descending wedges. For clamping of two pieces simultaneously with only one wedge. All the fixture is mounted on a Zero Point plate.



Sovratavola ZeroPoint con sistema di serraggio a cunei discendenti su file multiple. Questo consente un serraggio di due pezzi contemporaneamente con un solo cuneo. Il tutto è montato su piastra ZeroPoint.
 Head plate interfaced for clamping system with descending wedges on multiple rows. For clamping of two pieces simultaneously with only one wedge. All the fixture is mounted on a Zero Point plate.

Dimensioni - Dimensions
Art. 57F

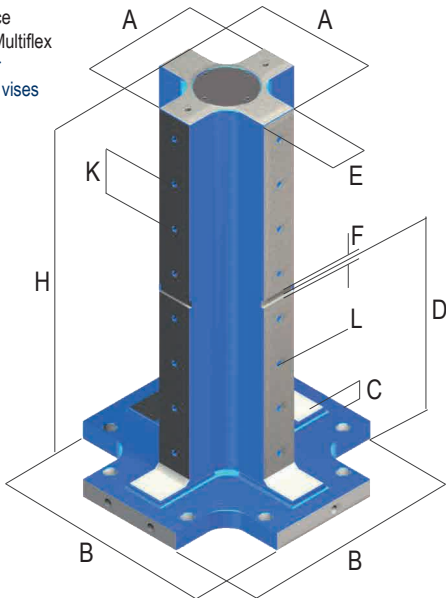
 Cubo a croce
 Cross tower


A	B	C	E	H	kg	Art. 57F 40		Art. 57F 50	
						Cod.	€	Cod.	€
200	500	40	80	750	154	8.57.F40100	2.881	8.57.F00100	2.809
200	500	40	80	650	140	8.57.F40105	2.965	8.57.F00105	2.726
250	500	40	80	750	194	8.57.F40106	3.453	8.57.F00106	3.004
270	500	40	80	850	232	8.57.F40110	4.010	8.57.F00110	3.362
230	500	40	110	850	214	8.57.F40120	3.861	8.57.F00120	3.254
300	500	40	150	850	264	8.57.F40130	4.740	8.57.F00130	4.116
300	630	40	150	950	322	8.57.F40140	5.813	8.57.F00140	4.645
370	500	40	200	950	379	8.57.F40145	6.692	8.57.F00145	5.614
400	500	50	100	850	228	8.57.F.40150	5.366	8.57.F00150	4.473
1000	1250	40	600	900	1554	8.57.F40250	-	8.57.F00250	41.249

Art. 57F 40

 Croce a reticolo con bussole temprate 100Cr6 e filetti riportati in acciaio inox. Tolleranza $\pm 0,02$ mm
 ■ Interasse reticolo 40 mm = $\varnothing 12 / M10$
 ■ Interasse reticolo 50 mm = $\varnothing 16 / M12$
Art. 57F 50

 Crosscube grid type with hardened bushing 100Cr6 and inox steel helicoils. Tolerance $\pm 0,02$ mm
 ■ Grid pitch 40 mm = $\varnothing 12 / M10$
 ■ Grid pitch 50 mm = $\varnothing 16 / M12$
Dimensioni - Dimensions
Art. 57G

 Cubo a croce per morse Multiflex
 Cross tower for Multiflex vises


A	B	C	D	E	F	H	K	L	kg	Cod.	€
200	500	40	350	80	16	750	50	M12	154	8.57.G00100	2.531
200	500	40	350	80	16	650	50	M12	140	8.57.G00105	2.512
250	500	40	400	80	16	750	50	M12	194	8.57.G00106	2.726
270	500	40	450	80	16	850	50	M12	232	8.57.G00110	3.254
230	500	40	450	110	16	850	50	M12	214	8.57.G00120	3.070
300	500	40	450	150	16	850	50	M12	264	8.57.G00130	3.684
300	630	40	500	150	16	950	50	M12	322	8.57.G00140	4.053
370	500	40	500	200	16	950	50	M12	379	8.57.G00145	5.178
400	500	50	450	100	16	850	50	M12	228	8.57.G00150	3.221

Art. 79R

 Perno di allineamento regolabile per Multiflex montata su cubo portapezzi
 Adjustable alignment pin for Multiflex vise mounted tombstone


Cod.	6.79.R1000
€	23

Art. 297R

 Tassello di allineamento per Multiflex montata su cubo portapezzi
 Alignment key-nut for Multiflex vise mounted on tombstone


Cod.	6.29.7R100
€	19

Diagrammi di serraggio / Clamping diagrams

MULTIFLEX

Diagrammi di serraggio meccanico con chiave dinamometrica

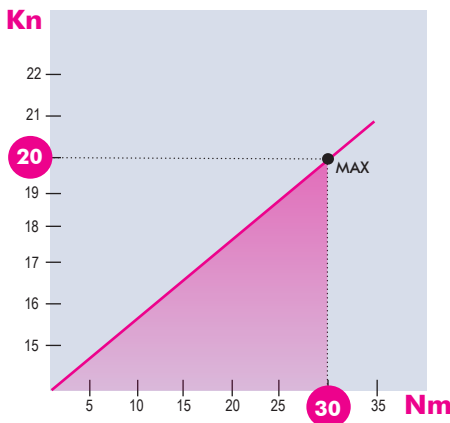
Mechanical clamping diagrams with torque wrench

Art. 357

Morse tipo Vises type

1

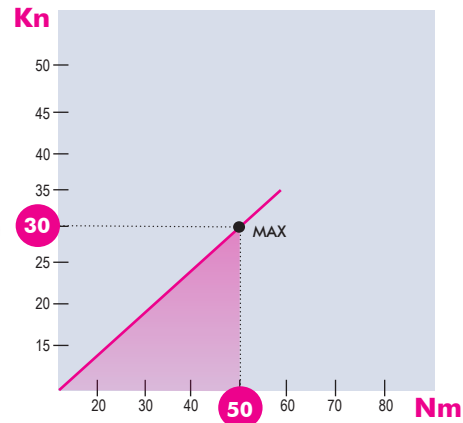
Cuneo di spinta:
Momento massimo applicato 40Nm
Clamping wedge: Torque 40Nm



Morse tipo Vises type

2

Cuneo di spinta:
Momento massimo applicato 120Nm
Clamping wedge: Torque 120Nm



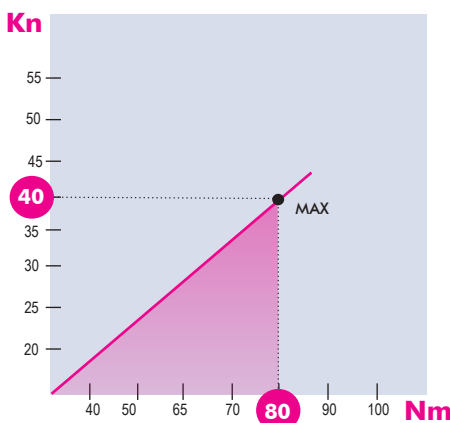
Gruppi di serraggio meccanici / Mechanical clamping device

I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con le morse di varia grandezza (da 1 a 3), in funzione della forza applicata.
The following diagrams give the clamping force that can be obtained with each vise type (size 1 to 3) depending on the force torque.

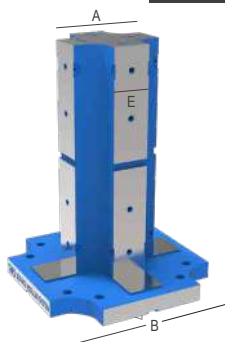
Morse tipo Vises type

3

Cuneo di spinta:
Momento massimo applicato 150Nm
Clamping wedge: Torque 150Nm



NB: Alcuni fattori, come la lubrificazione, lo staffaggio, gli attriti ed altro, possono modificare i valori indicati fino a $\pm 10\%$. Per un corretto utilizzo non superare i valori indicati nel grafico.
Some factor as lubrication, clamping on the machine table, frictions and more can modify above values within a $\pm 10\%$ range. For optimum operation do not exceed chart values.

MONTAGGIO MORSE in VERTICALE su CUBO INTERFACCIATO
WISE VERTICAL MOUNTING on COMPLETELY INTERFACED TOMBSTONES
Art. 57G
Cubo lavorata
Machined cube

 Dim. A=200 / B=500 /
 E= 80 H=650

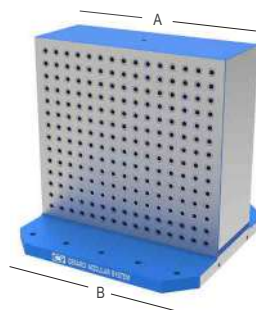
Cod. 8.57.G00105

€ 2.512
Art. 600
Tipo di morsa
Vise type

 Art.600 Type 2x600
€ 1.811

Cod. 6.60.02600

Numero morsa x 4
 Vises number

Tot. € 7.244
PREDISPOSIZIONE e MONTAGGIO MORSE su SPALLA a RETICOLO
TOMBSTONES SET-UP and VISES MOUNTING on 2 SIDES GRID TOMBSTONE
Art. 55F
Spalla a reticolo
2 sides grid tombstone


Dim. A=800 / B=800 / H=800

Cod. 8.55.F00191

€ 14.982
Art. 600
Tipo di morsa
Vise type

 Art.600 Type 2x700
€ 1.940

Cod. 6.60.02700

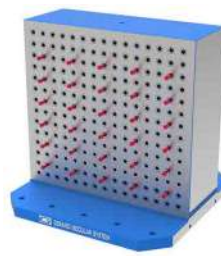
Numero morsa x 10
 Vises number

Tot. € 19.400
Montaggio ed allineamento (standard)
(Standard) Assembly and alignment


Cod. MAN-070-FMS

 Per morsa / each vise € 110
Tot. € 440

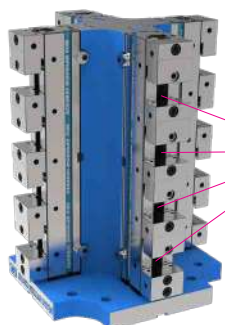
Montaggio di una o più morse e/o attrezzature già predisposte tra loro comprensivo di controllo manuale. Il prezzo di listino comprende manodopera, viti, staffe e tasselli per singola morsa.
 Assembly of one or more vises or equipments already interfaced between themselves complete of manual check. The list price includes working hours, screws, holding clamps and key-nuts for only one vise.

Montaggio ed allineamento (standard)
(Standard) Assembly and alignment


Cod. MAN-070-FMS

 Per morsa / each vise € 110
Tot. € 1.100

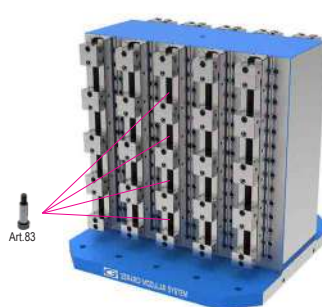
Montaggio di una o più morse e/o attrezzature già predisposte tra loro comprensivo di controllo manuale. Il prezzo di listino comprende manodopera, viti, staffe e tasselli per singola morsa.
 Assembly of one or more vises or equipments already interfaced between themselves complete of manual check. The list price includes working hours, screws, holding clamps and key-nuts for only one vise.

Cubo con morsa
Cube with vises


Art.83

Tot. € 10.196

 TABULATO controllo DEA - MAN-100-FMS : € 220 Extra
 PRINTOUT DEA control - MAN-100-FMS : € 220 Extra

Spalla con morsa
2 sides tombstone with vises


Art.83

Tot. € 35.482

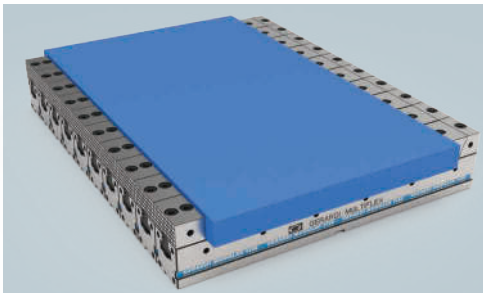
 TABULATO controllo DEA - MAN-100-FMS : € 220 Extra
 PRINTOUT DEA control - MAN-100-FMS : € 220 Extra

Soluzioni personalizzate / Customized solutions

MULTIFLEX

Soluzioni personalizzate a tutti i vostri problemi di serraggio

Customized solutions for all your clamping problems

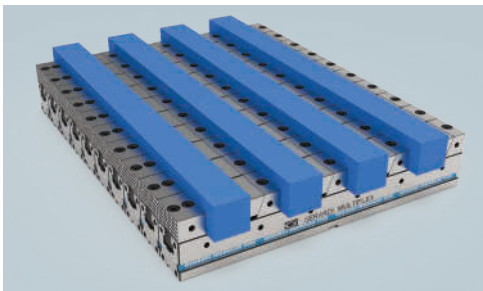


Montaggio in parallelo

Parallel mounting

n° 10 morse Multiflex montate in parallelo per il serraggio di un pezzo di grosse dimensioni

10 Multiflex vises parallel mounting for clamping a big size workpiece

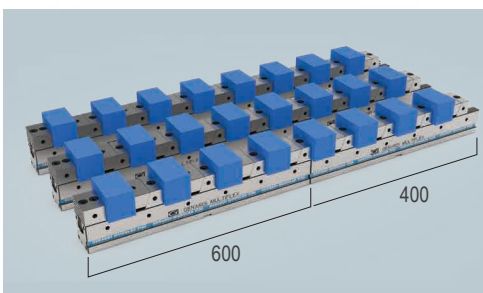


Montaggio in parallelo

Parallel mounting

n° 10 morse Multiflex montate in parallelo per il serraggio di 4 pezzi di grosse dimensioni

10 Multiflex vises parallel mounting for clamping a 4 big size workpieces

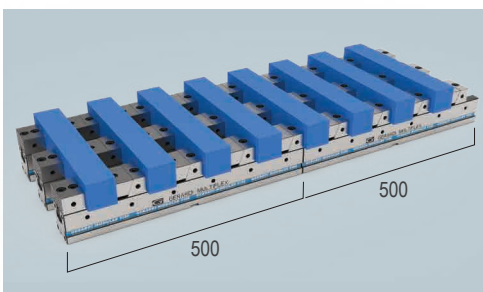


Montaggio in linea

In line mounting

n° 6 morse Multiflex montate in linea per il serraggio di 24 piccoli pezzi

6 Multiflex vises in line mounting for clamping a 24 small workpieces

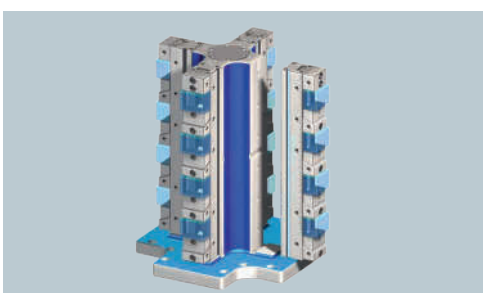


Montaggio in linea

In line mounting

n° 6 morse Multiflex montate in linea per il serraggio di 8 pezzi di grosse dimensioni

6 Multiflex vises in line mounting for clamping a 8 big size workpieces



Cubo Morsa

Tombstone + vises

Cubo a croce Art.57G con vari tipi di morse Gerardi montate verticalmente

Crosscube Art.57G with various Gerardi vises vertically assembled

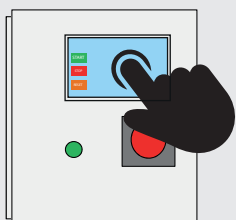
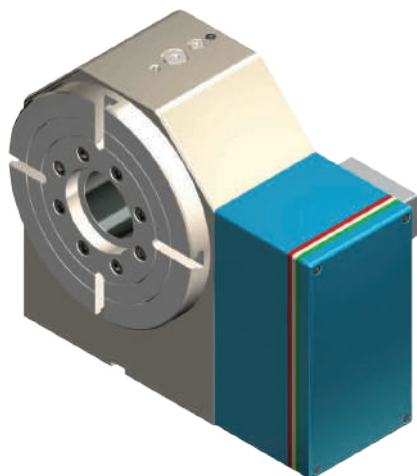
DIVISORE AUTOMATICO DPG 250

AUTOMATIC DIVIDING HEAD DPG 250

Divisore automatico
Automatic dividing head

Dati tecnici
Technical Data

DPG 250



PROGRAMMAZIONE TOUCH SCREEN
FACILE ED INTUITIVA O TRAMITE COLLEGAMENTO
DIRETTO AL CNC

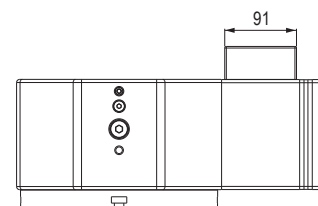
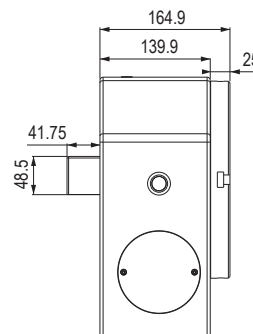
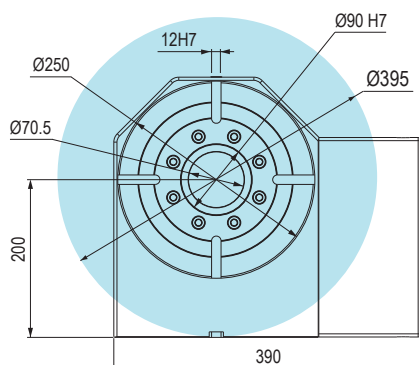
EASY AND INTUITIVE TOUCH SCREEN
PROGRAMMING OR THROUGH DIRECT
CONNECTION TO THE CNC

- Installazione semplice (alimentazione 220V)
- Corona in bronzo speciale
- Controsupporto semplice
- Vite senza fine in acciaio temprato e rettificato
- Vite e corona in bagno d'olio
- Cuscinetti a vite precaricati
- Cuscinetto anteriore a rulli incrociati sovradimensionato
- Recupero gioco con avvicinamento assiale
- Completa tenuta stagna ai liquidi con possibilità di pressurizzazione
- Possibilità di montare motori di tutte le marche
- Dimensioni esterne contenute
- Finestra di controlli liquidi e condensa
- Lavorazione in posizionamento a 360°

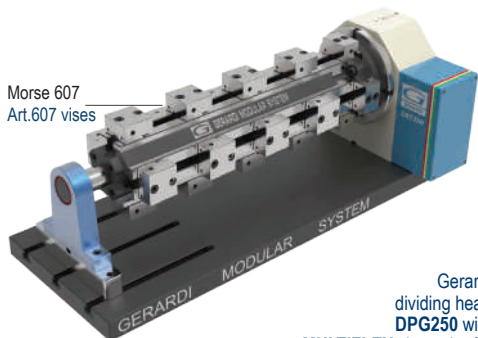
- Easy installation (220V)
- Special bronze crown
- Simple tailstock
- Worm screw in hardened ground steel
- Bath lubrication Screw and Crown
- Pre-loaded screw bearings
- Over-dimensioned crossed-roller front bearing
- Play recover with axial approach
- Watertight seal with possibility of pressurization
- Possibility to mount motors of all brands
- Reduced external dimensions
- Condensation and liquid control window
- 360° work positioning

Diametro del divisore Dividing head diameter		250 mm
Diametro del foro passante Clearance hole diameter		70,5 mm
Altezza punta Center height		200 mm
Dimensione della scanalatura a T T-Slot width		12 mm
Sistema di bloccaggio Clamping system		Idrraulico Hydraulic
Forza frenante Clamping torque		3000 Nm
Motore Servo motor		3000 Max.g/min
Minimo incremento Minimum increment		0,002
Velocità di rotazione Rotation speed		33,3 Giri/min
Rapporti vite/corona Speed reduction ratio (screw/gear)		1/90
Rapporti vite/motore Speed reduction ratio (screw/motor)		1/180
Precisione Indexing accuracy		±10 Sec.
Ripetibilità Repeatability		4 Sec.
Max. carico di lavoro sul divisore Max. allowable work weight on the dividing head	Verticale Vertical	Kg.550
	Orizzontale Horizontal	Kg.1500
Max. carico di spinta applicabile sul divisore Max. allowable tool load on the dividing head		N 25000
		FxL Nm 1000
		FxL Nm 2200
Rapporti vite/corona Speed reduction ratio (screw/gear)	Verticale Vertical	10,5 Kg. m ²
Coppia in lavoro Driving torque	Corona dentata Worm gear	698 Nm
Kg		110
Cod.		8.DP.G2500
€		22.533

DPG 250



Tipo (grandezza) / Type (size)		1					2			
Divisore Gerardi DPG250 con cubo-morsa MULTIFLEX per il serraggio di particolari di tutte le forme e dimensioni.	C ⁻⁰ _{-0,02}	100					150			
	D	300	400	500	600	700	400	500	600	700
	G ⁻⁰ _{-0,02}	50					75			
	Ø I ^{H7}	25					50			
	L ⁻⁰ _{-0,02}	20					20			
Cod.	6.DP.G25000	6.DP.G25010	6.DP.G25020	6.DP.G25030	6.DP.G25040	6.DP.G25050	6.DP.G25060	6.DP.G25070	6.DP.G25080	
€	34.938	35.415	36.069	36.726	37.620	37.024	37.620	38.216	38.691	

 Morse 607
 Art.607 vises

 Gerardi
 dividing head
DPG250 with
MULTIFLEX vise-cube for
 clamping workpieces of all
 shapes and sizes.

 Nel caso si disponga di un proprio divisore, il prezzo dell'attrezzatura potrebbe subire variazioni
 In case you already have a diverger, the price may be revised

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !
Art. 99A

 Supporto
 Support


Cod. 7.99.A1000

 € **717**
Art. 99B

 Perno di centraggio completo
 di sistema d'allineamento
 Horizontal centering pin with alignment system


Cod. 6.99.B1000

6.99.B2000

 € **956** **993**
Art. 99H

 Distanziale per supporto
 Spacer support


Cod. 6.99.H1000

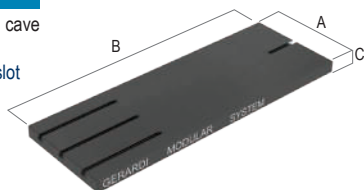
 € **122**
Art. 62K
DPG 250

 Piastra di interfaccia per cubo MULTIFLEX
 completa di sistema d'allineamento
 Connecting plate with alignment system for MULTIFLEX


Cod. 6.62.K603A8

6.62.K603A9

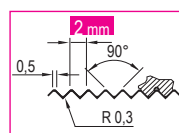
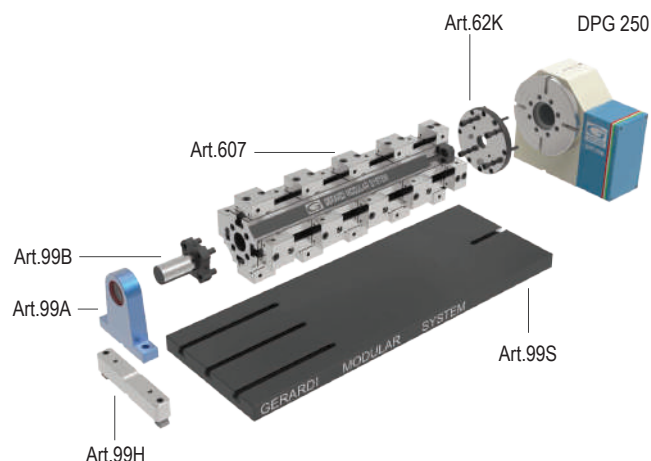
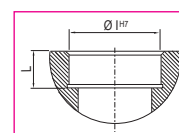
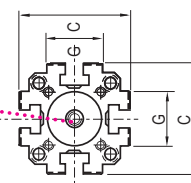
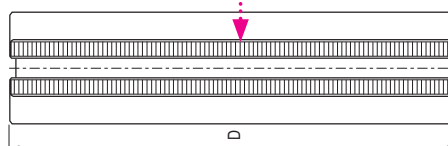
 € **1.494** **1.494**
Art. 99S

 Piastra base con cave
 Piani rettificati
 Base plate with slot
 Faces ground


Dimensioni B mm Dimension B mm	A	C	Kg	Cod.	€
600	400	50	94	7.99.S060S	2.089
800	400	50	125	7.99.S080S	2.327
1000	400	50	156	7.99.S100S	2.506

 Cave o fori calibrati su richiesta
 Slot or calibrated holes on request

Disponibili quote "B" a step di 50mm - Available dimension "B" in steps of 50mm


 2 mm =
 Passo delle righe
 Rows pitch

 Foro di centraggio
 Centering hole


DIVISORE MECCANICO DIVIGER 205


MECHANICAL DIVIDING HEAD DIVIGER 205

Divisore automatico
Automatic dividing head

Dati tecnici
Technical Data

DIVIGER 205

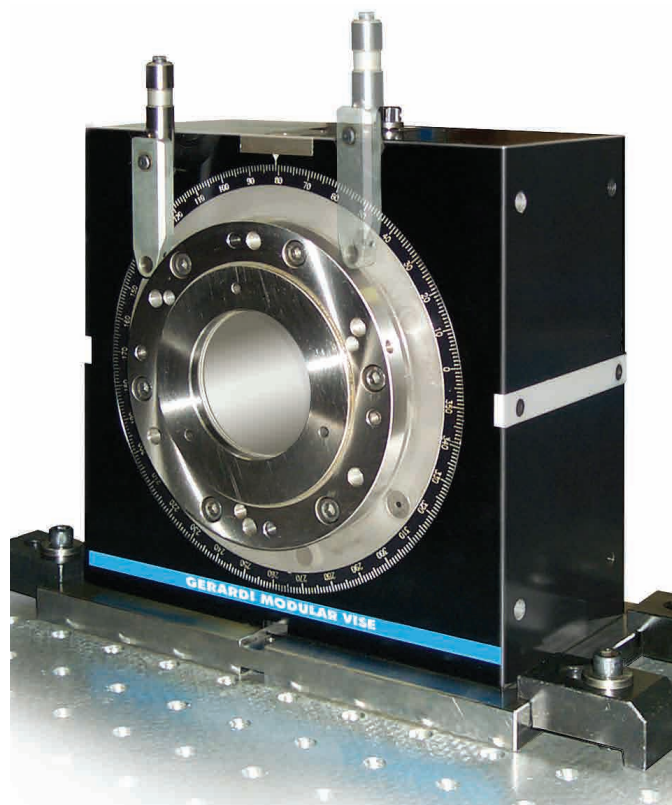


Diametro del divisore Dividing head diameter	220 mm
Diametro del foro passante Clearance hole diameter	85 mm
Altezza centrale Center height	200 mm
Dimensione della scanalatura a T T-Slot width	-
Sistema di bloccaggio Clamping system	Meccanico Mechanical
Minimo incremento Minimum increment	1°
Precisione Indexing accuracy	±10 Sec.
Coppia in lavoro Driving torque	 3000 Nm
Kg	93
Cod.	7.66.73000
€	13.056

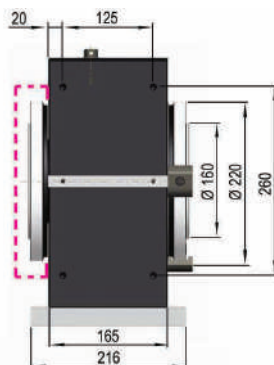
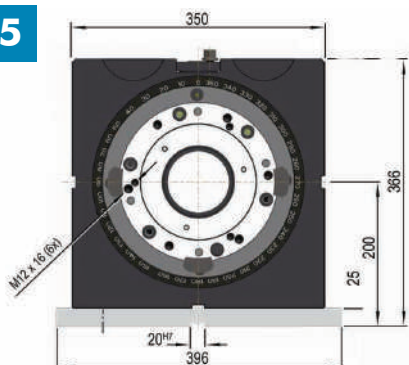
DIVISORE MECCANICO, SENZA CAVI O IDRAULICA,
PERMACCHINE A CNC

MECHANICAL DIVIDING HEAD, WITHOUT ELECTRICAL CABLES
OR HYDRAULIC, FOR CNC MILLING MACHINE

- Maggiore efficienza nella lavorazione su più lati
- Completamente autonomo dalla macchina
- Elevato momento torcente
- Divisione manuale o automatica tramite mandrino macchina
- 360 posizioni
- Serraggio simultaneo di due particolari grazie alla doppia flangia
- lavorazione su 5 facce senza contropunta
- Lavorazione a barra grazie al mandrino cavo
- Utilizzabile orizzontalmente o verticalmente
- Cambio tramite serraggio a cuneo
- Cost-effective on multiple-sides machining
- Machine independent
- High holding torque
- Dividing manually or automatically using the machine spindle
- 360 x 1° division
- Simultaneous clamping of 2 workpieces thanks to the dual flange
- 5 faces machining without counter-holder
- Bar machining due to hollow spindle
- To be used horizontally or vertically
- Quick change through wedge clamping



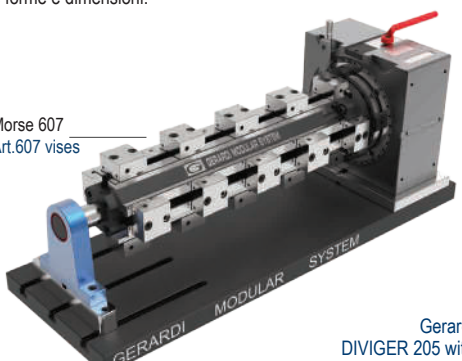
DIVIGER 205



Tipo (grandezza) / Type (size)	1					2			
C ⁻⁰ / _{-0.02}	100					150			
D	300	400	500	600	700	400	500	600	700
G ⁻⁰ / _{-0.02}	50					75			
Ø I ^{H7}	25					50			
L ⁻⁰ / _{-0.02}	20					20			
Cod.	6.DI.V20500	6.DI.V20510	6.DI.V20520	6.DI.V20530	6.DI.V20540	6.DI.V20550	6.DI.V20560	6.DI.V20570	6.DI.V20580
€	25.460	36.665	26.593	27.249	28.143	27.548	28.143	28.739	29.216

Divisore Gerardi **DIVIGER 205** con cubo-morsa **MULTIFLEX** per il serraggio di particolari di tutte le forme e dimensioni.

Morse 607
Art.607 vises



Gerardi **DIVIGER 205** with **MULTIFLEX** vise-cube for clamping workpieces of all shapes and sizes.

Nel caso si disponga di un proprio divisore, il prezzo dell'attrezzatura potrebbe subire variazioni
In case you already have a diverger, the price may be revised

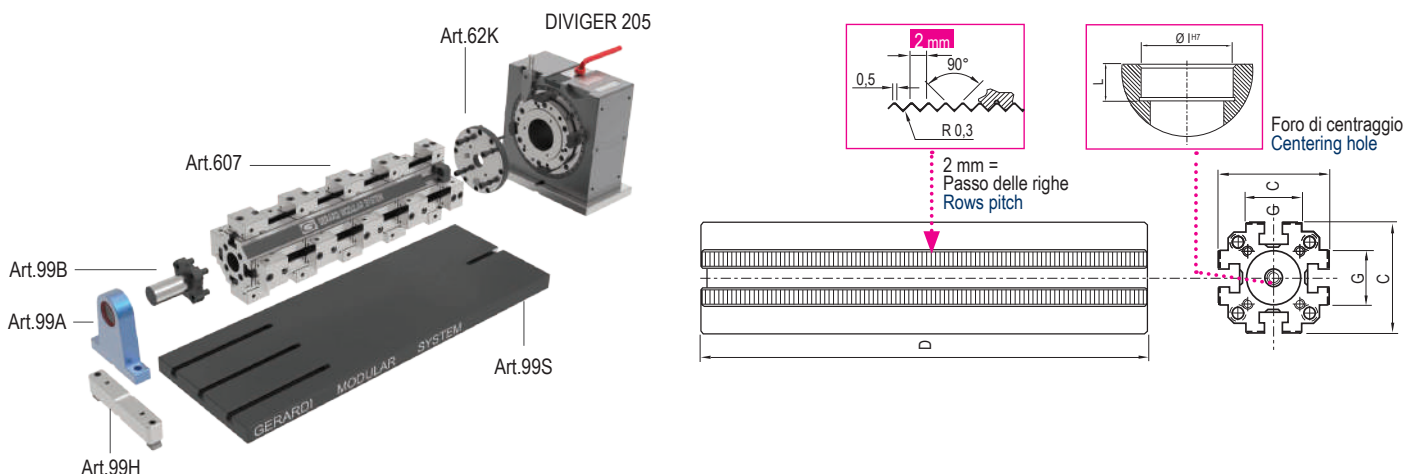
UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art. 99A		Cod.	7.99.A1000	
Supporto Support		€	717	
Art. 99B		Cod.	6.99.B1000	6.99.B2000
Perno di centraggio completo di sistema d'allineamento Horizontal centering pin with alignment system		€	956	993
Art. 99H		Cod.	6.99.H1000	
Distanziale per supporto Spacer support		€	122	
Art. 62K DIVIGER 205		Cod.	6.62.K603A8	6.62.K603A9
Piastra di interfaccia per cubo MULTIFLEX completa di sistema d'allineamento Connecting plate with alignment system for MULTIFLEX		€	1.165	1.165

Art. 99S	Dimensioni B mm Dimension B mm	A	C	Kg	Cod.	€
Piastra base con cave Piani rettificati Base plate with slot Faces ground	600	400	50	94	7.99.S060S	2.089
	800	400	50	125	7.99.S080S	2.327
	1000	400	50	156	7.99.S100S	2.506

Cave o fori calibrati su richiesta
Slot or calibrated holes on request

Disponibili quote "B" a step di 50mm - Available dimension "B" in steps of 50mm



ISTRUZIONI PER UN CORRETTO UTILIZZO

INSTRUCTIONS FOR A PROPER USE



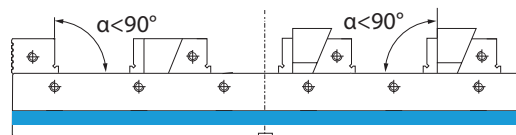
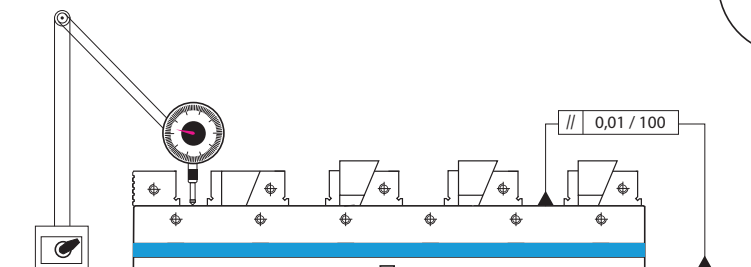
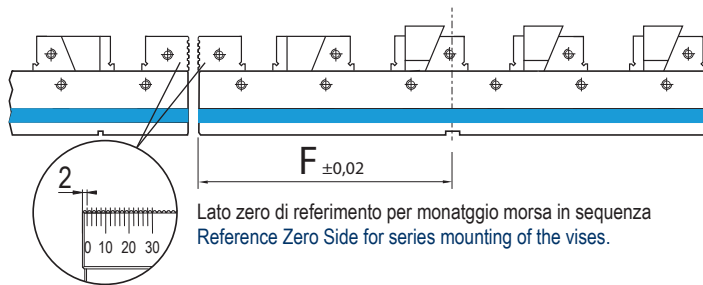
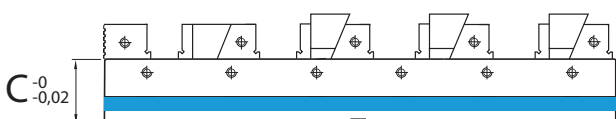
Libretto Istruzioni / Instruction Book

Scansiona il QR code e scarica le istruzioni complete

Scan the QR code to download the complete instructions

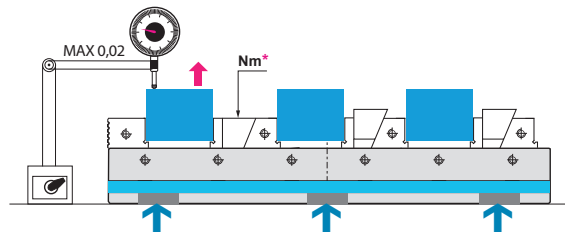
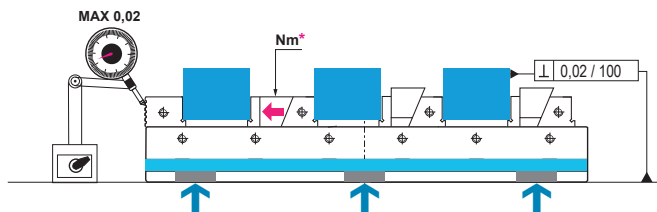
TOLLERANZE GEOMETRICHE

GEOMETRIC ACCURACIES



TOLLERANZE DINAMICHE

DINAMIC ACCURACIES



Morsa ancorata con 2 coppie di staffe Art. 296 / Vise clamped with n. 2 pairs of Art. 296

Art 600 - 606 - 611		* Momento applicato - Torque Nm			Forza di serraggio - Clamping power KN			
		Ganascia fissa e Cuneo di posizionamento Fixed jaw and positioning Wedge	Cuneo di spinta - Clamping movable Jaw			Cuneo di spinta - Clamping movable Jaw		
			Morsa - Vise Art. 600	Morsa - Vise Art. 606	Morsa - Vise Art. 611	Morsa - Vise Art. 600	Morsa - Vise Art. 606	Morsa - Vise Art. 611
Ganascia Tipo 1	Jaw Type 1	40	30		20			
Ganascia Tipo 2	Jaw Type 2	120	50		30			
Ganascia tipo 3	Jaw Type 3	250	80		40			

1 kgf . m = 9.806 Nm



7

*For 5th axis
machining centres!*

MULTITASKING

Morse / Vises

INDICE - INDEX

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62iE	46	647	10	670ID	57				
62M	17 - 31	650	20 - 24	670IDL	60				
63	24	650A	24	670K	60				
64	24	650B	24	670P	60				
72P	46	650BM	28	670PN	56				
72CP	47	650C	24	671A	56 - 60				
79	11 - 15 - 29	650CM	28	671B	56 - 60				
81P	24	650D	24	671C	56 - 60				
82P	46	650DTICN	24	680H	52 - 53				
83	60	650E	24	680U	50				
220	50	650G	29	682K	50				
243	56 - 60	650R	26	683K	50				
245	56 - 60	650S	26	684	51				
247G	60	650T G01	20 - 26	685	50				
296	6	650T G02	20 - 26	690	63				
297	11 - 15 - 29	650T G11	20 - 26	690DTF	29 - 63				
297X	29	650X	20 - 27	690G	63				
298/CGR	29	650Y	27	740PB	42				
370EM	29	650V	27	740QC	42				
375	29	650U G01	27	740ZPS	42				
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395GM	59	650U G11	27	868	48				
396GM	59	651H	20 - 22 - 30	868D	48				
398GM	59	655B	12 - 15	868E	48				
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403	59	655F	12 - 15	950B	22 - 28				
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640A	10 - 14	655L	26	950D	22 - 28				
640B	10	655M	26	950X	28				
640C	10	655N	26	986	3				
640D	10 - 14	655P	26	PN16	60				
640E	10 - 14	660	20 - 22 - 34 - 50	PN22	60				
640J	12 - 13	660	35 - 37 - 39 - 41 - 43 - 44	ISTR	68				
640T	8 - 9	660B	34						
640P	11 - 15 - 29	660R	34						
641	10 - 14	660S	34						
641H	8 - 12 - 16	661	40						
642	10	661D	36						
643	10	661H	44						
643H	45	661HQ	44						
644	10 - 14	661R	40						
645B	8 - 11	661S	40						
645C	8 - 11	661SPB	36						
645D	8 - 11	662D	36						
645E	8 - 10 - 11	662S	38						
645F	8 - 11	670AP	58						
645T	8 - 11	670CP	58						
645JD	14								
645JS	14								

VALIGETTA DI CAMPIONATURA COMPACT GRIP

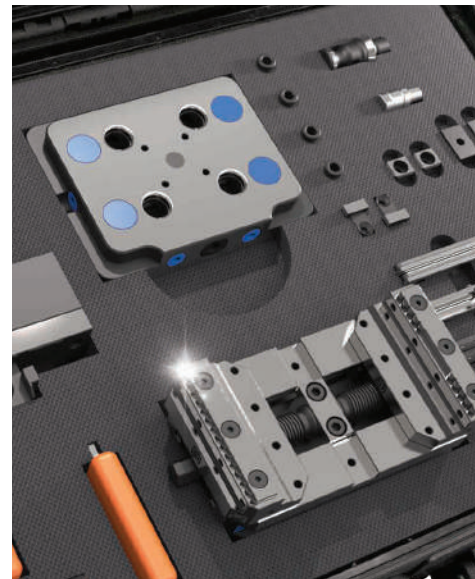
SAMPLE KIT CASE COMPACT GRIP

Art. 986



Art. 650 - All'Interno - Inside:

Art. 11A	Art. 650X	Art. 950D	Art. 950B
Art. 660B	Art. 79	Art. 650G11	Art. 650G02
Art. 650G01	Art. 650R	Art. 650S	Art. 298/CGR
Art. 297	Art. 370/EM	Art. 375	Art. 376
Art. 650G	Art. 650GZ		



Morsa / Vise Art. 650

Cod. 0.98.60000

PRICE LIST € ~~2.854~~

SPECIAL PRICE € **1.350**

SIMBOLOGIA DATI TECNICI

TECHNICAL DATA ICONS

GANASCE JAWS						POSSIBILITÀ POSSIBILITY						
	Morse Multitasking vises	Morse Compact Grip Compact Grip vises	Morse Compact Grip Art. 950 Compact Grip vises	Morse Grip Matic Grip Matic vises	Sistema a coda di rondine Dove Tail fixtures		Montaggio con centralina Mounting with power unit	Lavorazioni a 5 assi 5 axis machining	Predisposizione Zero Point Zero Point Ready			
PIASTRE GANASCE JAW PLATES						PAGINE PAGES						
	Liscio + Ruvido Smooth + Rough	Coda di Rondine Dove Tail	GRIP GRIP	Frontali Frontal	Rialzi Risers		Sistema Pneumatico Pneumatic system	Sistema Idraulico Hydraulic system	Accessori & Ricambi Accessories & Spare Parts	Istruzioni corretto utilizzo Instruction for a proper use	Diagrammi forze di serraggio Clamping force diagrams	

OPZIONI LAVORAZIONI EXTRA

OPTIONS FOR EXTRA MACHINING

Nei codici, **FMS** si riferisce agli articoli dei gruppi 5, 6 e 7.
 In codes, **FMS** refers to articles in groups 5, 6 and 7.

Lavorazione extra Extra machining	Cod.	PRICE LIST €	Lavorazione extra Extra machining	Cod.	PRICE LIST €
AGGIUNTA di un foro calibrato ADDITION of a calibrated hole	MAN-010-FMS	110	MONTAGGIO SEMPLICE SIMPLE ASSEMBLY	MAN-060-FMS	-
AGGIUNTA di una chiave calibrata ADDITION of a calibrated key-way	MAN-020-FMS	110	MONTAGGIO ed ALLINEAMENTO (Standard) (Standard) ASSEMBLY and ALIGNMENT	MAN-070-FMS	110
PREDISPOSIZIONE SEMPLICE SIMPLE SET UP	MAN-030-FMS	110	MONTAGGIO VERTICALE COMPLETE VERTICAL ASSEMBLY	MAN-080-FMS	165
PREDISPOSIZIONE & MONTAGGIO COMPLETO COMPLETE SET UP & MOUNTING	MAN-040-FMS	220	ALLINEAMENTO e CONTROLLO tramite DEA ALIGNMENT and CONTROL by DEA \ CMM	MAN-090-FMS	440
MONTAGGIO PARZIALE PARTIAL ASSEMBLY	MAN-050-FMS	110	TABULATO controllo DEA PRINTOUT DEA control	MAN-100-FMS	220

Vedi pagina 7.64 per esempi applicativi - See page 7.64 for application examples

Multitasking & CompactGrip vises

MULTITASKING


 Precisione / Accuracy
 $\pm 0,02\text{mm}$

 Durezza / Hardened
HRC 58 \pm 2

Morse autocentranti per applicazioni avanzate su centri a 5 assi

Vises for advanced applications on 5 axis machining centres

SERIE MULTITASKING MULTITASKING SERIES

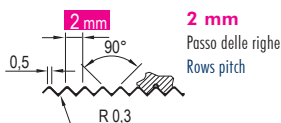
Ganasce da 74 a 140 mm. Ancoraggio diretto o tramite staffe / Posizionamento tramite fori calibrati o chiavette / Eccentriche: possibilità di disassamento centraggio per multipli di 1 mm (Auto-centraggio fuori asse) / Autocentranti con serraggi concentrici dall'esterno all'interno e viceversa / Minimi ingombri e massima rigidità / Costruzione solida e compatta a massima apertura rispetto agli ingombri / Disponibili serie di ganasce intercambiabili / Ganasce integrali per massima rigidità

Jaws widths from 75 to 140 mm. Direct vise set-up or through vise clamps / Positioning through ground holes or keyways / Self-centering with possibility to clamping from outside to inside and viceversa / Eccentric jaw adjustment in steps of 1 mm (Multiaxis self-centering) / Minimum deflection and overall dimensions / Solid and rigid construction and maximum clamping ratio to the total length / Series of interchangeable jaws available / Solid jaws (integral with the slides) for highest rigidity


Art. 640

Multitasking

Le tonde - The rounded


 2 mm
 Passo delle righe
 Rows pitch


Versatilità - Versatility

Possibilità di posizionare, aggiungere o rimuovere le ganasce su qualsiasi posizione della dentatura della base.

Possibility of jaws positioning, addition or remove on whatever position on the vise base teeth

Autocentranti Self-centering

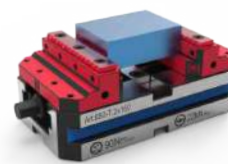
Veloce sistema di regolazione autocentrante regolabile dall'alto tramite tasselli di azzeramento forniti in dotazione
 Easy self-centering adjustment from the top by key-nuts supplied as standard equipment.



Versatilità - Versatility

Inseri riportati utilizzabili da entrambi i lati. Grande versatilità ottenuta Attraverso la possibilità di sostituire gli Inserti GRIP con diversi tipi di dentatura in modo facile e veloce (da utilizzare a seconda del materiale da lavorare).

Inserts to be used on both sides Another advantage will be the greatest versatility thanks to easiest and quickest GRIP top jaw inserts exchange with different types of teeth design to be used according the material to be clamped



Ganasce Reversibili Reversible Jaws

Versatilità grazie alle ganasce **MONOBLOCCO** reversibili e alle 4 opzioni di posizionamento della base (90°) ed ai fori frontali passanti.

Versatility also thanks to the **SOLID GUIDED** reversible jaws and to the 4 base positions option (90°) and to the front through holes.

Maggior forza di serraggio Highest clamping force

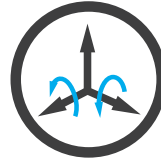
Design più compatto e leggero e maggior forza di serraggio rispetto a tutte le morse oggi sul mercato. Questo grazie alle viti di serraggio, alla loro posizione più prossima al particolare da lavorare e al design integrale di slitte e ganasce.

The most compact and lightweight vise, with greater clamping force than any other on the market. This thanks the innovative design of the clamping screws, which are positioned closer to the workpiece for maximum grip and the integral design of slides and jaws.



Di speciale interesse per gli utilizzatori di centri di lavoro a 5 assi, le morse MULTITASKING / COMPACT GRIP presentano le stesse caratteristiche costruttive illustrate per le morse della serie FMS e MULTIFLEX (accuratamente rettificate in acciaio ad alta resistenza cementato trattato termicamente). Nate espressamente per i centri a 5 assi, questa gamma di morse permette di intervenire sulle 5 facce del particolare in lavorazione con riferimenti precisi in spazi contenuti garantendo usure inesistenti e grande rigidità. Massima compatibilità con i sistemi di cambio pallet già esistenti sul mercato

Of special interest to 5 axis machining centres users MULTITASKING, COMPACTGRIP & GRIPMATIC vises present the same building characteristics of FMS and MULTIFLEX vises, (Heat treatment and ground steel construction throughout). Designed for 5 axis machines, this series of vises allow machining operations on the 5 workpieces sides with perfect alignment in a space saving design, extremely high wear resistance, with reduced deflection. Max compatibility with the most popular pallet change systems.



SCAN IT TO SEE



THE WEB PAGE



Autocentranti e Compatte

Selfcentering & Compact

Caratteristiche e Vantaggi:

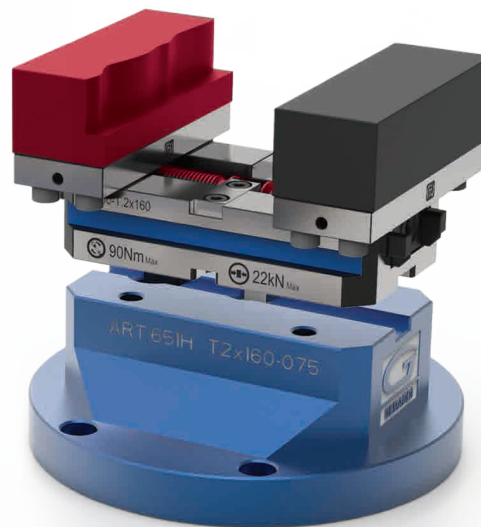
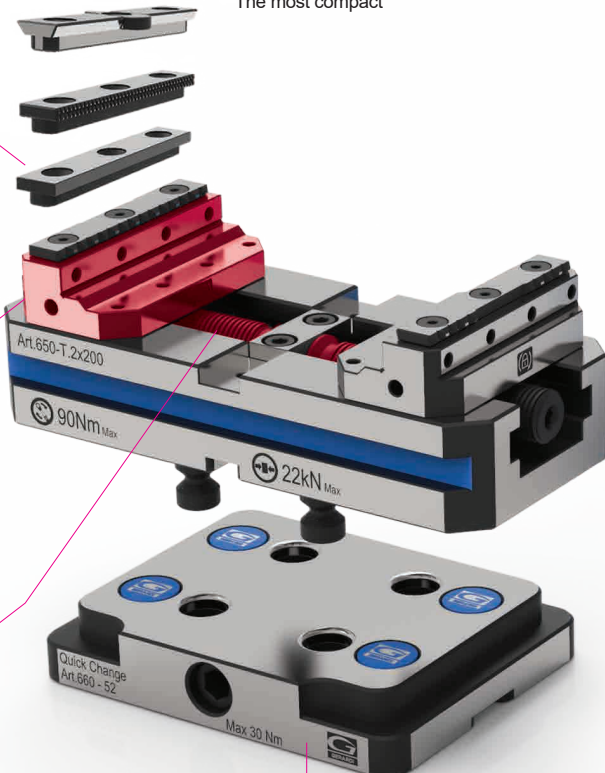
Features and Advantages:

- ✓ USURA INESISTENTE
- ✓ RAPIDITA' DEI SERRAGGI
- ✓ MODULARITA' & VERSATILITA'
- ✓ PRECISIONI $\pm 0,02$ mm
- ✓ RIGIDITA' & SICUREZZA
- ✓ DESIGN COMPATTO E MANEGGEVOLEZZA
- ✓ AUTOCENTRANTI
- ✓ PREDISPOSIZIONE PER ZERO POINT
- ✓ RIALZI COMPATIBILI
- ✓ NO WEAR
- ✓ QUICK CLAMPING
- ✓ MODULARITY & VERSATILITY
- ✓ HIGHEST ACCURACIES $\pm 0,02$ mm
- ✓ RIGIDITY & SAFETY
-
- ✓ SELF-CENTERING
- ✓ ZERO POINT READY
- ✓ COMPATIBLE RISERS

Art. 650

CompactGrip

Le più compatte
The most compact



Art. 950

Con ganasce lavorabili
With soft machineable jaws

Art. 651H

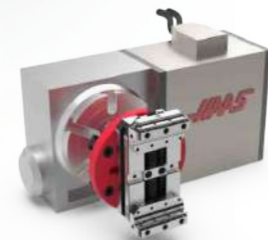
Rialzo Semplice
Simple Riser

Piastra a cambio rapido

Quick change plate

La nuova Piastra a Cambio Rapido meccanico Art.660 (disponibile anche tonda Art.661) permette la rapida sostituzione di morse o attrezzature su tutte le più diffuse tavole girevoli, la versione lavorabile può essere personalizzata direttamente dal cliente in base alla sua tavola macchina.

The new mechanical Quick Change Plate Art.660 (available also as round Art.661) allows the quick of vises or fixtures replacing on the most famous rotary table. The machineable version can be tailor made by the customer himself according to his machine table.



Art. 651H

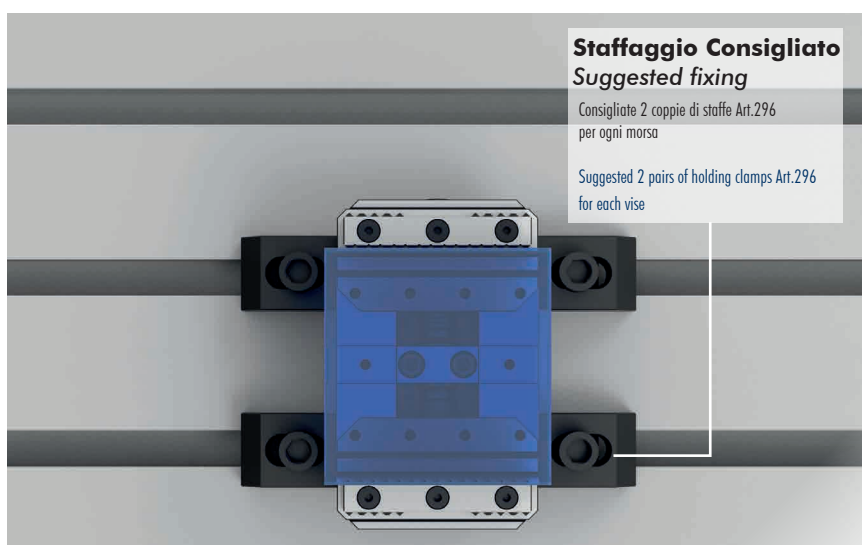
Piastra a cambio rapido
Quick Change plate

Staffe di ancoraggio / Vise holding clamps

NEW
2024

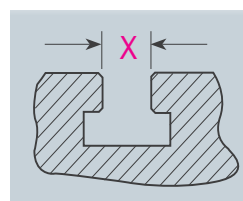
CompactGrip

Coppia staffe di fissaggio Art.296, complete di vite e dado a "T"
Pair of vise holding clamps Art.296 complete of screw and "T" nut

Esempio d'ordine per morsa tipo 3 su macchina con cave a T da 18mm: Art.296 T.3 X=18mm
Oppure con codice: 2.29.6100 X=18mm
Order example for Type 3 vise on machine with 18mm T-slots: Art.296 T.3 X=18mm
Also with code: 2.29.6100 X=18mm

Staffaggio Consigliato
Suggested fixing

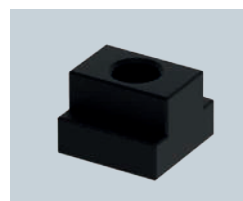
Consigliate 2 coppie di staffe Art.296 per ogni morsa

Suggested 2 pairs of holding clamps Art.296 for each vise


Cava a T
T Slot

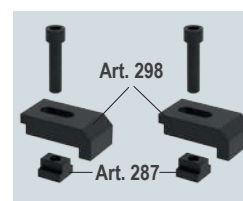
Specificare sempre la cava della vostra macchina

Always specify the machine T-slot dimension


Art.287 (Pag.4.34)
Dadi a T - T Nuts

Per fissaggio morse alle cave a T della macchina

For vise clamping on the machine T-slots


Art.296

(Art.298 + Art.287)

Consigliate 2 coppie di staffe Art.296 per ogni morsa

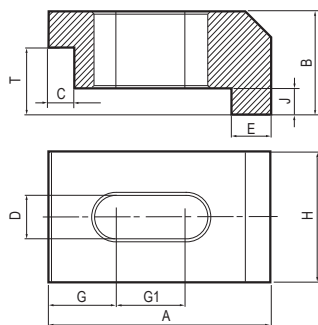
Suggested 2 pairs of holding clamps Art.296 for each vise

Art.298/CGR

 Per lo staffaggio della morsa in spazi ristretti possibilità di usare staffe Art. 298 / CGR vedi pag. 7.29)
 For clamping vise in narrow space it's possible to use the holding clamps Art 298 / CGR see pages 7.29

7

Tipo (grandezza) morsa Vise type (size)		1 - 2 - 3								
Art. 296	Cava a T- slot X	12*	14	16	16	18	20	18*	20	22
	T-nuts Ref. N°	12	13	14	20	21	22	32	33	34
Coppia di staffe Holding clamps pair	Filetto vite Screw thread	M10			M12 *			M16		
	A	50			50			50		
	B	24			24			24		
	C	6			6			6		
	Ø D	11			13			17		
	E	10			10			10		
	G	16			17,5			19		
	G1	15			13			9		
	H	34			34			34		
	J	4			4			4		
T ± 0,1	15			15			15			
Cod.	2.29.61000 / M10			2.29.61000 / M12			2.29.61000 / M16			
€	45			45			45			



* Scelta consigliata - Suggested choice

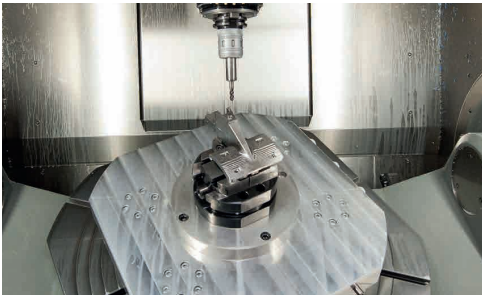
* Scelta NON consigliata - NO Suggested choice

Soluzioni personalizzate / Customized solutions

4th & 5th Axis

Soluzioni personalizzate a tutti i vostri problemi di serraggio

Customized solutions for all your clamping problems

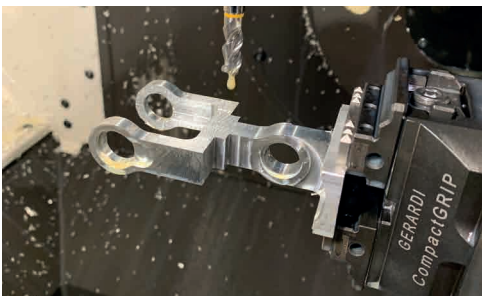


Morsa Multitasking su centro a 5 assi

Multitasking vise on 5th axis machining center

Applicazione aeronautica, morsa Art.640 tipo 2 montata su macchina a 5 assi

Typical Multitasking vise Art.640 type 2 application on a 5 axis machine for aerospace workpiece

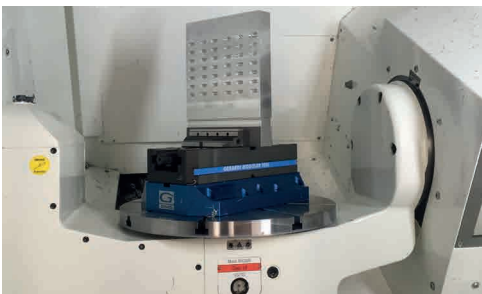


Morsa CompactGrip su centro a 5 assi

CompactGrip vise on 5th axis machining center

Lavorazioni di fresatura effettuate su di un centro di lavoro a cinque assi con morsa CompactGrip Art.650

Milling machining operations on a five axis machining center with CompactGrip vises Art650



Morsa CompactGrip su rialzo semplice

Compact Grip vise on simple riser

Morsa CompactGrip montata su Kitamura Mytrunnion 4G per la lavorazione di uno stampo nel settore plastica.

Compact Grip vise on Kitamura Mytrunnion-4G for machining a die mould used in the plastic industry



Morse CompactGrip su piastra Zero Point

CompactGrip vises on Zero Point plate

Piastra base con 6 Zero Point singoli per morsa CompactGrip Art.650 T2 per lavorazioni di piccoli particolari

Zero Point plate with 6 single Zero Point units for CompactGrip vises Art.650 T2 for small workpieces machining.



Un sistema completamente automatico

Fully automatic system

Morsa automatica GripMatic Art.670PN montata tramite robot su tavola Zero Point.

GripMatic automatic vises Art.670PN mounted by robot on Zero Point Plate

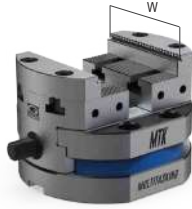
Tipo (grandezza) morsa / Vise type (size)
Art. 640

 Tipo / Type **1 e 2**

 Morsa autocentrante o eccentrica.
 Azionamento manuale. Serraggio meccanico.
 Self-centering or eccentric vise.
 Manual operation. Mechanical clamping.

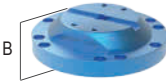
Art. 640T

 Tipo / Type **1 e 2**

 Morsa autocentrante o eccentrica
 con ganasce grip Art. 645T.
 Azionamento manuale. Serraggio meccanico.
 Self-centering or eccentric vise
 with grip jaws Art. 645T.
 Manual operation. Mechanical clamping.


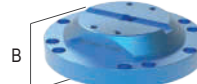
kN	1 16 kN	2 20 kN
A	65	95
A1	20	40
W	74	99
B	15	20
C	50	70
D	Ø120	Ø160
E	35	35
F	92	120
G	20	25
H	156	208
L	M12	M16
M	9	11
kg	4,9	11
Cod.	6.64.01000	6.64.02000
€	1.858	2.285

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !
Art. 641H

 Tipo / Type **1**

 Rialzo Semplice
 Simple Riser

B	50	75	100
Cod.	7.64.1H100AL /50	7.64.1H100AL /75	7.64.1H100AL /100
€	588	620	640

 Kit di fissaggio e allineamento morsa **incluso** - Vise fixing and alignment kit **included**
Art. 641H

 Tipo / Type **2**

 Rialzo Semplice
 Simple Riser

B	50	75	100
Cod.	7.64.1H200AL /50	7.64.1H200AL /75	7.64.1H200AL /100
€	588	620	753

 Kit di fissaggio e allineamento morsa **incluso** - Vise fixing and alignment kit **included**
Art. 645B

 Ganasca dolce
 Soft jaw


Cod.	6.64.5B100	6.64.5B200
€	102	122

Art. 645C

 Ganasca liscia
 Smooth jaw

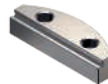
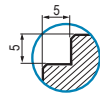

Cod.	6.64.5C100	6.64.5C200
€	102	122

Art. 645D

 Ganasca zigrinata
 Serrated jaw


Cod.	6.64.5D100	6.64.5D200
€	102	122

Art. 645E

 Ganasca a gradino
 Step jaw


Cod.	6.64.5E100	6.64.5E200
€	115	134

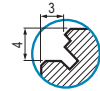
In Dotazione - Standard Equipment

Art. 645F

 Ganasca prismatica
 Prismatic jaw


Cod.	6.64.5F100	6.64.5F200
€	129	146

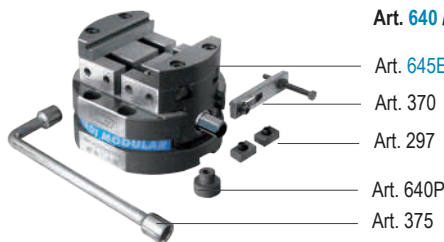
Art. 645T

 Ganasca **GRIP**
GRIP jaw


Cod.	6.64.5T100	6.64.5T200
€	129	146

Dotazione standard:

- 1 chiave a pipa Art. 375 ■ 1 arresto laterale Art. 370
- 1 coppia di tasselli di posizionamento Art. 297 cava a T 16 mm
- 1 perno calibrato per centraggio Art. 640P Ø50



- Art. 640 / Art. 640T
- Art. 645E / Art. 645T
- Art. 370
- Art. 297
- Art. 640P
- Art. 375

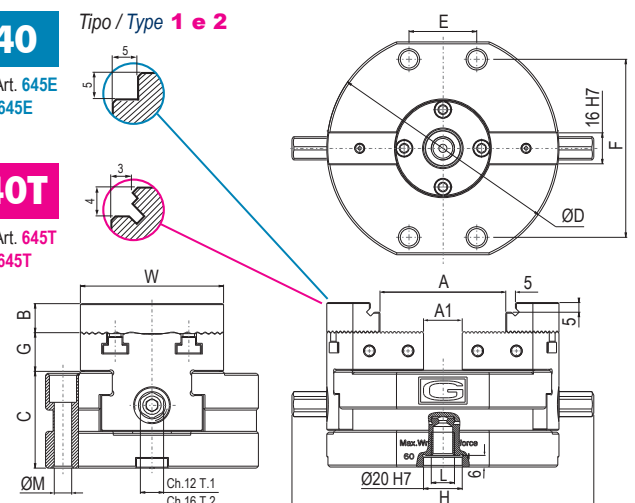
Standard equipment:

- 1 box wrench Art. 375 ■ 1 workshop Art. 370
- 1 pair of positioning key-nuts Art. 297 T slot 16 mm
- 1 calibrated centering pin Art. 640P Ø50

Art. 640

 Con ganasce grip Art. 645E
 With grip jaws Art. 645E

Art. 640T

 Con ganasce grip Art. 645T
 With grip jaws Art. 645T


Tipo (grandezza) morsa Vise type (size)	kN	3 30 kN
Art. 640 Tipo / Type 3 x 166	A	108
	A1	20
	W	138 132
	B	30 50
	C	58
	D	166
	E	-
	kg	13
	Cod.	7.64.03166 7.64.0T3166
	€	2.658

Tipo (grandezza) morsa Vise type (size)	kN	3 30 kN
Art. 640 Tipo / Type 3 x 266	A	208
	A1	60
	W	138 132
	B	30 50
	C	58
	D	266
	E	200
	kg	20
	Cod.	7.64.03266 7.64.0T3266
	€	2.785

Tipo (grandezza) morsa Vise type (size)	kN	3 30 kN
Art. 640T Tipo / Type 3 x 166	A	108
	A1	20
	W	138 132
	B	30 50
	C	58
	D	166
	E	-
	kg	13
	Cod.	7.64.03166 7.64.0T3166
	€	2.658

Tipo (grandezza) morsa Vise type (size)	kN	3 30 kN
Art. 640T Tipo / Type 3 x 266	A	208
	A1	60
	W	138 132
	B	30 50
	C	58
	D	266
	E	200
	kg	20
	Cod.	7.64.03266 7.64.0T3266
	€	2.785


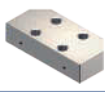


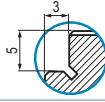


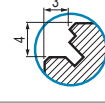
UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art. 641H	B	50	75	100
Tipo / Type 3 x 166				
	Cod.	7.64.1H3166AL /50	7.64.1H3166AL /75	7.64.1H3166AL /100
Rialzo Semplice Simple Riser	€	680	726	769

Art. 641H	B	50	75	100
Tipo / Type 3 x 266				
	Cod.	7.64.1H3266AL /50	7.64.1H3266AL /75	7.64.1H3266AL /100
Rialzo Semplice Simple Riser	€	1.047	1.106	1.167

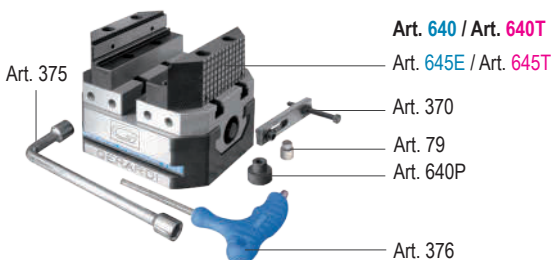
 Kit di fissaggio e allineamento morsa **incluso** - Vise fixing and alignment kit **included**

 Kit di fissaggio e allineamento morsa **incluso** - Vise fixing and alignment kit **included**

Art. 645B Ganascia dolce Soft jaw		Cod.	7.64.5B300	€	159
Art. 645C Ganascia liscia Smooth jaw		Cod.	7.64.5C300	€	159
Art. 645D Ganascia zigrinata Serrated jaw		Cod.	7.64.5D300	€	159
Art. 645E Ganascia a gradino Step jaw	 	Cod.	7.64.5E300	€	171
Art. 645F Ganascia prismatica Prismatic jaw		Cod.	7.64.5F300	€	185
Art. 645T Ganascia GRIP GRIP jaw	 	Cod.	7.64.5T300	€	185

Dotazione standard:

- 1 chiave a pipa Art. 375 ■ 1 chiave a "T" Art. 376 ■ 1 arresto laterale Art. 370
- 1 perno calibrato per centraggio e orientamento Art. 79 cava a T 16 mm
- 1 perno calibrato per centraggio Art. 640P Ø50



Standard equipment:

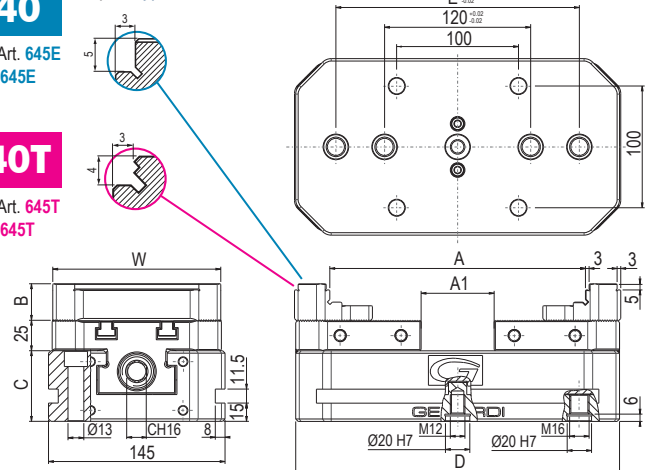
- 1 box wrench Art. 375 ■ 1 "T" wrench Art. 376 ■ 1 workstop Art. 370
- 1 calibrated centering and orientation pin Art. 79 T slot 16 mm
- 1 calibrated centering pin Art. 640P Ø50

Art. 640

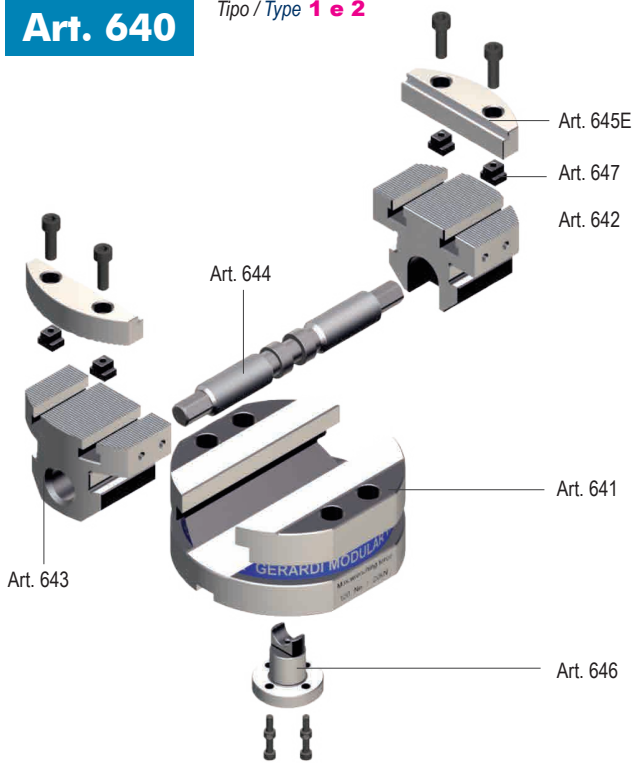
 Con ganasce grip Art. 645E
 With grip jaws Art. 645E

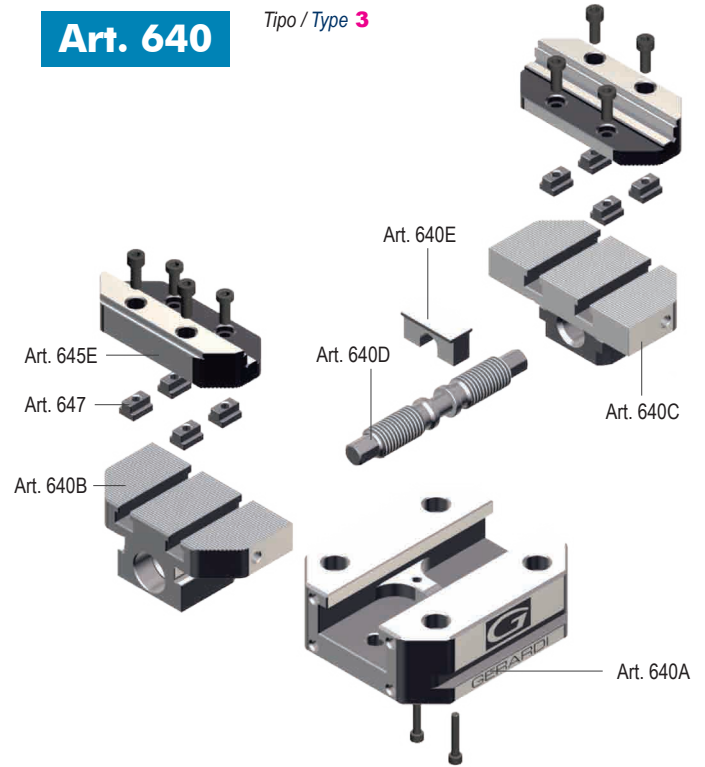
Art. 640T

 Con ganasce grip Art. 645T
 With grip jaws Art. 645T

 Tipo / Type **3**


Art. 640

 Tipo / Type **1 e 2**

Art. 640

 Tipo / Type **3**


Tipo (grandezza) / Type (size)	1	2	Tipo (grandezza) / Type (size)	3x166	3x266
Art. 641 Corpo base Base body	Cod. 6.64.11000 € 564	Cod. 6.64.12000 € 660	Art. 640A Corpo base Base body	Cod. 7.64.0A3166 € 779	Cod. 7.64.0A3266 € 904
Art. 642 Slitta integrale destra Solid slide right hand	Cod. 6.64.21000 € 278	Cod. 6.64.22000 € 379	Art. 640B Slitta integrale sinistra Solid slide left hand	Cod. 7.64.0B3166 € 453	Cod. 7.64.0B3266 € 478
Art. 643 Slitta integrale sinistra Solid slide left hand	Cod. 6.64.31000 € 278	Cod. 6.64.32000 € 379	Art. 640C Slitta integrale destra Solid slide right hand	Cod. 7.64.0C3166 € 453	Cod. 7.64.0C3266 € 478
Art. 644 Vite di bloccaggio Main screw	Cod. 6.64.41000 € 179	Cod. 6.64.42000 € 215	Art. 640D Vite di bloccaggio Main screw	Cod. 7.64.0D3166 € 254	Cod. 7.64.0D3266 € 264
Art. 645E Ganascia a gradino Step jaw	Cod. 6.64.5E100 € 115	Cod. 6.64.5E200 € 134	Art. 640E Forcella Yoke	Cod. 7.64.0E3166 € 278	Cod. 7.64.0E3266 € 278
Art. 646 Forcella Yoke	Cod. 6.64.61000 € 192	Cod. 6.64.62000 € 253	Art. 645E Ganascia a gradino Step jaw	Cod. 7.64.5E300 € 171	
Art. 647 Dado a T (Cad.) T nut (Each)	Cod. 6.64.71000 € 18	Cod. 6.64.72000 € 18	Art. 647 Dado a T (Cad.) T nut (Each)	Cod. 7.64.73000 € 21	

GANASCE PER MORSE MULTITASKING Art.640

JAWS FOR MULTITASKING VISES Art.640

Tipo (grandezza) / Type (size)	1	2	3
	B: 15 Y: 27,5 W: 74	B: 20 Y: 32,5 W: 99	B: 30 Y: 50 W: 138
Art. 645B* Ganascia dolce Soft jaw	K: 20 X: 27,5 Cod.: 6.64.5B100 €: 102	K: 30 X: 42,5 Cod.: 6.64.5B200 €: 122	K: 50 - Cod.: 7.64.5B300 €: 159
Art. 645C* Ganascia liscia Smooth jaw	Cod.: 6.64.5C100 €: 102	Cod.: 6.64.5C200 €: 122	Cod.: 7.64.5C300 €: 159
Art. 645D* Ganascia zigrinata Serrated jaw	Cod.: 6.64.5D100 €: 102	Cod.: 6.64.5D200 €: 122	Cod.: 7.64.5D300 €: 159
Art. 645E* Ganascia a gradino Step jaw In Dotazione Standard Equipment	Cod.: 6.64.5E100 €: 115	Cod.: 6.64.5E200 €: 134	Cod.: 7.64.5E300 €: 171
Art. 645F* Ganascia prismatica Prismatic jaw	ØA: 7 ÷ 15 ØM: 25 ÷ 70 Cod.: 6.64.5F100 €: 129	ØA: 9 ÷ 20 ØM: 35 ÷ 110 Cod.: 6.64.5F200 €: 146	ØA: 12 ÷ 30 ØM: 50 ÷ 160 Cod.: 7.64.5F300 €: 185
Art. 645T* Ganascia GRIP Jaw	Cod.: 6.64.5T100 €: 129	Cod.: 6.64.5T200 €: 146	Cod.: 7.64.5T300 €: 185

* Viti per fissaggio a richiesta €15 Fixing screws on request €15

Tipo (grandezza) / Type (size)	1	2	3
Art. 79 Perno calibrato per centraggio e orientamento Calibrated centering and orientation pin	ØB: - Cod.: - €: -	ØB: - Cod.: - €: -	ØB: 10-12-14-16-18-20 Cod.: 7.79.20M16/ØB €: 19
Art. 297 Coppia di tasselli di posizionamento completi di vite M5 x 10 Pair of positioning key-nuts with M5 x 10 clamping screw	B: 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 28 - 36 Cod.: 2.29.71000/B €: 34	-	-
Art. 640P Perno calibrato per centraggio Calibrated centering pin	ØB: 30 - 38,1 - 50 - 50,8 Cod.: 7.64.0P100 €: 28	Cod.: 7.64.0P200 €: 34	Cod.: 7.64.0P300 €: 40

* Specificare sempre quota B - Specify always B dimension

Tipo (grandezza) morsa / Vise type (size)	1	2
kN	20 kN	26 kN
Ø A	30 ÷ 45	45 ÷ 70
W	74	99
B	60	80
C	50	70
D	Ø120	Ø160
E	35	35
F	92	120
G	30	40
H	156	208
L	M12	M16
M	Ø9	Ø11
kg	5	10
Cod.	7.64.0J100	7.64.0J200
€	1.919	2.347

Art. 640J

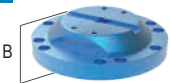
 Tipo / Type **1 e 2**

 Morsa autocentrante o eccentrica.
 Azionamento manuale.
 Serraggio meccanico

 Self-centering or eccentric vise.
 Manual operation
 Mechanical clamping

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

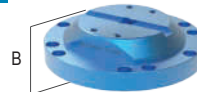
Art. 641H

 Tipo / Type **1**

 Rialzo Semplice
 Simple Riser

B	50	75	100
Cod.	7.64.1H100AL /50	7.64.1H100AL /75	7.64.1H100AL /100
€	588	620	640

 Kit di fissaggio e allineamento morsa **incluso** - Vise fixing and alignment kit **included**

Art. 641H

 Tipo / Type **2**

 Rialzo Semplice
 Simple Riser

B	50	75	100
Cod.	7.64.1H200AL /50	7.64.1H200AL /75	7.64.1H200AL /100
€	588	620	753

 Kit di fissaggio e allineamento morsa **incluso** - Vise fixing and alignment kit **included**

Art. 655B

 Piastra ganascia dolce
 Soft jaw-plate


Cod.	7.65.5B100	7.65.5B200
€	79	90

Art. 655C

 Piastra ganascia liscia
 Smooth jaw-plate


Cod.	7.65.5C100	7.65.5C200
€	90	102

Art. 655D

 Piastra ganascia zigrinata
 Serrated jaw-plate


Cod.	7.65.5D100	7.65.5D200
€	90	102

Art. 655F

 Piastra ganascia prismatica
 Prismatic jaw-plate


Ø	10 ÷ 18	10 ÷ 30
Cod.	7.65.5F118	7.65.5F230
Ø	15 ÷ 23 * 23 ÷ 30	25 ÷ 45
Cod.	7.65.5F123	7.65.5F245
€	102	115

 * Per Ø 23+30 ingombro max. (D1) = 132mm Ø (anziché 120mm)
 For Ø 23+30 max overall dimensin (D1) Ø132mm (instead of 120mm)

Art. 655J

 Coppia di ganasce integrali prismatiche
 Prismatic solid jaws (1 pair)


	30 ÷ 45	45 ÷ 70
Cod.	7.65.5J100	7.65.5J200
€	467	592

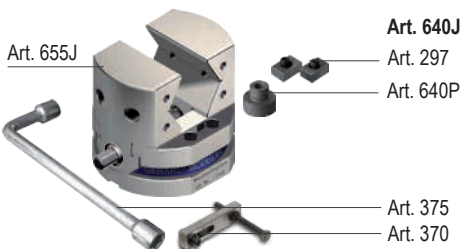
Da usare in coppia / To be used as a pair

In Dotazione - Standard Equipment

Dotazione standard:

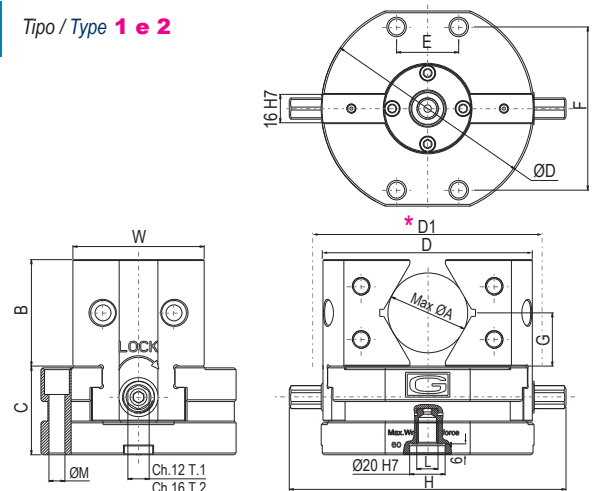
- 1 chiave a pipa Art. 375 ■ 1 arresto laterale Art. 370
- 1 coppia di tasselli di posizionamento Art. 297 cava a T 16 mm
- 1 perno calibrato per centraggio Art. 640P Ø50

Art. 640J

 Tipo / Type **1 e 2**


Standard equipment:


- 1 box wrench Art. 375 ■ 1 workstop Art. 370
- 1 pair of positioning key-nuts Art. 297 T slot 16 mm
- 1 calibrated centering pin Art. 640P Ø50



Tipo (grandezza) morsa
Vise type (size)

Art. 640J *Tipo / Type 3 x 166*

Morsa autocentrante o eccentrica.
Azionamento manuale.
Serraggio meccanico



Self-centering or eccentric vise.
Manual operation
Mechanical clamping

	3
Ø A	44 ÷ 68
A1	-
W	78
B	75
C	58
D	166
E	-
G	45
kg	15
Cod.	7.64.0J310
€	2.909

Tipo (grandezza) morsa
Vise type (size)

Art. 640J *Tipo / Type 3 x 266*

Morsa autocentrante o eccentrica.
Azionamento manuale.
Serraggio meccanico



Self-centering or eccentric vise.
Manual operation
Mechanical clamping

	3
Ø A	48 ÷ 102
A1	66
W	78
B	95
C	58
D	266
E	200
G	55
kg	22
Cod.	7.64.0J320
€	3.035

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art. 641H

Tipo / Type 3 x 166

Rialzo Semplice
Simple Riser



B	50	75	100
Cod.	7.64.1H3166AL /50	7.64.1H3166AL /75	7.64.1H3166AL /100
€	680	726	769

Kit di fissaggio e allineamento morsa **incluso** - Vise fixing and alignment kit **included**

Art. 641H

Tipo / Type 3 x 266

Rialzo Semplice
Simple Riser




B	50	75	100
Cod.	7.64.1H3266AL /50	7.64.1H3266AL /75	7.64.1H3266AL /100
€	1.047	1.106	1.167

Kit di fissaggio e allineamento morsa **incluso** - Vise fixing and alignment kit **included**

Art. 655B

Piastra ganascia dolce
Soft jaw-plate




Cod. 7.65.5B316

€ **102**

Art. 655C

Piastra ganascia liscia
Smooth jaw-plate




Cod. 7.65.5C316

€ **115**

Art. 655D

Piastra ganascia zigrinata
Serrated jaw-plate




Cod. 7.65.5D316

€ **115**

Art. 655F


Piastra ganascia prismatica
Prismatic jaw-plate



<i>Tipo / Type 3 x 166</i> Ø Min / Ø Max	12 ÷ 32	14 ÷ 34	16 ÷ 36	18 ÷ 45
<i>Tipo / Type 3 x 266</i> Ø Min / Ø Max	12 ÷ 38	14 ÷ 48	16 ÷ 58	24 ÷ 65
Cod.	7.65.5F330	7.65.5F335	7.65.5F345	7.65.5F350
€	129			

Art. 655J

Coppia di ganasce integrali prismatiche
Prismatic solid jaws (1 pair)

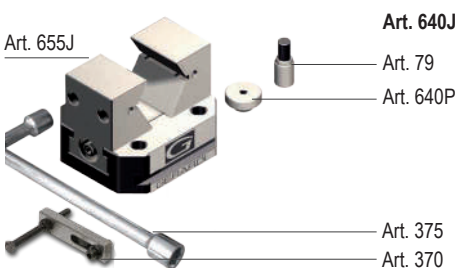


Ø	44 ÷ 68	48 ÷ 102
Cod.	7.65.5J316	7.65.5J326
€	716	742

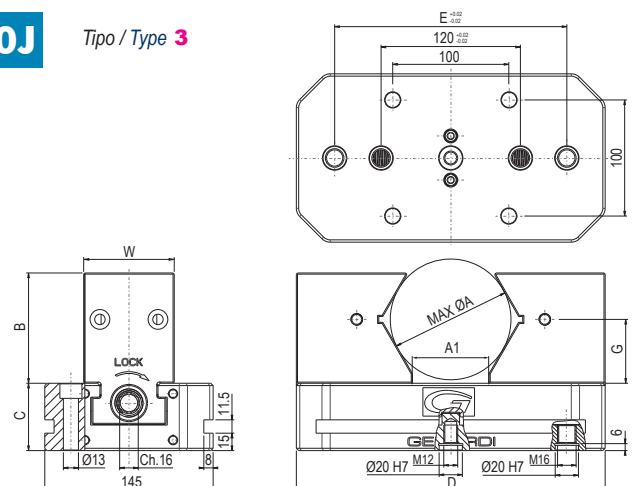
In Dotazione - Standard Equipment

- Dotazione standard:
- 1 chiave a pipa Art. 375 ■ 1 arresto laterale Art. 370
 - 1 perno calibrato per centraggio e orientamento Art. 79 cava a T 16 mm
 - 1 perno calibrato per centraggio Art. 640P Ø50

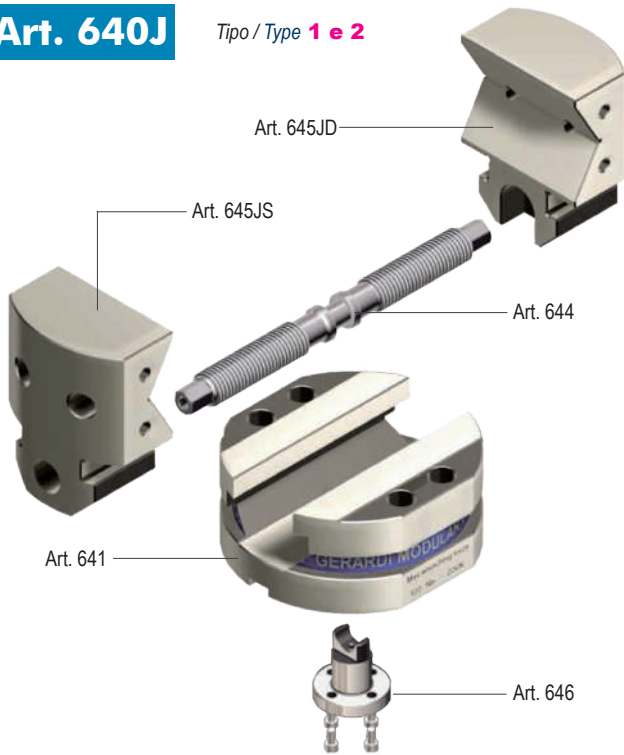
Art. 640J *Tipo / Type 3*

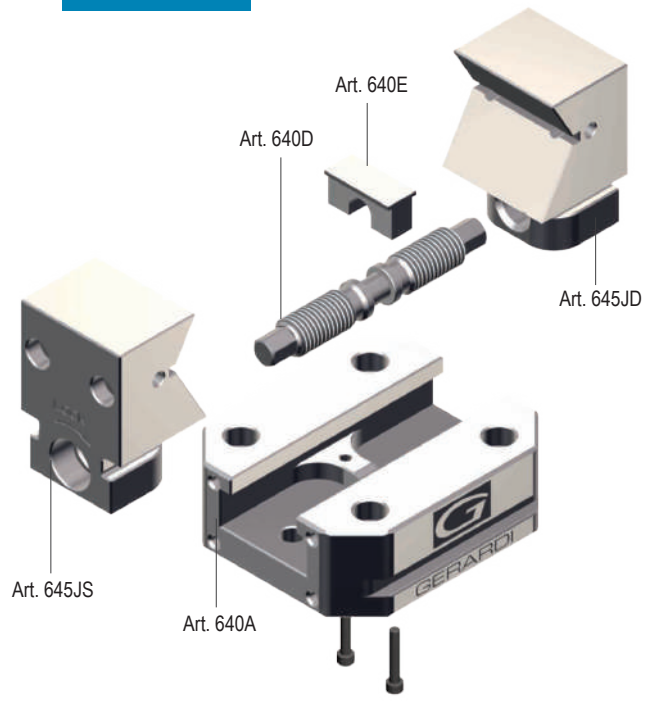


- Standard equipment:
- 1 box wrench Art. 375 ■ 1 workstop Art. 370
 - 1 calibrated centering and orientation pin Art. 79 T slot 16 mm
 - 1 calibrated centering pin Art. 640P Ø50



Art. 640J

 Tipo / Type **1 e 2**

Art. 640J

 Tipo / Type **3**


Tipo (grandezza) / Type (size)	1	2
Art. 641	Cod. 6.64.11000	6.64.12000
Corpo base Base body	€ 564	660

Tipo (grandezza) / Type (size)	3x166	3x266
Art. 640A	Cod. 7.64.0A3166	7.64.0A3266
Corpo base Base body	€ 779	904

Art. 644	Cod. 6.64.41000	6.64.42000
Vite di bloccaggio Main screw	€ 179	215

Art. 640D	Cod. 7.64.0D3166	7.64.0D3266
Vite di bloccaggio Main screw	€ 254	264

Art. 646	Cod. 6.64.61000	6.64.462000
Forcella Yoke	€ 192	253

Art. 640E	Cod. 7.64.0E3166	7.64.0E3266
Forcella Yoke	€ 278	278

Art. 645JS*	Cod. 7.64.5JS10	7.64.5JS20
Ganascia integrale prismatica sx Solid prismatic left jaw	€ 235	296

Art. 645JD*	Cod. 7.64.5JD316	7.64.5JD326
Ganascia integrale prismatica dx Solid prismatic right jaw	€ 357	370

Art. 645JD*	Cod. 7.64.5JD10	7.64.5JD20
Ganascia integrale prismatica dx Solid prismatic right jaw	€ 235	296

Art. 645JS*	Cod. 7.64.5JS316	7.64.5JS326
Ganascia integrale prismatica sx Solid prismatic left jaw	€ 357	370

* **Art. 645JS** + **Art. 645JD** = **Art. 655J**
 Tipo / Type **3**

* **Art. 645JS** + **Art. 645JD** = **Art. 655J**
 Tipo / Type **1-2**

GANASCE & PIASTRE GANASCE PER MORSE MULTITASKING Art.640J

JAWS & JAW PLATES FOR MULTITASKING VISES Art.640J

Tipo (grandezza) / Type (size)	1	2	3		
Art. 655J Tipo / Type 1-2 Coppia di ganasce integrali prismatiche Prismatic solid jaws (1 pair)					
	W	74	99	78	78
	K	60	80	75	95
	X	49	59	59	95
	Ø	30 ÷ 45	45 ÷ 70	44 ÷ 68	48 ÷ 102
	Cod.	7.65.5J100	7.65.5J200	7.65.5J316	7.65.5J326
€	467	592	716	742	

In Dotazione - Standard Equipment

Art. 655J Tipo / Type 3				
	In Dotazione - Standard Equipment			

Art. 655B Piastra ganascia dolce Soft jaw-plate				
	K	55	70	60
	X	38	54	49
	Cod.	7.65.5B100	7.65.5B200	7.65.5B316
€	79	90	102	

Art. 655C Piastra ganascia liscia Smooth jaw-plate				
	K	55	70	60
	X	23	32	24
	Cod.	7.65.5C100	7.65.5C200	7.65.5C316
€	90	102	115	

Art. 655D Piastra ganascia zigrinata Serrated jaw-plate				
	K	55	70	60
	X	23	32	24
	Cod.	7.65.5D100	7.65.5D200	7.65.5D316
€	90	102	115	

Tipo (grandezza) / Type (size)	1	2	3x166	3x266	
Art. 655F Piastra ganascia prismatica Prismatic jaw-plate					
	K	43	54	60	60
	X	17	22	24	24
	Ø	10 ÷ 18	10 ÷ 30	12 ÷ 32	12 ÷ 38
	Cod.	7.65.5F118	7.65.5F230	7.65.5F330	
	Ø	15 ÷ 23-23 ÷ 30*	25 ÷ 45	14 ÷ 34	12 ÷ 38
	Cod.	7.65.5F123	7.65.5F245	7.65.5F335	
	Ø	-	-	16 ÷ 36	16 ÷ 58
	Cod.	-	-	7.65.5F345	
	Ø	-	-	18 ÷ 45	24 ÷ 65
Cod.	-	-	7.65.5F350		
€	102	115	129		

* Per Ø 23=30 ingombro max. (D1) = 132mm Ø (anziché 120mm)
 For Ø 23=30 max overall dimension (D1) Ø132mm (instead of 120mm)

Tipo (grandezza) / Type (size)	1	2	3	
Art. 79 Perno calibrato per centraggio e orientamento Calibrated centering and orientation pin				
	ØB	-	-	10-12-14-16-18-20
	Cod.	-	-	7.79.20M16/ØB
€	-	-	19	

Art. 297 Coppia di tasselli di posizionamento completi di vite M5 x 10 Pair of positioning key-nuts with M5 x 10 clamping screw			
	B	10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 28 - 36	-
	Cod.	2.29.71000/B	
€	34	-	

Art. 640P Perno calibrato per centraggio Calibrated centering pin			
	ØB	30 - 38,1 - 50 - 50,8	
	Cod.	7.64.OP100	7.64.OP200
€	28	34	40


* Specificare sempre quota B - Specify always B dimension

RIALZI IN ALLUMINIO PER MORSE ART.640

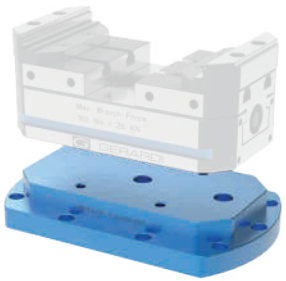
ALUMINUM RISERS FOR VISES ART.640

Tipo (grandezza) rialzo Riser type	1			2			
Art. 641H <i>Tipo / Type 1 e 2</i>	ØA	120			160		
Rialzo semplice, compatibile con il sistema Zero Point 	B	50	75	100	50	75	100
	kg	3	4,5	5,4	3,5	4,9	6,4
	Cod.	7.64.1H100AL/050	7.64.1H100AL/075	7.64.1H100AL/100	7.64.1H200AL/050	7.64.1H200AL/075	7.64.1H200AL/100
Simple riser Zero Point ready	€	588	620	640	588	620	753

 Kit di fissaggio e allineamento rialzo **non incluso** / Riser fixing and alignment kit **not included**

Tipo (grandezza) rialzo / Riser type (size)	3 x 166		
Art. 641H <i>Tipo / Type 3 x 166</i>	A	166	
Rialzo semplice, compatibile con il sistema Zero Point 	B	50	100
	C	230	
	D	190	
	kg	3,8	6,8
	Cod.	7.64.1H3166AL/050	7.64.1H3166AL/100
Simple riser Zero Point ready	€	680	769

 Kit di fissaggio e allineamento rialzo **non incluso** / Riser fixing and alignment kit **not included**

Tipo (grandezza) rialzo / Riser type (size)	3 x 266		
Art. 641H <i>Tipo / Type 3 x 266</i>	A	266	
Rialzo semplice, compatibile con il sistema Zero Point 	B	50	100
	C	310	
	D	286	
	kg	5,8	10,7
	Cod.	7.64.1H3266AL/050	7.64.1H3266AL/100
Simple riser Zero Point ready	€	1.047	1.167

 Kit di fissaggio e allineamento rialzo **non incluso** / Riser fixing and alignment kit **not included**

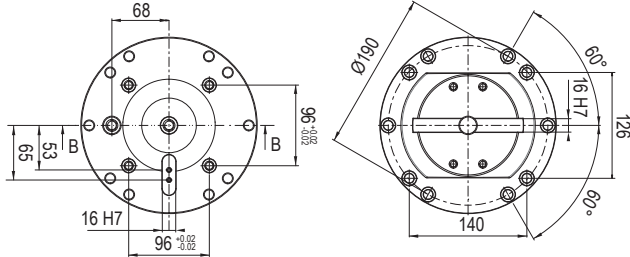
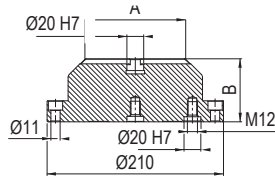
PIASTRE di INTERFACCIA

INTERFACE PLATES

Tipo (grandezza)
Riser (type) size

1 e 2

Art. 641H



Tipo (grandezza)
Riser (type) size

1 e 2

Art. 62M

Multitasking

Piastra di interfaccia lavorabile
Machineable interface plate

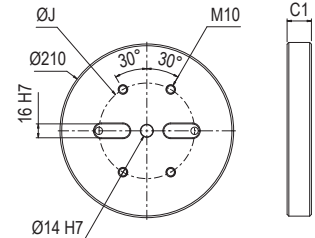
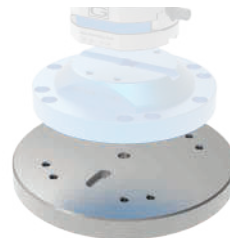
ØJ 190

C1 28

Cod. 62M641H1000S

€ **303**

Personalizzazione non inclusa - Customization not included

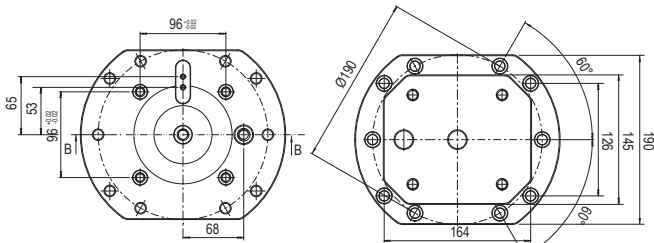
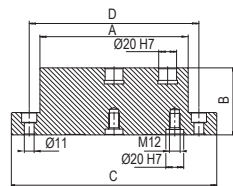


Kit di fissaggio al rialzo **incluso** / Riser fixing and positioning kit **included**

Tipo (grandezza)
Riser (type) size

3 x 166

Art. 641H



Tipo (grandezza)
Riser (type) size

3 x 166

Art. 62M

Multitasking

Piastra di interfaccia lavorabile
Machineable interface plate

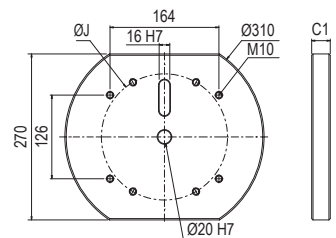
ØJ 190

C1 28

Cod. 62M641H3166S

€ **341**

Personalizzazione non inclusa - Customization not included

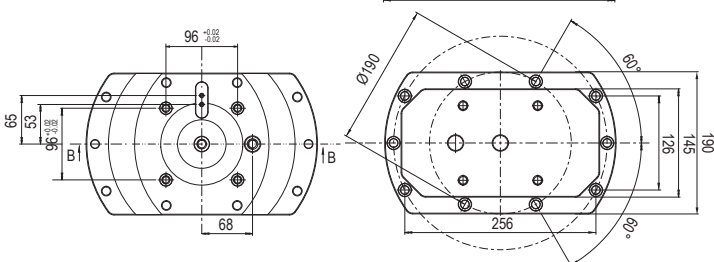
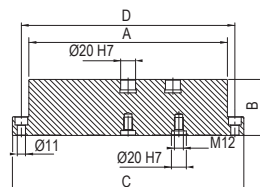


Kit di fissaggio al rialzo **incluso** / Riser fixing and positioning kit **included**

Tipo (grandezza)
Riser (type) size

3 x 266

Art. 641H



Tipo (grandezza)
Riser (type) size

3 x 266

Art. 62M

Multitasking

Piastra di interfaccia lavorabile
Machineable interface plate

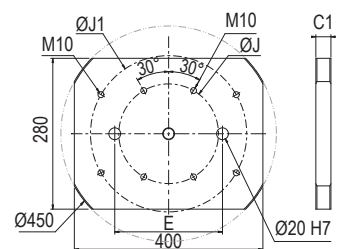
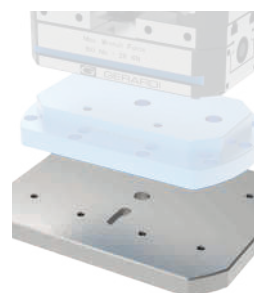
ØJ 260

C1 28

Cod. 62M641H3266S

€ **524**

Personalizzazione non inclusa - Customization not included

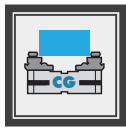


Kit di fissaggio al rialzo **incluso** / Riser fixing and positioning kit **included**

MORSE COMPACT GRIP

COMPACT GRIP VISES

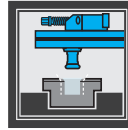
Esempi applicativi su centri a 5 assi - Application example on 5 axis machine



Morse Compact Grip
Compact Grip vises



lavorazioni a 5 assi
5 axis machining



Predisposizione
Zero Point
Zero Point ready



Inseri GRIP
GRIP inserts



Art.650 Compact Grip

La novità assoluta per centri a 5 assi e sistemi multipli sono le morse autocentranti Compact Grip. Il loro nome accosta le principali peculiarità della morsa date dall'estrema compattezza e maneggevolezza al nome del sistema di inserti che adotta, cosiddetto "GRIP". Questo sistema consiste in una gamma di inserti ganascia modulari montati sopra al corpo ganascia principale con la funzione di serrare il particolare da lavorare tramite dei dentini affilati o conformati a seconda del tipo di materiale e di durezza.

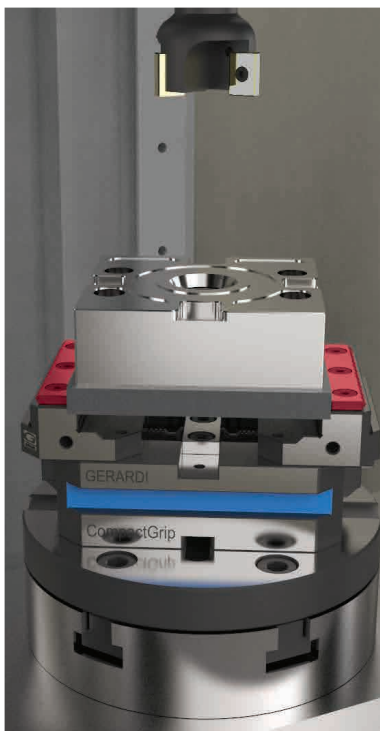
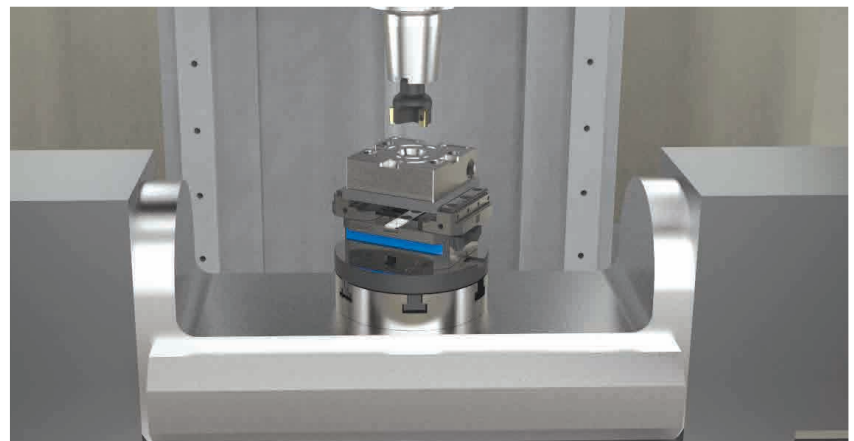
The absolute news for 5 axis machine centres and new multiclamping system are the self-centering Compact Grip vises. Their name identifies the main vise features which are the extreme compactness and easiest handling and the system of inserts which adopts, so called "GRIP". This system includes a range of jaw plates assembled on the top of the main jaw with the function of clamping the workpiece through sharp or duly shaped teeth according to the material type and hardness to clamp.



Aperture Morse / Opening vise range

Scansiona il QR code e scarica la tabella con tutte le aperture delle morse CompactGrip

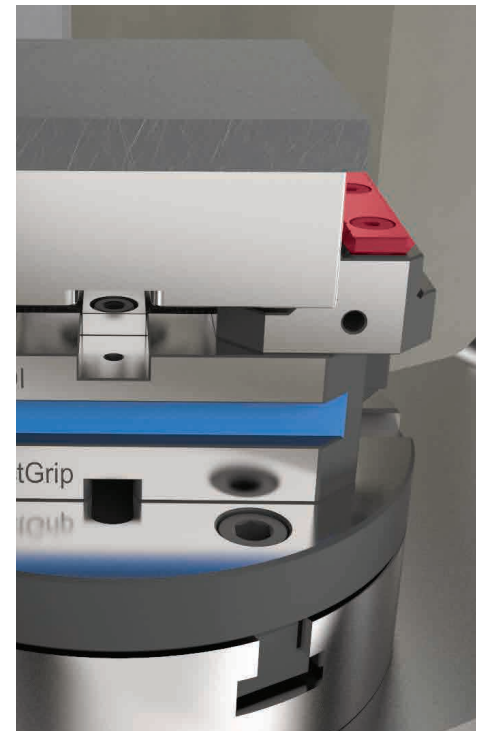
Scan the QR code to download the chart with all vise jaws opening



Tramite l'inserto Grip si esegue la sgrossatura e la finitura del pezzo sui cinque lati.
Through the Grip insert you can rough mill and finish the workpiece on five sides.



Dettaglio Inserto Grip.
Insert Grip detail.



Tramite il gradino liscio della ganascia si rimuove il sovrametallo rimanente e si finisce il particolare.
Then through the smooth jaw step you can remove the remaining stock allowance from the workpiece and finish the workpiece

MORSE FMS

FMS VISES

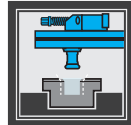
Esempi applicativi su centri a 5 assi - Application example on 5 axis machine



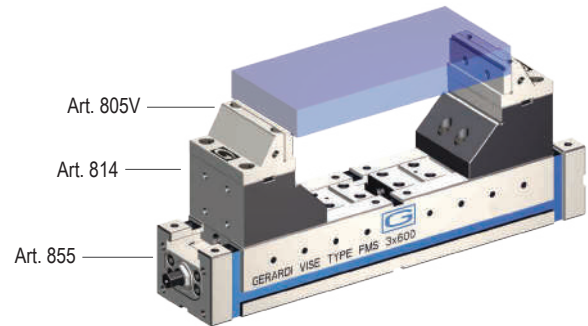
Ganasce alte e rialzate
High and raised jaws



lavorazioni a 5 assi
5 axis machining



Predisposizione
Zero Point
Zero Point ready



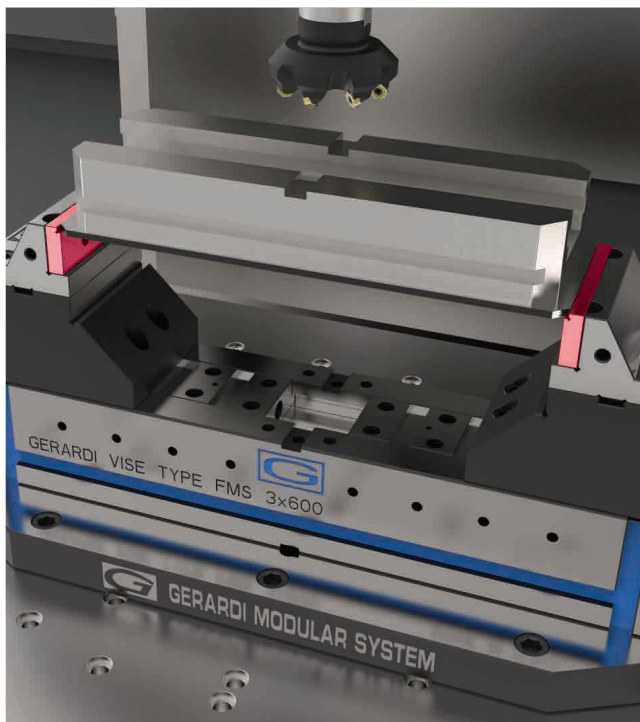
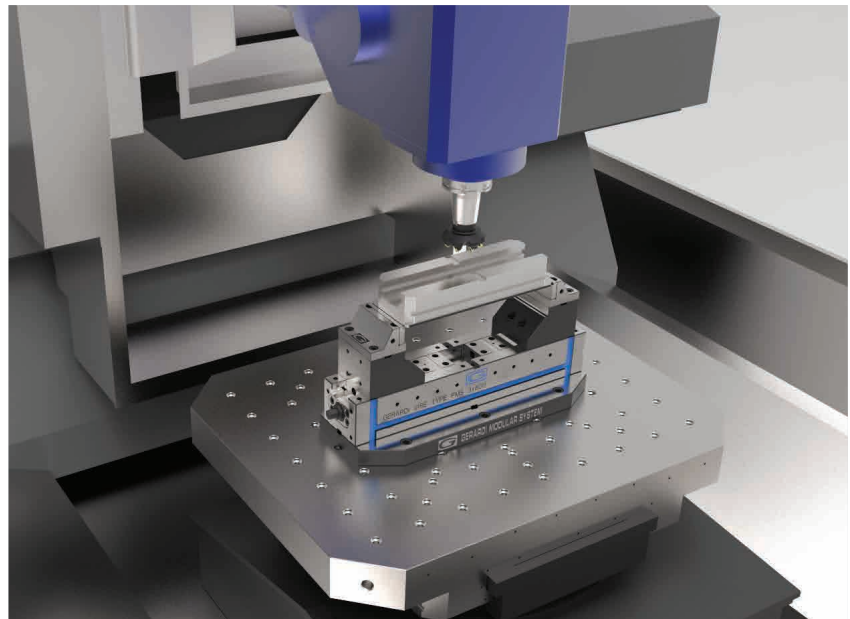
Art.868 FMS series

Grazie all'estrema versatilità del sistema modulare Gerardi anche le morse FMS, adeguatamente riconfigurate, possono rientrare nella cosiddetta categoria di morse Multitasking per centri di lavoro a 5 assi.

Basterà quindi montare la base mobile Art.814 con le relative ganasce Art.805V sul modulo base universale Art.855.

Thanks to the extreme versatility of the Gerardi Modular System even the FMS vises, properly reconfigured, can be used as Multitasking vises for 5 axis machine centres.

It will be enough to assemble the movable base Art.814 with the Art.805V jaws on the universal vise base module Art.855



Particolare sollevato tramite base mobile Art.814
Workpiece raised by movable base Art.814



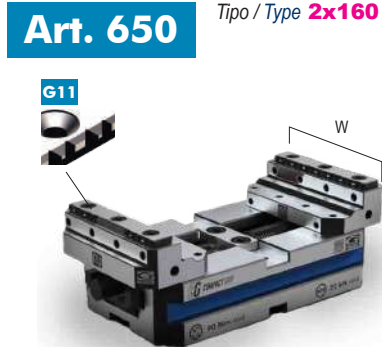
Dettaglio serraggio tramite piastrina GRIP Art.247T
Detail of clamping by GRIP jaw plate Art.247T

Tipo (grandezza) morsa / Vise type (size)	1			2		
	kN	12 kN		22 kN		
Art. 650 Tipo / Type 1x120	A	54	94	134		
	W	50	50	50		
	E	80	120	160		
	kg	1,9	2,7	3,4		
	Cod.	7.65.01080	7.65.01120	7.65.01160		
	€	777	897	1.015		

Morsa Autocentrante CompactGrip con ganasce reversibili, ideale per centri a 5 assi.



Self-centering CompactGrip vise with reversible jaws, Ideal for five axis centres.



AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

Art. 651H
 Tipo / Type **1**
 Rialzo Semplice
 Simple Riser

B	100		
Cod.	7.65.1H1080 / 100	7.65.1H1120 / 100	7.65.1H1160 / 100
€	437	539	654

Art. 651H
 Tipo / Type **2**
 Rialzo Semplice
 Simple Riser

Kit di fissaggio e allineamento morsa **incluso** - Vise fixing and alignment kit **included**

Kit di fissaggio e allineamento morsa **incluso**

Art. 660
 Interasse / Type **52 mm**
 Piastra cambio rapido
 Quick change plate

Cod.	9.66.05200
€	787

Art. 660
 Interasse / Type **52 mm**
 Piastra cambio rapido
 Quick change table

Vedi gamma completa - See the complete range Page 7.34 / 7.35

Vedi gamma completa Pag. 7.34 / 7.35

Art. 650X
 Ganasca fissa intermedia
 Intermedie fixie jaw

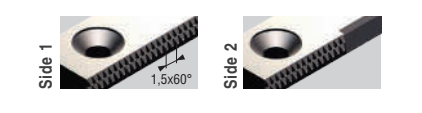
Cod.	7.65.0X1000
€	171

Art. 650X
 Ganasca fissa intermedia
 Intermedie fixie jaw

In fase d'ordine specificare il tipo di inserto, vedi pag. 7.27 / In case of order always specify the type of insert, see page 7.27

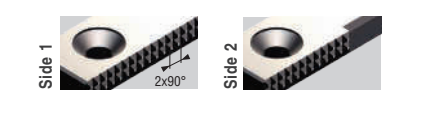
Art. 650T G01
 Inserto ganasca
 Top jaw insert
GRIP (Passo - Pitch 1,5mm)

Cod.	7.65.0T1000/G01
€	41



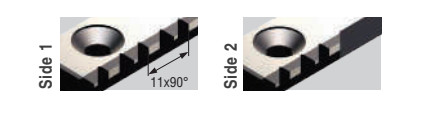
Art. 650T G02
 Inserto ganasca
 Top jaw insert
GRIP (Passo - Pitch 2mm)

Cod.	7.65.0T1000/G02
€	41



Art. 650T G11
 Inserto ganasca
 Top jaw insert
GRIP (Passo - Pitch 11mm)

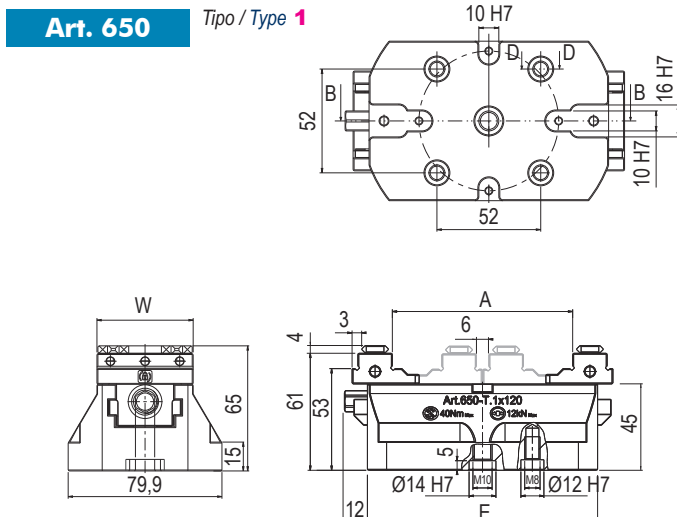
Cod.	7.65.0T1000/G11
€	41



Dotazione standard:
 ■ 1 chiave a pipa Art.375 ■ 1 arresto laterale Art.370EM ■ 1 coppia di tasselli per regolazione autocentrante Art. 297 ■ 2 tasselli di posizionamento Art.650G cava a T 16 mm
 ■ 1 perno calibrato per centraggio e orientamento Art.79 Ø16 ■ 1 Art. 650F piastra di bloccaggio slitta



Standard equipment:
 ■ 1 box wrench Art.375 ■ 1 workshop Art.370EM ■ 1 pair of self-centering key-nuts Art. 297
 ■ 2 positioning key-nuts Art.650G T slot 16 mm ■ 1 calibrated centering and orientation pin Art.79 Ø16
 ■ 1 Art. 650F slide locking plate



kN	2 22 kN				Art. 650	Tipo / Type 3x310	3 32 kN				
	A	B	C	D			133	183	233	283	333
A	96	136	176	216		133	183	233	283	333	
W	88	88	88	88		123	123	123	123	123	
E	120	160	200	240		160	210	260	310	360	
kg	3,6	4,4	5,2	5,8		9,1	10,9	12,8	14,8	17	
Cod.	7.65.02120	7.65.02160	7.65.02200	7.65.02240		7.65.03160	7.65.03210	7.65.03260	7.65.03310	7.65.03360	
€	955	1.075	1.194	1.314	1.552	1.790	2.029	2.387	2.625		

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

B	100				Art. 651H	Tipo / Type 3	100				
	Cod.	7.65.1H2120 / 100	7.65.1H2160 / 100	7.65.1H2200 / 100			7.65.1H2240 / 100	7.65.1H3160 / 100	7.65.1H3210 / 100	7.65.1H3260 / 100	7.65.1H3310 / 100
€	654	654	654	820		769	769	1.167	1.207	1.398	
Vise fixing and allignement kit included						Kit di fissaggio e allignement morsa incluso - Vise fixing and allignement kit included					

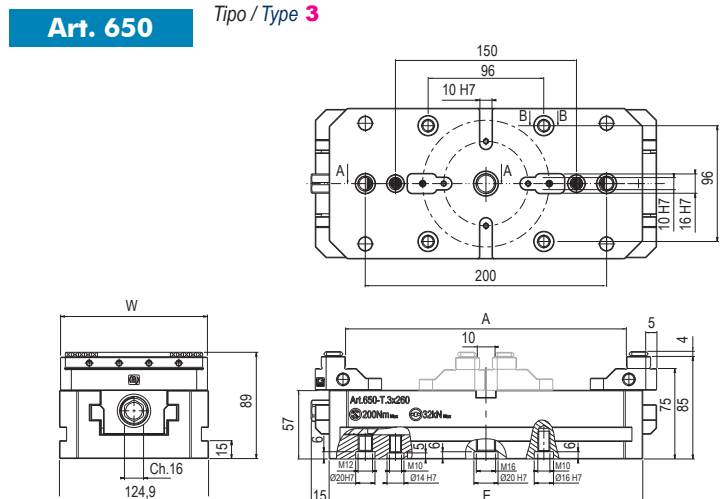
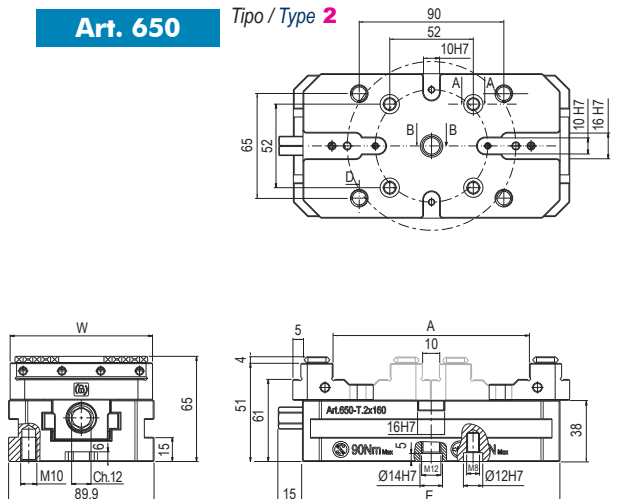
Art. 660		Art. 660	
Cod.	9.66.05200	Interasse / Type	96 mm
€	787	Piastra cambio rapido	Quick change table
See the complete range Page 7.34 / 7.35		Vedi gamma completa - See the complete range Page 7.34 / 7.35	
Cod.	9.66.09600	€	1.133

Art. 650X		Art. 650X	
Cod.	7.65.0X2000	Ganascia fissa intermedia	Intermedie fixie jaw
€	199	7.65.0X3000	221
In fase d'ordine specificare il tipo di inserto, vedi pag. 7.27 / In case of order always specify the type of insert, see page 7.27			

Art. 650T G01		Art. 650T G01	
Cod.	7.65.0T2000/G01	Per materiali di durezza normale	For standard workpieces hardness clamping
€	52	7.65.0T3000/G01	81

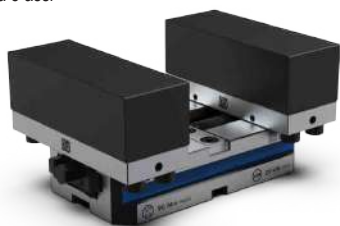
Art. 650T G02		Art. 650T G02	
Cod.	7.65.0T2000/G02	Per materiali di notevole durezza	For hardened workpieces clamping
€	52	7.65.0T3000/G02	81

Art. 650T G11		Art. 650T G11	
Cod.	7.65.0T2000/G11	Per materiali teneri	For soft material clamping
€	52	7.65.0T3000/G11	81



Tipo (grandezza) morsa / Vise (type) size
kN
2
22 kN
Art. 950
Tipo / Type 2x160

Morsa Autocentrante Compact Grip con ganasce lavorabili in acciaio, ideale per centri a 5 assi

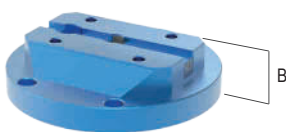


Self-centering Compact Grip vise with machineable steel jaws, Ideal for five axis centres.

A	45	85	125	165
W	128			
B	93			
C	38			
C1	53			
D	89,9			
E	120	160	200	240
F	52			
G	49			
L	Ø12			
L1	M8			
kg	7,9	8,6	9,4	10,1
Cod.	7.95.02120	7.95.02160	7.95.02200	7.95.02240
€	1.236	1.326	1.422	1.535

Per morsa T.1 utilizzare ganasce Art.650BM / CM (pag.7.30) / For vise T.1 use jaw Art.650BM / CM (see pag. 7.30)

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !
Art. 651H
Tipo / Type 2

 Rialzo Semplice
 Simple Riser


B	100			
Cod.	7.65.1H2120 / 100	7.65.1H2160 / 100	7.65.1H2200 / 100	7.65.1H2240 / 100
€	654	654	654	820

Kit di fissaggio e allineamento morsa incluso - Vise fixing and alignment kit included

Art. 660
Interasse / Type 52 mm

 Piastra cambio rapido
 Quick change plate

Vedi gamma completa - See the complete range Page 7.34 / 7.35



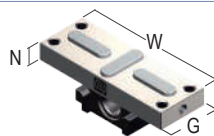
Cod.	9.66.05200			
€	787			

Art. 950B

 Slitta DESTRA con chiavette
 Solid hardened slide RIGHT HAND
 with positioning key nuts

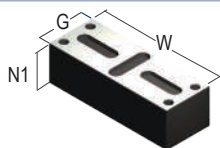

Cod.	7.95.0B2000			
€	205			

Art. 950C

 Slitta SINISTRA con chiavette
 Solid hardened slide LEFT HAND
 with positioning key nuts


Cod.	7.95.0C2000			
€	205			

Art. 950D

 Ganasce lavorabile in acciaio
 Machineable steel jaw


Cod.	7.95.0D2000			
€	75			

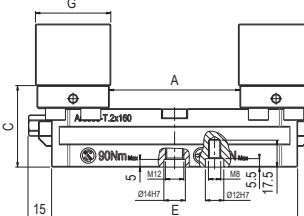
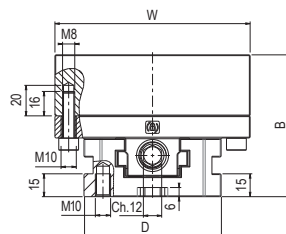
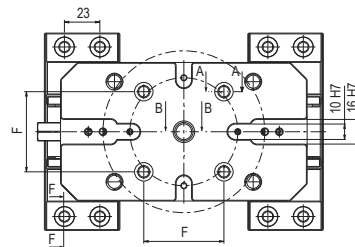
Dotazione standard:

- 1 chiave a pipa Art.375 ■ 1 arresto laterale Art.370EM ■ 1 coppia di tasselli per regolazione autocentrante Art. 297 ■ 2 tasselli di posizionamento Art.650G cava a T 16 mm
- 1 perno calibrato per centraggio e orientamento Art.79 Ø16 ■ 1 Art. 650F piastra di bloccaggio slitta

Art. 950


Standard equipment:

- 1 box wrench Art.375 ■ 1 workshop Art.370EM ■ 1 pair of self-centering key-nuts Art. 297
- 2 positioning key-nuts Art.650G T slot 16 mm ■ 1 calibrated centering and orientation pin Art.79 Ø16
- 1 Art. 650F slide locking plate

Art. 950
Tipo / Type 2


Tipo (grandezza) morsa / Vise (type) size
Art. 950

 Tipo / Type **3x360**

 Morsa Autocentrante Compact Grip
 con ganasce lavorabili in acciaio,
 ideale per centri a 5 assi

 Self-centering Compact Grip
 vise with machineable steel jaws,
 Ideal for five axis centres.

	3				
kN	32 kN				
A	71	121	171	221	271
W	160				
B	124				
C	57				
C1	77				
D	124,9				
E	160	210	260	310	360
F	96				
G	59				
L	Ø16				
L1	M10				
kg	16.8	18.6	20.5	22.5	24.4
Cod.	7.95.03160	7.95.03210	7.95.03260	7.95.03310	7.95.03360
€	2.053	2.203	2.435	2.708	2.982

Per morsa T.1 utilizzare ganasacia Art.650BM / CM (pag.7.30) / For vise T.1 use jaw Art.650BM / CM (see pag. 7.30)

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !
Art. 651H

 Tipo / Type **3**

 Rialzo Semplice
 Simple Riser

 Kit di fissaggio e allineamento morsa **incluso** - Vise fixing and alignment kit **included**

B	100				
Cod.	7.65.1H3160 / 100	7.65.1H3210 / 100	7.65.1H3260 / 100	7.65.1H3310 / 100	7.65.1H3360 / 100
€	769	769	1.167	1.207	1.398

Art. 660

 Interasse / Type **96 mm**

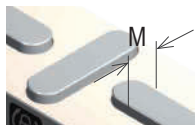
 Piastra cambio rapido
 Quick change plate

Vedi gamma completa - See the complete range Page 7.34 / 7.35



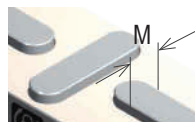
Cod.	9.66.09600				
€	1.133				

Art. 950B

 Slitta **DESTRA** con chiavette
 Solid hardened slide **RIGHT**
HAND with positioning key nuts


Cod.	7.95.0B3000				
€	372				

Art. 950C

 Slitta **SINISTRA** con chiavette
 Solid hardened slide **LEFT**
HAND with positioning key nuts


Cod.	7.95.0C3000				
€	372				

Art. 950D

 Ganaschia lavorabile in acciaio
 Machineable steel jaw


Cod.	7.95.0D3000				
€	97				

Dotazione standard:

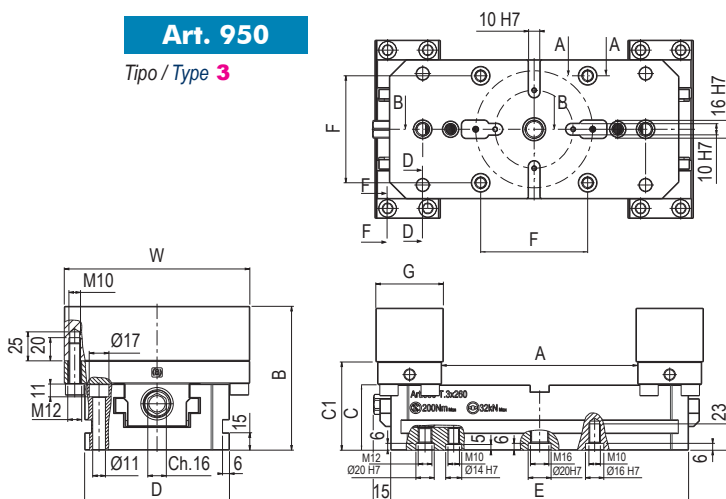
- 1 chiave a pipa Art.375 ■ 1 arresto laterale Art.370EM ■ 1 coppia di tasselli per regolazione autocentrante Art. 297 ■ 2 tasselli di posizionamento Art.650G cava a T 16 mm
- 1 perno calibrato per centraggio e orientamento Art.79 Ø16 ■ 1 Art. 650F piastra di bloccaggio slitta

Art. 950


Standard equipment:

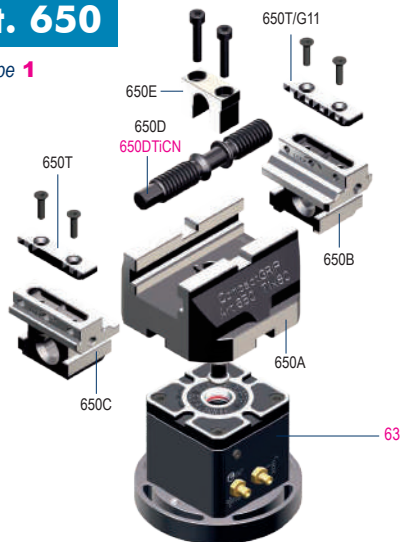
- 1 box wrench Art.375 ■ 1 workstop Art.370EM ■ 1 pair of self-centering key-nuts Art. 297
- 2 positioning key-nuts Art.650G T slot 16 mm ■ 1 calibrated centering and orientation pin Art.79 Ø16
- 1 Art. 650F slide locking plate

Art. 950

 Tipo / Type **3**


Art. 650

Tipo / Type 1

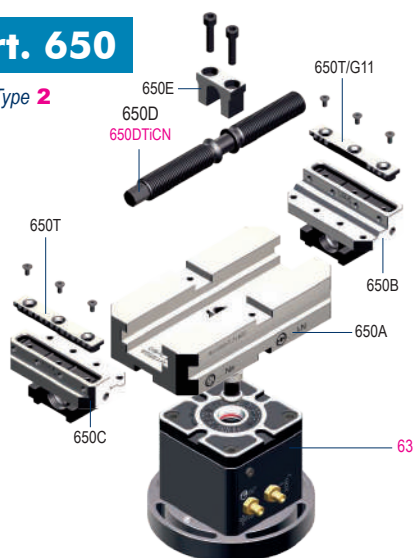


Tipo / Type 1		1x80	1x120	1x160
Art. 650A	Cod.	7.65.0A1080	7.65.0A1120	7.65.0A1160
Corpo base - Base body	€	402	462	522
Art. 650B	Cod.	7.65.0B1000		
Ganascia integrale destra Solid jaw right hand	€	140		
Art. 650C	Cod.	7.65.0C1000		
Ganascia integrale sinistra Solid jaw left hand	€	140		
Art. 650D	Cod.	7.65.0D1080	7.65.0D1120	7.65.0D1160
Vite di bloccaggio - Main screw	€	80	109	134
Art.650DTiCN (Optional)	Cod.	7.65.0D1080-TCN	7.65.0D1120-TCN	7.65.0D1160-TCN
Vite di bloccaggio a scorrimento rapido con rivestimento anti-usura TiCN Quick-slide clamping screw with anti-wear coating TiCN	€	100	142	174
Art. 650E	Cod.	7.65.0E1000		
Forcella - Yoke	€	38		

Tipo / Type		1	2
Art. 63 (Optional)	Cod.	9.63.10000	9.63.20000
Rialzo singolo con Zero Point Risers with ZeroPoint	€	1.222	2.066

Art. 650

Tipo / Type 2

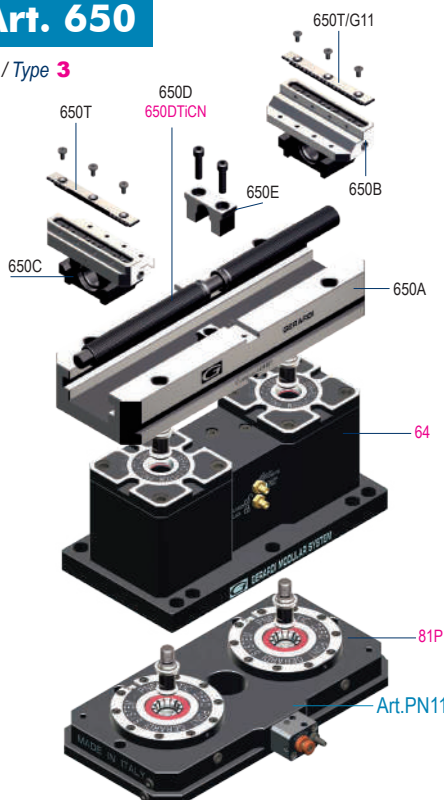


Tipo / Type 2		2x120	2x160	2x200	2x240
Art. 650A	Cod.	7.65.0A2120	7.65.0A2160	7.65.0A2200	7.65.0A2240
Corpo base - Base body	€	492	551	610	675
Art. 650B	Cod.	7.65.0B2000			
Ganascia integrale destra Solid jaw right hand	€	188			
Art. 650C	Cod.	7.65.0C2000			
Ganascia integrale sinistra Solid jaw left hand	€	188			
Art. 650D	Cod.	7.65.0D2120	7.65.0D2160	7.65.0D2200	7.65.0D2240
Vite di bloccaggio - Main screw	€	129	157	193	242
Art.650DTiCN (Optional)	Cod.	7.65.0D2120-TCN	7.65.0D2160-TCN	7.65.0D2200-TCN	7.65.0D2240-TCN
Vite di bloccaggio a scorrimento rapido con rivestimento anti-usura TiCN Quick-slide clamping screw with anti-wear coating TiCN	€	164	205	261	317
Art. 650E	Cod.	7.65.0E2000			
Forcella - Yoke	€	50			

Tipo / Type		1	2
Art. 63 (Optional)	Cod.	9.63.10000	9.63.20000
Rialzo singolo con Zero Point Risers with ZeroPoint	€	1.222	2.066

Art. 650

Tipo / Type 3



Tipo / Type 3		3x160	3x210	3x260	3x310	3x360
Art. 650A	Cod.	7.65.0A3160	7.65.0A3210	7.65.0A3260	7.65.0A3310	7.65.0A3360
Corpo base - Base body	€	795	914	1.098	1.314	1.552
Art. 650B	Cod.	7.65.0B3000				
Ganascia integrale destra Solid jaw right hand	€	336				
Art. 650C	Cod.	7.65.0C3000				
Ganascia integrale sinistra Solid jaw left hand	€	336				
Art. 650D	Cod.	7.65.0D3160	7.65.0D3210	7.65.0D3260	7.65.0D3310	7.65.0D3360
Vite di bloccaggio - Main screw	€	163	193	242	301	360
Art.650DTiCN (Optional)	Cod.	7.65.0D3160-TCN	7.65.0D3210-TCN	7.65.0D3260-TCN	7.65.0D3310-TCN	7.65.0D3360-TCN
Vite di bloccaggio a scorrimento rapido con rivestimento anti-usura TiCN Quick-slide clamping screw with anti-wear coating TiCN	€	218	266	322	407	479
Art. 650E	Cod.	7.65.0E3000				
Forcella - Yoke	€	63				

Tipo / Type		1	2
Art. 64 (Optional)	Cod.	9.64.10000	9.64.20000
Rialzo doppio con Zero Point Double riser with Zero Point	€	1.941	3.448

Non utilizzabile con morse tipo 3x160 - Impossible to use with vises type 3x160

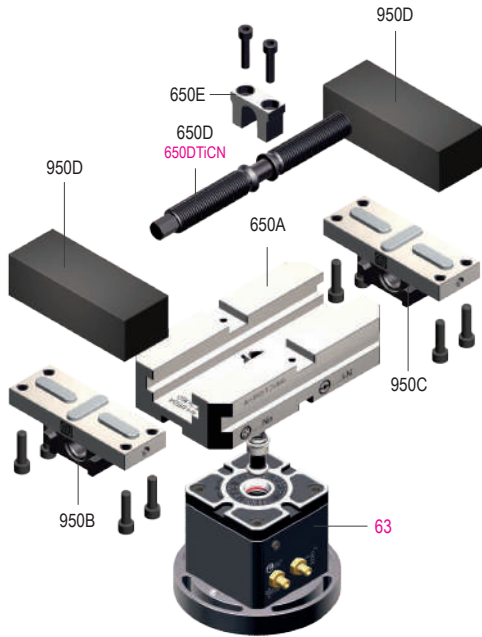
Piastra ZeroPoint, montaggio incassato - ZeroPoint Plates, built-in mounting

Art. 81P (Optional)		Acciaio Steel	Alluminio Aluminum
Piastra di interfaccia Zero Point per morse CompactGrip tipo 3 Zero Point connecting plate for CompactGrip vise Type 3	Cod.	9.81.P2040S2	9.81.P2040A2
	€	2.724	2.724

Non utilizzabile con morse tipo 3x160 / 3x210 - Impossible to use with vises type 3x160 / 3x210

Art. 950

Tipo / Type 2

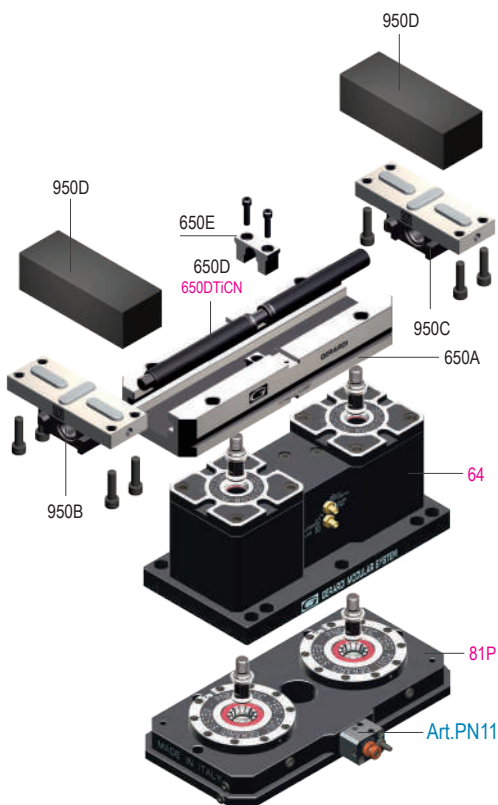


Tipo / Type 2	2x120	2x160	2x200	2x240
Art. 650A Corpo base - Base body	Cod. 7.65.0A2120	7.65.0A2160	7.65.0A2200	7.65.0A2240
€	492	551	610	675
Art. 950B Ganascia integrale destra Solid jaw right hand	Cod. 7.95.0B2000			
€	205			
Art. 950C Ganascia integrale sinistra Solid jaw left hand	Cod. 7.95.0C2000			
€	205			
Art. 650D Vite di bloccaggio - Main screw	Cod. 7.65.0D2120	7.65.0D2160	7.65.0D2200	7.65.0D2240
€	129	157	193	242
Art.650DTiCN (Optional) Vite di bloccaggio a scorrimento rapido con rivestimento anti-usura TiCN Quick-slide clamping screw with anti-wear coating TiCN	Cod. 7.65.0D2120 -TCN	7.65.0D2160 -TCN	7.65.0D2200 -TCN	7.65.0D2240 -TCN
€	164	205	261	317
Art. 650E Forcella - Yoke	Cod. 7.65.0E2000			
€	50			
Art. 950D Ganascia lavorabile in acciaio Machineable steel jaw	Cod. 7.95.0D2000			
€	75			

Tipo / Type	1	2
Art. 63 (Optional) Rialzo singolo con Zero Point Risers with ZeroPoint	Cod. 9.63.10000	9.63.20000
€	1.222	2.066

Art. 950

Tipo / Type 3



Tipo / Type 3	3x160	3x210	3x260	3x310	3x360
Art. 650A Corpo base - Base body	Cod. 7.65.0A3160	7.65.0A3210	7.65.0A3260	7.65.0A3360	7.65.0A3360
€	795	914	1.098	1.314	1.552
Art. 950B Ganascia integrale destra Solid jaw right hand	Cod. 7.95.0B3000				
€	372				
Art. 950C Ganascia integrale sinistra Solid jaw left hand	Cod. 7.95.0C3000				
€	372				
Art. 650D Vite di bloccaggio - Main screw	Cod. 7.65.0D3160	7.65.0D3210	7.65.0D3260	7.65.0D3310	7.65.0D3360
€	163	193	242	301	360
Art.650D TiCN (Optional) Vite di bloccaggio a scorrimento rapido con rivestimento anti-usura TiCN Quick-slide clamping screw with anti-wear coating TiCN	Cod. 7.65.0D3160 -TCN	7.65.0D3210 -TCN	7.65.0D3260 -TCN	7.65.0D3310 -TCN	7.65.0D3360 -TCN
€	218	266	322	407	479
Art. 650E Forcella - Yoke	Cod. 7.65.0E3000				
€	63				
Art. 950D Ganascia lavorabile in acciaio Machineable steel jaw	Cod. 7.95.0D3000				
€	97				

Tipo / Type	1	2
Art. 64 (Optional) Rialzo doppio con Zero Point Double riser with Zero Point	Cod. 9.64.10000	9.64.20000
€	1.941	3.448

Non utilizzabile con morse tipo 3x160 - Impossible to use with vises type 3x160

Piastra ZeroPoint, montaggio incassato - ZeroPoint Plates, built-in mounting

Art. 81P (Optional) Piastra di interfaccia Zero Point per morse CompactGrip tipo 3 Zero Point connecting plate for CompactGrip vise Type 3	Acciaio Steel	Alluminio Aluminum
Cod.	9.81.P2040S2	9.81.P2040A2
€	2.724	2.724

Non utilizzabile con morse tipo 3x160 / 3x210 - Impossible to use with vises type 3x160 / 3x210

GANASCE E INSERTI GANASCE PER MORSE COMPACT GRIP Art.650

JAWS & INSERT JAWS FOR COMPACT GRIP VISES Art.650

Tipo (grandezza) / Type (size)		1	2	3	
	Art. 650S LISCIA + RUVIDA SMOOTH + ROUGH Per materiali teneri e lavorazioni finali For soft material clamping and final machining	 Side 1 Side 2	Cod. 7.65.OS1000 € 81	Cod. 7.65.OS2000 € 81	Cod. 7.65.OS3000 € 81
	Art. 650R *CODA DI RONDINE DOVE TAIL Miglior presa pezzo Best workpiece clamping	 Side 1 Side 2 45°-60°	Cod. 7.65.OR1000 € 36	Cod. 7.65.OR2000 € 36	Cod. 7.65.OR3000 € 36
	Art. 650T G01 GRIP (Passo - Pitch 1,5mm) Per materiali di durezza normale For standard workpieces hardness clamping	 Side 1 Side 2 1,5x60°	Cod. 7.65.OT1000/G01 € 41	Cod. 7.65.OT2000/G01 € 52	Cod. 7.65.OT3000/G01 € 81
	Art. 650T G02 GRIP (Passo - Pitch 2mm) Per materiali di notevole durezza For hardened workpieces clamping	 Side 1 Side 2 2x90°	Cod. 7.65.OT1000/G02 € 41	Cod. 7.65.OT2000/G02 € 52	Cod. 7.65.OT3000/G02 € 81
	Art. 650T G11 GRIP (Passo - Pitch 11mm) Per materiali teneri For soft material clamping	 Side 1 Side 2 11x90°	Cod. 7.65.OT1000/G11 € 41	Cod. 7.65.OT2000/G11 € 52	Cod. 7.65.OT3000/G11 € 81

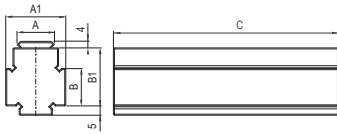
PIASTRINA FRONTALE FRONTAL JAW PLATE

Tipo (grandezza) / Type (size)		1	2	3	
	Art. 655L Piastrina LISCIA frontale con fori filettati M4 Frontal SMOOTH jaw plate with threaded holes M4	 W K X	W 50 K 8 X 3,5 Cod. 7.65.5L1000 € 37	W 80 K 10 X 5,5 Cod. 7.65.5L2000 € 48	W 115 K 10 X 5,5 Cod. 7.65.5L3000 € 60
	Art. 655M Piastrina DOLCE frontale con fori filettati M4 Frontal SOFT jaw plate with threaded holes M4	 W K X	W 50 K 8 X 10 Cod. 7.65.5M1000 € 37	W 80 K 10 X 10,5 Cod. 7.65.5M2000 € 48	W 115 K 10 X 10,5 Cod. 7.65.5M3000 € 60
	Art. 655N Piastrina ZIGRINATA frontale Frontal SERRATED jaw plate	 W K X	W 50 K 8 X 3,5 Cod. 7.65.5N1000 € 37	W 80 K 10 X 5,5 Cod. 7.65.5N2000 € 48	W 115 K 10 X 5,5 Cod. 7.65.5N3000 € 60
	Art. 655P Piastrina parallela magnetica piana frontale Frontal straight parallel magnetic plate	 W K X	W 50 K 5 X 3 Cod. 7.65.5P1000 € 37	W 80 K 7 X 5 Cod. 7.65.5P2000 € 48	W 115 K 7 X 5 Cod. 7.65.5P3000 € 61

GANASCIA FISSA CENTRALE PER MORSE COMPACT GRIP Art.650

CENTRAL FIXED JAW FOR COMPACT GRIP VISES Art.650

Tipo (grandezza) / Type (size)	1	2	3
Art. 650X Ganascia fissa centrale Central fixed jaw	A	22	22
	A1	28	29
	B	13	18
	B1	23	28
	C	88	123
Cod.	7.65.0X1000	7.65.0X2000	7.65.0X3000
€	171	199	221

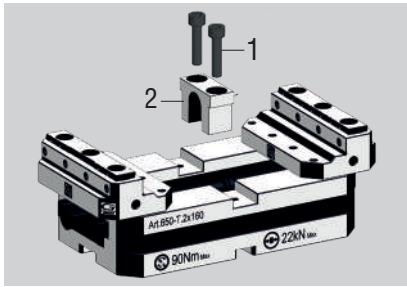


Un inserto per ganascia fissa centrale a scelta incluso (vedi tabella sotto)
 One top jaw insert as you need included (see plate below)

Cod. 7.65.0X1000 7.65.0X2000 7.65.0X3000

€ 171 199 221

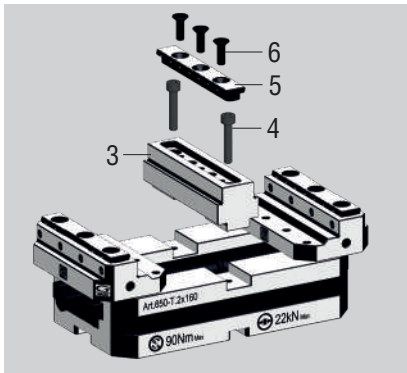
In fase d'ordine specificare il tipo di inserto - In case of order always specify the type of insert



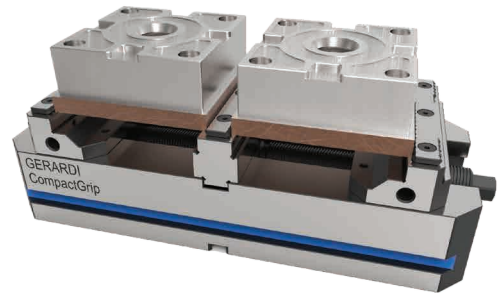
1 ISTRUZIONI OPERATIVE DI MONTAGGIO

ASSEMBLY INSTRUCTIONS

- Svitare le due viti (1) che bloccano la forcetta
- Estrarre la forcetta (2) che regola l'autocentrante
- Get the two yoke's screws (1) loosen
- Remove the yoke (2) for the self centering



- Posizionare la ganascia fissa doppia centrale (3) nella sede delle chiavette
- Inserire le viti (4) nella sede della ganascia fissa per bloccare la stessa
- Posizionare l'apposito inserto Grip (5) nella sede della ganascia fissa
- Bloccare l'inserto Grip con le viti (6)
- Place the central double fixed jaw (3) in the key nuts seat
- Place the screws (4) in their seats on the central double fixed jaw and get them tight;
- Put the Insert Grip (5) in its seat on the central double fixed jaw
- Get the Insert Grip's screws (6) tight



INSERTI GANASCE PER GANASCIA FISSA CENTRALE

INSERT JAWS FOR CENTRAL FIXED JAW

Tipo (grandezza) / Type (size)	1	2	3
Art. 650V LISCE - SMOOTH Materiali teneri e lavorazioni finali Soft material clamping and final machining	Cod. 7.65.0V1000	7.65.0V2000	7.65.0V3000
	€ 48	48	48
Art. 650Y RUVIDE - ROUGH Miglior presa pezzo Best workpiece clamping	Cod. 7.65.0Y1000	7.65.0Y2000	7.65.0Y3000
	€ 94	94	94
Art. 650U G01 GRIP (Passo - Pitch 1,5mm) Per materiali di durezza normale For standard workpieces hardness clamping	Cod. 7.65.0U1000/G01	7.65.0U2000/G01	7.65.0U3000/G01
	€ 48	60	89
Art. 650U G02 GRIP (Passo - Pitch 2mm) Per materiali di notevole durezza For hardened workpieces clamping	Cod. 7.65.0U1000/G02	7.65.0U2000/G02	7.65.0U3000/G02
	€ 48	60	89
Art. 650U G11 GRIP (Passo - Pitch 11mm) Per materiali teneri For soft material clamping	Cod. 7.65.0U1000/G11	7.65.0U2000/G11	7.65.0U3000/G11
	€ 48	60	89

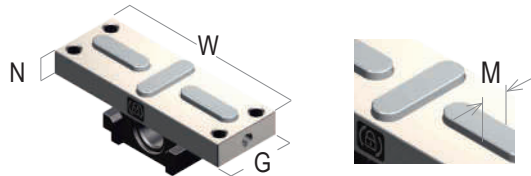
ACCESSORI PER MORSE COMPACT GRIP Art.950

Art.950 COMPACT GRIP VISES ACCESSORIES

Tipo (grandezza) / Type (size)	2	3
W	128	160
G	49	59
M	10 H7	14 H7
P	30	36
Q	23	36
Q1	110	142
R	40	50
S	Ø9	Ø11

Art. 950B

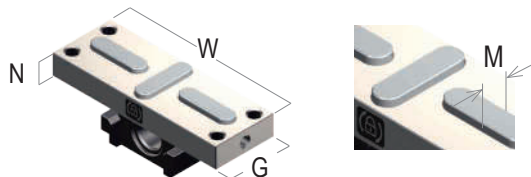
Slitta **DESTRA** con chiavette
 Solid hardened slide **RIGHT HAND**
 with positioning key nuts



N	15	20
Cod.	7.95.0B2000	7.95.0B3000
€	205	372

Art. 950C

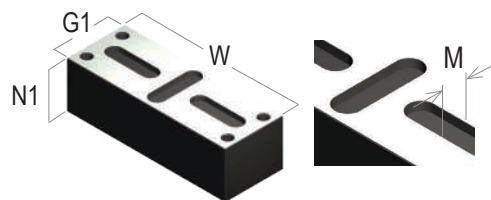
Slitta **SINISTRA** con chiavette
 Solid hardened slide **LEFT HAND**
 with positioning key nuts



N	15	20
Cod.	7.95.0C2000	7.95.0C3000
€	205	372

Art. 950D*

Ganascia lavorabile in acciaio
 Machineable steel jaw
G1= G+2 mm

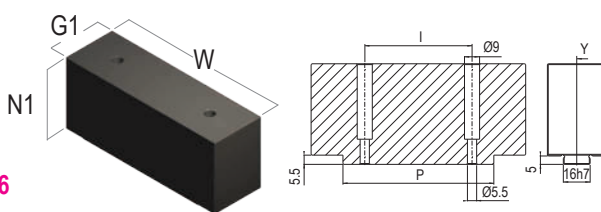


N1	30	47
Cod.	7.95.0D2000	7.95.0D3000
€	75	97

* Viti per fissaggio a richiesta **€11**
 Fixing screws on request **€11**

Art. 950X*

Ganascia fissa intermedia
 lavorabile in acciaio
 Intermediate machineable
 steel fixed jaw



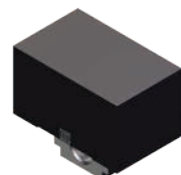
W	128	160
G1	35	50
N1	55	67
I	64	90
P	90	124
Cod.	7.95.0X2000	7.95.0X3000
€	75	97

* Viti per fissaggio a richiesta **€6**
 Fixing screws on request **€6**

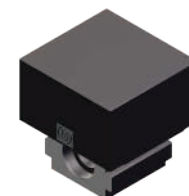
Tipo (grandezza) / Type (size)	1	2	3
A	50	88	123
B	30	50	70
C	50	55	60

Art. 650BM

Ganascia lavorabile
 filetto destro
 Soft machineable jaw
 right thread



Cod.	7.65.0BM10	7.65.0BM20
€	152	211

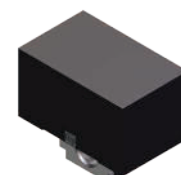


Cod.	7.65.0BM30
€	372

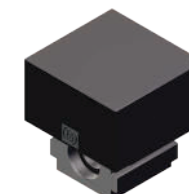
Specifiche per Art.650 Tipo1 - Specific for Art.650 type 1

Art. 650CM

Ganascia lavorabile
 filetto sinistro
 Soft machineable jaw
 left thread



Cod.	7.65.0CM10	7.65.0CM20
€	152	211



Cod.	7.65.0CM30
€	372

Specifiche per Art.650 Tipo1 - Specific for Art.650 type 1

ACCESSORI PER MORSE COMPACT GRIP Art.650 / Art.950

Art.650 / Art.950 COMPACT GRIP VISES ACCESSORIES

Tipo (grandezza) / Type (size)	1	2	3
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Art. 370EM

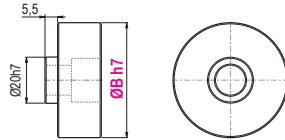
Arresto laterale magnetico
Magnetic workstop



Cod.	7.37.01000/EM	7.37.02000/EM
€	67	75

Art. 640P

Perno calibrato per centraggio
Calibrated centering pin

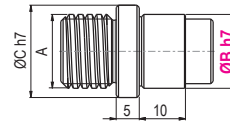


ØC h7	20		
ØB	30 - 38,1(1,5") - 50 - 50,8 (2")		
Cod.	7.64.0P100	7.64.0P200	7.64.0P300
€	28	34	40

* Specificare sempre quota B - Specify always B dimension

Art. 79

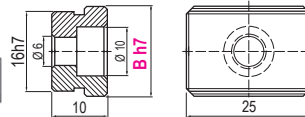
Perno calibrato per centraggio e orientamento
Calibrated centering and orientation pin



A	M10	M12	M16
ØC h7	14	14	20
ØB	10 - 12 - 14 - 16 - 18 - 20		
Cod.	7.79.14M10/ØB	7.79.14M12/ØB	7.79.20M16/ØB
€	19		

Art. 297

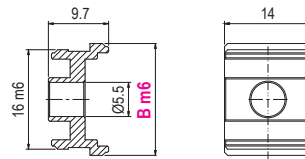
Coppia di tasselli per regolazione autocentrante
con vite M5 x 10
Pair of Self-centering key-nuts with M5 x 10 screw



B	10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 28 - 36		
Cod.	2.29.71000/10	2.29.71000/16	
€	34		

Art. 297X

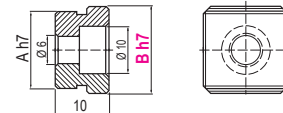
Tassello a Gioco Zero per il
posizionamento preciso
di morse singole su zero point
Key nut NO-GAP for accurate
single vise positioning on zero point



B	12 - 14 - 16 - 18 - 20		
Cod.	297X1612 / 14 / 16 / 18 / 20		
€	34		

Art. 650G

Tassello di posizionamento morse completo di viti
Key-nut for vise positioning with screws

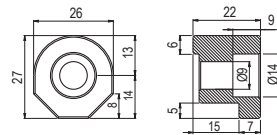


A	10	10	16
B	10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 28 - 36		
Cod.	7.65.0G1000/B	7.65.0G2000/B	
€	19		

Specificare sempre quota B - Specify always B dimension

Art. 298 / CGR

Staffa per Compact Grip
Compact Grip holding clamp



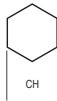
Cod.	7.29.81000/CGR		
€	17		

Tipo (grandezza) / Type (size)	1		2		3	
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Dimensioni / Dimension	CH	B	CH	B	CH	B
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Art.375

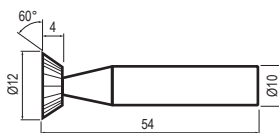
Chiave a pipa
Box wrench



Cod.	4.37.510160	4.37.512160	4.37.516250	
€	27	31	36	

Art. 690DTF


Utensile fresa per realizzare
la base del particolare da serrare con
inserti a coda di rondine Art.650R
Milling tool for working the base
of the workpiece to be clamped with
dove tail inserts Art.650R



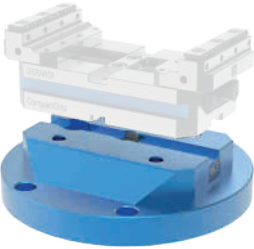
	Ø12	
Cod.	7.69.0DTF10	
€	257	

RIALZI IN ALLUMINIO PER MORSE COMPACT GRIP ART.650 / 950

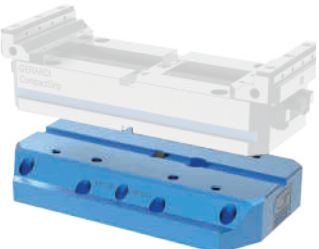
ALUMINUM RISERS FOR COMPACT GRIP VISES ART.650 / 950

Tipo (grandezza) rialzo Riser (type) size		1									
Art. 651H Tipo / Type 1 Rialzo semplice, compatibile con il sistema Zero Point 	A										
	B										
	* C	50	75	100	50	75	100	50	75	100	
	ØD										
	E										
	L										
	M										
	ØJ										
	K										
	K1										
	kg	1,08	1,41	1,75	2,09	2,63	3,17	2,40	3,15	3,90	
	Cod.	7.65.1H1080/050	7.65.1H1080/075	7.65.1H1080/100	7.65.1H1120/050	7.65.1H1120/075	7.65.1H1120/100	7.65.1H1160/050	7.65.1H1160/075	7.65.1H1160/100	
	Simple riser Zero Point ready	€	414	425	437	492	517	539	588	620	654

 Kit di fissaggio e allineamento rialzo **non incluso** / Riser fixing and alignment kit **not included**

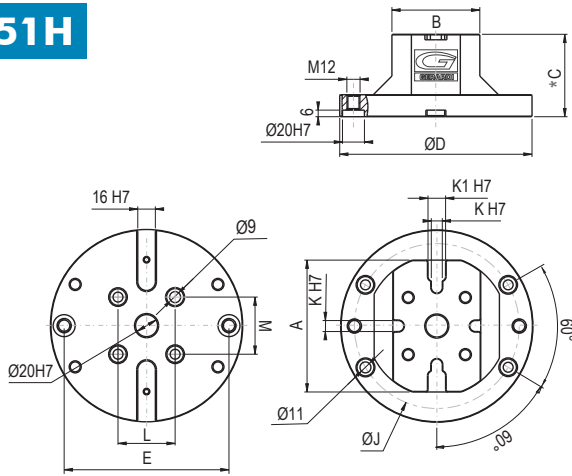
Tipo (grandezza) rialzo Riser (type) size		2												
Art. 651H Tipo / Type 2 Rialzo semplice, compatibile con il sistema Zero Point 	A													
	B													
	* C	50	75	100	50	75	100	50	75	100	50	75	100	
	ØD													
	E													
	L													
	M													
	ØJ													
	kg	3,07	3,71	4,32	3,09	3,90	4,73	3,38	4,45	5,52	4,13	5,45	6,75	
	Cod.	7.65.1H2120/050	7.65.1H2120/075	7.65.1H2120/100	7.65.1H2160/050	7.65.1H2160/075	7.65.1H2160/100	7.65.1H2200/050	7.65.1H2200/075	7.65.1H2200/100	7.65.1H2240/050	7.65.1H2240/075	7.65.1H2240/100	
	Simple riser Zero Point ready	€	588	620	654	588	620	654	588	620	654	727	773	820

 Kit di fissaggio e allineamento rialzo **non incluso** / Riser fixing and alignment kit **not included**

Tipo (grandezza) rialzo Riser (type) size		3															
Art. 651H Tipo / Type 3 Rialzo semplice, compatibile con il sistema Zero Point 	A																
	B																
	* C	50	75	100	50	75	100	50	75	100	50	75	100	50	75	100	
	ØD																
	E																
	E1																
	L																
	L1																
	M																
	M1																
	ØJ																
	ØJ1																
	kg	3,34	4,49	5,68	3,85	5,40	6,99	5,73	7,69	9,69	6,14	8,50	10,91	7,02	9,80	12,62	
	Cod.	7.65.1H3160/050	7.65.1H3160/075	7.65.1H3160/100	7.65.1H3210/050	7.65.1H3210/075	7.65.1H3210/100	7.65.1H3260/050	7.65.1H3260/075	7.65.1H3260/100	7.65.1H3310/050	7.65.1H3310/075	7.65.1H3310/100	7.65.1H3360/050	7.65.1H3360/075	7.65.1H3360/100	
	Simple riser Zero Point ready	€	680	726	769	680	726	769	1.047	1.106	1.167	1.085	1.146	1.207	1.255	1.326	1.398

 Kit di fissaggio e allineamento rialzo **non incluso** / Riser fixing and alignment kit **not included**

PIASTRE di INTERFACCIA
INTERFACE PLATES
Tipo (grandezza)
 Riser (type) size

1
Art. 651H

Tipo (grandezza)
 Riser (type) size

1
Art. 62M
CompactGrip

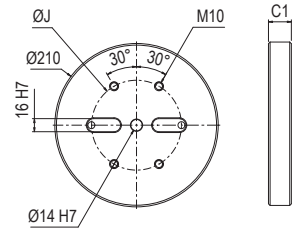
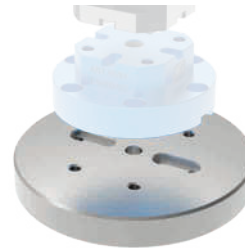
 Piastra di interfaccia lavorabile
 Machineable interface plate

ØJ	110	150	150
C1	28		

 Cod. 7.62.M651H21...
 .../108 .../112 .../116

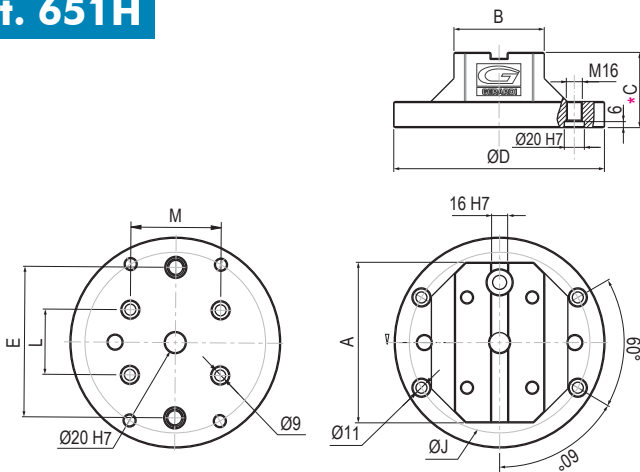
 € **208** **247** **295**

Personalizzazione non inclusa - Customization not included



Kit di fissaggio al rialzo incluso / Riser fixing and positioning kit included

Tipo (grandezza)
 Riser (type) size

2
Art. 651H

Tipo (grandezza)
 Riser (type) size

2
Art. 62M
CompactGrip

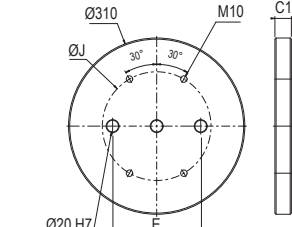
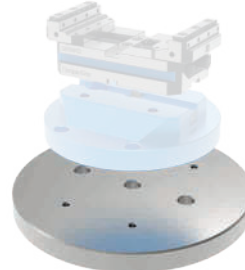
 Piastra di interfaccia lavorabile
 Machineable interface plate

ØJ	185		
C1	28		

 E - 150 150 200
 Cod. 7.62.M651H31/
 .../212 .../216 .../220 .../224

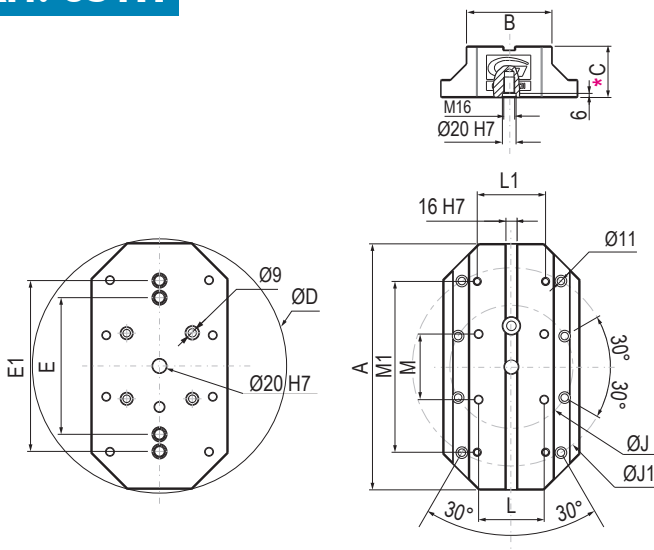
 € **295**

Personalizzazione non inclusa - Customization not included



Kit di fissaggio al rialzo incluso / Riser fixing and positioning kit included

Tipo (grandezza)
 Riser (type) size

3
Art. 651H

Tipo (grandezza)
 Riser (type) size

3
Art. 62M
CompactGrip

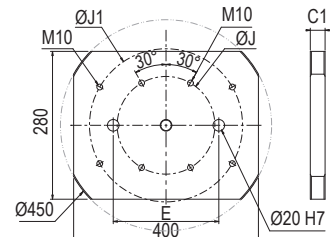
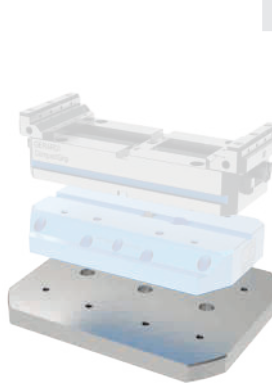
 Piastra di interfaccia lavorabile
 Machineable interface plate

ØJ	185		
C1	28		

 J1 - - 290 290 290
 E 150 150 150 150 200
 Cod. 7.62.M651H45/
 .../316 .../321 .../326 .../331 .../336

 € **341**

Personalizzazione non inclusa - Customization not included



Kit di fissaggio al rialzo incluso / Riser fixing and positioning kit included

A Modular Positioning Clamping System

QUICK CHANGE PLATES



Precisione / Accuracy
 $\pm 0,02\text{mm}$



Durezza / Hardened
HRC 55 \pm 2

Sostituisci rapidamente l'attrezzatura per un Flusso di lavoro Continuo
Rapid Equipment Replacement for Seamless Workflow

Caratteristiche e Vantaggi: Features and Advantages:

- ✓ IDEALI PER CENTRI A 5 ASSI MA NON
- ✓ RAPIDITÀ DI ATTREZZAMENTO MACCHINA
- ✓ ABBATTIMENTO DEI TEMPI MORTI
- ✓ MODULARITÀ E VERSATILITÀ
- ✓ ACCELERAZIONE DELLA PRODUZIONE
- ✓ DISPONIBILI CON DOPPIO INTERASSE
- ✓ INFINITE COMBINAZIONI POSSIBILI
- ✓ DESIGN COMPATTO E MANEGGEVOLEZZA
- ✓ RIALZI COMPATIBILI
- ✓ IDEAL FOR 5-AXIS CENTERS BUT NOT ONLY
- ✓ QUICK MACHINE SET-UP
- ✓ REDUCTION OF DOWNTIME
- ✓ MODULARITY AND VERSATILITY
- ✓ AVAILABLE WITH DOUBLE PITCHES
- ✓ INFINITE POSSIBLE COMBINATIONS
- ✓ COMPACT DESIGN HANDLING
- ✓ ZERO POINT READY
- ✓ COMPATIBLE RISERS



Il Tempo è Denaro Time is Money

Mentre la prima morsa sta operando montata sul centro di lavoro, hai tutto il tempo necessario per preparare la seconda, pronta da fare entrare in azione appena la prima avrà terminato il suo compito, garantendo una produzione

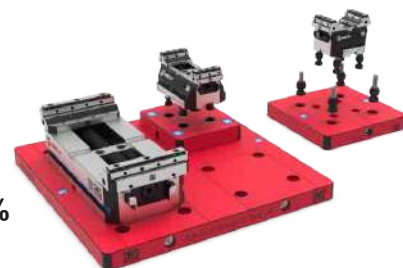
While the first vise is in operation mounted on the workstation, you have all the necessary time to prepare the second one, ready to come into action as soon as the first one completes its task, ensuring uninterrupted production.



Rapidità e Leggerezza Speed and Lightness

La ridotta dimensione e la compattezza del Sistema Modulare a Cambio Rapido consentono di equipaggiare la macchina con Morse di dimensioni ridotte e di effettuare sostituzioni dell'attrezzatura con carichi e pesi estremamente leggeri.

The small size and compactness of the Modular Quick Change System allows the machine to be equipped with smaller vises and make equipment changes with extremely light loads and weights.



Modulari al 100% 100% Modular

Le Modularità delle Piastre a Cambio Rapido offre la possibilità di adattare la configurazione della tua tavola macchina secondo le tue esigenze!

The modularity of Quick-Change Plates allows you to adapt the configuration of your machine table according to your needs!



ROUNDLOCK SYSTEM

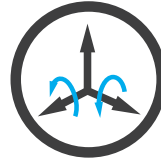
Bloccare pezzi tondi non è mai stato così semplice!
Clamping round pieces has never been easier!

Il sistema di serraggio RoundLock è progettato per semplificare la tecnica di presa di componenti di diametro compreso tra 6 e 34. Grazie al suo design ergonomico permette di ottenere il massimo della accessibilità durante le operazioni di fresatura. Utilizzando comuni pinze ER50 che possono essere sostituite con pinze ad alta precisione per massimizzarne le prestazioni. È dotato di passaggio barra per poter lavorare i componenti in serie e l'interfaccia per sistema Zero Point e Quick Change, unita alla sua leggerezza, lo rende l'ideale per incrementare l'efficienza attraverso la sua installazione manuale o tramite robot.

The RoundLock clamping system is designed to simplify the clamping technique of components between 6 and 34 in diameter. Thanks to its ergonomic design it allows to obtain maximum accessibility during milling operations and uses common ER50 collets that can substituted with high-precision collets to maximize its performance. It is equipped with a bar passage to be able to work the components in series and the interface for Zero Point and Quick Change system combined with its lightness makes it the ideal tool to increase efficiency through its manual installation or via robot.

Le Piastre a Cambio Rapido sono un sistema meccanico per il rapido posizionamento e bloccaggio di attrezzature e per il serraggio di particolari che si distingue per la sua vasta gamma di varianti, offrendo una soluzione adatta a ogni tipo di macchina utensile. Sia che si tratti di forme rotonde, rettangolari o quadrate, per il bloccaggio singolo o multiplo, questo sistema può essere utilizzato in modo universale su centri di lavoro verticali e orizzontali, su tavole a 3 e 5 assi e può essere integrato e ampliato secondo le necessità. Questo semplice sistema modulare è caratterizzato da un numero ridotto di particolari garantendo una lunga durata e pochissima manutenzione.

The Quick-Change Plates are a mechanical system for the rapid positioning and clamping of fixtures for securing workpieces that stands out for its wide range of variations, offering a solution suitable for every type of machine tool. Whether it's round, rectangular, or square shapes, for single or multiple clamping, this system can be universally used on vertical and horizontal machining centers, on 3-axis and 5-axis plates, and can be integrated and expanded according to needs. This simple modular system is characterized by a reduced number of components, ensuring long-lasting durability and minimal maintenance.



SCAN IT TO WATCH THE



VIDEO PRESENTATION



*Accellera la produzione
ed Abbatti i Tempi Morti*

*Reduce downtime and
Accelerate your production*

Art. 650

CompactGrip

Le più compatte
The most compact

Art. 662D

Con Doppio Interasse
With Double Pitch



Art. 662S

Piastra a Cambio Rapido Multipla
Multiple Quick Change Plate



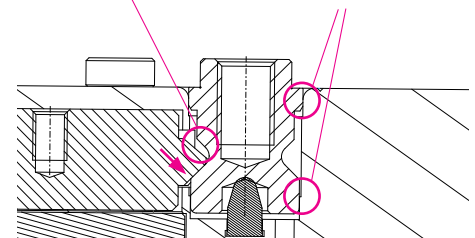
**Perni di Posizionamento
Positioning Pins**

L'interasse dei perni di posizionamento per le Piastre a Cambio Rapido può essere da 52 e 96mm permettendo di avere un ingombro minimo dell'attrezzatura e di massimizzare lo spazio di lavoro del particolare.

The spacing of the positioning pins for Quick Change Plates can be 52 and 96mm allowing for minimal tooling space and maximizing the workspace of the part.

Forza di serraggio
in spinta verso il basso
Clamping force pushing
downward

Zona di contatto di 2 estremi
per la massima rigidità
Contact zone at both ends
for maximum rigidity



PIASTRE CAMBIO RAPIDO MECCANICHE RETTANGOLARI

MECHANICAL RECTANGULAR QUICK CHANGE PLATES

Per Morse Tipo - For Vises Type	1 - 2	3
INTERASSE - PITCH	52	96
Art. 660 INTERASSE SINGOLO SINGLE PITCH		
A	100	150
B	50	50
B1	-	100
C	27	27
D	116	156
E	150	190
F	52	96
L	Ø12 h7	Ø16 h7
L1	M8	M10
kg	3	5,2
Cod.	9.66.05200	9.66.09600
€	787*	1.133*

Piastra cambio rapido rettangolare ad interasse 52 o 96 con chiavette e fori calibrati
 Rectangular Quick Change table with 52 or 96 interaxis with keyways and calibrated holes



Per Morse Tipo - For Vises Type	1 - 2	3
INTERASSE - PITCH	52	96
Art.660S* DOLCE LAVORABILE SOFT MACHINABLE		
C	27	27
D	126	156
E	150	190
F	52	96
L	Ø12h7	Ø16h7
L1	M8	M10
kg	-	-
Cod.	9.66.0S520	9.66.0S960
€	638*	870*

Piastra cambio rapido rettangolare lavorabile ad interasse 52 o 96
 Rectangular machinable Quick Change table with 52 or 96 interaxis



Personalizzazione esclusa - Customization not included

Per Morse Tipo - For Vises Type	1 - 2 - 3
INTERASSE - PITCH	52
Art. 660R RIDUZIONE REDUCTION	
B	96
C	27
D	126
E	150
F	52
L	Ø12h7
L1	M8
kg	3,75
Cod.	9.66.0R210
€	696*

Piastra cambio rapido rettangolare di riduzione da interasse 96 a 52
 Rectangular reduction Quick Change from 96 to 52 interaxis



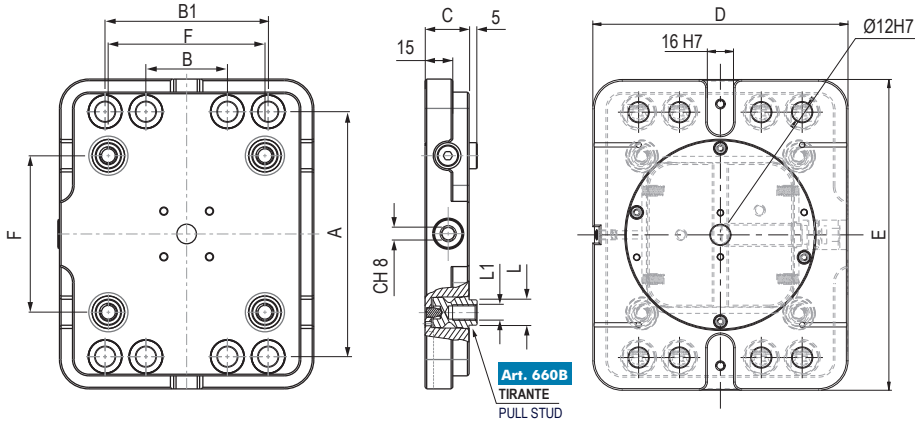
* Non disponibili per il mercato Tedesco e Austriaco - * Not available for German and Austrian market

PIASTRE CAMBIO RAPIDO MECCANICHE RETTANGOLARI

MECHANICAL RECTANGULAR QUICK CHANGE PLATES

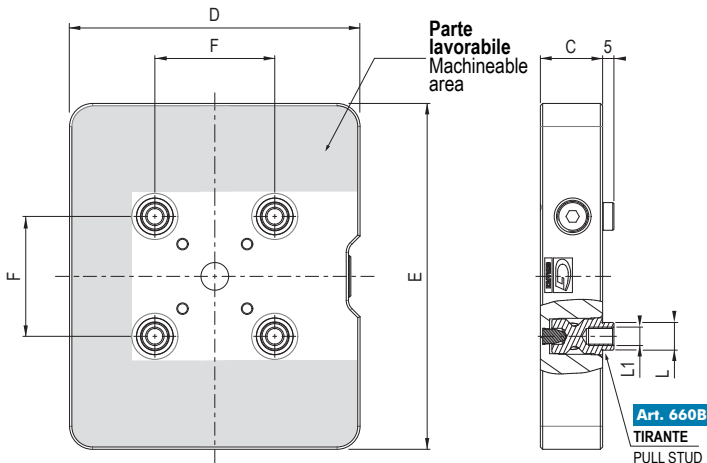
Art. 660

Dotazione standard - Standard equipment:
 N°4 Tiranti Art.660B - # 4 Pull-studs Art.660B



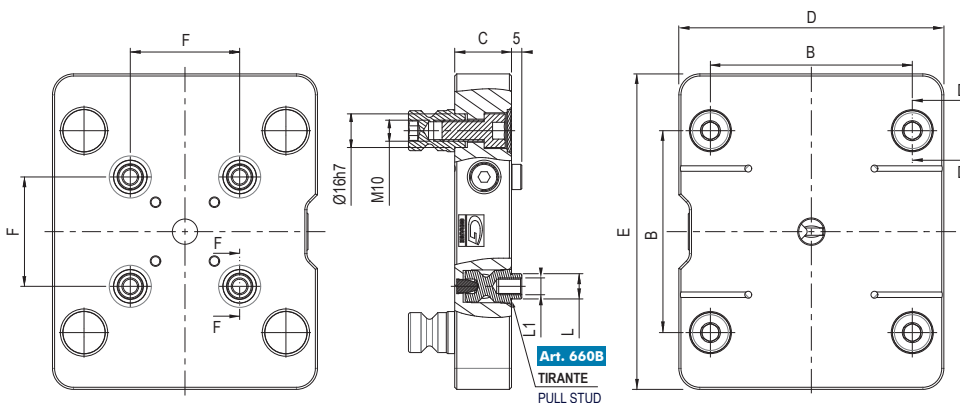
Art. 660S

Dotazione standard - Standard equipment:
 N°4 Tiranti Art.660B - # 4 Pull-studs Art.660B



Art. 660R

Dotazione standard - Standard equipment:
 N°4 Tiranti Art.660B - # 4 Pull-studs Art.660B



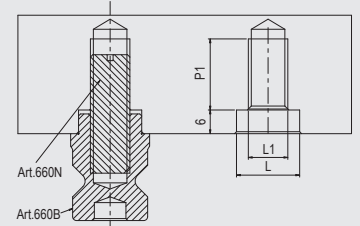
Art. 660B

Tiranti per piastra cambio rapido
 Quick change table pull studs



Tipo - Type 1

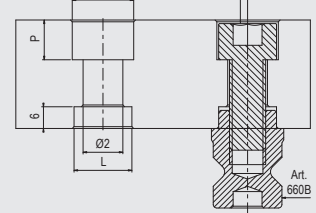
Tipo - Type 2



Art.660N

Art.660B

Vite testa cilindrica esagono incassato
 Socket head cap screws DIN912 / ISO4762



Type	1	2
L	Ø12 h7	Ø16 h7
L1	M8	M10
Ø1	14	17
Ø2	9	11
P	9	11
P1	12	18
Code	9.66.0B100	9.66.0B200
€	31	33



PIASTRE CAMBIO RAPIDO MECCANICHE
MECHANICAL QUICK CHANGE PLATES
NEW
2024

Per Morse Tipo - For Vises Type		1 - 2 - 3	
INTERASSE - PITCH		52 / 96	
Art. 662D DOPPIO INTERASSE DOUBLE PITCH Piastra cambio rapido quadrata lavorabile a doppio interasse 52 e 96 Square machinable Quick Change table with double interaxis 52 and 96	A	191,5	
	B	52	
	B1	96	
	C	27	
	D	122	
	E	132	
	F	Ø10 H7	
	G	150	
	kg	7,5	
	Cod.	9662D5296	
	€	1.500	



Per Morse Tipo - For Vises Type		1 - 2		3	
INTERASSE - PITCH		52		96	
Art. 661D DOPPIO INTERASSE DOUBLE PITCH Piastra cambio rapido tonda lavorabile a doppio Interasse 52 e 96 Round machinable Quick Change table with double interaxis 52 and 96	A	196			
	B	52			
	B1	96			
	C	27			
	D	122			
	E	132			
	F	Ø10 H7			
	G	150			
	H	191,5			
	kg	6			
	Cod.	9661D5296			
€	1.500				



Interasse - Interaxis		52		96		96	
PASSAGGIO BARRA - BAR PASSAGE		Ø52 4 Azionamenti/4 Drives		Ø52 2 Azionamenti/2 Drives		Ø110 4 Azionamenti/4 Drives	
Art.661SPB PASSAGGIO BARRA BAR PASSAGE Piastra cambio rapido tonda lavorabile con passaggio barra Round machinable Quick Change table with bar passage	A	Ø158		Ø196		Ø196	
	B	52		96		96	
	C	27		27		27	
	D	34		123		78	
	E	70		123		114	
	F	Ø10 H7		Ø10 H7		Ø10 H7	
	G	135		140		140	
	H	155		191,5		191,5	
	I	Ø52		Ø52		Ø110	
	Kg	3,6		5,6		4,3	
	Cod.	9661SPB52-52		9661SPB96		9661SPB96-110	
€							



* Non disponibili per il mercato Tedesco e Austriaco - * Not available for German and Austrian market

PIASTRE CAMBIO RAPIDO MECCANICHE

MECHANICAL QUICK CHANGE PLATES

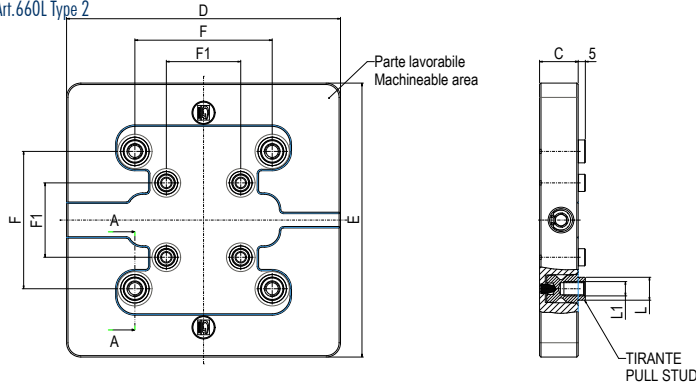
Art. 662D

Dotazione standard - Standard equipment:

N°8 Tiranti Art.660B (4x660BT1) + 4x660BT2) - # 8 Pull-studs Art.660B (4x660BT1 + 4x660BT2)

N°4 Tappi Art.660L Tipo 1 - # 4 Caps Art.660L Type 1

N°4 Tappi Art.660L Tipo 2 - # 4 Caps Art.660L Type 2



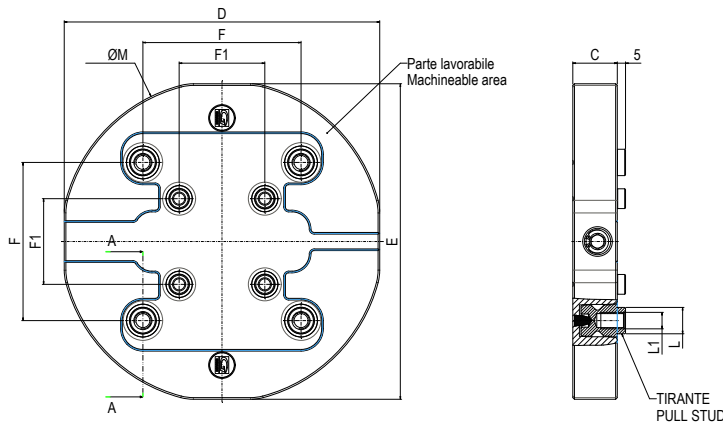
Art. 661D

Dotazione standard - Standard equipment:

N°8 Tiranti Art.660B (4x660BT1) + 4x660BT2) - # 8 Pull-studs Art.660B (4x660BT1 + 4x660BT2)

N°4 Tappi Art.660L Tipo 1 - # 4 Caps Art.660L Type 1

N°4 Tappi Art.660L Tipo 2 - # 4 Caps Art.660L Type 2



Art.661SPB

Dotazione standard - Standard equipment:

Ø52-Ø52

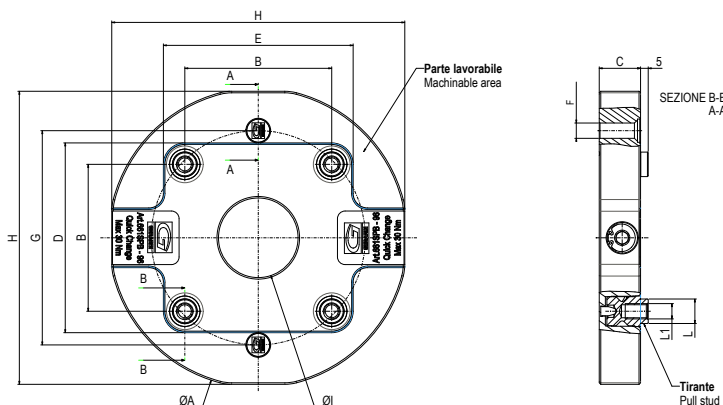
- 4 x Art.660B T1
- 2 x Art.C96 Ø18
- 1 x Art.C96PBQ Ø60

Ø96-Ø52

- 4 x Art.660B T2
- 2 x Art.C96 Ø18
- 1 x Art.C96PBQ Ø50

Ø96-Ø110

- 4 x Art.660B T2
- 2 x Art.C96 Ø18
- 1 x Art.C96PBQ Ø160



Art. 660B

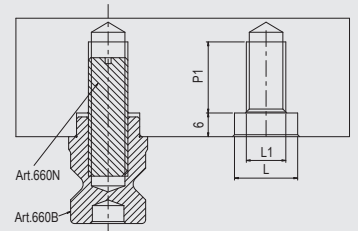
Tiranti per piastra cambio rapido

Quick change table pull studs



Tipo - Type 1

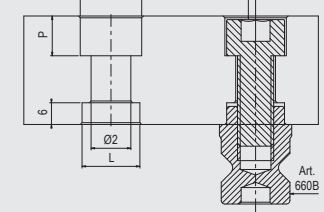
Tipo - Type 2



Art.660N

Art.660B

Vite testa cilindrica esagono incassato
Socket head cap screws DIN912 / ISO4762



Type	1	2
L	Ø12 h7	Ø16 h7
L1	M8	M10
Ø1	14	17
Ø2	9	11
P	9	11
P1	12	18
Code	9.66.0B100	9.66.0B200
€	31	33



PIASTRE CAMBIO RAPIDO MECCANICHE COMBINABILI
MECHANICAL JOINABLE QUICK CHANGE PLATES
NEW
2024
Per Morse Tipo - For Vises Type
INTERASSE - PITCH
3
96
Art. 662S
SINGOLA
SINGLE

 Piastra cambio rapido combinabile quadrata lavorabile singola ad interasse 96
 Square machinable single Quick Change table with 96 interaxis


A	191,5
B	96
C	27
D	122
E	122
F	Ø10 H7
G	160
kg	7,6
Cod.	9662S960

€ 1.300*

Personalizzazione esclusa - Customization not included

Per Morse Tipo - For Vises Type
INTERASSE - PITCH
3
96
Art.662S
DOPPIA
DOUBLE

 Piastra cambio rapido combinabile rettangolare lavorabile doppia ad interasse 96
 Rectangular machinable mixable double Quick Change table with 96 interaxis

 2 Azionamenti
 2 Drives

A	191,5
A1	383,5
B	96
C	27
D	125
E	67
F	Ø10 H7
G	352
kg	15
Cod.	9662S962

€ 1.800

Personalizzazione esclusa - Customization not included

Per Morse Tipo - For Vises Type
INTERASSE - PITCH
3
96
Art. 662S
MULTIPLA
MULTIPLE

 Piastra cambio rapido combinabile quadrata lavorabile multipla ad interasse 96
 Square machinable mixable multiple Quick Change table with 96 interaxis

 4 Azionamenti
 4 Drives

A	383,5
A1	96
B	27
C	125
D	67
E	63,5
F	Ø10 H7
G	352
kg	30
Cod.	9662S964

€ 3.500

Personalizzazione esclusa - Customization not included

*** Non disponibili per il mercato Tedesco e Austriaco - * Not available for German and Austrian market**

PIASTRE CAMBIO RAPIDO MECCANICHE COMBINABILI

MECHANICAL JOINABLE MODULAR QUICK CHANGE PLATES

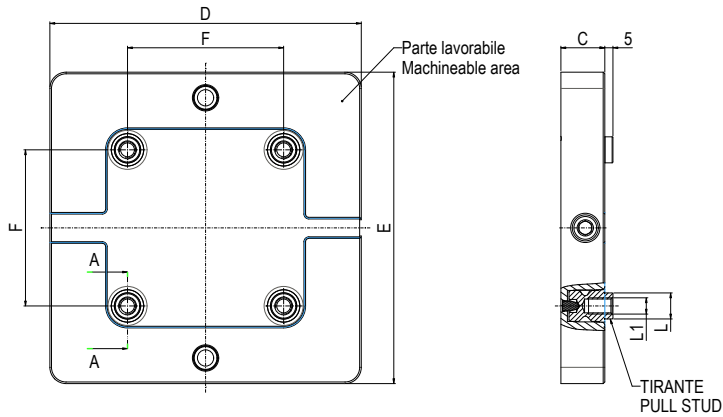
Art. 662S

SINGOLA
SINGLE

Dotazione standard - Standard equipment:

N°4 Tiranti Art.660B Tipo 2 - # 4 Pull-Studs Art.660B Type 2

N°4 Falsi Tiranti Art.6600 Tipo 2 - # 4 Fake Pull-Studs Art.6600 Type 2



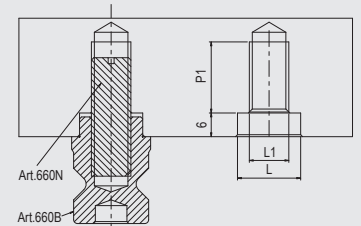
Art. 660B

Tiranti per piastra cambio rapido
Quick change table pull studs

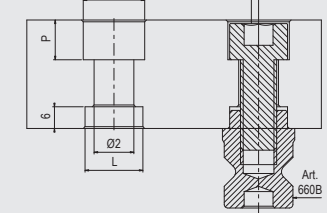


Tipo - Type 1

Tipo - Type 2



Vite testa cilindrica esagono incassato
Socket head cap screws DIN912 / ISO4762



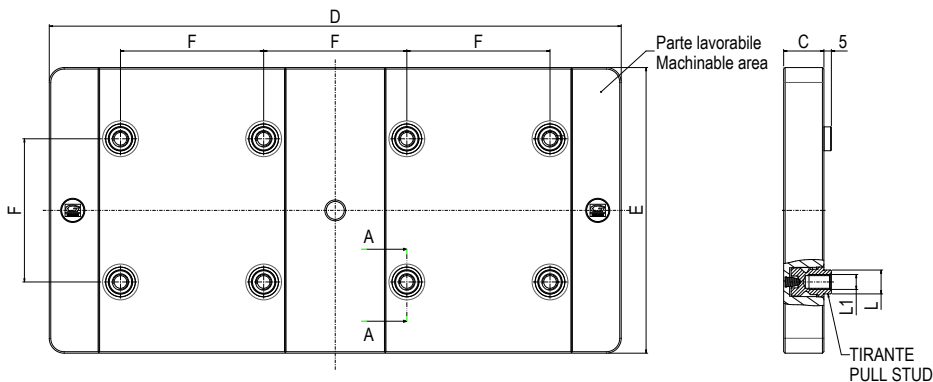
Art.662S

DOPPIA
DOUBLE

Dotazione standard - Standard equipment:

N°8 Tiranti Art.660B Tipo 2 - # 8 Pull-Studs Art.660B Type 2

N°8 Falsi Tiranti Art.6600 Tipo 2 - # 8 Fake Pull-Studs Art.6600 Type 2



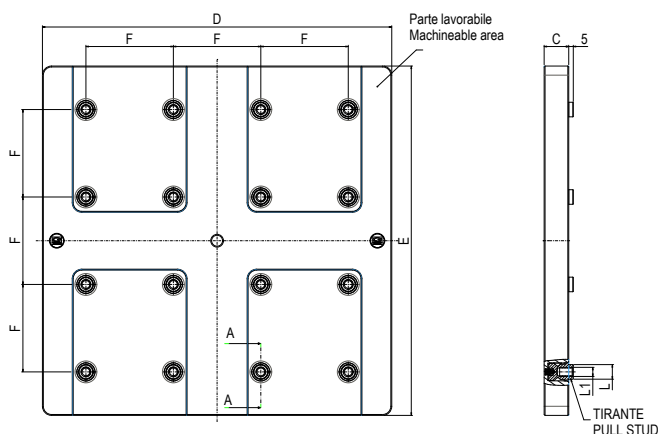
Art. 662S

MULTIPLA
MULTIPLE

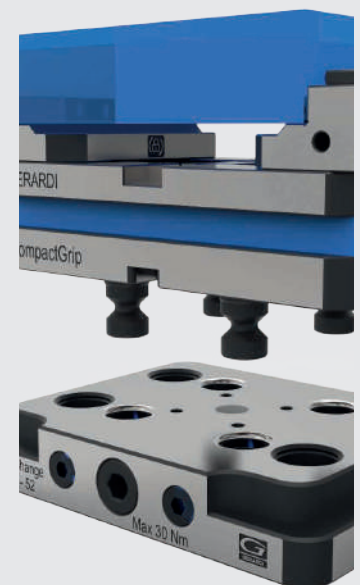
Dotazione standard - Standard equipment:

N°16 Tiranti Art.660B Tipo 2 - # 16 Pull-Studs Art.660B Type 2

N°16 Falsi Tiranti Art.6600 Tipo 2 - # 16 Fake Pull-Studs Art.6600 Type 2



Type	1	2
L	Ø12 h7	Ø16 h7
L1	M8	M10
Ø1	14	17
Ø2	9	11
P	9	11
P1	12	18
Code	9.66.0B100	9.66.0B200
€	31	33



PIASTRE CAMBIO RAPIDO TONDE

ROUNDED QUICK CHANGE PLATES

Per Morse Tipo - For Vises Type		1 - 2		3	
INTERASSE - PITCH		52		96	
Art. 661 INTERASSE SINGOLO SINGLE PITCH Piastra cambio rapido tonda ad interasse 52 o 96 con chiavette e fori calibrati Round Quick Change plate with 52 or 96 interaxis with key-ways and calibrated holes	ØA	158		196	
	ØB	120		175	
	C	27		27	
	F	52		96	
	L	Ø12h7		Ø16h7	
	L1	M8		M10	
	kg	3,4		5,6	
	Cod.	9.66.15200		9.66.19600	
	€	754*		1.102*	



Per Morse Tipo - For Vises Type		1 - 2		3		
INTERASSE - PITCH		52		96		
Art. 661S DOLCE LAVORABILE SOFT MACHINABLE Piastra cambio rapido tonda lavorabile ad interasse 52 o 96 Round machinable Quick Change plate with 52 or 96 interaxis	A	158		196	250	300
	C	27		27	27	27
	F	52		96	96	96
	L	Ø12h7		Ø16h7	Ø16h7	Ø16h7
	L1	M8		M10	M10	M10
	kg	3,8		6,1	10	15
	Cod.	9.66.1S520		9.66.1S960	9.66.1S960-250	9.66.1S960-300
	€	696*		1.159*	1.647	1.750



Personalizzazione esclusa - Customization not included

Per Morse Tipo - For Vises Type		1 - 2 - 3	
INTERASSE - PITCH		52 - 96	
Art. 661R RIDUZIONE DA 96 A 52 REDUCTION FROM 96 TO 52 Piastra cambio rapido tonda di riduzione da interasse 96 a 52 Round reduction Quick Change from 96 to 52 interaxis	ØA	158	
	B	96	
	C	27	
	F	52	
	L	Ø12h7	
	L1	M8	
	kg	3,75	
	Cod.	9.66.1R210	
	€	870*	



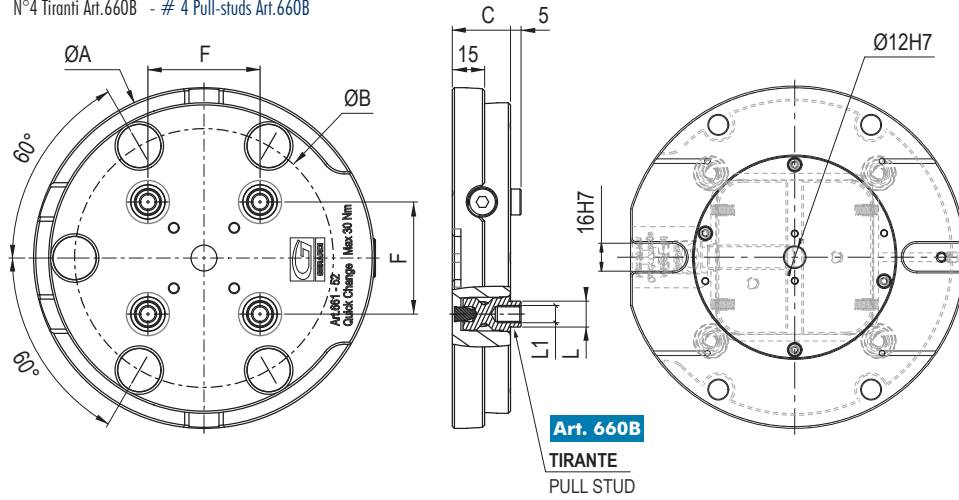
* Non disponibili per il mercato Tedesco e Austriaco - * Not available for German and Austrian market

PIASTRE CAMBIO RAPIDO TONDE

ROUNDED QUICK CHANGE PLATES

Art. 661

Dotazione standard - Standard equipment:
 N°4 Tiranti Art.660B - # 4 Pull-studs Art.660B



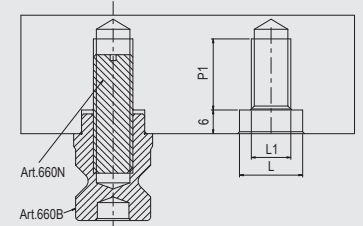
Art. 660B

Tiranti per piastra cambio rapido
 Quick change table pull studs

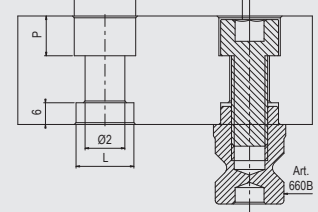


Tipo - Type 1

Tipo - Type 2



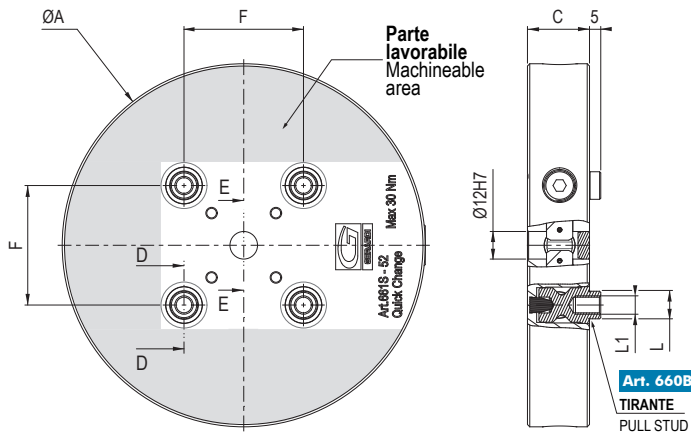
Vite testa cilindrica esagono incassato
 Socket head cap screws DIN912 / ISO4762



Type	1	2
L	Ø12 h7	Ø16 h7
L1	M8	M10
Ø1	14	17
Ø2	9	11
P	9	11
P1	12	18
Code	9.66.0B100	9.66.0B200
€	31	33

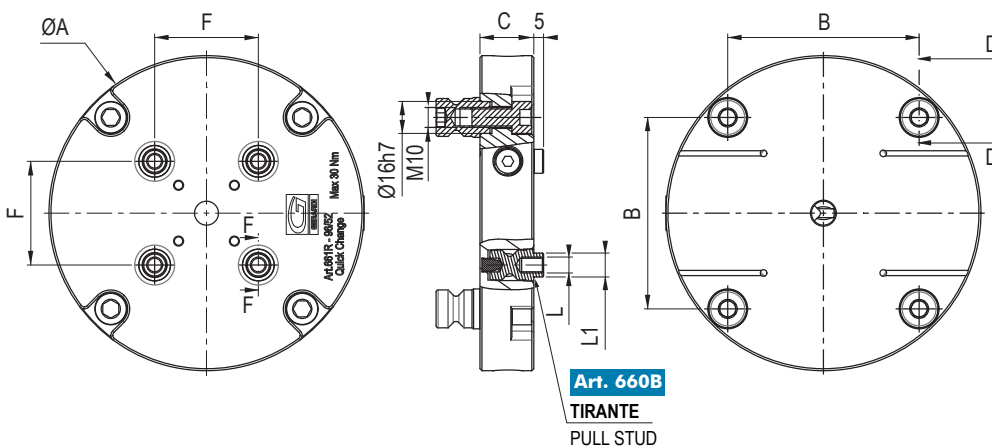
Art. 661S

Dotazione standard - Standard equipment:
 N°4 Tiranti Art.660B - # 4 Pull-studs Art.660B



Art. 661R

Dotazione standard - Standard equipment:
 N°4 Tiranti Art.660B - # 4 Pull-studs Art.660B



SISTEMA DI SERRAGGIO ROUNDLOCK
ROUNDLOCK CLAMPING SYSTEM
NEW
2024

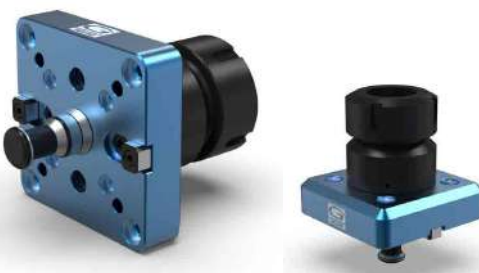
Tipo - Type INTERASSE - PITCH	52	96
Art.740PB PASSAGGIO BARRA PER QUICK CHANGE BAR PASSAGE QUICK CHANGE READY		
Sistema di serraggio RoundLock con passaggio barra con tiranti per piastra cambio rapido interasse 52 o 96 RoundLock clamping system with bar passage with pull-studs for Quick Change table 52 or 96 interaxes Utilizzo ideale in accoppiata con Art.661SPB Ideal usage in combination with Art.661SPB		
A		120
B		52
B1		96
C		33
ØD		Ø35
E		72
F		72
G		Ø9 (per vite / for screw M8)
H		16 H7
I		Ø78
J		114
K		ER50 Ø6 - Ø34
kg		3,2
Cod.	7740QC52PB	7740QC96PB
€	1.010*	1.013*

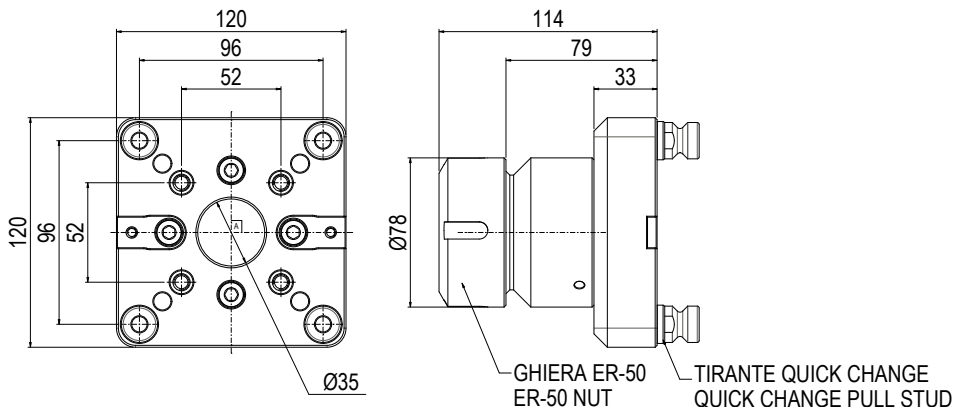
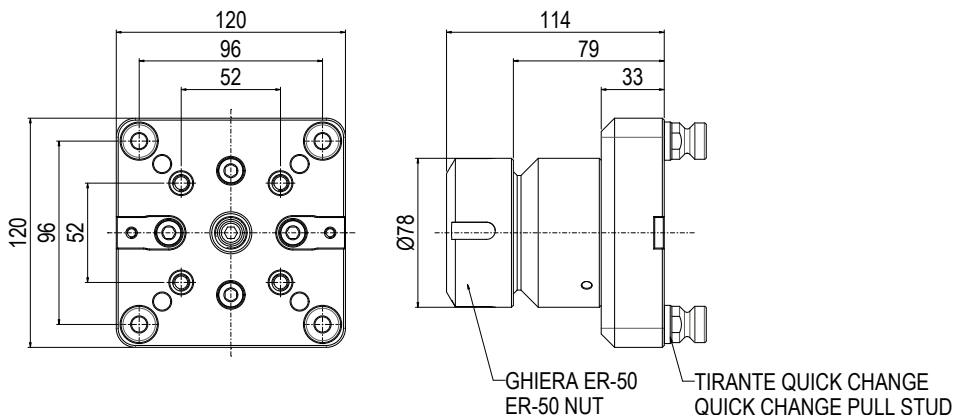
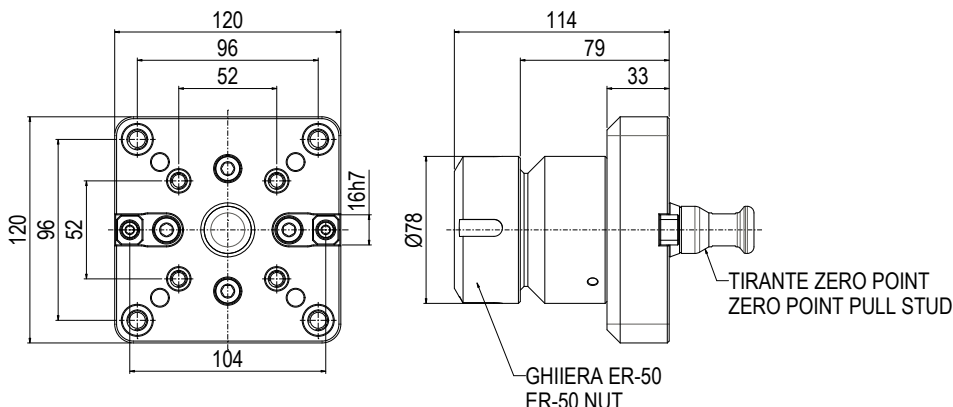


Tipo - Type INTERASSE - PITCH	52	96
Art.740QC PER QUICK CHANGE QUICK CHANGE READY		
Sistema di serraggio RoundLock senza passaggio barra con tiranti per piastra cambio rapido interasse 52 o 96 RoundLock clamping system without bar passage with pull-studs for Quick Change plate 52 or 96 interaxes		
A		120
B		52
B1		96
C		33
D		Ø20 H7
E		72
F		72
G		Ø9 (per vite / for screw M8)
H		16 H7
I		Ø78
J		114
K		ER50 Ø6 - Ø34
kg		3,3
Cod.	7740QC5200	7740QC9600
€	812*	815*



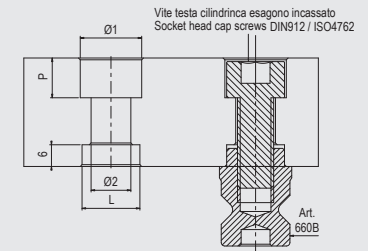
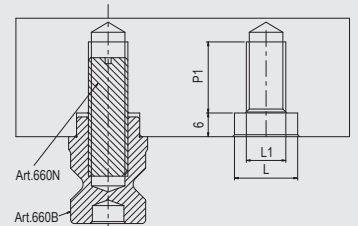
Tipo - Type INTERASSE - PITCH	
Art.740ZPS PER ZERO POINT ZERO POINT READY	
Sistema di serraggio RoundLock senza passaggio barra con tirante e tasselli per montaggio su unità Zero Point Singolo Art.665S Tipo 2 RoundLock clamping system without bar passage with pull-stud and key-nuts for set-up on Single Zero Point unit Art.665S Type 2	
A	120
B	52
B1	96
C	33
E	72
F	72
G	Ø9 (per vite / for screw M8)
H	16H7
I	Ø78
J	114
K	ER50 - Ø6 - Ø34
kg	3,3
Cod.	7740ZPS200
€	717



SISTEMA DI SERRAGGIO ROUNDLOCK
ROUNDLOCK CLAMPING SYSTEM
Art.740PB
PASSAGGIO BARRA
BAR PASSAGE

Art.740QC
PASSAGGIO BARRA
BAR PASSAGE

Art.740ZP
PER ZERO POINT
ZERO POINT READY

Art. 660B

 Tiranti per piastra cambio rapido
 Quick change table pull studs


Tipo - Type 1 Tipo - Type 2



Type	1	2
L	Ø12 h7	Ø16 h7
L1	M8	M10
Ø1	14	17
Ø2	9	11
P	9	11
P1	12	18
Code	9.66.0B100	9.66.0B200
€	31	33



RIALZI SEMPLICI IN ALLUMINIO PER PIASTRA A CAMBIO RAPIDO

SIMPLE ALUMINUM RISERS for QUICK CHANGE TABLE

Per Morse Tipo - For Vises Type
INTERASSE - PITCH

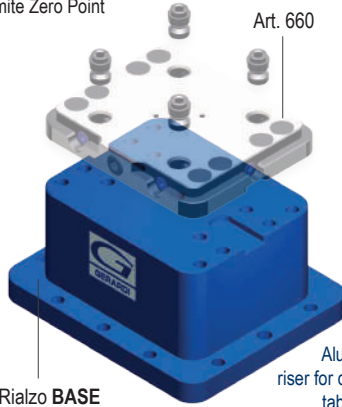
1 - 2
52

3
96

Art. 661H



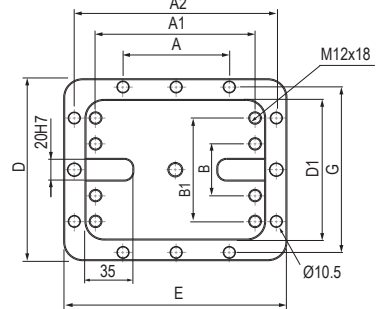
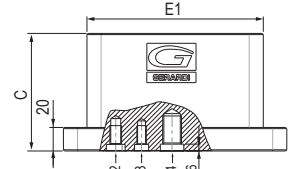
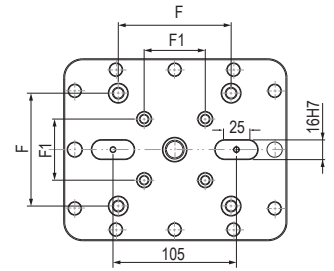
Rialzo base in alluminio per piastra cambio rapido, possibilità di montaggio con staffe o tramite Zero Point



Rialzo **BASE**
 BASE riser
 Art. 661H

Art. 660
 Aluminum base riser for quick change table. Mounting possibility through vise holding clamps and Zero Point system

A	100	100
A1	-	150
A2	170	190
B	50	50
B1	-	100
C	100	100
D	156	176
D1	116	136
E	190	210
E1	150	170
F	96	96
F1	52	52
G	136	160
L2	Ø16 H7 / M10	Ø16 H7 / M10
L3	Ø12 H7 / M8	Ø12 H7 / M8
L4	Ø20 H7 / M16	Ø20 H7 / M16
kg	5	6,5
Cod.	9.66.1H520	9.66.1H960
€	812	1.043



Kit di fissaggio e allineamento rialzo **non incluso** / Riser fixing and alignment kit **not included**

Per Morse Tipo - For Vises Type
INTERASSE - PITCH

1 - 2
52

3
96

Art. 661HQ

Rialzo semplice in alluminio per piastra cambio rapido

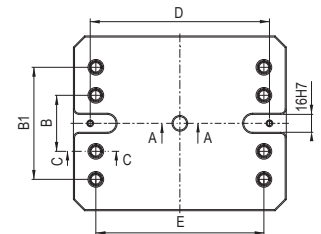
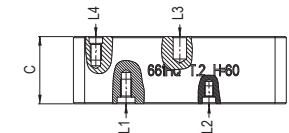
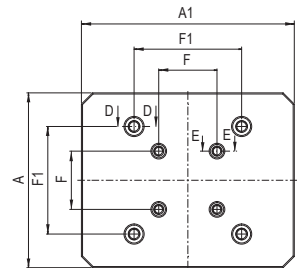


Art. 660

Rialzo **TOP**
 TOP riser
 Art. 661HQ

Simple aluminum riser for quick change table

A	116	156		
A1	150	150		
B	50	50		
B1	-	100		
C	60	100	60	100
D	120	160		
E	100	150		
F	52	-		
F1	96	96		
L1	Ø16 H7 / M10	Ø16 H7 / M10		
L2	Ø12 H7 / M8	Ø12 H7 / M8		
L3	Ø12 H7	Ø12 H7		
L4	Ø12 H7 / M10	Ø12 H7 / M10		
kg	-	-		
Cod.	9.66.1HQ52/060	9.66.1HQ52/100	9.66.1HQ96/060	9.66.1HQ96/100
€	580	696	812	927



Kit di fissaggio e allineamento rialzo **non incluso** / Riser fixing and alignment kit **not included**

Tipo - Type

1

2

Art. 660B

Tiranti per piastra cambio rapido

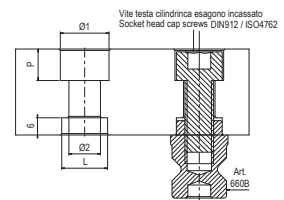
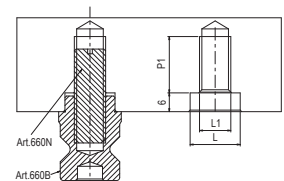


Tipo - Type 1

Tipo - Type 2

Quick change table pull studs

L	Ø12 h7	Ø16 h7
L1	M8	M10
Ø1	14	17
Ø2	9	11
P	9	11
P1	12	18
Cod.	9.66.0B100	9.66.0B200
€	31	33



SUPPORTO PIRAMIDALE PER MULTITASKING & COMPACT GRIP

PYRAMIDAL SUPPORT FOR MULTITASKING & COMPACT GRIP

Tipo (grandezza) / Type (size)
PIANO INCLINATO - GRADE SIDE

1
30°

Ideali per Centri a 4 Assi
 Ideal for 4th Axis Centres

Art. 643H

Supporto piramidale in alluminio a tripla posizione. Possibilità di montaggio tramite Zero Point e piastre a cambio rapido

Aluminum pyramidal support with 3 positions Mounting possibility through Zero Point system and quick change plates



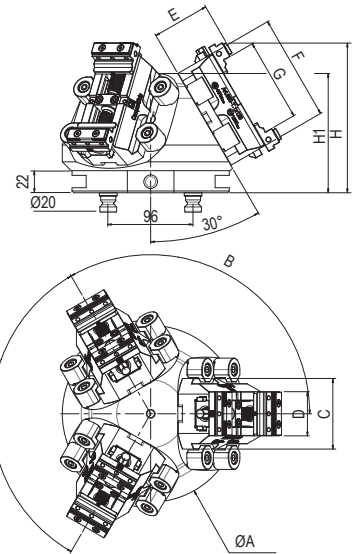
Dotazione standard

- 1 Golfare
- 12 Staffe di ancoraggio Art.298 CGR
- 4 tiranti Art.660B T2

Standard equipment:

- 1 Eyebolt ■ 12 Vise holding clamps Art.298 CGR with M8 screws
- 4 pull studs Art.660B T2

Multitasking	-
Compact Grip	Art.650 T.1x80/120
ØA	200
B	120°
C	80
D	50
E	65
F	120
G	94
H	169,4
H1	135
kg	6,8
Cod.	7.64.3H100
€	1.816



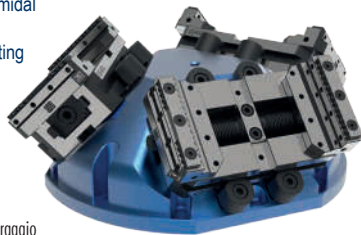
Tipo (grandezza) / Type (size)
PIANO INCLINATO - GRADE SIDE

2
45°

Art. 643H

Supporto piramidale in alluminio a tripla posizione. Possibilità di montaggio tramite Zero Point

Aluminum pyramidal support with 3 positions Mounting possibility through Zero Point system



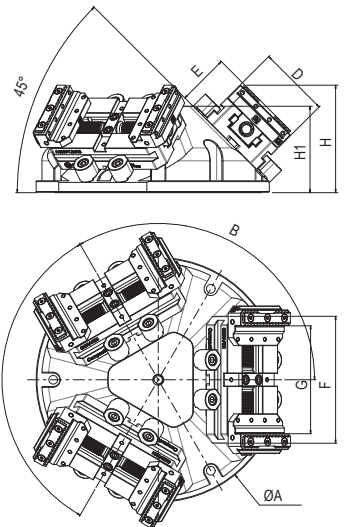
Dotazione standard

- 1 Golfare
- 12 Staffe di ancoraggio Art.298 CGR
- 1 Perno di centraggio ■ Coppia di tasselli Art.297

Standard equipment:

- 1 Eyebolt ■ 12 Vise holding clamps Art.298 CGR with M8 screws
- 1 Centering pin ■ Pair ok keynuts Art.287

Multitasking	Art.640 - T.1
Compact Grip	Art.650 T.2x120/160/200 - Art.950 T.2x120/160/200
ØA	308
B	120°
C	-
D	90
E	65
F	160
G	136
H	135,5
H1	109
kg	11,9
Cod.	7.64.3H200
€	2.157



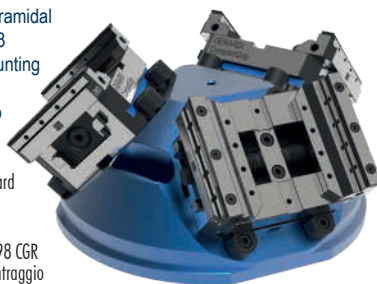
Tipo (grandezza) / Type (size)
PIANO INCLINATO - GRADE SIDE

3
45°

Art. 643H

Supporto piramidale in alluminio a tripla posizione. Possibilità di montaggio tramite Zero Point

Aluminum pyramidal support with 3 positions Mounting possibility through Zero Point system



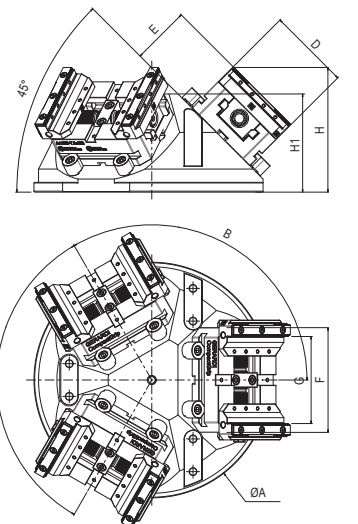
Dotazione standard

- 1 Golfare
- 12 Staffe di ancoraggio Art.298 CGR
- 1 Perno di centraggio
- Coppia di tasselli Art.297

Standard equipment:

- 1 Eyebolt ■ 12 Vise holding clamps Art.298 CGR with M8 screws
- 1 Centering pin ■ Pair ok keynuts Art.287

Multitasking	-
Compact Grip	Art.650 T.3x160/210 - Art.950 T.3x160/210
ØA	360
B	120°
C	-
D	125
E	89
F	160
G	133
H	190,5
H1	150
kg	20,8
Cod.	7.64.3H300
€	2.384



Disponibili altre configurazioni, angolazioni e dimensioni
 Available also others arrangements, dimension and angles

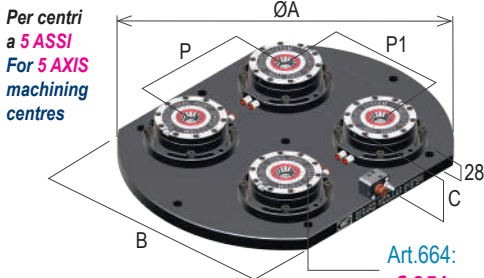
N.B: Richiedere scheda tecnica per maggiori informazioni - Technical data sheet on request

PIASTRE BASE ZERO POINT TONDE

ZERO POINT ROUNDED HEAD PLATES

MONTAGGIO CON FLANGIA

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	2 up to 14 kN							
		Hermle C600U		DMG DMU 50 Evo		Mazak Variax 500		Hermule C40U	
		Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
Art. 72P									
ØA		280		500		500		420	
B		-		380		400		-	
C		83		83		83		83	
P		-		200		200		200	
P1		-		200		200		200	
N° Zero Point		1		4		4		4	
kg		19	11	61	37	63	38	65	35
Cod.		9.72. P2800S1	9.72. P2800A1	9.72. P5038S4	9.72. P5038A4	9.72. P5040S4	9.72. P5040A4	9.72. P4200S4	9.72. P4200A4
		1.703	1.703	5.107	5.107	5.107	5.107	5.107	5.107

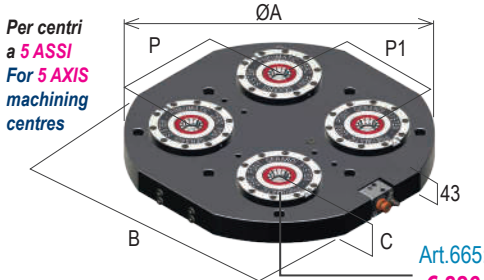


Piastra tonda con Zero Point Art.664 montaggio con flangia
Round head plate with Zero Point Art.664 mounting with flange

Opzione apertura indipendente Zero Point / Zero point independent control option SOVRAPREZZO / EXTRA PRICE: **€ 284 Cad. / Each**

MONTAGGIO INCASSATO

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	2 up to 14 kN							
		Hermle C600U		DMG DMU 50 Evo		Mazak Variax 500		Hermule C40U	
		Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
Art. 82P									
ØA		280		500		500		420	
B		-		380		400		-	
C		58		58		58		58	
P		-		200 / 250		200 / 250		200	
P1		-		200		200 / 250		200	
N° Zero Point		1		4		4		4	
kg		30	17	67	29	69	31	56	26
Cod.		9.82. P2800S1	9.82. P2800A1	9.82. P5038S4	9.82. P5038A4	9.82. P5040S4	9.82. P5040A4	9.82. P4200S4	9.82. P4200A4
		* € 1.703	1.703	5.062	5.062	5.085	5.085	5.107	5.107



Piastra tonda con Zero Point Art.665 montaggio incassato
Round head plate with Zero Point Art.665 built-in mounting

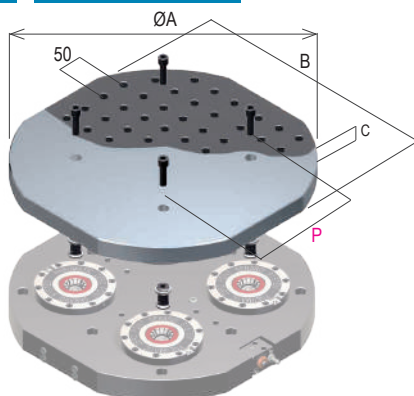
Opzione apertura indipendente Zero Point / Zero point independent control option SOVRAPREZZO / EXTRA PRICE: **€ 284 Cad. / Each**

PIASTRA BASE ROTONDA LISCIA E A RETICOLO - SQUARE SMOOTH AND GRID ROUNDED PLATES

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	2 up to 14 kN							
		Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
Art. 62iC									
ØA		400		500		630		800	
B		-		400		500		630	
C		38		38		38		38	
P		200		250		300		300	
kg		41	15	59	21	92	33	149	54
Art.62iC Cod.		9.62. IC4032S4	9.62. IC4032A4	9.62. IC4050S4	9.62. IC4060A4	9.62. IC4070S4	9.62. IC4070A4	9.62. IC4080S4	9.62. IC4080A4
		€ 1.228	1.192	1.402	1.362	1.636	1.590	2.104	2.043
Art.62iE Cod.		9.62. IE4032S4	9.62. IE4032A4	9.62. IE4050S4	9.62. IE4060A4	9.62. IE4070S4	9.62. IE4070A4	9.62. IE4080S4	9.62. IE4080A4
		€ 1.505	1.505	1.921	1.921	2.569	2.569	3.726	3.726

Piastra base tonda liscia (Art.62iC) o a reticolo (Art.62iE) con tiranti femmina Art.10A - 10B per cambio rapido Zero Point

Smooth round interfaced plate (Art.62iC) or grid (Art.62iE) with female pull-studs Art.10A - 10B for ZERO POINT quick change



FLANGE MOUNTING
2
 up to 14 kN

DMG DMU 50		Haas UMC 750		Mazak Variax 630		DMG DMU 70 Evo		DMG DMC 635V		DMG DMC 1035V		DMG DMU 80P	
Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
630		630		630		700		790		1000		900	
500		500		500		500		560		560		630	
83		83		83		83		83		83		83	
200 / 250 / 300		200 / 250 / 300		200 / 250 / 300		200 / 300 / 400		200 / 250		200 / 300 / 350		200 / 250	
200 / 250 / 300		200 / 250 / 300		200 / 250 / 300		200 / 300		200 / 250 / 300		200 / 300 / 400		200 / 300 / 400	
4		4		4		4		6		8		6	
85	46	85	46	85	46	94	49	124	68	151	78	149	76
9.72. P6350S4	9.72. P6350A4	9.72. P6350S4	9.72. P6350A4	9.72. P6350S4	9.72. P6350A4	9.72. P7050S4	9.72. P7050A4	9.72. P7956S6	9.72. P7956A6	9.72. P1056S8	9.72. P1056A8	9.72. P9063S6	9.72. P9063A6
5.447	5.447	5.447	5.447	5.447	5.447	5.516	5.516	7.808	7.808	10.282	10.282	8.262	8.262

BUILT-IN MOUNTING
2
 up to 14 kN

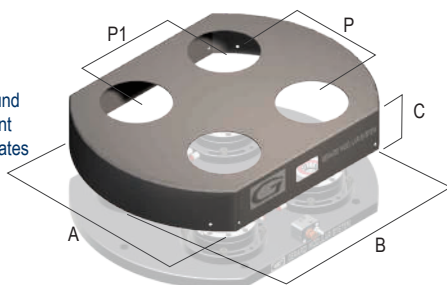
DMG DMU 50		Haas UMC 750		Mazak Variax 630		DMG DMU 70 Evo		DMG DMC 635V		DMG DMC 1035V		DMG DMU 80P	
Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
630		630		630		700		790		1000		900	
500		500		500		500		560		560		630	
58		58		58		58		58		58		58	
200 / 250 / 300		200 / 250 / 300		200 / 250 / 300		200 / 300 / 400		200 / 250		200 / 250 / 350		200 / 250 / 300	
200 / 250 / 300		200 / 250 / 300		200 / 250 / 300		200 / 250 / 300		200 / 300 / 400		200 / 300 / 400		200 / 300 / 400	
4		4		4		4		6		8		6	
103	43	103	43	103	43	116	48	149	63	197	83	188	87
9.82. P6350S4	9.82. P6350A4	9.82. P6350S4	9.82. P6350A4	9.82. P6350S4	9.82. P6350A4	9.82. P7050S4	9.82. P7050A4	9.82. P7956S6	9.82. P7956A6	9.82. P1056S8	9.82. P1056A8	9.82. P9063S6	9.82. P9063A6
5.674	5.674	5.674	5.674	5.674	5.674	5.867	5.867	8.329	8.329	10.622	10.622	9.010	9.010

CARTER PER PIASTRE TONDE - ROUNDED PLATES COVER
Tipo (grandezza) Zero-Point
 Zero-Point type (size)

kN
2
 up to 14

Art. 72CP

 Carter in acciaio INOX
 per piastre tonde
 interfacciate con
 Zero Point

 Stainless steel round
 cover for Zero Point
 interfaced head plates


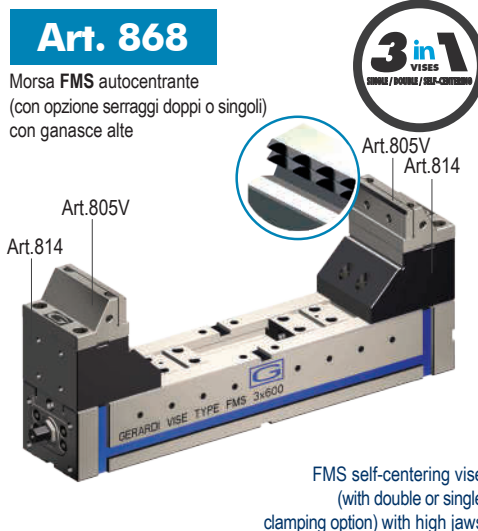
	Steel	Steel	Steel	Steel
ØA	420	500	630	790
B	-	400	500	560
C	78	78	78	78
P	200	250	300	300
P1	200	250	300	300
kg			-	-

Cod. 9.72.CP42424 9.72.CP50404 9.72.CP63504 9.72.CP79566

€	103	123	181	246
---	------------	------------	------------	------------

Tipo (grandezza) morsa / Vise type (size)	1		2				3	
	25 kN		25 kN				30 kN	
kN								
A	130	230	182	282	382	482	244	344
B	99,5			117			137	
C	70			90			100	
D	232	332	300	400	500	600	400	500
E	249	349	320	420	520	620	425	525
F	169,5			207			237	
G	75			95			125	
H	75			85			98	
L	56			64			84	
J3	76	76		101			132	
J4	55	55		63			82	
X	39,5			47			57	
W	74			94			124	
kg	-			-			-	

Cod.	5.86.81200	5.86.81300	5.86.82300	5.86.82400	5.86.82500	5.86.82600	5.86.83400	5.86.83500
€	1.935	2.065	2.233	2.113	2.578	2.757	2.793	2.590



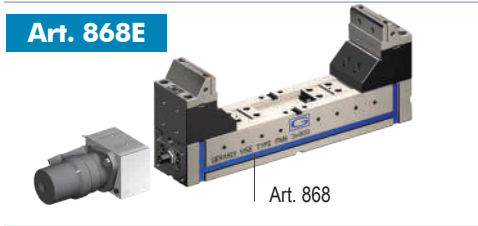
(Art. 868 + 802) Morsa + moltiplicatore di coppia / Vise + torque multiplier

Cod.	5.86.8D120	5.86.8D130	5.86.8D230	5.86.8D240	5.86.8D250	5.86.8D260	5.86.8D340	5.86.8D350
€	2.912	3.042	3.209	3.090	3.555	3.733	3.830	3.626



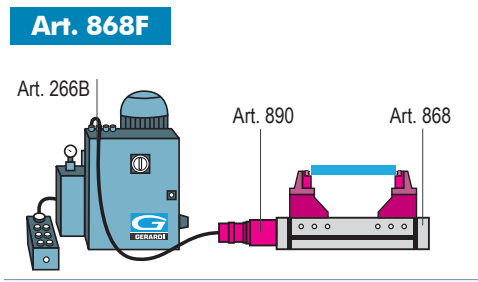
Moltiplicatore di coppia con rinvio angolare - Mechanical with torque multiplier with angular transmission
 Chiave dinamometrica Art.357 (Consigliata) - Torque wrench Art.357 (Suggested)

Cod.	5.80.21000	5.80.22000	5.80.23000
€	1.029	1.029	1.083



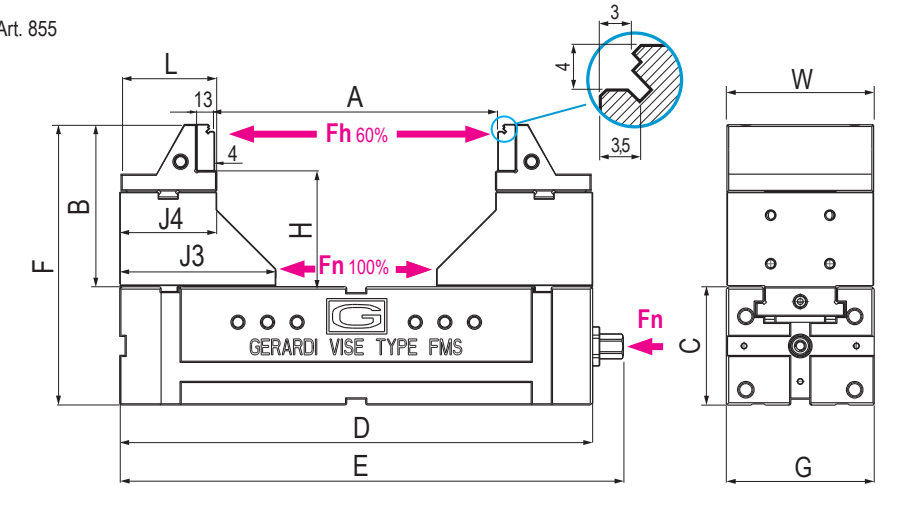
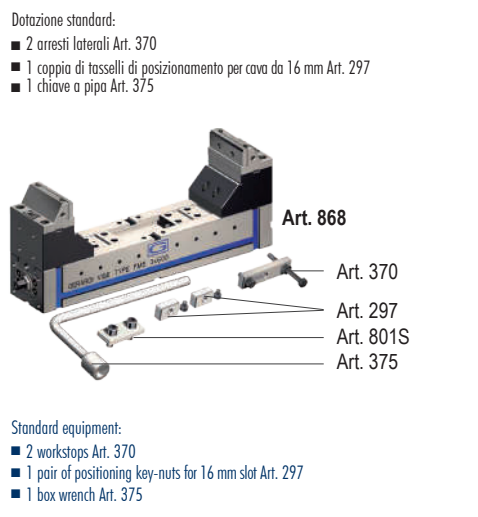
(Art. 868 + 890) Morsa + motore idraulico / Vise + hydraulic motor

Cod.	5.86.8E120	5.86.8E130	5.86.8E230	5.86.8E240	5.86.8E250	5.86.8E260	5.86.8E340	5.86.8E350
€	3.126	3.257	3.437	3.317	3.770	3.948	4.438	4.235



(Art. 868 + 890 + 266B) Morsa + motore idraulico + centralina / Vise + hydraulic motor + power unit

Cod.	5.86.8F120	5.86.8F130	5.86.8F230	5.86.8F240	5.86.8F250	5.86.8F260	5.86.8F340	5.86.8F350
€	11.088	11.219	11.423	11.293	11.757	11.936	12.436	12.233



	3 30 kN			4 30 kN				5 32 kN			6 32 kN		
A	444	544	644	316	416	516	616	396	496	596	596	696	796
B		137				171			186			246	
C		100				120			140			160	
D	600	700	800	500	600	700	800	600	700	800	800	900	1000
E	625	725	825	525	625	725	825	625	725	825	825	925	1025
F		237				291			326			406	
G		125				145			170			190	
H		98				128			138			180	
L		84				97			107			107	
J3		132				154			169			189	
J4		82				96			106			106	
X		57				64			66			86	
W		124				144			169			189	
kg		-				-			-			-	

Cod.	5.86.83600	5.86.83700	5.86.83800	5.86.84500	5.86.84600	5.86.84700	5.86.84800	5.86.85600	5.86.85700	5.86.85800	5.86.86800	5.86.86900	5.86.86100
€	3.246	3.495	3.758	3.458	3.328	4.115	4.425	4.175	4.699	5.105	6.034	6.869	7.536

Art. 868D (Art. 868 + 802) Morsa + moltiplicatore di coppia / Vise + torque multiplier

Cod.	5.86.8D360	5.86.8D370	5.86.8D380	5.86.8D450	5.86.8D460	5.86.8D470	5.86.8D480	5.86.8D560	5.86.8D570	5.86.8D580	5.86.8D680	5.86.8D690	5.86.8D610
€	4.271	4.531	4.794	4.723	4.592	5.378	5.690	5.556	6.069	6.475	7.405	8.240	8.907

Art. 802 Moltiplicatore di coppia con rinvio angolare - Mechanical with torque multiplier with angular transmission

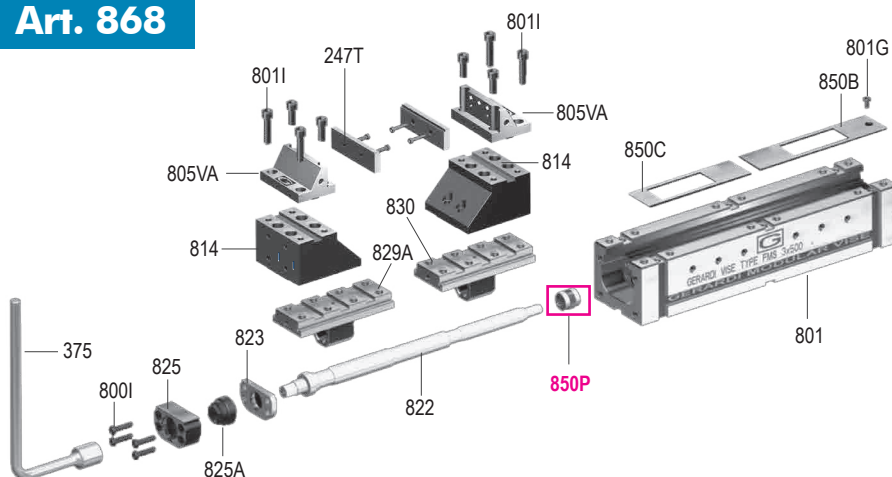
Cod.	5.80.23000	5.80.24000	5.80.25000	5.80.26000
€	1.083	1.330	1.452	1.442

Art. 868E (Art. 868 + 890) Morsa + motore idraulico / Vise + hydraulic motor

Cod.	5.86.8E360	5.86.8E370	5.86.8E380	5.86.8E450	5.86.8E460	5.86.8E470	5.86.8E480	5.86.8E560	5.86.8E570	5.86.8E580	5.86.8E680	5.86.8E690	5.86.8E610
€	4.890	5.140	5.403	5.128	4.998	5.783	6.095	6.058	6.582	6.976	7.942	8.776	9.445

Art. 868F (Art. 868 + 890 + 266B) Morsa + motore idraulico + centralina / Vise + hydraulic motor + power unit

Cod.	5.86.8F360	5.86.8F370	5.86.8F380	5.86.8F450	5.86.8F460	5.86.8F470	5.86.8F480	5.86.8F560	5.86.8F570	5.86.8F580	5.86.8F680	5.86.8F690	5.86.8F610
€	12.875	13.139	13.402	13.163	12.388	13.818	14.130	14.320	14.844	15.249	16.274	17.109	17.777

Art. 868


Art.	Pag.	Art.	Pag.
375	4.35	830	5.52
800I	5.61	850B	5.61
801	5.50	850C	5.61
801G	5.61	850P	5.72
801I	5.61	814	5.56
810J	5.56	805VA	5.35
822	5.53	247T	5.35
823	5.59	-	-
825	5.59	-	-
825A	5.61	-	-
829A	5.52	-	-

Tipo (grandezza) morsa / Vise type (size)
kN
4x270
kN 41
4x420
Art. 685

 Morsa MaxiGrip - 3 Serraggi in 1
Autocentrante, doppia e singola

 MaxiGrip vise - 3 clamping in 1
Self-Centering, Double and Single

A	200	344
A1	83	155
A2	104	248
A3	35	107
W	158	
E	270	420
kg	28,5	40
Cod.	76854270	76854420
€	2.920	3.870

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !
Art. 660

 Interasse / Type **96 mm**

 Tavola Quick change
 Quick change table


Cod. 9.66.09600

 € **1.133**

Vedi gamma completa - See the complete range Page 7.34 / 7.35

Art. 683K

 Ganascia fissa centrale (viti incluse)
 Intermedie fixed jaw (screws included)


Cod. 7683K400/G01

 € **350**
Art. 682K

 Ganascia Mobile (inserti e viti incluse)
 Movable Jaw (inserts and screws included)


Cod. 7682K400/G01

 € **250**
Art. 220

 Inserto Grip
 Top jaw insert


Cod. 4.22.01000/G01

 € **19**

Vedi gamma completa - See the complete range Page 4.17

Art. 680U

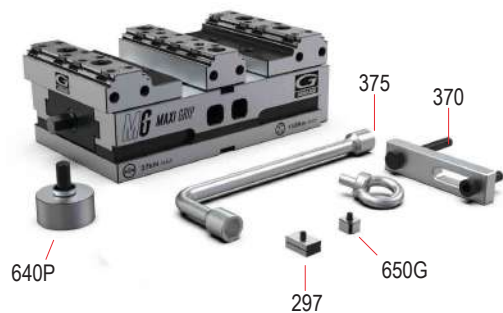
 Piastra laterale per serraggio singolo (viti extra)
 Side plate for single clamping (screws not included)


Cod. 7680U4000

 € **120**

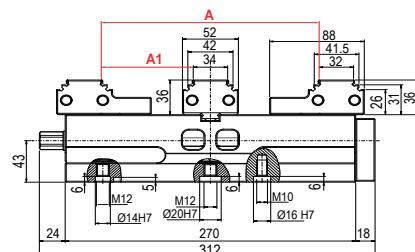
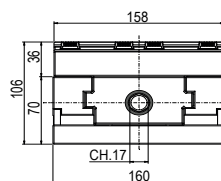
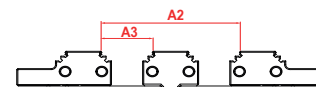
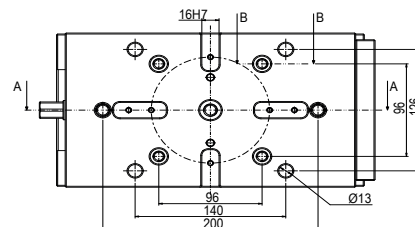
Dotazione standard:

- 1 chiave a pipa Art.375 CH.17 ■ 2 Arresti laterali Art.370 T.3
- 1 coppia di tasselli per regolazione autocentrante Art. 297
- 2 tasselli di posizionamento Art.650G cava a T 16mm
- 1 perno calibrato per centraggio Art.640P Ø50 ■ 2 golfari



Standard equipment:

- 1 box wrench Art.375 CH.17 ■ 2 workstops Art.370 T.3
- 1 pair of self-centring key-nuts Art. 297
- 2 positioning key-nuts Art.650G T slot 16 mm
- 1 calibrated centering pin Art.640P Ø50 ■ 2 eyebolts



Tipo (grandezza) morsa / Vise type (size)	kN	4x270	4x420
Art. 684			
Morsa MaxiGrip Solo Autocentrante			
	A	200	344
	A1	-	-
	A2	104	248
	A3	-	-
	W	158	
	E	270	420
	kg	25	36
	Cod.	76844270	76844420
	€	2.500	3.450

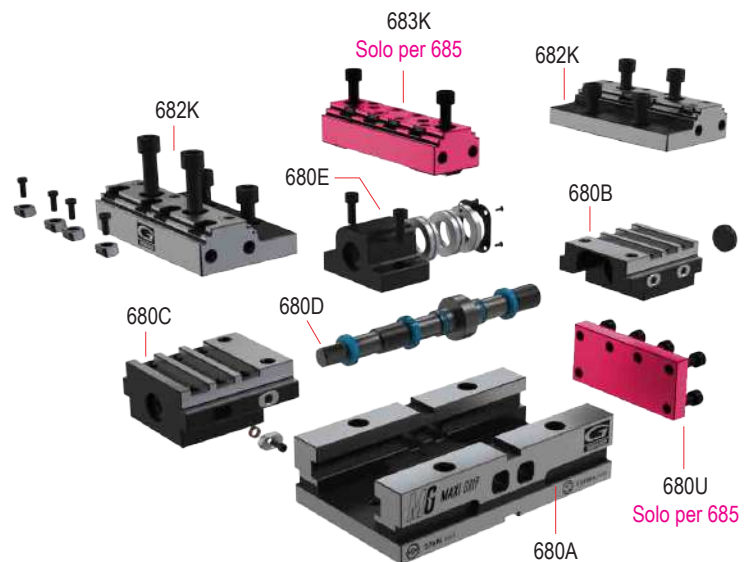
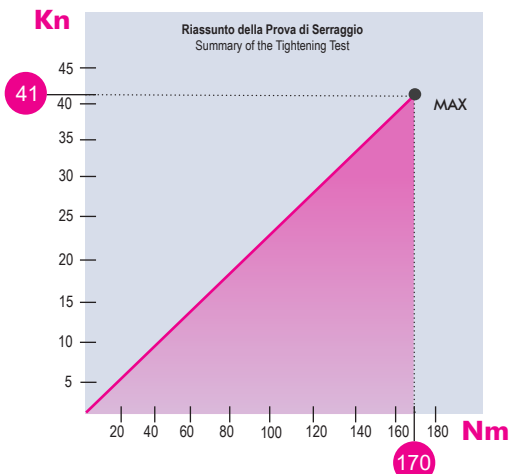

 MaxiGrip vise
 Only Self-centering

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art. 660			
Interasse / Type 96 mm			
Tavola Quick change Quick change table			
	Cod.	9.66.09600	
	€	1.133	
	Vedi gamma completa - See the complete range Page 7.34 / 7.35		
Art. 683K			
Ganascia fissa centrale (viti incluse) Intermedie fixed jaw (screws included)			
	Cod.	7683K400/G01	
	€	350	
Art. 682K			
Ganascia Mobile (inserti inclusi) Movable Jaw (inserts included)			
	Cod.	7682K400/G01	
	€	250	
Art. 220			
Inserto Grip Top jaw insert			
	Cod.	4.22.01000/G01	
	€	19	
	Vedi gamma completa - See the complete range Page 4.17		
Art. 680U			
Piatra laterale per serraggio singolo (viti extra) Side plate for single clamping (screws not included)			
	Cod.	7680U400	
	€	120	

Grafico Test

Art. 685-684 T4x270-420



RIALZI IN ALLUMINIO PER MORSE MAXI GRIP

ALUMINUM RISERS FOR MAXI GRIP VISES

Tipo (grandezza) rialzo Riser (type) size	4x270			
Art. 680H	A	270		
Rialzo semplice, compatibile con il sistema Zero Point Simple riser Zero Point ready	B	160		
	B1	229		
	C	50	75	100
	ØD	314		
	E	200		
	ØJ	231		
	ØJ1	-		
	L	96		
	M	200		
	Kg	6,6	9,5	13
	Cod.	7.68.0H4270/050	7.68.0H4270/075	7.68.0H4270/100
€	1.050	1.110	1.170	


 Kit di fissaggio e allineamento rialzo **non incluso** / Riser fixing and alignment kit **not included**

Tipo (grandezza) rialzo Riser (type) size	4x420			
Art. 680H	A	420		
Rialzo semplice, compatibile con il sistema Zero Point Simple riser Zero Point ready	B	160		
	B1	229		
	C	50	75	100
	ØD	450		
	E	200		
	E1	250		
	E2	300		
	ØJ	231		
	ØJ1	400		
	L	96		
	M	200		
Kg	11	16	20	
Cod.	7.680.H4420/050	7.68.0H4420/075	7.68.0H4420/100	
€	1.450	1.510	1.570	


 Kit di fissaggio e allineamento rialzo **non incluso** / Riser fixing and alignment kit **not included**

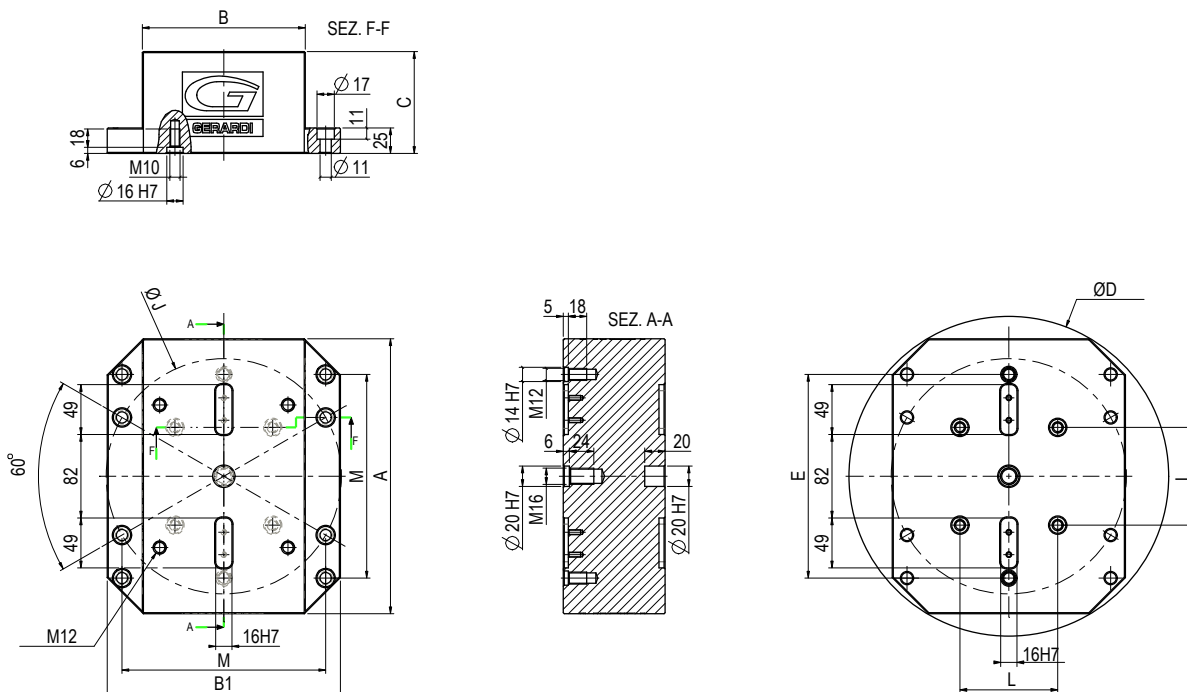
RIALZI IN ALLUMINIO PER MORSE MAXI GRIP

ALUMINUM RISERS FOR MAXI GRIP VISES

Tipo (grandezza)
Riser (type) size

4x270

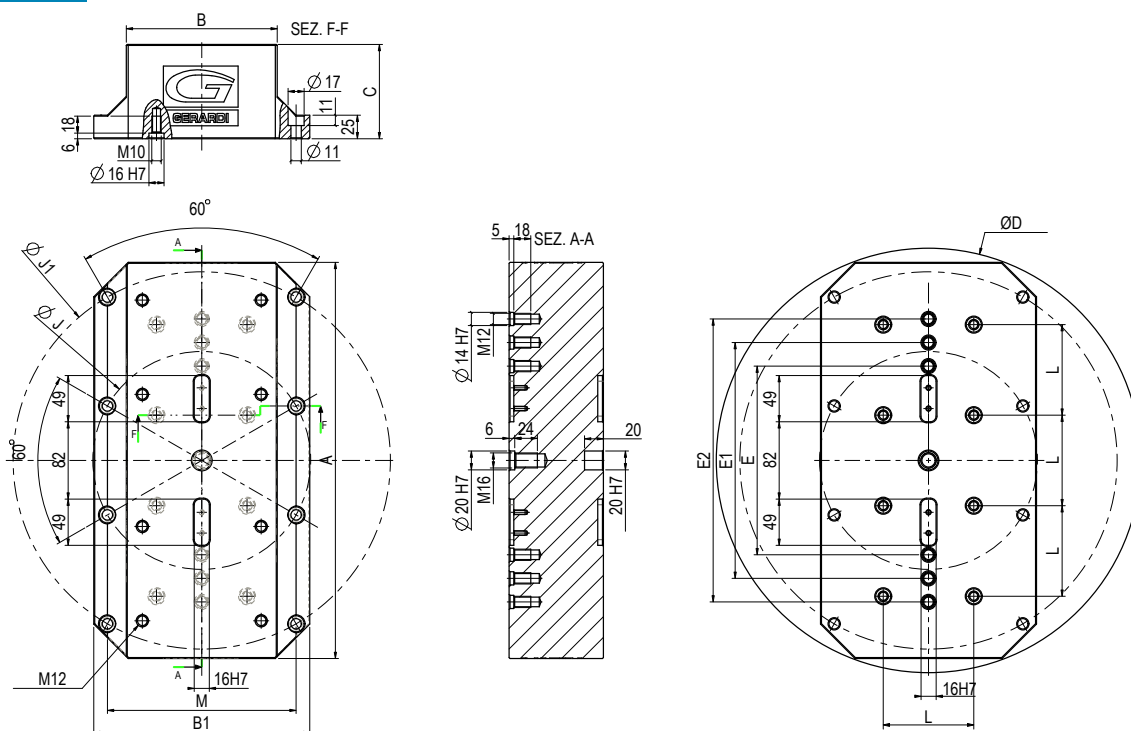
Art. 680H



Tipo (grandezza)
Riser (type) size

4x420

Art. 680H



Automatic Vises

GRIPMATIC

Morse Automatiche per centri di lavoro automatizzati

Automatic vises system for automatic machine centre



Precisione / Accuracy
 $\pm 0,02\text{mm}$



Durezza / Hardened
HRC 58 \pm 2

Caratteristiche e Vantaggi:

Features and Advantages:

- ✓ USURA INESISTENTE
- ✓ RAPIDITÀ DEI SERRAGGI
- ✓ PNEUMATICA O IDRAULICA
- ✓ UTILIZZO NON PRESIDATO
- ✓ CONTROLLABILE DA CNC
- ✓ CARICO E SCARICO TRAMITE ROBOT
- ✓ PRECISIONI $\pm 0,02\text{mm}$
- ✓ RIGIDITÀ & SICUREZZA
- ✓ DESIGN COMPATTO E MANEGGEVOLEZZA
- ✓ AUTOCENTRANTI
- ✓ NO WEAR
- ✓ QUICK CLAMPING
- ✓ PNEUMATIC OR HYDRAULIC
- ✓ UNATTENDED USE POSSIBLE
- ✓ CNC MANAGEABLE
- ✓ WORKPIECE LOAD & DOWNLOAD BY ROBOT
- ✓ HIGHEST ACCURACIES $\pm 0,02\text{mm}$
- ✓ RIGIDITY & SAFETY
- ✓ COMPACT DESIGN & HANDLING
- ✓ SELF-CENTERING



Totamente Automatica Fully Automatic

Predisposizione per la completa gestione tramite CNC, automatizzando i processi di serraggio e incrementando così la produttività della vostra officina. Utilizzo non presidiato, Comandabile dal CNC, Ideale per carico e scarico tramite robot

Configured for the complete handling by CNC, to automate the clamping process and increasing the productivity of your company. Unattended use possible, CNC manageable, ideal for automatic workpiece loading by robot.

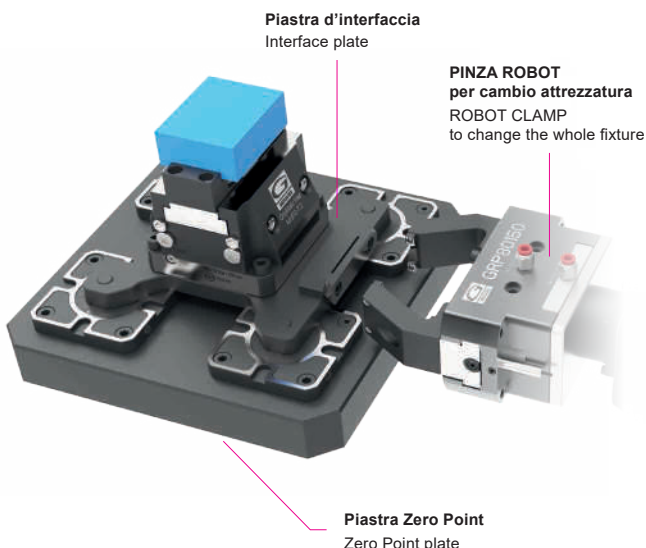


PNEUMATICA A DOPPIO EFFETTO O IDRAULICA
 PNEUMATIC DOUBLE EFFECT OR HYDRAULIC



Forza di Serraggio Clamping Force

Art.670	PN	ID
T.2	7 kN	19 kN
T.3	14,4 kN	37,5 kN
T.4	16,9 kN	47 kN



Zero Point Ready Zero Point Ready

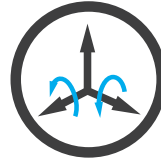
Predisposizione per il posizionamento rapido e preciso della morsa GripMatic tramite piastra Zero Point (anche in automatico).

Set-up for the quick and safe positioning of the GripMatic vise through Zero Point plate (also automatic).



Il funzionamento pneumatico o idraulico delle morse GRIPMATIC, grazie ad un pistone a doppio effetto garantisce una completa gestione in automatico delle morse. La notevole modularità permette inoltre di utilizzarle su qualunque tipologia di macchina e grazie alla predisposizione e la completa gestione tramite CNC, si ha la possibilità di automatizzare i processi di serraggio incrementando così la produttività della vostra officina.

The pneumatic or hydraulic activation of GRIPMATIC vises is made through a double effect piston that grants the complete managing of the vise. One of the main features is modularity that allows this kind of vise to be used on any type of machine and, thanks to its configuration and complete handling by CNC, it is also possible to automate the clamping process so increasing the productivity of your company.



SCAN IT TO WATCH THE



VIDEO PRESENTATION



*Morse Automatiche
Ideali per Centri a 5 Assi
Automatic Vises Ideal for
5 Axis Machining Centres*



Art. 670 PN | ID

GripMatic

Le più automatiche
e autocentranti
The automatic & self-centering



ART. 671A

ART. 671B

ART. 671C



**Piastre e Piastre Ganasce
Jaw and Jaw plates**

Ganasce & Piastre ganasce per morse GripMatic
Jaws & Jaw plates for GripMatic vises

Tipo (grandezza) morsa / Vise (type) size		2	3	4
kN		7	14,4	16,9
Art. 670PN	Stroke Art.671A/B	A	8,5 / 10,5	12 / 13,1
		A1	130,2	162
		B	30	35
		C	105	130
		D	166	206
		E	78	95
		G	12	16
		H	140	170
		W	99	124
		kg	16,1	31,1
Cod.		7.67.0PN20	7.67.0PN30	7.67.0PN40
€		1.790	2.387	3.162

Modulo base morsa autocentrante **pneumatica** MAX 10 BAR



Self-centering vise base module **pneumatic** MAX 10 BAR

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

Art. 671A	Ganascia lavorabile Soft jaw		Cod.			
			7.67.1A200	7.67.1A300	7.67.1A400	
			€	169	228	301

Art. 671B	Ganascia lavorabile ridotta Soft narrow jaw		Cod.			
			7.67.1B200	7.67.1B300	7.67.1B400	
			€	193	254	336

Art. 671C	Ganascia predisposta per piastre ganacce standard ridotte Jaw for narrow width standard jaw plates		Cod.			
			7.67.1C200	7.67.1C300	7.67.1C400	
			€	193	254	336

Art. 243	Piastra ganascia piana rigata temprata Hardened grooved straight jaw plate		Cod.			
			1.65.17000	1.65.27000	1.65.37000	
			€	61	66	79

Art. 245	Piastra ganascia piana liscia temprata Hardened smooth straight jaw plate		Cod.			
			4.24.51000	4.24.52000	4.24.53000	
			€	66	73	86

Art. 670G	Piastra piana con inserti GRIP e 1pc Art.414R (parallela magnetica universale) Straight plate with GRIP inserts and 1 pc. Art.414R (universal magnetic parallel)		H			
			18	25	30	
			Cod.	1.24.7G100	1.24.7G200	1.24.7G300
			€	139	150	194

Dotazione standard:

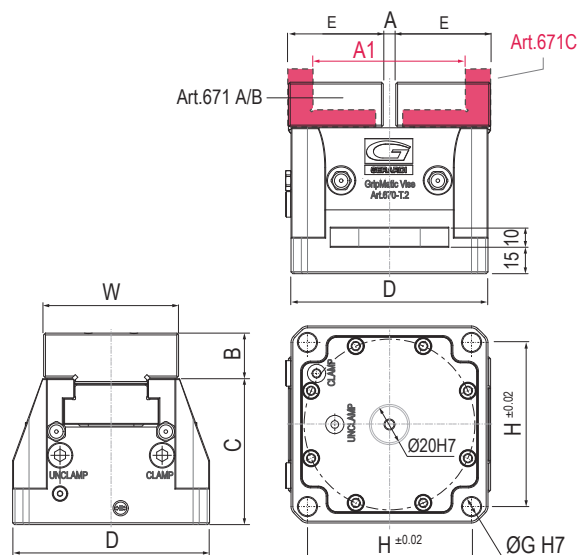
- N°2 viti calibrate a colletto Art.83
- Valvola di non ritorno Art. PN16
- N°2 raccordi cilindrici maschi Art. PN04
- N°2 Guarnizioni OR



Standard equipment:

- N. 2 shoulder screw Art. 83
- No return valve Art. PN16
- N.2 Straight male adaptors Art. PN04
- N.2 Gaskets OR

Art. 670PN



Tipo (grandezza) morsa / Vise (type) size		2		3		4	
		kN		37,5		47	
		19		19		19	
Art. 670ID	Stroke Art.671A/B	A	6,4 / 6,9	8,5 / 10,5	12 / 13,1		
		A1	88,9	130,2	162		
		B	25	30	35		
		C	80	105	130		
		D	108	166	206		
		E	52	78	95		
		G	10	12	16		
		H	90	140	170		
		W	74	99	124		
		kg	5,2	16,1	31,1		
	Cod.		7.67.0ID20	7.67.0ID30	7.67.0ID40		
	€		1.790	2.387	3.162		

Modulo base morsa autocentrante idraulica
MAX 30 BAR* (tipo 4, MAX 25 BAR)
 *Presto disponibili anche 60 o 350 BAR



Self-centering vise
 base module
hydraulic MAX 30 BAR*
 (Type 4, MAX 25 BAR)
 Soon available 60 or 350 BAR

SUGGERITA APERTURA PNEUMATICA
PNEUMATIC OPENING SUGGESTED

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art. 671A	<p>Ganascia lavorabile Soft jaw</p>	Cod.	7.67.1A200	7.67.1A300	7.67.1A400
		€	169	228	301
Art. 671B	<p>Ganascia lavorabile ridotta Soft narrow jaw</p>	Cod.	7.67.1B200	7.67.1B300	7.67.1B400
		€	193	254	336
Art. 671C	<p>Ganascia predisposta per piastre ganasce standard ridotte Jaw for narrow width standard jaw plates</p>	Cod.	7.67.1C200	7.67.1C300	7.67.1C400
		€	193	254	336
Art. 243	<p>Piastra ganascia piana rigata temprata Hardened grooved straight jaw plate</p>	Cod.	1.65.17000	1.65.27000	1.65.37000
		€	61	66	79
Art. 245	<p>Piastra ganascia piana liscia temprata Hardened smooth straight jaw plate</p>	Cod.	4.24.51000	4.24.52000	4.24.53000
		€	66	73	86
Art. 670G	<p>Piastra piana con inserti GRIP e 1pc Art.414R (parallela magnetica universale) Straight plate with GRIP inserts and 1 pc. Art.414R (universal magnetic parallel)</p>	H	18	25	30
		Cod.	1.24.7G400	1.24.7G500	1.24.7G700
		€	139	150	194

Dotazione standard:

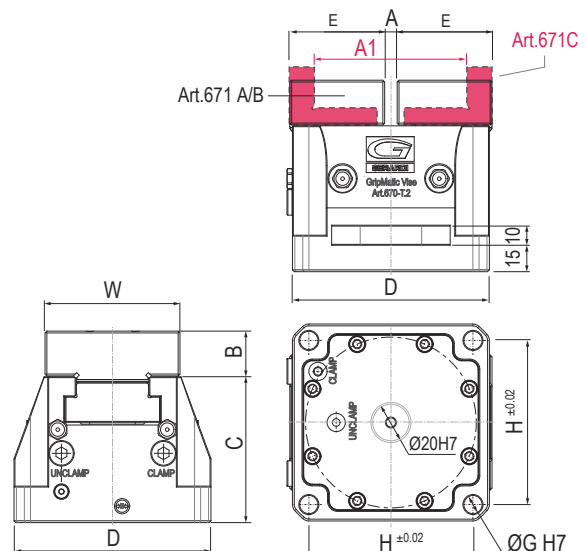
- N°2 viti calibrate a colloetto Art.83
- N°2 Niplon
- N°2 Guarnizioni OR



Standard equipment:

- N.2 shoulder screw Art. 83
- N.2 Niplon
- N.2 Gaskets OR

Art. 670ID



PIASTRE DI INTERFACCIA PER MORSE GRIPMATIC

INTERFACED PLATES FOR GRIPMATIC VISES

Tipo (grandezza) morsa / Vise (type) size		2	3	4
		5,1 - 15	16 - 32	22 - 43
Art.670CP SEMI AUTOMATICA SEMI-AUTOMATIC	A	90	140	170
	B	90	140	170
	C	-	38	-
	D	200	200	200
	E	200	200	200
	F	250	250	250
	G	250	250	250
	Cod.	7.67.0CP20	7.67.0CP30	7.67.0CP40
€	2.271	2.271	2.271	

Piastra di interfaccia per morsa GripMatic Art.670 PN **semiautomatca** con innesto aria tramite attacco rapido e gestione del sistema manuale tramite selettore



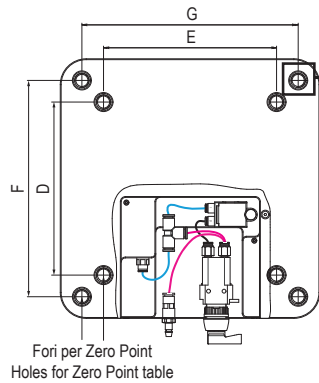
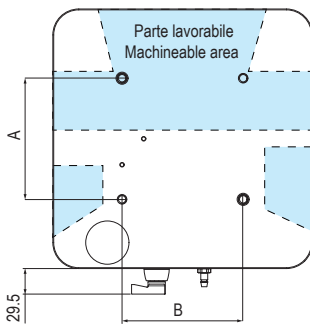
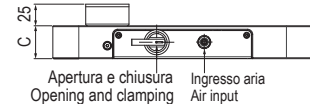
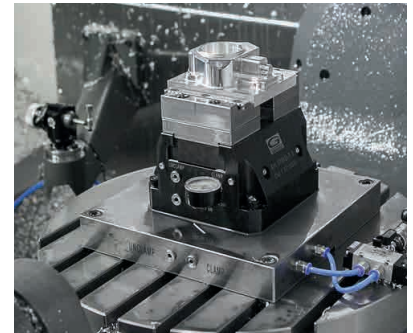
Art.670PN

Interface plate for GripMatic vise Art.670PN **semi-automatic** quick coupling air input and manual system control through a selector.

Art.670CP



Selettore - selector


 Predisposizione Zero Point
Zero Point ready

 Esempio applicativo con azionamento esterno
(Pedale / joystick) su richiesta allo stesso prezzo.
Application example with external activation (pedal / joystick) on request at the same price

7

PIASTRE DI INTERFACCIA PERSONALIZZATE PER MORSE GRIPMATIC

CUSTOMIZED INTERFACED PLATES FOR GRIPMATIC VISES

Tipo (grandezza) morsa / Vise (type) size		2	3	4
		5,1 - 15	16 - 32	22 - 43
Art.670AP AUTOMATICA AUTOMATIC	Cod.	7.67.0AP20	7.67.0AP30	7.67.0AP40
	€	2.497	2.497	2.497

Piastra di interfaccia per morsa GripMatic Art.670PN **automatica** con innesto aria/olio tramite la piastra della macchina e gestibile direttamente dal CNC. Piastra completamente personalizzabile in base alle funzionalità della macchina utensile (comando di presenza pezzo e pulizia)



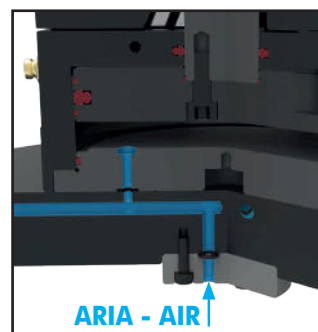
Art.670ID/PN



Art.670AP

Interface plate for GripMatic vise Art.670PN **automatic** with air or oil input through the machine plate and possible to be controlled directly by the CNC. This plate can be fully tailored according the characteristics of the machine (workpiece positioning check and cleanliness)

PIASTRA COMPLETAMENTE PERSONALIZZABILE ! COMPLETE CUSTOMIZABLE PLATE !



Ingresso diretto ARIA - Direct AIR input



Esempio applicativo - Applicative example

CENTRALINE PNEUMOIDRAULICHE PER MORSE GRIPMATIC

PNEUMOHYDRAULIC POWER UNIT FOR GRIPMATIC VISES

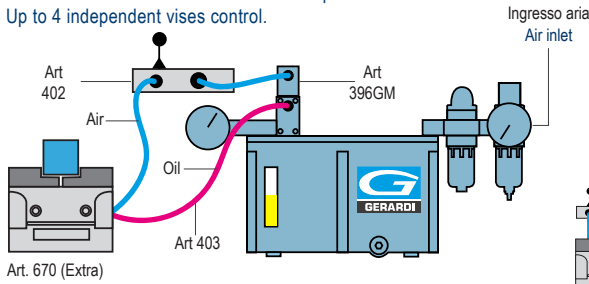
Tipo (grandezza) morsa / Vise (type) size

	2	3	4
kN	5,1 - 15	16 - 32	22 - 43

Art.394 GM

COMANDO PNEUMATICO
PNEUMATIC CONTROL

 Centralina a comando pneumatico remoto. **Pressione max 33bar**
 Con mantenimento e ripristino automatico della pressione desiderata.
 Per il controllo da 1 a 4 morse indipendenti.

 Power unit with remote pneumatic control. **Max pression 33bar**
 Automatic retention and reset of desired pressure.
 Up to 4 independent vises control.


Art. 670 (Extra)

Entrata ARIA 7bar, Uscita OLIO Max 33bar - AIR inlet 7bar, output OIL Max 33bar

1 MORSA / 1 VISES - (1 Art.402 - 1 Art.403 - 1 Art.396GM)	Cod.	7.39.4GM331
€		1.653
2 MORSE / 2 VISES - (2 Art.402 - 2 Art.403 - 2 Art.396GM)	Cod.	7.39.4GM332
€		2.020
3 MORSE / 3 VISES - (3 Art.402 - 3 Art.403 - 3 Art.396GM)	Cod.	7.39.4GM333
€		2.387
4 MORSE / 4 VISES - (4 Art.402 - 4 Art.403 - 4 Art.396GM)	Cod.	7.39.4GM334
€		2.815

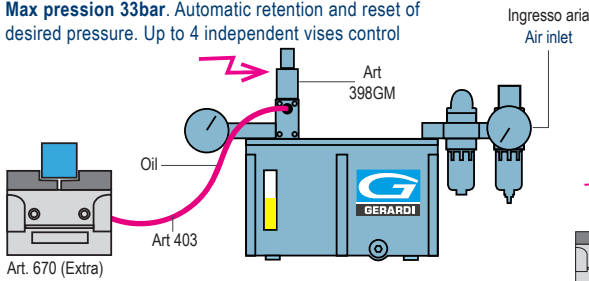
Tipo (grandezza) morsa / Vise (type) size

	2	3	4
kN	5,1 - 15	16 - 32	22 - 43

Art.395 GM

COMANDO ELETTRICO
ELECTRIC CONTROL

 Centralina a comando pneumatico con azionamento elettrico e pressostato. **Pressione max 33bar**
 Con mantenimento e ripristino automatico della pressione desiderata.
 Per il controllo da 1 a 4 morse indipendenti

 Pneumatic power unit with electric control and pressurestat
Max pression 33bar. Automatic retention and reset of desired pressure. Up to 4 independent vises control


Art. 670 (Extra)

Entrata ARIA 7bar, Uscita OLIO Max 33bar - AIR inlet 7bar, output OIL Max 33bar

1 MORSA / 1 VISES - (1 Art.403 - 1 Art.398GM)	Cod.	7.39.5GM331
€		1.898
2 MORSE / 2 VISES - (2 Art.403 - 2 Art.398GM)	Cod.	7.39.5GM332
€		2.510
3 MORSE / 3 VISES - (3 Art.403 - 3 Art.398GM)	Cod.	7.39.5GM333
€		3.121
4 MORSE / 4 VISES - (4 Art.403 - 4 Art.398GM)	Cod.	7.39.5GM334
€		3.733

ACCESSORI E RICAMBI / SPARE PARTS

Art. 403

 Tubo termoplastico completo di attacco rapido Art. 270A (m 1,5)
 Thermoplastic pipe complete with rapid connection Art. 270A (m 1,5)

Cod. 4.40.30000

 € **186**

Per ogni metro extra / For each extra meter: € 31



Art. 402

 Distributore leva angolare, 2 vie
 Angular valve, 2 ways

Cod. 9.40.20000

 € **95**


Art. 400

 Pedale bistabile
 Two positions foot pedal

Cod. 4.40.00000

 € **205**

 Ingresso aria (Ø 8 - 7bar)
 Air inlet (Ø 8 - 7bar)

Art. 396 GM

Blocco modulare per comando pneumatico aggiuntivo per ogni morsa extra

Modular block for pneumatic control for each extra vise



Cod. 4.39.6GM00

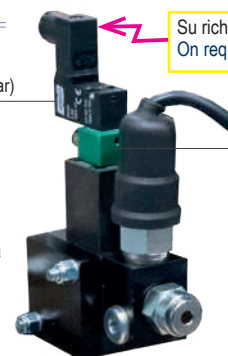
 € **339**

 Ingresso aria (Ø 8 - 7bar)
 Air inlet (Ø 8 - 7bar)

Art. 398 GM

Blocco modulare per comando elettrico (con pressostato) aggiuntivo per ogni morsa extra

Modular block for electric control (with pressurestat) for each extra vise


 Pressostato
 Pressurestat

Cod. 4.39.8GM00

 € **513**

 Su richiesta: 12V / 24V / ...V
 On request: 12V / 24V / ...V

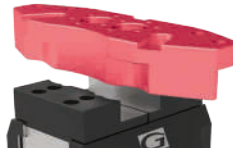
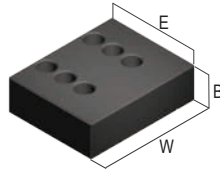
GANASCE & PIASTRE GANASCE PER MORSE MULTITASKING Art.670

JAWS & JAW PLATES FOR MULTITASKING VISES Art.670

Tipo (grandezza) / Type (size)	2	3	4
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Art. 671A*

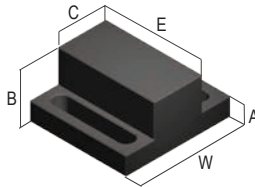
 Ganaschia mobile lavorabile
 Soft movable jaw

 Materiale temprabile 20MnCr5
 Hardenable material 20MnCr5


W	74	99	124
B	25	30	35
E	49	79	96
Cod.	7.67.1A200	7.67.1A300	7.67.1A400
€	169	228	301

Art. 671B*

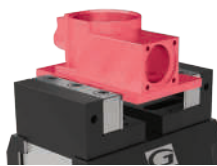
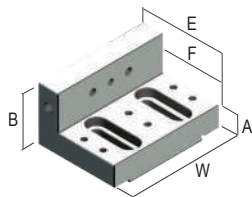
 Ganaschia mobile lavorabile ridotta
 Soft narrow movable jaw

 Materiale temprabile 20MnCr5
 Hardenable material 20MnCr5


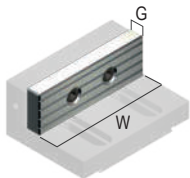
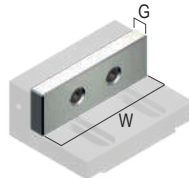
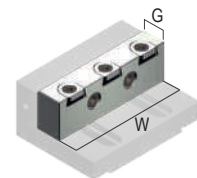
W	40	65	81
A	10	10	15
B	25	30	35
C	15	28	38
E	40	65	81
Cod.	7.67.1B200	7.67.1B300	7.67.1B400
€	193	254	336

Art. 671C*

 Ganaschia mobile predisposta
 per piastre ganasce standard ridotte
 Movable jaw for narrow standard jaw plates

 * Viti per fissaggio a richiesta €11
 Fixing screws on request €11


W	74	94	124
A	13,5	18	18
B	38	48	58
E	45	70	87
F	30	51	62
Cod.	7.67.1C200	7.67.1C300	7.67.1C400
€	193	254	336


Art. 243*

Art. 245*

Art. 247G*

 Piastre ganasce: Art. 243 piana rigata temprata, Art. 245 piana liscia temprata, Art. 247G con inserti GRIP.
 Jaw Plates: Art. 243 Hardened flat grooved jaw plate, Art. 245 hardened flat smooth jaw plate, Art. 247G with GRIP inserts.

* Viti per fissaggio a richiesta €11 - Fixing screws on request €11

Art. 670K

 Parti di ricambio per Morse GripMatic
 Grip Matic Jaws spare parts


Cod.	7.67.0K200	7.67.0K300	7.67.0K400
€	62	73	186

Art. PN16

 Valvola direzionale di non ritorno - 1/8" Gas
 Unidirectional check valve - 1/8" Gas

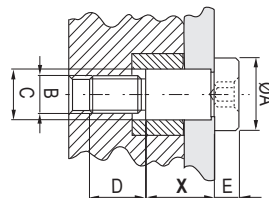

Cod.	9.PN.16000
€	176

Art. PN22

 Raccordo a Y Ø6 - Ø8
 Y adaptor Ø6 - Ø8


Cod.	9.PN.22006/8
€	13

Art. 83

 Vite Calibrata a colletto
 Shoulder calibrated screw


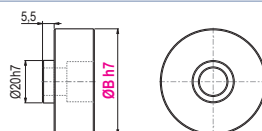
A	16	18	24
B	M8	M10	M12
C	10h7	12h7	16h7
D	15	15	18
E	7	8	11
X	30	40	45
Cod.	8.83.10300	8.83.12400	8.83.16450
€	14	15	16

Art. 670IDL

 Adattatore per innesto diretto
 Direct input adaptor


Cod.	7.67.0IDL20	7.67.0IDL30
€	20	25

Art. 670P

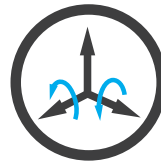
 Perno di centraggio
 Straight pin


ØB	20 - 30 - 38,1 - 50 - 50,8
Cod.	7.67.0P3000
€	28 34 40

Specificare sempre quota B - Specify always B dimension

Clamping system

DOVE TAIL



SCAN IT TO WATCH THE



VIDEO PRESENTATION



Sistema a Coda di Rondine per centri a 5 assi

Irreversible Dove Tail system for 5th axis centres

Il sistema ad incastro irreversibile DOVE TAIL grazie alla sua versatilità e conformazione che garantisce una rigidità estrema consente un'ottimizzazione dei tempi di attrezzaggio e di lavorazione dei particolari

Thanks to its versatility and shape, which guarantees an exceptional rigidity, our Irreversible DOVE TAIL system also ensures an optimisation of set-up and machining times.

Insuperabile per particolari di dimensioni ridotte

Unbeatable to clamp small workpieces



Non Disponibile per
Not Available for

U.S.A

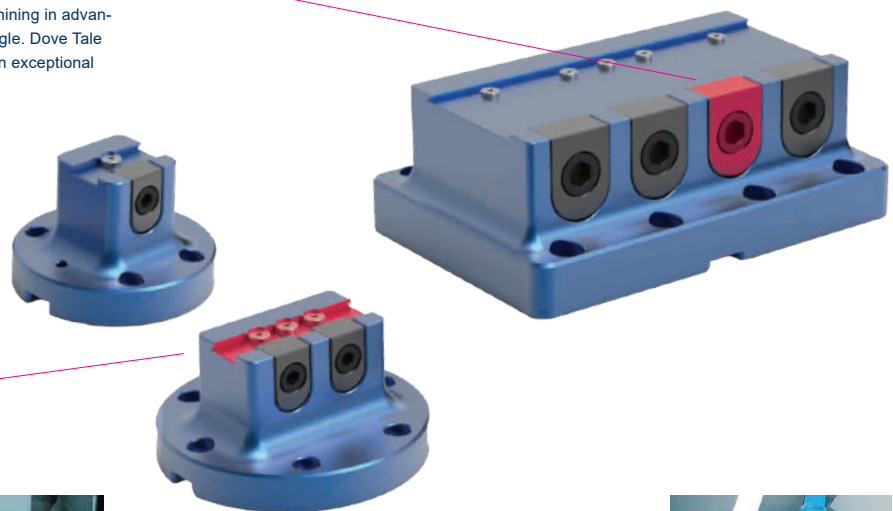
Sistema Irreversibile Irreversible System



Ogni particolare può essere serrato tramite il sistema a Coda di Rondine pre-lavorando la faccia inferiore, creando una sagoma dell'altezza di 3mm e un angolo di 60°. Il sistema a coda di rondine è un sistema ad incastro irreversibile che garantisce un'estrema rigidità della presa pezzo durante tutti i tipi di lavorazione.

Each part can be clamped through Dove Tail system simply machining in advance the lower side, by creating a 3mm high template and a 60° angle. Dove Tail system is an irreversible interlocking system which guarantees an exceptional rigidity of the clamping during all types of machining.

Art. 690



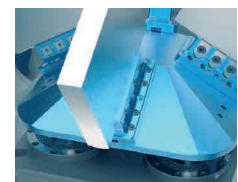
Serraggio ad Incastro Irreversible clamping



Il particolare da lavorare viene serrato mediante il tassello a Coda di Rondine, che sfruttando l'effetto leva generato dalla vite principale assicura un'efficace chiusura ad incastro irreversibile. La molla all'interno permette un rilascio graduale del tassello di bloccaggio.

The workpiece is clamped through a Dovetail nut that exploits the lever effect of the main screw and ensures an effective clamping. The internal spring allows a gradual release of the blocking nut.

Rialzo Piramidale Pyramidal Riser



Il supporto piramidale speciale consente di montare 4 sistemi a coda di rondine contemporaneamente inclinati a 30° incrementando così lo spazio di lavoro e le possibilità di lavorazione e riducendo altresì i tempi morti.

The pyramidal riser allows the simultaneous mounting of 4 Dove tail systems inclined at 30° thus increasing the working space, widening the machining possibilities and also reducing the dead times.

SISTEMA A CODA DI RONDINE DOVE TAIL FIXTURES

Art.690

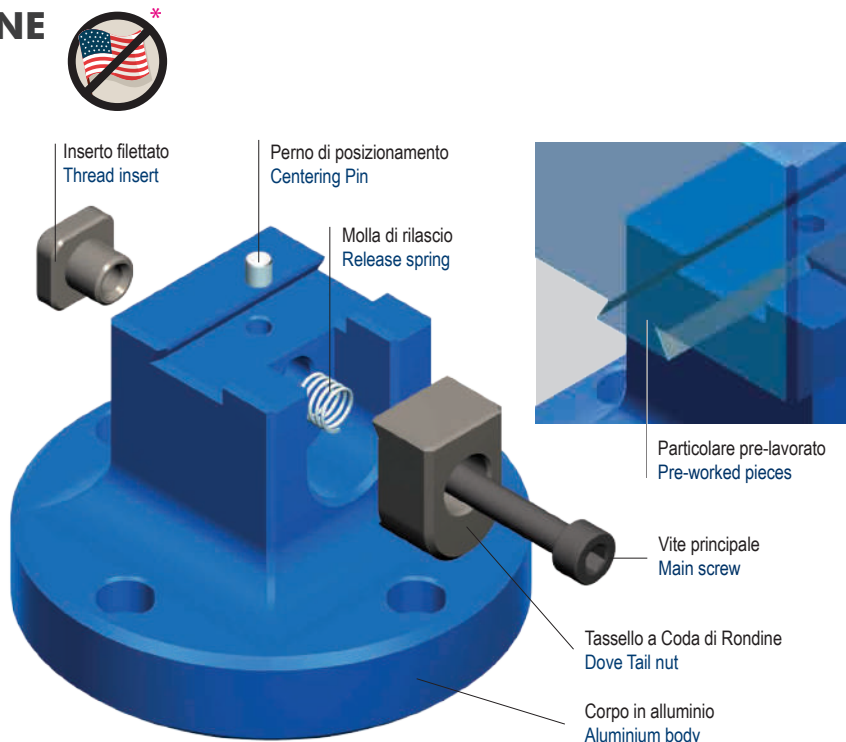
Il sistema a Coda di Rondine è progettato specificatamente per le lavorazioni su centri a 5 assi.

Grazie alla sua versatilità e conformazione offre un'ottimizzazione dei tempi di attrezzaggio e di lavorazione dei particolari.

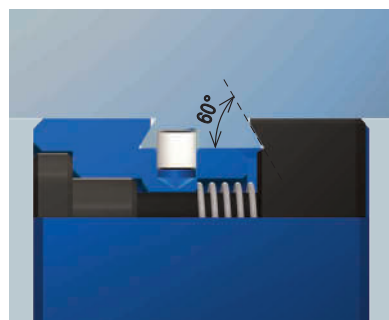
Il sistema Coda di Rondine è compatibile con l'ampia gamma di attrezzature Gerardi, in particolare con il sistema Zero Point e piastre a cambio rapido ed è possibile applicarlo sui più conosciuti centri di lavoro al mondo.

The Dove Tail System is designed specifically for machining on 5 Axis machine centers.

Thanks to its versatility and shape it guarantees the best set up and machining times. The Dove Tail System is obviously compatible with the widest range of Gerardi fixtures in especially with Zero Point systems and with quick change plates and it is possible to use it on the worldwide most popular Machine Centers.



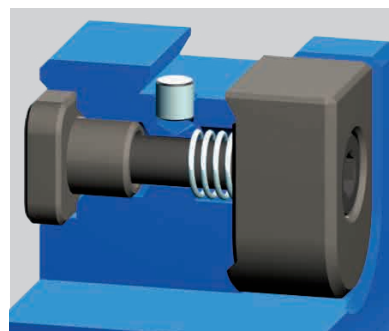
COME SERRARE UN PARTICOLARE CON IL SISTEMA A CODA DI RONDINE HOW TO CLAMP WORKPIECES WITH DOVE TAIL FIXTURE


1

PREDISPOSIZIONE CODA DI RONDINE DOVE TAIL SET-UP

Ogni particolare può essere serrato tramite il sistema Coda di Rondine pre-lavorando la faccia inferiore mediante l'apposita fresa, creando una sagoma dell'altezza di 3mm e un angolo di 60°.

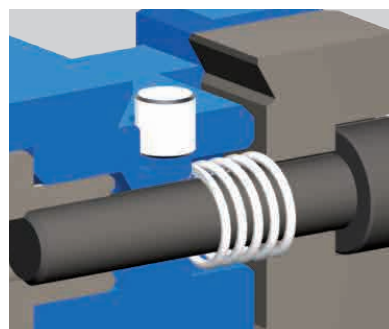
Each workpiece can be clamped on the Dove Tail system machining firstly the lower face through the proper milling cutter in order to create a 3mm height shape with a 60° angle.


2

PERNO DI POSIZIONAMENTO CENTERING PIN

Il perno di posizionamento del sistema Coda di Rondine ha la funzione di assicurare sempre un rapido e perfetto centraggio del particolare da lavorare garantendo la massima ripetibilità.

The positioning pin of the Dove Tail System is for ensuring always a quickest and perfect workpiece centering which will then guarantee the max repeatability.


3

SERRAGGIO & RILASCIO GRADUALE CLAMPING & GRADUAL RELEASE

Il particolare da lavorare viene serrato mediante il tassello a Coda di Rondine, che sfruttando l'effetto leva generato dalla vite principale assicura un'efficace chiusura. La molla all'interno permette un rilascio graduale del tassello di bloccaggio.

The workpiece is clamped through the Dove Tail System which exploiting the leverage created by the main screw ensures a perfect clamping. The internal spring allows a gradual release of the clamping nut.

SISTEMA A CODA DI RONDINE in ALLUMINIO

ALUMINIUM DOVE TAIL FIXTURES

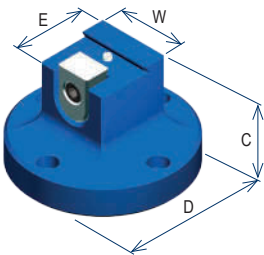
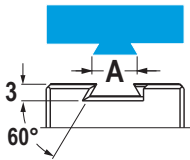


Tipo (grandezza) - (type) size (inch)		1	2	3	4	5	6
Grandezza coda di rondine - Dove tail dimension	A"	0,281"	0,375"	0,5"	0,75"	1,5"	2,25"
Grandezza coda di rondine - Dove tail dimension	A	7,14	9,53	12,7	19,5	38,1	57,15
	C	50	50	50	50	70	70
	D	Ø56	Ø56	Ø76	Ø86	Ø116	88x132
	E	20	22	34	40	70	88
	W	20	22	34	40	50	48
Forma Shape		○	○	○	○	○	□
kg		0,3	0,4	0,9	1,1	3,2	3,6
Cod.		12.690.101	12.690.201	12.690.301	12.690.401	12.690.501	12.690.601
€		777*	777*	807*	807*	807*	807*

Art.690

SINGOLO - SINGLE

Tipo / Type 3

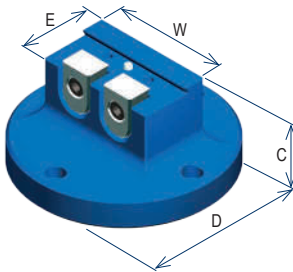
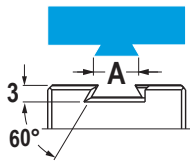

***NON DISPONIBILE PER IL MERCATO AMERICANO - *NOT AVAILABLE FOR U.S. MARKET**

Tipo (grandezza) - (type) size (inch)		1	2	3	4	5	6
Grandezza coda di rondine - Dove tail dimension	A"	0,281"	0,375"	0,5"	0,75"	1,5"	2,25"
Grandezza coda di rondine - Dove tail dimension	A	7,14	9,53	12,7	19,5	38,1	57,15
	C	-	-	50	50	70	70
	D	-	-	Ø98	Ø104	110	110x128
	E	-	-	34	40	70	88
	W	-	-	60	60	90	90
Forma Shape		-	-	○	○	□	□
kg		-	-	1,4	1,6	4,4	5,3
Cod.		-	-	12.690.302	12.690.402	12.690.502	12.690.602
€		-	-	807	807*	807*	1.255*

Art.690

DOPIO - DOUBLE

Tipo / Type 3

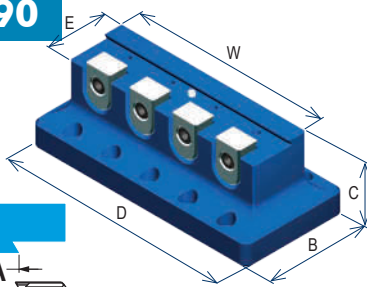
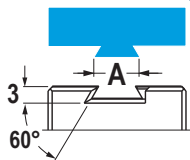

***NON DISPONIBILE PER IL MERCATO AMERICANO - *NOT AVAILABLE FOR U.S. MARKET**

Tipo (grandezza) - (type) size (inch)		1	2	3	4	5	6
Grandezza coda di rondine - Dove tail dimension	A"	0,281"	0,375"	0,5"	0,75"	1,5"	2,25"
Grandezza coda di rondine - Dove tail dimension	A	7,14	9,53	12,7	19,5	38,1	57,15
	B	-	-	64	70	110	128
	C	-	-	50	50	70	70
	D	-	-	140	140	190	190
	E	-	-	34	40	70	88
	W	-	-	120	120	170	170
Forma Shape		-	-	□	□	□	□
kg		-	-	2,1	2,4	7,9	9,6
Cod.		-	-	12.690.304	12.690.404	12.690.504	12.690.604
€		-	-	1.047*	1.940*	1.940*	1.940*

Art.690

MULTIPLIO MULTIPLE

Tipo / Type 3


***NON DISPONIBILE PER IL MERCATO AMERICANO - *NOT AVAILABLE FOR U.S. MARKET**

	1	2	3	4	5	6
Cod.	12.690.G001	12.690.G002	12.690.G003	12.690.G004	12.690.G005	12.690.G006
€	100*	111*	111*	111*	147*	147*

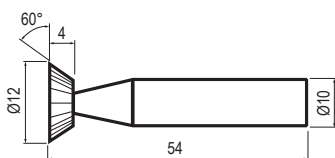
Art.690G

 Gruppo di serraggio completo per sistema a coda di rondine
 Complete clamping kit for Dove tail System

***NON DISPONIBILE PER IL MERCATO AMERICANO - *NOT AVAILABLE FOR U.S. MARKET**

	1	2	3	4	5	6
Cod.	7.69.0DTF10					
€	257					

Art.690DTF

 Utensile fresa per realizzare la base del particolare da bloccare
 Milling tool for working the base of the workpiece to clamp


PREDISPOSIZIONE e MONTAGGIO MORSE su SPALLE LAVORATE

TOMBSTONES SET-UP and VISES MOUNTING on 2 SIDE MACHINED TOMBSTONES

Art. 57C
Cubo lavorata
 Machined cube

 Dim. A=300 / B=630 /
 E=150 / H=950

Cod. 8.57.C00140

€ 3.721
Art. 864
Tipo di morsa
 Vise type

 Art.670
 Type 2
€ 1.790

 2 x
 Art.671A
€ 169

Cod. 7.67.OPN20

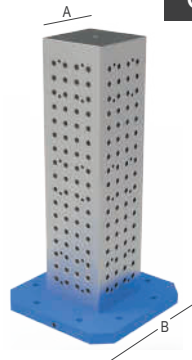
Cod. 7.67.1A200

Numero morsa x 12
 Vises number

Tot. € 23.508

MONTAGGIO e ALLINEAMENTO MORSE su CUBI a RETICOLO

ALIGNEMENT and VISES MOUNTING on GRID TOMBSTONES

Art. 53F
Cubo a reticolo
 Grid tombstone


Dim. A=250 / B=500 / H=1000

Cod. 8.53.F00107

€ 7.608
Art. 864
Tipo di morsa
 Vise type

 Art.650 Type 2x240
€ 1.314

Cod. 5.86.43500

Numero morsa x 12
 Vises number

Tot. € 15.768

Predisposizione e montaggio completo

Complete set up & mounting



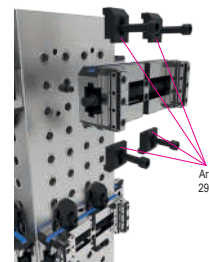
Cod. MAN-040-FMS

 Per morsa / each vise € 220
Tot. € 2.640

Realizzazione di fori filettati o fori di fissaggio (da un minimo di 4 a un massimo di 6), fori calibrati o chiavette (da un minimo di 2 a un massimo di 3).
 Creation of threaded holes or screw holes (minimum 4 and maximum 6), calibrated holes or key-ways (minimum 2 and maximum 3).

Montaggio ed allineamento (standard)

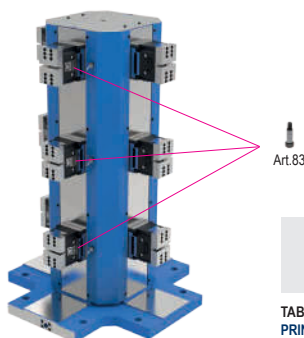
(Standard) Assembly and alignment



Cod. MAN-070-FMS

 Per morsa / each vise € 110
Tot. € 1.320

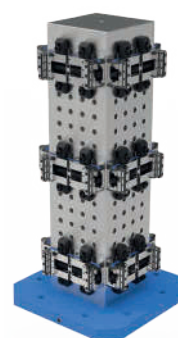
Montaggio di una o più morsa e/o attrezzature già predisposte tra loro comprensivo di controllo manuale. Il prezzo di listino comprende manodopera, viti, staffe e tasselli per singola morsa.
 Assembly of one or more vises or equipments already interfaced between themselves complete of manual check. The list price includes working hours, screws, holding clamps and key-nuts for only one vise.

Cubo con morsa
 Cube with vises


Art.83

Tot. € 29.869

 TABULATO controllo DEA - MAN-100-FMS : € 220 Extra
 PRINTOUT DEA control - MAN-100-FMS : € 220 Extra

Art. 750
Cubo con morsa
 Cube with vises


Art.750 Tipo 3

Cod. 1.75.03300

Tot. € 24.696

 TABULATO controllo DEA - MAN-100-FMS : € 220 Extra
 PRINTOUT DEA control - MAN-100-FMS : € 220 Extra

Diagrammi serraggio / Clamping diagrams

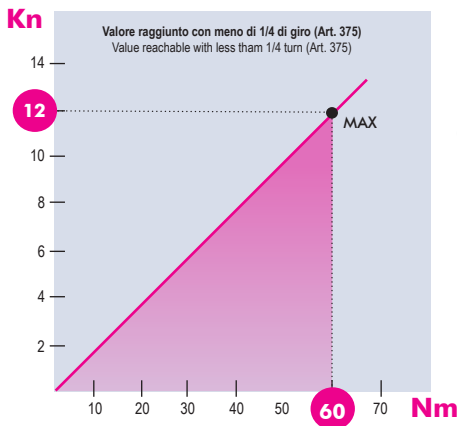
Multitasking

Diagrammi di serraggio meccanico con chiave dinamometrica Mechanical clamping diagrams with torque wrench

Art. 357

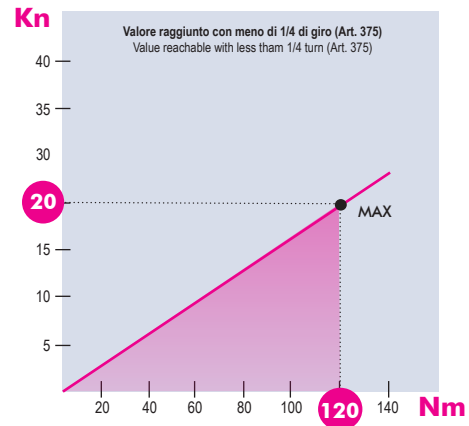
Morse tipo Vises type

 Vite TPF18 - Passo 2mm
 Screw TPF18 - Pitch 2mm

1

Art. 357

Morse tipo Vises type

 Vite TPF24 - Passo 2mm
 Screw TPF24 - Pitch 2mm

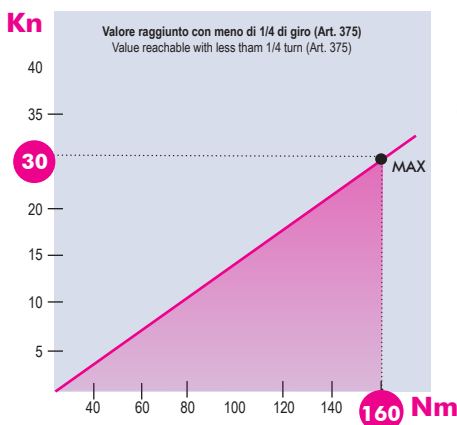
2


Gruppi di serraggio meccanici / Mechanical clamping devices

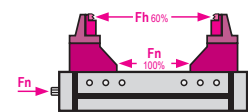
I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con le morse di varia grandezza (da 1 a 3), in funzione del momento applicato
 The following diagrams give the clamping force that can be obtained with each vise type (size 1 to 3) depending on the torque

Morse tipo Vises type

 Vite TPF24 - Passo 2mm
 Screw TPF24 - Pitch 2mm

3

Art. 357

FMS

Art. 868


Tipo morsa Vise type	1	2	3 - 4	5 - 6
Vite / Screw TPF	18 / 20mm	18 / 24mm	24 / 30mm	30 / 36mm
Passo / Pitch	2mm	2mm	2mm	3mm

Morse tipo 1 (Max 25 kN - 120 Nm)
 Vises type 1 (Max 25 kN - 120 Nm)

Morse tipo 2 (Max 25 kN - 140 Nm)
 Vises type 2 (Max 25 kN - 140 Nm)

Morse tipo 3 - 4 (Max 30 kN - 200 Nm)
 Vises type 3 - 4 (Max 30 kN - 200 Nm)

Morse tipo 5 - 6 (Max 32 kN - 240 Nm)
 Vises type 5 - 6 (Max 32 kN - 240 Nm)

NB: Alcuni fattori, come la lubrificazione, lo staffaggio, gli attriti ed altro, possono modificare i valori indicati fino a $\pm 10\%$. Per un corretto utilizzo non superare i valori indicati nel grafico
 Some factor as lubrication, clamping on the machine plate, frictions and more can modify above values within a $\pm 10\%$ range. For optimum operation do not exceed chart values.

Diagrammi di serraggio / Clamping diagrams

CompactGrip

Diagrammi di serraggio meccanico con chiave dinamometrica

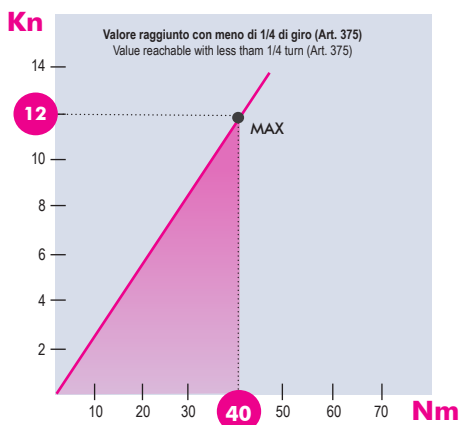
Mechanical clamping diagrams with torque wrench

Art. 357

Morse tipo Vises type

Vite TPF14 - Passo 2mm
Screw TPF14 - Pitch 2mm

1

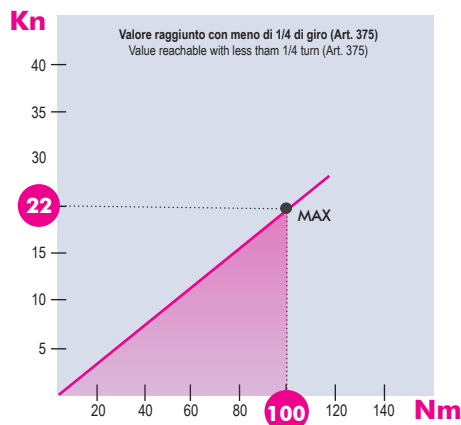


Art. 357

Morse tipo Vises type

Vite TPF18 - Passo 2mm
Screw TPF18 - Pitch 2mm

2



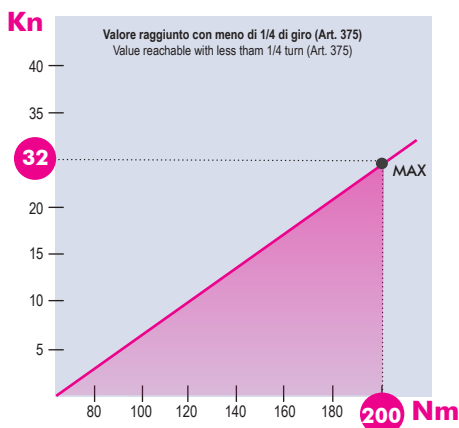
Gruppi di serraggio meccanici / Mechanical clamping devices

I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con le morse di varia grandezza (da 1 a 3), in funzione del momento applicato
The following diagrams give the clamping force that can be obtained with each vise type (size 1 to 3) depending on the torque

Morse tipo Vises type

Vite TPF24 - Passo 2mm
Screw TPF24 - Pitch 2mm

3



Art. 357

NB: Alcuni fattori, come la lubrificazione, lo staffaggio, gli attriti ed altro, possono modificare i valori indicati fino a $\pm 10\%$. Per un corretto utilizzo non superare i valori indicati nel grafico
Some factor as lubrication, clamping on the machine plate, frictions and more can modify above values within a $\pm 10\%$ range. For optimum operation do not exceed chart values.

Diagrammi di serraggio / Clamping diagrams

GripMatic

Diagrammi di serraggio pneumatico/idraulico Pneumatic/hydraulic clamping diagrams

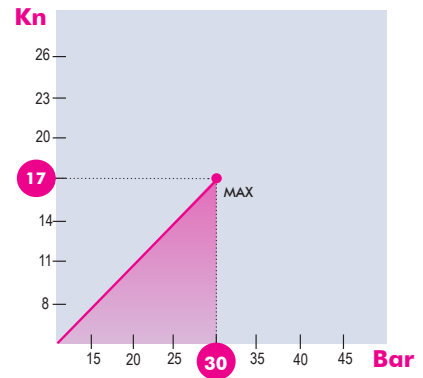
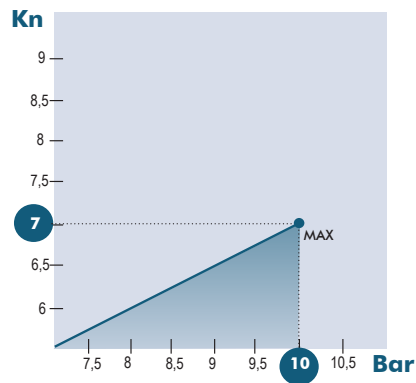
● Valore massimo consigliato (ARIA) ● Max suggested value (OIL)

I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con le morse di varia grandezza (da 2 a 4). In funzione della pressione dei fluidi (aria e olio).
The following diagrams give the clamping force that can be obtained with each vise type (size 2 to 4) as a function of the fluid pressure (air or oil).

Morse tipo Vises type

Pistone Ø85mm -
Superficie utile 51,8mm²
Hydraulic cylinder Ø85mm
Effective surface 51,8mm²

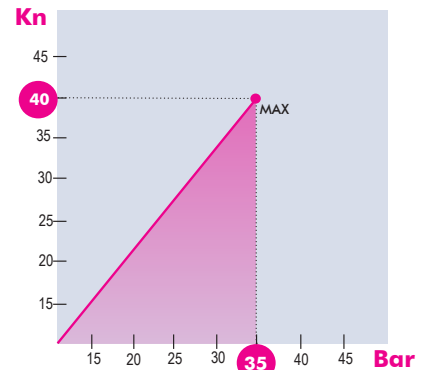
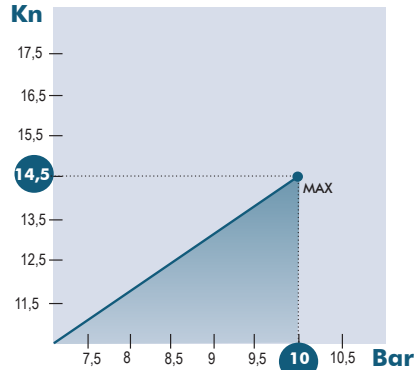
2
(1 bar = 14,5 psi)



Morse tipo Vises type

Pistone Ø135mm -
superficie utile 132,3mm²
Hydraulic cylinder Ø135mm -
Effective surface 132,3mm²

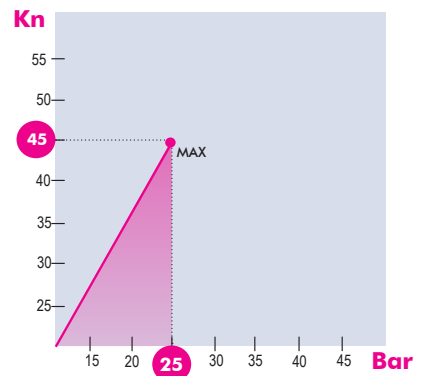
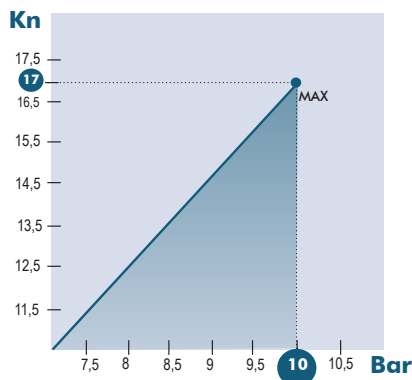
3
(1 bar = 14,5 psi)



Morse tipo Vises type

Pistone Ø170mm
Superficie utile 209,5mm²
Hydraulic cylinder Ø170mm
Effective surface 209,5mm²

4
(1 bar = 14,5 psi)



NB: Alcuni fattori, come la lubrificazione, lo staffaggio, gli attriti ed altro, possono modificare i valori indicati fino a $\pm 10\%$. Per un corretto utilizzo non superare i valori indicati nel grafico
Some factor as lubrication, clamping on the machine table, frictions and more can modify above values within a $\pm 10\%$ range. For optimum operation do not exceed chart values.

MORSE MULTITASKING

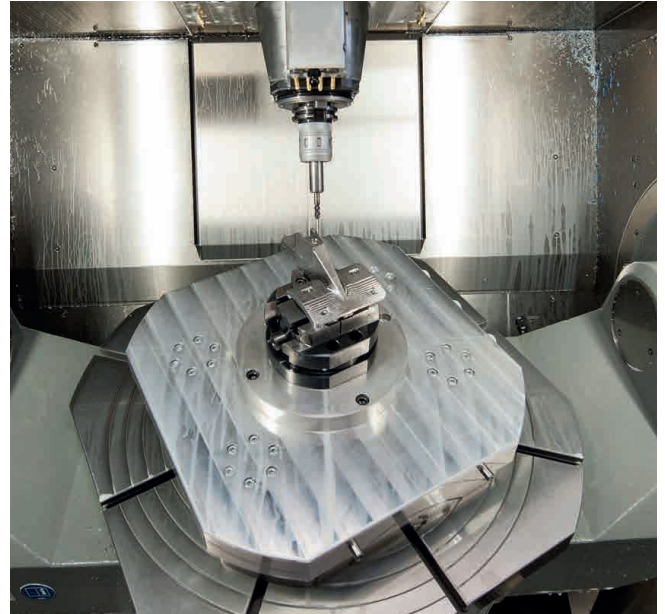
MULTITASKING VISES



Libretto Istruzioni / Instruction Book

Scansiona il QR code e scarica le istruzioni complete

Scan the QR code to download the complete instructions



MORSE COMPACTGRIP

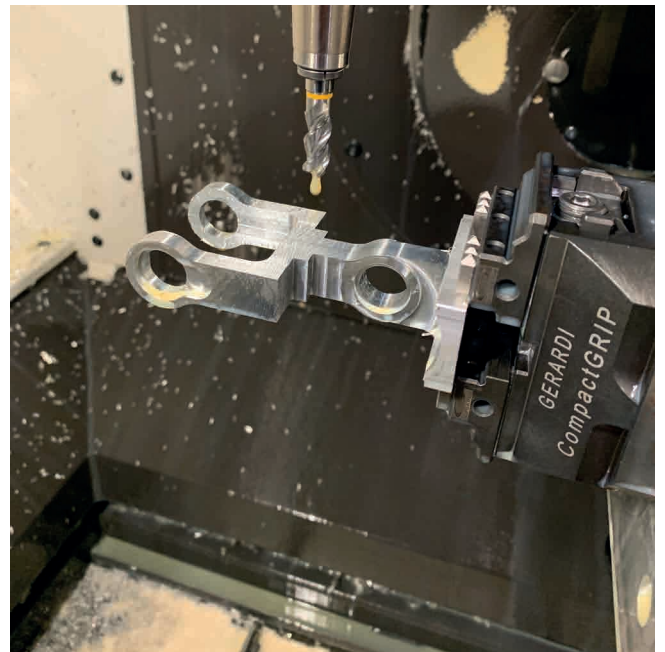
COMPACTGRIP VISES



Libretto Istruzioni / Instruction Book

Scansiona il QR code e scarica le istruzioni complete

Scan the QR code to download the complete instructions



Aperture Morse / Opening vise range

Scansiona il QR code e scarica la tabella con tutte le aperture delle morse CompactGrip

Scan the QR code to download the chart with all vise jaws opening

MORSE GRIPMATIC

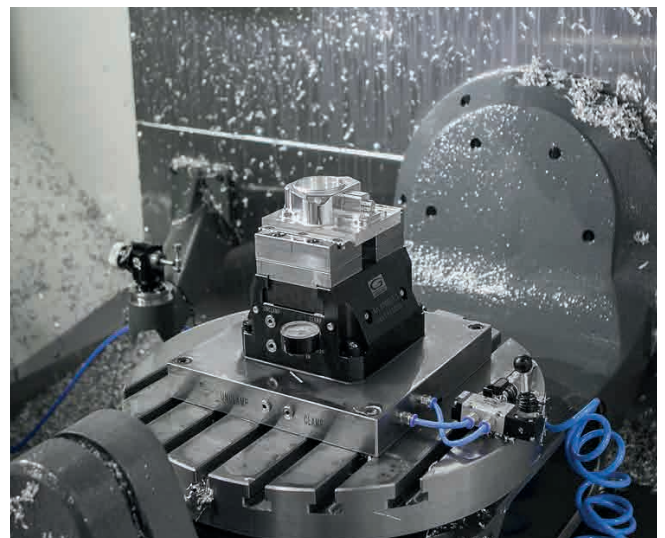
GRIPMATIC VISES



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Scansiona il QR code e scarica le istruzioni complete

Scan the QR code to download the complete instructions



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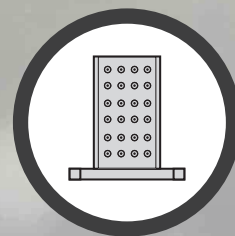
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8

*For Horizontal
machining centres!*

TOMBSTONES

Cubi, Piastre e Pallets / Cubes, Plates and Pallets

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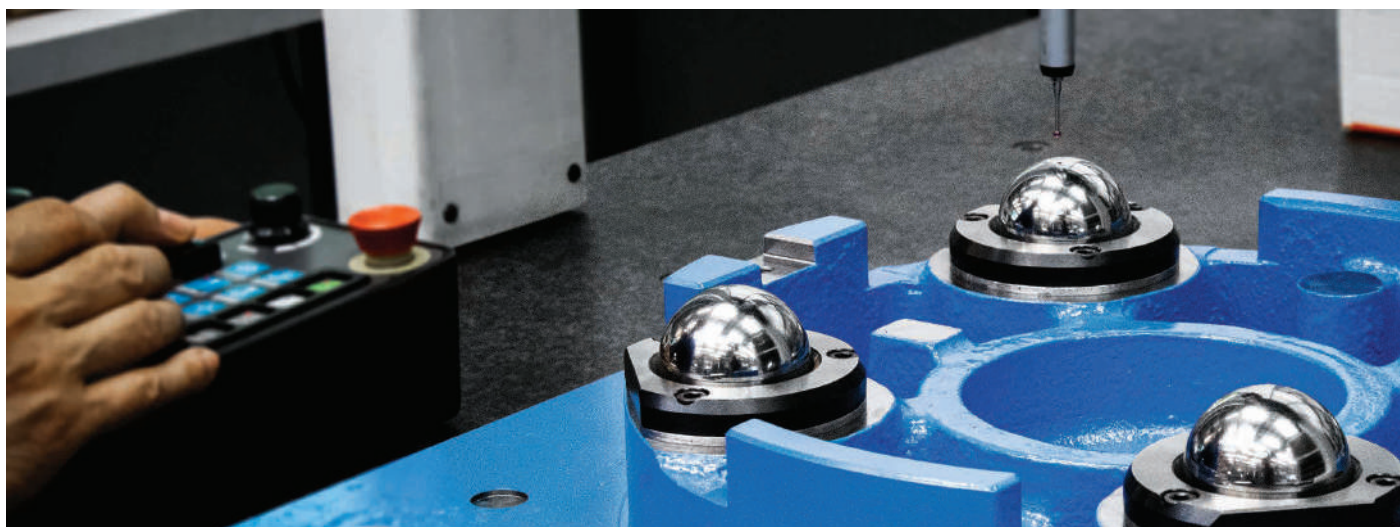
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VERIFICHE DIMENSIONALI TRAMITE MACCHINE DI MISURA

DIMENSIONAL CHECK THROUGH MEASUREMENT MACHINES



SIMBOLOGIA DATI TECNICI

TECHNICAL DATA ICONS

MODELLI PORTAPEZZI TOMBSTONE MODELS					POSSIBILITÀ DI POSSIBILITY OF				
	Cubi Cubes	Spalle 2 Sides tombstones	Cubi a croce Cross cubes	Squadre Angles		Posiziona- mento & cambio rapido Quick change & positioning	Cubi-morsa Vise tower	Divisore Automatico Automatic dividing head	Divisore Meccanico Mechanical dividing head
PIASTRE E PALLET PLATES AND PALLET					PAGINE PAGES				
			Piastre e sovratavole Plates & Interfaced plates	Pallet macchina Machine pallet		Accessori & Ricambi Accessories & Spare Parts	Istruzioni corretto utilizzo Instruction for a proper use		

OPZIONI LAVORAZIONI EXTRA

OPTIONS FOR EXTRA MACHINING

Nei codici, **POR** si riferisce ai cubi portapezzi con montaggio morse.
 In codes, **POR** refers to tombstones with vice mounting.

Lavorazione extra Extra machining	Cod.	PRICE LIST €
AGGIUNTA di un foro calibrato ADDITION of a calibrated hole	MAN-010-POR	110
AGGIUNTA di una chiavetta calibrata ADDITION of a calibrated key-way	MAN-020-POR	110
PREDISPOZIONE SEMPLICE SIMPLE SET UP	MAN-030-POR	110
PREDISPOZIONE & MONTAGGIO COMPLETO COMPLETE SET UP & MOUNTING	MAN-040-POR	220
MONTAGGIO PARZIALE PARTIAL ASSEMBLY	MAN-050-POR	110
MONTAGGIO SEMPLICE SIMPLE ASSEMBLY	MAN-060-POR	-
MONTAGGIO ed ALLINEAMENTO (Standard) (Standard) ASSEMBLY and ALIGNMENT	MAN-070-POR	110

Lavorazione extra Extra machining	Cod.	PRICE LIST €
MONTAGGIO VERTICALE COMPLETE VERTICAL ASSEMBLY	MAN-080-POR	165
ALLINEAMENTO e CONTROLLO tramite DEA ALIGNMENT and CONTROL by DEA \ CMM	MAN-090-POR	440
TABULATO controllo DEA PRINTOUT DEA control	MAN-100-POR	220
RIDUZIONE ALTEZZA dei cubi portapezzi HEIGHT LOWERING of the tombstones cube	MAN-110-POR	220
RIDUZIONE della BASE dei cubi portapezzi BASE REDUCTION of the tombstones	MAN-120-POR	220
MANUTENZIONE e/o RIPARAZIONE REPAIR MAINTENANCE	MAN-150-POR	110
RIDUZIONE ALTEZZA BASE dei cubi portapezzi BASE HEIGHT REDUCTION of the tombstones	MAN-160-POR	330

Vedi pagina 8.42 per esempi applicativi - See page 8.42 for application examples

Portapezzi

TOMBSTONES



Cubi, spalle, squadre e piastre, pallets

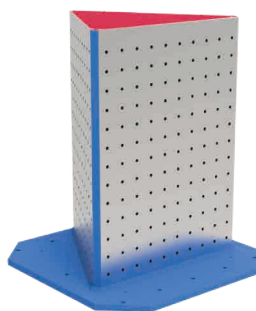
Cubes, 2 sides tombstones, Angle plates, plates

QUALITÀ GERARDI

- 1 - FUSIONE MONOBLOCCO IN GHISA G30
- 2 - DOPPIO TRATTAMENTO TERMICO DI DISTENSIONE
- 3 - LAVORAZIONE COMPLETA DI FRESATURA E PREDISPOSIZIONE PER NOSTRO SISTEMA ZERO POINT
- 4 - DISTENSIONE NATURALE DI RIPOSO MINIMO 48 ORE
- 5 - RASCHIETTATURA BASE D'APPOGGIO PER UNA PLANARITA' PERFETTA
- 6 - LAVORAZIONE COMPLETA DI FINITURA
- 7 - ESECUZIONE DI FORI O CAVE DI POSIZIONAMENTO E CENTRAGGIO PORTAPEZZO SULLA BASE D'APPOGGIO RASCHIETTATA
- 8 - CONTROLLO DIMENSIONALE PORTAPEZZO
- 9 - EVENTUALE RITOCOCCO TRAMITE RASCHIETTATURA PER RIPORTARE IL PORTAPEZZO NELLA PERPENDICOLARITÀ, ORTOGONALITÀ E PARALLELISMO PREVISTI
- 10 - IDENTIFICAZIONE TRAMITE NUMERO DI MATRICOLA INCISO SUL PORTAPEZZO CON ALLEGATO CERTIFICATO DI COLLAUDO

GERARDI QUALITY

- 1 - INTEGRAL CAST IRON G30 CASTING
- 2 - DOUBLE STRESS RELIEVING HEAT TREATMENT
- 3 - COMPLETE ROUGH MILLING WORK AND PREARRANGED WORK FOR THE USE OF OUR ZERO POINT GERARDI SYSTEM
- 4 - NATURAL 48 HOURS STRESS RELIEVING
- 5 - HAND SCRAPING OF BOTTOM BASE FACE FOR A PERFECT PLANARITY
- 6 - COMPLETE MACHINE FINISHING
- 7 - BASE FACE TAILOR-MADE, TOMBSTONE CENTERED ON THE HAND SCRAPE BASE PLATE
- 8 - DIMENSIONAL CONTROL AND QUALITY CHECK
- 9 - SOME HAND-SCRAPED COULD BE MADE IN ORDER TO GET A PERFECT - PARALLELISM - ORTOGONALITY AND PERPENDICULARITY WITHIN THE QUOTED TOLERANCES.
- 10 - PART IDENTIFICATION ENGRAVED ON THE PRODUCT WITH INSPECTION SHEET INCLUDED.



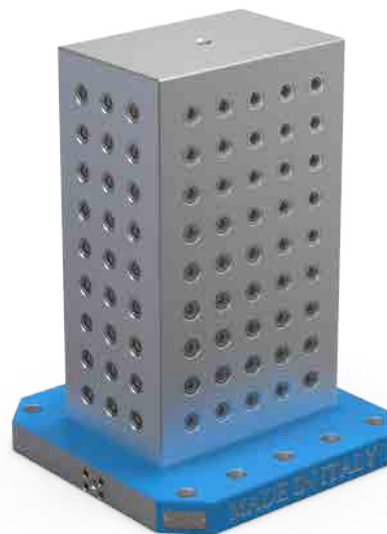
Soluzioni Speciali Specific Tombstones

Soluzioni speciali e personalizzate integrate con sistemi di bloccaggio adeguati possono essere studiate e realizzate su richiesta per sfruttare al meglio il campo di lavoro e le capacità delle macchine.

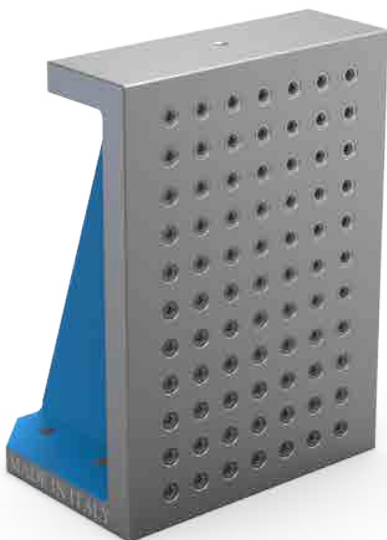
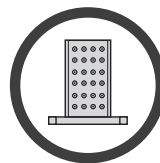
Specific or tailor-made tombstones complete with clamping systems applications could be studied and manufactured on request in order to better exploit the machines runs and capacity.



Cubo a croce
Cross cube



Cubo a reticolo
Grid Cube



Squadra a reticolo
con bussole
Grid angle with
bushing



Predisposizione Zero Point Zero Point Ready

Predisposizione della base di appoggio di 4 fori Ø20F7 e filetto M16 con interassi precisi, pronte per l'utilizzo dei ns. Zero point, oppure per l'interfacciamento con altri pallett o piastre.

Base with 4 precision holes Ø 20F7 and bottom threads M16 with precise pitch dimensions for the use of our Zero Point or to be interfaced with other pallets or head plates.

A supporto ed integrazione dei sistemi di bloccaggio la GERARDI ha progettato e via via sviluppato una gamma di portapezzi in fusioni monoblocco di ghisa G30 (con pareti spessore 43-45mm circa e con doppio trattamento di distensione e stabilizzazione) e recentemente anche di alluminio speciale ad alta resistenza. Tali prodotti possono essere forniti nelle forme di: Cubi, Spalle, Squadre, Piastre, Mensole e speciali a richiesta. L'importanza sempre maggiore di questi prodotti deriva dallo sviluppo e diffusione di centri di lavoro orizzontali e sistemi pallettizzati che richiedono appunto tali strutture di supporto per le attrezzature o per i pezzi da lavorare stessi. I controlli vengono eseguiti con macchine tridimensionali su ogni pezzo eseguito.

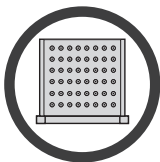
To support and complete the Gerardi Modular Workholding System a more and more strategic and important role is played by all the range of modular tombstones and sub-plates. They are manufactured in the most different shapes and versions, anyway always provided in one solid cast iron cast G30 with walls about 40 mm thickness and with double stress relieving heat treatment. Recently in high resistance aluminum. The shapes available are: Cubes, Two side tombstone, Angles, Plates and subplates, Shelves and special on specific request. The greater importance of such products originates from the development and widespread of Horizontal machining centres and multipallet systems which require just such structures to support the fixtures or work-pieces. The checking is carried out piece by piece on a 3-dimensional machine.

Cubo leggero

Light Cube

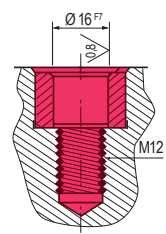
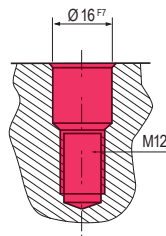


Nuova serie di cubi ALLEGGERITA con pareti di spessore 20/25mm ideali per centri di lavoro ad alta velocità
 New cubes light series with wall reduced thickness 20/25mm ideal for high speed machine



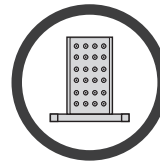
Spalla a reticolo

2 side tombstone



Qualsiasi modifica, lavorazione o personalizzazione extra sarà eseguita previo preventivo. Per le versioni speciali pagamento 50% all'ordine. Il ns. ufficio tecnico è a Vs. disposizione per eventuali chiarimenti e consegne

Any special requirement will be quoted "Extra" for special type payment 50% on order. Our technical department is always available for any explanations or delivery time



SCAN IT TO SEE



THE WEB PAGE



Per centri di lavoro orizzontali

For horizontal machining centre

DISPONIBILI IN 5 VERSIONI DIVERSE
 AVAILABLE IN 5 DIFFERENT FINISHING

Versione A - Type A



FUSIONE IN GHISA - CAST IRON CASTING

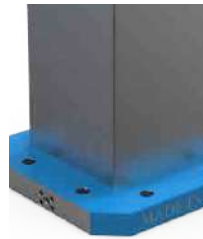
Fusione in ghisa G30 monoblocco con doppio trattamento di distensione. Pareti spessore 43-45 mm (Sovrametallo 10 mm)

*Alcuni modelli indicati non vengono sgrassati

One integral G30 cast iron casting rough milled with double stress relieving heat treatment. Wall thickness 43-45 mm (10 mm stock)

*Few highlighted items are not rough milled

Versione B - Type B



BASE FINITA - BASE FINISHED

Fusione con base lavorata e raschiata per pallet a norme Europee o Giapponesi.

Rough milled casting with base face machined and hand scraped for direct clamping on European or Japanese standard pallet.

Versione C - Type C

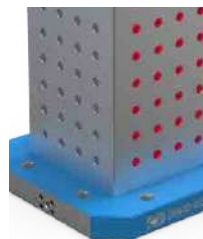


COMPLETAMENTE LAVORATI - COMPLETELY FINISHED

Cubo completamente finito con pareti spessore 38-40 mm circa. Tolleranza $\pm 0,02$ mm

Cube completely finished with wall thickness roughly 38-40 mm. Tolerance $\pm 0,02$ mm

Versione E - Type E



RETICOLO INTEGRALE - GRIND CUBE

Cubo a reticolo con fori calibrati e filetti integrali nella fusione. Tolleranza $\pm 0,02$ mm

Integral cube with calibrated holes and solid threads in the casting itself. Tolerance $\pm 0,02$ mm

Versione F - Type F



RETICOLO CON BUSSOLE - GRID CUBE WITH BUSHINGS

Cubo a reticolo con bussole di centraggio in acciaio temprato 100 Cr6 DIN 179C. Filetti riportati in acciaio inox 18/8. Tolleranza 0,02 mm

Integral cube with centering bushings in special hardened alloy steel 100Cr6 - DIN 179C. Inserted threads are in 18/8 stainless steel. Tolerance $\pm 0,02$ mm

INTERFACCIAMENTO STANDARD

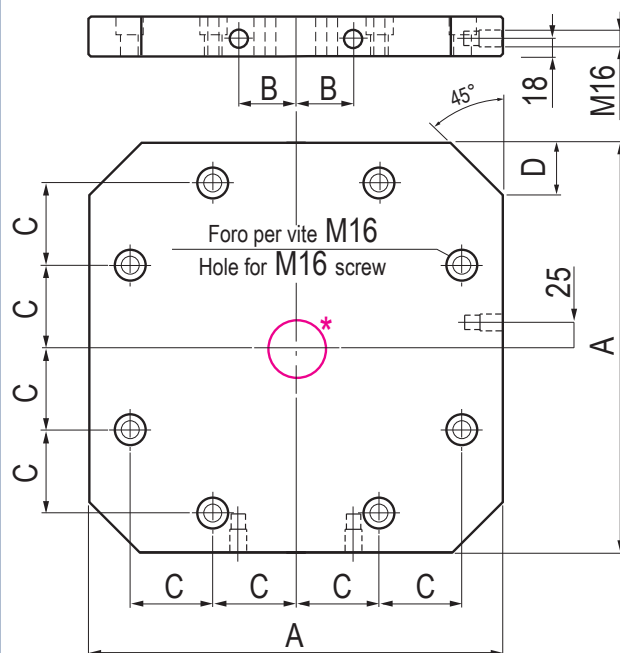
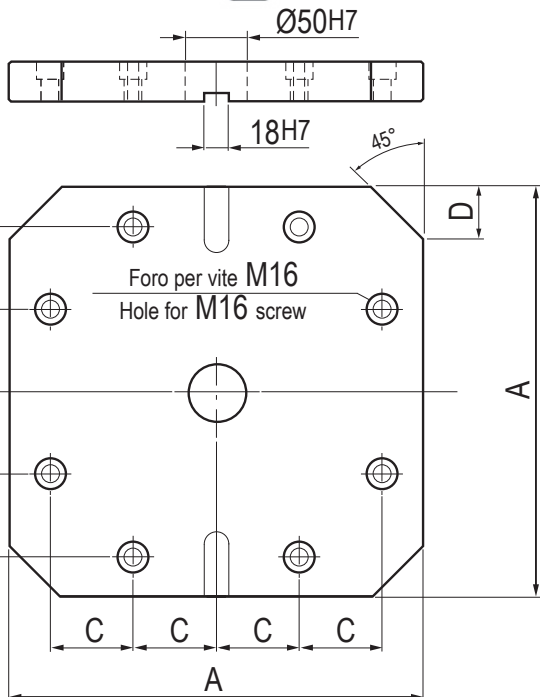
STANDARD INTERFACE

STANDARD EUROPEO
EUROPEAN STANDARD

A	400	500	630	800
B	-	-	-	-
C	80	100	125	160
D	50	60	70	100

STANDARD GIAPPONESE (Normativa JIS)
JAPANESE STANDARD (Normative JIS)

A	400	500	630	800
B	55	75	100	135
C	80	100	125	160
D	50	60	70	100



Foro centrale (OPZIONE)* - Central hole (OPTIONAL)* = €116

COME LAVORARE I PORTAPEZZI, TRAMITE ZERO POINT E STAFFE INTELLIGENTI

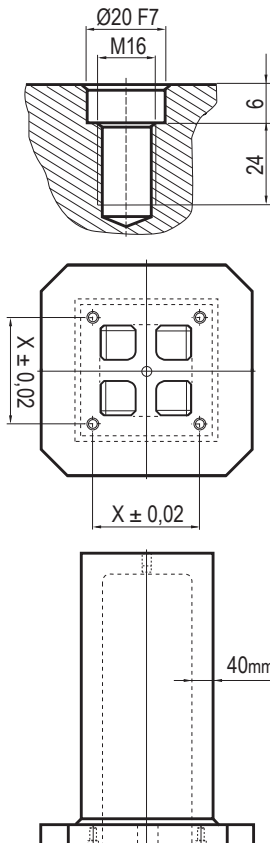
HOW TO MACHINE TOMBSTONES WITH ZERO POINT AND INTELLIGENT CLAMPS

Tutti i ns. portapezzi (escluso la fusione grezza), sono predisposti, sulla base di appoggio con forature e filettature per l'uso dei tiranti

Zero-Point Art.11A T.2 Questo principalmente significa che tutti i ns. portapezzi possono essere velocemente fissati, posizionati e lavorati sulle 5 facce senza nessun impedimento per quanto riguarda il percorso utensili.

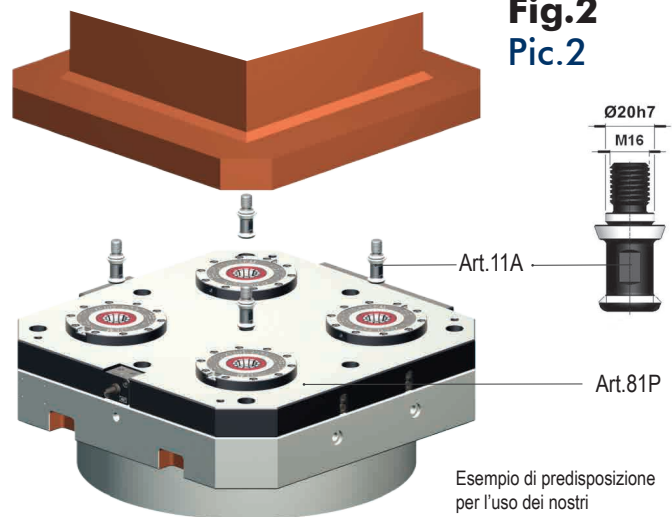
All our tombstone fixture (rough cast iron casting excluded) are pre-worked and prepared on the bottom base face for our Zero-Point pull-stud Art.11A T.2. This important feature will give you many possible application.

Fig.1
Pic.1



* Sulle superfici grezze aggiungere 5mm
 * Add 5mm on the rough surfaces

Fig.2
Pic.2

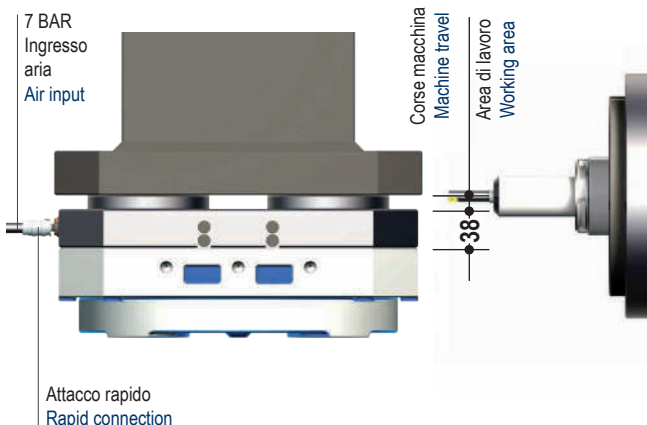


Esempio di predisposizione per l'uso dei nostri "Zero Point System"
 Prearranged work for the use of our "Zero Point System"

Per montaggio, posizionamento e ancoraggio istantaneo con necessità di collegamento pneumatico solo per lo sbloccaggio. Il bloccaggio è meccanico tramite molle. Con questo sistema il pallet può tranquillamente essere movimentato senza l'ausilio di collegamenti elettrici, elettronici, idraulici o pneumatici.

Quick clamping and accurate positioning set up of your tombstone through pneumatic source (only for unclamping - clamping is mechanically maintained by springs)
 With this system your pallet could easily travel without the need of electrical pneumatic or electronic connection.

Fig.3
Pic.3



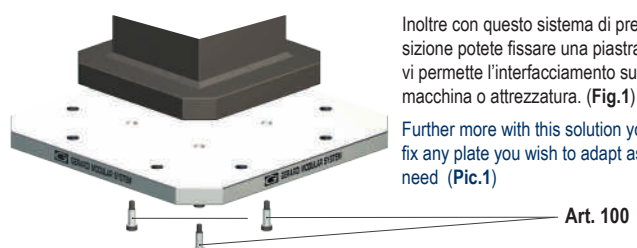
Gli "Zero Point Gerardi" sono utilizzabili anche per ottimizzare le corse del Vs. centro orizzontale sollevando il pezzo all'altezza desiderata senza l'ausilio di sovravole.

Our hydraulic or pneumatic "Zero Point Gerardi" are also used to optimize the vertical travel of your horizontal machining center without the need of extra over pallet plates.

Fig.4
Pic.4



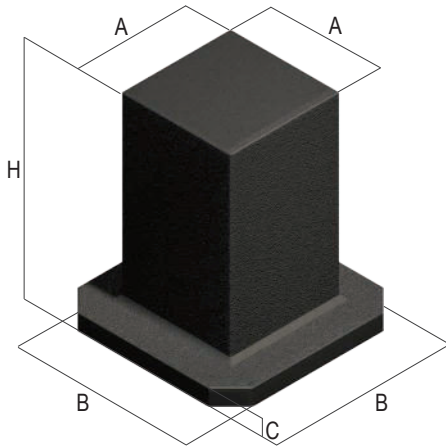
I fori di predisposizione (Fig.1- pag. 8.5) possono essere usati anche per l'utilizzo di "staffe intelligenti" Art.100 e relativi prigionieri.
 The pre-work holes (Pic.1- pag. 8.5) are also coming handy for the use of our "intelligent clamps" Art. 100



Inoltre con questo sistema di predisposizione potete fissare una piastra che vi permette l'interfacciamento sulla Vs. macchina o attrezzatura. (Fig.1)

Further more with this solution you can fix any plate you wish to adapt as you need (Pic.1)

Art. 100

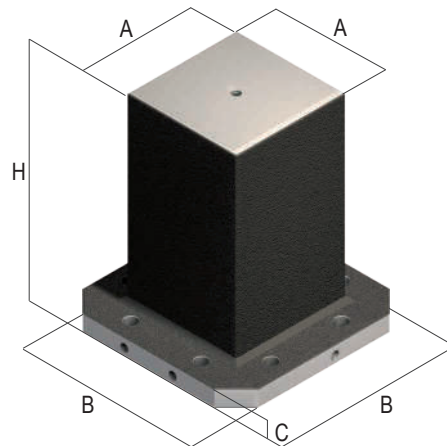
CUBI - CUBES
Art. 53A


General tolerance +12 / -5 mm

Dimensioni - Dimensions

A	B	C	H	kg	Cod.	€
90	260	45	410	44	8.53.A00009	284
170	260	50	300	66	8.53.A00020	425
210	325	50	310	96	8.53.A00030	616
210	360	50	380	119	8.53.A00040	763
210	360	50	535	153	8.53.A00045	980
210	510	50	610	217	8.53.A00050	1.388
260	410	50	460	179	8.53.A00060	1.146
260	460	50	460	195	8.53.A00070	1.248
260	410	50	560	207	8.53.A00080	1.324
260	410	50	670	239	8.53.A00081	1.528
260	390	40	570	239	8.53.A00082	1.326
260	510	50	620	258	8.53.A00090	1.651
260	510	50	660	270	8.53.A00100	1.728
260	510	50	760	298	8.53.A00105	1.790
260	640	50	710	337	8.53.A00106	2.153
260	510	50	1010	368	8.53.A00107	2.537
280	410	50	520	210	8.53.A00110	1.344
310	510	50	610	293	8.53.A00111	1.875
310	510	50	760	345	8.53.A00113	2.205
310	510	50	910	397	8.53.A00115	2.537
340	510	50	670	335	8.53.A00120	2.238
360	510	50	420	252	8.53.A00140	1.611
360	510	50	460	268	8.53.A00150	1.714
360	510	50	560	310	8.53.A00160	1.981
360	510	50	620	334	8.53.A00170	2.135
360	510	50	710	372	8.53.A00171	2.377
360	640	50	710	425	8.53.A00172	2.717
360	640	50	830	496	8.53.A00180	3.169
360	510	50	830	420	8.53.A00181	3.003
360	640	50	960	529	8.53.A00185	3.381
460	640	50	560	431	8.53.A00190	2.756
460	640	50	660	486	8.53.A00200	3.106
510	640	50	870	655	8.53.A00211	4.184
560	760	50	860	763	8.53.A00220	4.874
510	810	50	810	704	8.53.A00230	4.497
640	810	50	1100	1623	8.53.A00235	10.234

Art. 53B

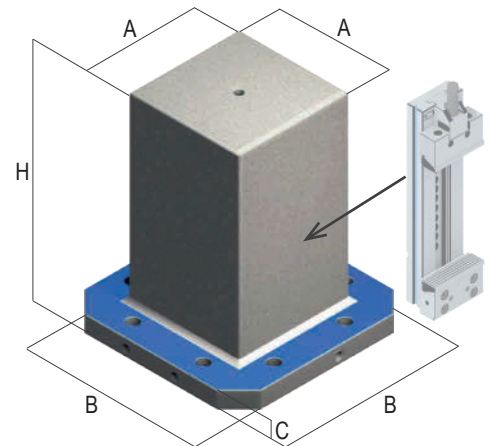
 Base finita
Base finished


General tolerance +12 / -5 mm

Dimensioni - Dimensions

A	B	C	H	kg	Cod.	€
90	250	40	400	40	8.53.B00009	835
170	250	45	290	61	8.53.B00020	946
210	315	45	300	89	8.53.B00030	1.057
210	350	45	370	112	8.53.B00040	1.169
210	350	45	525	147	8.53.B00045	1.397
210	500	45	600	203	8.53.B00050	1.980
260	400	45	450	169	8.53.B00060	1.633
260	450	45	450	183	8.53.B00070	1.779
260	400	45	550	197	8.53.B00080	1.853
260	400	45	660	228	8.53.B00081	2.139
260	380	35	560	228	8.53.B00082	1.735
260	500	45	610	244	8.53.B00090	2.309
260	500	45	650	255	8.53.B00100	2.417
260	500	45	750	284	8.53.B00105	2.505
260	630	45	700	316	8.53.B00106	3.014
260	500	45	1000	355	8.53.B00107	3.551
280	400	45	510	198	8.53.B00110	1.881
310	500	45	600	278	8.53.B00111	2.621
310	500	45	750	330	8.53.B00113	3.086
310	500	45	900	383	8.53.B00115	3.551
340	500	45	660	321	8.53.B00120	3.131
360	500	45	410	236	8.53.B00140	2.256
360	500	45	450	253	8.53.B00150	2.397
360	500	45	550	294	8.53.B00160	2.774
360	500	45	610	319	8.53.B00170	2.990
360	500	45	700	356	8.53.B00171	3.328
360	630	45	700	403	8.53.B00172	3.802
360	630	45	820	452	8.53.B00180	4.217
360	500	45	820	403	8.53.B00181	4.205
360	630	45	950	508	8.53.B00185	4.730
460	630	45	550	409	8.53.B00190	3.855
460	630	45	650	463	8.53.B00200	4.347
510	630	45	860	631	8.53.B00211	5.858
560	750	45	850	732	8.53.B00220	6.823
510	800	45	800	671	8.53.B00230	6.295
640	800	45	1050	1565	8.53.B00235	14.447

Art. 53C

 Completamente lavorati
Completely machined


General tolerance ± 0,02 mm

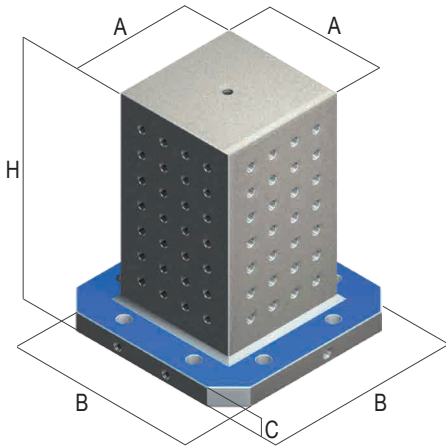
Dimensioni - Dimensions

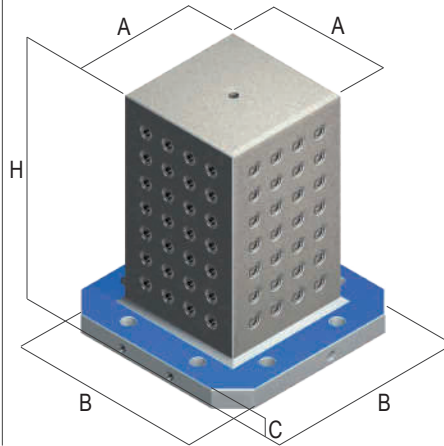
A	B	C	H	kg	Cod.	€
80	250	35	400	33	8.53.C00009	1.864
160	250	40	290	54	8.53.C00020	1.975
200	315	40	300	79	8.53.C00030	2.114
200	350	40	370	99	8.53.C00040	2.225
200	350	40	525	128	8.53.C00045	2.503
200	500	40	600	179	8.53.C00050	2.909
250	400	40	450	150	8.53.C00060	2.615
250	450	40	450	164	8.53.C00070	2.837
250	400	40	550	174	8.53.C00080	2.775
250	400	40	660	201	8.53.C00081	3.114
250	380	30	560	201	8.53.C00082	2.837
250	500	40	610	215	8.53.C00090	3.361
250	500	40	650	225	8.53.C00100	3.520
250	500	40	750	249	8.53.C00105	3.649
250	630	40	700	279	8.53.C00106	4.306
250	500	45	1000	310	8.53.C00107	5.071
270	400	40	510	176	8.53.C00110	3.004
300	500	40	600	247	8.53.C00111	3.819
300	500	40	750	293	8.53.C00113	4.408
300	500	40	900	338	8.53.C00115	5.071
330	500	40	660	287	8.53.C00120	4.473
350	500	40	410	212	8.53.C00140	3.378
350	500	40	450	226	8.53.C00150	3.592
350	500	40	550	263	8.53.C00160	4.039
350	500	40	610	284	8.53.C00170	4.350
350	500	40	700	317	8.53.C00171	4.753
350	630	40	700	359	8.53.C00172	5.430
350	630	40	820	402	8.53.C00180	6.335
350	500	40	820	358	8.53.C00181	6.004
350	630	40	950	450	8.53.C00185	6.757
450	630	40	550	367	8.53.C00190	5.506
450	630	40	650	415	8.53.C00200	6.208
500	630	40	860	565	8.53.C00211	8.367
550	750	40	850	656	8.53.C00220	9.745
500	800	40	800	600	8.53.C00230	8.992
630	800	40	1050	1556	8.53.C00235	20.466

Modelli normalmente presenti a magazzino

! Per lavorazioni o materiali diversi (alluminio), richiedere quotazione specifica

CUBI - CUBES
Art. 53E

 Reticolo integrale
 Grid cube

Art. 53F

 Reticolo con bussole
 Grid cube with bushing

 Stesse dimensioni dell'Art. 53C / Same dimensions of Art. 53C
 Peso: -5% circa rispetto Art. 53C / Weight: About -5% of Art. 53C

Art. 53E 40		Art. 53E 50		Art. 53F 40		Art. 53F 50	
Cod.	€	Cod.	€	Cod.	€	Cod.	€
8.53.E40009	2.003	8.53.E00009	1.975	8.53.F40009	2.031	8.53.F00009	2.003
8.53.E40020	2.170	8.53.E00020	2.058	8.53.F40020	2.225	8.53.F00020	2.086
8.53.E40030	2.448	8.53.E00030	2.337	8.53.F40030	2.531	8.53.F00030	2.364
8.53.E40040	2.603	8.53.E00040	2.448	8.53.F40040	2.871	8.53.F00040	2.531
8.53.E40045	3.199	8.53.E00045	2.865	8.53.F40045	3.692	8.53.F00045	3.079
8.53.E40050	4.410	8.53.E00050	3.676	8.53.F40050	4.990	8.53.F00050	4.240
8.53.E40060	3.638	8.53.E00060	3.118	8.53.F40060	4.116	8.53.F00060	3.497
8.53.E40070	3.963	8.53.E00070	3.397	8.53.F40070	4.484	8.53.F00070	3.809
8.53.E40080	4.205	8.53.E00080	3.505	8.53.F40080	4.761	8.53.F00080	4.044
8.53.E40081	4.763	8.53.E00081	4.046	8.53.F40081	5.497	8.53.F00081	4.580
8.53.E40082	4.054	8.53.E00082	3.539	8.53.F40082	4.666	8.53.F00082	3.929
8.53.E40090	5.141	8.53.E00090	4.370	8.53.F40090	5.933	8.53.F00090	4.944
8.53.E40100	5.380	8.53.E00100	4.572	8.53.F40100	6.208	8.53.F00100	5.175
8.53.E40105	5.690	8.53.E00105	4.742	8.53.F40105	6.440	8.53.F00105	5.366
8.53.E40106	6.714	8.53.E00106	5.596	8.53.F40106	7.749	8.53.F00106	6.459
8.53.E40107	7.911	8.53.E00107	6.591	8.53.F40107	9.128	8.53.F00107	7.608
8.53.E40110	4.268	8.53.E00110	3.671	8.53.F40110	4.923	8.53.F00110	4.104
8.53.E40111	5.839	8.53.E00111	4.961	8.53.F40111	6.738	8.53.F00111	5.615
8.53.E40113	6.875	8.53.E00113	5.727	8.53.F40113	7.931	8.53.F00113	6.612
8.53.E40115	7.911	8.53.E00115	6.591	8.53.F40115	9.128	8.53.F00115	7.608
8.53.E40120	6.975	8.53.E00120	5.813	8.53.F40120	8.047	8.53.F00120	6.707
8.53.E40140	5.120	8.53.E00140	4.389	8.53.F40140	5.794	8.53.F00140	4.923
8.53.E40150	5.342	8.53.E00150	4.539	8.53.F40150	6.163	8.53.F00150	5.136
8.53.E40160	6.177	8.53.E00160	5.249	8.53.F40160	7.127	8.53.F00160	5.941
8.53.E40170	6.655	8.53.E00170	5.655	8.53.F40170	7.680	8.53.F00170	6.400
8.53.E40171	7.413	8.53.E00171	6.177	8.53.F40171	8.554	8.53.F00171	7.127
8.53.E40172	8.467	8.53.E00172	7.057	8.53.F40172	9.771	8.53.F00172	8.144
8.53.E40180	9.884	8.53.E00180	8.236	8.53.F40180	11.403	8.53.F00180	9.503
8.53.E40181	9.365	8.53.E00181	7.805	8.53.F40181	10.804	8.53.F00181	9.005
8.53.E40185	10.539	8.53.E00185	8.783	8.53.F40185	12.163	8.53.F00185	10.135
8.53.E40190	8.588	8.53.E00190	7.157	8.53.F40190	9.909	8.53.F00190	8.259
8.53.E40200	9.684	8.53.E00200	8.072	8.53.F40200	11.174	8.53.F00200	9.312
8.53.E40211	13.051	8.53.E00211	10.877	8.53.F40211	15.058	8.53.F00211	12.549
8.53.E40220	15.203	8.53.E00220	12.667	8.53.F40220	17.540	8.53.F00220	14.618
8.53.E40230	14.025	8.53.E00230	11.688	8.53.F40230	16.183	8.53.F00230	13.486
8.53.E40235	31.299	8.53.E00235	26.414	8.53.F40235	36.114	8.53.F00235	30.095

Specifiche - Specifications
Art. 53A

 Fusione in ghisa G30 monoblocco con doppio trattamento di distensione.
 Pareti con spessore 48-50 mm
 (Sovrametallo 15 mm)

 One integral G30 cast iron casting with double stress relieving heat treatment.
 Wall thickness 48-50 mm
 (15 mm stock)

Art. 53B

 Fusione con base lavorata e raschiata per pallet a norme Europee o Giapponesi. **Vedi specifiche a pag. 8.6**

 Casting with base face machined and hand scraped for direct clamping on European or Japanese standard pallet. **See specifications pag. 8.6**

 Per garantire la compatibilità con le prossime forniture Finire il cubo consultando **quota A versione C**
 To guarantee compatibility with future supplies Finish the cube checking **Dimension A Version C**
Art. 53C

Cubo completamente finito con pareti spessore 38-40 mm circa.

Cube completely finished with wall thickness roughly 38-40 mm

 Predisposizione, montaggio ed allineamento di ogni morsa €227
 Set-up, mounting and alignment for each vise €227

Art. 53E 40 / 50

 Cubo a reticolo con fori calibrati e filettati integrali
 Tolleranza ± 0,02 mm

- Interasse reticolo 40 mm = Ø 12 / M10
- Interasse reticolo 50 mm = Ø 16 / M12

 Grid cube with calibrated holes and solid threads
 Tolerance ± 0,02 mm

- Grid pitch 40 mm = Ø 12 / M10
- Grid pitch 50 mm = Ø 16 / M12

 Montaggio ed allineamento di ogni morsa €114
 Mounting and alignment for each vise €114

Art. 53F 40 / 50

 Cubo a reticolo con bussole temprate 100Cr6 e filetti riportati in acciaio inox
 Tolleranza ± 0,02 mm

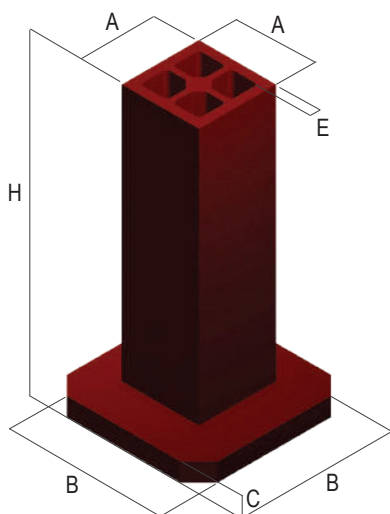
- Interasse reticolo 40 mm = Ø 12 / M10
- Interasse reticolo 50 mm = Ø 16 / M12

 Grid cube with hardened bushing 100Cr6 and stainless steel helicoils
 Tolerance ± 0,02 mm

- Grid pitch 40 mm = Ø 12 / M10
- Grid pitch 50 mm = Ø 16 / M12

 Montaggio ed allineamento di ogni morsa €114
 Mounting and alignment for each vise €114

 Disponibili in versione leggera (Pag.8.10 - 8.11)
 Available also as light version (Pag.8.10 - 8.11)

CUBI LEGGERI - LIGHT CUBES
Art. 53A1


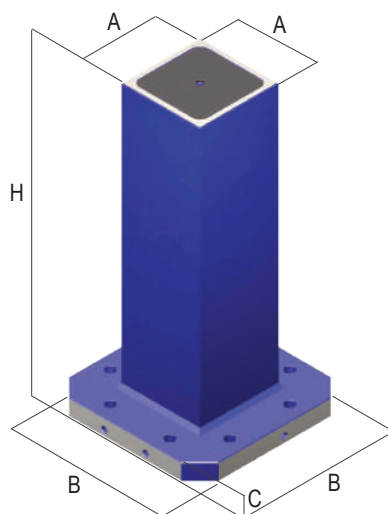
General tolerance +12 / -5 mm

Dimensioni - Dimensions

A	B	C	E	H	kg	Cod.	€
210	410	50	25	760	178	8.53.A10055	1.094
260	410	50	25	860	240	8.53.A10085	1.476
260	510	50	25	760	249	8.53.A10105	1.532
360	510	50	30	910	414	8.53.A10182	2.544
360	640	50	30	960	488	8.53.A10185	2.998
460	640	50	35	960	655	8.53.A10205	4.024

E= Spessore pareti - Wall thickness

Art. 53B1

 Base finita
 Base finished


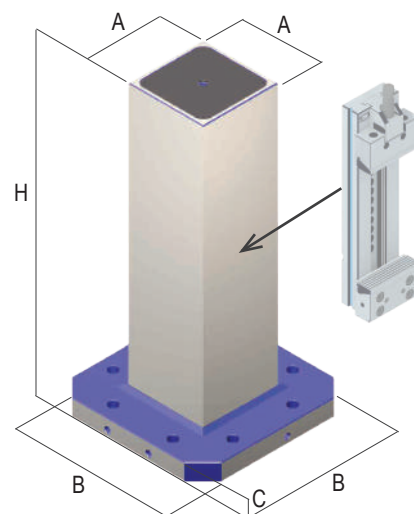
General tolerance +12 / -5 mm

Dimensioni - Dimensions

A	B	C	E	H	kg	Cod.	€
210	400	45	25	750	167	8.53.B10055	1.853
260	400	45	25	850	229	8.53.B10085	2.235
260	500	45	25	750	234	8.53.B10105	2.439
360	500	45	30	900	400	8.53.B10182	3.453
360	630	45	30	950	468	8.53.B10185	4.135
460	630	45	35	950	634	8.53.B10205	5.161

E= Spessore pareti - Wall thickness

Art. 53C1

 Completamente lavorati
 Completely machined


General tolerance ± 0,02 mm

Dimensioni - Dimensions

A	B	C	E	H	kg	Cod.	€
200	400	40	20	750	142	8.53.C10055	2.641
250	400	40	20	850	196	8.53.C10085	3.238
250	500	40	20	750	201	8.53.C10105	3.423
350	500	40	25	900	351	8.53.C10182	4.929
350	630	40	25	950	411	8.53.C10185	5.596
450	630	40	30	950	568	8.53.C10205	7.028

E= Spessore pareti - Wall thickness

Art. 53A1

Fusione in ghisa G30 monoblocco con doppio trattamento di distensione.

Pareti con spessore ridotto
 (Sovrametallo 15 mm).

One integral G30 cast iron casting with double stress relieving heat treatment.

Wall with reduced thickness
 (15 mm stock)

Art. 53B1

 Fusione con base lavorata e raschiata per pallet a norme Europee o Giapponesi. **Vedi specifiche a pag. 8.6**

Casting with base face machined and hand scraped for direct clamping on European or Japanese standard pallet.

See specifications pag. 8.6

Per garantire la compatibilità con le prossime forniture

 Finire il cubo consultando **quota A versione C**

To guarantee compatibility with future supplies

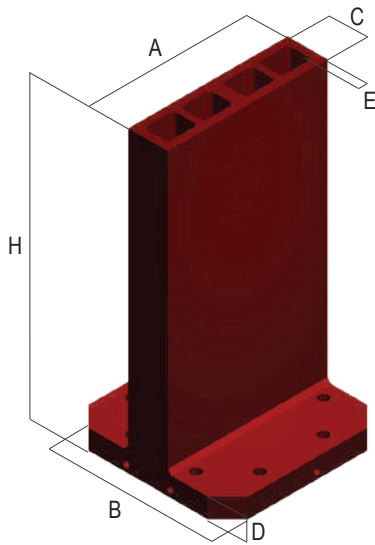
 Finish the cube checking **Dimension A Version C**
Art. 53C1

 Cubo completamente finito con **pareti di spessore ridotto**

 Cube completely finished with **wall reduced thickness**
Predisposizione, montaggio ed allineamento di ogni morsa €227
Set-up, mounting and alignment for each vise €227

Disponibili in versione con pareti 38-40mm (Pag.8.8 - 8.9)

! Per lavorazioni o materiali diversi (alluminio), richiedere quotazione specifica

SPALLE LEGGERE - 2 SIDES TOMBSTONES LIGHT
Art. 55A1


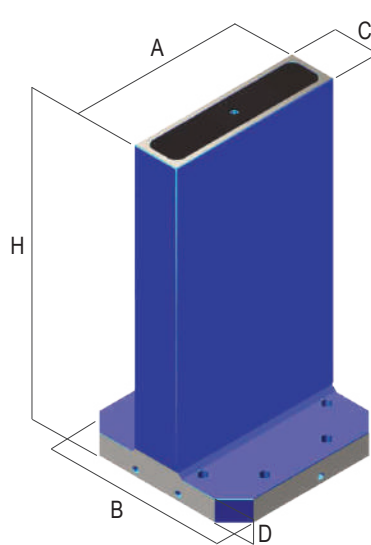
General tolerance +12 / -5 mm

Dimensioni - Dimensions

A	B	C	D	E	H	kg	Cod.	€
410	410	110	60	25	760	204	8.55.A10045	1.255
410	410	160	60	25	860	250	8.55.A10050	1.537
510	510	160	60	25	760	292	8.55.A10053	1.794
510	510	210	60	30	910	436	8.55.A10085	2.555
640	640	210	60	30	960	574	8.55.A10172	3.526
640	640	260	60	35	960	666	8.55.A10175	4.091

E= Spessore pareti - Wall thickness

Art. 55B1

 Base finita
 Base finished


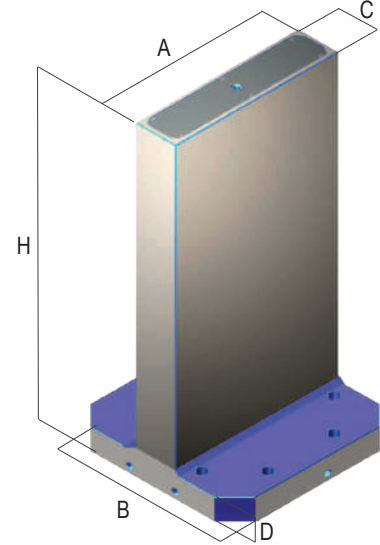
General tolerance +12 / -5 mm

Dimensioni - Dimensions

A	B	C	D	E	H	kg	Cod.	€
410	400	110	55	25	750	193	8.55.B10045	2.111
410	400	160	55	25	850	239	8.55.B10050	2.343
510	500	160	55	25	750	277	8.55.B10053	2.757
510	500	210	55	30	900	402	8.55.B10085	3.531
640	630	210	55	30	950	553	8.55.B10172	4.753
640	630	260	55	35	950	645	8.55.B10175	5.330

E= Spessore pareti - Wall thickness

Art. 55C1*

 Completamente lavorati
 Completely machined


General tolerance ± 0,02 mm

Dimensioni - Dimensions

A	B	C	D	E	H	kg	Cod.	€
400	400	100	50	20	750	163	8.55.C10045	2.471
400	400	150	50	20	850	203	8.55.C10050	2.926
500	500	150	50	20	750	238	8.55.C10053	3.265
500	500	200	50	25	900	371	8.55.C10085	4.261
630	630	200	50	25	950	489	8.55.C10172	5.614
630	630	250	50	30	950	579	8.55.C10175	6.273

E= Spessore pareti - Wall thickness

Specifiche - Specifications
Art. 55A1

Fusione in ghisa G30 monoblocco con doppio trattamento di distensione.

Pareti con spessore ridotto
 (Sovrametallo 15 mm).

One integral G30 cast iron casting with double stress relieving heat treatment.

Wall with reduced thickness
 (15 mm stock)

Art. 55B1

 Fusione con base lavorata e raschiata per pallet a norme Europee o Giapponesi. **Vedi specifiche a pag. 8.6**

Casting with base face machined and hand scraped for direct clamping on European or Japanese standard pallet.

See specifications pag. 8.6

 Per garantire la compatibilità con le prossime forniture Finire il cubo consultando **quota A versione C**

 To guarantee compatibility with future supplies Finish the cube checking **Dimension A Version C**
Art. 55C1

 Cubo completamente finito con **pareti di spessore ridotto**

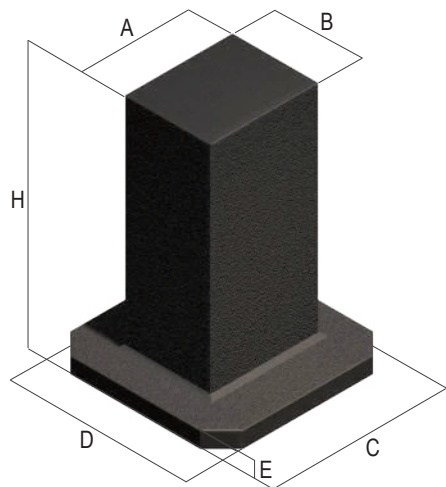
 Cube completely finished with **wall reduced thickness**

Predisposizione, montaggio ed allineamento di ogni morsa €227

Set-up, mounting and alignment for each vise €227

Available also as wall thickness 38-40mm (Pag.8.8 - 8.9)

! For different finishing and materials (aluminium), ask for specific quotation

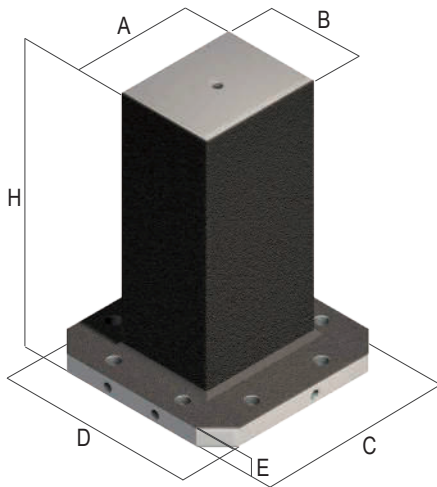
CUBI RETTANGOLARI - RECTANGULAR CUBES
Art. 54A


General tolerance +12 / -5 mm

Dimensioni - Dimensions

A	B	C	D	E	H	kg	Cod.	€
310	210	460	310	50	370	142	8.54.A00010	909
360	260	410	410	50	560	241	8.54.A00040	1.694
360	260	510	510	50	760	344	8.54.A00070	2.200
310	210	410	410	50	560	206	8.54.A00080	1.318
460	360	640	640	50	560	397	8.54.A00100	2.537
460	360	640	640	50	660	450	8.54.A00110	2.876
560	360	640	640	50	660	484	8.54.A00120	3.093

Art. 54B

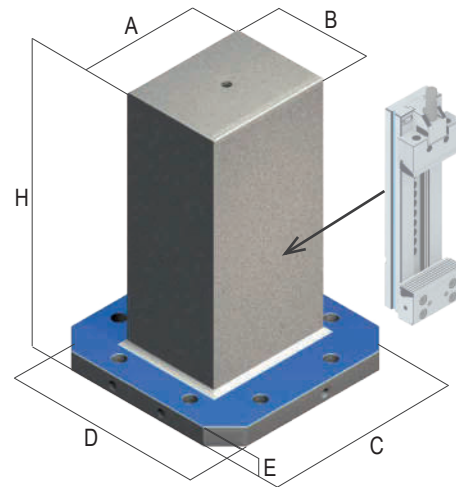
 Base finita
 Base finished


General tolerance +12 / -5 mm

Dimensioni - Dimensions

A	B	C	D	E	H	kg	Cod.	€
310	210	450	300	45	360	134	8.54.B00010	1.334
360	260	400	400	45	550	230	8.54.B00040	2.372
360	260	500	500	45	750	329	8.54.B00070	3.077
310	210	400	400	45	550	196	8.54.B00080	1.844
460	360	630	630	45	550	375	8.54.B00100	3.551
460	360	630	630	45	650	428	8.54.B00110	4.025
560	360	630	630	45	650	461	8.54.B00120	4.331

Art. 54C

 Completamente lavorati
 Completely machined


General tolerance ± 0,02 mm

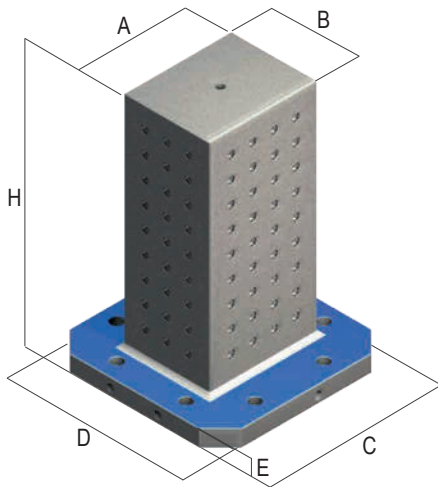
Dimensioni - Dimensions

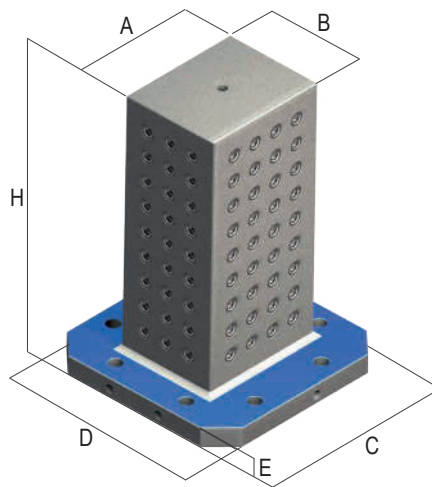
A	B	C	D	E	H	kg	Cod.	€
300	200	450	300	40	360	127	8.54.C00010	2.698
350	250	400	400	40	550	205	8.54.C00040	3.453
350	250	500	500	40	750	292	8.54.C00070	4.398
300	200	400	400	40	550	174	8.54.C00080	2.976
450	350	630	630	40	550	336	8.54.C00100	5.071
450	350	630	630	40	650	340	8.54.C00110	5.749
550	350	630	630	40	650	413	8.54.C00120	6.183

Modelli normalmente presenti a magazzino

! Per lavorazioni o materiali diversi (alluminio), richiedere quotazione specifica

CUBI RETTANGOLARI - RECTANGULAR CUBES
Art. 54E

 Reticolo integrale
 Grid cube

Art. 54F

 Reticolo con bussole
 Grid cube with bushing

 Stesse dimensioni dell'Art. 54C / Same dimensions of Art. 54C
 Peso: -5% circa rispetto Art. 54C / Weight: About -5% of Art. 54C

Specifiche - Specifications
Art. 54A

 Fusione in ghisa G30 monoblocco con doppio trattamento di distensione.
 Pareti con spessore 48-50 mm
 (Sovrametallo 15 mm)

 One integral G30 cast iron casting with double stress relieving heat treatment.
 Wall thickness 48-50 mm
 (15 mm stock)

Art. 54B

 Fusione con base lavorata e raschiata per pallet a norme Europee o Giapponesi. **Vedi specifiche a pag. 8.6**

 Casting with base face machined and hand scraped for direct clamping on European or Japanese standard pallet. **See specifications pag. 8.6**

 Per garantire la compatibilità con le prossime forniture
 Finire il cubo consultando **quota A versione C**
 To guarantee compatibility with future supplies
 Finish the cube checking **Dimension A Version C**
Art. 54C

Cubo completamente finito con pareti spessore 38-40 mm circa.

Cube completely finished with wall thickness roughly 38-40 mm

Predisposizione, montaggio ed allineamento di ogni morsa €227

Set-up, mounting and alignment for each vise €227

Art. 54E 40 / 50

 Cubo rettangolare a reticolo con fori calibrati e filettati integrali - Tolleranza $\pm 0,02$ mm

- Interasse reticolo 40 mm = $\varnothing 12$ / M10
- Interasse reticolo 50 mm = $\varnothing 16$ / M12

 Grid rectangular cube with calibrated holes and solid threads - Tolerance $\pm 0,02$ mm

- Grid pitch 40 mm = $\varnothing 12$ / M10
- Grid pitch 50 mm = $\varnothing 16$ / M12

 Montaggio ed allineamento di ogni morsa €114
 Mounting and alignment for each vise €114

Art. 54F 40 / 50

 Cubo rettangolare a reticolo con bussole temprate 100Cr6 e filetti riportati in acciaio inox
 Tolleranza $\pm 0,02$ mm

- Interasse reticolo 40 mm = $\varnothing 12$ / M10
- Interasse reticolo 50 mm = $\varnothing 16$ / M12

 Grid rectangular cube with hardened bushing 100Cr6 and stainless steel helicoils
 Tolleranza $\pm 0,02$ mm

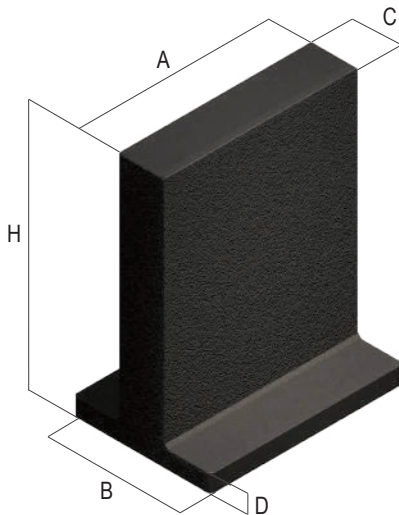
- Grid pitch 40 mm = $\varnothing 12$ / M10
- Grid pitch 50 mm = $\varnothing 16$ / M12

 Montaggio ed allineamento di ogni morsa €114
 Mounting and alignment for each vise €114

Art. 54E 40		Art. 54E 50		Art. 54F 40		Art. 54F 50	
Cod.	€	Cod.	€	Cod.	€	Cod.	€
8.54.E40010	3.226	8.54.E00010	3.032	8.54.F40010	3.425	8.54.F00010	3.115
8.54.E40040	5.281	8.54.E00040	4.488	8.54.F40040	6.095	8.54.F00040	5.078
8.54.E40070	6.855	8.54.E00070	5.713	8.54.F40070	7.910	8.54.F00070	6.590
8.54.E40080	4.308	8.54.E00080	3.588	8.54.F40080	4.831	8.54.F00080	4.026
8.54.E40100	7.911	8.54.E00100	6.591	8.54.F40100	9.128	8.54.F00100	7.608
8.54.E40110	8.967	8.54.E00110	7.472	8.54.F40110	10.346	8.54.F00110	8.622
8.54.E40120	9.643	8.54.E00120	8.038	8.54.F40120	11.128	8.54.F00120	9.273

Usually available immediately

! For different finishing and materials (aluminium), ask for specific quotation

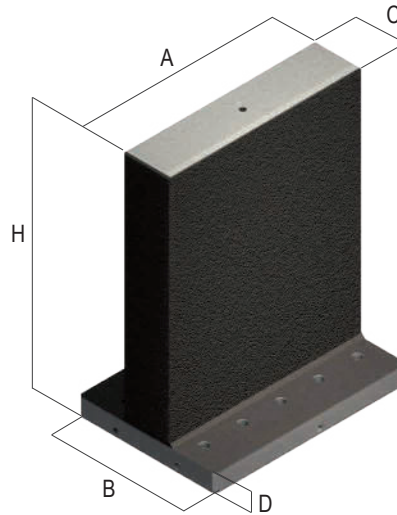
SPALLE - 2 SIDES TOMBSTONES
Art. 55A


General tolerance +12/ -5 mm

Dimensioni - Dimensions

A	B	C	D	H	kg	Cod.	€
170	210	80	55	235	31	8.55.A00010	201
360	260	90	60	425	124	8.55.A00040	795
310	450	160	60	310	124	8.55.A00044	845
310	450	160	60	640	199	8.55.A00045	1.446
410	360	110	60	535	221	8.55.A00050	1.414
410	410	160	60	510	215	8.55.A00051	1.375
410	410	160	55	670	262	8.55.A00052	1.674
510	510	160	55	710	350	8.55.A00053	2.238
510	510	210	60	610	340	8.55.A00054	2.174
510	510	270	50	635	360	8.55.A00055	2.302
460	360	110	60	535	241	8.55.A00060	1.541
460	360	110	60	630	283	8.55.A00070	1.810
560	360	110	70	660	368	8.55.A00080	2.353
510	360	160	60	660	307	8.55.A00090	1.963
460	360	160	60	620	289	8.55.A00120	1.848
460	360	160	60	760	316	8.55.A00125	2.020
560	360	160	70	680	352	8.55.A00150	2.249
560	460	160	60	830	430	8.55.A00160	2.748
640	460	160	60	830	486	8.55.A00170	3.106
640	460	260	70	910	589	8.55.A00171	3.746
640	640	210	60	870	579	8.55.A00172	3.699
640	640	260	60	710	521	8.55.A00173	3.329
360	460	160	70	660	250	8.55.A00180	1.598
810	460	160	70	860	632	8.55.A00190	4.146
810	810	210	60	1010	855	8.55.A00192	5.461
1210	860	260	70	1310	1572	8.55.A00230	9.993
1260	1260	410	45	1510	2224	8.55.A00235	14.084

Art. 55B

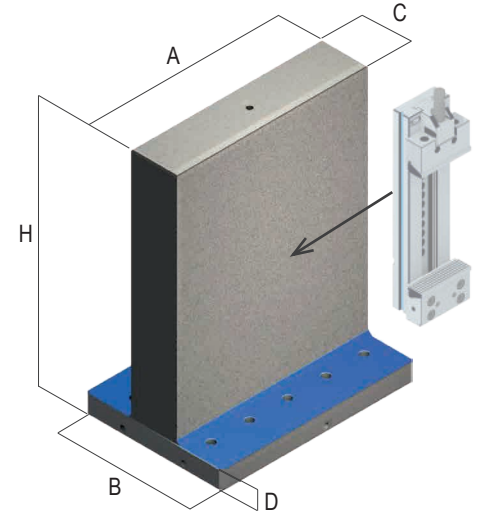
 Base finita
 Base finished


General tolerance +12/ -5 mm

Dimensioni - Dimensions

A	B	C	D	H	kg	Cod.	€
170	200	80	50	225	29	8.55.B00010	668
360	250	90	55	415	114	8.55.B00040	1.133
310	440	160	55	300	114	8.55.B00044	1.167
310	440	160	55	630	192	8.55.B00045	2.049
410	350	110	55	525	207	8.55.B00050	1.978
410	400	160	55	500	199	8.55.B00051	1.925
410	400	160	50	660	244	8.55.B00052	2.345
510	500	160	50	700	331	8.55.B00053	3.131
510	500	210	55	600	316	8.55.B00054	3.042
510	500	270	45	625	336	8.55.B00055	3.221
460	350	110	55	525	227	8.55.B00060	2.155
460	350	110	55	620	267	8.55.B00070	2.533
560	350	110	65	650	350	8.55.B00080	3.292
510	350	160	55	650	289	8.55.B00090	2.746
460	350	160	55	610	271	8.55.B00120	2.586
460	350	160	55	750	297	8.55.B00125	2.827
560	350	160	65	670	332	8.55.B00150	3.149
560	450	160	55	820	406	8.55.B00160	3.845
640	450	160	55	820	460	8.55.B00170	4.347
640	450	260	65	900	564	8.55.B00171	5.240
640	630	210	55	850	545	8.55.B00172	5.178
640	630	260	55	700	485	8.55.B00173	4.658
360	450	160	65	650	232	8.55.B00180	2.238
810	450	160	65	850	604	8.55.B00190	5.805
810	800	210	55	1000	820	8.55.B00192	7.645
1210	850	260	65	1300	1506	8.55.B00230	14.447
1260	1250	410	40	1500	-	8.55.A00235	19.724

Art. 55C

 Completamente lavorati
 Completely machined


General tolerance ± 0,02 mm

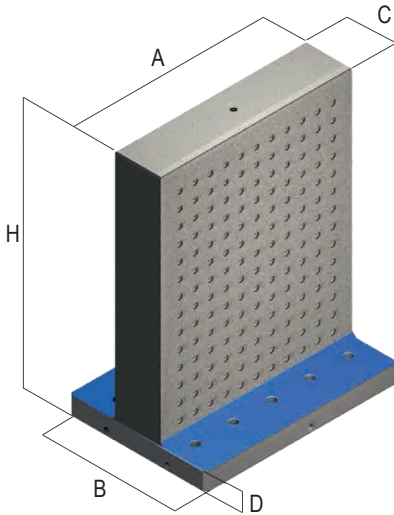
Dimensioni - Dimensions

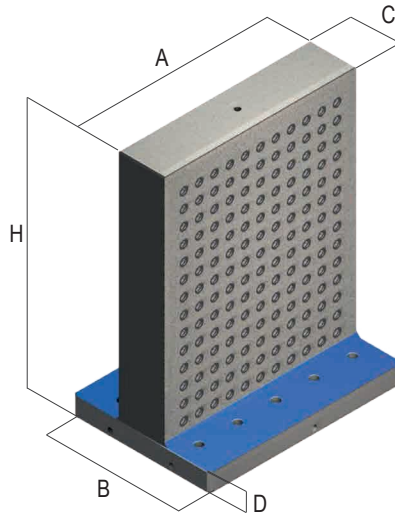
A	B	C	D	H	kg	Cod.	€
160	200	70	45	225	24	8.55.C00010	1.586
350	250	80	50	415	103	8.55.C00040	1.975
300	440	150	50	300	109	8.55.C00044	2.031
300	440	150	50	630	185	8.55.C00045	2.826
400	350	100	50	525	190	8.55.C00050	2.880
400	400	150	50	500	193	8.55.C00051	2.801
400	400	150	45	660	222	8.55.C00052	3.348
500	500	150	45	700	290	8.55.C00053	4.473
500	500	200	50	600	287	8.55.C00054	4.344
500	500	260	40	625	310	8.55.C00055	4.599
450	350	100	50	525	208	8.55.C00060	3.139
450	350	100	50	620	245	8.55.C00070	3.615
550	350	100	60	650	321	8.55.C00080	4.702
500	350	150	50	650	263	8.55.C00090	3.924
450	350	150	50	610	250	8.55.C00120	3.694
450	350	150	50	750	271	8.55.C00125	4.038
550	350	150	60	670	303	8.55.C00150	4.497
550	450	150	50	820	369	8.55.C00160	5.492
630	450	150	50	820	418	8.55.C00170	6.208
630	450	250	60	900	513	8.55.C00171	7.486
630	630	200	50	850	504	8.55.C00172	7.396
630	630	250	50	700	447	8.55.C00173	6.655
350	450	150	60	650	213	8.55.C00180	3.350
800	450	150	60	850	548	8.55.C00190	8.291
800	800	200	50	1000	814	8.55.C00192	10.920
1200	850	250	60	1300	1374	8.55.C00230	20.466
1250	1250	400	40	1500	-	8.55.C00235	28.179

Modelli normalmente presenti a magazzino

! Per lavorazioni o materiali diversi (alluminio), richiedere quotazione specifica

SPALLE - 2 SIDES TOMBSTONES
Art. 55E

 Reticolo integrale
 Grid tombstone

Art. 55F

 Reticolo con bussole
 Grid tombstone with bushing

 Stesse dimensioni dell'Art. 55C / Same dimensions of Art. 55C
 Peso: -5% circa rispetto Art. 55C / Weight: About -5% of Art. 55C

Specifiche - Specifications
Art. 55A

 Fusione in ghisa G30 monoblocco con doppio trattamento di distensione.
 Pareti con spessore 48-50 mm (Sovrametallo 15 mm)

 One integral G30 cast iron casting with double stress relieving heat treatment.
 Wall thickness 48-50 mm (15 mm stock)

Art. 55B

 Fusione con base lavorata e raschiata per pallet a norme Europee o Giapponesi. **Vedi specifiche a pag. 8.6**

 Casting with base face machined and hand scraped for direct clamping on European or Japanese standard pallet. **See specifications pag. 8.6**

 Per garantire la compatibilità con le prossime forniture Finire il cubo consultando **quota A versione C**
 To guarantee compatibility with future supplies Finish the cube checking **Dimension A Version C**
Art. 55C

Spalla completamente finito con pareti spessore 38-40 mm circa.

2 sides tombstone completely finished with wall thickness roughly 38-40 mm

 Predisposizione, montaggio ed allineamento di ogni morsa €227
 Set-up, mounting and alignment for each vise €227

Art. 55E 40 / 50

Spalla a reticolo con fori calibrati e filettati integrali - Tolleranza ± 0,02 mm

- Interasse reticolo 40 mm = Ø 12 / M10
- Interasse reticolo 50 mm = Ø 16 / M12

2 sides grid tombstone with calibrated holes and solid threads - Tolerance ± 0,02 mm

- Grid pitch 40 mm = Ø 12 / M10
- Grid pitch 50 mm = Ø 16 / M12

 Montaggio ed allineamento di ogni morsa €114
 Mounting and alignment for each vise €114

Art. 55F 40 / 50

 Spalla a reticolo con bussole temprate 100Cr6 e filetti riportati in acciaio inox
 Tolleranza ± 0,02 mm

- Interasse reticolo 40 mm = Ø 12 / M10
- Interasse reticolo 50 mm = Ø 16 / M12

 2 sides grid tombstone with hardened bushing 100Cr6 and stainless steel helicoils
 Tolerance ± 0,02 mm

- Grid pitch 40 mm = Ø 12 / M10
- Grid pitch 50 mm = Ø 16 / M12

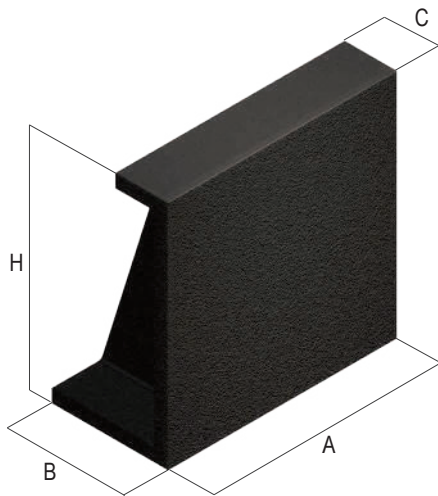
 Montaggio ed allineamento di ogni morsa €114
 Mounting and alignment for each vise €114

 Disponibili in versione leggera (Pag.8.10 - 8.11)
 Available also as light version (Pag.8.10 - 8.11)

Art. 55E 40		Art. 55E 50		Art. 55F 40		Art. 55F 50	
Cod.	€	Cod.	€	Cod.	€	Cod.	€
8.55.E40010	1.669	8.55.E00010	1.613	8.55.F40010	1.669	8.55.F00010	1.641
8.55.E40040	2.592	8.55.E00040	2.281	8.55.F40040	2.908	8.55.F00040	2.493
8.55.E40044	2.521	8.55.E00044	2.275	8.55.F40044	2.891	8.55.F00044	2.458
8.55E40045	3.108	8.55E00045	3.613	8.55F40045	4.818	8.55F00045	4.096
8.55.E40050	4.406	8.55.E00050	3.671	8.55.F40050	5.083	8.55.F00050	4.236
8.55.E40051	4.286	8.55.E00051	3.573	8.55.F40051	4.944	8.55.F00051	4.120
8.55.E40052	5.222	8.55.E00052	4.351	8.55.F40052	6.026	8.55.F00052	5.020
8.55.E40053	6.975	8.55.E00053	5.813	8.55.F40053	8.047	8.55.F00053	6.707
8.55.E40054	6.776	8.55.E00054	5.646	8.55.F40054	7.818	8.55.F00054	6.515
8.55.E40055	7.173	8.55.E00055	5.979	8.55.F40055	8.277	8.55.F00055	6.899
8.55.E40060	4.803	8.55.E00060	4.080	8.55.F40060	5.543	8.55.F00060	4.620
8.55.E40070	5.641	8.55.E00070	4.700	8.55.F40070	6.508	8.55.F00070	5.422
8.55.E40080	7.334	8.55.E00080	6.110	8.55.F40080	8.461	8.55.F00080	7.052
8.55.E40090	6.119	8.55.E00090	5.100	8.55.F40090	7.058	8.55.F00090	5.882
8.55.E40120	5.759	8.55.E00120	4.800	8.55.F40120	6.644	8.55.F00120	5.538
8.55.E40125	6.297	8.55.E00125	5.248	8.55.F40125	7.267	8.55.F00125	6.056
8.55.E40150	7.014	8.55.E00150	5.845	8.55.F40150	8.092	8.55.F00150	6.744
8.55.E40160	8.568	8.55.E00160	7.141	8.55.F40160	9.886	8.55.F00160	8.238
8.55.E40170	9.684	8.55.E00170	8.072	8.55.F40170	11.174	8.55.F00170	9.312
8.55.E40171	11.677	8.55.E00171	9.730	8.55.F40171	13.472	8.55.F00171	11.227
8.55.E40172	11.536	8.55.E00172	9.615	8.55.F40172	13.311	8.55.F00172	11.093
8.55.E40173	10.381	8.55.E00173	8.652	8.55.F40173	11.977	8.55.F00173	9.982
8.55.E40180	4.984	8.55.E00180	4.235	8.55.F40180	5.749	8.55.F00180	4.791
8.55.E40190	12.930	8.55.E00190	10.775	8.55.F40190	14.919	8.55.F00190	12.434
8.55.E40192	23.634	8.55.E00192	14.195	8.55.F40192	19.655	8.55.F00192	16.379
8.55.E40230	31.299	8.55.E00230	26.018	8.55.F40230	36.114	8.55.F00230	30.095
8.55.E40235	36.065	8.55.E00235	31.147	8.55.F40235	39.444	8.55.F00235	35.220

Usually available immediately

! For different finishing and materials (aluminium), ask for specific quotation

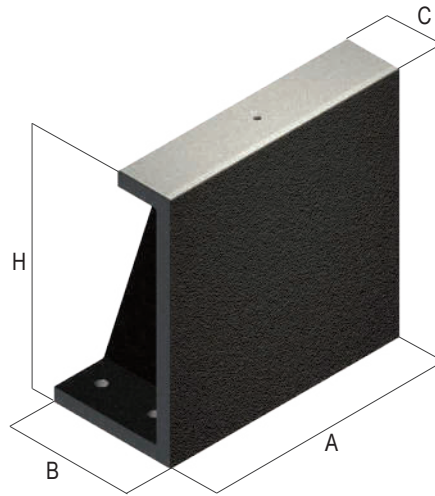
SQUADRE - ANGLES
Art. 56A


General tolerance +12 / +8 mm

Dimensioni - Dimensions

A	B	C	H	kg	Cod.	€
360	160	45	260	50	8.56.A00008	323
310	230	105	310	66	8.56.A00009	425
360	240	105	370	87	8.56.A00010	557
410	290	105	410	114	8.56.A00011	732
210	360	40	710	120	8.56.A00012	770
410	340	155	520	167	8.56.A00030	1.068
510	350	155	510	188	8.56.A00031	1.204
460	340	155	470	161	8.56.A00040	1.029
460	340	155	620	197	8.56.A00050	1.279
640	340	155	640	304	8.56.A00051	1.886
510	240	105	370	117	8.56.A00060	748
560	440	205	820	342	8.56.A00080	2.122
660	340	155	670	285	8.56.A00100	1.765
210	310	55	710	102	8.56.A00101	654
810	340	155	570	302	8.56.A00110	1.930
810	535	205	810	491	8.56.A00111	3.138
810	440	205	810	450	8.56.A00120	2.876
1025	510	90	1020	695	8.56.A00130	4.456
1025	620	90	1225	775	8.56.A00140	4.938
1810	835	143	1510	1794	8.56.A00150	10.591

Art. 56B

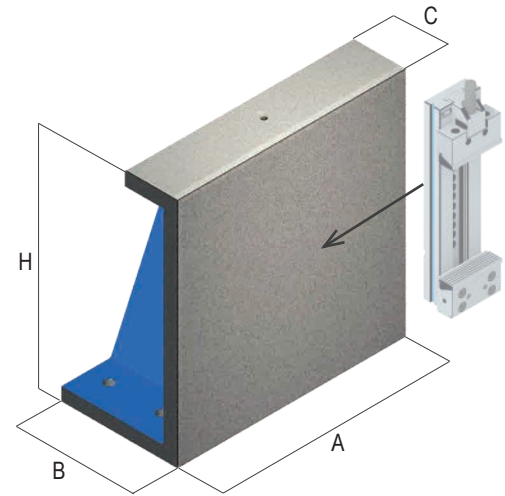
 Base finita
 Base finished


General tolerance +12 / +8 mm

Dimensioni - Dimensions

A	B	C	H	kg	Cod.	€
350	160	45	250	46	8.56.B00008	751
300	230	105	300	61	8.56.B00009	815
350	240	105	360	80	8.56.B00010	918
400	290	105	400	106	8.56.B00011	1.120
200	350	35	700	104	8.56.B00012	1.129
400	340	155	510	148	8.56.B00030	1.496
500	350	155	500	176	8.56.B00031	1.718
450	340	155	460	150	8.56.B00040	1.470
450	340	155	610	185	8.56.B00050	1.790
630	340	155	630	286	8.56.B00051	2.640
500	240	105	360	109	8.56.B00060	1151
550	440	205	810	324	8.56.B00080	2.970
650	340	155	660	269	8.56.B00100	2.791
200	310	55	700	96	8.56.B00101	974
800	340	155	560	294	8.56.B00110	2.703
800	535	205	800	464	8.56.B00111	4.390
800	440	205	800	427	8.56.B00120	4.025
1015	510	90	1010	668	8.56.B00130	6.262
1015	620	90	1215	1115	8.56.B00140	7.225
1810	835	143	1500	-	8.56.B00150	14.823

Art. 56C

 Completamente lavorati
 Completely machined


General tolerance ± 0,02 mm

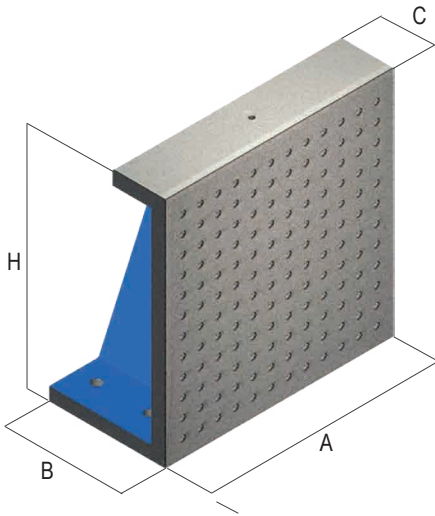
Dimensioni - Dimensions

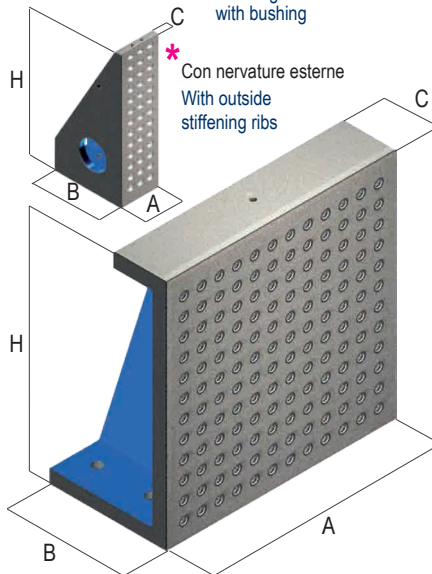
A	B	C	H	kg	Cod.	€
350	150	40	250	42	8.56.C00008	1.669
300	220	100	300	57	8.56.C00009	1.753
350	230	100	360	75	8.56.C00010	1.836
400	280	100	400	100	8.56.C00011	1.940
200	350	35	700	100	8.56.C00012	1.975
400	330	150	510	140	8.56.C00030	2.239
500	340	150	500	166	8.56.C00031	2.520
450	330	150	460	142	8.56.C00040	2.258
450	330	150	610	174	8.56.C00050	2.606
630	330	150	630	270	8.56.C00051	3.770
500	230	100	360	107	8.56.C00060	2.086
550	430	200	810	252	8.56.C00080	4.243
650	330	150	660	245	8.56.C00100	3.988
200	300	50	700	90	8.56.C00101	2.003
800	330	150	560	266	8.56.C00110	3.933
800	525	200	800	452	8.56.C00111	6.273
800	430	200	800	402	8.56.C00120	5.749
1015	500	85	1010	629	8.56.C00130	8.910
1015	610	85	1215	695	8.56.C00140	10.234
1800	825	138	1500	-	8.56.C00150	21.179

Modelli normalmente presenti a magazzino

! Per lavorazioni o materiali diversi (alluminio), richiedere quotazione specifica

SQUADRE - ANGLES
Art. 56E

 Reticolo integrale
 Grid angle

Art. 56F

 Reticolo con bussole
 Grid angle
 with bushing

 Stesse dimensioni dell'Art. 56C / Same dimensions of Art. 56C
 Peso: -5% circa rispetto Art. 56C / Weight: About -5% of Art. 56C

Specifiche - Specifications
Art. 56A

 Fusione in ghisa G30 monoblocco con doppio trattamento di distensione.
 Pareti con spessore 48-50 mm
 (Sovrametallo 15 mm)

 One integral G30 cast iron casting with double stress relieving heat treatment.
 Wall thickness 48-50 mm
 (15 mm stock)

Art. 56B

 Fusione con base lavorata e raschiata per pallet a norme Europee o Giapponesi. **Vedi specifiche a pag. 8.6**
 Casting with base face machined and hand scraped for direct clamping on European or Japanese standard pallet. **See specifications pag. 8.6**

 Per garantire la compatibilità con le prossime forniture
 Finire il cubo consultando **quota A versione C**
 To guarantee compatibility with future supplies
 Finish the cube checking **Dimension A Version C**
Art. 56C

Squadra completamente finita con pareti spessore 38-40 mm circa.

Angle completely finished with wall thickness roughly 38-40 mm

 Predisposizione, montaggio ed allineamento di ogni morsa €227
 Set-up, mounting and alignment for each vise €227

Art. 56E 40 / 50

Squadra a reticolo con fori calibrati e filettati integrali - Tolleranza ± 0,02 mm

- Interasse reticolo 40 mm = Ø 12 / M10
- Interasse reticolo 50 mm = Ø 16 / M12

Grid angle with calibrated holes and solid threads - Tolerance ± 0,02 mm

- Grid pitch 40 mm = Ø 12 / M10
- Grid pitch 50 mm = Ø 16 / M12

 Montaggio ed allineamento di ogni morsa €114
 Mounting and alignment for each vise €114

Art. 56F 40 / 50

 Squadra a reticolo con bussole temprate 100Cr6 e filetti riportati in acciaio inox
 Tolleranza ± 0,02 mm

- Interasse reticolo 40 mm = Ø 12 / M10
- Interasse reticolo 50 mm = Ø 16 / M12

 Grid angle with hardened bushing 100Cr6 and stainless steel helicoils
 Tolerance ± 0,02 mm

- Grid pitch 40 mm = Ø 12 / M10
- Grid pitch 50 mm = Ø 16 / M12

 Montaggio ed allineamento di ogni morsa €114
 Mounting and alignment for each vise €114

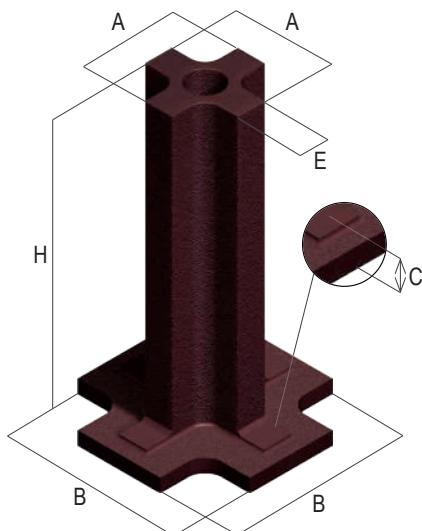
Art. 56E 40		Art. 56E 50		Art. 56F 40		Art. 56F 50	
Cod.	€	Cod.	€	Cod.	€	Cod.	€
8.56.E40008	1.753	8.56.E00008	1.753	8.56.F40008	1.780	8.56.F00008	1.780
8.56.E40009	1.864	8.56.E00009	1.836	8.56.F40009	1.911	8.56.F00009	1.836
8.56.E40010	2.003	8.56.E00010	1.950	8.56.F40010	2.102	8.56.F00010	1.997
8.56.E40011	2.384	8.56.E00011	2.170	8.56.F40011	2.673	8.56.F00011	2.292
8.56.E40012	2.440	8.56.E00012	2.189	8.56.F40012	2.761	8.56.F00012	2.347
8.56.E40030	3.329	8.56.E00030	2.830	8.56.F40030	3.841	8.56.F00030	3.201
8.56.E40031	3.749	8.56.E00031	3.184	8.56.F40031	4.323	8.56.F00031	3.604
8.56.E40040	3.209	8.56.E00040	2.729	8.56.F40040	3.703	8.56.F00040	3.086
8.56.E40050	3.988	8.56.E00050	3.321	8.56.F40050	4.599	8.56.F00050	3.833
8.56.E40051	5.879	8.56.E00051	4.899	8.56.F40051	6.783	8.56.F00051	5.652
8.56.E40060	2.447	8.56.E00060	2.253	8.56.F40060	2.744	8.56.F00060	2.353
8.56.E40080	6.616	8.56.E00080	5.515	8.56.F40080	7.633	8.56.F00080	6.362
8.56.E40100	6.219	8.56.E00100	5.181	8.56.F40100	7.173	8.56.F00100	5.979
8.56.E40101	2.253	8.56.E00101	2.170	8.56.F40101	2.461	8.56.F00101	2.197
8.56.E40110	6.017	8.56.E00110	5.016	8.56.F40110	6.944	8.56.F00110	5.787
8.56.E40111	9.784	8.56.E00111	8.153	8.56.F40111	11.289	8.56.F00111	9.407
8.56.E40120	8.967	8.56.E00120	7.472	8.56.F40120	10.346	8.56.F00120	8.622
8.56.E40130	13.845	8.56.E00130	10.836	8.56.F40130	15.650	8.56.F00130	13.243
8.56.E40140	16.855	8.56.E00140	13.845	8.56.F40140	19.263	8.56.F00140	16.253
8.56.E40150	27.113	8.56.E00150	24.357	8.56.F40150	29.646	8.56.F00150	26.473

Usually available immediately

! For different finishing and materials (aluminium), ask for specific quotation

CUBI A CROCE - CROSS CUBES

Art. 57A



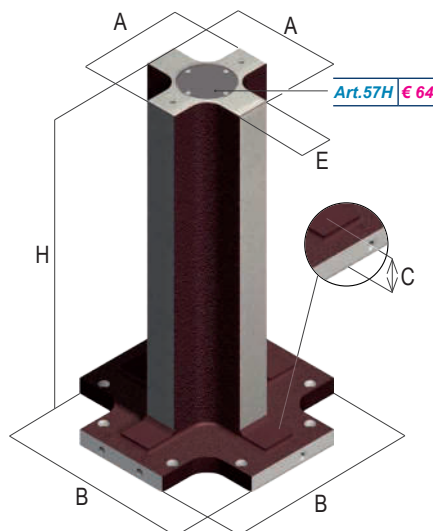
General tolerance +12 / -5 mm

Dimensioni - Dimensions

A	B	C	E	H	kg	Cod.	€
210	510	55	80	760	172	8.57.A00100	1.101
210	510	55	80	660	156	8.57.A00105	1.163
260	510	55	80	760	212	8.57.A00106	1.356
280	510	55	80	860	254	8.57.A00110	1.605

Art. 57B

Base finita
Base finished



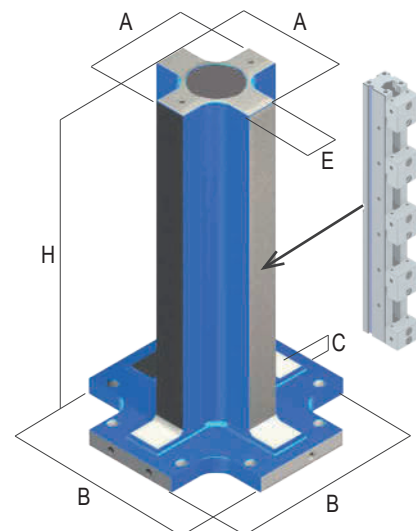
General tolerance +12 / -5 mm

Dimensioni - Dimensions

A	B	C	E	H	kg	Cod.	€
210	500	50	80	750	157	8.57.B00100	1.766
210	500	50	80	650	142	8.57.B00105	1.694
260	500	50	80	750	197	8.57.B00106	1.935
280	500	50	80	850	242	8.57.B00110	2.126

Art. 57C

Completamente lavorati
Completely machined

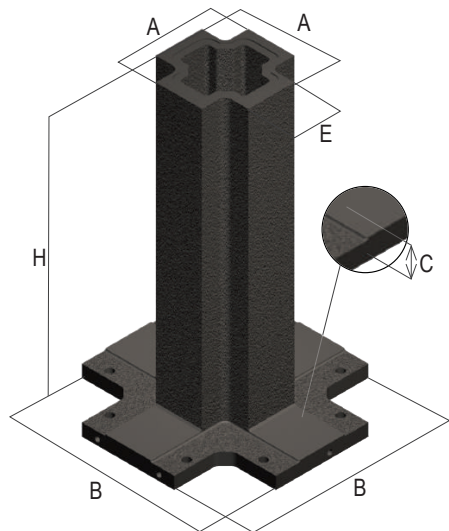


General tolerance ± 0,02 mm

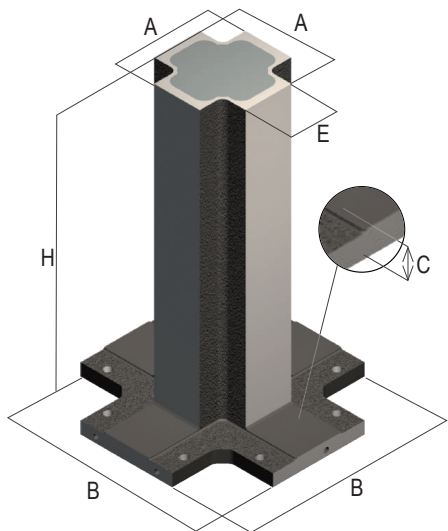
Dimensioni - Dimensions

A	B	C	E	H	kg	Cod.	€
200	500	45	80	750	154	8.57.C00100	2.531
200	500	45	80	650	140	8.57.C00105	2.476
250	500	45	80	750	194	8.57.C00106	2.726
270	500	45	80	850	240	8.57.C00110	3.027

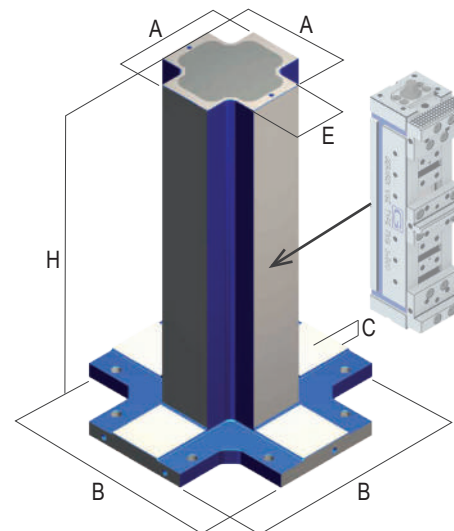
8



240	510	55	110	860	237	8.57.A00120	1.515
310	510	55	150	860	291	8.57.A00130	1.860
310	640	55	150	960	357	8.57.A00140	2.280
380	510	55	200	960	419	8.57.A00145	2.678
410	510	60	100	865	254	8.57.A00150	1.516
1010	1260	80	610	910	1711	8.57.A00250	10.886



240	500	50	110	850	218	8.57.B00120	2.049
310	500	50	150	850	269	8.57.B00130	2.466
310	630	50	150	950	327	8.57.B00140	2.790
380	500	50	200	950	400	8.57.B00145	3.276
410	500	55	100	855	241	8.57.B00150	2.049
1010	1250	75	610	900	1562	8.57.B00250	15.186

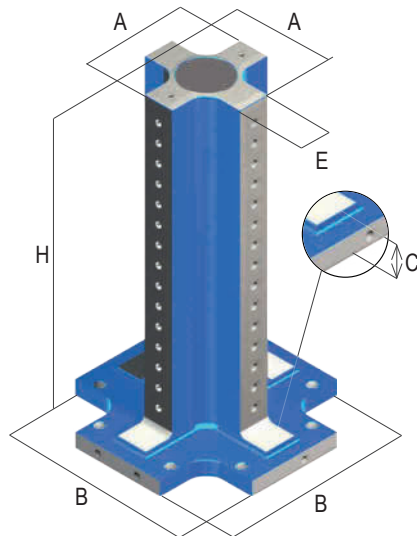


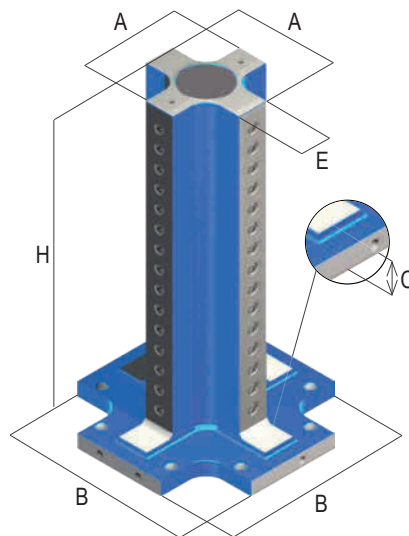
230	500	45	110	850	214	8.57.C00120	2.948
300	500	45	150	850	264	8.57.C00130	3.413
300	630	45	150	950	322	8.57.C00140	3.721
370	500	45	200	950	397	8.57.C00145	4.819
400	500	50	100	855	239	8.57.C00150	3.143
1000	1250	70	600	900	1554	8.57.C00250	20.625

Modelli normalmente presenti a magazzino

! Per lavorazioni o materiali diversi (alluminio), richiedere quotazione specifica

CUBI A CROCE - CROSS CUBES
Art. 57E

 Reticolo integrale
 Grid cube

Art. 57F

 Reticolo con bussole
 Grid cube with bushing

 Stesse dimensioni dell'Art. 57C / Same dimensions of Art. 57C
 Peso: -5% circa rispetto Art. 57C / Weight: About -5% of Art. 57C

Specifiche - Specifications
Art. 57A

 Fusione in ghisa G30 monoblocco con doppio trattamento di distensione.
 Pareti con spessore 48-50 mm
 (Sovrametallo 15 mm)

 One integral G30 cast iron casting with double stress relieving heat treatment.
 Wall thickness 48-50 mm
 (15 mm stock)

Art. 57B

 Fusione con base lavorata e raschiata per pallet a norme Europee o Giapponesi. **Vedi specifiche a pag. 8.6**

 Casting with base face machined and hand scraped for direct clamping on European or Japanese standard pallet. **See specifications pag. 8.6**

 Per garantire la compatibilità con le prossime forniture Finire il cubo consultando **quota A versione C**
 To guarantee compatibility with future supplies Finish the cube checking **Dimension A Version C**
Art. 57C

Cubo a croce completamente finito con pareti spessore 38-40 mm circa.

Crosscube completely finished with wall thickness roughly 38-40 mm

 Predisposizione, montaggio ed allineamento di ogni morsa €227
 Set-up, mounting and alignment for each vise €227

Art. 57E 40 / 50

 Cubo a croce a reticolo con fori calibrati e filettati integrali - Tolleranza $\pm 0,02$ mm

- Interasse reticolo 40 mm = $\emptyset 12 / M10$
- Interasse reticolo 50 mm = $\emptyset 16 / M12$

 Cross cube with calibrated holes and solid threads - Tolerance $\pm 0,02$ mm

- Grid pitch 40 mm = $\emptyset 12 / M10$
- Grid pitch 50 mm = $\emptyset 16 / M12$

 Montaggio ed allineamento di ogni morsa €114
 Mounting and alignment for each vise €114

Art. 57F 40 / 50

 Cubo a croce a reticolo con bussole temprate 100Cr6 e filetti riportati in acciaio inox
 Tolleranza $\pm 0,02$ mm

- Interasse reticolo 40 mm = $\emptyset 12 / M10$
- Interasse reticolo 50 mm = $\emptyset 16 / M12$

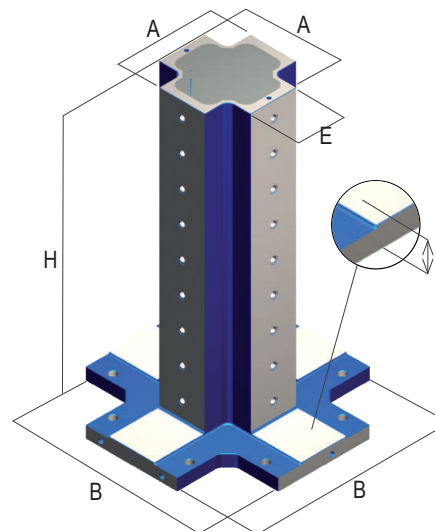
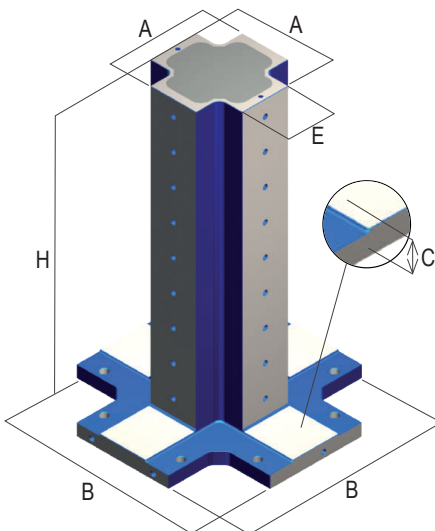
 Grid cross cube with hardened bushing 100Cr6 and stainless steel helicoils
 Tolerance $\pm 0,02$ mm

- Grid pitch 40 mm = $\emptyset 12 / M10$
- Grid pitch 50 mm = $\emptyset 16 / M12$

 Montaggio ed allineamento di ogni morsa €114
 Mounting and alignment for each vise €114

Art. 57E 40		Art. 57E 50	
Cod.	€	Cod.	€
8.57.E40100	2.781	8.57.E00100	2.754
8.57.E40105	2.806	8.57.E00105	2.670
8.57.E40106	3.178	8.57.E00106	2.948
8.57.E40110	3.761	8.57.E00110	3.282

Art. 57F 40		Art. 57F 50	
Cod.	€	Cod.	€
8.57.F40100	2.881	8.57.F00100	2.809
8.57.F40105	2.965	8.57.F00105	2.726
8.57.F40106	3.453	8.57.F00106	3.004
8.57.F40110	4.010	8.57.F00110	3.362



8.57.E40120	3.552	8.57.E00120	3.199
8.57.E40130	4.360	8.57.E00130	3.950
8.57.E40140	5.348	8.57.E00140	4.450
8.57.E40145	6.157	8.57.E00145	5.184
8.57.E40150	3.653	8.57.E00150	3.393
-	-	8.57.E00250	29.791

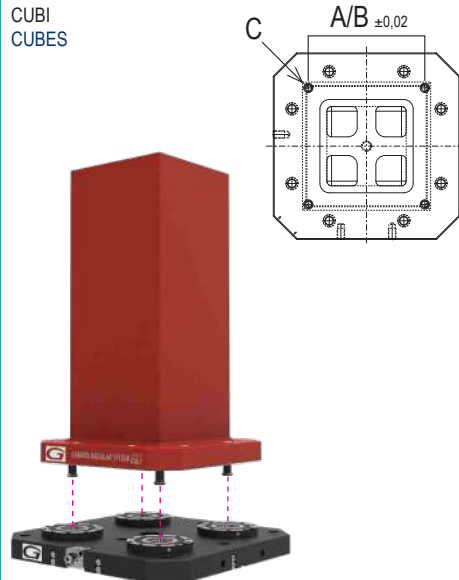
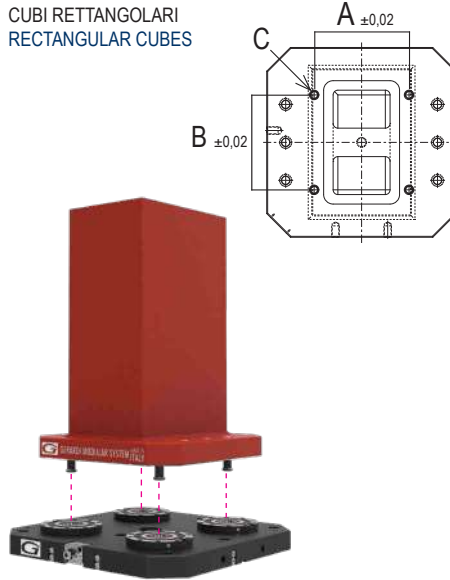
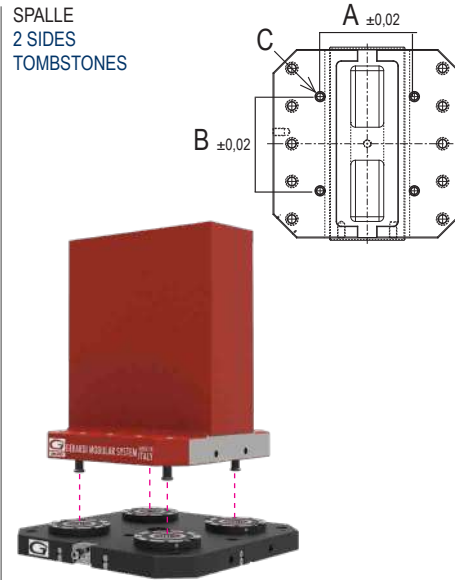
8.57.F40120	3.861	8.57.F00120	3.254
8.57.F40130	4.740	8.57.F00130	4.116
8.57.F40140	5.813	8.57.F00140	4.645
8.57.F40145	6.692	8.57.F00145	5.614
8.57.F40150	5.366	8.57.F00150	4.473
-	-	8.57.F00250	41.249

Usually available immediately

! For different finishing and materials (aluminium), ask for specific quotation

INTERFACCIAMENTO CUBI CON SISTEMA ZERO POINT

INTERFACE CUBES WITH ZERO POINT SYSTEM

 CUBI
 CUBES

 CUBI RETTANGOLARI
 RECTANGULAR CUBES

 SPALLE
 2 SIDES
 TOMBSTONES

Dimensioni - Dimensions

Codice Code	X	A	B	Tirante Pull-stud
8.53.X00009	B C E F	150	150	T2
8.53.X00020	B C E F	150	150	T2
8.53.X00030	B C E F	250	250	T2
8.53.X00040	B C E F	250	250	T2
8.53.X00045	B C E F	200	200	T2
8.53.X00050	B C E F	250	250	T2
8.53.X10055	B C E F	200	200	T2
8.53.X00060	B C E F	200	200	T2
8.53.X00070	B C E F	250	250	T2
8.53.X00080	B C E F	250	250	T2
8.53.X00081	B C E F	250	250	T2
8.53.X00082	B C E F	250	250	T2
8.53.X10085	B C E F	250	250	T2
8.53.X00090	B C E F	300	300	T2
8.53.X00100	B C E F	250	250	T2
8.53.X00105	B C E F	250	250	T2
8.53.X10105	B C E F	250	250	T2
8.53.X00106	B C E F	250	250	T2
8.53.X00107	B C E F	250	250	T2
8.53.X00110	B C E F	250	250	T2
8.53.X00111	B C E F	250	250	T2
8.53.X00113	B C E F	300	300	T2
8.53.X00115	B C E F	250	250	T2
8.53.X00120	B C E F	300	300	T2
8.53.X00140	B C E F	300	300	T2
8.53.X00150	B C E F	300	300	T2
8.53.X00160	B C E F	300	300	T2
8.53.X00170	B C E F	300	300	T2
8.53.X00171	B C E F	300	300	T2
8.53.X00172	B C E F	300	300	T2
8.53.X00180	B C E F	300	300	T2
8.53.X00181	B C E F	300	300	T2
8.53.X10182	B C E F	200	400	T2
8.53.X00185	B C E F	300	300	T2
8.53.X10185	B C E F	200	400	T2
8.53.X00190	B C E F	200	200	T2
8.53.X00200	B C E F	200	200	T2
8.53.X10205	B C E F	200	500	T2
8.53.X00211	B C E F	500	500	T2
8.53.X00220	B C E F	500	500	T2
8.53.X00230	B C E F	600	600	T2
8.53.X00235	B C E F	600	600	T2

Dimensioni - Dimensions

Codice Code	X	A	B	Tirante Pull-stud
8.54.X00010	B C E F	200	200	T2
8.54.X00040	B C E F	200	200	T2
8.54.X00070	B C E F	200	200	T2
8.54.X00080	B C E F	200	200	T2
8.54.X00100	B C E F	200	400	T2
8.54.X00110	B C E F	400	400	T2
8.54.X00120	B C E F	400	400	T2

Dimensioni - Dimensions

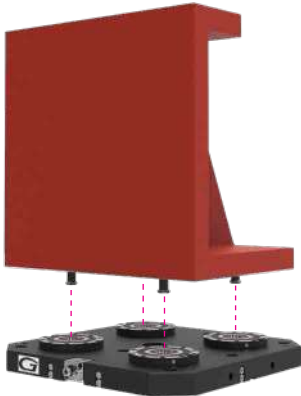
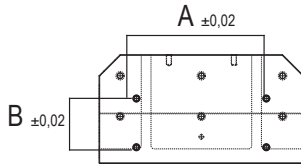
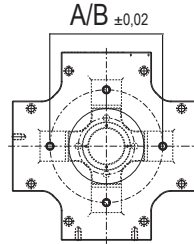
Codice Code	X	A	B	Tirante Pull-stud
8.55.X00010	B C E F	150	-	T2
8.55.X00040	B C E F	150	150	T2
8.55.X00044	B C E F	150	200	T2
8.55.X00045	B C E F	150	200	T2
8.55.X10045	B C E F	200	200	T2
8.55.X00050	B C E F	150	200	T2
8.55.X10050	B C E F	300	300	T2
8.55.X00051	B C E F	200	200	T2
8.55.X00052	B C E F	250	200	T2
8.55.X00053	B C E F	250	250	T2
8.55.X10053	B C E F	200	300	T2
8.55.X00054	B C E F	300	300	T2
8.55.X00055	B C E F	300	300	T2
8.55.X00060	B C E F	200	250	T2
8.55.X00070	B C E F	200	250	T2
8.55.X00080	B C E F	200	300	T2
8.55.X10085	B C E F	200	300	T2
8.55.X00090	B C E F	200	300	T2
8.55.X00120	B C E F	200	250	T2
8.55.X00125	B C E F	200	250	T2
8.55.X00150	B C E F	200	300	T2
8.55.X00160	B C E F	200	300	T2
8.55.X00170	B C E F	200	400	T2
8.55.X00171	B C E F	300	300	T2
8.55.X00172	B C E F	300	300	T2
8.55.X10172	B C E F	300	300	T2
8.55.X00173	B C E F	300	300	T2
8.55.X10175	B C E F	300	300	T2
8.55.X00180	B C E F	200	250	T2
8.55.X00190	B C E F	300	200	T2
8.55.X00191	B C E F	300	300	T2
8.55.X00192	B C E F	300	300	T2
8.55.X00230	B C E F	300	500	T2
8.55.X00235	B C E F	300	500	T2

Modelli leggeri - Light versions

X: Interfacciamento Zero-Point valido per tutte le versioni di cubi portapezzi

INTERFACCIAMENTO CUBI CON SISTEMA ZERO POINT

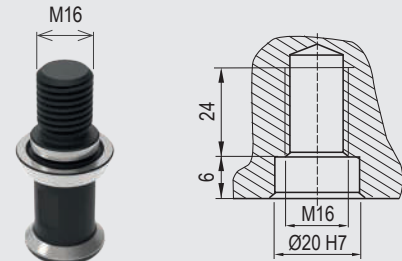
INTERFACE CUBES WITH ZERO POINT SYSTEM

 SQUADRE
 ANGLES

 CUBI A CROCE
 CROSS CUBES

Art. 81X

 Piastra speciale con
 Zero-Point disposti a
 croce.
 (sempre a richiesta)

 Special plate with Zero
 Point cross mounted
 (always on request)

Tiranti Zero point - Zero point pull-studs
TIRANTI TIPO 2 (T2)
PULL-STUD TYPE 2 (T2)

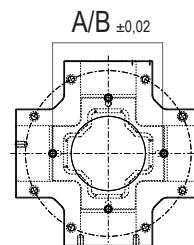
 Perno tirante di centraggio. Filetto maschio
 Centering pull-stud. Male thread

 Vedi pag. 9.40 - 9.42
 See pages 9.40 - 9.42

Dimensioni - Dimensions

Codice Code	X	A	B	Tirante Pull-stud
8.56.X00008	B C E F	200	-	T2
8.56.X00009	B C E F	200	-	T2
8.56.X00010	B C E F	200	-	T2
8.56.X00011	B C E F	200	200	T2
8.56.X00012	B C E F	200	-	T2
8.56.X00030	B C E F	200	300	T2
8.56.X00031	B C E F	200	300	T2
8.56.X00040	B C E F	200	300	T2
8.56.X00050	B C E F	200	300	T2
8.56.X00051	B C E F	150	400	T2
8.56.X00060	B C E F	150	400	T2
8.56.X00080	B C E F	200	400	T2
8.56.X00100	B C E F	200	400	T2
8.56.X00101	B C E F	200	-	T2
8.56.X00110	B C E F	200	400	T2
8.56.X00111	B C E F	200	400	T2
8.56.X00120	B C E F	200	400	T2
8.56.X00130	B C E F	300	500	T2
8.56.X00140	B C E F	300	500	T2
8.56.X00150	B C E F	300	500	T2

Dimensioni - Dimensions

Codice Code	X	A	B	Tirante Pull-stud
8.57.X00100	B C E F	300	300	T2
8.57.X00105	B C E F	300	300	T2
8.57.X00106	B C E F	300	300	T2
8.57.X00110	B C E F	300	300	T2

 CUBI A CROCE
 CROSS CUBES

Art. 81X

 Piastra speciale con
 Zero-Point disposti a
 croce.
 (sempre a richiesta)

 Special plate with Zero
 Point cross mounted
 (always on request)

8.57.X00120	B C E F	300	300	T2
8.57.X00130	B C E F	300	300	T2
8.57.X00140	B C E F	300	300	T2
8.57.X00145	B C E F	300	300	T2
8.57.X00150	B C E F	300	300	T2
8.57.X00250	B C E F	700	700	T2

Versioni disponibili X - Available versions X

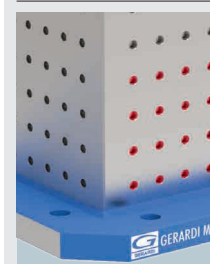
Versione B
Type B
BASE FINITA - BASE FINISHED

 Fusione con base lavorata
 e raschiata per pallet a norme
 Europee o Giapponesi.

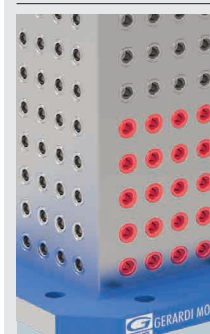
 Casting with base face
 machined and hand scraped for direct
 clamping on European or Japanese
 standard pallet.

Versione C
Type C
COMPLETAMENTE LAVORATI
COMPLETELY FINISHED

 Cubo completamente finito con pareti
 spessore 38-40 mm circa.
 Tolleranza ± 0,02 mm

 Cube completely finished with wall
 thickness roughly 38-40 mm.
 Tolerance ± 0,02 mm

Versione E
Type E
RETICOLO INTEGRALE - GRIND CUBE

 Cubo a reticolo con fori calibrati e filetti
 integrali nella fusione.
 Tolleranza ± 0,02 mm

 Integral cube with calibrated holes
 and solid threads in the casting itself.
 Tolerance ± 0,02 mm

Versione F
Type F
COMPLETAMENTE LAVORATI
COMPLETELY FINISHED

 Cubo a reticolo con bussole di centraggio
 in acciaio temprato 100 Cr6 DIN 179C.
 Filetti riportati in acciaio inox 18/8.
 Tolleranza 0,02 mm

 Integral cube with centering bushings in
 special hardened alloy steel 100Cr6 -
 DIN 179C. Inserted threads are in 18/8
 stainless steel. Tolerance ± 0,02 mm

X: Zero-Point interfaced available for all types of tombstones

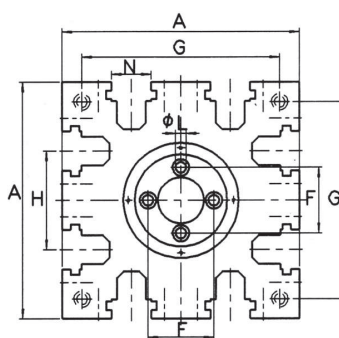
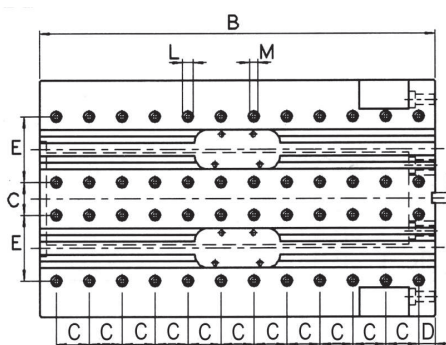
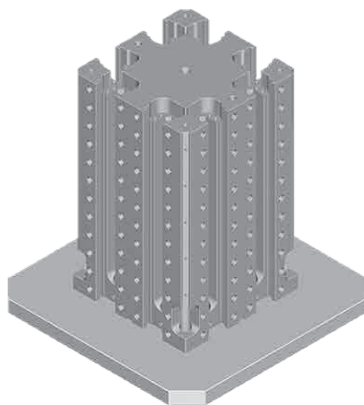
SISTEMA MODULARE MULTIPLO

MULTI-MODULAR SYSTEM

Dimensioni - Dimensions (mm)

Art. 840

 Cubo a reticolo - Corpo base
 In ghisa G600

 Grid cube - Base body
 In cast iron G600


> Non sgrassato di fresa - Not rough milled

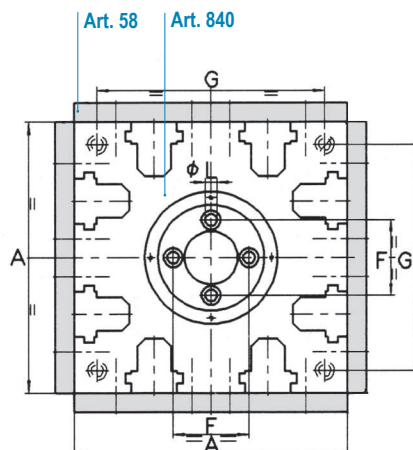
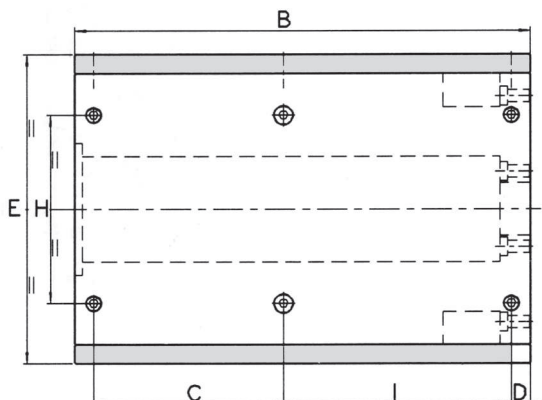
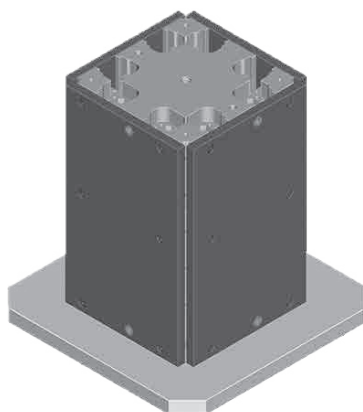
A ±0,02	360
B	600
C ±0,02	50
D ±0,02	25
E ±0,02	100
F ±0,02	100
G ±0,02	300
H	150
I H7	16
L F7	16
M	M12
N ±0,02	41
Ghisa kg Cast iron	335
Cod.	5.84.03600
€	8.991

Dimensioni - Dimensions (mm)

Art. 841

Cubo con piastre riportate

Cube with modular plates



A ±0,02	360
B	600
C ±0,02	250
D ±0,02	25
E ±0,02	410
F ±0,02	100
G ±0,02	300
H	250
I H7	300
L F7	16
M	M12
N ±0,02	41
Ghisa kg Cast iron	508
Cod.	5.84.13600
€	12.089

Ogni cubo è completo di 4 piastre riportate (Art. 58) e 2 coppie di tasselli di posizionamento.

Each cube is supplied with 4 modular plate (Art. 58) and 2 pair of key nuts.

SISTEMA MODULARE MULTIPLO

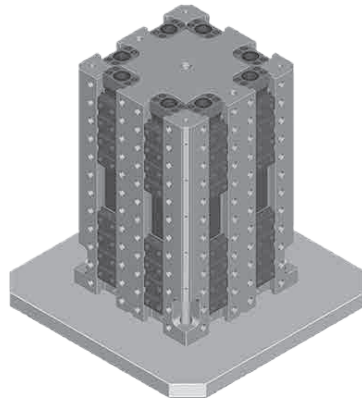
MULTI-MODULAR SYSTEM

Dimensioni - Dimensions (mm)

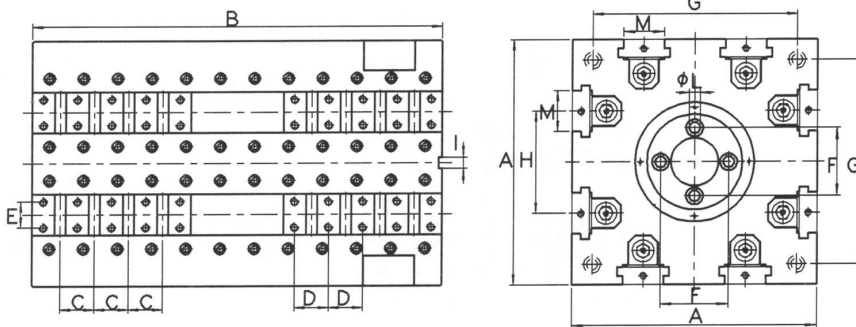
Art. 842

Cubo con morse FMS senza ganasce per il bloccaggio di 16 pezzi

Cube with FMS vises without jaws for 16 pcs clamping



Art.	Pag.
822	5.53
829A	5.52
830	8.22
840	5.61
850B	
850C	



A ±0,02	360
B	600
C ±0,02	50
D ±0,02	50
E ±0,02	38
F ±0,02	100
G ±0,02	300
H	150
I H7	16
L F7	16
M	61
N ±0,02	-
Ghisa kg Cast iron	406
Cod.	5.84.23600
€	18.741

Ogni cubo è fornito di 8 set completi di tutti i particolari interni di una morsa FMS (pag. 5-21) e di 2 coppie di tasselli di posizionamento

Each cube is supplied of 8 sets of all FMS vise components (pag. 5-21) and 2 pair of key nuts.

Art. 842A

Una slitta completa (Art. 822 + Art. 829 + Art. 830)
 One complete slide (Art. 822 + Art. 829 + Art. 830)

Cod. 5.84.2A360

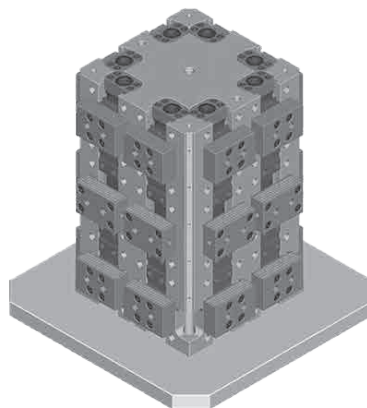
€ **1.373**

Dimensioni - Dimensions (mm)

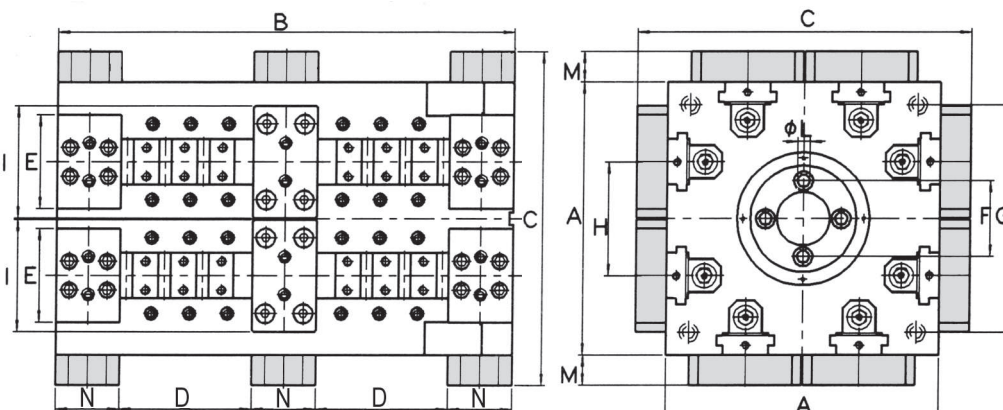
Art. 843

Cubo con morse FMS completo di ganasce standard per il bloccaggio di 16 pezzi. (Vedi dettagli a pag. 8.23)

Cube with FMS vises and standard jaws for 16 pcs clamping. (See details pag. 8.23)



Art.	Page
810	5.56
822	5.53
829A	5.52
830	8.22
840	8.22
845	5.61
850B	
850C	



A ±0,02	360
B	600
C ±0,02	440
D ±0,02	174
E ±0,02	124
F ±0,02	100
G ±0,02	300
H	150
I H7	148
L F7	16
M	40
N ±0,02	84
Ghisa kg Cast iron	454
Cod.	5.84.33600
€	22.723

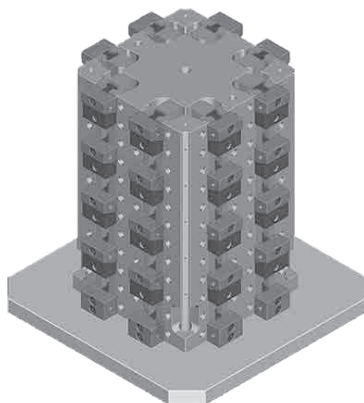
Ogni cubo è completo di 8 ganasce fisse (Art.845) e 16 ganasce mobili (Art. 810), 1 chiave a pipa, tasselli di posizionamento e 16 arresti laterali.

Each cube is supplied of 8 fixed jaw (Art. 845) and 16 movable jaw (Art. 810), 1 box wrench, one pair of key nuts and 16 workstop.

Dimensioni - Dimensions (mm)
Art. 844

Cubo con morse Multiflex per il bloccaggio di 32 pezzi e oltre

Cube with Multiflex vises for clamping 32 pcs. and over

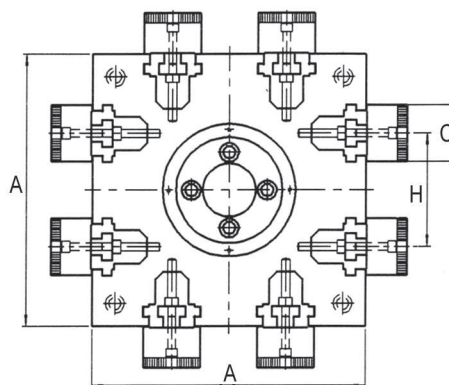
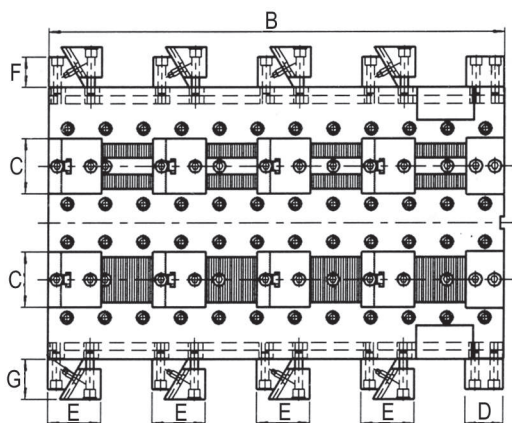

Art. Page

840	8.22
604	6.32
605	6.33

A ± 0.02	360
B	600
C ± 0.02	75
D ± 0.02	50
E ± 0.02	70 / 75
F ± 0.02	40
G ± 0.02	40 / 33
H	150

Ghisa / Cast iron kg 476

Cod. 5.84.43600

€ 24.466


Ogni cubo è completo di 8 ganasce fisse e 32 ganasce fisse-mobili, 1 chiave a "T", tasselli di posizionamento e 32 arresti laterali.

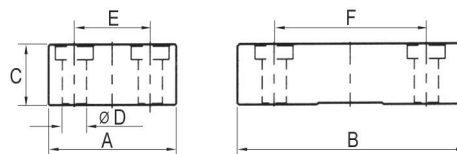
Each cube is supplied of 8 fixed jaw and 32 fixed-movable jaw, 1 "T" wrench, one pair of key nuts and 32 workshop.

Art. 844A

 Una slitta completa (Art. 846 + Art. 604 + Art. 605)
 One complete slide (Art. 846 + Art. 604 + Art. 605)

Cod. 5.84.4A360

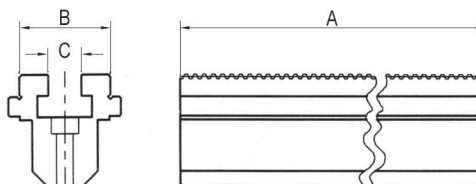
€ 1.945
ACCESSORI - ACCESSORIES
Dimensioni - Dimensions (mm)
Art. 845

 Ganasca fissa per cubo morse FMS (Art. 843)
 Fixed jaw for FMS vise cube (Art. 843)


A ± 0.02	84
B	148
C ± 0.02	140
D $F7$	16
E	50
F	100

Cod. 5.84.53600

€ 263
Art. 846

 Guida integrale per cubo MULTIFLEX
 Solid guide for MULTIFLEX cube


A ± 0.02	600
B ± 0.02	61
C ± 0.02	22

Cod. 5.84.63600

€ 1.196

SOVRATAVOLE QUADRATE / SQUARE BASE PLATES		ACCIAIO - STEEL METAL Fe420				ALLUMINIO / ALUMINUM AL5083			
Dimensioni - Dimensions (mm)		A	C	Kg	Cod.	€	Kg	Cod.	€
Art. 60C									
Piastra base per pallet* liscia interfacciata. Piani rettificati Tailor made smooth pallet* base plate. Two faces ground									
400	38	45	8.60.C40404S	1.146	16	8.60.C40404A	1.146		
500	38	70	8.60.C50504S	1.380	25	8.60.C50504A	1.380		
630	38	115	8.60.C63634S	1.730	41	8.60.C63634A	1.730		
800	38	180	8.60.C80804S	2.266	65	8.60.C80804A	2.266		

Art. 60E		ACCIAIO - STEEL METAL Fe420				ALLUMINIO / ALUMINUM AL5083			
A	C	Kg	Cod.	€		Kg	Cod.	€	
				P = 40	P = 50			P = 40	P = 50
Art. 60E									
Piastra base a reticolo interfacciata per pallet con fori calibrati e filettati integrali Tailor made grid type with solid calibrated holes and threads									
400	48	55	8.60.E40400S	1.852	1.505	20	8.60.E40400A	1.852	1.505
500	48	85	8.60.E50500S	2.430	1.968	31	8.60.E50500A	2.430	1.968
630	48	135	8.60.E63630S	3.726	3.090	49	8.60.E63630A	3.726	3.090
800	48	240	8.60.E80800S	5.785	4.050	86	8.60.E80800A	5.785	4.050

P = Passo 40 o 50mm Pitch 40 or 50mm

Tolleranza ± 0,02 mm, □ Interasse reticolo 40mm = Ø 12 / M10 - □ Interasse reticolo 50mm = Ø 16 / M12
 Tolerance ± 0,02 mm, □ Grid pitch 40mm = Ø 12 / M10 - □ Grid pitch 50mm = Ø 16 / M12

Art. 60F		ACCIAIO - STEEL METAL Fe420				ALLUMINIO / ALUMINUM AL5083			
A	C	Kg	Cod.	€		Kg	Cod.	€	
				P = 40	P = 50			P = 40	P = 50
Art. 60F									
Piastra base a reticolo interfacciata per pallet con bussole di centraggio temperate 100Cr6 e filetti riportati in acciaio inox Tailor made grid type with hardened bushings 100Cr6 and inox steel elicoils									
400	48	55	8.60.F40400S	2.865	1.834	20	8.60.F40400A	2.865	1.834
500	48	85	8.60.F50500S	4.011	2.865	31	8.60.F50500A	4.011	2.865
630	48	135	8.60.F63630S	5.729	4.011	49	8.60.F63630A	5.729	4.011
800	48	240	8.60.F80800S	8.021	5.729	86	8.60.F80800A	8.021	5.729

P = Passo 40 o 50mm / Pitch 40 or 50mm

Tolleranza ± 0,02 mm, □ Interasse reticolo 40mm = Ø 12 / M10 - □ Interasse reticolo 50mm = Ø 16 / M12
 Tolerance ± 0,02 mm, □ Grid pitch 40mm = Ø 12 / M10 - □ Grid pitch 50mm = Ø 16 / M12

Art. 60G		ACCIAIO - STEEL METAL Fe420				
A	C	X	Y	Kg	Cod.	€
Piastra base interfacciata per pallet con cave H7 Tailor made with H7 T-slots						
400	73	16	100	75	8.60.G40400S	2.315
500	73	16	100	110	8.60.G50500S	3.472
630	73	16	100	200	8.60.G63630S	5.207
800	73	16	100	285	8.60.G80800S	5.785

In caso di ordine specificare le quote X e Y
 Order must include X and Y dimensions

Art. 60H		ACCIAIO - STEEL METAL Fe420				
A	C	X	Y	Kg	Cod.	€
Piastra base interfacciata per pallet con cave parallele Tailor made with parallel slots						
400	73	16	100	80	8.60.H40400S	1.968
500	73	16	100	115	8.60.H50500S	2.777
630	73	16	100	205	8.60.H63630S	4.050
800	73	16	100	290	8.60.H80800S	4.628

In caso di ordine specificare le quote X e Y
 Order must include X and Y dimensions

! Per lavorazioni o materiali diversi (ghisa), richiedere quotazione specifica
 For different finishing and materials (cast iron), ask for specific quotation

SOVRATAVOLA RETTANGOLARE / RECTANGULAR BASE				ACCIAIO - STEEL METAL Fe420			ALLUMINIO / ALUMINUM AL5083					
Dimensioni - Dimensions (mm)				A	B	C	Kg	Cod.	€	Kg	Cod.	€
Art. 61C												
Piastra base liscia interfacciata. Piani rettificati Smooth base plate. Faces ground				600	400	38	71	8.61.C40600S	1.753	26	8.61.C40600A	1.753
				600	500	38	89	8.61.C50600S	1.986	32	8.61.C50600A	1.986
				800	400	38	95	8.61.C40800S	2.337	34	8.61.C40800A	2.337
				900	450	38	120	8.61.C45900S	2.921	43	8.61.C45900A	2.921
				1000	500	38	149	8.61.C50100S	3.505	54	8.61.C50100A	3.505

Art. 61E				A	B	C	Kg	Cod.	€ P = 50	Kg	Cod.	€ P = 50
Piastra base a reticolo interfacciata per pallet con fori calibrati e filettati integrali Tailor made grid type with solid calibrated holes and threads				600	400	38	90	8.61.E40600S	2.083	32	8.61.E40600A	2.083
				600	500	38	112	8.61.E50600S	2.547	40	8.61.E50600A	2.547
				800	400	38	119	8.61.E40800S	2.962	43	8.61.E40800A	2.962
				900	450	38	150	8.61.E45900S	3.472	54	8.61.E45900A	3.472
				1000	500	38	188	8.61.E50100S	4.050	68	8.61.E50100A	4.050

Tolleranza ± 0,02 mm, □ Interasse reticolo 40mm = Ø 12 / M10 - □ Interasse reticolo 50mm = Ø 16 / M12
 Tolerance ± 0,02 mm, □ Grid pitch 40mm = Ø 12 / M10 - □ Grid pitch 50mm = Ø 16 / M12

P = Passo 40 o 50mm Pitch 40 or 50mm

Art. 61F				A	B	C	Kg	Cod.	€ P = 50	Kg	Cod.	€ P = 50
Piastra base a reticolo interfacciata per pallet con bussole di centraggio temprate 100Cr6 e filetti riportati in acciaio inox Tailor made grid type with hardened bushings 100Cr6 and inox steel elicoils				600	400	38	87	8.61.F40600S	3.323	32	8.61.F40600A	3.323
				600	500	38	109	8.61.F50600S	4.011	40	8.61.F50600A	4.011
				800	400	38	117	8.61.F40800S	4.355	43	8.61.F40800A	4.355
				900	450	38	147	8.61.F45900S	5.501	54	8.61.F45900A	5.501
				1000	500	38	185	8.61.F50100S	6.417	68	8.61.F50100A	6.417

Tolleranza ± 0,02 mm, □ Interasse reticolo 40mm = Ø 12 / M10 - □ Interasse reticolo 50mm = Ø 16 / M12
 Tolerance ± 0,02 mm, □ Grid pitch 40mm = Ø 12 / M10 - □ Grid pitch 50mm = Ø 16 / M12

P = Passo 40 o 50mm / Pitch 40 or 50mm

Art. 61G				ACCIAIO - STEEL METAL Fe420		
A	B	C	X	Kg	Cod.	€
Piastra base interfacciata per pallet con cave H7 Tailor made with H7 T-slots						
600	400	73	16	117	8.61.G40600S	3.472
600	500	73	16	150	8.61.G50600S	4.628
800	400	73	16	160	8.61.G40800S	5.207
900	450	73	16	207	8.61.G45900S	6.364
1000	500	73	16	232	8.61.G50100S	7.521

In caso di ordine specificare le quote X e Y
 Order must include X and Y dimensions

Art. 61H				ACCIAIO - STEEL METAL Fe420		
A	B	C	X	Kg	Cod.	€
Piastra base interfacciata per pallet con cave parallele Tailor made with parallel slots						
600	400	73	16	122	8.61.H40600S	2.547
600	500	73	16	155	8.61.H50600S	3.472
800	400	73	16	165	8.61.H40800S	3.124
900	450	73	16	212	8.61.H45900S	4.628
1000	500	73	16	237	8.61.H50100S	5.207

In caso di ordine specificare le quote X e Y
 Order must include X and Y dimensions

! Per lavorazioni o materiali diversi (ghisa), richiedere quotazione specifica
 For different finishing and materials (cast iron), ask for specific quotation

SOVRATAVOLA TONDA / ROUNDED BASE				ACCIAIO - STEEL METAL Fe420			ALLUMINIO / ALUMINUM AL5083					
Dimensioni - Dimensions (mm)				ØA	B	C	Kg	Cod.	€	Kg	Cod.	€
Art. 62C												
Piastra base tonda liscia interfacciata. Piani rettificati Rounded smooth base plate. Faces ground				400	320	38	37	8.62.C4032S	1.228	13	8.62.C4032A	1.228
				500	400	38	58	8.62.C5040S	1.402	21	8.62.C5040A	1.402
				630	500	38	93	8.62.C6350S	1.636	33	8.62.C6350A	1.636
				800	630	38	-	8.62.C8063S	2.104	-	8.62.C8063A	2.104

Art. 62E				ØA	B	C	Kg	Cod.	€	Kg	Cod.	€	
Piastra base tonda a reticolo interfacciata con fori calibrati e filettati integrali Rounded base plate with solid calibrated holes and threads				400	320	38	37	8.62.E4032S	1.505	P = 50	13	8.62.E4032A	1.505
				500	400	38	58	8.62.E5040S	1.921	P = 50	21	8.62.E5040A	1.921
				630	500	38	93	8.62.E6350S	2.569	P = 50	33	8.62.E6350A	2.569
				800	630	38	150	8.62.E8063S	3.726	P = 50	-	8.62.E8063A	3.726

Tolleranza ± 0,02 mm, □ Interasse reticolo 50mm = Ø 16 / M12 Tolerance ± 0,02 mm, □ Grid pitch 50mm = Ø 16 / M12

Art. 62F				ØA	B	C	Kg	Cod.	€	Kg	Cod.	€	
Piastra base tonda a reticolo interfacciata con bussole di centraggio temprate 100Cr6 e filetti riportati in acciaio inox Grid type pallet rounded base plate with hardened bushings 100Cr6 and inox steel elicoils				400	320	38	-	8.62.F4032S	2.109	P = 50	-	8.61.F4032A	2.109
				500	400	38	-	8.62.F5040S	2.865	P = 50	-	8.62.F5040A	2.865
				630	500	38	-	8.62.F6350S	4.127	P = 50	-	8.62.F6350A	4.127
				800	630	38	-	8.62.F8063S	6.303	P = 50	-	8.62.F8063A	6.303

Tolleranza ± 0,02 mm, □ Interasse reticolo 50mm = Ø 16 / M12 Tolerance ± 0,02 mm, □ Grid pitch 50mm = Ø 16 / M12

Art. 62G				ØA	C	ACCIAIO - STEEL METAL Fe420		
Piastra base tonda interfacciata con cave H7 H7 T-slots round pallet base plate						Kg	Cod.	€
				400	73	-	8.62.G4032S	2.315
				500	73	-	8.62.G5040S	3.472
				630	73	-	8.62.G6350S	5.207
				800	73	-	8.62.G8063S	5.785

In caso di ordine specificare le quote X e Y - Order must include X and Y dimensions

Art. 62H				ØA	C	ACCIAIO - STEEL METAL Fe420		
Piastra base tonda interfacciata con cave H7 H7 T-slots round pallet base plate						Kg	Cod.	€
				400	73	-	8.62.H4032S	1.968
				500	73	-	8.62.H5040S	2.777
				630	73	-	8.62.H6350S	4.050
				800	73	-	8.62.H8063S	4.628

In caso di ordine specificare le quote X e Y - Order must include X and Y dimensions

KIT PIASTRE DI INTERFACCIA TONDE PER TAVOLE ROTANTI

INTERFACED PLATES KIT FOR ROTARY TABLE

Art. 62K*		ACCIAIO - STEEL METAL Fe420			ALLUMINIO / ALUMINUM AL5083		
ØA	C	Kg	Cod.	€	Kg	Cod.	€
160	19	-	8.62.K1616S	1.494	-	8.62.K1616A	1.494
210	19	-	8.62.K2121S	1.494	-	8.62.K2121A	1.494
310	19	-	8.62.K3131S	2.062	-	8.62.K3131A	2.062

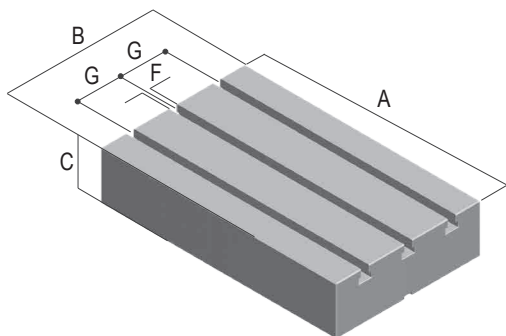
 * In fase d'ordine specificare costruttore - modello di macchina (fornire disegno) e tipo di morsa
 Specify the manufacturer, the machining center model (send us the drawing) and the type of vise needed when placing the order.

Kit per montaggio e allineamento incluso - Kit for mounting and alignment included

SOVRATAVOLA - BASE PLATES
ACCIAIO - STEEL METAL Fe420
Dimensioni - Dimensions (mm)

A	B	C	F	G	Kg	Cod.	€
420	230	98	16	70	75	8.86.G230420A	1.621
490	300	98	16	100	105	8.86.G300490A	2.083
630	370	98	16	100	170	8.86.G370630A	2.547
630	630	98	16	100	290	8.86.G630630A	4.860
800	550	98	16	100	320	8.86.G550800A*	-
800	800	98	16	100	480	8.86.G800800A	6.364
900	410	98	16	100	280	8.86.G410900A*	-
900	460	98	16	100	310	8.86.G460900A*	-
1000	550	98	16	100	410	8.86.G5501000A	5.785
1200	550	98	16	100	502	8.86.G5501200A	6.364
1240	550	98	16	100	518	8.86.G5501240A*	-
1740	750	98	16	100	960	8.86.G7501740A*	-
900	400	68	16	100	201	8.86.G400900A*	-
1000	400	68	16	100	224	8.86.G4001000A*	-
1100	400	68	16	100	245	8.86.G4001100A*	-
1200	380	78	16	100	262	8.86.G3801200A*	-
1600	380	78	16	100	389	8.86.G3801600A*	-
2000	380	78	16	100	437	8.86.G3802000A*	-
800	500	68	16	100	224	8.86.G500800A*	-
900	500	68	16	100	252	8.86.G500900A*	-
1000	500	68	16	100	280	8.86.G5001000A*	-
1100	500	68	16	100	308	8.86.G5001100A*	-
1200	500	68	16	100	336	8.86.G5001200A*	-
1400	500	68	16	100	392	8.86.G5001400A*	-

Art. 86G

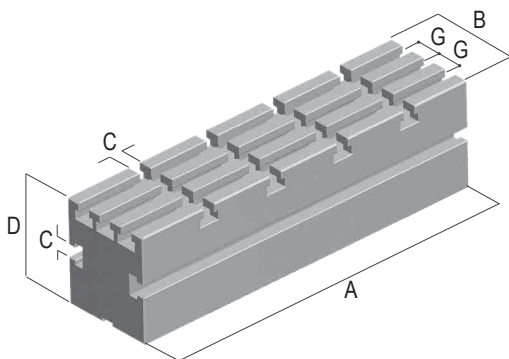
 Piastra base con cave H7
 H7 T-slots base plate


* Misure disponibili a richiesta - Sizes available on request

SOVRATAVOLA - BASE PLATES
ACCIAIO - STEEL METAL Fe420
Dimensioni - Dimensions (mm)

A	B	C ^{H7}	D	G	Kg	Cod.	€
400	125	14	140	50	46	8.94.400125	3.472
600	125	14	140	50	68	8.94.600125	6.364
800	125	14	140	50	92	8.94.800125	9.835
1000	125	14	140	50	114	8.94.1000125	13.884

Art. 94

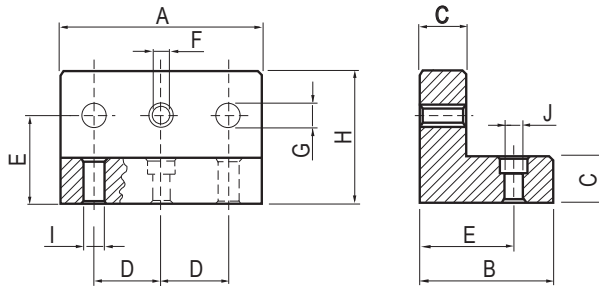
 Supporto base con cave H7 temprato
 H7 T-slots support base plate case hardened

 Materiale: acciaio cementato e temprato 55HRC ± 2
 Material: case-hardened steel 55HRC ± 2

! Per lavorazioni o materiali diversi (alluminio), richiedere quotazione specifica - For different finishing and materials (aluminium), ask for specific quotation

ELEMENTI MODULARI - MODULAR ELEMENTS

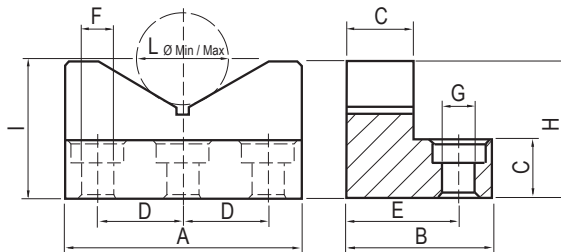
Dimensioni - Dimensions (mm)											Cod.	€
A	B	C	D	E	F	G	H	I	J	kg		
120	80	30	40	60	M10	12	80	12	11	3,5	8.66.402210	289
120	100	35	50	70	M12	16	100	16	13	6	8.66.502210	347

Art. 66

 Squadra piccola
 Angle small

Art. 68

 Squadra a "V"
 V-block


A	B	C	D	E	F	G	H	I	L	kg	Cod.	€
120	80	30	40	60	12	11	80	86	30 / 180	3	8.68.402410	347
150	100	35	50	70	16	13	100	98	30 / 220	5	8.68.502410	380

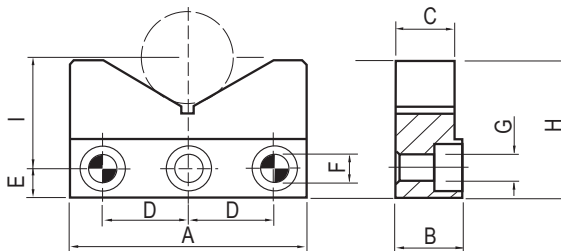


QUOTA "I" RILEVATA CON Ø60 h7 - "I" DIMENSION Ø60 h7

Art. 69

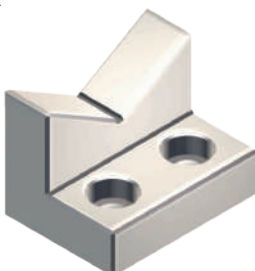
 Piastra a "V"
 V-pad


A	B	C	D	E	F	G	H	I	L	kg	Cod.	€
120	30	27	40	20	12	11	80	66	30 / 180	3	8.69.402610	305
150	35	30	50	20	16	13	100	68	30 / 220	16	8.69.502610	347

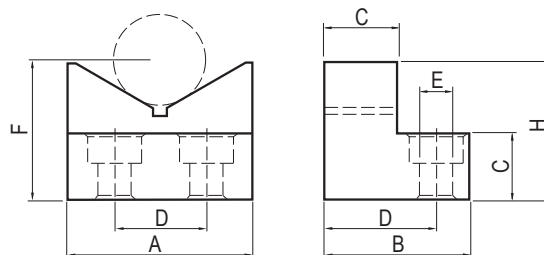


QUOTA "I" RILEVATA CON Ø60 h7 - "I" DIMENSION Ø60 h7

Art. 69A

 Squadra modulare a "V"
 Modular V-block


A	B	C	D	E	F	G	H	I	L	kg	Cod.	€
98	74	35	50	16	78	-	78	-	30 / 150	3	8.69.A510180	347



QUOTA "I" RILEVATA CON Ø50 h7 - "I" DIMENSION Ø50 h7

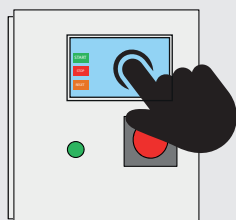
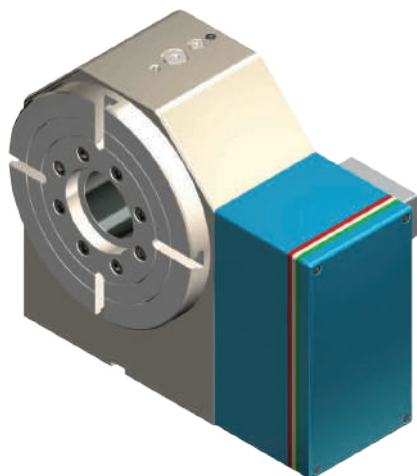
DIVISORE AUTOMATICO DPG 250

AUTOMATIC DIVIDING HEAD DPG 250

Divisore automatico
Automatic dividing head

Dati tecnici
Technical Data

DPG 250



PROGRAMMAZIONE TOUCH SCREEN
FACILE ED INTUITIVA O TRAMITE COLLEGAMENTO DIRETTO AL CNC

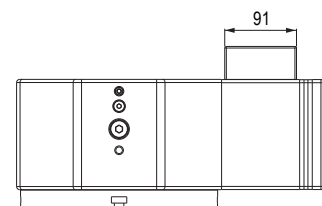
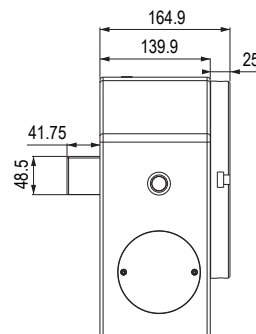
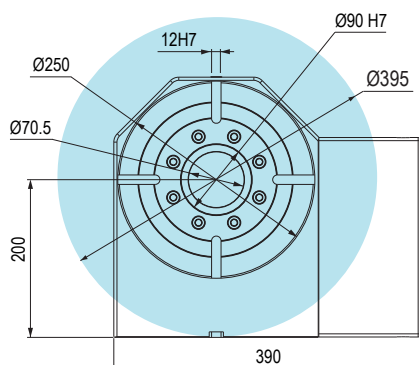
EASY AND INTUITIVE TOUCH SCREEN
PROGRAMMING OR THROUGH DIRECT CONNECTION TO THE CNC

- Installazione semplice (alimentazione 220V)
- Corona in bronzo speciale
- Controsupporto semplice
- Vite senza fine in acciaio temprato e rettificato
- Vite e corona in bagno d'olio
- Cuscinetti a vite precaricati
- Cuscinetto anteriore a rulli incrociati sovradimensionato
- Recupero gioco con avvicinamento assiale
- Completa tenuta stagna ai liquidi con possibilità di pressurizzazione
- Possibilità di montare motori di tutte le marche
- Dimensioni esterne contenute
- Finestra di controlli liquidi e condensa
- Lavorazione in posizionamento a 360°

- Easy installation (220V)
- Special bronze crown
- Simple tailstock
- Worm screw in hardened ground steel
- Bath lubrication Screw and Crown
- Pre-loaded screw bearings
- Over-dimensioned crossed-roller front bearing
- Play recover with axial approach
- Watertight seal with possibility of pressurization
- Possibility to mount motors of all brands
- Reduced external dimensions
- Condensation and liquid control window
- 360° work positioning

Diametro del divisore Dividing head diameter		250 mm
Diametro del foro passante Clearance hole diameter		70,5 mm
Altezza punta Center height		200 mm
Dimensione della scanalatura a T T-Slot width		12 mm
Sistema di bloccaggio Clamping system		Idrraulico Hydraulic
Forza frenante Clamping torque		3000 Nm
Motore Servo motor		3000 Max.g/min
Minimo incremento Minimum increment		0,002
Velocità di rotazione Rotation speed		33,3 Giri/min
Rapporti vite/corona Speed reduction ratio (screw/gear)		1/90
Rapporti vite/motore Speed reduction ratio (screw/motor)		1/180
Precisione Indexing accuracy		±10 Sec.
Ripetibilità Repeatability		4 Sec.
Max. carico di lavoro sul divisore Max. allowable work weight on the dividing head	Verticale Vertical	Kg.550
	Orizzontale Horizontal	Kg.1500
Max. carico di spinta applicabile sul divisore Max. allowable tool load on the dividing head		N 25000
		FxL Nm 1000
		FxL Nm 2200
Rapporti vite/corona Speed reduction ratio (screw/gear)	Verticale Vertical	10,5 Kg. m ²
Coppia in lavoro Driving torque	Corona dentata Worm gear	698 Nm
Kg		110
Cod.		8.DP.G2500
€		22.533


DPG 250



Versione piastra basculante Tilting plate type		C	D	E	F	G	P
Divisore Gerardi DPG250 con piastra liscia basculante 	500	Cod. 8.DP.G250C5 € 30.631	8.DP.G250D5 on req.	8.DP.G250E5 30.393	8.DP.G250F5 30.990	8.DP.G250G5 30.512	8.DP.G250P5 31.086
	600	Cod. 8.DP.G250C6 € 30.215	8.DP.G250D6 on req.	8.DP.G250E6 30.631	8.DP.G250F6 31.348	8.DP.G250G6 30.631	8.DP.G250P6 32.599
	700	Cod. 8.DP.G250C7 € 30.393	8.DP.G250D7 on req.	8.DP.G250E7 30.931	8.DP.G250F7 31.765	8.DP.G250G7 30.872	8.DP.G250P7 32.957
	800	Cod. 8.DP.G250C8 € 30.692	8.DP.G250D8 on req.	8.DP.G250E8 31.289	8.DP.G250F8 32.242	8.DP.G250G8 31.110	8.DP.G250P8 33.315
	1000	Cod. 8.DP.G250C1 € 31.002	8.DP.G250D1 on req.	8.DP.G250E1 31.704	8.DP.G250F1 32.897	8.DP.G250G1 31.407	8.DP.G250P1 33.850


Gerardi dividing head DPG250 with tilting smooth plate
 Nel caso si disponga di un proprio divisore, il prezzo dell'attrezzatura potrebbe subire variazioni
 In case you already have a diverger, the price may be revised


UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art. 99A		Cod. 8.99.A1000	€ 717
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Art. 99B		Cod. 8.99.B1000	€ 969
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Art. 99H		Cod. 8.99.H1000	€ 122
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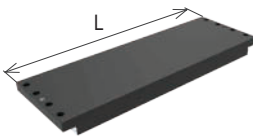
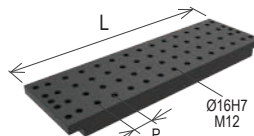
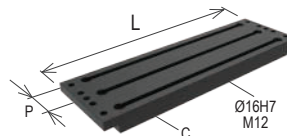
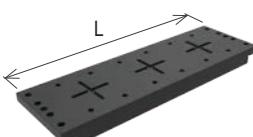
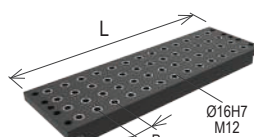
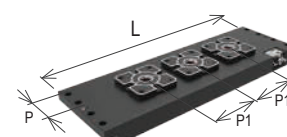
Art. 62K DPG250		Cod. 8.62.KADPG250	€ 1.494
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Art. 62L		Cod. 8.62.L250000	€ 285
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Art. 99S	Piastra base con cave Piani rettificati Base plate with slot Faces ground		Dimensioni B mm Dimension B mm		Kg	Cod.	€
			A	C			
			600	400	50	94	7.99.S060S 2.089
			900	400	50	141	7.99.S090S 2.447
			1200	400	50	188	7.99.S120S 2.744
			1500	400	50	234	7.99.S150S 3.042

 Cave o fori calibrati su richiesta
 Slot or calibrated holes on request

Disponibili quote "B" a step di 50mm - Available dimension "B" in steps of 50mm

Art. 99C	Art. 99E	Art. 99G	Art. 99D	Art. 99F	Art. 99P
Piastra liscia Interface plate 	Piastra a reticolo integrale Grid plate 	Piastra con cave Plate with slots grooved type 	Piastra personalizzata Personalized plate 	Piastra a reticolo con bussole e filetti riportati Grind plate with bushings and elicoils 	Piastra con zero point Zero point plate 

Tipo Types	L (mm)	P (mm)	C (mm)	P1 (mm)
99C	300	-	-	-
	350	-	-	-
99F	400	50	-	-
	450	-	-	-
99G	500	Su richiesta On request	Su richiesta On request	-
	550	-	-	-
99D	600	-	-	-
	650	-	-	-
99E	700	50	-	-
	750	-	-	-
99P	800	150 - 200 250 - 300	-	100 - 150 200

DIVISORE MECCANICO DIVIGER 205


MECHANICAL DIVIDING HEAD DIVIGER 205

Divisore automatico
Automatic dividing head

Dati tecnici
Technical Data

DIVIGER 205

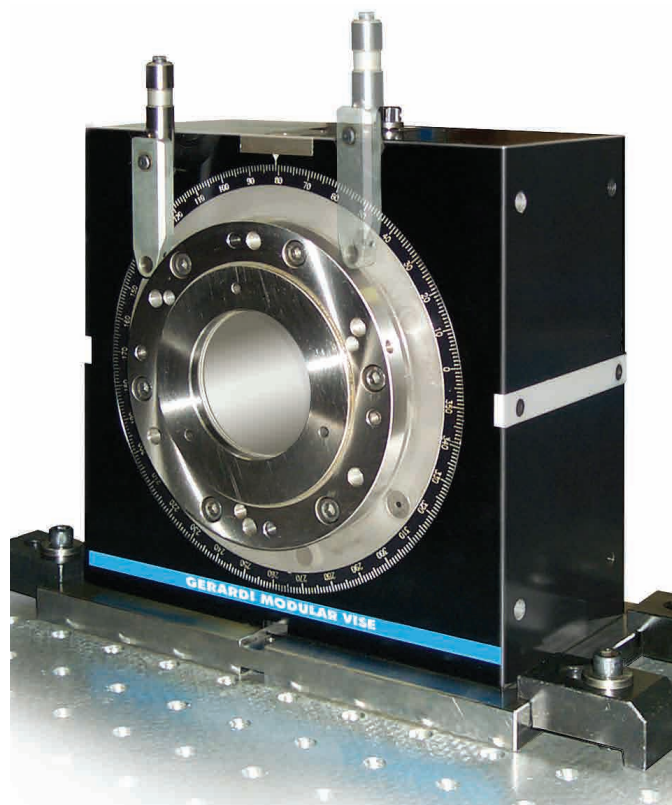


Diametro del divisore Dividing head diameter	220 mm
Diametro del foro passante Clearance hole diameter	85 mm
Altezza centrale Center height	200 mm
Dimensione della scanalatura a T T-Slot width	-
Sistema di bloccaggio Clamping system	Meccanico Mechanical
Minimo incremento Minimum increment	1°
Precisione Indexing accuracy	±10 Sec.
Coppia in lavoro Driving torque	 3000 Nm
Kg	93
Cod.	7.66.73000
€	13.056

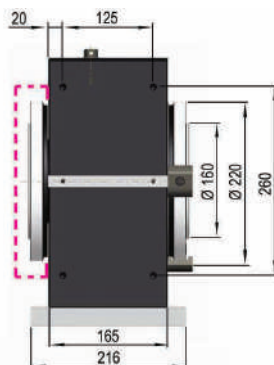
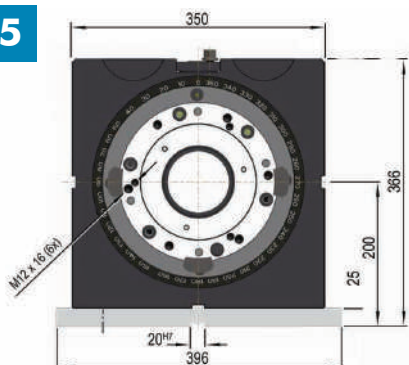
DIVISORE MECCANICO, SENZA CAVI O IDRAULICA,
PERMACCHINE A CNC

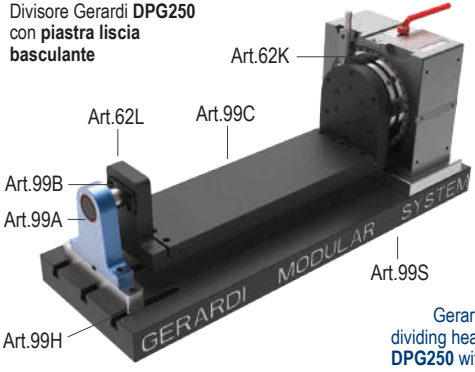
MECHANICAL DIVIDING HEAD, WITHOUT ELECTRICAL CABLES
OR HYDRAULIC, FOR CNC MILLING MACHINE

- Maggiore efficienza nella lavorazione su più lati
- Completamente autonomo dalla macchina
- Elevato momento torcente
- Divisione manuale o automatica tramite mandrino macchina
- 360 posizioni
- Serraggio simultaneo di due particolari grazie alla doppia flangia
- lavorazione su 5 facce senza contropunta
- Lavorazione a barra grazie al mandrino cavo
- Utilizzabile orizzontalmente o verticalmente
- Cambio tramite serraggio a cuneo
- Cost-effective on multiple-sides machining
- Machine independent
- High holding torque
- Dividing manually or automatically using the machine spindle
- 360 x 1° division
- Simultaneous clamping of 2 workpieces thanks to the dual flange
- 5 faces machining without counter-holder
- Bar machining due to hollow spindle
- To be used horizontally or vertically
- Quick change through wedge clamping

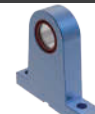



DIVIGER 205




Versione piastra basculante Tilting plate type		C	D	E	F	G	P
Divisore Gerardi DPG250 con piastra liscia basculante  Art.62K Art.62L Art.99C Art.99B Art.99A Art.99H Art.99S Gerardi dividing head DPG250 with tilting smooth plate	500	Cod. 8.DI.V250C5 € 20.440	8.DI.V250D5 on req.	8.DI.V250E5 20.918	8.DI.V250F5 21.514	8.DI.V250G5 21.036	8.DI.V250P5 21.633
	600	Cod. 8.DI.V250C6 € 20.134	8.DI.V250D6 on req.	8.DI.V250E6 21.156	8.DI.V250F6 21.870	8.DI.V250G6 21.156	8.DI.V250P6 23.122
	700	Cod. 8.DI.V250C7 € 20.308	8.DI.V250D7 on req.	8.DI.V250E7 21.453	8.DI.V250F7 22.287	8.DI.V250G7 21.395	8.DI.V250P7 23.479
	800	Cod. 8.DI.V250C8 € 20.596	8.DI.V250D8 on req.	8.DI.V250E8 21.752	8.DI.V250F8 22.766	8.DI.V250G8 21.633	8.DI.V250P8 23.838
	1000	Cod. 8.DI.V250C1 € 20.828	8.DI.V250D1 on req.	8.DI.V250E1 22.228	8.DI.V250F1 23.421	8.DI.V250G1 21.930	8.DI.V250P1 24.373
	Nel caso si disponga di un proprio divisore, il prezzo dell'attrezzatura potrebbe subire variazioni In case you already have a divider, the price may be revised						

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art. 99A		Cod. 8.99.A1000
Supporto Support	€	717

Art. 99B		Cod. 8.99.B1000
Perno di centraggio orizzontale Horizontal centering pin	€	969

Art. 99H		Cod. 8.99.H1000
Distanziale per supporto Spacer support	€	122

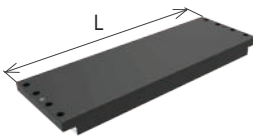
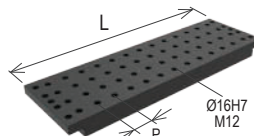
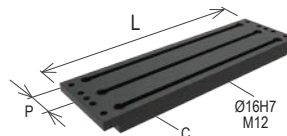
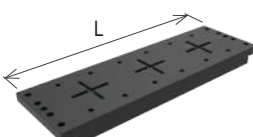
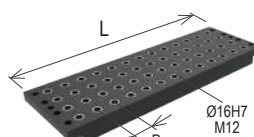
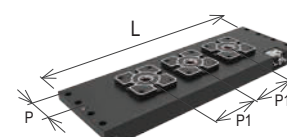
Art. 62K DIVIGER 205		Cod. 8.62.KADIV205
Piastra di interfaccia per tavola basculante completa di sistema d'allineamento Connecting plate with alignment system for tilting table	€	1.164

Art. 62L		Cod. 8.62.L250000
Piastra di interfaccia per perno di centraggio Connecting plate for centering pin	€	285

Art. 99S		Dimensioni B mm Dimension B mm	A	C	Kg	Cod.	€
Piastra base con cave Piani rettificati Base plate with slot Faces ground		600	400	50	94	7.99.S060S	2.089
		900	400	50	141	7.99.S090S	2.447
		1200	400	50	188	7.99.S120S	2.744
		1500	400	50	234	7.99.S150S	3.042

 Cave o fori calibrati su richiesta
 Slot or calibrated holes on request

Disponibili quote "B" a step di 50mm - Available dimension "B" in steps of 50mm

Art. 99C	Art. 99E	Art. 99G	<table border="1"> <thead> <tr> <th>Tipo Types</th> <th>L (mm)</th> <th>P (mm)</th> <th>C (mm)</th> <th>P1 (mm)</th> </tr> </thead> <tbody> <tr> <td>99C</td> <td>300</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>99F</td> <td>350</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>99E</td> <td>400</td> <td>50</td> <td>-</td> <td>-</td> </tr> <tr> <td>99G</td> <td>450</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>99G</td> <td>500</td> <td>Su richiesta On request</td> <td>Su richiesta On request</td> <td>-</td> </tr> <tr> <td>99D</td> <td>550</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>99E</td> <td>600</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>99E</td> <td>650</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>99E</td> <td>700</td> <td>50</td> <td>-</td> <td>-</td> </tr> <tr> <td>99E</td> <td>750</td> <td>-</td> <td>-</td> <td>-</td> </tr> <tr> <td>99P</td> <td>800</td> <td>150 - 200 250 - 300</td> <td>-</td> <td>100 - 150 200</td> </tr> </tbody> </table>	Tipo Types	L (mm)	P (mm)	C (mm)	P1 (mm)	99C	300	-	-	-	99F	350	-	-	-	99E	400	50	-	-	99G	450	-	-	-	99G	500	Su richiesta On request	Su richiesta On request	-	99D	550	-	-	-	99E	600	-	-	-	99E	650	-	-	-	99E	700	50	-	-	99E	750	-	-	-	99P	800	150 - 200 250 - 300	-	100 - 150 200
Tipo Types	L (mm)	P (mm)		C (mm)	P1 (mm)																																																										
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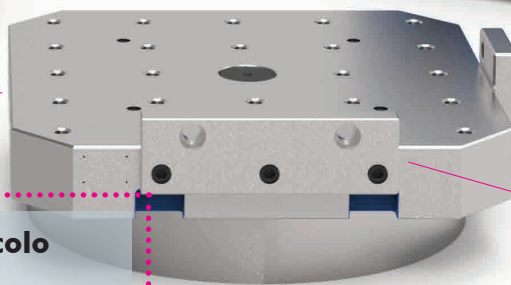
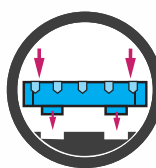
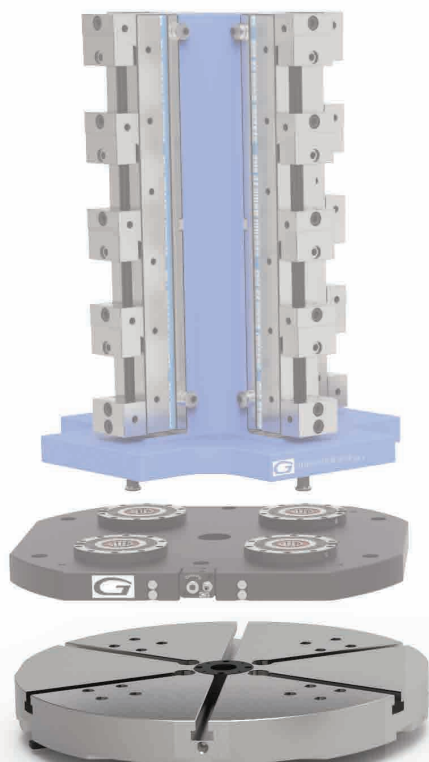
PALLETS



Precisione / Accuracy
±0,005mm

Il miglior pallet per il tuo centro di lavoro orizzontale

The best pallet for your horizontal machining centre

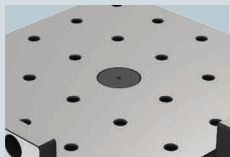


8



A cave o reticolo
T slot or Grid

I pallet Gerardi sono tutti disponibili nelle versioni a cave o reticolo in ghisa monoblocco G30 stabilizzata con doppio trattamento di distensione. Massima precisione!



All Gerardi pallets are available with caves or grid and are made with solid cast iron cast G30 with double stress heat treatment. Highest accuracy!



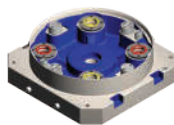
Arresto laterale
Workstop

Per un rapido e preciso allineamento dell'attrezzatura i pallets sono provvisti di due arresti laterali

Gerardi pallets are equipped with two workstops for quick and accurate positioning of the fixture



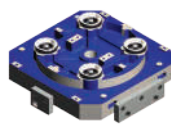
DOOSAN



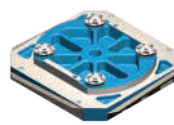
DMGMORI



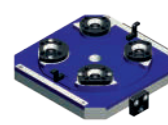
MANDELLI



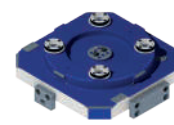
MAKINO



MAZAK



OKUMA



KIWA

ACCESSORI E PARTI DI RICAMBIO

SPARE PARTS AND ACCESSORIES

Tutti gli accessori sono forniti completamente temprati e rettificati. **TUTTI I COMPONENTI SONO COMPRESI NEL PREZZO**

All accessories are supplied completely hardened and ground HRC60. **PRICE ALL INCLUSIVE**



1	Art.45B TIRANTE PULL-STUD
2	VITI DI FISSAGGIO FIXING SCREWS
3	Art.85C BUSSOLA CONICA CONIC BUSHING
4	Art.85D SPESSORE SPACER
5	VITI DI FISSAGGIO FIXING SCREWS
6	Art.85L BUSSOLA DI CENTRAGGIO CENTERING BUSHING
7	Art.85E PIASTRA GRANDE BIG PLATE

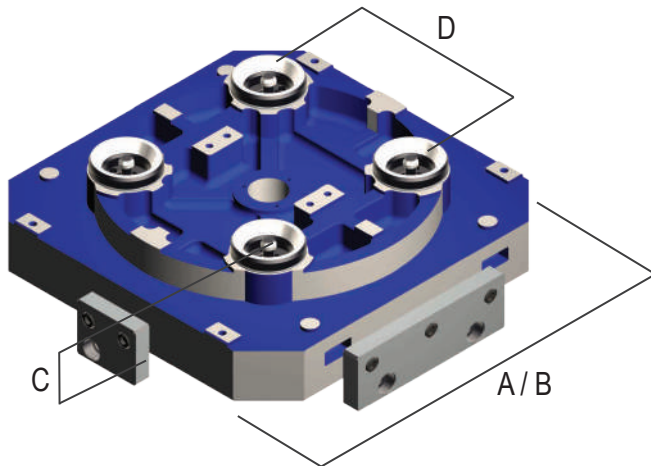
8	Art.85H BLOCCHETTO DI RIFERIMENTO REFERENT BLOCK
9	Art.85Z / 86Z CORPO DEL PALLET PALLET BODY
10	Art.85F PIASTRA PICCOLA SMALL PLATE
11	VITI DI FISSAGGIO FIXING SCREWS
12	O-RING DI TENUTA O-RING
13	Art.85G TAPPO PLUG

PALLET MAKINO

MAKINO PALLET

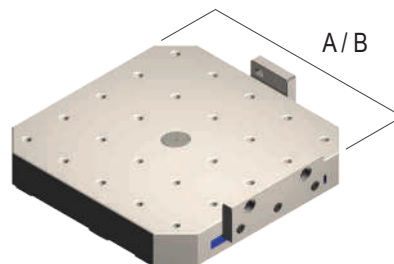


Ghisa monoblocco G30 stabilizzata con doppio trattamento di distensione. **Massima precisione**
Solid cast iron cast G30 with double stress relieving heat treatment. **Highest accuracy**



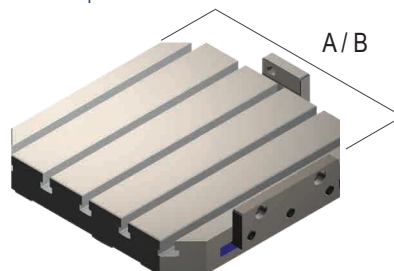
Art. 85

Pallet a reticolo con fori integrali M16
Grid type pallet with solid threads M16



Art. 86

Pallet con cave a T H7
H7 T slots pallet



AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !



Art. 85E

Piastra grande
Big plate

Cod. 8.85.E...MAK*

€ 146



Art. 85F

Piastra piccola
Small plate

Cod. 8.85.F...MAK*

€ 129



*Esempio ordine: per art. 85F montato su pallet 500x500 il codice è: 8.85.F5050MAK / *Order example: for Art. 85F mounted on 500x500 pallet the code is: 8.85.F5050MAK

PALLET MAKINO Art.85

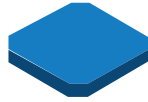
Dimensioni - Dimensions (mm)	A	B	C	D	Modelli / Models	Cod.	€
	400	400	115	200	A51NX - A51 - A55	8.85.4040MAK	4.555
	500	500	115	200	A55E - A66	8.85.5050MAK/200	5.440
	500	500	138	240	A61NX - A61 A66E - A77E - A66	8.85.5050MAK	5.440
	500	630	168	300	A71	8.85.5063MAK	5.232
	630	630	168	300	A81 - A81M - A82 - A88 A88E A77 - A82M - A81NX	8.85.6363MAK	7.084
	800	800	168	400	A99E	8.85.8080MAK	10.056

PALLET MAKINO Art.86

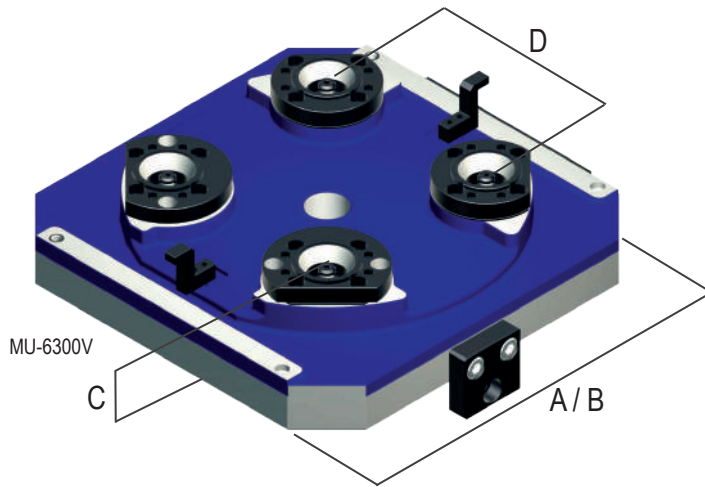
Dimensioni - Dimensions (mm)	A	B	C	D	Modelli / Models	Cod.	€
	400	400	115	200	A51NX - A51 - A55	8.86.4040MAK	5.010
	500	500	115	200	A55E - A66	8.86.5050MAK/200	5.946
	500	500	138	240	A61NX - A61 A66E - A77E - A66	8.86.5050MAK	5.946
	500	630	168	300	A71	8.85.5063MAK	5.232
	630	630	168	300	A81 - A81M - A82 - A88 A88E A77 - A82M - A81NX	8.86.6363MAK	7.792
	800	800	168	400	A99E	8.86.8080MAK	11.068

PALLET OKUMA

OKUMA PALLET

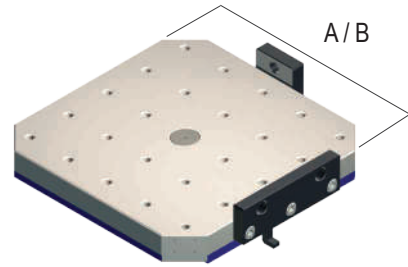


Ghisa monoblocco G30 stabilizzata con doppio trattamento di distensione. **Massima precisione**
 Solid cast iron cast G30 with double stress relieving heat treatment. **Highest accuracy**



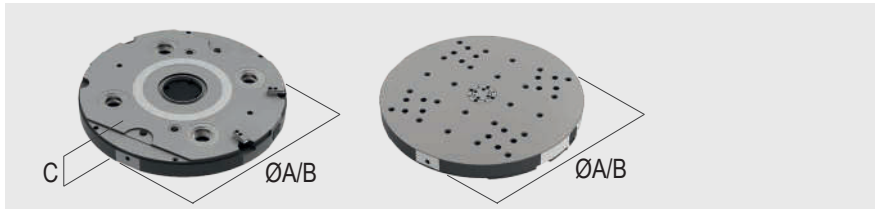
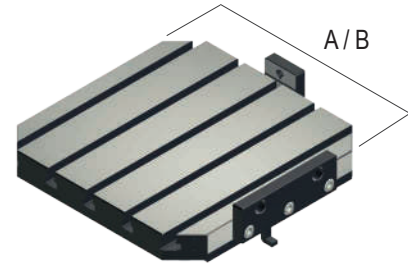
Art. 85

Pallet a reticolo con fori integrali M16
 Grid type pallet with solid threads M16



Art. 86

Pallet con cave a T H7
 H7 T slots pallet



UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art. 85E

Piastra grande
 Big plate

Cod. 8.85.E...OKU*

€ **146**

Art. 85H

Blocchetto di riferimento
 Referent block

Cod. 8.85.H...OKU

€ **On req.**

Art. 85F

Piastra piccola
 Small plate

Cod. 8.85.F...OKU*

€ **129**



*Esempio ordine: per art. 85F montato su pallet 500x500 il codice è: 8.85.F5050OKU / *Order example: for Art. 85F mounted on 500x500 pallet the code is: 8.85.F5050OKU

PALLET OKUMA Art.85

Dimensioni - Dimensions (mm)	A	B	C	D	Modelli / Models	Cod.	€
	400	400	95	200	MA 400 HA - MB 4000 H - MA 40 H	8.85.4040OKU	4.555
	500	500	95	200	MB 5000 H	8.85.5050OKU/200	5.440
	500	500	118	240	MA 500 H II - MA 50	8.85.5050OKU	5.440
	630	630	122	320	MA 600 H II - MA 60 H	8.85.6363OKU	7.084
	Ø630	Ø630	63	300	MU 6300V	8.85.6300KU2	<i>on request</i>
	800	800	146	400	MA 800 HB	8.85.8080OKU	10.056
	1000	1000	-	-	MB 10000 H	8.85.1010OKU	<i>on request</i>

PALLET OKUMA Art.86

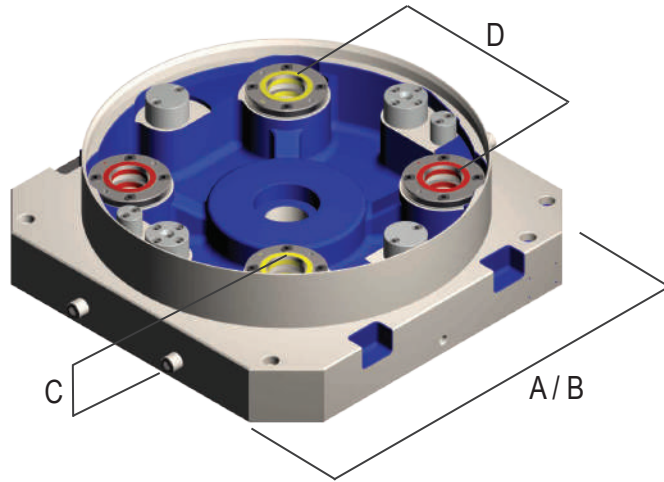
Dimensioni - Dimensions (mm)	A	B	C	D	Modelli / Models	Cod.	€
	400	400	95	200	MA 400 HA - MB 4000 H - MA 40 H	8.86.4040OKU	5.010
	500	500	95	200	MB 5000 H	8.86.5050OKU/200	5.946
	500	500	118	240	MA 500 H II - MA 50	8.86.5050OKU	5.946
	630	630	122	320	MA 600 H II - MA 60 H	8.86.6363OKU	7.792
	Ø630	Ø630	63	300	MU 6300V	8.86.6300KU2	<i>on request</i>
	800	800	146	400	MA 800 HB	8.86.8080OKU	11.068
	1000	1000	-	-	MB 10000 H	8.86.1010OKU	<i>on request</i>

PALLET DMG-MORI

DMG-MORI PALLET

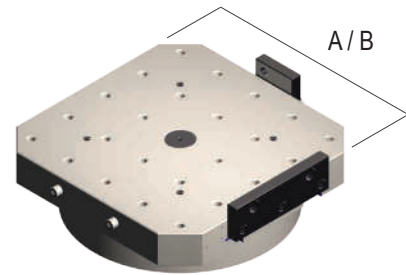


Ghisa monoblocco G30 stabilizzata con doppio trattamento di distensione. Massima precisione
Solid cast iron cast G30 with double stress relieving heat treatment. Highest accuracy



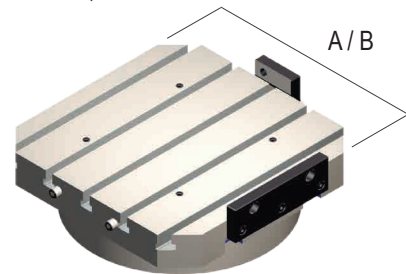
Art. 85

Pallet a reticolo con fori integrali M16
Grid type pallet with solid threads M16



Art. 86

Pallet con cave a T H7
H7 T slots pallet



AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

Art. 85E

Piastra grande
Big plate

Cod. 8.85.E...DMG*

€ 146



Art. 85F

Piastra piccola
Small plate

Cod. 8.85.F...DMG*

€ 129



*Esempio ordine: per art. 85F montato su pallet 500x500 il codice è: 8.85.F5050DMG / *Order example: for Art. 85F mounted on 500x500 pallet the code is: 8.85.F5050DMG

PALLET DMG MORI Art.85

Dimensioni - Dimensions (mm)	A	B	C	D	Modelli / Models	Cod.	€
	400	400	86	190	NHX 4000 2° - NH 4000 DCG	8.85.4040DMG	4.555
	500	500	120	250	NHX 5000 2° - NHX 5500 NH 5000 DCG/40	8.85.5050DMG	5.440
	630	630	157	300	NHX 6300 - NH 6300 DCGII DMC 80H douBLOCK - DMC 80H linear	8.85.6363DMG	7.084
	800	800	215	450	NHX 8000 DMC 100H douBLOCK - DMC 125H douBLOCK	8.85.8080DMG	on request
	1000	1000	-	-	NHX 10000	8.85.1010DMG	on request

PALLET DMG MORI Art.86

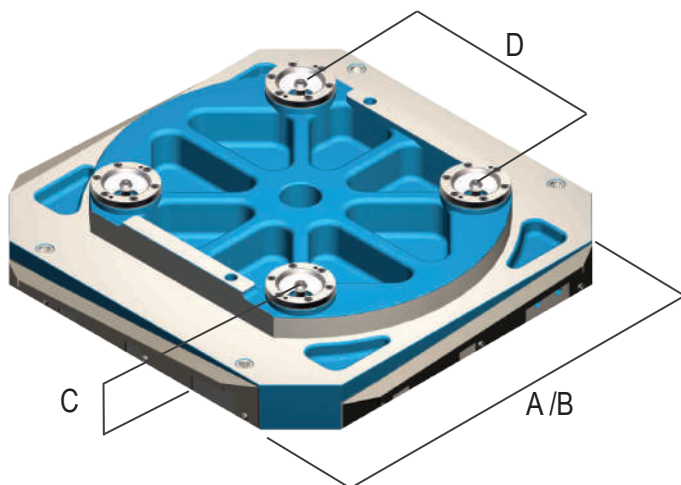
Dimensioni - Dimensions (mm)	A	B	C	D	Modelli / Models	Cod.	€
	400	400	86	190	NHX 4000 2° - NH 4000 DCG	8.86.4040DMG	5.010
	500	500	120	250	NHX 5000 2° - NHX 5500 NH 5000 DCG/40	8.86.5050DMG	5.946
	630	630	157	300	NHX 6300 - NH 6300 DCGII DMC 80H douBLOCK - DMC 80H linear	8.86.6363DMG	on request
	800	800	215	450	NHX 8000 DMC 100H douBLOCK - DMC 125H douBLOCK	8.86.8080DMG	on request
	1000	1000	-	-	NHX 10000	8.86.1010DMG	on request

PALLET MAZAK

MAZAK PALLET

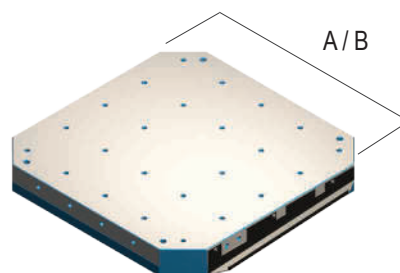


Ghisa monoblocco G30 stabilizzata con doppio trattamento di distensione. Massima precisione
 Solid cast iron cast G30 with double stress relieving heat treatment. Highest accuracy



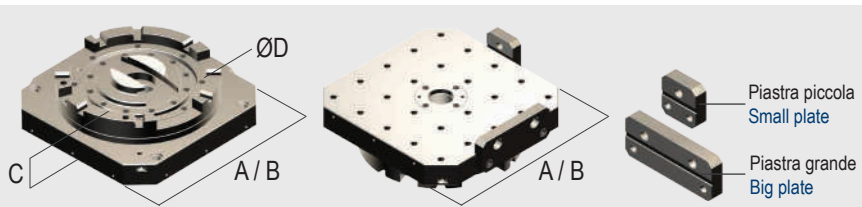
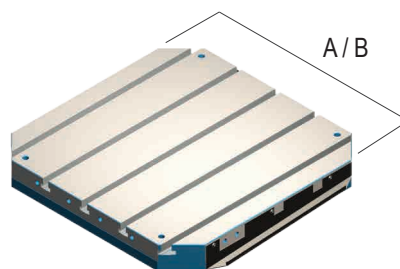
Art. 85

Pallet a reticolo con fori integrali M16
 Grid type pallet with solid threads M16



Art. 86

Pallet con cave a T H7
 H7 T slots pallet



UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art. 85E

Piastra grande
 Big plate

Cod. 8.85.E...MAZ*

€ 146

Art. 85F

Piastra piccola
 Small plate

Cod. 8.85.F...MAZ*

€ 129



*Esempio ordine: per art. 85F montato su pallet 500x500 il codice è: 8.85.F5050MAZ / *Order example: for Art. 85F mounted on 500x500 pallet the code is: 8.85.F5050MAZ

PALLET MAZAK Art.85

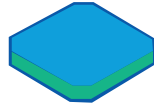
Dimensioni - Dimensions (mm)	A	B	C	D	Modelli / Models	Cod.	€
	400	400	-	-	HCN 4000 - NEXUS 4000III	8.85.4040MAZ	on request
	400	400	121	Ø350	FH - 4800	8.85.4040MAZ2	7.787
	500	500	-	-	HCN 5000 - HCN 5000/50 NEXUS 5000III - NEXUS 6000II	8.85.5050MAZ	on request
	630	630	136	320	HCN 6800 - NEXUS 6800 II 6800 II HM PACKAGE	8.85.6363MAZ	7.084
	800	800	167	420	M 8800 - HCN 8800 NEXUS 8800II - MEGA 8800	8.85.8080MAZ	on request
	1000	1000	-	-	M 10800 - HCN 10800 NEXUS 10800II - 10800II HM PACKAGE	8.85.1010MAZ	on request

PALLET MAZAK Art.86

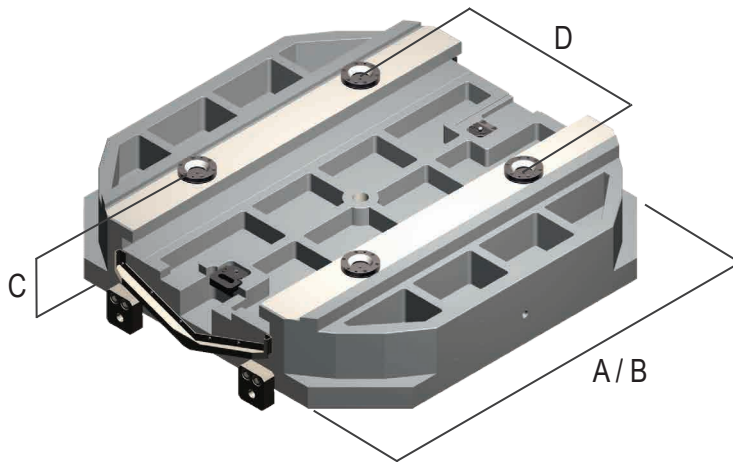
Dimensioni - Dimensions (mm)	A	B	C	D	Modelli / Models	Cod.	€
	400	400	95	200	HCN 4000 - NEXUS 4000III	8.86.4040MAZ	on request
	500	500	95	200	HCN 5000 - HCN 5000/50 NEXUS 5000III - NEXUS 6000II	8.86.5050MAZ	on request
	630	630	122	320	HCN 6800 - NEXUS 6800 II 6800 II HM PACKAGE	8.86.6363MAZ	7.792
	800	800	146	400	M 8800 - HCN 8800 NEXUS 8800II - MEGA 8800	8.86.8080MAZ	on request
	1000	1000	-	-	M 10800 - HCN 10800 NEXUS 10800II - 10800II HM PACKAGE	8.86.1010MAZ	on request

PALLET DOOSAN

DOOSAN PALLET

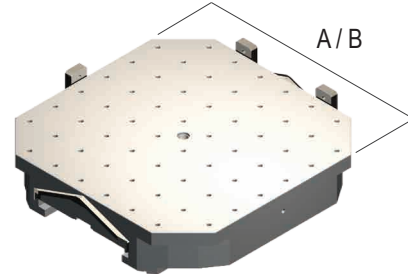


Ghisa monoblocco **G30** stabilizzata con doppio trattamento di distensione. **Massima precisione**
Solid cast iron cast **G30** with double stress relieving heat treatment. **Highest accuracy**



Art. 85

Pallet a reticolo con fori integrali M16
Grid type pallet with solid threads M16



UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art. 85E

Piastra grande
Big plate

Cod. 8.85.E...MOR*

€ **146**



*Esempio ordine: per art. 85F montato su pallet 500x500 il codice è: 8.85.F5050DOO / *Order example: for Art. 85F mounted on 500x500 pallet the code is: 8.85.F5050DOO

PALLET DOOSAN Art.85

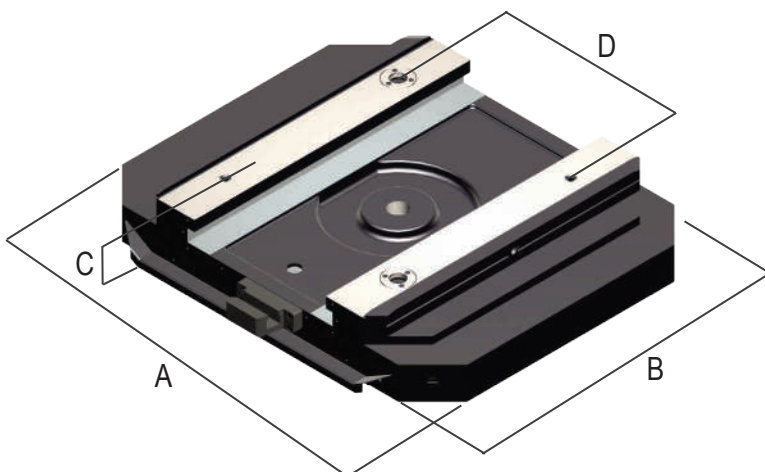
Dimensioni - Dimensions (mm)	A	B	C	D	Modelli / Models	Cod.	€
	1250	1250	268	620	HM - 1250	8.85.125125DO	21.559

PALLET MANDELLI

MANDELLI PALLET

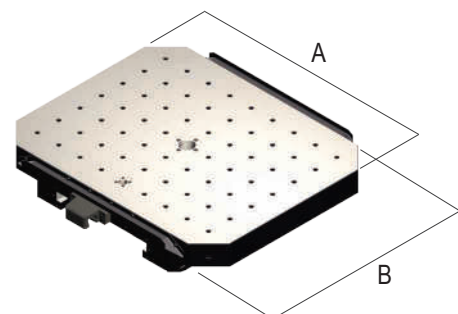


Ghisa monoblocco **G30** stabilizzata con doppio trattamento di distensione. **Massima precisione**
Solid cast iron cast **G30** with double stress relieving heat treatment. **Highest accuracy**



Art. 85

Pallet a reticolo con fori integrali M16
Grid type pallet with solid threads M16



PALLET MANDELLI Art.85

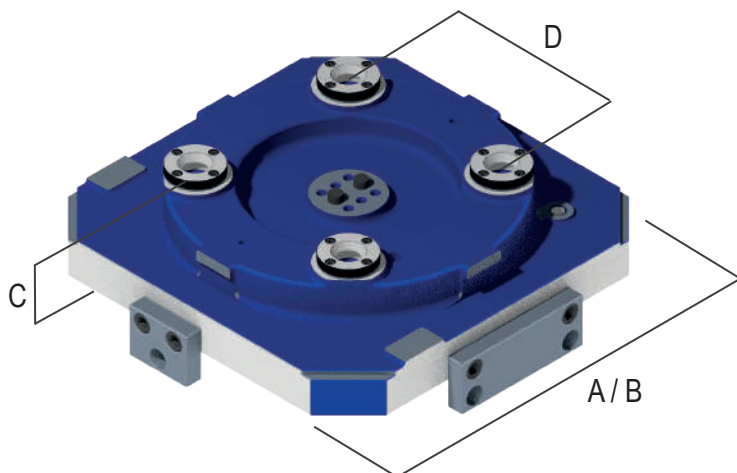
Dimensioni - Dimensions (mm)	A	B	C	D	Modelli / Models	Cod.	€
	800	1000	160	500	SPARK 1600X	8.85.125100MA	<i>on request</i>

PALLET KIWA

KIWA PALLET

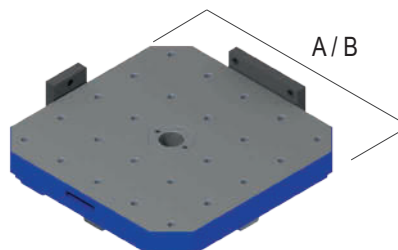


Ghisa monoblocco **G30** stabilizzata con doppio trattamento di distensione. **Massima precisione**
Solid cast iron cast G30 with double stress relieving heat treatment. **Highest accuracy**



Art.85

Pallet a reticolo con fori integrali M16
Grid type pallet with solid threads M16



UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !



Art. 85E

Piastra grande
Big plate

Cod. 8.85.E...KWA*

€ **146**



Art. 85F

Piastra piccola
Small plate

Cod. 8.85.F...KWA*

€ **129**



*Esempio ordine: per art. 85F montato su pallet 500x500 il codice è: 8.85.F5050DOO / *Order example: for Art. 85F mounted on 500x500 pallet the code is: 8.85.F5050DOO

PALLET KIWA Art.85

Dimensioni - Dimensions (mm)	A	B	C	D	Modelli / Models	Cod.	€
	500	500	124,48	240	-	8.85.5050KWA	<i>on request</i>

PREDISPOSIZIONE e MONTAGGIO MORSE su CUBI LAVORATI

TOMBSTONES SET-UP and VISES MOUNTING on MACHINED TOMBSTONES

Art. 53C
Cubo lavorato
 Machined cube


Dim. A=350 / B=500 / H=700

Cod. 8.53.C00171

€ 4.753
Art. 1
Tipo di morsa
 Vise type

 Art.1 Type 4x300
€ 1.232

Cod. 3.04.30000

Numero morse x 4
 Vises number

Tot. € 4.928

MONTAGGIO MORSE in VERTICALE su CUBO INTERFACCIATO

VISE VERTICAL MOUNTING on COMPLETELY INTERFACED TOMBSTONES

Art. 57G
Cubo lavorato
 Machined cube

 Dim. A=200 / B=500 /
 E= 80 H=650

Cod. 8.57.G00105

€ 2.531
Art. 600
Tipo di morsa
 Vise type

 Art.600 Tipo 2x600
€ 1.811

Cod. 6.60.02600

Numero morse x 4
 Vises number

Tot. € 7.244

Predisposizione e montaggio completo

Complete set up & mounting


 Cod. MAN-040-STD
 Cod. MAN-040-FMS
 Cod. MAN-040-POR

 Per morsa / each vise € 220
Tot. € 880

Realizzazione di fori filettati o fori di fissaggio (da un minimo di 4 a un massimo di 6), fori calibrati o chiavette (da un minimo di 2 a un massimo di 3).
 Creation of threaded holes or screw holes (minimum 4 and maximum 6), calibrated holes or key-ways (minimum 2 and maximum 3).

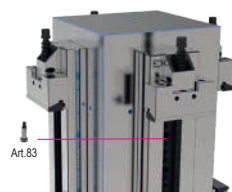
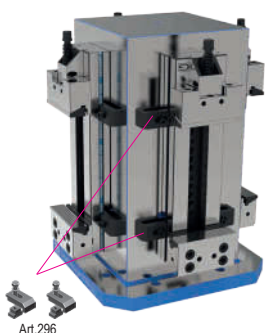
Montaggio ed allineamento (standard)

(Standard) Assembly and alignment

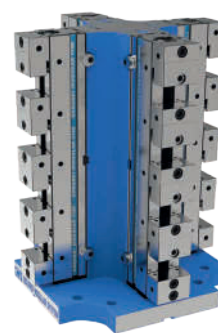

 Cod. MAN-070-STD
 Cod. MAN-070-FMS
 Cod. MAN-070-POR

 Per morsa / each vise € 110
Tot. € 440

Montaggio di una o più morse e/o attrezzature già predisposte tra loro comprensivo di controllo manuale. Il prezzo di listino comprende manodopera, viti, staffe e tasselli per singola morsa.
 Assembly of one or more vises or equipments already interfaced between themselves complete of manual check. The list price includes working hours, screws, holding clamps and key-nuts for only one vise.

Cubo con morse
 Cube with vises

Tot. € 10.561

 TABULATO controllo DEA - MAN-100-POR : € 220 Extra
 PRINTOUT DEA control - MAN-100-POR : € 220 Extra

Cubo con morse
 Cube with vises

Tot. € 10.251

 TABULATO controllo DEA - MAN-100-POR : € 220 Extra
 PRINTOUT DEA control - MAN-100-POR : € 220 Extra



9



Accurate, Quick & Safe

ZERO POINT

Sistema di serraggio / Clamping System

VALIGETTA DI CAMPIONATURA ZERO POINT

SAMPLE KIT CASE ZERO POINT

Art. 982



Morsa / Vise Art. 640

Cod. 0.98.20000

PRICE LIST € ~~4.439~~

SPECIAL PRICE € **2.200**

Art. 640 - All'Interno - Inside:



Art. 982T



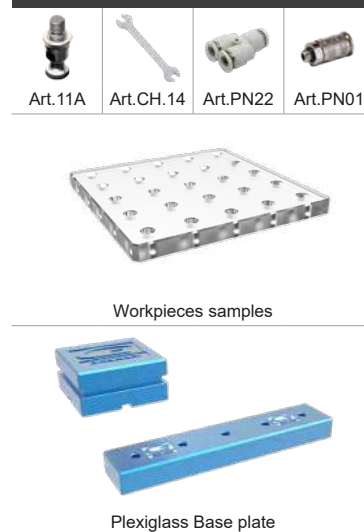
Morsa / Vise Art. 650

Cod. 0.98.2T000

PRICE LIST € ~~5.190~~

SPECIAL PRICE € **2.500**

Art. 650 - All'Interno - Inside:



SIMBOLOGIA DATI TECNICI

TECHNICAL DATA ICONS

ZERO POINT ZERO POINT ZERO POINT							POSSIBILITÀ POSSIBILITY					
	Montaggio multiplo Multiple mounting	Montaggio singolo Single mounting	Doppio Double	Carter per piastre interfacciate Carter for interfaced head plates	Montaggio incassato Built-in mounting	Montaggio con flangia Independent mounting		Doppio effetto Double effect	Predisposizione Zero Point Zero Point ready	Divisore Automatico Automatic dividing head	Divisore Meccanico Mechanical dividing head	Cubi portapezzi Tombstones
TIRANTI E RIALZI PULL-STUDS AND RISERS							PAGINE PAGES					
					Tiranti Pull-stud	Rialzi Risers		Accessori & Ricambi Accessories & Spare Parts	Istruzioni corretto utilizzo Instruction for a proper use			

Sistema / System

ZERO POINT


 Precisione / Accuracy
±0,005mm

 Durezza / Hardened
HRC 58±2

Il nuovo sistema di posizionamento ed ancoraggio istantaneo

The new Gerardi immediate positioning and clamping system

CARATTERISTICHE & VANTAGGI

✓ OTTIMIZZAZIONE DELLA PRODUZIONE

- ✓ IRREVERSIBILE
- ✓ ABBATTIMENTO DEI TEMPI DI ALLESTIMENTO MACCHINA -95%
- ✓ CARICAMENTO DEI PARTICOLARI DA LAVORARE RAPIDO E SEMPLICE
- ✓ RISPARMIO SULLE ATTREZZATURE (Su un solo cubo si possono montare diversi tipi di morse)

TECHNICAL FEATURES & ADVANTAGES

✓ PRODUCTION OPTIMIZATION

- ✓ IRREVERSIBLE
- ✓ MINIMUM MACHINE SET UP TIMES -95%
- ✓ QUICKEST AND SIMPLE LOAD OF WORKPIECES TO BE MACHINED
- ✓ SAVING ON FIXTURES (On the same tombstone you can mount different types of vises)

QUALITÀ GERARDI

✓ RIPETIBILITÀ ENTRO 0,005 MM

- ✓ PINZA ELASTICA INTEGRALE PER UNA MIGLIORE COMPENSAZIONE DI ERRORI DI INTERASSE E DELLE DILATAZIONI
- ✓ POSIZIONAMENTO E RIMOZIONE DELLE ATTREZZATURE RAPIDA E PRECISA
- ✓ TUTTI I COMPONENTI SONO IN ACCIAIO TEMPRATO E RETTIFICATO
- ✓ QUALITÀ GARANTITA DA ANNI DI COLLAUDO NELLA PROPRIA OFFICINA
- ✓ START UP IMMEDIATO! VERIFICA DELLA PRECISIONE DEI SUPPORTI E DELLE ATTREZZATURE CHE MONTANO ZERO-POINT.

GERARDI QUALITY

✓ REPOSITIONING ACCURACY WITHIN 0,005mm

- ✓ INTEGRAL ELASTIC COLLET FOR A BETTER COMPENSATION OF CENTER-TO-CENTER DISTANCE ERROR AND DILATATION
- ✓ ALL COMPONENTS MADE OF SPECIAL ALLOY OF STEEL CASE HARDNED AND GROUND HRC 60
- ✓ QUALITY GUARANTEED BY YEARS OF TESTS AND REAL USE IN OUR WORKSHOP AND 20 YEARS PRODUCTION AND MARKET PRESENCE IN THIS SPECIFIC PRODUCTS
- ✓ IMMEDIATE START UP! GUARANTEE OF DOUBLE CHECK OF ALL THE FIXTURES ASSEMBLED WITH ZERO-POINT BY GERARDI

OTTIMIZZAZIONE DELLA PRODUZIONE

(Riduzione tempi allestimento macchina 95%)

PRODUCTION OPTIMIZATION (95% set-up saving time)



Centri Verticali Vertical CNC

 Lo Zero Point può diventare l'**interfaccia** di tutte le tue attrezzature e anche dei tuoi particolari da lavorare.

 The Zero Point becomes the **interface** of all your fixtures and also your workpieces.

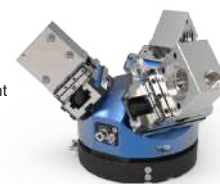

Centri Orizzontali Horizontal CNC

 Lo Zero Point può essere la soluzione ideale per **evolvere** attrezzature già in tuo possesso.

 The Zero Point is also a way to **upgrade** your existing fixtures.


Centri a 5 Assi 5th Axis CNC

Sono possibili applicazioni con l'utilizzo dello Zero Point anche per lavorazioni di particolari su centri a 5 assi.



Also on 5th axis machines the same applications are of course possible.

Tiranti Pull Studs



I tiranti assicurano un corretto allineamento e posizionamento del particolare o dell'attrezzatura da serrare. Esistono tiranti Maschio e tiranti Femmina a secondo dell'applicazione.

The Pull Studs ensure a correct alignment and positioning of the fixtures and can be also assembled directly on the workpiece. They can be male or female according to the application needs.

Incremento Forza Clamping force increase



La funzione DOPPIO EFFETTO, possibile con zero point singoli (ermetici), permette di ottenere parametri di serraggio notevolmente superiori rispetto al normale funzionamento grazie alla valvola di non ritorno. Quando è azionata l'aria compressa aggiunge una forza pneumatica in supporto al normale sistema di serraggio tramite molle.

The DOUBLE EFFECT, possible with the single zero point units (hermetic), allows to get clamping results much higher than the normal thanks to the non-return valve. When the double effect is operated the air adds a pneumatic clamping power which supports and increases the normal clamping through springs.

Lo Zero Point è un sistema di posizionamento ed ancoraggio istantaneo, rappresenta la soluzione ideale per la movimentazione ed il serraggio preciso, rapido e sicuro delle attrezzature sul pallet delle macchine utensili. Lo Zero Point è un sistema "NORMALMENTE CHIUSO", utilizza molle che permettono il bloccaggio del tirante mediante le sfere poste all'interno, mentre l'aria compressa, filtrata e lubrificata, serve solo per lo sbloccaggio di conseguenza non c'è la necessità di tenere tubi collegati all'attrezzatura.

The Zero Point is an immediate positioning and clamping system, that represents the ideal solution for the positioning and the precise, fast and firm clamping of the equipments on the machine tools. The Zero Point is a system "NORMALLY CLOSED", that uses die springs which allows the clamping of the pull-stud through the spheres located inside, while the filtered and lubricated compressed air enables the release only so there is no need to keep pipes connected constantly to the fixture.



SCAN IT TO SEE



THE WEB PAGE



Preciso, Rapido e Sicuro
Accurate, Quick and Safe

Pinze elastiche integrali Solid elastic collets



Il sistema zero-point multiplo (art.664-665) grazie alla **pinza elastica integrale** consente una traslazione laterale che **compensa errori di interassi** e variazioni dovute alla temperatura. Il punto di riferimento centrale rimane costante per garantire una ripetibilità millesimale.

The multiple Zero Point system (Art.664-665) allows, thanks to the solid integral elastic collet, a lateral translation, that solves problems of centre distances and variations caused by the temperature. The central reference point remains steady accuracy within microns.



Attrezzatura o particolare
Fixture or Workpiece



Piastra d'interfaccia
Interface plate



Piastra base Zero Point
Zero Point head plate



L'ermetico
Per applicazioni singole

The Hermetic
For single applications



Il Doppio
scopri di più a pagina 9.34

The Double
discover more page 9.34



Il Classico
Per applicazioni multiple

The Classic
For multiple applications

ZERO POINT PNEUMATICO MULTIPLO (IL CLASSICO)

MULTIPLE PNEUMATIC ZERO POINT (THE CLASSIC)



Ripetibilità entro 0,005 mm
 Repositioning accuracy within 0,005 mm

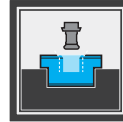
Art. 664

Con flangia
 With flange



Art. 665

Incassato
 Built-in mounting



✓ Forza di serraggio 5 ÷ 42 kN / ✓ Forza di arresto fino a 80 kN / ✓ Sbloccaggio ad aria 6 ÷ 7 bar / ✓ Sistema irreversibile / ✓ Compensazione assiale e radiale grazie alla pinza elastica integrale / ✓ Doppio centraggio per tirante per massima rigidità / ✓ Pulizia ad aria / ✓ Chiavetta antirotazione
 ✓ Clamping force 5 ÷ 42 kN / ✓ Holding force more up to 80 kN / ✓ Irreversible system / ✓ Pneumatic release 6 ÷ 7 bar / ✓ Axial and radial compensation thanks to elastic integral collet / ✓ Double pull-stud centering for Max rigidity / ✓ Air cleaning / ✓ Antirotation keyway

ZERO POINT PNEUMATICO SINGOLO (L'ERMETICO)

SINGLE PNEUMATIC ZERO POINT (THE HERMETIC)

Ripetibilità entro 0,005 mm
 Repositioning accuracy within 0,005 mm



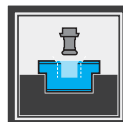
Art. 664S

Con flangia
 With flange



Art. 665S

Incassato
 Built-in mounting



✓ Forza di serraggio 5 ÷ 42 kN / ✓ Forza di arresto fino a 80 kN / ✓ Sbloccaggio ad aria 6 ÷ 7 bar / ✓ Sistema irreversibile / ✓ Compensazione assiale e radiale grazie alla pinza elastica integrale / ✓ Doppio centraggio per tirante per massima rigidità / ✓ Pulizia ad aria / ✓ Chiavetta antirotazione / ✓ **Doppio effetto**
 ✓ Clamping force 5 ÷ 42 kN / ✓ Holding force more up to 80 kN / ✓ Irreversible system / ✓ Pneumatic release 6 ÷ 7 bar / ✓ Axial and radial compensation thanks to elastic integral collet / ✓ Double pull-stud centering for Max rigidity / ✓ Air cleaning / ✓ Antirotation keyway / ✓ **Double effect**

ZERO POINT PNEUMATICO DOPPIO

DOUBLE PNEUMATIC ZERO POINT

Ripetibilità entro 0,005 mm
 Repositioning accuracy within 0,005 mm

✓ Forza di serraggio 5 ÷ 42 kN / ✓ Forza di arresto fino a 80 kN / ✓ Sbloccaggio ad aria 6 ÷ 7 bar / ✓ Compensazione assiale e radiale grazie alla pinza elastica integrale / ✓ Doppio centraggio per tirante per massima rigidità / ✓ Pulizia ad aria / ✓ Chiavetta antirotazione /

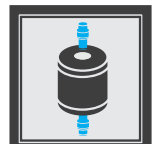
✓ **Possibile versione con doppio effetto**

✓ Clamping force 5 ÷ 42 kN / ✓ Holding force more up to 80 kN / ✓ Pneumatic release 6 ÷ 7 bar / ✓ Axial and radial compensation thanks to elastic integral collet / ✓ Double pull-stud centering for Max rigidity / ✓ Air cleaning / ✓ Antirotation keyway / ✓ **Double effect type also possible**

Art. 665T

Doppio
 Double

Vedi Pag. 9.34 - 9.35
 See pages 9.34 - 9.35

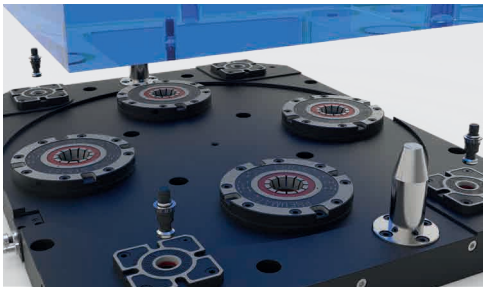


Soluzioni personalizzate / Customized solutions

Zero Point system

Soluzioni personalizzate a tutti i vostri problemi di serraggio

Customized solutions for all your clamping problems

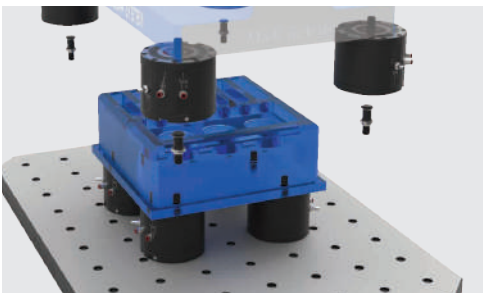


Doppio interasse

Double centre to centre distance

Piastra provvista di 4 unità Zero Point Tipo 2 e 4 unità Zero Point Tipo 1, disposte agli angoli permettendo il serraggio di particolari di grandi dimensioni con maggior stabilità

The head plate is also supplied with 4 Zero Point units Type 2 & 4 Zero Point units Type 1 located on the 4 edges that allow a higher stability when clamping workpieces of big dimensions.



Zero Point doppio, estrema versatilità

Double Zero Point. Extreme versatility

Le unità Zero Point doppie possono infatti essere posizionate a diversi interassi tramite piastre a reticolo o dedicate

Double Zero Point units can be positioned with different pitches on specific grid plates.



Una sola connessione per ancorarli tutti

Only one connection to clamp them all

Piastra base provvista di 6 unità Zero Point SINGOLI incassati. L'ancoraggio delle morse avviene in maniera simultanea tramite un unico comando ed un unico tirante

Base plate provided with 6 built-in SINGLE Zero Point units. Vise clamping performed through 1 single operation and 1 pull stud only



Zero Point su tavola girevole

Zero Point on Haas rotary table

Attrezzatura speciale con Zero Point applicata su tavola girevole HAAS

Special aluminum Zero Point fixture on HAAS rotary table



Non solo per centri a 5 assi

Not Only for 5 axis machining centres

Abbiamo calcolato che l'automazione della configurazione a 4 assi con un sistema Zero Point era più efficiente di una macchina a 5 assi a causa del numero di cambi utensile per pezzo.

We calculated that automating the 4 axis setup was more efficient through a Zero Point system than a 5 axis machine due to the number of tool changes per part.

OPZIONI DI INCREMENTO PRESSIONE ARIA INCREASE AIR PRESSURE OPTIONS

Sistema di moltiplicazione di pressione aria con rapporto 1:2 per Zero point multiplo tipo 2
 Mediante questo sistema vi è la possibilità di variare il numero e/o la tipologia di molle all' interno dello zero-point per avere una maggiore forza di serraggio *

Set for air overpressure with ratio 1:2 for multiple type 2 Zero point
 This set allows the springs variation in type and/or quantity on the zero-point, to obtain a superior clamping strength *

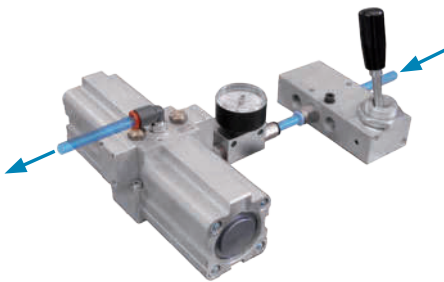
AIR OUTPUT X2

Art. 408

Pressione ingresso / Input pressure	3 Bar	4 Bar	5 Bar	6 Bar	7 Bar
Pressione uscita / Output pressure	6 Bar	8 Bar	10 Bar	12 Bar	14 Bar

Cod. 9.40.80000

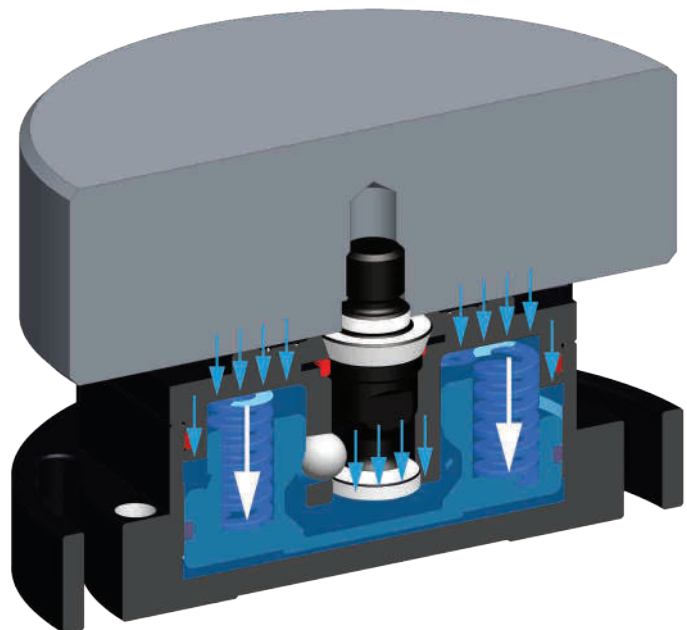
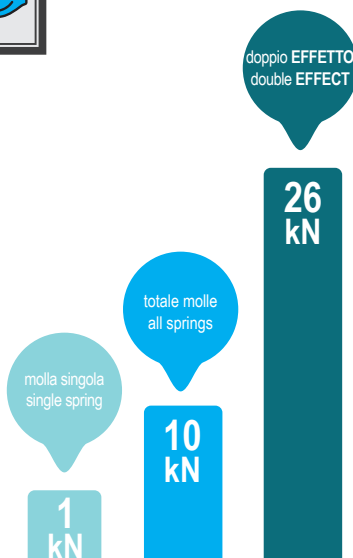
€ 887



OPZIONI DI INCREMENTO FORZA DI SERRAGGIO ZERO-POINT SINGOLO SINGLE ZERO-POINT OPTIONS FOR CLAMPING POWER INCREASE

La funzione DOPPIO EFFETTO, possibile con zero point SINGOLI (ermetici), permette di ottenere parametri di serraggio notevolmente superiori rispetto al normale funzionamento grazie alla valvola di non ritorno. Quando è azionata l' aria compressa aggiunge una forza pneumatica in supporto al normale sistema di serraggio tramite molle.

The DOUBLE EFFECT, always possible with the SINGLE zero point units (hermetic), allows to get clamping results much higher than the normal thanks to the non-return valve. When the double effect is operated the air adds a pneumatic clamping power which supports and increases the normal clamping through springs



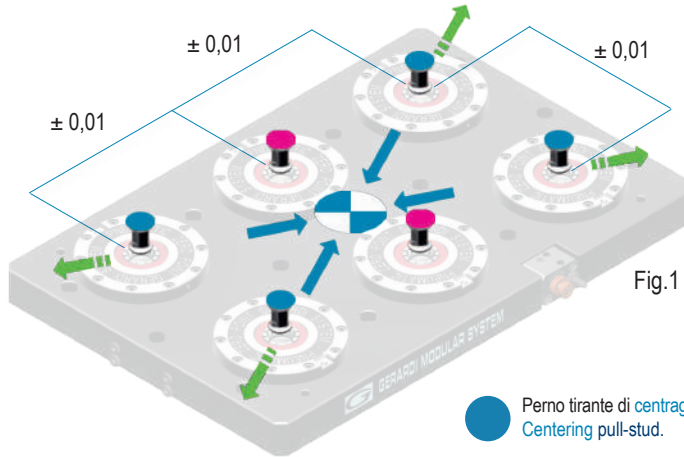
Comparazione kN tra serraggio standard e sistema DOPPIO EFFETTO per Zero Point Art. 665S tipo 2.
 kN comparison between standard clamping and DOUBLE EFFECT for Zero Point Art. 665S type 2

DISPOSIZIONE DEI TIRANTI CON ZERO POINT MULTIPLI

PULL-STUDS POSITIONING WITH MULTIPLE ZERO POINT

Il sistema zero-point multiplo (art.664-665) grazie alla pinza elastica integrale consente una traslazione laterale che **compensa errori di interassi** ed anche variazioni dovute alla temperatura. Il punto di riferimento centrale rimane costante ed è corretto utilizzare tiranti di posizionamento fino ad un massimo di 4 alternati a tiranti di solo serraggio. (Vedi Fig.1)

The multiple zero-point system (art.664-665) allows, thanks to the solid integral elastic collet a lateral translation, **that solves problems of centre distances** and also variations caused by the temperature. The central reference point remains steady and it is correct to use positioning pull-studs, up to maximum 4 together with clamping pull-studs. (See picture 1)

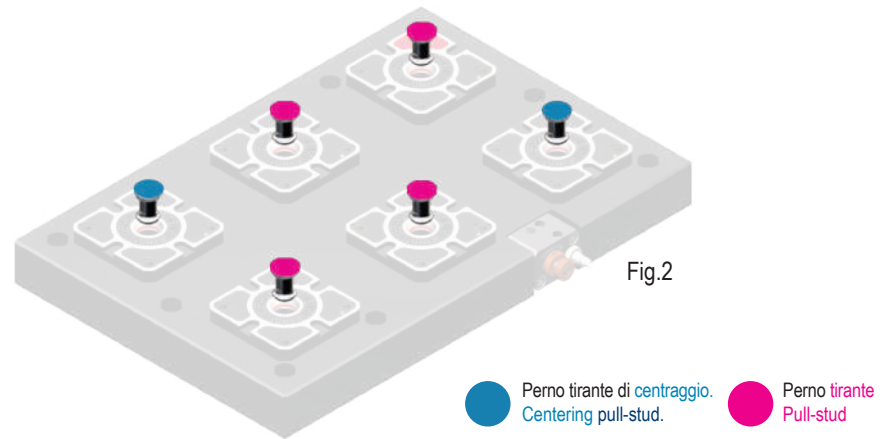


DISPOSIZIONE DEI TIRANTI CON ZERO POINT SINGOLI

PULL-STUDS POSITIONING WITH SINGLE ZERO POINT

L'applicazione di più Zero Point Singoli Art.665S sulla stessa tavola non permette la traslazione laterale disponibile con gli zero point multipli. Necessita di due tiranti di posizionamento massimo alternati a tiranti di solo serraggio. (Vedi Fig.2)

The application of several single zero point Art.664S / 665S on the same machine table doesn't enable a lateral translation available with the multiple zero point. Therefore it needs maximum 2 centering pull studs alternated to clamping pull studs. (See picture 2)



ABBATTIMENTO TEMPI DI ALLESTIMENTO MACCHINA

PRODUCTION OPTIMIZATION

La tabella illustra il costo del piazzamento di una macchina.

Il sistema Zero Point vi permette di rimuovere in pochi secondi i lavori sulla macchina e preparare un nuovo lavoro/morsa quando il lavoro precedente è ultimato, risparmiando quasi il 95% sui tempi di allestimento.

Ipoteticamente dovendo impiegare 2 ore al giorno a € 40,00 all'ora per attrezzare ogni macchina, attrezzare 5 macchine a CNC vi costa all'incirca € 100.000 in profitti persi ogni anno. Il sistema Zero Point vi permette di salvare centinaia di ore di "tempi morti" e avere più profitti.

The table illustrates how much it costs on just 1 machine to set up jobs on the machine.

Zero Point allows you to set up jobs off the machine and position the new job/vise in few seconds on the machine when the last job finishes, saving around 95% set up time.

5 CNC machines being set 2 hours a day @ € 40,00 an hour is costing you at least € 100.000 in lost profits every year.

Zero Point will allow you to save hundreds of hours in down time and make thousands more in profits.

TEMPI DI ALLESTIMENTO MACCHINA - MACHINE SET-UP TIMES

Costo orario della macchina Machine cost per hour	Tempo giornaliero utilizzato per l'attrezzaggio Time per day machine spent being set up	Costo annuale dei "tempi morti" Cost per year of down time*	Potenziale profitto extra con gli Zero Point Zero Point potential extra profit
€ 25,00	2 ORE 2 HOURS	- € 12.500 persi lost	- € 11.875 risparmio savings
€ 40,00	2 ORE 2 HOURS	- € 20.000 persi lost	- € 19.000 risparmio savings
€ 60,00	2 ORE 2 HOURS	- € 30.000 persi lost	- € 28.500 risparmio savings
€ 75,00	2 ORE 2 HOURS	- € 37.500 persi lost	- € 35.625 risparmio savings

* Basato su 5 giorni lavorativi, 50 settimane per anno (250 giorni lavorativi) - Based on a 5 days working week, 50 weeks per year (250 working days)

PNEUMATICO PER APPLICAZIONI MULTIPLE TIPO 1

PNEUMATIC FOR MULTIPLE APPLICATIONS TYPE 1

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	1 up to 12,5 kN
---	----	--------------------

Pressione apertura / Opening pressure	BAR	6
	kg	1,5

Art. 665



Zero-Point pneumatico montaggio incassato (ERMETICO)

Pneumatic Zero-Point built-in mounting (ERMETIC)

EXTRA, chiavette o fori calibrati su richiesta
 EXTRA keyways or calibrated holes on request



- Dotazione standard:
 ■ 1 tirante Art.11A/10A
 ■ 1 tappo teflon con O-Ring Art.9

- Standard equipment:
 ■ 1 Pull-stud Art.11A/10A
 ■ Teflon cap with O-Ring Art.9

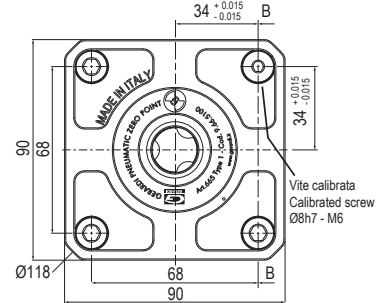
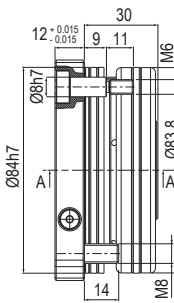
Cod.	9.66.51000
€	509

Forza di serraggio - Clamping power

Pressione apertura Opening pressure (bar)	Forza di serraggio Clamping force (kN)	Doppio effetto Double effect (kN)
4	2,4	7,5
5	3,6	10
6	5	12,5

CARATTERISTICHE TECNICHE - TECHNICAL FEATURES

- ✓ Forza di serraggio 5 ÷ 12,5 kN / ✓ Forza di arresto oltre a 40 kN / ✓ Sbloccaggio ad aria / ✓ Sistema irreversibile / ✓ Compensazione assiale e radiale grazie alla pinza elastica integrale / ✓ Pulizia ad aria / ✓ Doppio effetto / ✓ Doppio centraggio per tirante per massima rigidità
- ✓ Clamping force 5 ÷ 12,5 kN / ✓ Holding force more than 40 kN / ✓ Pneumatic release / ✓ Irreversible system / ✓ Axial and radial compensation thanks to elastic integral collet / ✓ Air cleaning / ✓ Double effect / ✓ Double pull-stud centering for Max rigidity



TIRANTI - PULL-STUDS

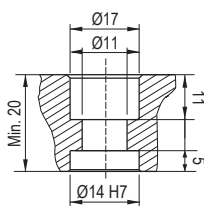
Art. 10A

TIPO 1 / TYPE 1

Perno tirante di **centraggio**.
 Filetto femmina

Centering pull-stud.
 Female thread

(Vedi / See pag. 9.40)



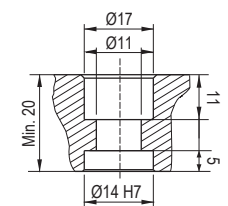
Art. 10B

TIPO 1 / TYPE 1

Perno **tirante**.
 Filetto femmina

Clamping pull-stud.
 Female thread

(Vedi / See pag. 9.40)



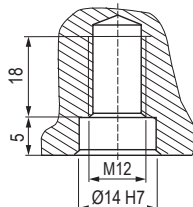
Art. 11A

TIPO 1 / TYPE 1

Perno tirante di **centraggio**.
 Filetto maschio

Centering pull-stud.
 Male thread

(Vedi / See pag. 9.40)



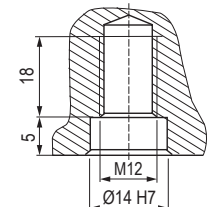
Art. 11B

TIPO 1 / TYPE 1

Perno **tirante**.
 Filetto maschio

Clamping pull-stud.
 Male thread

(Vedi / See pag. 9.40)



ZERO POINT KIT

Art. 665K

Parti di ricambio per Zero-Point singolo
 Single Zero Point spare parts



Kit Tipo1 Type 1 Kit

Cod.	9.66.5K100
€	55

PNEUMATICO FLANGIATO PER APPLICAZIONI MULTIPLE TIPO 1

PNEUMATIC FLANGE MOUNTING FOR MULTIPLE APPLICATIONS TYPE 1

Tipo (grandezza) Zero-Point Zero-Point type (size)		1 up to 12,5 kN
Pressione apertura / Opening pressure	BAR	6
	kg	3,2
	Cod.	9.66.41000
	€	632

Art. 664

Zero-Point pneumatico FLANGIATO (ERMETICO)
Zero-Point FLANGE mounting (ERMETIC)

- Dotazione standard:
 ■ 1 tirante Art.11A/10A
 ■ 1 tappo teflon con O-Ring Art.9

- Standard equipment:
 ■ 1 Pull-stud Art.11A/10A
 ■ Teflon cap with O-Ring Art.9

Pulizia / Doppio effetto
Cleaning / Double effect

Bloccaggio
Sbloccaggio - Lock / Unlock

Tipo (grandezza) Zero-Point Zero-Point type (size)		1 up to 12,5 kN
Pressione apertura / Opening pressure	BAR	6
	kg	3,3
	Cod.	9.66.5X100
	€	605

Art. 665X

Zero-Point pneumatico incassato con FLANGIA montaggio verticale per applicazioni su portapezzi (ERMETICO)
Pneumatic Zero-Point FLANGE mounting vertical mounting for tombstone applications (ERMETIC)

- Dotazione standard:
 ■ 1 tirante Art.11A/10A
 ■ 1 tappo teflon con O-Ring Art.9

- Standard equipment:
 ■ 1 Pull-stud Art.11A/10A
 ■ Teflon cap with O-Ring Art.9

Tipo (grandezza) Zero-Point Zero-Point type (size)		1 up to 12,5 kN
Pressione apertura / Opening pressure	BAR	6
	kg	15,5
	Cod.	9.64.10000
	€	1.941

Art. 64

Rialzo doppio con Zero Point
Double riser with Zero Point

- Dotazione standard:
 ■ 2 tiranti Art.11A/10A
 ■ 2 tappi in teflon con O-Ring Art.9
 ■ 1 perno di centraggio Art.640P (Indicare dimensione in fase d'ordine)
 ■ 2 spine di orientamento Art.79

- Standard equipment:
 ■ 2 Pull-stud Art.11A/10A
 ■ 2 Teflon caps with O-Ring Art.9
 ■ 1 positioning pin Art.640P (Dimension to be advised at order)
 ■ 2 shoulders calibrated pins Art.79

PNEUMATICO SINGOLO TIPO 1

PNEUMATIC SINGLE TYPE 1

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	1 up to 12,5 kN
---	----	---------------------------

Pressione apertura / Opening pressure	BAR	6
	kg	1,5
	Cod.	9.66.5S100
	€	610

Art. 665S



Zero-Point pneumatico montaggio incassato (ERMETICO)

Pneumatic Zero-Point built-in mounting (ERMETIC)

Chiavette comprese nel prezzo
Keyways included in the price



- Dotazione standard:
■ 1 tirante Art.11A/10A
■ 1 tappo teflon con O-Ring Art.9

- Standard equipment:
■ 1 Pull-stud Art.11A/10A
■ Teflon cap with O-Ring Art.9

Forza di serraggio - Clamping power

Pressione apertura Opening pressure (bar)	Forza di serraggio Clamping force (kN)	Doppio effetto Double effect (kN)
4	2,4	7,5
5	3,6	10
6	5	12,5

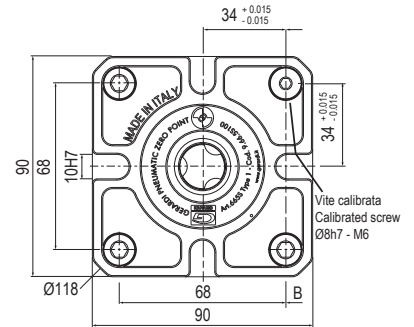
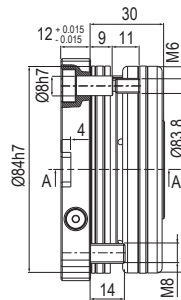
Un solo Zero Point per ogni morsa, attrezzatura o particolare da serrare
Only one Zero point for each vise, fixture or workpiece to be clamped

example



CARATTERISTICHE TECNICHE - TECHNICAL FEATURES

- ✓ Forza di serraggio 5 ÷ 12,5 kN / ✓ Forza di arresto oltre a 40 kN / ✓ Sbloccaggio ad aria / ✓ Sistema irreversibile / ✓ Compensazione assiale e radiale grazie alla pinza elastica integrale / ✓ Pulizia ad aria / ✓ Doppio effetto / ✓ Doppio centraggio per tirante per massima rigidità
- ✓ Clamping force 5 ÷ 12,5 kN / ✓ Holding force more than 40 kN / ✓ Pneumatic release / ✓ Irreversible system / ✓ Axial and radial compensation thanks to elastic integral collet / ✓ Air cleaning / ✓ Double effect / ✓ Double pull-stud centering for Max rigidity

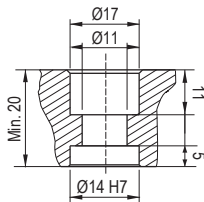


TIRANTI - PULL-STUDS

Art. 10A

TIPO 1 / TYPE 1

Perno tirante.
Filetto femmina
Clamping pull-stud.
Female thread

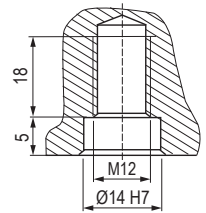


(Vedi / See pag. 9.40)

Art. 11A

TIPO 1 / TYPE 1

Perno tirante.
Filetto maschio
Clamping pull-stud.
Male thread



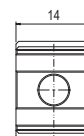
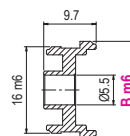
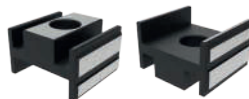
(Vedi / See pag. 9.40)

TASSELLI A GIOCO ZERO

NO-GAP KEY NUTS

Art. 297X

Tasselli a Gioco Zero per il posizionamento preciso di morse singole su zero point
NO-GAP key nuts for accurate single vise positioning on zero point



B	12 - 14 - 16 - 18 - 20
Cod.	297X1612 / 14 / 16 / 18 / 20
€	34

KIT VERSIONE S

KIT S VERSION

Art. 665SK

Parti di ricambio per Zero-Point singolo
Single Zero Point spare parts



	Kit Tipo1 Type 1 Kit
Cod.	9.66.5SK10
€	55

PNEUMATICO FLANGIATO PER APPLICAZIONI SINGOLE TIPO 1

PNEUMATIC FLANGE MOUNTING FOR SINGLE APPLICATIONS TYPE 1

Tipo (grandezza) Zero-Point
 Zero-Point type (size)

kN

1

up to 12,5 kN

Pressione apertura / Opening pressure

BAR

6

kg

3,2

Cod.

9.66.4S100

€

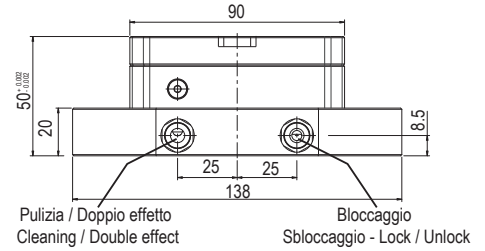
732

Art. 664S



Zero-Point pneumatico
 FLANGIATO (ERMETICO)

Zero-Point FLANGE mounting
 (ERMETIC)



- Dotazione standard:

■ 1 tirante Art.11A/10A

■ 1 tappo teflon con O-Ring Art.9

- Standard equipment:

■ 1 Pull-stud Art.11A/10A

■ Teflon cap with O-Ring Art.9

Tipo (grandezza) Zero-Point
 Zero-Point type (size)

kN

1

up to 12,5 kN

Pressione apertura / Opening pressure

BAR

6

kg

3,3

Cod.

9.66.5SX10

€

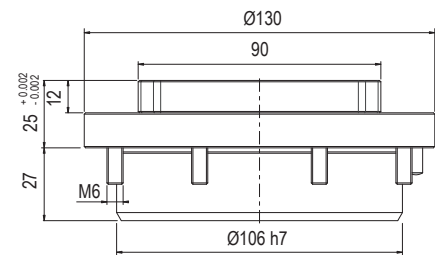
707

Art. 665SX



Zero-Point pneumatico
 incassato con FLANGIA
 montaggio verticale per applicazioni su
 portapezzi (ERMETICO)

Pneumatic Zero-Point
 FLANGE mounting
 vertical mounting for tombstone
 applications (ERMETIC)



- Dotazione standard:

■ 1 tirante Art.11A/10A

■ 1 tappo teflon con O-Ring Art.9

- Standard equipment:

■ 1 Pull-stud Art.11A/10A

■ Teflon cap with O-Ring Art.9

Tipo (grandezza) Zero-Point
 Zero-Point type (size)

kN

1

up to 12,5 kN

Pressione apertura / Opening pressure

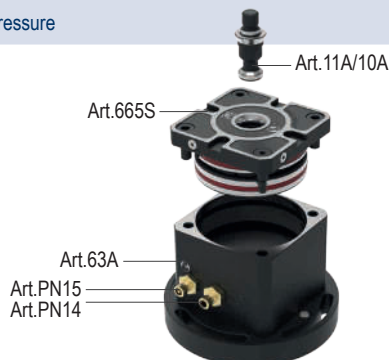
BAR

6

Art. 63

Rialzo singolo
 con Zero Point

Single riser
 with Zero Point



- Dotazione standard:

■ 1 tirante Art.11A / 10A

■ 1 tappo in teflon con O-Ring Art.9

■ 1 perno di centraggio Art.640P

(Indicare dimensione in fase d'ordine)

■ 1 spina calibrata Art. 83

- Standard equipment:

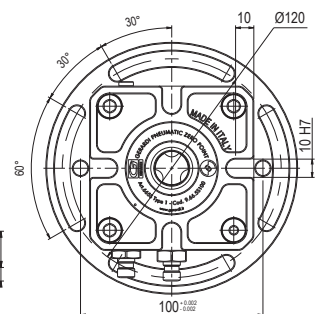
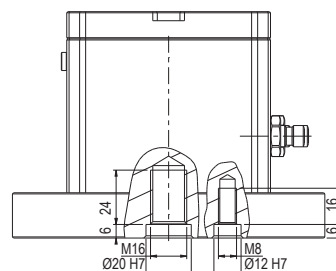
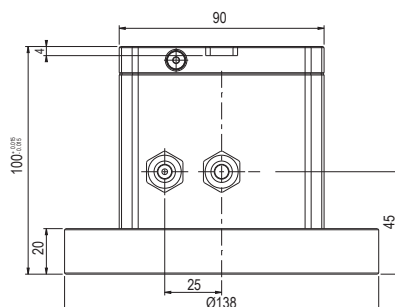
■ 1 Pull-stud Art.11A / 10A

■ 1 Teflon cap with O-Ring Art.9

■ 1 positioning pin Art.640P

(Dimension to be advised at order)

■ 1 shoulder calibrated screw Art.83



PNEUMATICO PER APPLICAZIONI **MULTIPLE TIPO 2**

PNEUMATIC FOR **MULTIPLE** APPLICATIONS TYPE 2

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	2 up to 15 kN
Pressione apertura / Opening pressure	BAR	7 ÷ 14
	kg	2,7
	Cod.	9.66.5200
	€	826

Art. 665

Zero-Point pneumatico
 montaggio incassato (CLASSICO)

Pneumatic Zero-Point
 built-in mounting (CLASSIC)

EXTRA, chiavette o fori calibrati su richiesta
 EXTRA keyways or calibrated holes on request



- Dotazione standard:
 ■ 1 tirante Art.11A/10A
 ■ 1 tappo teflon con O-Ring Art.9

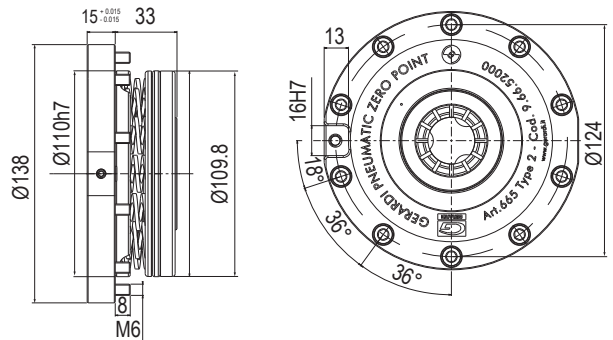
- Standard equipment:
 ■ 1 Pull-stud Art.11A/10A
 ■ Teflon cap with O-Ring Art.9



*Per raggiungere pressioni di apertura 14 bar è consigliato l'utilizzo dell' Art.408
 To achieve 14 bar opening pressure we suggested to use the Art.408

CARATTERISTICHE TECNICHE - TECHNICAL FEATURES

- ✓ Forza di serraggio 11 ÷ 15 kN / ✓ Forza di arresto oltre a 60 kN / ✓ Sbloccaggio ad aria / ✓ Sistema irreversibile / ✓ Compensazione assiale e radiale grazie alla pinza elastica integrale / ✓ Pulizia ad aria / ✓ Doppio centraggio per tirante per massima rigidità
- ✓ Clamping force 11 ÷ 15 kN / ✓ Holding force more than 60 kN / ✓ Pneumatic release / ✓ Irreversible system / ✓ Axial and radial compensation thanks to elastic integral collet / ✓ Air cleaning / ✓ Double pull-stud centering for Max rigidity



TIRANTI - PULL-STUDS

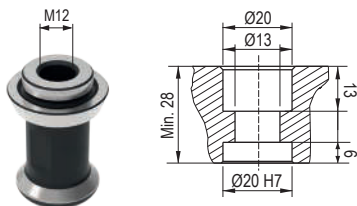
Art. 10A

TIPO 2 / TYPE 2

Perno tirante di **centraggio**.
 Filetto femmina

Centering pull-stud.
 Female thread

(Vedi / See pag. 9.41)



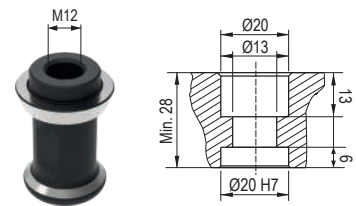
Art. 10B

TIPO 2 / TYPE 2

Perno **tirante**.
 Filetto femmina

Clamping pull-stud.
 Female thread

(Vedi / See pag. 9.41)



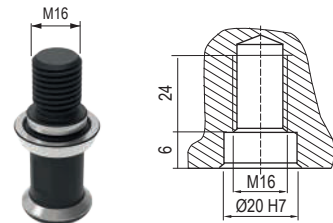
Art. 11A

TIPO 2 / TYPE 2

Perno tirante di **centraggio**.
 Filetto maschio

Centering pull-stud.
 Male thread

(Vedi / See pag. 9.41)



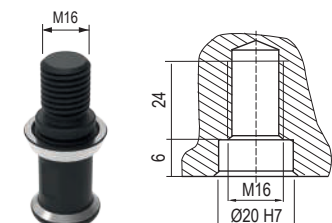
Art. 11B

TIPO 2 / TYPE 2

Perno **tirante**.
 Filetto maschio

Clamping pull-stud.
 Male thread

(Vedi / See pag. 9.41)



ZERO POINT KIT

Art. 665K

Parti di ricambio per Zero-Point
 Zero Point spare parts



Kit Tipo2 Type 2 Kit	
Cod.	9.66.5K200
€	75

PNEUMATICO FLANGIATO PER APPLICAZIONI MULTIPLE TIPO 2

PNEUMATIC FLANGE MOUNTING FOR MULTIPLE APPLICATIONS TYPE 2

Tipo (grandezza) Zero-Point
 Zero-Point type (size)

kN

2
 up to 15 kN

Pressione apertura / Opening pressure

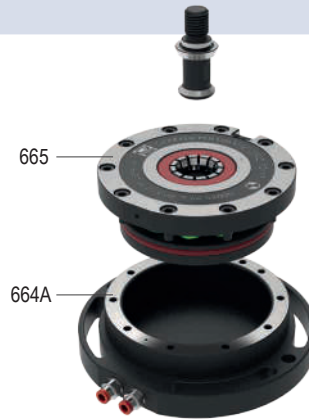
BAR

7 ÷ 14

Art. 664

Zero-Point pneumatico FLANGIATO
 (CLASSICO)

Zero-Point FLANGE mounting
 (CLASSIC)



- Dotazione standard:

■ 1 tirante Art.11A/10A

■ 1 tappo teflon con O-Ring Art.9

- Standard equipment:

■ 1 Pull-stud Art.11A/10A

■ Teflon cap with O-Ring Art.9

kg

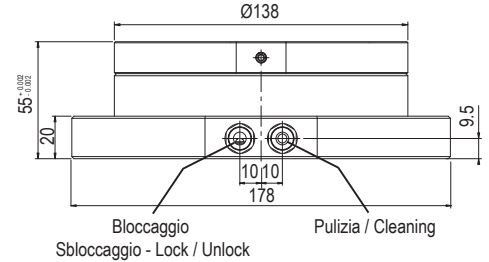
5,7

Cod.

9.66.42000

€

951



Tipo (grandezza) Zero-Point
 Zero-Point type (size)

kN

2
 up to 15 kN

Pressione apertura / Opening pressure

BAR

7 ÷ 14

Art. 665X

Zero-Point pneumatico
 incassato con FLANGIA
 montaggio verticale per applicazioni su
 portapezzi CLASSICO)

Pneumatic Zero-Point
 FLANGE mounting
 vertical mounting for tombstone
 applications (CLASSIC)



- Dotazione standard:

■ 1 tirante Art.11A/10A

■ 1 tappo teflon con O-Ring Art.9

- Standard equipment:

■ 1 Pull-stud Art.11A/10A

■ Teflon cap with O-Ring Art.9

kg

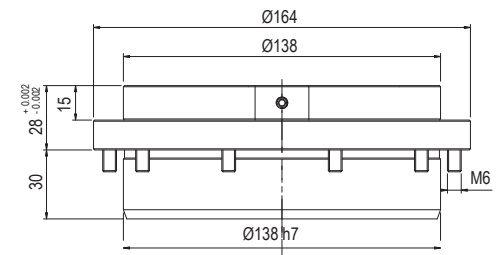
5,7

Cod.

9.66.5X200

€

951



Tipo (grandezza) Zero-Point
 Zero-Point type (size)

kN

2
 up to 15 kN

Pressione apertura / Opening pressure

BAR

7 ÷ 14

Art. 64

Rialzo doppio
 con Zero Point

Double riser
 with Zero Point



- Dotazione standard:

■ 2 tiranti Art.11A / 10A

■ 2 tappi in teflon con O-Ring Art.9

■ 1 perno di centraggio Art.640P

(Indicare dimensione in fase d'ordine)

■ 2 spine di orientamento Art.79

- Standard equipment:

■ 2 Pull-stud Art.11A / 10A

■ 2 Teflon caps with O-Ring Art.9

■ 1 positioning pin Art.640P

(Dimension to be advised at order)

■ 2 shoulders calibrated pins Art.79

kg

Alluminio - Aluminum

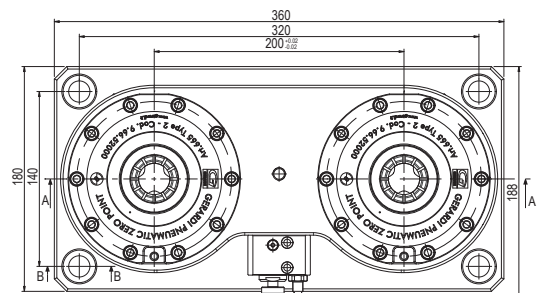
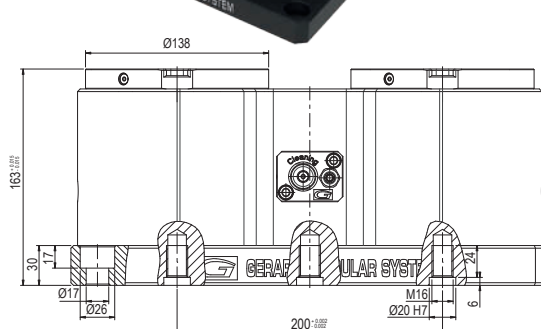
24,3

Cod.

9.64.20000

€

3.448



PNEUMATICO SINGOLO TIPO 2

PNEUMATIC SINGLE TYPE 2

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	2 up to 26 kN
Pressione apertura / Opening pressure	BAR	6
	kg	2,5
	Cod.	9.66.5S200
	€	914

Art. 665S



Zero-Point pneumatico montaggio incassato (ERMETICO)

Pneumatic Zero-Point built-in mounting (ERMETIC)

Chiavette comprese nel prezzo
Keyways included in the price



- Dotazione standard:
■ 1 tirante Art.11S/10S
■ 1 tappo teflon con O-Ring Art.9

- Standard equipment:
■ 1 Pull-stud Art.11S/10S
■ Teflon cap with O-Ring Art.9

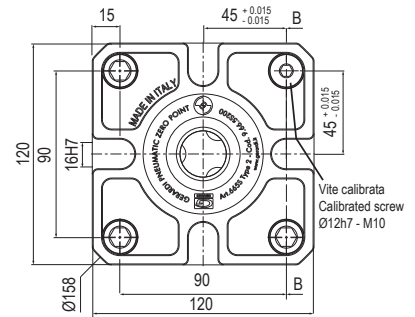
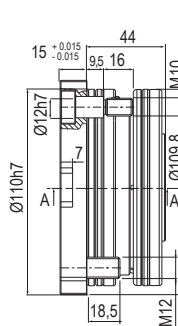
Forza di serraggio - Clamping power		
Pressione apertura Opening pressure (bar)	Forza di serraggio Clamping force (kN)	Doppio effetto Double effect (kN)
4	4,9	12,5
5	7,3	20
6	9,3	26

Un solo Zero Point per ogni morsa, attrezzatura o particolare da serrare
Only one Zero point for each vise, fixture or workpiece to be clamped



CARATTERISTICHE TECNICHE - TECHNICAL FEATURES

- ✓ Forza di serraggio 10 ÷ 26 kN / ✓ Forza di arresto oltre a 60 kN / ✓ Sbloccaggio ad aria / ✓ Sistema irreversibile / ✓ Compensazione assiale e radiale grazie alla pinza elastica integrale / ✓ Pulizia ad aria / ✓ Doppio effetto / ✓ Doppio centraggio per tirante per massima rigidità
- ✓ Clamping force 10 ÷ 26 kN / ✓ Holding force more than 60 kN / ✓ Pneumatic release / ✓ Irreversible system / ✓ Axial and radial compensation thanks to elastic integral collet / ✓ Air cleaning / ✓ Double effect / ✓ Double pull-stud centering for Max rigidity



TIRANTI - PULL-STUDS

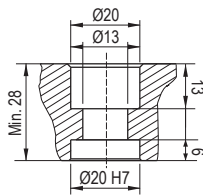
Art. 10S

TIPO 2 / TYPE 2

Perno tirante.
Filetto femmina

Clamping pull-stud.
Female thread

(Vedi / See pag. 9.40)



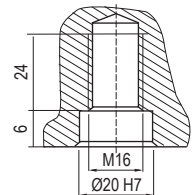
Art. 11S

TIPO 2 / TYPE 2

Perno tirante.
Filetto maschio

Clamping pull-stud.
Male thread

(Vedi / See pag. 9.40)

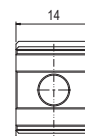
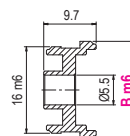


TASSELLI A GIOCO ZERO

NO-GAP KEY NUTS

Art. 297X

Tasselli a Gioco Zero per il posizionamento preciso di morse singole su zero point
NO-GAP key nuts for accurate single vise positioning on zero point



B	12 - 14 - 16 - 18 - 20
Cod.	297X1612 / 14 / 16 / 18 / 20
€	34

KIT VERSIONE S

KIT S VERSION

Art. 665SK

Parti di ricambio per Zero-Point singolo
Single Zero Point spare parts



Kit Tipo 2 Type 2 Kit	
Cod.	9.66.5SK20
€	75

PNEUMATICO FLANGIATO PER APPLICAZIONI SINGOLE TIPO 2

PNEUMATIC FLANGE MOUNTING FOR SINGLE APPLICATIONS TYPE 2

Tipo (grandezza) Zero-Point Zero-Point type (size)		kN	2 up to 26 kN
Pressione apertura / Opening pressure		BAR	6
Art. 664S		kg	6,5
Zero-Point pneumatico FLANGIATO (ERMETICO)		Cod.	9.66.4S200
Zero-Point FLANGE mounting (ERMETIC)		€	1.037

- Dotazione standard:

- 1 tirante Art.11S/10S
- 1 tappo teflon con O-Ring Art.9

- Standard equipment:

- 1 Pull-stud Art.11S/10S
- Teflon cap with O-Ring Art.9

Pulizia / Doppio effetto
Cleaning / Double effect

Bloccaggio
Sbloccaggio - Lock / Unlock

Tipo (grandezza) Zero-Point Zero-Point type (size)		kN	2 up to 26 kN
Pressione apertura / Opening pressure		BAR	6
Art. 665SX		kg	5,8
Zero-Point pneumatico incassato con FLANGIA montaggio verticale per applicazioni su portapezzi (ERMETICO)		Cod.	9.66.5SX20
Pneumatic Zero-Point FLANGE mounting vertical mounting for tombstone applications (ERMETIC)		€	1.043

- Dotazione standard:

- 1 tirante Art.11S/10S
- 1 tappo teflon con O-Ring Art.9

- Standard equipment:

- 1 Pull-stud Art.11S/10S
- Teflon cap with O-Ring Art.9

Tipo (grandezza) Zero-Point Zero-Point type (size)		kN	2 up to 26 kN
Pressione apertura / Opening pressure		BAR	6
Art. 63		kg	8
Rialzo singolo con Zero Point		Cod.	9.63.20000
Single riser with Zero Point		€	2.066

- Dotazione standard:

- 1 tirante Art.11S/10S
- 1 tappo in teflon con O-Ring Art.9
- 1 perno di centraggio Art.640P
(Indicare dimensione in fase d'ordine)
- 1 spina calibrata Art. 83

- Standard equipment:

- 1 Pull-stud Art.11S/10S
- 1 Teflon cap with O-Ring Art.9
- 1 positioning pin Art.640P
(Dimension to be advised at order)
- 1 shoulder calibrated screw Art.83

PNEUMATICO PER APPLICAZIONI MULTIPLE TIPO 3

PNEUMATIC FOR MULTIPLE APPLICATIONS TYPE 3

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	3 up to 42 kN
Pressione apertura / Opening pressure	BAR	7
	kg	5,8
	Cod.	9.66.53000
	€	1.075

Art. 665



Zero-Point pneumatico montaggio incassato (CLASSICO)

Pneumatic Zero-Point built-in mounting (CLASSIC)

EXTRA, chiavette o fori calibrati su richiesta
EXTRA keyways or calibrated holes on request

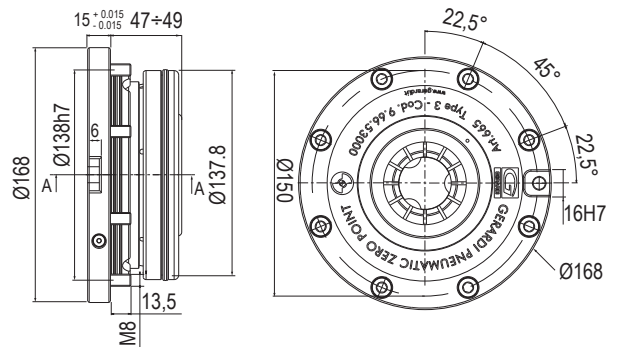


- Dotazione standard:
 - 1 tirante Art.11A/10A
 - 1 tappo teflon con O-Ring Art.9
- Standard equipment:
 - 1 Pull-stud Art.11A/10A
 - Teflon cap with O-Ring Art.9

Forza di serraggio - Clamping power		
Pressione apertura Opening pressure (bar)	Forza di serraggio Clamping force (kN)	Doppio effetto Double effect (kN)
4	7,3	25
5	9,8	31
6	13,2	37,5
7	14,7	42

CARATTERISTICHE TECNICHE - TECHNICAL FEATURES

- ✓ Forza di serraggio 15 ÷ 42 kN / ✓ Forza di arresto oltre a 80 kN / ✓ Sbloccaggio ad aria / ✓ Sistema irreversibile / ✓ Compensazione assiale e radiale grazie alla pinza elastica integrale / ✓ Pulizia ad aria / ✓ Doppio effetto / ✓ Doppio centraggio per tirante per massima rigidità
- ✓ Clamping force 15 ÷ 42 kN / ✓ Holding force more than 80 kN / ✓ Pneumatic release / ✓ Irreversible system / ✓ Axial and radial compensation thanks to elastic integral collet / ✓ Air cleaning / ✓ Double effect / ✓ Double pull-stud centering for Max rigidity



TIRANTI - PULL-STUDS

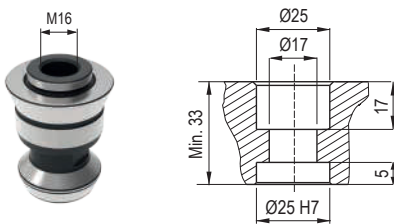
Art. 10A

TIPO 3 / TYPE 3

Perno tirante di **centraccio**.
Filetto femmina

Centering pull-stud.
Female thread

(Vedi / See pag. 9.42)



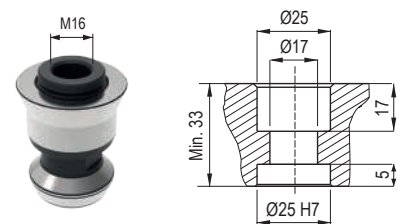
Art. 10B

TIPO 3 / TYPE 3

Perno **tirante**.
Filetto femmina

Clamping pull-stud.
Female thread

(Vedi / See pag. 9.42)



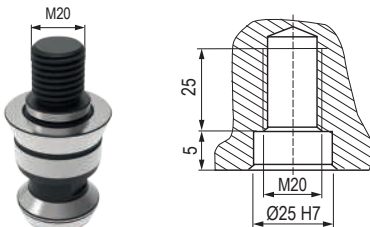
Art. 11A

TIPO 3 / TYPE 3

Perno tirante di **centraccio**.
Filetto maschio

Centering pull-stud.
Male thread

(Vedi / See pag. 9.42)



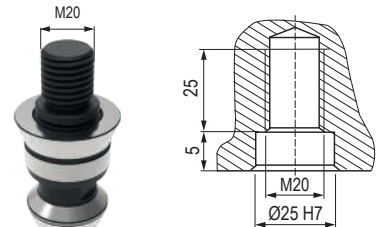
Art. 11B

TIPO 3 / TYPE 3

Perno **tirante**.
Filetto maschio

Clamping pull-stud.
Male thread

(Vedi / See pag. 9.42)



ZERO POINT KIT

Art. 665K

Parti di ricambio per Zero-Point
Zero Point spare parts



Kit Tipo 3 Type 3 Kit	
Cod.	9.66.5K300
€	87

PNEUMATICO FLANGIATO PER APPLICAZIONI MULTIPLE TIPO 3

PNEUMATIC FLANGE MOUNTING FOR MULTIPLE APPLICATIONS TYPE 3

Tipo (grandezza) Zero-Point Zero-Point type (size)		3 up to 42 kN
Pressione apertura / Opening pressure	BAR	7
	kg	11,2
	Cod.	9.66.43000
	€	1.194

Art. 664

Zero-Point pneumatico FLANGIATO (CLASSICO)
Zero-Point FLANGE mounting (CLASSIC)

- Dotazione standard:
 ■ 1 tirante Art.11A/10A
 ■ 1 tappo teflon con O-Ring Art.9

- Standard equipment:
 ■ 1 Pull-stud Art.11A/10A
 ■ Teflon cap with O-Ring Art.9

Pulizia / Doppio effetto
 Cleaning / Double effect

Bloccaggio
 Sbloccaggio - Lock / Unlock

Tipo (grandezza) Zero-Point Zero-Point type (size)		3 up to 42 kN
Pressione apertura / Opening pressure	BAR	7
	kg	-
	Cod.	9.66.5X300
	€	1.255

Art. 665X

Zero-Point pneumatico incassato con FLANGIA montaggio verticale per applicazioni su portapezzi CLASSICO)
Pneumatic Zero-Point FLANGE mounting vertical mounting for tombstone applications (CLASSIC)

- Dotazione standard:
 ■ 1 tirante Art.11A/10A
 ■ 1 tappo teflon con O-Ring Art.9

- Standard equipment:
 ■ 1 Pull-stud Art.11A/10A
 ■ Teflon cap with O-Ring Art.9

Tipo (grandezza) Zero-Point Zero-Point type (size)		3 up to 42 kN
Pressione apertura / Opening pressure	BAR	7
	kg	31,2
	Cod.	9.64.30000
	€	4.532

Art. 64

Rialzo doppio con Zero Point
Double riser with Zero Point

- Dotazione standard:
 ■ 2 tiranti Art.11A / 10A
 ■ 2 tappi in teflon con O-Ring Art.9
 ■ 1 perno di centraggio Art.640P (Indicare dimensione in fase d'ordine)
 ■ 2 spine di orientamento Art.79

- Standard equipment:
 ■ 2 Pull-stud Art.11A / 10A
 ■ 2 Teflon caps with O-Ring Art.9
 ■ 1 positioning pin Art.640P (Dimension to be advised at order)
 ■ 2 shoulders calibrated pins Art.79

PNEUMATICO SINGOLO TIPO 3

PNEUMATIC SINGLE TYPE 3

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	3 up to 42 kN
--	-----------	-------------------------

Pressione apertura / Opening pressure	BAR	7
	kg	5,8
	Cod.	9.66.5S300
	€	1.075

Art. 665S



Zero-Point pneumatico montaggio incassato (CLASSICO)

Pneumatic Zero-Point built-in mounting (CLASSIC)

Chiavette comprese nel prezzo
Keyways included in the price



- Dotazione standard:

- 1 tirante Art.11A/10A
- 1 tappo teflon con O-Ring Art.9

- Standard equipment:

- 1 Pull-stud Art.11A/10A
- Teflon cap with O-Ring Art.9

Forza di serraggio - Clamping power

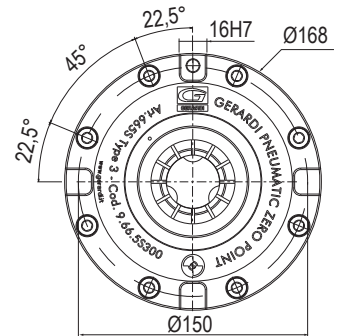
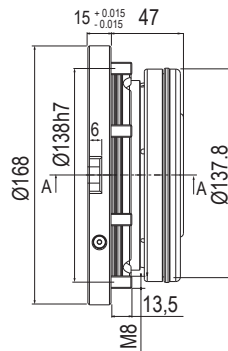
Pressione apertura Opening pressure (bar)	Forza di serraggio Clamping force (kN)	Doppio effetto Double effect (kN)
4	7,3	25
5	9,8	31
6	13,2	37,5
7	14,7	42

Un solo Zero Point per ogni morsa, attrezzatura o particolare da serrare
Only one Zero point for each vise, fixture or workpiece to be clamped



CARATTERISTICHE TECNICHE - TECHNICAL FEATURES

- ✓ Forza di serraggio 15 ÷ 42 kN / ✓ Forza di arresto oltre a 80 kN / ✓ Sbloccaggio ad aria / ✓ Sistema irreversibile / ✓ Compensazione assiale e radiale grazie alla pinza elastica integrale / ✓ Pulizia ad aria / ✓ Doppio effetto / ✓ Doppio centraggio per tirante per massima rigidità
- ✓ Clamping force 15 ÷ 42 kN / ✓ Holding force more than 80 kN / ✓ Pneumatic release / ✓ Irreversible system / ✓ Axial and radial compensation thanks to elastic integral collet / ✓ Air cleaning / ✓ Double effect / ✓ Double pull-stud centering for Max rigidity



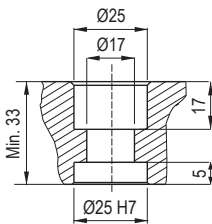
TIRANTI - PULL-STUDS

Art. 10A

TIPO 3 / TYPE 3

Perno tirante di **centraggio**.
Filetto femmina
Clamping pull-stud.
Female thread

(Vedi / See pag. 9.42)

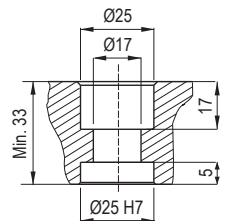


Art. 11A

TIPO 3 / TYPE 3

Perno tirante di **centraggio**.
Filetto maschio
Clamping pull-stud.
Male thread

(Vedi / See pag. 9.42)

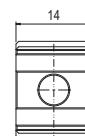
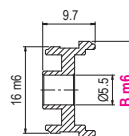


TASSELLI A GIOCO ZERO

NO-GAP KEY NUTS

Art. 297X

Tasselli a Gioco Zero per il posizionamento preciso di morse singole su zero point
NO-GAP key nuts for accurate single vise positioning on zero point



B	12 - 14 - 16 - 18 - 20
Cod.	297X1612 / 14 / 16 / 18 / 20
€	34

KIT VERSIONE S

KIT S VERSION

Art. 665SK

Parti di ricambio per Zero-Point singolo
Single Zero Point spare parts



Kit Tipo3 Type 3 Kit	
Cod.	9.66.5SK30
€	87

PNEUMATICO FLANGIATO PER APPLICAZIONI SINGOLE TIPO 3

PNEUMATIC FLANGE MOUNTING FOR SINGLE APPLICATIONS TYPE 3

Tipo (grandezza) Zero-Point Zero-Point type (size)		3 up to 42 kN
Pressione apertura / Opening pressure	BAR	7
	kg	6,5
	Cod.	9.66.4S300
	€	1.194

Art. 664S

Zero-Point pneumatico FLANGIATO (CLASSICO)
Zero-Point FLANGE mounting (CLASSIC)

- Dotazione standard:
 ■ 1 tirante Art.11A/10A
 ■ 1 tappo teflon con O-Ring Art.9

- Standard equipment:
 ■ 1 Pull-stud Art.11A/10A
 ■ Teflon cap with O-Ring Art.9

Pulizia / Doppio effetto
 Cleaning / Double effect

Bloccaggio
 Sbloccaggio - Lock / Unlock

Tipo (grandezza) Zero-Point Zero-Point type (size)		3 up to 42 kN
Pressione apertura / Opening pressure	BAR	7
	kg	-
	Cod.	9.66.5SX30
	€	1.255

Art. 665SX

Zero-Point pneumatico incassato con FLANGIA montaggio verticale per applicazioni su portapezzi CLASSICO)
Pneumatic Zero-Point FLANGE mounting vertical mounting for tombstone applications (CLASSIC)

- Dotazione standard:
 ■ 1 tirante Art.11A/10A
 ■ 1 tappo teflon con O-Ring Art.9

- Standard equipment:
 ■ 1 Pull-stud Art.11A/10A
 ■ Teflon cap with O-Ring Art.9

Tipo (grandezza) Zero-Point Zero-Point type (size)		3 up to 42 kN
Pressione apertura / Opening pressure	BAR	7
	kg	24
	Cod.	9.63.30000
	€	2.453

Art. 63

Rialzo singolo con Zero Point
Single riser with Zero Point

- Dotazione standard:
 ■ 1 tirante Art.11A / 10A
 ■ 1 tappo in teflon con O-Ring Art.9
 ■ 1 perno di centraggio Art.640P (Indicare dimensione in fase d'ordine)
 ■ 1 spina calibrata Art. 83

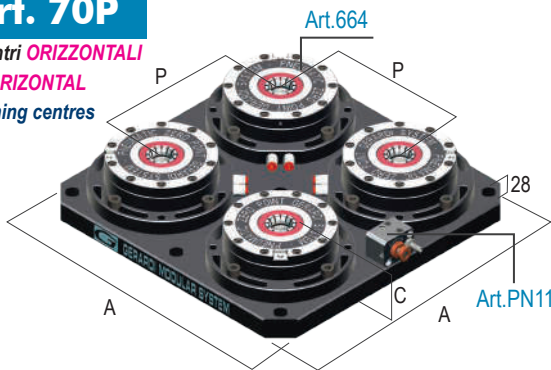
- Standard equipment:
 ■ 1 Pull-stud Art.11A / 10A
 ■ 1 Teflon cap with O-Ring Art.9
 ■ 1 positioning pin Art.640P (Dimension to be advised at order)
 ■ 1 shoulder calibrated screw Art.83

PIASTRE BASE PER ZERO POINT FLANGIATI* HEAD PLATES FOR MOUNTED ZERO POINT*

 Opzione apertura indipendente Zero Point
 Zero point independent control option
SOVRAPREZZO - EXTRA PRICE: € 284

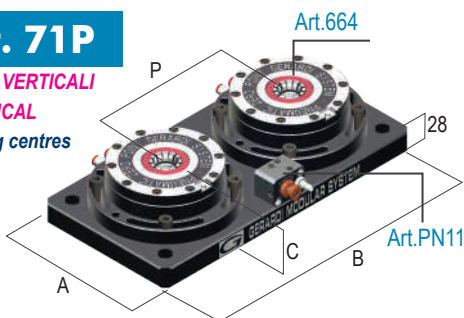
PIASTRE QUADRATE , MONTAGGIO CON FLANGIA - SQUARE PLATES , FLANGE MOUNTING

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	1 up to 12,5 kN							
		Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
Art. 70P Per centri ORIZZONTALI For HORIZONTAL machining centres	A	400		500		-		-	
	C	78		78		-		-	
	P	200		200 -250 - 300		-		-	
	kg	47,7	26,4	62,8	30,8	-	-	-	-
	Cod.	9.70. P14040S4	9.70. P14040A4	9.70. P15050S4	9.70. P15050A4	-	-	-	-
€	3.637	3.637	3.819	3.819	-	-	-	-	

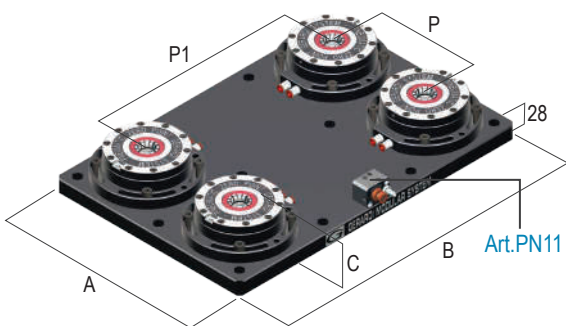


PIASTRE RETTANGOLARI , MONTAGGIO CON FLANGIA - RECTANGULAR PLATES , FLANGE MOUNTING

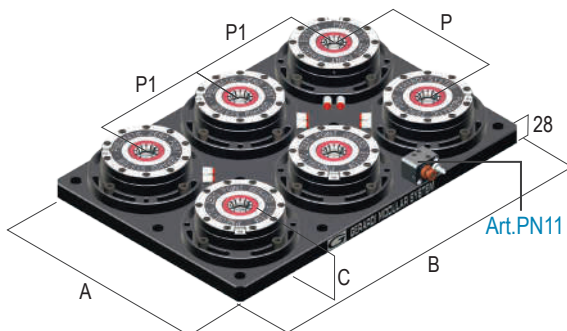
Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	1 up to 12,5 kN					
		Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
Art. 71P Per centri VERTICALI For VERTICAL machining centres	A	200		200		200	
	B	400		500		600	
	C	78		78		78	
	P	200		250		300	
	kg	23,4	12,7	27,4	14,2	31,4	15,6
Cod.	9.71.P12040S2	9.71.P12040A2	9.71.P12050S2	9.71.P12050A2	9.71.P12060S2	9.71.P12060A2	
€	2.160	2.160	2.228	2.228	2.274	2.274	



Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	1 up to 12,5 kN							
		Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
Art. 72P Per centri VERTICALI For VERTICAL machining centres	A	400		400		400		400	
	B	500		600		700		800	
	C	78		78		78		78	
	P	200		200		200		200	
	P1	300		400		500		600	
kg	55,1	27,2	63,8	30,2	72,6	33,2	81,3	36,2	
Cod.	9.71. P14050S4	9.71. P14050A4	9.71. P14060S4	9.71. P14060A4	9.71. P14070S4	9.71. P14070A4	9.71. P14080S4	9.71. P14080A4	
€	3.727	3.727	3.819	3.819	3.887	3.887	3.977	3.977	



Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	1 up to 12,5 kN							
		Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
Art. 73P Per centri VERTICALI For VERTICAL machining centres	A	400		400		400		400	
	B	500		600		700		800	
	C	78		78		78		78	
	P	200		200		200		200	
	P1	150		200		250		300	
kg	60,5	32,6	69,2	35,6	78	38,6	86,7	41,6	
Cod.	9.71. P14050S6	9.71. P14050A6	9.71. P14060S6	9.71. P14060A6	9.71. P14070S6	9.71. P14070A6	9.71. P14080S6	9.71. P14080A6	
€	5.024	5.024	5.114	5.114	5.205	5.205	5.273	5.273	



* Personalizzabili con 4/8 fori per ancoraggio e 2 riferimenti per posizionamento (chiavette o fori calibrati) vedi pag. 8.4
 Tailor made with 4/8 holes for clamping and 2 reference points for positioning (key-ways or ground screws) see pag. 8.4

Opzione apertura indipendente Zero Point
 Zero point independent control option
SOVRAPREZZO - EXTRA PRICE: € 284
PIASTRE QUADRATE , MONTAGGIO CON FLANGIA - SQUARE PLATES , FLANGE MOUNTING

2 up to 15 kN								3 up to 42 kN							
Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
400		500		630		800		-	500		630		800		
83		83		83		83		-	98		98		98		
200		200-250-300		200-250-300		200-250-300		-	250		250-300-350-400		200-250-300-350-400-450-500-550		
59	34	78	35	110	46	163	65	-	-	98	64	130	75	176	93
9.70. P4040S4	9.70. P4040A4	9.70. P5050S4	9.70. P5050A4	9.70. P6363S4	9.70. P6363A4	9.70. P8080S4	9.70. P8080A4	-	-	9.70. P35050S4	9.70. P35050A4	9.70. P36363S4	9.70. P36363A4	9.70. P38080S4	9.70. P38080A4
4.994	4.994	5.221	5.221	5.560	5.560	6.038	6.038	-	-	6.241	6.241	6.582	6.582	7.082	7.082

PIASTRE RETTANGOLARI , MONTAGGIO CON FLANGIA - RECTANGULAR PLATES , FLANGE MOUNTING

2 up to 15 kN						3 up to 42 kN											
Acciaio	Aluminum	Acciaio	Aluminum	Acciaio	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum						
200		200		200		250		250		250							
400		500		600		500		600		700							
83		83		83		98		98		98							
200		200-250-300		400		250		300		400							
29	13	33	14	38	17	49,2	32,6	54,5	34,4	59,8	36,2						
9.71.P2040S2	9.71.P2040A2	9.71.P2050S2	9.71.P2050A2	9.71.P2060S2	9.71.P2060A2	9.71.P32550S2	9.71.P32550A2	9.71.P32560S2	9.71.P32560A2	9.71.P32570S2	9.71.P32570A2						
2.724	2.724	2.837	2.837	2.906	2.906	3.405	3.405	3.518	3.518	3.587	3.587						
Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum						
400		400		400		500		500		500							
500		600		700		800		800		900							
83		83		83		98		98		98							
200		200		200		250		250		250							
300		400		500		600		500		600							
67	31	76	34	85	37	94	92	110,1	67,9	121	71,6	132	75,3	142,9	79		
9.71. P4050S4	9.71. P4050A4	9.71. P4060S4	9.71. P4060A4	9.71. P4070S4	9.71. P4070A4	9.71. P4080S4	9.71. P4080A4	9.71. P35060S4	9.71. P35060A4	9.71. P35070S4	9.71. P35070A4	9.71. P35070S4	9.71. P35070A4	9.71. P35080S4	9.71. P35080A4	9.71. P35090S4	9.71. P35090A4
5.107	5.107	5.221	5.221	5.334	5.334	5.447	5.447	6.446	6.446	6.684	6.684	6.900	6.900	7.172	7.172		
Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum		
400		400		400		500		500		500		-		-			
500		600		700		800		800		900		1000		-			
83		83		83		98		98		98		-		-			
200		200		200		250		250		250		-		-			
200		200		250		300		250		300		350		-			
79	38	88	41	97	83	106	47	154	97,3	164,9	101	153,8	104,8	-	-		
9.71. P4050S6	9.71. P4050A4	9.71. P4060A6	9.71. P4060A6	9.71. P4070S6	9.71. P4070A4	9.71. P4080S6	9.71. P4080A6	9.71. P35080S6	9.71. P35080A6	9.71. P35090S6	9.71. P35090A6	9.71. P35010S6	9.71. P35010A6	-	-		
-	-	7.263	7.263	7.376	7.376	7.490	7.490	9.294	9.294	9.550	9.550	9.815	9.815	-	-		

! Alluminio - Anticorodal - ossidazione dura
 Alloy 6082 - Anticorodal - Hard anodizing

CARTER IN ACCIAIO INOX PER PIASTRE BASE ZERO POINT

STAINLESS STEEL COVER FOR ZERO POINT HEAD PLATES

CARTER PER PIASTRE BASE QUADRATE - SQUARE HEAD PLATES COVER

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	1 up to 12,5 kN			
		Acciaio - Steel	Acciaio - Steel	Acciaio - Steel	Acciaio - Steel
Art. 70CP 	A	400	500	-	-
	C	78	78	-	-
	P	200	200-250-300	-	-
	kg	-	-	-	-
	Cod.	9.70.CP140404	9.70.CP150504	-	-
	€	-	-	-	-

CARTER PER PIASTRE BASE RETTANGOLARI - RECTANGULAR HEAD PLATES COVER

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	1 up to 12,5 kN		
		Acciaio - Steel	Acciaio - Steel	Acciaio - Steel
Art. 71CP 	A	200	200	200
	B	400	500	600
	C	78	78	78
	P	200	250	300
	kg	-	-	-
	Cod.	9.71.CP120402	9.71.CP120502	-
	€	-	-	-

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	1 up to 12,5 kN			
		Acciaio - Steel	Acciaio - Steel	Acciaio - Steel	Acciaio - Steel
	A	400	400	400	400
	B	500	600	700	800
	C	78	78	78	78
	P	200	200	200	200
	P1	300	400	500	600
	kg	-	-	-	-
	Cod.	9.71.CP140504	9.71.CP140604	9.71.CP140704	9.71.CP140804
	€	-	-	-	-

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	1 up to 12,5 kN			
		Acciaio - Steel	Acciaio - Steel	Acciaio - Steel	Acciaio - Steel
	A	400	400	400	400
	B	500	600	700	800
	C	78	78	78	78
	P	200	200	200	200
	P1	150	200	250	300
	kg	-	-	-	-
	Cod.	9.71.CP140506	9.71.CP140606	9.71.CP140706	9.71.CP140806
	€	-	-	-	-

CARTER PER PIASTRE BASE TONDE PER ZERO POINT TIPO 2 - ROUNDED HEAD PLATES COVER FOR TYPE 2 ZERO POINT

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	1 up to 12,5 kN			
		Acciaio - Steel	Acciaio - Steel	Acciaio - Steel	Acciaio - Steel
Art. 72CP 	ØA	280	500	420	500
	B	-	380	-	400
	C	78	78	78	78
	P	-	200	200	200
	P1	-	200	200	200
	kg	-	-	-	-
	Cod.	9.72.CP28281	9.72.CP50384	9.72.CP42424	9.72.CP50404
	€	56	122	103	123

CARTER PER PIASTRE BASE QUADRATE - SQUARE HEAD PLATES COVER

2 up to 15 kN				3 up to 42 kN			
Acciaio - Steel	Acciaio - Steel	Acciaio - Steel	Acciaio - Steel	Acciaio - Steel	Acciaio - Steel	Acciaio - Steel	Acciaio - Steel
400	500	630	800	-	500	630	800
79	79	79	79	-	98	98	98
200	250-250-300	250-250-300	250-250-300	-	200	250-300-350-400	200 to 550
2,7	4,1	6,4	9,8	-	-	-	-
9.70.CP40404	9.70.CP50504	9.70.CP63634	9.70.CP80804	-	9.70.CP350504	9.70.CP363634	9.70.CP380804
122	169	249	369	-	-	-	-

CARTER PER PIASTRE BASE RETTANGOLARI - RECTANGULAR HEAD PLATES COVER

2 up to 15 kN			3 up to 42 kN		
Acciaio - Steel	Acciaio - Steel	Acciaio - Steel	Acciaio - Steel	Acciaio - Steel	Acciaio - Steel
200	200	200	250	250	250
400	500	600	500	600	700
79	79	79	98	98	98
200	250-250-300	400	250	250	250
1,7	2,1	2,5	250	300	400
9.71.CP20402	9.71.CP20502	9.71.CP20602	9.70.CP325502	9.70.CP325602	9.70.CP325702
100	121	140			

Acciaio - Steel	Acciaio - Steel	Acciaio - Steel	Acciaio - Steel	Acciaio - Steel	Acciaio - Steel	Acciaio - Steel	Acciaio - Steel
400	400	400	400	500	500	500	500
500	600	700	800	600	700	800	900
79	79	79	79	98	98	98	98
200	200	200	200	250	250	250	250
300	400	500	600	300	400	500	600
3,3	4	4,6	5,3	-	-	-	-
9.71.CP40504	9.71.CP40604	9.71.CP40704	9.71.CP40804	9.71.CP350604	9.71.CP350704	9.71.CP350804	9.71.P350904
143	163	188	211	-	-	-	-

Acciaio - Steel	Acciaio - Steel	Acciaio - Steel	Acciaio - Steel	Acciaio - Steel	Acciaio - Steel	Acciaio - Steel	Acciaio - Steel
400	400	400	400	500	500	500	-
500	600	700	800	800	900	1000	-
79	79	79	79	98	98	98	-
200	200	200	200	250	250	250	-
200	200	250	300	250	300	350	-
3	3,6	4,3	4,9	-	-	-	-
9.71.CP40506	9.71.CP40606	9.71.CP40706	9.71.CP40806	9.71.CP350806	9.71.CP350906	9.71.CP350106	-
143	163	188	211	-	-	-	-

CARTER PER PIASTRE BASE TONDE PER ZERO POINT TIPO 2 - ROUNDED HEAD PLATES COVER FOR TYPE 2 ZERO POINT

Acciaio - Steel	Acciaio - Steel	Acciaio - Steel	Acciaio - Steel	Acciaio - Steel
630	700	790	1000	900
500	500	560	560	630
78	78	78	78	78
200 - 250 - 300	200 - 300 - 400	200 - 250	200 - 300 - 350	200 - 250
200 - 250 - 300	200 - 300	200 - 250 - 300	200 - 300 - 400	200 - 300 - 400
-	-	-	-	-
9.72.CP63504	9.72.CP70504	9.72.CP79566	9.72.CP10568	9.72.CP90636
181	201	246	312	302

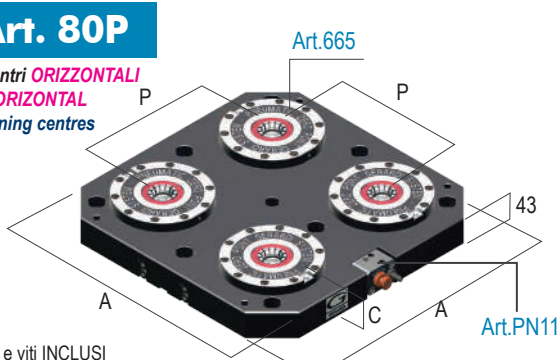
PIASTRE BASE PER ZERO POINT INCASSATI*

ZERO POINT BUILT IN HEAD PLATES*

 Opzione apertura indipendente Zero Point
 Zero point independent control option
SOVRAPREZZO - EXTRA PRICE: € 284

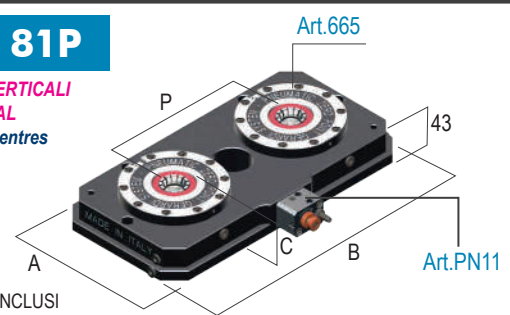
PIASTRA QUADRATA , MONTAGGIO INCASSATO - SQUARE PLATES , BUILT-IN MOUNTING

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	1 up to 12,5 kN							
		Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
Art. 80P Per centri ORIZZONTALI For HORIZONTAL machining centres	A	400		500		630		800	
	C	50		50		50		50	
P	200		200 -250 - 300		200-250-300-350-400		200-250-300-350-400 450-500-550-600		
kg	-	-	-	-	-	-	-	-	-
Cod.	9.80. P14040S4	9.80. P14040A4	9.80. P15050S4	9.80. P15050A4	9.80. P16363S4	9.80. P16363A4	9.80. P18080S4	9.80. P18080A4	
€	3.524	3.524	3.727	3.727	-	-	-	-	

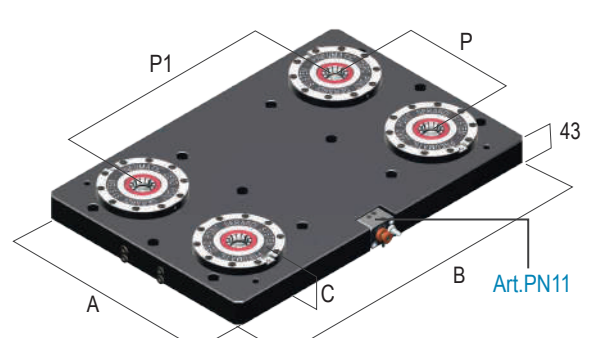

 Tiranti e viti INCLUSI
 Pull Studs and screws INCLUDED

PIASTRE RETTANGOLARI , MONTAGGIO INCASSATO - RECTANGULAR PLATES , BUILT-IN MOUNTING

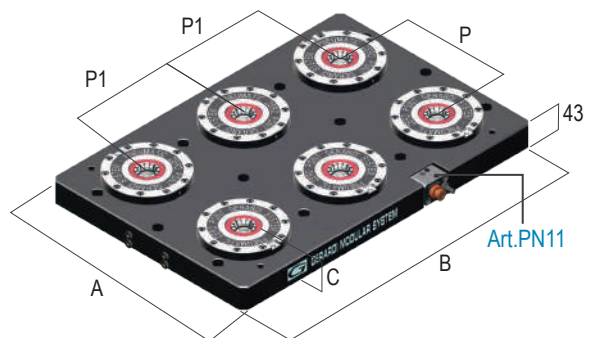
Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	1 up to 12,5 kN					
		Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
Art. 81P Per centri VERTICALI For VERTICAL machining centres	A	160		160		160	
	B	350		400		450	
C	55		55		55		
P	200		250		300		
kg	-	-	-	-	-	-	-
Cod.	9.81.P11635S2	9.81.P11635A2	9.81.P11640S2	9.81.P11640A2	9.81.P11645S2	9.81.P11645A2	
€	2.114	2.114	2.182	2.182	2.240	2.240	


 Tiranti e viti INCLUSI
 Pull Studs and screws INCLUDED

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	1 up to 12,5 kN							
		Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
Art. 82P	A	400		400		400		400	
	B	500		600		700		800	
C	50		50		50		50		
P	200		200		200		200		
P1	300		400		500		600		
kg	-	-	-	-	-	-	-	-	
Cod.	9.81. P14050S4	9.81. P14050A4	9.81. P14060S4	9.81. P14060A4	9.81. P14070S4	9.81. P14070A4	9.81. P14080S4	9.81. P14080A4	
€	3.614	3.614	3.705	3.705	-	-	-	-	


 Tiranti e viti INCLUSI
 Pull Studs and screws INCLUDED

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	1 up to 12,5 kN							
		Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
Art. 83P	A	400		400		400		400	
	B	500		600		700		800	
C	50		50		50		50		
P	200		200		200		200		
P1	150		200		250		300		
kg	-	-	-	-	-	-	-	-	
Cod.	9.81. P14050S6	9.81. P14050A6	9.81. P14060S6	9.81. P14060A6	9.81. P14070S6	9.81. P14070A6	9.81. P14080S6	9.81. P14080A6	
€	4.819	4.819	4.911	4.911	-	-	-	-	


 Tiranti e viti INCLUSI
 Pull Studs and screws INCLUDED

 * Personalizzabili con 4/8 fori per ancoraggio e 2 riferimenti per posizionamento (chiavette o fori calibrati) vedi pag. 8.4
 Tailor made with 4/8 holes for clamping and 2 reference points for positioning (key-ways or ground screws) see pag. 8.4


 Opzione apertura indipendente Zero Point
 Zero point independent control option
SOVRAPREZZO - EXTRA PRICE: € 284
PIASTRA QUADRATA , MONTAGGIO INCASSATO - SQUARE PLATES , BUILT-IN MOUNTING

2 up to 15 kN								3 up to 42 kN							
Steel	Alluminio	Steel	Alluminio	Steel	Alluminio	Steel	Alluminio	Steel	Alluminio	Steel	Alluminio	Steel	Alluminio	Steel	Alluminio
400		500		630		800		-	-	500		630		800	
58		58		58		58		-	-	70		70		70	
200		250		300-300		250 -250 - 300 - 400		-	-	250		250-300-350-400		200-250-300-350-400-450-500-550	
60	29	91	44	140	58	220	87	-	-	-	-	-	-	-	-
9.80. P4040S4	9.80. P4040A4	9.80. P5050S4	9.80. P5050A4	9.80. P6363S4	9.80. P6363A4	9.80. P8080S4	9.80. P8080A4	-	-	9.80. P35050S4	9.80. P35050A4	9.80. P36363S4	9.80. P36363A4	9.80. P38080S4	9.80. P38080A4
4.880	4.880	5.107	5.107	5.595	5.595	6.241	6.241	-	-	6.446	6.446	6.878	6.878	7.535	7.535

PIASTRE RETTANGOLARI , MONTAGGIO INCASSATO - RECTANGULAR PLATES , BUILT-IN MOUNTING

2 up to 15 kN								3 up to 42 kN							
Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
200		200		200		200		250		250		250		250	
400		500		600		600		500		600		700		700	
58		58		58		58		70		70		70		70	
200		250		300		300		250		300		400		400	
29	15	35	17	42	25	42	25	-	-	-	-	-	-	-	-
9.81.P2040S2	9.81.P2040A2	9.81.P2050S2	9.81.P2050A2	9.81.P2060S2	9.81.P2060A2	9.81.P2060S2	9.81.P2060A2	9.81.P32550S2	9.81.P32550A2	9.81.P32560S2	9.81.P32560A2	9.81.P32070S2	9.81.P325670A2	9.81.P325670A2	9.81.P325670A2
2.724	2.724	2.793	2.793	2.837	2.837	2.837	2.837	3.518	3.518	3.610	3.610	3.678	3.678	3.678	3.678
Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
400		400		400		400		500		500		500		500	
500		600		700		800		600		700		800		900	
58		58		58		58		70		70		70		70	
200		200		200		200		250		250		250		250	
300		400		500		600		300		400		500		600	
74	34	87	39	100	44	114	49	-	-	-	-	-	-	-	-
9.81. P4050S4	9.81. P4050A4	9.81. P4060S4	9.81. P4060A4	9.81. P4070S4	9.81. P4070A4	9.81. P4080S4	9.81. P4080A4	9.81. P35060S4	9.81. P35060A4	9.81. P35070S4	9.81. P35070A4	9.81. P35080S4	9.81. P35080A4	9.81. P35090S4	9.81. P35090A4
4.994	4.994	5.107	5.107	5.311	5.311	5.403	5.403	6.605	6.605	6.741	6.741	6.878	6.878	7.035	7.035
Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
400		400		400		400		500		500		500		-	
500		600		700		800		800		900		1000		-	
58		58		58		58		70		70		70		-	
200		200		200		200		250		250		250		-	
150		200		250		300		250		300		350		-	
79	39	91	44	105	49	118	54	-	-	-	-	-	-	-	-
9.81. P4050S6	9.81. P4050A6	9.81. P4060S6	9.81. P4060A6	9.81. P4070S6	9.81. P4070A6	9.81. P4080S6	9.81. P4080A6	9.81. P35080S6	9.81. P35080A6	9.81. P35090A6	9.81. P35090A6	9.81. P35010S6	9.81. P35010A6	-	-
6.922	6.922	7.035	7.035	7.219	7.219	7.332	7.332	9.375	9.375	9.509	9.509	9.669	9.669	-	-

! Alluminio - Anticorodal - ossidazione dura
 Alloy 6082 - Anticorodal - Hard anodizing

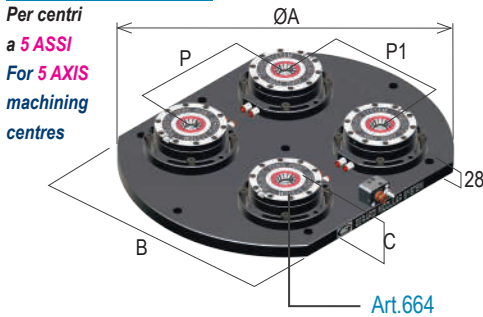
PIASTRE BASE ZERO POINT TONDE

ZERO POINT ROUNDED HEAD PLATES

 Opzione apertura indipendente Zero Point
 Zero point independet control option
SOVRAPPREZZO - EXTRA PRICE: € 270

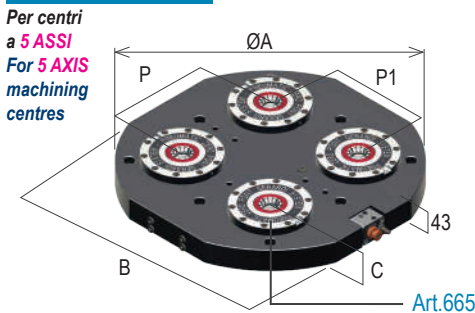
MONTAGGIO CON FLANGIA - FLANGE MOUNTING

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	2 up to 15 kN							
		Hermule C600U		DMG DMU 50 Evo		Mazak Variax 500		Hermule C40U	
		Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
Art. 72P									
ØA		280		500		500		420	
B		-		380		400		-	
C		83		83		83		83	
P		-		200		200		200	
P1		-		200		200		200	
N° Zero Point		1		4		4		4	
kg		19	11	61	37	63	38	65	35
Cod.		9.72. P2800S1	9.72. P2800A1	9.72. P5038S4	9.72. P5038A4	9.72. P5040S4	9.72. P5040A4	9.72. P4200S4	9.72. P4200A4
€		1.703	1.703	5.107	5.107	5.107	5.107	5.107	5.107


 Piastra tonda con Zero Point Art.664 montaggio con flangia
 Rounded plates with Zero Point Art.664 mounting with flange

MONTAGGIO INCASSATO - BUILT-IN MOUNTING

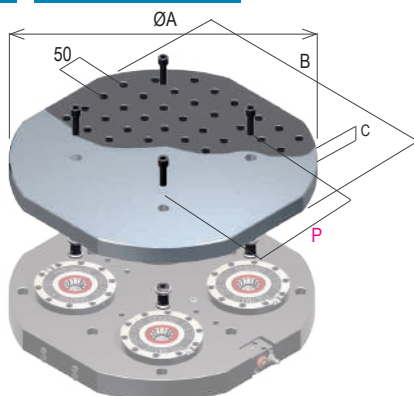
Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	2 up to 15 kN							
		Hermule C600U		DMG DMU 50 Evo		Mazak Variax 500		Hermule C40U	
		Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
Art. 82P									
ØA		280		500		500		420	
B		-		380		400		-	
C		58		58		58		58	
P		-		200 / 250		200 / 250		200	
P1		-		200		200 / 250		200	
N° Zero Point		1		4		4		4	
kg		30	17	67	29	69	31	56	26
Cod.		9.82. P2800S1	9.82. P2800A1	9.82. P5038S4	9.82. P5038A4	9.82. P5040S4	9.82. P5040A4	9.82. P4200S4	9.82. P4200A4
€		1.703	1.703	5.062	5.062	5.085	5.085	5.107	5.107


 Piastra tonda con Zero Point Art.665 montaggio incassato
 RoUnded plates with Zero Point Art.665 built-in mounting

PIASTRA BASE ROTONDA LISCIA E A RETICOLO - SQUARE SMOOTH AND GRID ROUNDED PLATES

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	2 up to 15 kN							
		Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
Art. 62IC									
ØA		400		500		630		800	
B		320		400		500		630	
C		38		38		38		38	
P		200		250		300		300	
kg		41	15	59	21	92	33	149	54
Art.62IC Cod.		9.62. IC4032S4	9.62. IC4032A4	9.62. IC5040S4	9.62. IC5040A4	9.62. IC6350S4	9.62. IC6350A4	9.62. IC8063S4	9.62. IC8063A4
€		1.228	1.228	1.402	1.402	1.636	1.636	2.104	2.104
Art.62IE Cod.		9.62. IE4032S4	9.62. IE4032A4	9.62. IE5040S4	9.62. IE5040A4	9.62. IE6350S4	9.62. IE6350A4	9.62. IE8063S4	9.62. IE8063A4
€		1.505	1.505	1.921	1.921	2.569	2.569	3.726	3.726

 Piastra base tonda
 liscia (Art.62IC) o a
 reticolo (Art.62IE)
 con tiranti femmina
 Art.10A - 10B per
 cambio rapido
 Zero Point

 Smooth round
 interfaced plate (Art.62IC)
 or grid (Art.62IE) with
 female pull-studs
 Art.10A - 10B
 for ZERO POINT
 quick change


Opzione apertura indipendente Zero Point
 Zero point independet control option
SOVRAPREZZO - EXTRA PRICE: € 270
MONTAGGIO CON FLANGIA - FLANGE MOUNTING
2
 up to 15 kN

DMG DMU 50		Haas UMC 750		Mazak Variax 630		DMG DMU 70 Evo		DMG DMC 635V		DMG DMC 1035V		DMG DMU 80P	
Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
630		630		630		700		790		1000		900	
500		500		500		500		560		560		630	
83		83		83		83		83		83		83	
200 / 250 / 300		200 / 250 / 300		200 / 250 / 300		200 / 300 / 400		200 / 250		200 / 300 / 350		200 / 250	
200 / 250 / 300		200 / 250 / 300		200 / 250 / 300		200 / 300		200 / 250 / 300		200 / 300 / 400		200 / 300 / 400	
4		4		4		4		6		8		6	
85	46	85	46	85	46	94	49	124	68	151	78	149	76
9.72. P6350S4	9.72. P6350A4	9.72. P6350S4	9.72. P6350A4	9.72. P6350S4	9.72. P6350A4	9.72. P7050S4	9.72. P7050A4	9.72. P7956S6	9.72. P7956A6	9.72. P1056S8	9.72. P1056A8	9.72. P9063S6	9.72. P9063A6
5.447	5.447	5.447	5.447	5.447	5.447	5.516	5.516	7.808	7.808	10.282	10.282	8.262	8.262

MONTAGGIO INCASSATO - BUILT-IN MOUNTING
2
 up to 15 kN

DMG DMU 50		Haas UMC 750		Mazak Variax 630		DMG DMU 70 Evo		DMG DMC 635V		DMG DMC 1035V		DMG DMU 80P	
Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
630		630		630		700		790		1000		900	
500		500		500		500		560		560		630	
58		58		58		58		58		58		58	
200 / 250 / 300		200 / 250 / 300		200 / 250 / 300		200 / 300 / 400		200 / 250		200 / 250 / 350		200 / 250 / 300	
200 / 250 / 300		200 / 250 / 300		200 / 250 / 300		200 / 250 / 300		200 / 300 / 400		200 / 300 / 400		200 / 300 / 400	
4		4		4		4		6		8		6	
103	43	103	43	103	43	116	48	149	63	197	83	188	87
9.82. P6350S4	9.82. P6350A4	9.82. P6350S4	9.82. P6350A4	9.82. P6350S4	9.82. P6350A4	9.82. P7050S4	9.82. P7050A4	9.82. P7956S6	9.82. P7956A6	9.82. P1056S8	9.82. P1056A8	9.82. P9063S6	9.82. P9063A6
5.674	5.674	5.674	5.674	5.674	5.674	5.867	5.867	8.329	8.329	10.622	10.622	9.010	9.010

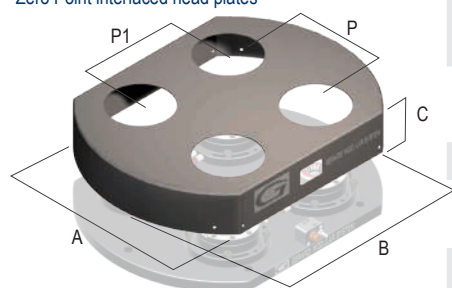
CARTER PER PIASTRE TONDE - ROUNDED PLATES COVER
Tipo (grandezza) Zero-Point
 Zero-Point type (size)

kN

2
 up to 15 kN

Art. 72CP

 Carter in acciaio INOX per piastre tonde
 interfacciate con Zero Point

 Stainless steel round cover for
 Zero Point interfaced head plates


	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel	Steel
ØA	280	500	420	500	630	700	790	1000	900
B	-	380	-	400	500	500	560	560	630
C	78	78	78	78	78	78	78	78	78
P	-	200	200	200	200 250 300	200 300 400	200 250	200 300 350	200 250
P1	-	200	200	200	200 250 300	200 300	200 250 300	200 300 400	200 300 400
kg	-	-	-	-	-	-	-	-	-
Cod.	9.72. CP28281	9.72. CP50384	9.72. CP42424	9.72. CP50404	9.72. CP63504	9.72. CP70504	9.72. CP79566	9.72. CP10568	9.72. CP90636
€	56	122	103	123	181	201	246	312	302

PIASTRE DI INTERFACCIA LISCE*

SMOOTH INTERFACED HEAD PLATES*

PIASTRE QUADRATE - SQUARE PLATES

Tipo (grandezza) Zero-Point
 Zero-Point type (size)

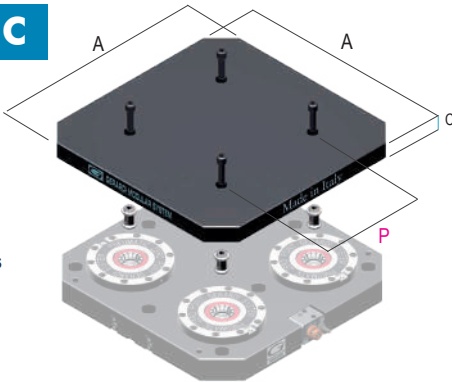
kN

1
 up to 12,5 kN

Art. 60IC

Piastra base liscia con tiranti femmina Art.10A - 10B per cambio rapido ZERO POINT

Smooth base plate with female pull-studs Art.10A - 10B for ZERO POINT quick change



	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
A	400		500		630		800	
C	38		38		38		38	
P	200		200-250-300		200-250-300-350-400		200-250-300-350-400 450-500-550-600	
kg	45	15	73	25	116	39	188	64
Cod.	9.60. IC14040S4	9.60. IC14040A4	9.60. IC15050S4	9.60. IC15050A4	9.60. IC16363S4	9.60. IC16363A4	9.60. IC18080S4	9.60. IC18080A4
€	1.146	1.146	1.380	1.380	1.730	1.730	2.266	2.266

PIASTRE RETTANGOLARI - RECTANGULAR PLATES

Tipo (grandezza) Zero-Point
 Zero-Point type (size)

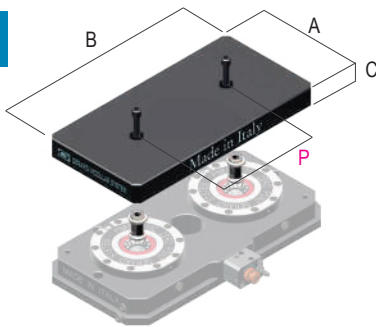
kN

1
 up to 12,5 kN

Art. 61IC

Piastra base liscia con tiranti femmina Art.10A - 10B per cambio rapido ZERO POINT

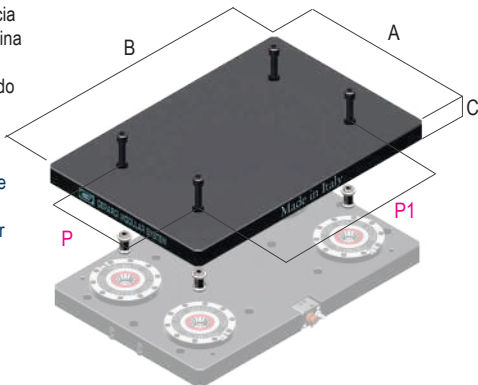
Smooth base plate with female pull-studs Art.10A - 10B for ZERO POINT quick change



	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
A	200		200		200	
B	400		500		600	
C	38		38		38	
P	200		250		300	
kg	22	7	28	9	34	11
Cod.	9.61.IC12040S2	9.61.IC12040A2	9.61.IC12050S2	9.61.IC12050A2	9.61.IC12060S2	9.61.IC12060A2
€	936	936	1.006	1.006	1.076	1.076

Piastra base liscia con tiranti femmina Art.10A - 10B per cambio rapido ZERO POINT

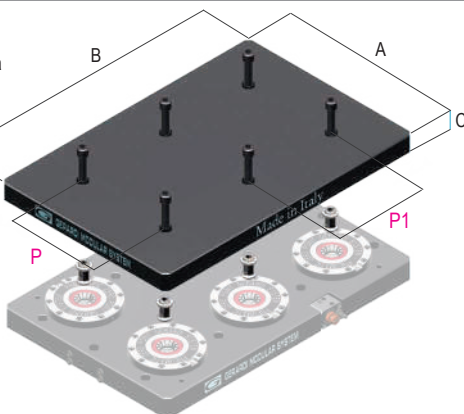
Smooth base plate with female pull-studs Art.10A - 10B for ZERO POINT quick change



	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
A	400		400		400		400	
B	500		600		700		800	
C	38		38		38		38	
P	200		200		200		200	
P1	300		400		500		600	
kg	58	19	70	23	81	27	93	31
Cod.	9.61. IC14050S4	9.61. IC14050A4	9.61. IC14060S4	9.61. IC14060A4	9.61. IC14070S4	9.61. IC14070A4	9.61. IC14080S4	9.61. IC14080A4
€	1.462	1.462	1.753	1.753	2.046	2.046	2.337	2.337

Piastra base liscia con tiranti femmina Art.10A - 10B per cambio rapido ZERO POINT

Smooth base plate with female pull-studs Art.10A - 10B for ZERO POINT quick change



	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
A	400		400		400		400	
B	500		600		700		800	
C	38		38		38		38	
P	200		200		200		200	
P1	150		200		250		300	
kg	57	18	69	22	80	26	92	30
Cod.	9.61. IC14050S6	9.61. IC14050A6	9.61. IC14060S6	9.61. IC14060A6	9.61. IC14070S6	9.61. IC14070A6	9.61. IC14080S6	9.61. IC14080A6
€	1.462	1.462	1.753	1.753	2.046	2.046	2.337	2.337

* Personalizzabili con 4/8 fori e 2 riferimenti per posizionamento (chiavette o fori calibrati) vedi pag. 8.4
 Tailor made with 4/8 holes for clamping and 2 reference points for positioning (key-ways or ground screws) see pag. 8.4


PIASTRE QUADRATE - SQUARE PLATES

2 up to 15 kN								3 up to 42 kN							
Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
400		500		630		800		-		500		630		800	
38		38		38		38		-		38		38		38	
200		250		300		300-400		-		250		250-300-350-400		200-250-300-350-400-450-500-550	
47	16	70	25	115	41	180	65	-	-	73	25	116	39	188	64
9.60. IC4040S4	9.60. IC4040A4	9.60. IC5050S4	9.60. IC5050A4	9.60. IC6363S4	9.60. IC6363A4	9.60. IC8080S4	9.60. IC8080A4	-	-	9.60. IC35050S4	9.60. IC35050A4	9.60. IC3636S4	9.60. IC3636A4	9.60. IC38080S4	9.60. IC38080A4
1.146	1.146	1.380	1.380	1.730	1.730	2.266	2.266	-	-	1.380	1.380	1.730	1.730	2.266	2.266

PIASTRE RETTANGOLARI - RECTANGULAR PLATES

2 up to 15 kN								3 up to 42 kN							
Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
200		200		200		200		250		250		250		250	
400		500		600		600		500		600		700		700	
38		38		38		38		38		38		38		38	
200		250		300		300		250		300		400		400	
24	9	30	11	36	13	36	13	36	12	43	14,5	51	17	51	17
9.61.IC2040S2	9.61.IC2040A2	9.61.IC2050S4	9.61.IC2050A4	9.61.IC2060S4	9.61.IC2060A4	9.61.IC2060S4	9.61.IC2060A4	9.61.IC32550S2	9.61.IC32550A2	9.61.IC32560S2	9.61.IC32560A2	9.61.IC32570S2	9.61.IC32570A2	9.61.IC32570S2	9.61.IC32570A2
936	936	1.006	1.006	1.076	1.076	1.076	1.076	1.076	1.076	1.146	1.146	1.216	1.216	1.216	1.216
Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
400		400		400		400		500		500		500		500	
500		600		700		800		600		700		800		900	
38		38		38		38		38		38		38		38	
200		200		200		200		250		250		250		250	
300		400		500		600		300		400		500		600	
59	21	71	26	83	30	95	34	88	29	102,5	34,5	117	39	132	45
9.61. IC4050S4	9.61. IC4050A4	9.61. IC4060S4	9.61. IC4060A4	9.61. IC4070S4	9.61. IC4070A4	9.61. IC4080S4	9.61. IC4080A4	9.61. IC35060S4	9.61. IC35060A4	9.61. IC35070S4	9.61. IC35070A4	9.61. IC35080S4	9.61. IC35080A4	9.61. IC35090S4	9.61. IC35090A4
1.462	1.462	1.753	1.753	2.046	2.046	2.337	2.337	1.986	1.986	2.162	2.162	2.454	2.454	2.921	2.921
Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
400		400		400		400		500		500		500		-	
500		600		700		800		800		900		1000		-	
38		38		38		38		38		38		38		-	
200		200		200		200		250		250		250		-	
150		200		250		300		250		300		350		-	
59	21	71	26	83	30	95	34	117	39	132	45	147	49	-	-
9.61. IC4050S6	9.61. IC4050A6	9.61. IC4060S6	9.61. IC4060A6	9.61. IC4070S6	9.61. IC4070A6	9.61. IC4080S6	9.61. IC4080A6	9.61. IC35080S6	9.61. IC35080A6	9.61. IC35090S6	9.61. IC35090A6	9.61. IC3510S6	9.61. IC5080A6	-	-
1.462	1.462	1.753	1.753	2.046	2.046	2.337	2.337	2.454	2.454	2.921	2.921	3.505	3.505	-	-

! Alluminio - Anticorodal - ossidazione dura
 Alloy 6082 - Anticorodal - Hard anodizing

PIASTRE DI INTERFACCIA A RETICOLO*

GRID INTERFACED HEAD PLATES*

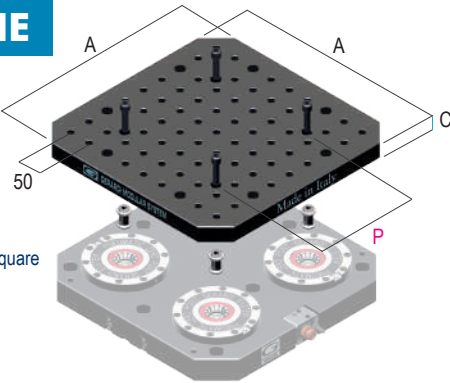
PIASTRE QUADRATE - SQUARE PLATES

Tipo (grandezza) Zero-Point
 Zero-Point type (size)

kN	1 up to 12,5 kN							
	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
A	400		500		630		800	
C	38		38		38		38	
P	200		200 - 250 - 300		200-250-300-350-400		200-250-300-350-400 450-500-550-600	
kg	45	15	73	25	116	39	188	64
Cod.	9.60. IE14040S4	9.60. IE14040A4	9.60. IE15050S4	9.60. IE15050A4	9.60. IE16363S4	9.60. IE16363A4	9.60. IE18080S4	9.60. IE18080A4
€	1.505	1.505	1.968	1.968	3.090	3.090	4.050	4.050

Art. 60IE

Piastra di interfaccia quadrata a reticolo integrale con tiranti femmina Art.10A - 10B per cambio rapido ZERO POINT



Solid grid interface square plate with female pull-studs Art.10A - 10B for ZERO POINT quick change

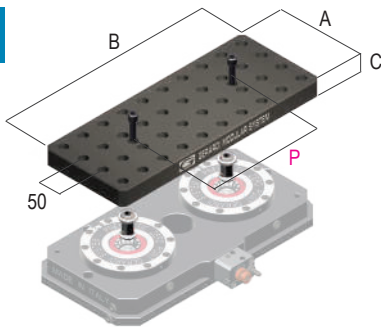
PIASTRE RETTANGOLARI - RECTANGULAR PLATES

Tipo (grandezza) Zero-Point
 Zero-Point type (size)

kN	1 up to 12,5 kN					
	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
A	200		200		200	
B	400		500		600	
C	38		38		38	
P	200		250		300	
kg	22	7	28	9	34	11
Cod.	9.61.IE12040S2	9.61.IE12040A2	9.61.IE12050S2	9.61.IE12050A2	9.61.IE12060S2	9.61.IE12060A2
€	1.135	1.135	1.257	1.257	1.366	1.366

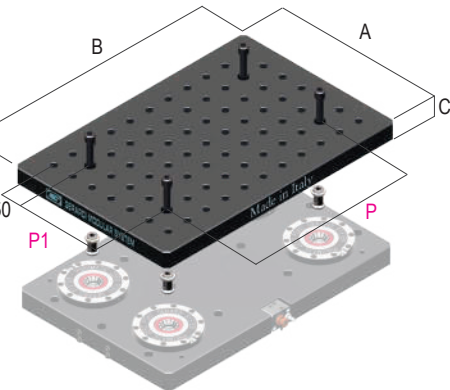
Art. 61IE

Piastra base a reticolo con tiranti femmina Art.10A - 10B per cambio rapido ZERO POINT



Solid grid interface plate with female pull-studs Art.10A - 10B for ZERO POINT quick change

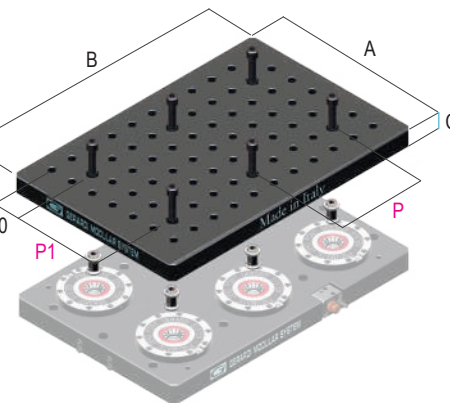
Piastra di interfaccia a reticolo integrale con tiranti femmina Art.10A - 10B per cambio rapido ZERO POINT



Solid grid interface plate with female pull-studs Art.10A - 10B for ZERO POINT quick change

kN	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
	A	400		400		400		400
B	500		600		700		800	
C	38		38		38		38	
P	200		200		200		200	
P1	300		400		500		600	
kg	58	19	70	23	81	27	93	31
Cod.	9.61. IE14050S4	9.61. IE14050A4	9.61. IE14060S4	9.61. IE14060A4	9.61. IE14070S4	9.61. IE14070A4	9.61. IE14080S4	9.61. IE14080A4
€	1.794	1.794	2.083	2.083	2.547	2.547	2.962	2.962

Piastra di interfaccia a reticolo integrale con tiranti femmina Art.10A - 10B per cambio rapido ZERO POINT



Solid grid interface plate with female pull-studs Art.10A - 10B for ZERO POINT quick change

kN	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
	A	400		400		400		400
B	500		600		700		800	
C	38		38		38		38	
P	200		200		200		200	
P1	150		200		250		300	
kg	57	18	69	22	80	26	92	30
Cod.	9.61. IE14050S6	9.61. IE14050A6	9.61. IE14060S6	9.61. IE14060A6	9.61. IE14070S6	9.61. IE14070A6	9.61. IE14080S6	9.61. IE14080A6
€	1.794	1.794	2.083	2.083	2.547	2.547	2.962	2.962

* Personalizzabili con 4/8 fori e 2 riferimenti per posizionamento (chiavette o fori calibrati) vedi pag. 8.4
 Tailor made with 4/8 holes for clamping and 2 reference points for positioning (key-ways or ground screws) see pag. 8.4


PIASTRE QUADRATE - SQUARE PLATES

2 up to 15 kN								3 up to 42 kN							
Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
400		500		630		800		-	500		630		800		
38		38		38		38		-	38		38		38		
200		250		300		300 - 400		-	250		250-300-350-400		200-250-300-350-400-450-500-550		
47	16	70	25	115	41	180	65	-	-	73	25	116	39	188	64
9.60. IE4040S4	9.60. IE4040A4	9.60. IE5050S4	9.60. IE5050A4	9.60. IE6363S4	9.60. IE6363A4	9.60. IE8080S4	9.60. IE8080A4	-	-	9.60. IE35050S4	9.60. IE35050A4	9.60. IE3636S4	9.60. IE3636A4	9.60. IE38080S4	9.60. IE38080A4
1.505	1.505	1.968	1.968	3.090	3.090	4.050	4.050	-	-	1.968	1.968	3.090	3.090	4.050	4.050

PIASTRE RETTANGOLARI - RECTANGULAR PLATES

2 up to 15 kN						3 up to 42 kN									
Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum				
200		200		200		250		250		250					
400		500		600		500		600		700					
38		38		38		38		38		38					
200		250		300		250		300		400					
24	9	30	11	36	13	36	12	43	14,5	51	17				
9.61.IE2040S2	9.61.IE2040A2	9.61.IE2050S2	9.61.IE2050A2	9.61.IE2060S2	9.61.IE2060A2	9.61.IE32550S2	9.61.IE32550A2	9.61.IE32560S2	9.61.IE32560A2	9.61.IE32570S2	9.61.IE32570A2				
1.135	1.135	1.257	1.257	1.366	1.366	1.413	1.413	1.552	1.552	1.713	1.713				
Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum				
400		400		400		400		500		500		500		500	
500		600		700		800		600		700		800		900	
38		38		38		38		38		38		38		38	
200		200		200		200		250		250		250		250	
300		400		500		600		300		400		500		600	
59	21	71	26	83	30	95	34	88	29	102,5	34,5	117	39	132	45
9.61. IE4050S4	9.61. IE4050A4	9.61. IE4060S4	9.61. IE4060A4	9.61. IE4070S4	9.61. IE4070A4	9.61. IE4080S4	9.61. IE4080A4	9.61. IE35060S4	9.61. IE35060A4	9.61. IE35070S4	9.61. IE35070A4	9.61. IE35080S4	9.61. IE5080A4	9.61. IE35090S4	9.61. IE35090A4
1.794	1.794	2.083	2.083	2.547	2.547	2.962	2.962	2.547	2.547	2.846	2.846	3.171	3.171	3.472	3.472
Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum		
400		400		400		400		500		500		500		-	
500		600		700		800		800		900		1000		-	
38		38		38		38		38		38		38		-	
200		200		200		200		250		250		250		-	
150		200		250		300		250		300		350		-	
59	21	71	26	83	30	95	34	117	39	132	45	147	49	-	-
9.61. IE4050S6	9.61. IE4050A6	9.61. IE4060S6	9.61. IE4060A6	9.61. IE4070S6	9.61. IE4070A6	9.61. IE4080S6	9.61. IE4080A6	9.61. IE35080S6	9.61. IE35080A6	9.61. IE35090S6	9.61. IE35090A6	9.61. IE35010S6	9.61. IE5080A6	-	-
1.794	1.794	2.083	2.083	2.547	2.547	2.962	2.962	3.171	3.171	3.472	3.472	4.050	4.050	-	-

! Alluminio - Anticorodal - ossidazione dura
 Alloy 6082 - Anticorodal - Hard anodizing

Sistema / System

DOUBLE ZERO POINT

Ancoraggio di attrezzature o particolari su sovratavola a reticolo

Fixtures or workpieces clamping in many different positions on grid interface plate

CARATTERISTICHE & VANTAGGI

- ✓ OTTIMIZZAZIONE DELLA PRODUZIONE (Pag. 9.5)
- ✓ ABBATTIMENTO DEI TEMPI DI ALLESTIMENTO MACCHINA (Pag. 9.9)
- ✓ RISPARMIO SULLE ATTREZZATURE
- ✓ MASSIMA VERSATILITÀ
- ✓ RAPIDA RICONFIGURAZIONE
- ✓ LAVORAZIONI DU 5 LATI (CONTORNATURA)

TECHNICAL FEATURES & ADVANTAGES

- ✓ PRODUCTION OPTIMIZATION (Page 9.5)
- ✓ MINIMUM MACHINE SET UP TIMES (Page 9.9)
- ✓ SAVING ON FIXTURES
- ✓ MAX VERSATILITY
- ✓ IMMEDIATE RECONFIGURATION
- ✓ 5 SIDES MACHINING POSSIBILITY (PROFILE MILLING)

QUALITÀ GERARDI

- ✓ RIPETIBILITÀ ENTRO 0,005 MM
- ✓ PINZA ELASTICA INTEGRALE PER UN MIGLIORE E PIÙ PRECISO POSIZIONAMENTO E RIMOZIONE DELLE ATTREZZATURE
- ✓ TUTTI I COMPONENTI SONO IN ACCIAIO TEMPRATO E RETTIFICATO
- ✓ QUALITÀ GARANTITA DA ANNI DI COLLAUDO NELLA PROPRIA OFFICINA
- ✓ START UP IMMEDIATO! VERIFICA DELLA PRECISIONE SUI SUPPORTI E SULLE ATTREZZATURE CHE MONTANO ZERO-POINT.

GERARDI QUALITY

- ✓ REPOSITIONING ACCURACY WITHIN 0,005mm
- ✓ SOLID INTEGRAL ELASTIC COLLET FOR A BETTER AND MORE ACCURATE FIXTURES POSITIONING AND DISASSEMBLING
- ✓ ALL COMPONENTS MADE OF SPECIAL ALLOY OF STEEL CASE HARDENED AND GROUND HRC 60
- ✓ QUALITY GUARANTEED BY YEARS OF TESTS AND REAL USE IN OUR WORKSHOP AND 15 YEARS PRODUCTION AND MARKET PRESENCE IN THIS SPECIFIC PRODUCTS
- ✓ IMMEDIATE START UP! GUARANTEE OF DOUBLE CHECK ON ALL THE FIXTURES ASSEMBLED WITH ZERO-POINT BY GERARDI



Immediata riconfigurazione

Immediate re-positioning

Possibilità di posizionamento di particolari ed attrezzature in maniera indipendente tramite tiranti su piastre di interfaccia a reticolo personalizzate.

Possibility of independent positioning of workpieces and equipments through pull studs on customized grid interface plates.



Tiranti

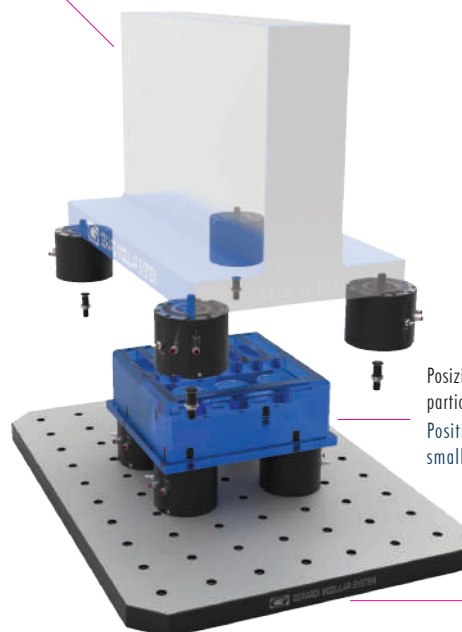
Pull Studs



I tiranti assicurano un corretto allineamento e posizionamento del particolare o dell'attrezzatura da serrare. Esistono tiranti Maschio e tiranti Femmina a secondo dell'applicazione

The Pull Studs ensure a correct alignment and positioning of the fixtures or can be also assembled directly on the workpiece and they can be male or female according to the application needs

Esempio di posizionamento con interasse più largo
Positioning example of a bigger fixture



Posizionamento di un particolare più piccolo
Positioning of a smaller workpiece

Piastra base a reticolo
Grid base plate

L'evoluzione Zero Point continua...

Lo Zero Point doppio nasce dall'esigenza di dover serrare particolari ed attrezzature delle più svariate forme e dimensioni sulla stessa piastra base. Grazie ad un sistema a reticolo personalizzato otteniamo una IMMEDIATA RICONFIGURAZIONE, garantendo sempre la massima precisione e consentendo la completa accessibilità e lavorazioni su 5 lati. Grazie a questo sistema potrete rimuovere in pochi secondi le attrezzature dalla macchina risparmiando fino al 95% sui tempi di allestimento, incrementando la produzione e riducendo notevolmente gli scarti. Lo Zero Point doppio permette di cambiare la posizione delle unità Zero Point per ancorare e posizionare attrezzature o particolari anche di diverse dimensioni sulla stessa piastra base

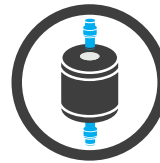
The Zero Point evolving goes on...

Double Zero Point has been developed by the need to clamp workpieces and fixtures of all kind of shapes and sizes on the same base plate. Thanks to a grid system you can get an IMMEDIATE RECONFIGURATION always granting the highest precision and allowing max. accessibility and machining on 5 sides. Zero Point allows you to set up jobs in few seconds on the machine, saving around 95% set up time, increasing production and reducing scrapes. Double zero point allows to change the position of the Zero Point units to clamp and position fixtures and workpieces even of different sizes on the same base plate



Tirante per attrezzatura
Pull Stud for fixture

Tirante per piastra base
Pull Stud for head plate



SCAN IT TO WATCH THE



VIDEO PRESENTATION



L'evoluzione continua Never stop evolving



Estrema versatilità
Extreme versatility

Le unità Zero Point doppie possono infatti essere posizionate a diversi interassi tramite piastre con reticolo di fori calibrati

Double Zero Point units can be positioned with different pitches on customized calibrated grid plates.



Incremento forza opzionale
Optional clamping force increase

La funzione DOPPIO EFFETTO, possibile con zero point singoli (ermetico), permette di ottenere parametri di serraggio notevolmente superiori rispetto al normale funzionamento grazie alla valvola di non ritorno. Quando è azionata l'aria compressa aggiunge una forza pneumatica in supporto al normale sistema di serraggio tramite molle.

The DOUBLE EFFECT, possible with the single zero point units (hermetic), always included, allows to get clamping results much higher than the normal thanks to the non-return valve. When the double effect is operated the air adds a pneumatic clamping power which supports and increases the normal clamping through springs.



Facilità di utilizzo
High clamp force

Lo Zero Point doppio come tutti gli Zero Point permette di rimuovere in pochi secondi l'attrezzatura, in modo da poter effettuare l'attrezzaggio a banco, risparmiando fino al 95% dei tempi di allestimento.

Double Zero Point allows you to remove the equipment in a few seconds and quickly position the new equipment on the machine, saving around 95% set up time.

ZERO POINT DOPPIO

DOUBLE ZERO POINT

Tipo (grandezza) Zero-Point
 Zero-Point type (size)

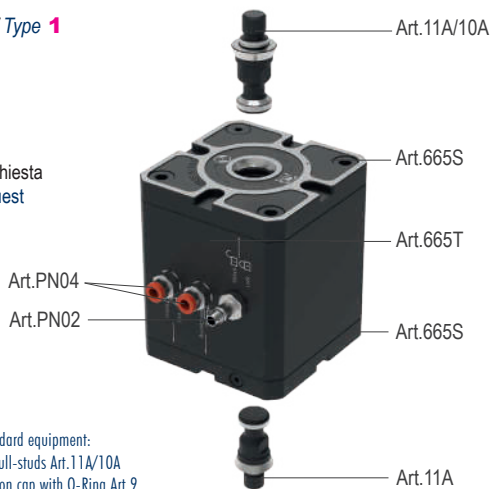
kN

1
 up to 12,5 kN

Art. 665T *Tipo / Type 1*

Zero Point doppio Art.665T
 Double Zero Point Art.665T

Opzione **DOPPIO EFFETTO** a richiesta
DOUBLE EFFECT option on request



- Standard equipment:
 ■ 2 Pull-studs Art.11A/10A
 ■ Teflon cap with O-Ring Art.9

kg

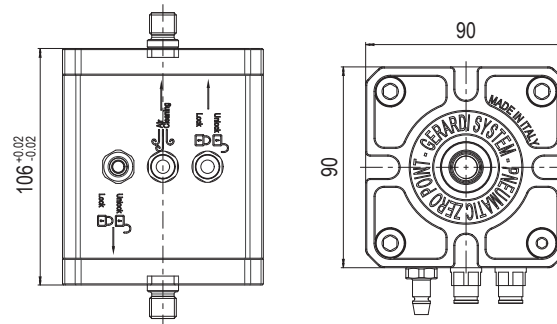
5,2

Cod.

9.66.5T100

€

1.506



Tipo (grandezza) Zero-Point
 Zero-Point type (size)

kN

2
 up to 15 kN

Art. 665T *Tipo / Type 2*

Zero Point doppio Art.665T
 Double Zero Point Art.665T



- Dotazione standard:
 ■ 2 tiranti Art.11A/10A
 ■ 1 tappo teflon con O-Ring Art.9
- Standard equipment:
 ■ 2 Pull-studs Art.11A/10A
 ■ Teflon cap with O-Ring Art.9

kg

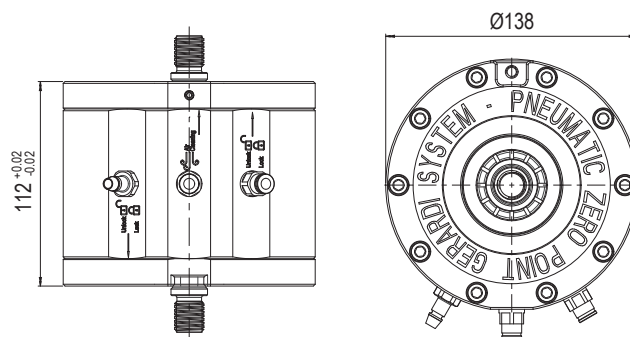
9,7

Cod.

9.66.5T200

€

1.969



Tipo (grandezza) Zero-Point
 Zero-Point type (size)

kN

3
 up to 42 kN

Art. 665T *Tipo / Type 3*

Zero Point doppio Art.665T
 Double Zero Point Art.665T

Opzione **DOPPIO EFFETTO** a richiesta
DOUBLE EFFECT option on request



- Dotazione standard:
 ■ 2 tiranti Art.11A/10A
 ■ 1 tappo teflon con O-Ring Art.9
- Standard equipment:
 ■ 2 Pull-studs Art.11A/10A
 ■ Teflon cap with O-Ring Art.9

kg

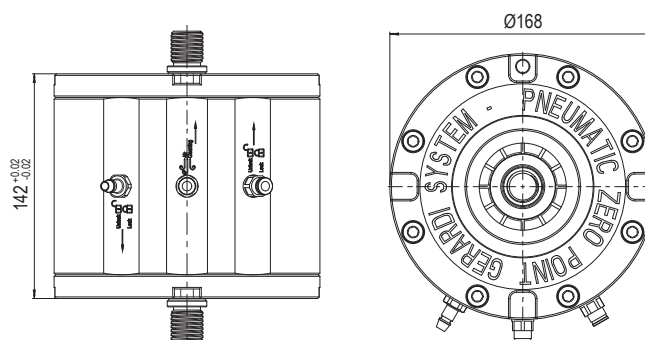
18,8

Cod.

9.66.5T300

€

2.316



PORTAPEZZI IN GHISA CON ZERO POINT CAST IRON TOMBSTONES WITH ZERO POINT

Il sistema Zero Point è predisposto per essere applicato all' ampia gamma di portapezzi, ampliando così la modularità del sistema Gerardi. In particolare:
 - Zero Point Pneumatico Art.665, montabile su portapezzi tramite l'utilizzo della flangia Art.665F

The Zero Point system has been designed to be used with the wide range of tombstones increasing in this way the modularity of the Gerardi system. In particular:
 - Pneumatic Zero Point Art.665, can be assembled on tombstones through the Art.665F flange

Art. 665

Montaggio incassato
 Built-in mounting



Art. 665F

Flangia
 Flange



Art. 665X

Montaggio verticale incassato con flangia
 Built-in vertical mounting with flange



Tipo Type	1	2	3
Kg	1,5	2,5	5,8
Cod.	9.66.51000	9.66.52000	9.66.53000
€	509	826	1.075

Tipo Type	1	2	3
Kg	1,7	3,3	-
Cod.	9.66.5F100	9.66.5F200	9.66.5F300
€	97	130	183

Tipo Type	1	2	3
Kg	3,2	5,8	-
Cod.	9.66.5X100	9.66.5X200	9.66.5X300
€	605	951	1.255

PREDISPOSIZIONE E SEDI SU CUBO PER 8 UNITÀ ZERO POINT TOMBSTONE SET-UP WITH 8 SEATS FOR ZERO POINT

Cubo lavorato Art.53C
 Machined tombstone Art.53C

Cod. 8.53.C00171
 Dim. A=350 / B=500 / H=700



Tot.
€ 4.753

Zero Point 665X
 Zero Point 665X

€ 951
 Art.665X Tipo 2

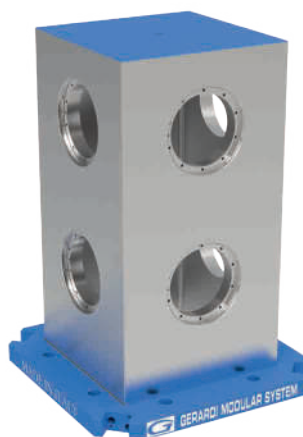


n° Zero
 Point
 Zero
 Point n°
x 8

Tot.
€ 7.608

Predisposizione e sedi*
 Set-up and Zero Point seats*

€ 129 Per sede / each seat



Tot.
€ 1.033

Cubo con morse
 Cube with vises



Tot.
€ 13.394

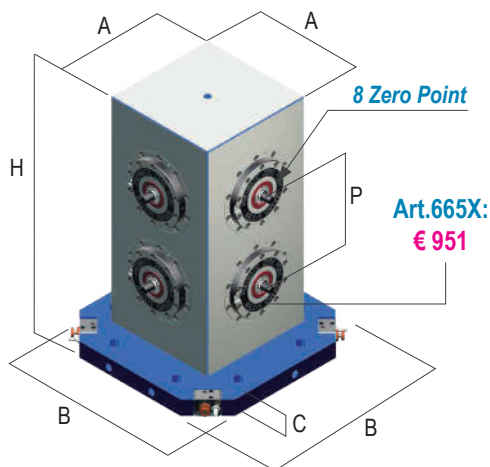
* Montaggio e allineamento 8 Zero Point incluso di viti, chiavette, staffe e quant'altro necessario.
 4 Zero point mounting and alignment includes screws, keyways, holding clamps and all the necessary equipment.

PORTAPEZZI IN GHISA CON ZERO POINT INCASSATI CAST IRON TOMBSTONES WITH BUILT-IN ZERO POINT

Base lavorata e raschiata per pallet a norme Europee o Giapponesi.
Vedi specifiche a pagina 8.6

Base face machined and hand scraped for direct clamping on European or Japanese standard pallet.
See specifications pag. 8.6

Art. 53P

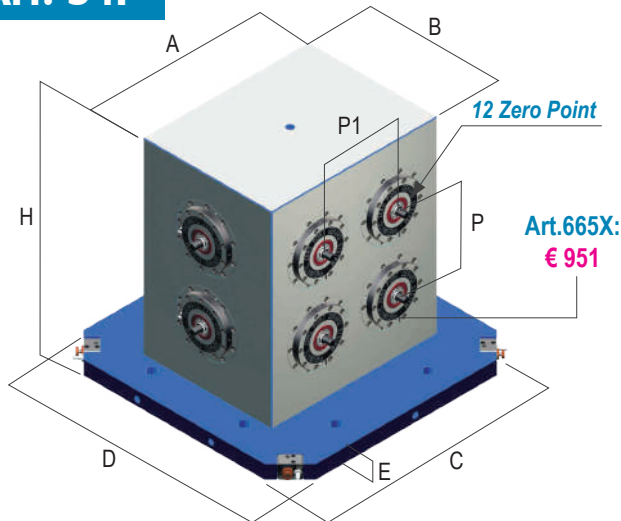


Gestione apertura Zero-Point indipendente per ogni lato.
Zero-Point opened from each sides independently.

Dimensioni - Dimensions

A	B	C	H	P	kg	Cod.	€
200	350	40	370	150	99	9.53.P00040	8.100 (Art.665x T.1)
200	350	40	525	150	128	9.53.P00045	8.379 (Art.665x T.1)
200	500	40	600	200	179	9.53.P00050	8.784 (Art.665x T.1)
250	400	40	450	200	150	9.53.P00060	11.258
250	450	40	450	200	164	9.53.P00070	11.481
250	400	40	550	250	174	9.53.P00080	11.419
250	400	40	660	300	201	9.53.P00081	11.758
250	380	30	560	200	201	9.53.P00082	11.481
250	500	40	610	250	215	9.53.P00090	12.005
250	500	40	650	300	225	9.53.P00100	12.164
250	500	40	750	350	250	9.53.P00105	12.293
250	630	40	700	300	279	9.53.P00106	12.950
260	500	45	1000	450	311	9.53.P00107	13.715
270	400	40	510	200	176	9.53.P00110	11.648
300	500	40	600	250	247	9.53.P00111	12.462
300	500	40	750	350	293	9.53.P00113	13.052
300	500	40	900	400	338	9.53.P00115	13.715
330	500	40	660	300	288	9.53.P00120	13.117
350	500	40	410	200	212	9.53.P00140	12.022
350	500	40	450	200	226	9.53.P00150	12.236
350	500	40	550	250	263	9.53.P00160	12.683
350	500	40	610	250	284	9.53.P00170	12.994
350	500	40	700	300	317	9.53.P00171	13.397
350	630	40	700	300	359	9.53.P00172	14.073
350	630	40	820	350	402	9.53.P00180	14.979
350	500	40	820	350	358	9.53.P00181	14.648
350	630	40	950	450	450	9.53.P00185	15.401
450	630	40	550	250	367	9.53.P00190	14.150
450	630	40	650	300	415	9.53.P00200	14.852
500	630	40	860	400	565	9.53.P00211	17.011
550	750	40	850	400	656	9.53.P00220	18.389
500	800	40	800	350	600	9.53.P00230	17.636
630	800	40	1050	350	1556	9.53.P00235	29.109

Art. 54P



Gestione apertura Zero-Point indipendente per ogni lato.
Zero-Point opened from each sides independently.

Dimensioni - Dimensions

A	B	C	D	E	H	P	P1	kg	Cod.	€
300	200	450	300	40	360	160	-	127	9.54.P00010	11.342 (8 Art.665x T.2)
350	250	400	400	40	550	250	160	205	9.54.P00040	16.419
350	250	500	500	40	750	350	160	292	9.54.P00070	17.363
300	200	400	400	40	550	250	-	174	9.54.P00080	11.620 (8 Art.665x T.2)
450	350	630	630	40	550	250	200	336	9.54.P00100	18.037
450	350	630	630	40	650	300	200	340	9.54.P00110	18.715
550	350	630	630	40	650	300	300	413	9.54.P00120	19.148

Modelli normalmente presenti a magazzino

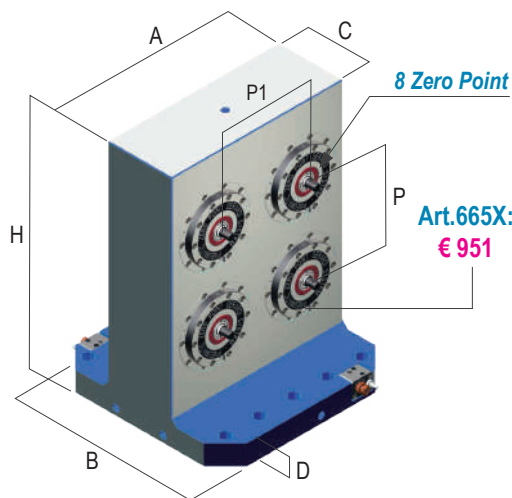
! Per lavorazioni o materiali diversi (alluminio), richiedere quotazione specifica - For different finishing and materials (aluminum), ask for specific quotation
(x) = n° Zero Point come da figura - (x) = n° Zero Point pieces shown in the image

PORTAPEZZI IN GHISA CON ZERO POINT INCASSATI CAST IRON TOMBSTONES WITH BUILT-IN ZERO POINT

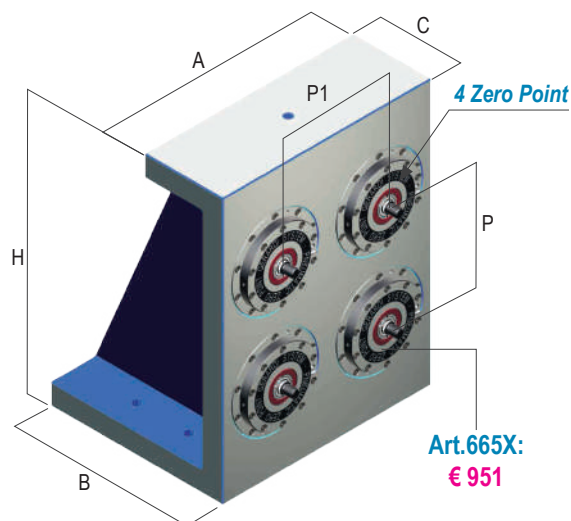
Base lavorata e raschiata per pallet a norme Europee o Giapponesi.
Vedi specifiche a pagina 8.6

Base face machined and hand scraped for direct clamping on European or Japanese standard pallet.
See specifications pag. 8.6

Art. 55P



Art. 56P



Dimensioni - Dimensions

A	B	C	D	H	P	P1	kg	Cod.	€
350	250	80	50	415	200	180	103	9.55.P00040	10.619
300	440	80	50	300	150	150	109	9.55.P00044	10.674
300	440	150	50	630	250	150	185	9.55.P00045	11.470
400	350	100	50	525	200	200	190	9.55.P00050	11.524
400	400	150	50	500	200	200	193	9.55.P00051	11.445
400	400	150	45	660	300	200	222	9.55.P00052	11.992
500	500	150	45	700	300	250	290	9.55.P00053	13.117
500	500	200	50	600	250	250	287	9.55.P00054	12.988
500	500	260	40	625	250	250	310	9.55.P00055	13.243
450	350	100	50	525	200	200	208	9.55.P00060	11.783
450	350	100	50	620	250	200	245	9.55.P00070	12.259
550	350	100	60	650	300	250	321	9.55.P00080	13.346
500	350	150	50	650	300	250	263	9.55.P00090	12.568
450	350	150	50	610	250	200	250	9.55.P00120	12.338
450	350	150	50	750	350	200	271	9.55.P00125	12.682
550	350	150	60	670	300	250	303	9.55.P00150	13.141
550	450	150	50	820	350	250	369	9.55.P00160	14.136
630	450	150	50	820	350	300	418	9.55.P00170	14.852
630	450	250	60	900	400	300	508	9.55.P00171	16.129
630	630	200	50	850	400	300	504	9.55.P00172	16.040
630	630	250	50	700	300	300	447	9.55.P00173	15.299
350	450	150	60	650	300	180	213	9.55.P00180	11.994
800	450	150	60	850	400	400	555	9.55.P00190	16.935
800	800	300	50	800	350	400	674	9.55.P00191	18.632
800	800	200	50	1000	250	250	814	9.55.P00192	19.563
1200	850	250	60	1300	400	400	1374	9.55.P00230	29.109
1250	1250	400	40	1500	400	400	-	9.55.P00235	36.823

Dimensioni - Dimensions

A	B	C	H	P	P1	kg	Cod.	€
350	150	40	250	-	160	42	9.56.P00008	3.830 (2 Art.665x T.2)
300	220	100	300	-	160	57	9.56.P00009	3.913 (2 Art.665x T.2)
350	230	100	360	160	160	75	9.56.P00010	6.158
400	280	100	400	200	200	100	9.56.P00011	6.351
400	330	150	510	250	200	140	9.56.P00030	6.561
500	340	150	500	250	250	166	9.56.P00031	6.842
450	330	150	460	200	200	142	9.56.P00040	6.580
450	330	150	610	300	200	174	9.56.P00050	6.928
630	435	150	630	300	300	262	9.56.P00051	8.092
500	230	100	360	160	250	101	9.56.P00060	6.408
550	430	200	810	400	250	298	9.56.P00080	8.565
650	330	150	660	300	300	245	9.56.P00100	8.310
200	300	50	700	350	-	90	9.56.P00101	4.164 (2 Art.665x T.2)
800	330	150	560	250	400	266	9.56.P00110	8.255
800	525	200	800	400	400	452	9.56.P00111	10.595
800	430	200	800	400	400	402	9.56.P00120	10.071
1015	500	85	1010	400	400	629	9.56.P00130	13.232
1015	610	85	1215	400	400	695	9.56.P00140	14.555
1800	825	138	1500	400	400	-	9.56.P00150	25.501

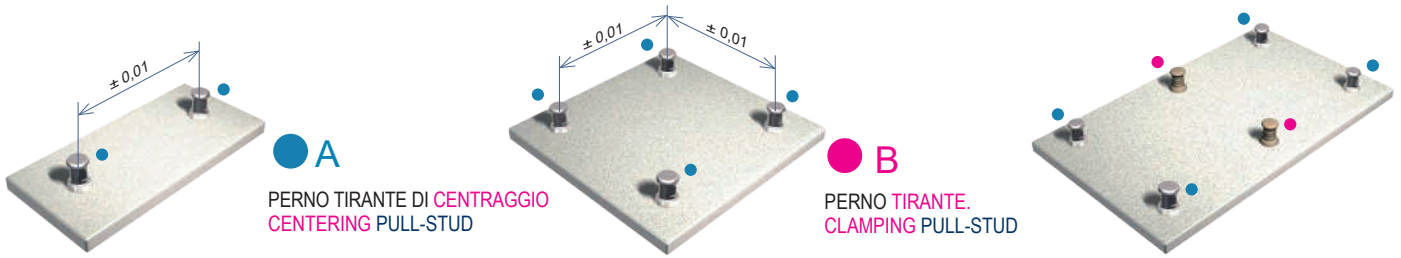
Available usually immediately

! Per lavorazioni o materiali diversi (alluminio), richiedere quotazione specifica - For different finishing and materials (aluminum), ask for specific quotation
(x) = n° Zero Point come da figura - (x) = n° Zero Point pieces shown in the image

TIRANTI TIPO 1

PULL-STUD TYPE 1

Il fissaggio ed il posizionamento delle attrezzature, o del particolare da lavorare, si effettua tramite i tiranti **Art.10** e **Art.11**
 The clamping and the positioning of the fixtures, or directly the workpiece, is done through pull-studs **Art.10** and **Art.11**



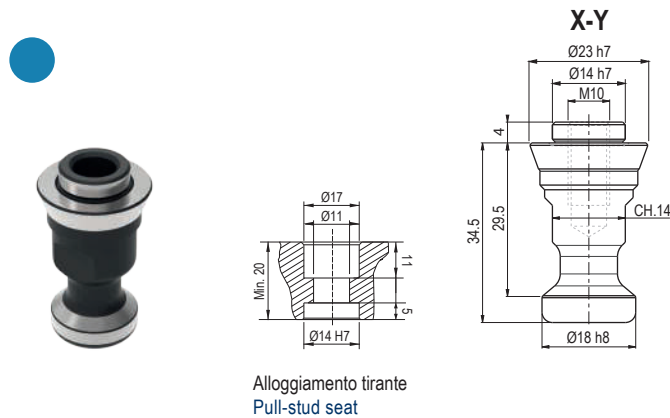
A
 PERNO TIRANTE DI **CENTRAGGIO**
 CENTERING PULL-STUD

B
 PERNO **TIRANTE**.
 CLAMPING PULL-STUD

Il tipo "A" si utilizza per il centraggio e il serraggio, mentre il tipo "B" solo per il serraggio
 Type "A" is used for both centering and clamping, while type "B" is only for clamping

Art. 10A

Perno tirante di **centraggio**. Filetto femmina
 Centering pull-stud. Female thread

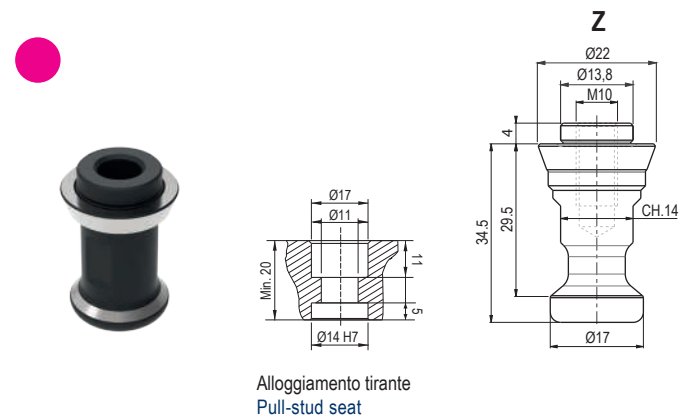


Alloggiamento tirante
 Pull-stud seat

Cod.	9.10.A1000
€	41

Art. 10B

Perno **tirante**. Filetto femmina
 Clamping pull-stud. Female thread

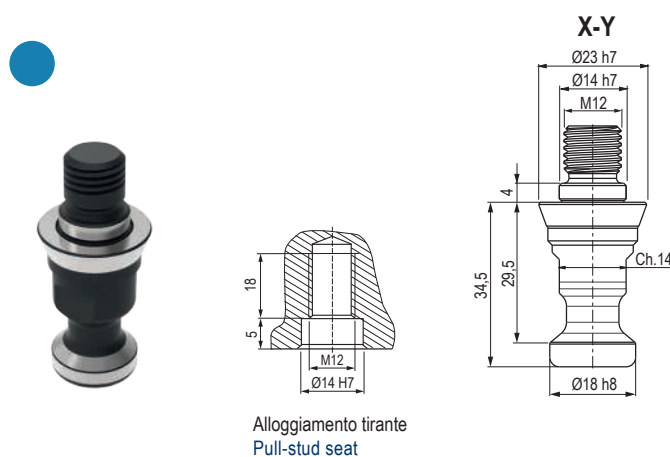


Alloggiamento tirante
 Pull-stud seat

Cod.	9.10.B1000
€	41

Art. 11A

Perno tirante di **centraggio**. Filetto maschio
 Centering pull-stud. Male thread

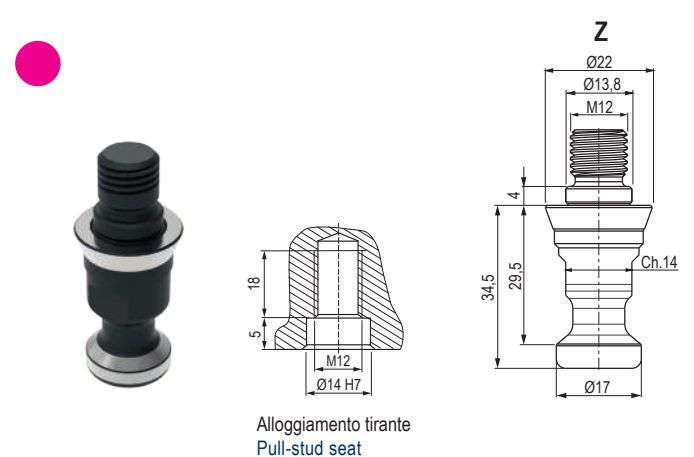


Alloggiamento tirante
 Pull-stud seat

Cod.	9.11.A1000
€	41

Art. 11B

Perno **tirante**. Filetto maschio
 Clamping pull-stud. Male thread



Alloggiamento tirante
 Pull-stud seat

Cod.	9.11.B1000
€	41

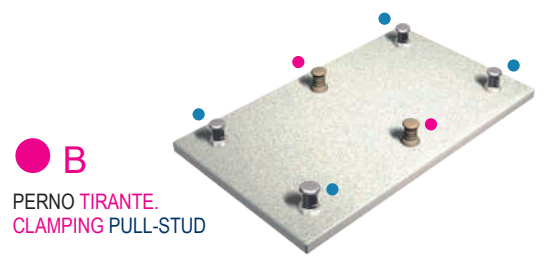
TIRANTI TIPO 2

PULL-STUD TYPE 2

Il fissaggio ed il posizionamento delle attrezzature, o del particolare da lavorare, si effettua tramite i tiranti **Art.10** e **Art.11**
 The clamping and the positioning of the fixtures, or directly the workpiece, is done through pull-studs **Art.10** and **Art.11**



A
 PERNO TIRANTE DI **CENTRAGGIO**
 CENTERING PULL-STUD

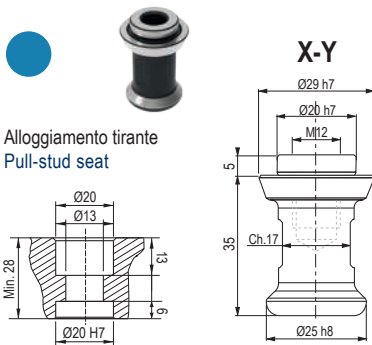


B
 PERNO TIRANTE.
 CLAMPING PULL-STUD

Il tipo "A" si utilizza per il centraggio e il serraggio, mentre il tipo "B" solo per il serraggio
 Type "A" is used for both centering and clamping, while type "B" is only for clamping

Art. 10A

Perno tirante di **centraggio**. Filetto femmina
 Centering pull-stud. Female thread

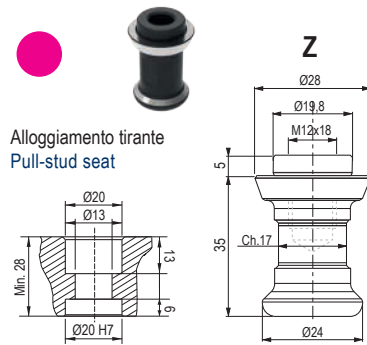


Disponibile con sede TIPO 1 (Ø14h7 / M10)
 Available with TYPE 1 hole (Ø14h7 / M10)

Cod.	9.10.A2000
€	41

Art. 10B

Perno **tirante**. Filetto femmina
 Clamping pull-stud. Female thread



Cod.	9.10.B2000
€	41

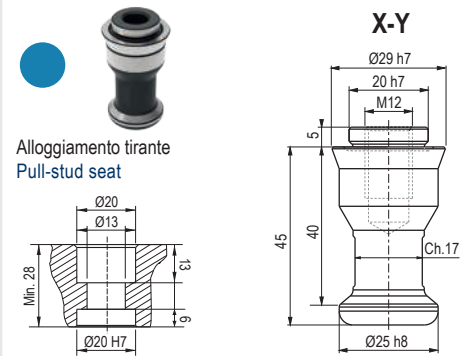
ZERO POINT SINGOLO TIPO 2

SINGLE ZERO POINT TYPE 2



Art. 10S

Perno tirante di **centraggio** per Zero Point **singolo**. Filetto femmina
 Centering pull-stud for **single** Zero Point. Female thread

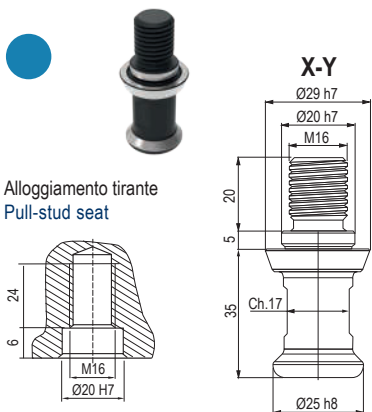


Disponibile con sede TIPO 1 (Ø14h7 / M10)
 Available with TYPE 1 hole (Ø14h7 / M10)

Cod.	9.10.S2000
€	41

Art. 11A

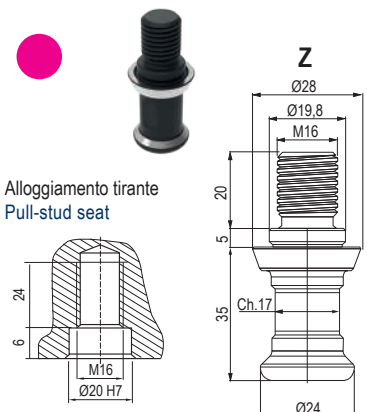
Perno tirante di **centraggio**. Filetto maschio
 Centering pull-stud. Male thread



Cod.	9.11.A2000
€	41

Art. 11B

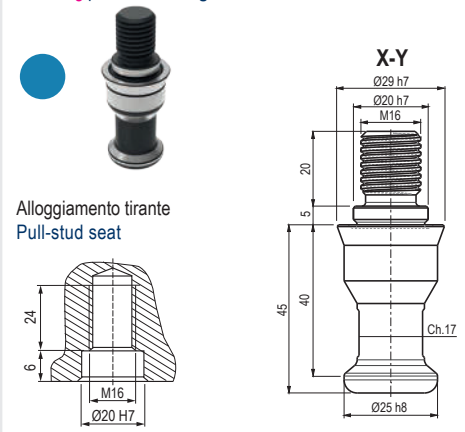
Perno **tirante**. Filetto maschio
 Clamping pull-stud. Male thread



Cod.	9.11.B2000
€	41

Art. 11S

Perno tirante di **centraggio** per Zero Point **singolo**. Filetto maschio
 Centering pull-stud for **single** Zero Point. Male thread

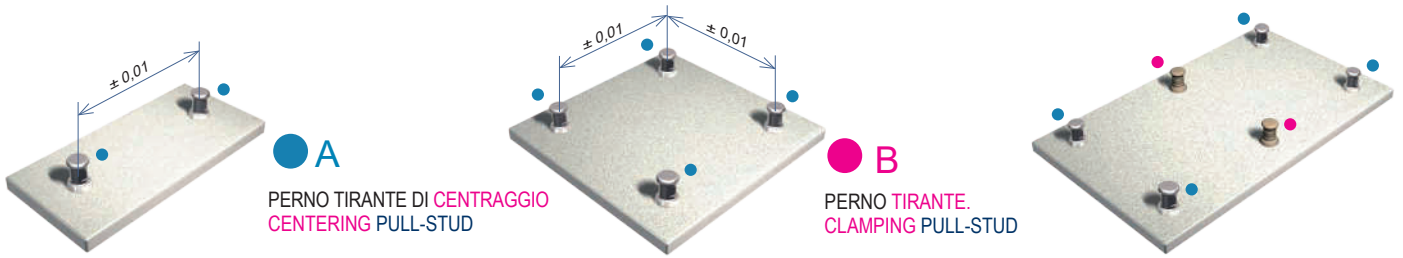


Cod.	9.11.S2000
€	41

TIRANTI TIPO 3

PULL-STUD TYPE 3

Il fissaggio ed il posizionamento delle attrezzature, o del particolare da lavorare, si effettua tramite i tiranti **Art.10 e Art.11**
 The clamping and the positioning of the fixtures, or directly the workpiece, is done through pull-studs **Art.10 and Art.11**



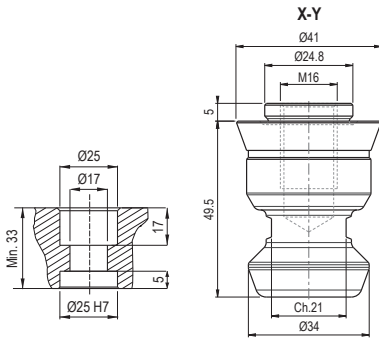
A
 PERNO TIRANTE DI CENTRAGGIO
 CENTERING PULL-STUD

B
 PERNO TIRANTE.
 CLAMPING PULL-STUD

Il tipo "A" si utilizza per il centraggio e il serraggio, mentre il tipo "B" solo per il serraggio
 Type "A" is used for both centering and clamping, while type "B" is only for clamping

Art. 10A

Perno tirante di centraggio. Filetto femmina
 Centering pull-stud. Female thread



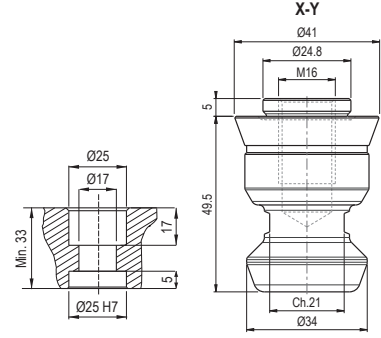
Alloggiamento tirante
 Pull-stud seat

Cod. 9.10.A3000

€ 68

Art. 10B

Perno tirante. Filetto femmina
 Pull-stud. Female thread



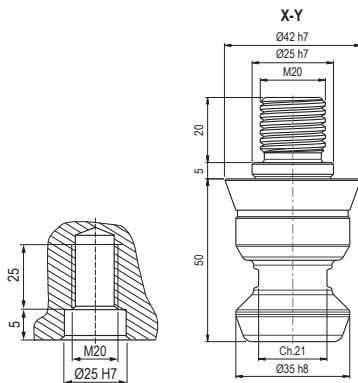
Alloggiamento tirante
 Pull-stud seat

Cod. 9.10.B3000

€ 68

Art. 11A

Perno tirante di centraggio. Filetto maschio
 Centering pull-stud. Male thread



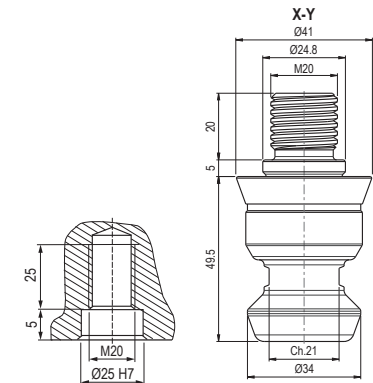
Alloggiamento tirante
 Pull-stud seat

Cod. 9.11.A3000

€ 68

Art. 11B

Perno tirante. Filetto maschio
 Pull-stud. Male thread



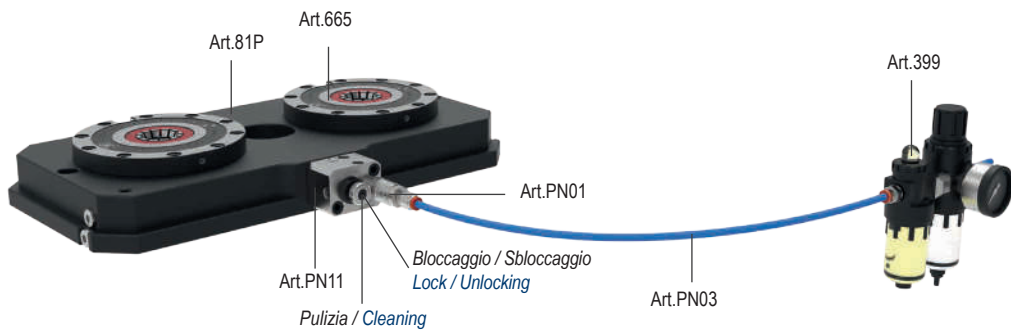
Alloggiamento tirante
 Pull-stud seat

Cod. 9.11.B3000

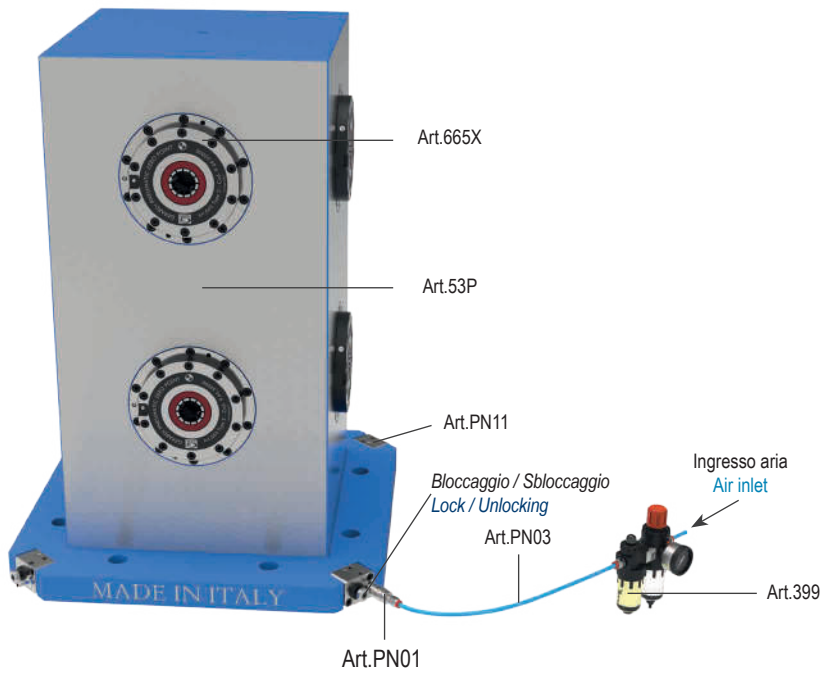
€ 68

KIT PER AZIONAMENTO DI PIU PIASTRE (O CUBO) CON ZERO POINT

KIT FOR ZERO POINT PLATE (OR CUBE) CONTROL



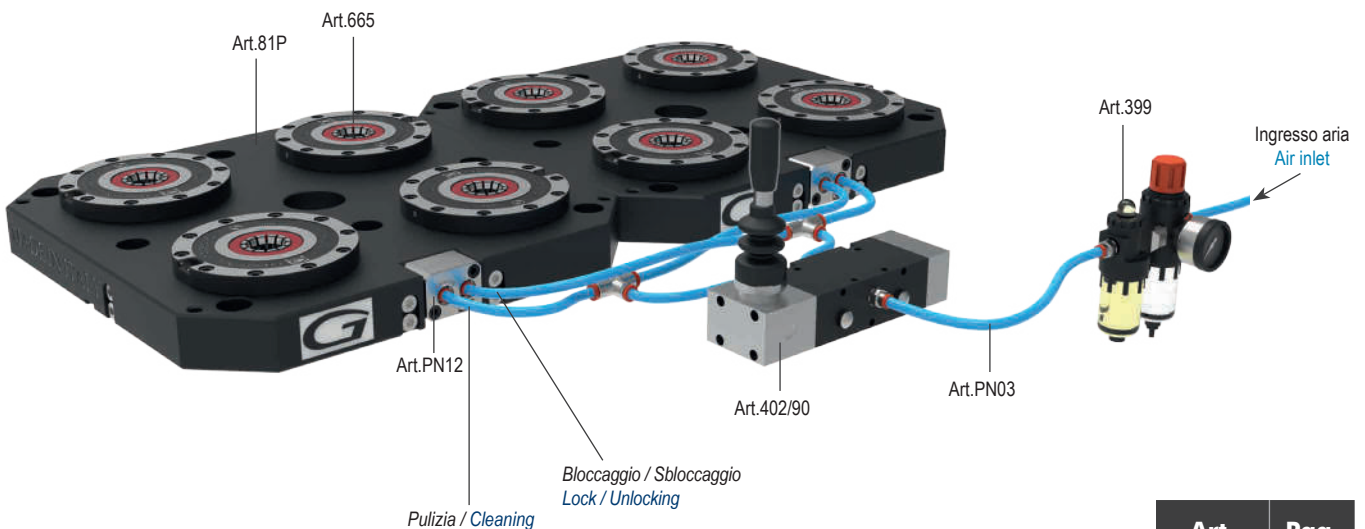
Art.	Pag.
PN01	9.44
PN03	9.44
PN11	9.44
399	9.45



Art.	Pag.
PN01	9.44
PN03	9.44
PN11	9.44
399	9.45

KIT PER AZIONAMENTO SIMULTANEO DI PIU PIASTRE (O CUBI) CON ZERO POINT

KIT FOR MULTIPLE ZERO POINT PLATES (OR CUBES) WHIT SIMULTANEOUS CONTROL



Art.	Pag.
PN03	9.44
402/90	9.45
399	9.45

- Attacco rapido Art.PN01 a richiesta (o da ordinare con Art.PN02)
 - Quick connection Art.PN01 on request (to be ordered with Art.PN02)

ACCESSORI & RACCORDI per ZERO POINT PNEUMATICI

ACCESSORIES & CONNECTIONS FOR PNEUMATIC ZERO POINT

		Cod.	€
Art. PN01 Attacco rapido femmina Female connection		1 / 4" Gas 9.PN.01F00-14	38
		1 / 8" Gas 9.PN.01F00-18	
Art. PN02 Innesto rapido maschio Quick male coupling		1 / 4" Gas 9.PN.02M00-14	14
		1 / 8" Gas 9.PN.02M00-18	
Art. PN03 Tubo pneumatico aria Pneumatic air pipe		Ø 6 x 1m 9.PN.03006	11
		Ø 8 x 1 m 9.PN.03008	11
Art. PN04 Raccordo diretto cilindrico maschio Straight male adaptor		Ø 6 - 1 / 8" Gas 9.PN.04M06-18	9
		Ø 8 - 1 / 8" Gas 9.PN.04M08-18	
Art. PN05 Tappo Cap		1 / 4" Gas 9.PN.05000-14	6
		1 / 8" Gas 9.PN.05000-18	
Art. PN06 Raccordo a "L" maschio cilindrico girevole "L" rotary male adaptor parallel		Ø 6 - 1 / 8" Gas 9.PN.06M06-18	10
		Ø 8 - 1 / 8" Gas 9.PN.06M08-18	
Art. PN07 Raccordo a "T" centrale maschio cilindrico girevole "T" rotary central adaptor		Ø 6 - 1 / 8" Gas 9.PN.07M06-18	12
		Ø 8 - 1 / 8" Gas 9.PN.07M08-18	
Art. PN08 Riduzione Ø8 Reducer Ø8		9.PN.08000	11
Art. PN09 Tappo Cap		Ø 6 9.PN.09006	6
		Ø 8 9.PN.09008	
Art. PN10 Blocchetto di connessione con innesto rapido - 1/8" Gas Connection block with quick male coupling - 1/8" Gas		9.PN.10000	100
Art. PN11 Blocchetto di connessione con innesto rapido - 1/8" Gas Connection block with quick male coupling - 1/8" Gas		9.PN.11000	211
Art. PN12 Blocchetto di connessione con raccordo dritto Connection block with straight male		Ø 6 9.PN.12006	-
		Ø 8 9.PN.12008	
Art. PN13 Attacco rapido femmina per versioni con doppio effetto Female connection for double effect version		9.PN.13000	53
Art. PN14 Innesto rapido maschio - 1/4" Gas per versioni con doppio effetto Quick male coupling - 1/4" Gas for double effect version		9.PN.14000	13
Art. PN15 Innesto rapido valvolato maschio - 1/4" Gas per versioni con doppio effetto Quick male valved coupling - 1/4" Gas for double effect version		9.PN.15000	47

ACCESSORI & RACCORDI PER ZERO POINT

ACCESSORIES & CONNECTIONS FOR ZERO POINT

		Cod.	€	
Art. PN18 Valvola pneumatica a 1 via con comando elettrico One way pneumatic valve with electrical control		Campi di regolazione BAR Setting range BAR 1 - 10	9.PN.18010	158
		Campi di regolazione BAR Setting range BAR 10 - 25	9.PN.18025	158
Art. PN20 Valvola pneumatica a 5 vie con comando elettrico Five ways pneumatic valve with electrical control			9.PN.2000/5	142
Art. PN21 Valvola pneumatica a 3 vie con comando elettrico Three ways pneumatic valve with electrical control			9.PN.2100/3	73
Art. 9 Tappo teflon con O-Ring Teflon Cap with O-Ring		Type 1	9.09.10000	17
		Type 2	9.09.20000	17
		Type 3	9.09.30000	19
Art. 665Z Tappo rettificato a filo Zero Point Grinded cap for Zero Point		Type 1 <input type="checkbox"/>	8.66.5ZQ10	-
		Type 2 <input type="checkbox"/> <input type="checkbox"/>	8.66.5ZQ20 / 8.66.5Z200	200
		Type 3 <input type="checkbox"/>	8.66.5Z300	-
Art. 399 Gruppo filtro riduttore più lubrificatore Compressed air preparation unit			4.39.90000	185
Art. 400 Pedale bistabile Two position foot pedal			4.40.00000	205
Art. 402 Valvola pneumatica frontale, 2 vie Frontal pneumatic valve, 2 ways			4.40.20000-14	95
Art. 402/90 Distributore leva angolare a 90°, 3 vie 90° angular valve, 3 ways			9.40.29000	208
Art. 408 Moltiplicatore di pressione aria. Completo di manometro e valvola. Il sistema deve utilizzare aria essiccata e lubrificata (Art.399 opzionale) Pressure air multiplier. Complete of pressure gauge and valve. The system should be used with dry and lubricated air (option Art.399)			9.40.80000	887
Art. 8 Spina di precentraggio Precentering Pin			9.08.10000	171
Art. 297X Tasselli a Gioco Zero per il posizionamento preciso di morse singole su zero point NO-GAP key nuts for accurate single vise positioning on zero point			B = 12 - 14 - 16 - 18 - 20	34
			297X1612 / 14 / 16 / 18 / 20	
Art. ESTRO1 Estrattore per spina di riferimento Zero Point Dowel extractor for Zero Point reference pin			0.ES.TR1540BT	184

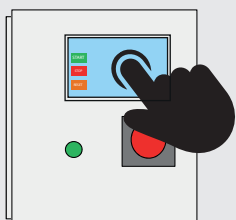
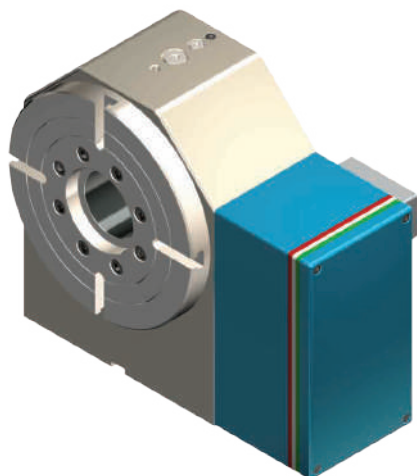
DIVISORE AUTOMATICO DPG 250

AUTOMATIC DIVIDING HEAD DPG 250

Divisore automatico
 Automatic dividing head

Dati tecnici
 Technical Data

DPG 250










PROGRAMMAZIONE TOUCH SCREEN
 FACILE ED INTUITIVA O TRAMITE COLLEGAMENTO
 DIRETTO AL CNC

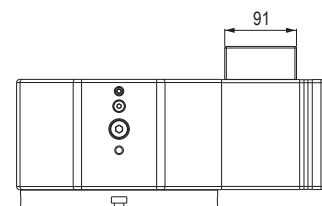
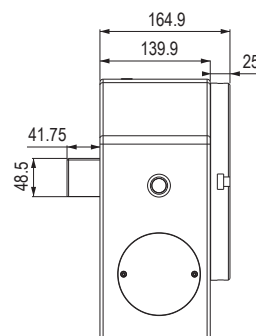
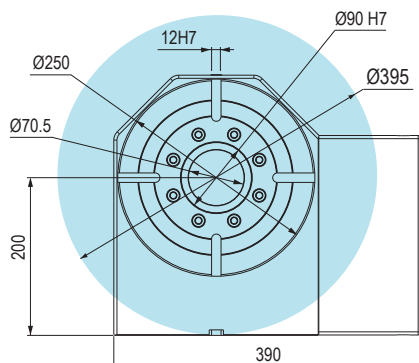
EASY AND INTUITIVE TOUCH SCREEN
 PROGRAMMING OR THROUGH DIRECT
 CONNECTION TO THE CNC

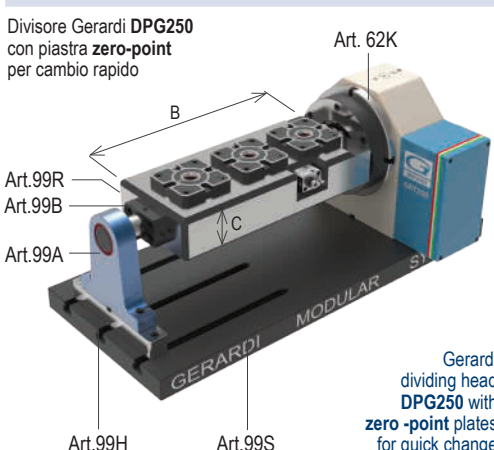
- Installazione semplice (alimentazione 220V)
- Corona in bronzo speciale
- Controsupporto semplice
- Vite senza fine in acciaio temprato e rettificato
- Vite e corona in bagno d'olio
- Cuscinetti a vite precaricati
- Cuscinetto anteriore a rulli incrociati sovradimensionato
- Recupero gioco con avvicinamento assiale
- Completa tenuta stagna ai liquidi con possibilità di pressurizzazione
- Possibilità di montare motori di tutte le marche
- Dimensioni esterne contenute
- Finestra di controlli liquidi e condensa
- Lavorazione in posizionamento a 360°

- Easy installation (220V)
- Special bronze crown
- Simple tailstock
- Worm screw in hardened ground steel
- Bath lubrication Screw and Crown
- Pre-loaded screw bearings
- Over-dimensioned crossed-roller front bearing
- Play recover with axial approach
- Watertight seal with possibility of pressurization
- Possibility to mount motors of all brands
- Reduced external dimensions
- Condensation and liquid control window
- 360° work positioning




Diametro del divisore Dividing head diameter		250 mm
Diametro del foro passante Clearance hole diameter		70,5 mm
Altezza punta Center height		200 mm
Dimensione della scanalatura a T T-Slot width		12 mm
Sistema di bloccaggio Clamping system		Idrraulico Hydraulic
Forza frenante Clamping torque		3000 Nm
Motore Servo motor		3000 Max.g/min
Minimo incremento Minimum increment		0,002
Velocità di rotazione Rotation speed		33,3 Giri/min
Rapporti vite/corona Speed reduction ratio (screw/gear)		1/90
Rapporti vite/motore Speed reduction ratio (screw/motor)		1/180
Precisione Indexing accuracy		±10 Sec.
Ripetibilità Repeatability		4 Sec.
Max. carico di lavoro sul divisore Max. allowable work weight on the dividing head	Verticale Vertical	 Kg.550
	Orizzontale Horizontal	 Kg.1500
Max. carico di spinta applicabile sul divisore Max. allowable tool load on the dividing head		 N 25000
		 FxL Nm 1000
		 FxL Nm 2200
Rapporti vite/corona Speed reduction ratio (screw/gear)	Verticale Vertical	 10,5 Kg. m ²
Coppia in lavoro Driving torque	Corona dentata Worm gear	 698 Nm
Kg		110
Cod.		8.DP.G2500
€		22.533

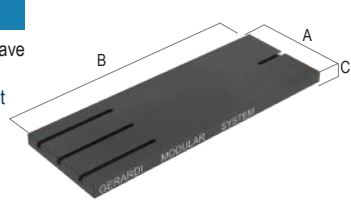
DPG 250



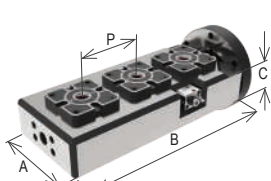
Tipo (grandezza) zero point / Zero point type (size)		2		
Pressione Apertura Zero Point / Zero Point Open pressure	BAR	4 ÷ 7		
Divisore Gerardi DPG250 con piastra zero-point per cambio rapido 	Art. 62K			
	A	400		
	B	600	800	1000
	C	100	100	100
Cod.	9.DP.G25000	9.DP.G25010	9.DP.G25020	
€	35.510	36.226	37.060	

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

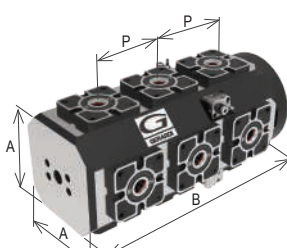
Art. 99A Supporto Support 	Cod.	7.99.A1000	€	717
Art. 99B Perno di centraggio completo di sistema d'allineamento Horizontal centering pin with alignment system 	Cod.	7.99.B1000	€	969
Art. 99H Distanziale per supporto Spacer support 	Cod.	7.99.H1000	€	122
Art. 62K DPG 250 Piastra di interfaccia per cubo Zero Point completa di sistema d'allineamento Connecting plate with alignment system for Zero Point cube 	Cod.	9.62.KDPG250	€	1.494

Art. 99S	Dimensioni B mm Dimension B mm	A	C	Kg	Cod.	€
Art. 99S Piastra base con cave Piani rettificati Base plate with slot Faces ground 	900	400	50	141	7.99.S090S	2.447
	1100	400	50	172	7.99.S110S	2.625
	1300	400	50	-	7.99.S130S	2.863

Disponibili quote "B" a step di 50mm - Available dimension "B" in steps of 50mm

Art. 99R	Dimensioni B mm Dimension B mm	A	C	P	Kg	Cod.	€
Art. 99R Piastra per Zero-Point incassati Zero-Point built-in plate 	600	220	100	200	103	9.99.R60226	7.568
	800	220	100	200	138	9.99.R80226	8.104
	1000	220	100	200	172	9.99.R100226	8.700

 Zero Point INCLUSI
 Zero Point units are INCLUDED

Art. 99Q	Dimensioni B mm Dimension B mm	A	P	Kg	Cod.	€
Art. 99Q Cubo portapezzi per Zero-Point incassati Tombstones with built-in Zero-Point 	600	220	200	227	9.99.Q602212	15.311
	800	220	200	303	9.99.Q802212	16.503
	1000	220	200	378	9.99.Q1002212	17.695

 Zero Point INCLUSI
 Zero Point units are INCLUDED

 Per soluzioni alternative a quelle standard contattare il nostro ufficio tecnico
 For alternative solutions please contact our technical department

DIVISORE MECCANICO DIVIGER 205


MECHANICAL DIVIDING HEAD DIVIGER 205

Divisore automatico
Automatic dividing head

Dati tecnici
Technical Data

DIVIGER 205

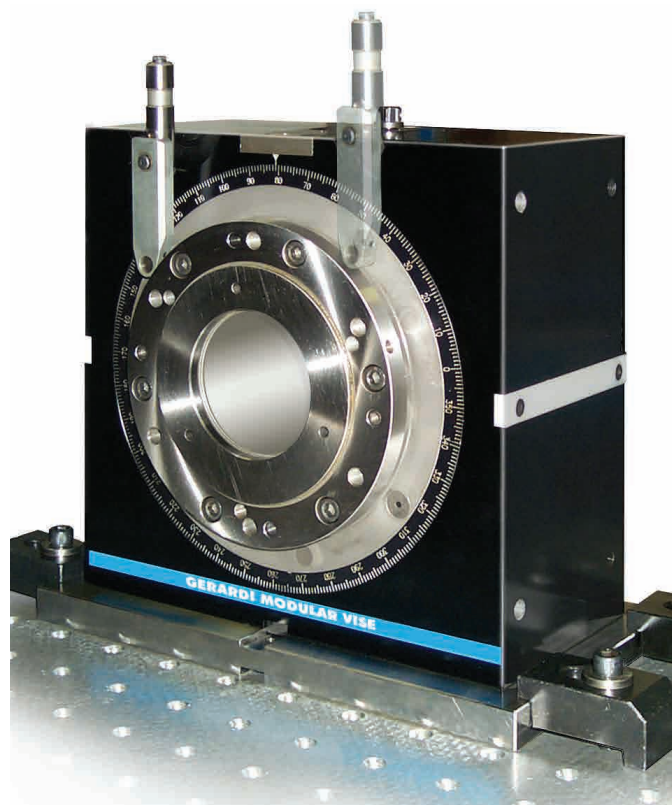


Diametro del divisore Dividing head diameter	220 mm
Diametro del foro passante Clearance hole diameter	85 mm
Altezza centrale Center height	200 mm
Dimensione della scanalatura a T T-Slot width	-
Sistema di bloccaggio Clamping system	Meccanico Mechanical
Minimo incremento Minimum increment	1°
Precisione Indexing accuracy	±10 Sec.
Coppia in lavoro Driving torque	 3000 Nm
Kg	93
Cod.	7.66.73000
€	13.056

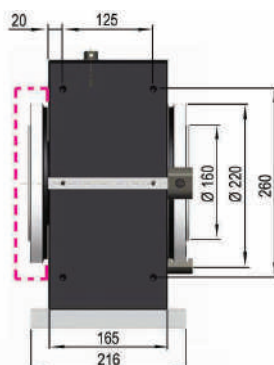
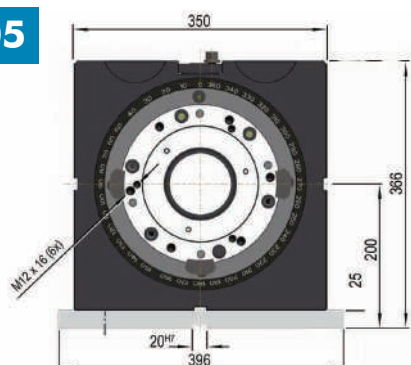
DIVISORE MECCANICO, SENZA CAVI O IDRAULICA, PERMACCHINE A CNC

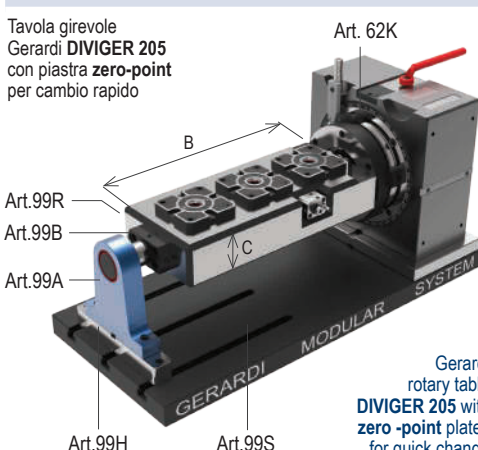
MECHANICAL DIVIDING HEAD, WITHOUT ELECTRICAL CABLES OR HYDRAULIC, FOR CNC MILLING MACHINE

- Maggiore efficienza nella lavorazione su più lati
- Completamente autonomo dalla macchina
- Elevato momento torcente
- Divisione manuale o automatica tramite mandrino macchina
- 360 posizioni
- Serraggio simultaneo di due particolari grazie alla doppia flangia
- lavorazione su 5 facce senza contropunta
- Lavorazione a barra grazie al mandrino cavo
- Utilizzabile orizzontalmente o verticalmente
- Cambio tramite serraggio a cuneo
- Cost-effective on multiple-sides machining
- Machine independent
- High holding torque
- Dividing manually or automatically using the machine spindle
- 360 x 1° division
- Simultaneous clamping of 2 workpieces thanks to the dual flange
- 5 faces machining without counter-holder
- Bar machining due to hollow spindle
- To be used horizontally or vertically
- Quick change through wedge clamping




DIVIGER 205





Tipo (grandezza) zero point / Zero point type (size)		2		
Pressione Apertura Zero Point / Zero Point Open pressure	BAR	4 ÷ 7		
Tavola girevole Gerardi DIVIGER 205 con piastra zero-point per cambio rapido 	Art. 62K			
	A	400		
	B	600	800	1000
	C	100	100	100
Cod.	9.DI.V20500	9.DI.V20510	9.DI.V20520	
€	26.034	26.034	27.583	

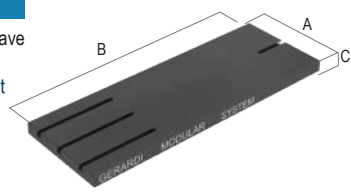
UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art. 99A		Cod.	7.99.A1000
Supporto Support		€	717

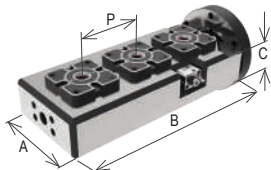
Art. 99B		Cod.	7.99.B1000
Perno di centraggio completo di sistema d'allineamento Horizontal centering pin with alignment system		€	969

Art. 99H		Cod.	7.99.H1000
Distanziale per supporto Spacer support		€	122

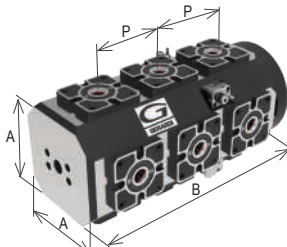
Art. 62K DIVIGER 205		Cod.	9.62.KDIV205
Piastra di interfaccia per cubo Zero Point completa di sistema d'allineamento Connecting plate with alignment system for Zero Point cube		€	1.164

Art. 99S		Dimensioni B mm Dimension B mm	A	C	Kg	Cod.	€
Piastra base con cave Piani rettificati Base plate with slot Faces ground 		900	400	50	141	7.99.S090S	2.447
		1100	400	50	172	7.99.S110S	2.625
		1300	400	50	-	7.99.S130S	2.863

Disponibili quote "B" a step di 50mm - Available dimension "B" in steps of 50mm

Art. 99R		Dimensioni B mm Dimension B mm	A	C	P	Kg	Cod.	€
Piastra per Zero-Point incassati Zero-Point built-in plate 		600	220	100	200	103	9.99.R60226	7.568
		800	220	100	200	138	9.99.R80226	8.104
		1000	220	100	200	172	9.99.R100226	8.700

 Zero Point INCLUSI
 Zero Point units are INCLUDED

Art. 99Q		Dimensioni B mm Dimension B mm	A	P	Kg	Cod.	€
Cubo portapezzi per Zero-Point incassati Tombstones with built-in Zero-Point 		600	220	200	227	9.99.Q602212	15.311
		800	220	200	303	9.99.Q802212	16.503
		1000	220	200	378	9.99.Q1002212	17.695

 Zero Point INCLUSI
 Zero Point units are INCLUDED

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 For alternative solutions please contact our technical department

PRINCIPIO DI FUNZIONAMENTO

FUNCTIONING PRINCIPLES



Libretto Istruzioni / Instruction Book

Scansiona il QR code e scarica le istruzioni complete

Scan the QR code to download the complete instructions

Lo Zero Point è un sistema "normalmente chiuso", utilizza molle da stampi che permettono il bloccaggio del tirante mediante le sfere poste all'interno dello stesso.

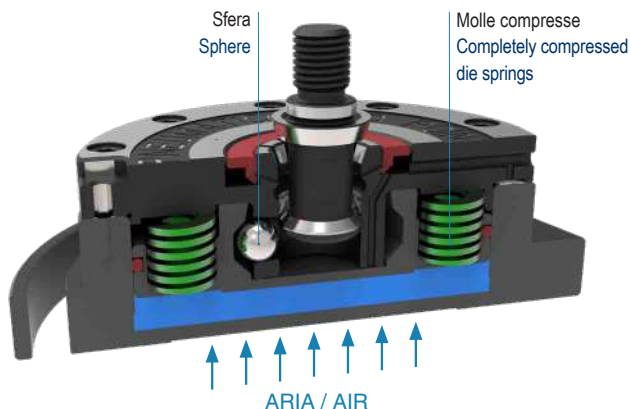
Mediante l'utilizzo di aria compressa, filtrata e lubrificata, il pistone comprimerà le molle permettendo alle sfere di portarsi all'esterno liberando il tirante (Fig. 1). Una volta posizionata la propria attrezzatura sopra allo Zero Point, rimossa l'adduzione dell'aria, le molle entreranno in una fase di lavoro, spingeranno il pistone verso il basso e di conseguenza riporteranno le sfere a contatto sul tirante bloccandolo in modo irreversibile (Fig. 2).

The Zero Point is a "usually closed" system and it is provided with die springs to block the tie rod by means of spheres placed inside.

The piston can compress the springs under compressed, filtered and lubricated air action and the spheres move, releasing the tie rod (Fig. 1). After positioning the tools on the Zero Point and interrupting the air pipeline, the springs will start pressing the piston downward, making the spheres go back in contact with the tie rod, locking it irreversibly (Fig. 2).

ZERO POINT APERTO

OPEN ZERO POINT



ZERO POINT CHIUSO

CLOSED ZERO POINT



MONTAGGIO E SMONTAGGIO

ASSEMBLING AND DISASSEMBLING

Per lo smontaggio di ogni elemento del modulo Zero Point procedere come segue:

- Togliere il tirante (3) dalla sua sede
- Tenere almeno 2 viti (9) e svitarle gradualmente così da evitare la proiezione del corpo (1) precaricato dalle molle (8)
- Estrarre il corpo Zero Point (1) e le molle per stampi (8) - Utilizzare i 2 fori filettati posti sul pistone (2) per estrarlo dalla sua sede.
- Lavare e lubrificare tutti i particolari.

In caso di necessità è possibile smontare tutto il modulo Zero Point dalla sua sede ed è necessario procedere come segue:

- Inserire il tirante (3) dalla sua sede e bloccarlo - Svitare completamente tutte le viti (9)
- Estrarre il modulo completo con l'ausilio del tirante.

Si consiglia di sostituire tutte le guarnizioni mediante gli appositi kit prima di procedere al montaggio del modulo Zero Point. Procedere al montaggio dell'unità o dei singoli articoli in senso inverso, prestando attenzione a non rovinare le guarnizioni.

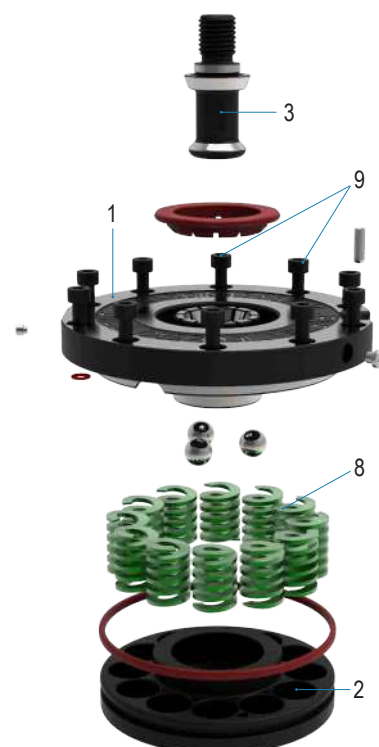
To disassemble each Zero Point module, please comply with following procedure:

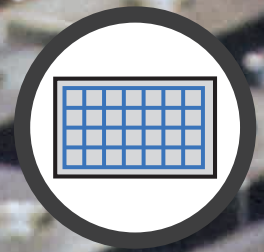
- Remove the tie rod (3) from its position
- Keep at least 2 screws (9), unscrewing them progressively to avoid the piece (1) to be ejected by the springs (8) effect
- Extract the Zero Point body (1) and the die springs (8) - Extract the piston (2) from its position using the 2 threaded holes
- Wash and lubricate all the components

If needed, to take down the whole Zero Point module from its position, the procedure is as follows:

- Insert the tie rod (3) from its position and lock it - Unscrew totally all the screws (9) - Extract the whole module using the tie rod
- Before reassembling the Zero Point module, we suggest to replace all the seals provided with specific kit.

While reassembling the module or the single components, please pay attention not to damage the seals and then check that the positioning tolerances have been restored as they were in the system original conditions.





10

Combined force

MAGNETIC PLATES

Sistema di fissaggio / Fixing System



SIMBOLOGIA DATI TECNICI TECHNICAL DATA ICONS

PIANI MAGNETICI MAGNETIC PLATES



Piano elettro-
permanente
Electro-
permanent
chuck

POSSIBILITÀ POSSIBILITY



Derivazioni e
collegamenti
Shunt and
connections

PAGINE PAGES



Accessori &
Ricambi
Accessories
& Spare
Parts



Istruzioni
corretto
utilizzo
Instruction
for a proper
use

Piani Magnetici - Magnetic plates

MAGNETIC PLATES

Un sistema elettropermanente ideale per per operazioni di fresatura

An electro-permanent system ideal for milling operations

CARATTERISTICHE & VANTAGGI

- ✓ ELEVATO RISPARMIO ENERGETICO
- ✓ MASSIMA SICUREZZA
- ✓ IMMEDIATO CARICO E SCARICO DEL PEZZO
- ✓ BLOCCAGGIO UNIFORME
- ✓ NESSUN INGOMBRO SUL PIANO DI LAVORO
- ✓ FACILE DA USARE
- ✓ ELIMINAZIONE DI VIBRAZIONI DURANTE LA LAVORAZIONE
- ✓ MIGLIORA IL GRADO DI FINITURA
- ✓ RIDUCE IL CONSUMO DEGLI UTENSILI
- ✓ MANUTENZIONE RIDOTTA RISPETTO AI SISTEMI CONVENZIONALI

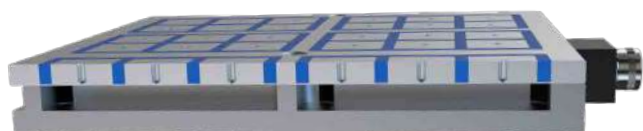
TECHNICAL FEATURES & ADVANTAGES

- ✓ ENERGY SAVING
- ✓ MAXIMUM SAFETY
- ✓ QUICK WORKPIECE SETUP AND REMOVAL
- ✓ UNIFORM CLAMPING
- ✓ TOTALLY FREE WORKING SURFACE
- ✓ EASY TO USE
- ✓ ELIMINATION OF MACHINING VIBRATIONS
- ✓ BETTER FINISHING GRADE
- ✓ REDUCED TOOLS CONSUMPTION
- ✓ LITTLE MAINTENANCE COMPARED TO CONVENTIONAL CLAMPING SYSTEMS

Lunga durata nel tempo Long life of Magnetic Plate

La struttura del piano è realizzata interamente in monoblocco (scavato nel piano) mentre le parti magnetiche e di sbobinatura vengono assemblate sotto un controllo di processo evoluto ed automatizzato. L'operazione di resinatura viene eseguita con procedimento sottovuoto, garantendo così un isolamento ed una vita magnetica al prodotto che non ha pari sul mercato attuale. Il piano magnetico viene fornito con un connettore rapido a tenuta stagna **A** e tappo di chiusura per la fase di lavoro, rondelle di riscontro **B** per la battuta del pezzo, fori nei poli **C** per il montaggio delle espansioni polari fisse e mobili. Per il fissaggio del piano magnetico esistono delle cave laterali con eventuali fori passanti nelle zone non magnetiche, che la GERARDI esegue su richiesta del cliente.

The chuck structure is a whole monoblock (dug from a solid) while the magnetic and reeling parts are assembled under the supervision of an advanced and automated process. The resin treatment operation is done under vacuum to guarantee an insulation and a magnetic life of the product that is unmatched in today's market. A quick waterproof connector **A** is supplied with a closing cap for the working plates, work-stop **B** for the part's ledge, holes in the poles **C** for mounting the fixed or mobile shoes. On request, GERARDI will bore internal later slots with possible through holes to the non-magnetic zones to fix the magnetic chuck.



Una forza combinata

A combined force

La forza combinata è quel valore determinato dalla relazione tra la forza di strappo e la forza di scivolamento del pezzo dal piano magnetico. Per esperienza aggiungiamo che nel calcolare questo valore combinato riteniamo molto più importante la forza di scivolamento rispetto a quella di strappo in quanto la fresatura, causa in primo luogo una azione di translazione del pezzo e successivamente il suo sollevamento. L'esperienza nei test ci permette di ritenere che il valore di scivolamento vale cinque volte più di quello di strappo.

The combined force is the value determined by the relation between tearing force and sliding force of the piece from the magnetic chuck. By experience, we add here that in calculating this value we think the sliding force more important than the tearing force because the milling operation tries sliding the piece before lifting it. Our testing experience allows us to state that sliding value is five times higher than the tearing one.

Passo polare

Pole pitch

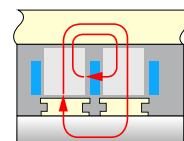
Il vero motivo che deve portare a scegliere un piano magnetico piuttosto che un altro è rappresentato dal passo polare ideale per la lavorazione in questione. Individuare insieme, in un'analisi semplice ma efficace, il piano ideale per eseguire una gamma di lavorazioni richieste, è sicuramente l'approccio vincente per un giusto acquisto.

The true reason why we must come to the choice of one magnetic chuck rather than another is represented by the ideal pole pitch for the machining at hand. The winning approach to the right buy is to determine together and with simple and efficient analysis the ideal chuck for executing a range of required machining operations.

Magnetizzazione

Magnetization

Il magnetismo viene generato sulla superficie di lavoro attraverso il polo quadrato. L'alternanza di poli positivi e negativi vicini genera un campo magnetico che attira e trattiene il pezzo da lavorare.

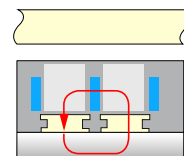


Magnetism of the strong permanent magnet applied to the upper surface of the chuck through the square pole. With the N/S pole alternately arranged, a magnetic field is generated between the adjacent poles and which securely holds workpiece.

Smagnetizzazione

Demagnetization

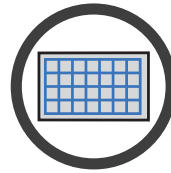
Sotto il polo quadro vi è un magnete a polarità reversibile. Attraverso una scarica elettrica generata dalla bobina intorno al magnete reversibile la polarità viene invertita. Questa operazione permette di far chiudere il campo magnetico tra due poli all'interno del piano magnetico estinguendo la forza magnetica sulla sua superficie permettendo così il rilascio del pezzo.



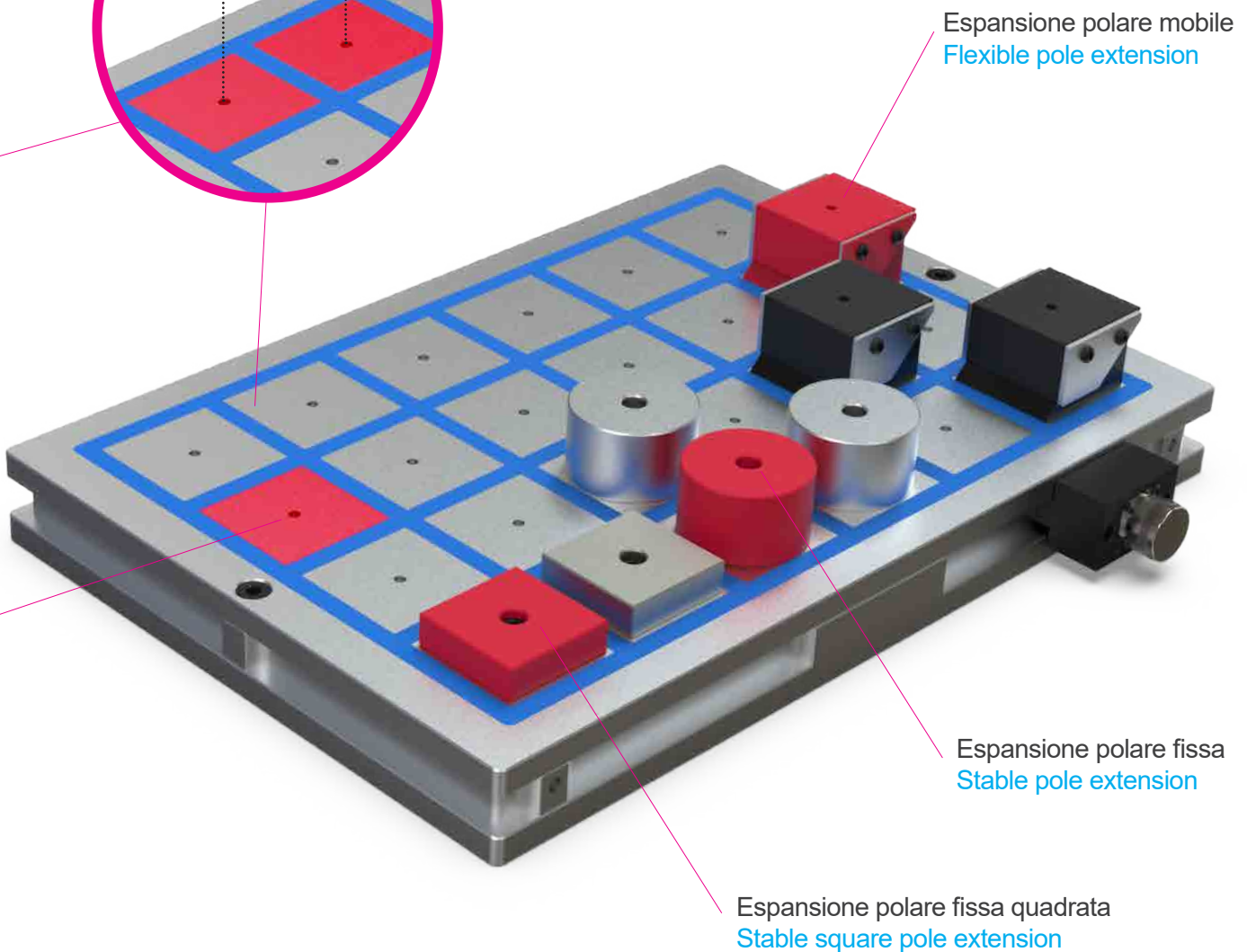
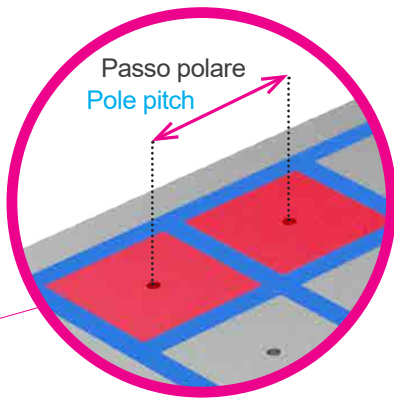
On the bottom of the square pole, a reversible magnet is fixed. Sending electric current through the coil of the magnet, the polarity of the reversible magnet is inverted. This operation converges the magnetism of the permanent magnet to extinguish the magnetic field on the upper surface of the chuck and releases the workpiece.

Molti clienti pensano che la scelta di un piano magnetico sia semplice e quasi esclusivamente legata alla potenza che esso può generare in senso assoluto durante la fase di lavoro. In realtà la nostra esperienza dice che non è così. Spesso succede che il piano magnetico di grande potenza si riveli inadeguato a lavorazioni di basse asportazioni perchè effettuate su pezzi molto piccoli o sottili. Il fatto è che il campo magnetico è performante solo quando il flusso si concentra il più possibile nel particolare da trattenere. Se la potenza magnetica, per ragioni di profondità di campo, supera lo spessore del pezzo, si riduce e può diventare insufficiente ai fini della lavorazione.

Many customers think that choosing a magnetic chuck is simple and almost exclusively tied to the absolute power that it can generate during the working phase. Our experience says that really it is not so. Often a power magnetic chuck is inadequate for machining with little removals because they are made on very tiny and thin pieces. The fact is that the magnetic field performs only when the flux is concentrated on the workpiece to be clamped. If the magnetic power, for reason of field depth, exceeds the thickness of the piece, it will decrease and may become inadequate for machining. filtered and lubricated compressed air enables the release only so there is no need to keep pipes connected constantly to the fixture.



Drastica riduzione degli scarti
High scraps reduction

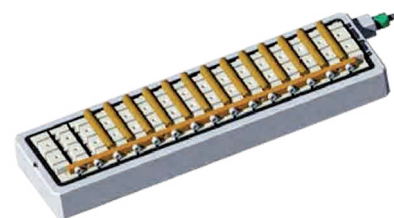
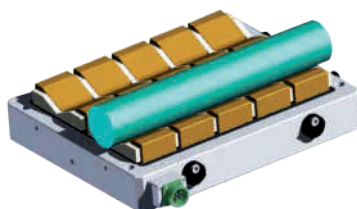
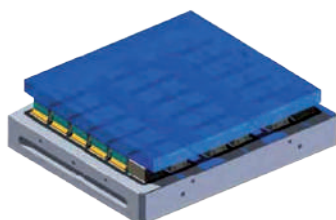


Espansioni polari / Polar chucks

Magnetic plates

Le espansioni polari

Pole shoes



Uno dei motivi che rende il piano magnetico a polo quadro estremamente versatile è la possibilità di applicare ai poli quadri delle ESPANSIONI POLARI in modo semplice ed efficace. Questo accorgimento magnetico permette di trasmettere il flusso magnetico nella zona desiderata o di alzare il pezzo in lavorazione dalla superficie del piano magnetico permettendo rapide operazioni di contornatura, foratura, smussatura etc.. senza rovinare la superficie magnetica del piano. Sia nella versione fissa che in quella mobile, le espansioni polari sono prodotte in acciaio dolce ad alta permeabilità magnetica così da permettere un'ottima trasmissione del flusso magnetico.

One of the reasons that makes the magnetic chuck extremely versatile is the possibility of applying in a simply and effective way POLE SHOES to its poles. This magnetic solution enables the transmission of the magnetic flux to the desired area or the lifting of the work plate from the magnetic chuck surface. The pole shoes are made of high magnetic permeability soft steel for both fixed and mobile versions in order to allow an optimal transmission of magnetic flux.

Le espansioni polari FISSE

FIXED pole shoes

Le espansioni polari fisse, disponibili in diverse dimensioni e dotate di vite, garantiscono che la superficie del modulo magnetico supporti in maniera precisa il pezzo in lavorazione. Questo le rende perfette per la lavorazione di pezzi lisci o prelaborati. Migliorano notevolmente lo spazio di manovra per la macchina, per esempio in caso di lavorazioni di contornatura e forature passanti.

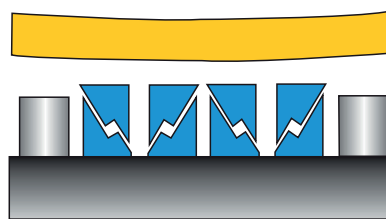
L'espansione è progettata per assicurare che la trasmissione del flusso da piano a superficie di bloccaggio avvenga con minima perdita, permettendo il bloccaggio in sicurezza anche di pezzi complessi.

Fixed pole extensions, available in various sizes and equipped with screws, ensure a precise support of the work-piece on the surface of the magnetic module. This makes it perfect for processing machining smooth or preprocessed machined work-pieces. They significantly improve the operating space for the machine, for example in the case of contouring and through-hole drilling operations. The extension is designed to ensure that the flux transmission from floor the chuck to the clamping surface takes place with minimum loss, to thus ensuring the safe clamping even of more complex work-pieces.

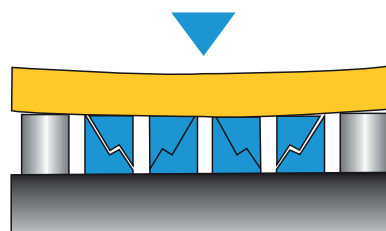
Le espansioni polari MOBILI

MOBILE pole shoes

E' un tipo di espansione che, attraverso lo scorrimento di due cunei e la spinta di molle inserite nel prodotto, consente di adattare l'altezza della superficie di lavoro alla deformazione del pezzo da lavorare. Un esempio pratico rende la comprensione dell' oggetto molto più semplice. Quando ci troviamo a dover spianare una piastra grezza e deformata (imbarcata), la potenza magnetica che esercitiamo per trattenerla tende a raddrizzare la superficie con la conseguenza che, terminato il lavoro e smagnetizzato il piano, la piastra torna ad essere deformata (un effetto elastico di ritorno). Attraverso l' utilizzo delle espansioni mobili e livellanti è possibile adattarsi alla piastra nella sua deformazione, bloccarla durante la prima fase di spianatura e raddrizzatura e, una volta ruotata per la seconda lavorazione, ottenere una finitura di qualità eccellente: in alcuni casi si può eliminare la successiva operazione di finitura con rettifica. Importante è che la piastra appoggi sempre almeno su tre punti fissi opportunamente stabiliti che faranno da costante riferimento di planarità della piastra.



They are the kind of shoes that allow the height adjustment of the working surface to the deformation of workpiece, utilizing the sliding of two wedges and the thrust of springs inserted in the product. A practical example will make a much easier understanding of the product. When we have to surface a rough and deformed (warped) plate, the magnetic force applied to hold the piece tends to straighten the surface with the result that at the end of work and when the chuck is demagnetized, the plate will return to its warped state (a spring back effect). By using mobile and levelling shoes. It is possible to adapt to the plate's deformation, to hold it during the first flattening and straightening phase, to obtain an excellent finishing: thus eliminating, for certain machining, the subsequent finish-grinding processing. The plate must be rested on at least three conveniently chosen fixed points that will be the constant polarity reference of the plate.

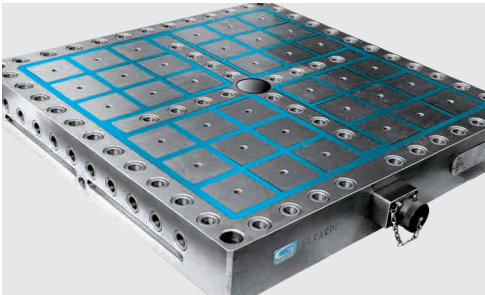


Soluzioni personalizzate / Customized solutions

Magnetic plates

Soluzioni personalizzate a tutti i vostri problemi di serraggio

Customized solutions for all your clamping problems

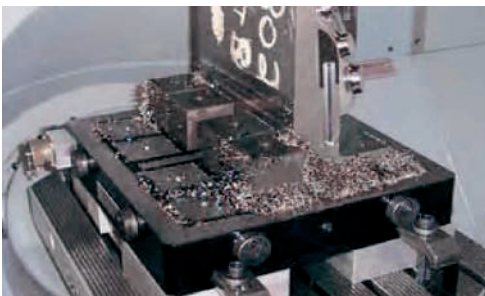


Piano magnetico

Magnetic plates

Piano magnetico realizzato con bussole ed helicoils

Precision Modular vises matchable for gang operations and Pneumohydraulic clamping (StandardMatic series)

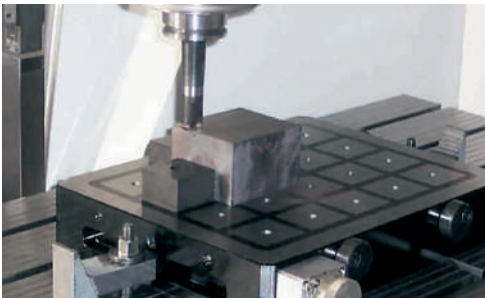


Maggiore Versatilità

More Versatility

L'espansioni polari permettono di rialzare il particolare e garantire maggior efficienza per qualsiasi lavorazione.

Polar extensions allow to raise the workpiece and guarantee more efficiency in all kind of machining



Asportazioni di fresatura

Milling operations

L'unico piano magnetico che non perde forza quando il pezzo viene lavorato a distanza dal piano.

This is the only magnetic chuck that will not lose force when the part is machined at a distance from the magnetic chuck.

PIANO ELETTROPERMANENTE ELECTRO-PERMANENT CHUCK



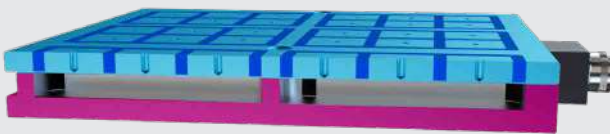
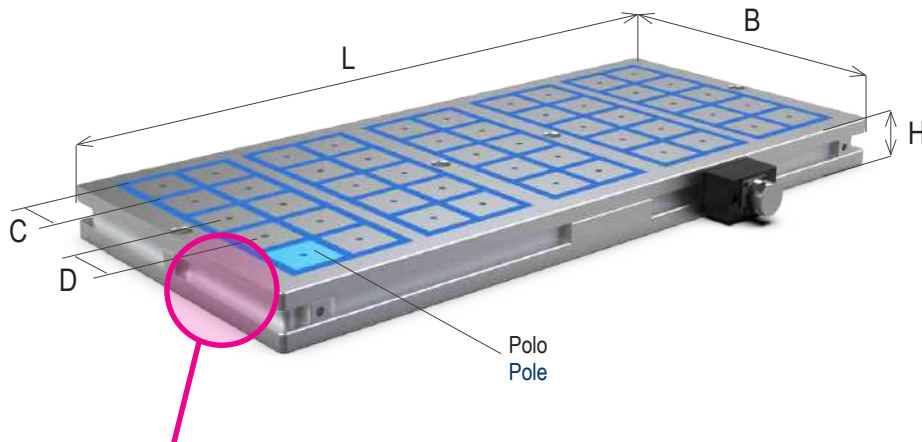
**NEW
2024**

Per asportazioni in fresatura con pezzi di spessore medio-basso

Il piano magnetico più versatile della gamma GERARDI. Produce un ottimo rapporto tra la forza espressa e le condizioni di spessore e dimensioni pezzo particolari. Lavora benissimo anche con espansioni a distanza ed il grip in fase di contornatura è eccezionale.

For milling with medium-low thickness work-pieces

It produces an optimum ratio between the expressed force and the particular thicknesses and size of the piece. It works well even with remote shoes, and the grip during the countouring phase is excellent.



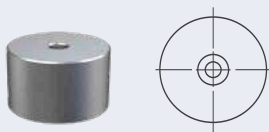
Il piano è suddiviso in due blocchi, in modo che la piastra superiore precluda l'ingresso del truciolo per salvaguardare le parti interne.

The surface is divided into two blocks, so that the upper plate precludes the entry of the chips to safeguard the internal parts.

Da usare con / Use with

Art. 89D*

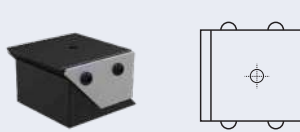
Espansione polare fissa
Stable pole extension



* Per un corretto utilizzo, massimo 3 espansioni polari fisse per pezzo
* For correct use, maximum 3 stable pole extensions per piece

Art. 89E

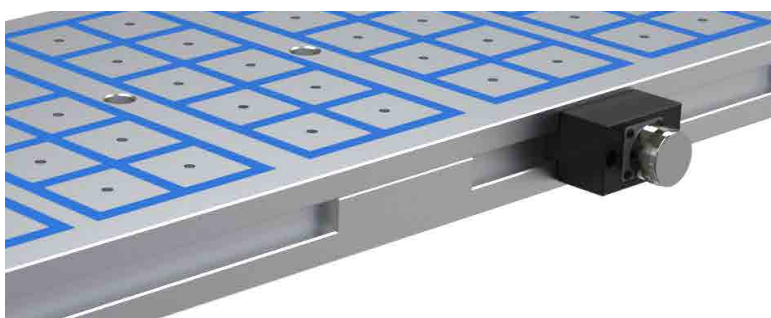
Espansione polare mobile
Flexible pole extension



pag. 8.10

Caratteristiche tecniche Technical features

	Polo 50	Polo 75
Polo magnetico Magnetic chuck	50 x 50 mm	75 x 75 mm
Passo polare Pole pitch	60 mm	80 mm
Foro nel polo Hole in the chuck	M8 x 12 mm utili	
Forza polare verticale Ps Vertical chuck force Ps	400 Kg	900 Kg
Spessore minimo consigliato Minimum suggested thickness	12 mm	14 mm
Area di bloccaggio Clamping area	Minimo 4 poli Minimum 4 poles	
Perdita di forza in lavoro con espansioni fisse Clamping force reduction by using chuck shoes	H= 30 mm 15%	



Art. 89P 50

 Polo 50 - Massima performance a 16mm di altezza
 Pole 50 - Max performance at 16mm height

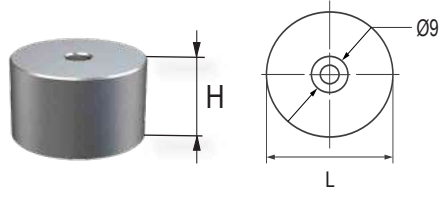
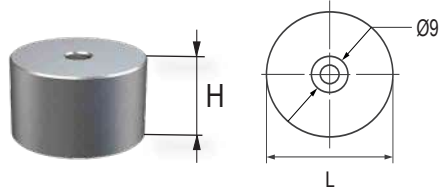
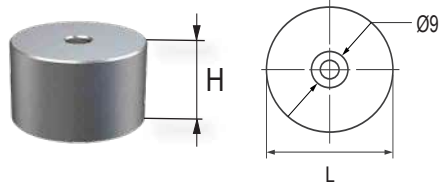
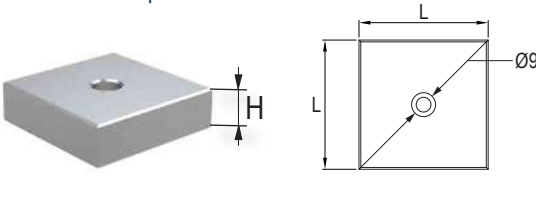
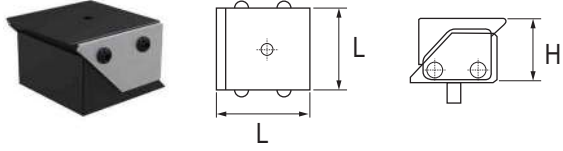
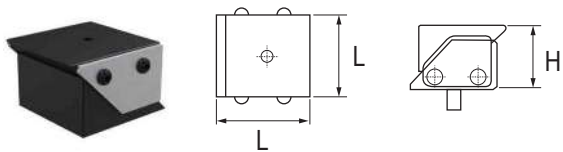
B	C	D	H	L	Kg	Poli Poles	P _{TOT} Kg	Art.89P (50) Per GHISA/ACCIAIO For CAST IRON/STEEL Fe370 or C40	Art.89R (50) Per ACCIAIO LEGATO For ALLOY STEEL as 38NiCrMo5 or 16MnCr5	€
325	50	60	55	370	42	20	8000	89P5323720	89R5323720	2.050
360	50	60	55	360	57	25	10.000	89P5363625	89R5363625	2.550
370	50	60	55	635	90	40	16.000	89P5376340	89R5376340	4.100
360	50	60	55	790	108	50	20.000	89P5367950	89R5367950	5.100
445	50	60	55	790	150	60	24.000	89P5447960	89R5447960	6.200
580	50	60	55	790	170	80	32.000	89P5587980	89R5587980	8.200
580	50	60	55	940	200	96	38.400	89P5589496	89R5589496	9.800

Art. 89P 75

 Polo 75 - Massima performance a 25mm di altezza
 Pole 75 - Max performance at 25mm height

B	C	D	H	L	Kg	Poli Poles	P _{TOT} Kg	Art.89P (75) Per GHISA/ACCIAIO For CAST IRON/STEEL Fe370 or C40	Art.89R (75) Per ACCIAIO LEGATO For ALLOY STEEL as 38NiCrMo5 or 16MnCr5	€
415	75	88	60	601	110	24	21.690	89P7416024	89R7416024	5.200
415	75	88	60	815	150	32	28.800	89P7418132	89R7418132	6.950
415	75	88	60	1.029	188	40	36.000	89P7411040	89R7411040	8.650
503	75	88	60	815	181	40	36.000	89P7508140	89R7508140	8.650
503	75	88	60	1.029	228	50	45.000	89P7501050	89R7501050	10.800
591	75	88	60	601	157	36	32.400	89P7596036	89R7596036	7.800
591	75	88	60	815	212	48	43.200	89P7598148	89R7598148	10.400
591	75	88	60	1.029	267	60	54.000	89P7591060	89R7591060	13.000

ACCESSORI / ACCESSORIES

Articolo / Article		L	H	Kg	Cod.	€
Art. 89D Espansione polare fissa Pole extension stable	Polo 50 	Ø 50	30	0,5	89D530T000	15
		Ø 50	15	0,5	89D515T000	15
	Polo 75 	Ø 75	45	1,6	89D745T000	30
Quadrata / Square 		70	20	0,7	89D720Q000	30
Art. 89E Espansione polare mobile Pole extension flexible		50	28 - 34	0,5	89E5000000	50
		70	43 - 53	1,75	89E7000000	75




UNITÀ DI CONTROLLO / CONTROLLER

Articolo / Article	Kg	Cod.	€
Art. 89U 50 Fino a 99 poli da 50, 49 poli da 75 Up to 99 poles dim.50, 49 poles dim.75 Unità di controllo piano elettropermanente comprensivo di attacco a baionetta angolare e cavo lungh. 3m - 360-480V 50/60 Hz Electropermanent chuck control unit - 360-480V 50/60 Hz	5	89U5000000	1.300
Art. 89U 100 Unità di controllo piano elettropermanente comprensivo di attacco a baionetta angolare e cavo lungh. 3m - 360-480V 50/60 Hz Electropermanent chuck control unit - 360-480V 50/60 Hz	6,6	89U1000000	1.600
Art. 89U 100-4 Unità di controllo multicanale fino a 4 piani elettropermanenti - 360-480V 50/60 Hz Multi channel control unit up to 4 electropermanent chuck - 360-480V 50/60 Hz	14	89U1400000	3.600
Art. 89U 100-6 Unità di controllo multicanale fino a 6 piani elettropermanenti - 360-480V 50/60 Hz Multi channel control unit up to 6 electropermanent chuck - 360-480V 50/60 Hz	13	89U1600000	4.800
Art. 89F Cavo lungh.3m con attacco a baionetta angolare 5 PIN Angular bajonett 5 PIN plug with 3m long cables	0,16	89F0000000	600
Art. 89J 4 Junctionbox - 4 Junction box per unità multicanale fino a 4 piani elettropermanenti comprensivo di cavo 3m con attacco a baionetta Junction box to be used with multi channel control unit for 4 electropermanent chuck with bajonett plug with 3m long cables	17	89J4000000	2.300
Art. 89J 6 Junctionbox - 6 Junction box per unità multicanale fino a 6 piani elettropermanenti comprensivo di cavo 3m con attacco a baionetta Junction box to be used with multi channel control unit for 6 electropermanent chuck with with bajonett plug with 3m long cables	17	89J6000000	2.800

UNITÀ DI CONTROLLO / MICROPROCESSOR CONTROLLER

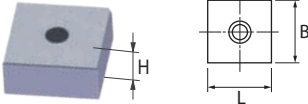
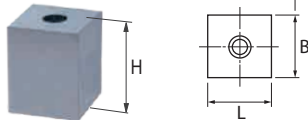
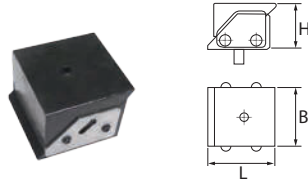
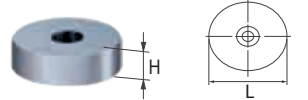
È fornita nella versione semplice e prevede una pulsantiera per la magnetizzazione e smagnetizzazione del piano magnetico montata direttamente sull'unità. Il fissaggio dell'unità è facilitato dalla gomma magnetica applicata su un lato del box esterno

Comes in the basic version and includes a push-button panel directly insteltd on the unit for magnetizing and demagnetizing the magnetic chuck. The mounting of the unit is made easy by the magnetic rubber applied on one side of the external box.

Immagine - Image		Cod.	€
	Art. 89A* UNITÀ MONOCANALE SINGLE CHANNEL UNIT Unità di controllo 1 canale con 1 cavo 4 PIN e pulsantiera Control unit 1 channel with 1 cable 4 PIN and remote È la singola unità che viene normalmente venduta in dotazione ad un piano magnetico standard a poli quadri. This is a single unit that is normally sold with a standard square pole magnetic chuck	8.89.A00001	1.856
	Art. 89B* UNITÀ BICANALE DOUBLE CHANNEL UNIT Unità di controllo 2 canali con 2 cavi 4 PIN, selettore e pulsantiera Control unit 2 channels with 2 cables 4 PIN, selection and remote	8.89.B00002	2.353
	Art. 89C* UNITÀ DI CONTROLLO MULTICANALE MULTI CHANNEL UNIT Unità di controllo 4 canali con 4 cavi 4 PIN, selettore e pulsantiera Control unit 4 channels with 4 cables 4 PIN, selection and remote Quando acquistando più piani magnetici sulla stessa macchina, si desidera pilotarli nei modi più liberi (anche per il singolo piano qualora si voglia pilotarlo come più piani contemporaneamente). Having several magnetic chucks for the same machine, you can control them independently (also for a single large chuck to be controlled as several different chucks)	8.89.C00004	3.313

* Ciscuna Unità di controllo presenta le abilitazioni di consenso macchina (Il centro di lavoro non inizia il ciclo produttivo se il piano non è magnetizzato).
 Each Microprocessor controller is provided with enabling consent for the machining center (machining cycle doesn't start if the magnetic plate isn't magnetized)

ESPANSIONI POLARI - MISURA 32 / CHUCK SHOES - SIZE 32

Tipo (grandezza) / type (size)	L	B	H	Cod.	€
Art. 88A Tipo 1 - Type 1 Lavorabile Machineable 	30	30	15	8.88.A1000	18
Art. 88B Tipo 1 - Type 1 Lavorabile Machineable 	30	30	23	8.88.B1000	19
Art. 88C Tipo 1 - Type 1 	29	31,5	23	8.88.C1000	62
Art. 88D Tipo 1 - Type 1 Lavorabile Machineable 	Ø 55	-	10	8.88.D1000	16

ESPANSIONI POLARI - MISURA 50 / CHUCK SHOES - SIZE 50

Tipo (grandezza) / type (size)	L	B	H	Cod.	€		
Art. 88A Tipo 2 - Type 2 Lavorabile Machineable			45	45	20	8.88.A2001	19
Art. 88C Tipo 2 - Type 2			47	45	32	8.88.C2001	62
Art. 88D Tipo 2 - Type 2 Lavorabile Machineable			Ø 55	-	15	8.88.D2000	18
Art. 88A Tipo 2 - Type 2 Lavorabile Machineable			50	50	32	8.88.A2002	21
Art. 88B Tipo 2 - Type 2 Lavorabile Machineable			45	45	54	8.88.B2002	24
Art. 88C Tipo 2 - Type 2			47	45	54	8.88.C2002	77

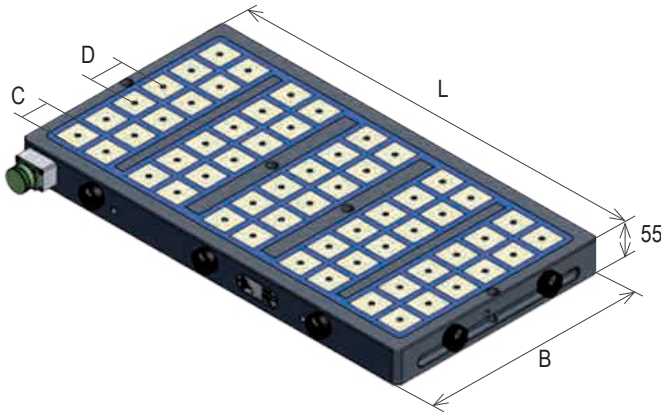
ESPANSIONI POLARI - MISURA 70 / CHUCK SHOES - SIZE 70

Tipo (grandezza) / type (size)	L	B	H	Cod.	€		
Art. 88A Tipo 3 - Type 3 Lavorabile Machineable			70	70	30	8.88.A3001	28
Art. 88C Tipo 3 - Type 3			70	70	47	8.88.C3001	80
Art. 88D Tipo 3 - Type 3 Lavorabile Machineable			Ø80	-	15	8.88.D3000	24
Art. 88A Tipo 3 - Type 3 Lavorabile Machineable			70	70	47	8.88.A3002	37
Art. 88B Tipo 3 - Type 3 Lavorabile Machineable			70	70	70	8.88.B3002	52
Art. 88C Tipo 3 - Type 3			70	70	70	8.88.C3002	106

PIANO ELETTROPERMANENTE ELECTRO-PERMANENT CHUCK

Art. 88

Tipo 1 - Type 1

Massima performance a 8mm di altezza
Max performance at 8mm height


Piano elettropermanente per asportazioni in fresatura con pezzi di basso spessore

Un piano magnetico particolarmente consigliato per lavorazioni di fresatura non pesanti che si effettuano su pezzi di piccole dimensioni o basso spessore. Il grip elevato nei primi millimetri del pezzo rappresentano la grande novità del prodotto unica sul nostro mercato.

Electro-permanent chuck for milling with low thickness work-pieces

This is a magnetic chuck especially recommended for non-heavy milling operations done on small or low thickness parts.

The high grip on the first millimetres of the part represent the big novelty of the product that is unique in our market.

B	C	D	L	Poli Poles	Forza di serraggio Clamping force (kN)	Kg	Cod.	€
150	32	37	315	24	26	20	8.88.11530	2.524
315	32	37	315	49	54	40	8.88.13030	3.863
200	32	37	430	40	44	35	8.88.12040	3.325
430	32	37	430	100	110	70	8.88.14040	5.780
315	32	37	600	98	108	73	8.88.13060	5.913
430	32	37	600	140	154	98	8.88.14060	8.276

Caratteristiche tecniche Technical features

- Polo magnetico / Magnetic chuck
32 x 32 mm

- Passo polare / Pole pitch
37 mm

- Foro nel polo / Hole in the chuck
M6 x 12 mm utili

- Forza in Gauss / Gauss force
5000 gap 1.5 mm

- Forza polare verticale
- Vertical chuck force
daN 120

- Forza polare in strisciamento
- Sliding chuck force
daN 20

- Spessore minimo consigliato
- Minimum suggested thickness
4 mm

- Spessore massima prestazione
- Maximum performance thickness
8 mm

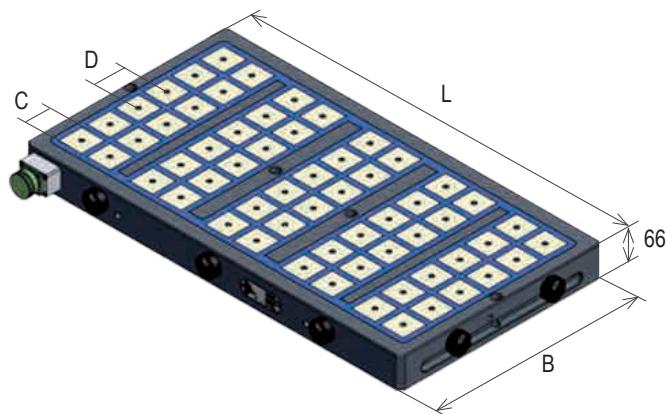
- Dimensione pezzo minimo
- Min piece size
16 cm²
(4 cm x 4 cm)

- Perdita di forza in lavoro con espansioni fisse
- Clamping force reduction by using chuck shoes
H= 20mm
25%

PIANO ELETTROPERMANENTE ELECTRO-PERMANENT CHUCK

Art. 88

Tipo 2 - Type 2

Massima performance a 40mm di altezza
Max performance at 40mm height


Piano elettropermanente per asportazioni in fresatura con pezzi di spessore medio- basso

Il piano magnetico più versatile della gemma GERARDI. Produce un ottimo rapporto tra la forza espressa e le condizioni di spessore e dimensioni pezzo particolari. Lavora benissimo anche con espansioni a distanza ed il grip in fase di contornatura sotto alcuni punti di vista è addirittura eccezionale.

Electro-permanent chuck for milling with medium-low thickness work-pieces

It produces an optimum ratio between the expressed force and the particular thicknesses and size of the piece. It works well even with remote shoes, and the grip during the countouring phase is excellent.

B	C	D	L	Poli Poles	Forza di serraggio Clamping force (kN)	Kg	Cod.	€
315	50	60	315	16	63	50	8.88.23030	2.380
315	50	60	430	24	94	65	8.88.23040	3.181
315	50	60	500	24	94	75	8.88.23050	3.496
315	50	60	600	32	126	95	8.88.23060	4.297
430	50	60	430	36	141	85	8.88.24040	4.651
430	50	60	600	48	188	120	8.88.24060	6.201
430	50	60	800	60	236	160	8.88.24080	7.792
430	50	60	1000	72	295	200	8.88.24010	9.287
500	50	60	500	42	165	115	8.88.25050	5.478
500	50	60	600	56	220	145	8.88.25060	7.304
500	50	60	800	70	275	180	8.88.25080	9.063
500	50	60	1000	84	330	230	8.88.25010	10.851
600	50	60	600	64	251	165	8.88.26060	8.262
600	50	60	800	80	314	220	8.88.26080	10.324
600	50	60	1000	96	377	270	8.88.26010	12.399

Caratteristiche tecniche Technical features

- Polo magnetico / Magnetic chuck
50 x 50 mm

- Passo polare / Pole pitch
60 mm

- Foro nel polo / Hole in the chuck
M8 x 12 mm utili

- Forza in Gauss / Gauss force
6800 gap 1.5 mm

- Forza polare verticale
- Vertical chuck force
daN 400

- Forza polare in strisciamento
- Sliding chuck force
daN 80

- Spessore minimo consigliato
- Minimum suggested thickness
8 mm

- Spessore massima prestazione
- Maximum performance thickness
40 mm

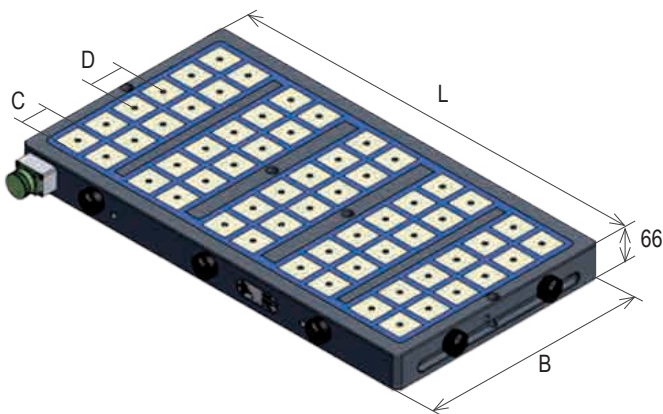
- Dimensione pezzo minimo
- Min piece size
100 cm²
(10 cm x 10 cm)

- Perdita di forza in lavoro con espansioni fisse
- Clamping force reduction by using chuck shoes
H= 30 mm
25%

PIANO ELETTROPERMANENTE ELECTRO-PERMANENT CHUCK

Art. 88

Tipo 3 - Type 3

Massima performance a 40mm di altezza
Max performance at 40mm height


B	C	D	L	Poli Poles	Forza di serraggio Clamping force (kN)	Kg	Cod.	€
315	70	80	600	18	139	86	8.88.33060	4.297
315	70	80	800	24	185	120	8.88.33080	5.714
430	70	80	430	16	123	85	8.88.34040	3.826
430	70	80	600	24	185	120	8.88.34060	5.558
430	70	80	800	32	246	160	8.88.34080	7.304
430	70	80	1000	40	308	200	8.88.34010	9.103
500	70	80	500	25	193	115	8.88.35050	5.714
500	70	80	800	40	308	180	8.88.35080	9.063
500	70	80	1000	50	385	230	8.88.35010	11.440
600	70	80	600	36	277	165	8.88.36060	8.262
600	70	80	800	48	370	220	8.88.36080	10.968
600	70	80	1000	60	462	275	8.88.36010	13.660
600	70	80	1200	72	554	330	8.88.36012	16.364

Per asportazioni in fresatura con pezzi di spessore medio-alto

Il piano magnetico più utilizzato. La grande forza magnetica che esercita soprattutto nella fase di lavoro con appoggio del pezzo direttamente sul piano magnetico, ci permette di affermare che ogni potenza della macchina in uso riesce ad esprimersi al massimo senza alcun problema di spostamento del pezzo.

For milling with medium-high thickness work-pieces

This is the most used magnetic chuck. The great magnetic force exercised during the working phase laying the part directly on the magnetic chuck allows us the state that every machine power being used is expressing its maximum without any problem of moving the part.

Caratteristiche tecniche Technical features

- Polo magnetico / Magnetic chuck
70 x 70 mm

- Passo polare / Pole pitch
80 mm

- Foro nel polo / Hole in the chuck
M10 x 12 mm utili

- Forza in Gauss / Gauss force
7500 gap 1.5 mm

- Forza polare verticale
- Vertical chuck force
daN 785

- Forza polare in strisciamento
- Sliding chuck force
daN 180

- Spessore minimo consigliato
- Minimum suggested thickness
20 mm

- Spessore massima prestazione
- Maximum performance thickness
40 mm

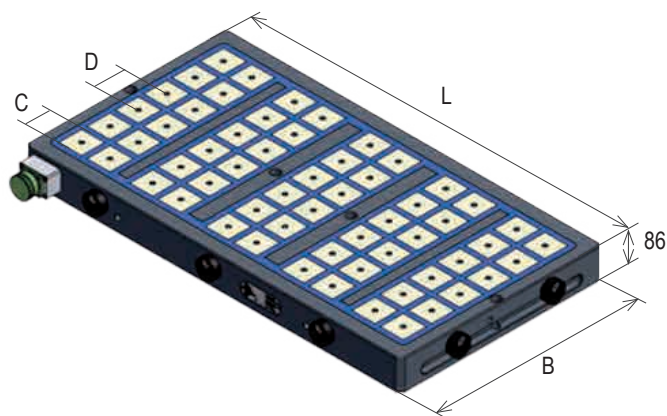
- Dimensione pezzo minimo
- Min piece size
200 cm²
(14 cm x 14 cm)

- Perdita di forza in lavoro con espansioni fisse
- Clamping force reduction by using chuck shoes
H= 30 mm
15%

PIANO ELETTROPERMANENTE ELECTRO-PERMANENT CHUCK

Art. 88

Tipo 4 - Type 4

Massima performance a 40mm di altezza
Max performance at 40mm height


Per grandi asportazioni in fresatura con utilizzo di espansioni polari

Il piano magnetico più potente sul mercato. Una grande forza magnetica che si sfrutta in modo particolare quando le lavorazioni vengono eseguite con espansioni polari a distanza. L'unico piano magnetico che non perde forza quando il pezzo viene lavorato a distanza dal piano.

For milling with thick parts using pole shoes

This is the most powerful magnetic chuck in the market. A great magnetic force that is most useful particularly when machining operations are done with remote chuck shoes. This is the only magnetic chuck that will not lose force when the part is machined at a distance from the magnetic chuck.

Caratteristiche tecniche Technical features

B	C	D	L	Poli Poles	Forza di serraggio Clamping force (kN)	Kg	Cod.	€
315	70	80	600	18	139	115	8.88.43060	5.556
315	70	80	800	24	185	150	8.88.43080	7.474
430	70	80	430	16	123	110	8.88.44040	4.927
430	70	80	600	24	185	155	8.88.44060	7.304
430	70	80	800	32	246	207	8.88.44080	9.772
430	70	80	1000	40	308	260	8.88.44010	11.525
500	70	80	500	25	193	147	8.88.45050	8.402
500	70	80	800	40	308	240	8.88.45080	11.912
500	70	80	1000	50	385	305	8.88.45010*	14.894
600	70	80	600	36	277	216	8.88.46060	10.718
600	70	80	800	48	370	290	8.88.46080*	14.289

- Polo magnetico / Magnetic chuck
70 x 70 mm

- Passo polare / Pole pitch
80 mm

- Foro nel polo / Hole in the chuck
M10 x 12 mm utili

- Forza in Gauss / Gauss force
10500 gap 1.5 mm

- Forza polare verticale
- Vertical chuck force
daN 785

- Forza polare in strisciamento
- Sliding chuck force
daN 200

- Spessore minimo consigliato
- Minimum suggested thickness
20 mm

- Spessore massima prestazione
- Maximum performance thickness
65 mm

- Dimensione pezzo minimo
- Min piece size
200 cm²
(14 cm x 14 cm)

- Perdita di forza in lavoro con espansioni fisse
- Clamping force reduction by using chuck shoes
H= 30 mm
5%

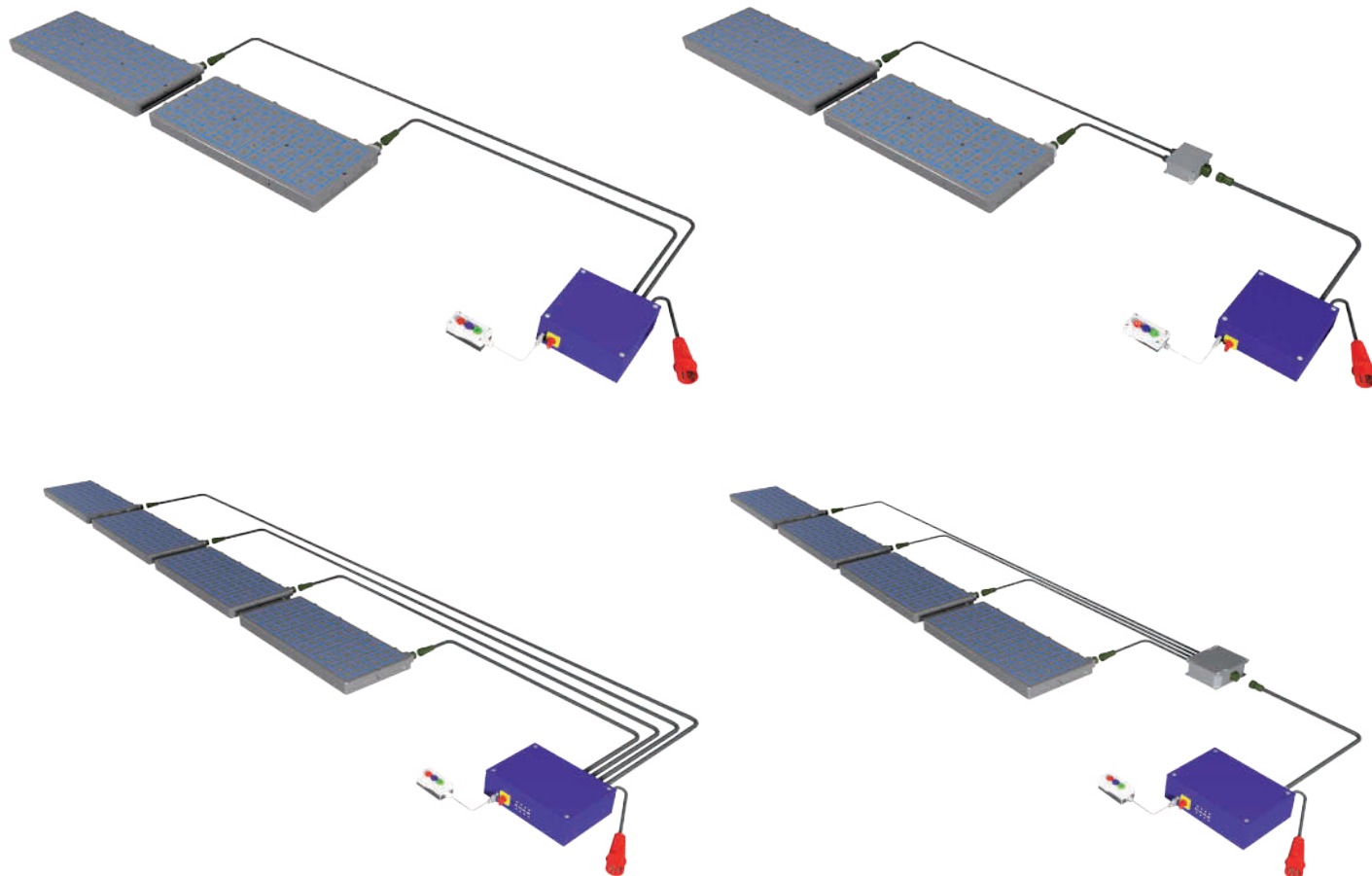
* Necessario 1 cavo 7 PIN in dotazione con unità di controllo - 7 PIN cable needed and provided with the microprocessor controller

DERIVAZIONI E COLLEGAMENTI

SHUNT AND CONNECTIONS

Lavorare con più piani magnetici può richiedere spesso volte il sezionamento dei cavi per poter operare in modo semplice e rapido. Gerardi è in grado di progettare, in collaborazione con il cliente il sistema più pratico ed economico per collegare tutti i piani magnetici una volta fissati alla tavola della macchina.

Working with more chucks may require sectioning of the cables for a simple and fast operation. Gerardi can design with the client the most practical and economical system to connect all magnetic chucks, once they are fixed into the machine table.



Prestazioni di taglio (esempio di riferimento)

Cutting condition (example for reference)

- Voltaggio del t x 30H • Utensile: Diam. 100 a 6 taglienti • Rotazione: 700 min - 1 • Operazione: fresatura • Larghezza taglio: 80 mm • Profondità taglio: 4 mm
- Avanzamento: 500 mm/min • Espansioni: non usate

- Voltage test: 400 Volt • Upper face machining by front Mill • Magnetic chuck: Art 88 type 3 • Sample to machine: 120 mm x 240 mm x 30t • Cutter: Front mill, Ø 100, 6 edges, dry • Spindle rotation: 700 min - 1 • Suction area: machining area • Cut in width: 80 mm • Cut in depth: 4.0 mm/min • Feed rate: 500 mm • Extension: Not used

Fresatura laterale

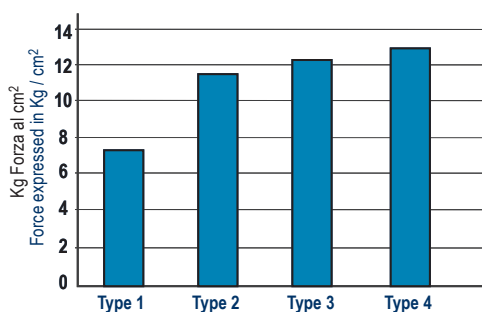
Side machining by end mill

- Piano magnetico: Art 88 tipo 3 • Pezzo da lavorare: 120 mm x 240 mm x 30H • Utensile: Diam. 100 a 6 taglienti • Rotazione: 550 min - 1 • Operazione: fresatura • Larghezza taglio: 20 mm • Profondità taglio: 10 mm • Avanzamento: 88 mm • Espansioni: non usate

- Magnetic chuck: Art 88 type 3 • Sample to machine: 120 mm x 240 mm x 30t • Cutter: Front mill, Ø 100, 6 edges, dry • Spindle rotation: 550 min - 1 • Suction area: machining area • Cut in width: 20 mm • Cut in depth: 10.0 mm • Feed rate: 88 mm • Extension: Not used

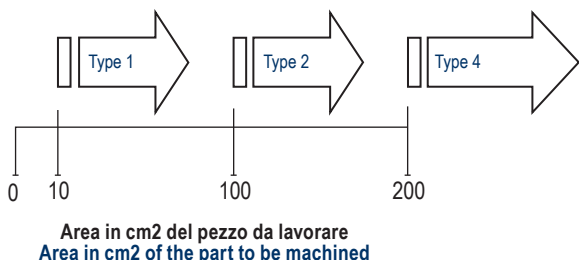
Forza magnetica polare a CM²

Magnetic pole force per CM²



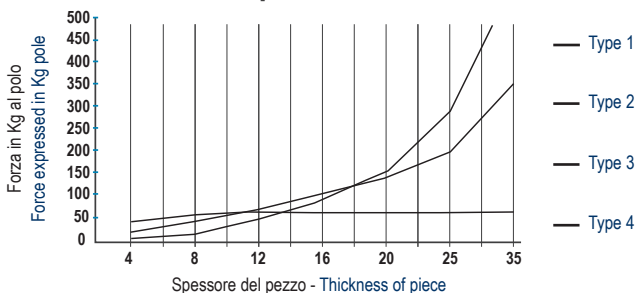
La forza polare è uno strumento importante per valutare la forza di un piano magnetico. Essa è calcolata su un cm² di polo. Permette di calcolare facilmente quale forza di strappo si ottiene in seguito alla copertura della superficie polare. La superficie minima di contatto è molto importante quando si lavorano prevalentemente pezzi di piccole dimensioni. Infatti, un piano magnetico poco potente e quindi con passo polare minore in fase normale diventa performante a fronte di un pezzo da lavorare molto piccolo.

The pole force is an important instrument for evaluating the force of a magnetic chuck. It is calculated over a cm² of pole. It enables to simply measure which tearing force is obtained once the polar surface is covered. The minimum contact surface is very important when machining mainly small parts. A weak magnetic chuck during a normal phase becomes effective when it has to machine a very small part.



Forza in base allo spessore del pezzo da lavorare

A force on the part to be machined

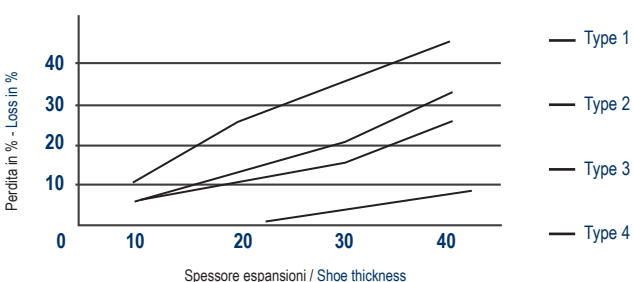


E la condizione più importante che vincola diverse volte la scelta di acquisto di un piano magnetico. Lo spessore di lavoro prevalente permette di capire in che percentuale viene sfruttata la forza magnetica in tutti i pezzi che andrò a lavorare. Si evidenziano le performance del piano Tipo 2 che si dimostra il più versatile in assoluto nella relazione spessore pezzo e forza lavoro.

This is the most important condition to be met in any magnetic chuck choice. The working thickness in prevalence allows us to understand at what percentage the magnetic force is utilized in all the parts that were machined. Illustration of the performance of Type 2 chuck, which proves to be the most versatile in the relation thickness of the part and working force.

Percentuale di perdita con utilizzo di espansioni polari

Percentage of loss when using shoes

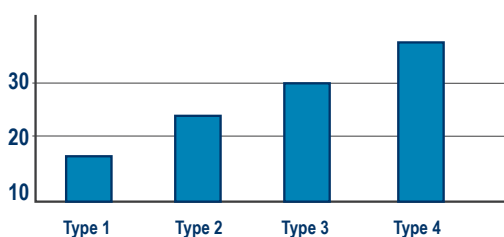


Questo grafico evidenzia come il piano magnetico tipo 4, normalmente sottovalutato dal mercato per una questione di prezzo, sia in realtà un prodotto estremamente utile. Mantenere la forza nel lavoro a distanza è fondamentale per chi, per praticità operativa, si attrezza a lavorare costantemente su espansioni polari lontano dal piano magnetico.

This graphic shows how the type 4 magnetic chuck, normally underestimated by the market because of its cost, in reality is a very useful product. Maintaining the force in remote machining is very important for those who, for practical operations, set to work constantly on pole shoes away from the magnetic chuck.

La forza combinata

The combined force



La forza combinata rappresenta in fresatura il miglior metodo di scelta riguardo alla potenza di un piano magnetico. A condizioni ottimali di lavoro per tutti i piani magnetici, la combinazione della forza di strappo e della forza di scivolamento dimostra la classifica di bontà di prestazione dei nostri modelli. Questo grafico rappresenta la massima prestazione presente oggi sul mercato magnetico.

In milling operations, the combined force represents the best choice with regards to the power of a magnetic chuck. Under optimum working conditions for all magnetic chucks, the combination of tearing force with sliding force shows the classification of the performance goodness of our models. This graphic shows the highest performance existing on the market today.

CORRETTO UTILIZZO DEL PRODOTTO

PROPER USAGE OF THE PRODUCT



Libretto Istruzioni / Instruction Book

Scansiona il QR code e scarica le istruzioni complete

Scan the QR code to download the complete instructions

L'uso previsto dei piani magnetici elettropermanenti è quello di bloccare, sfruttando la forza magnetica, qualsiasi pezzo di materiale ferromagnetico in lavorazione su macchine utensili, centri di lavoro, rettifiche ecc.

Questa serie di piani, garantendo una forza magnetica di tenuta particolarmente elevata, permette d'effettuare lavorazioni di fresatura e rettifica a grande velocità consentendo di sfruttare tutte le potenzialità delle macchine utensili. La facilità d'ancoraggio e rilascio del pezzo in lavorazione consentono, inoltre, di aumentare notevolmente la produttività delle macchine evitando staffaggi e cambi d'attrezzatura.

La caratteristica elettropermanente del piano magnetico permette anche di operare in completa sicurezza in caso di mancata alimentazione elettrica.

Il sistema, infatti, necessita di corrente solo al momento della magnetizzazione e smagnetizzazione del piano, quindi, se durante la fase di lavoro ci fosse una mancanza di alimentazione, la macchina utensile si arresterebbe, mentre il piano magnetico resterebbe magnetizzato.

The intended use of the electro-permanent magnetic chucks is to lock any piece of ferromagnetic material being worked on by machine tools, machining centres, grinding machines, etc. using magnetic force. This series of chucks, assuring a very strong magnetic hold power, allows high speed milling and grinding operations, thus enabling the machine tools to be used to their full potential. Moreover, the ease of use to clamp and release a workpiece increases the machine productivity significantly, since no clampings nor equipment changes will be necessary. The electro-permanent nature of the magnetic chuck also enables operation in complete safety in case of loss of power. The system only requires electric power when magnetization and demagnetization of the chuck are performed. So, in the event of power loss during operation, the machine tool will stop, while the magnetic chuck will stay magnetized.



MATERIALI IDONEI ALL'UTILIZZO

SUITABLE MATERIALS TO BE USED WITH

I piani magnetici elettropermanenti sono in grado di bloccare tutti i materiali ferromagnetici.

Sono, invece, esclusi i seguenti materiali:

- Alluminio e sue leghe - Bronzo - Ottone - Ghisa amagnetica
- Alcuni acciai INOX (tipi austenitici anche se leggermente magnetizzabili a seguito di incrudimento per deformazione plastica)

Anche all'interno dei materiali ferromagnetici, il maggiore o minore bloccaggio del pezzo sul piano dipende comunque dalla riluttanza del particolare da ancorare.

Il valore della riluttanza risulta funzione della composizione chimica del materiale. Tale composizione può provocare notevoli riduzioni (fino al 20 ÷ 30%) del valore massimo della forza di attrazione che si raggiunge per l'acciaio dolce.

Electro-permanent magnetic chucks are able magnetize all ferromagnetic materials.

The following materials, on the contrary, are excluded:

- Aluminium and its alloys - Bronze - Brass - Non-magnetic cast iron
- Some types of STAINLESS steel (austenitic type even if slightly magnetizable after plastic deformation hardening)

Even among ferromagnetic materials, the magnetizing degree of the workpiece depends on the reluctance of the workpiece itself.

The value of reluctance depends on the chemical composition of the material. This composition may cause relevant reductions (up to 20 ÷ 30%) of the maximum value of the attraction force that can be reached with the mild steel.

Materiale - Material	Efficienza - Efficiency
Acciaio tradizionale (Fe 360 - C40) - Standard steel (Fe 360 - C40)	100%
Acciaio grezzo ferromagnetico - Raw ferromagnetic steel	90%
Acciaio inox magnetico - Magnetic stainless steel	80%
Ghisa - Cast Iron	70%

Trattamenti termici effettuati sul pezzo da magnetizzare.

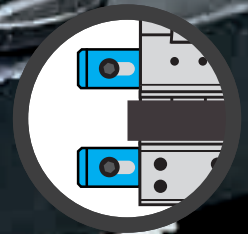
Alcuni trattamenti termici riducono la proprietà di attrazione magnetica. Pertanto si deve porre particolare attenzione a quei materiali che hanno subito uno dei seguenti trattamenti:

- Tempra in tutte le possibili varianti - Bonifica - Cementazione - Nitrurazione

Heat treatments performed on the workpiece to be magnetized.

Some heat treatments reduce magnetic attraction properties. Special attention should therefore be given to materials which have undergone one of the following treatments:

- Hardening in all possible variants - Quenching and tempering - Case-hardening - Nitriding



11

*To hold workpiece or fixtures
perfectly clamp for cnc machining*

Elementi modulari di staffaggio
Modular clamping elements



SIMBOLOGIA DATI TECNICI TECHNICAL DATA ICONS

**ELEMENTI
MODUOLARI
DI STAFFAGGIO**
MODULAR
CLAMPING
TOOLS



Montaggio
multiplo
Multiple
mounting

**BULLONERIA
VARIA**
NUTS AND
BOLTS



Montaggio
multiplo
Multiple
mounting

POSSIBILITÀ
POSSIBILITY



Montaggio
multiplo
Multiple
mounting

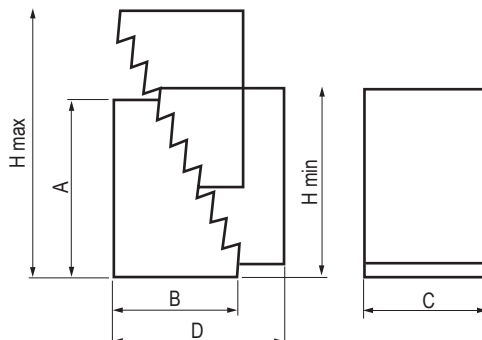
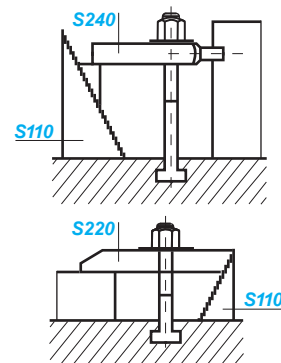
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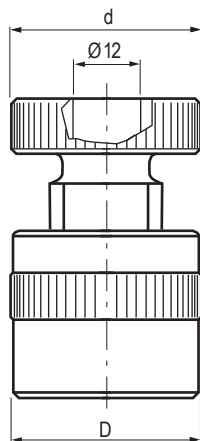


Montaggio
multiplo
Multiple
mounting

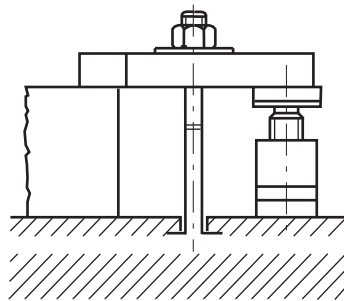


Dimensioni mm / Dimensions mm	B	C	D	H min	H max	gr	Cod.	€
Art. S110								
31.5	22	30	38	31,5	53	90	S110.00001	14
64.5	36.5	30	70	64,5	105	300	S110.00002	18
128	68	30	132	128	208	1050	S.110.00003	27

 Appoggi dentati
Toothed supports

 Altezza gradino: verticale = 4,65 mm / Orizzontale = 2,3 mm
Height of tooth: vertical = 4,65 mm / horizontal = 2,3 mm

Art. S120

 Appoggi a vite
Screw supports


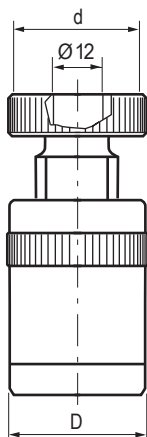
H min	H max	d	D	kN	gr	Passo	Cod.	€
38	50	34	34	20	190	M30	S120.00050	33
50	70	50	50	60	620	M30	S120.00070	42
70	100	50	50	60	900	M30	S120.00100	48
100	140	65	70	105	2600	Q 40 x 6	S120.00140	67
140	210	70	80	180	4900	Q 40 x 6	S120.00210	90
190	300	80	100	360	10500	Q 40 x 6	S120.00300	163


Art. S121

 Appoggi a vite con base in alluminio
Screw supports with aluminium base

h min	H max	d	D	kN	gr	Cod.	€
42	52	50	50	30	370	S121.00050	40
60	72	50	50	30	380	S121.00070	47
70	100	50	50	30	600	S121.00100	62

Art. S122

 Appoggi a vite con base magnetica
Screw supports with magnetic base


h min	H max	d	D	kN	gr	Cod.	€
57	64	50	50	30	380	S122.00050	72
75	84	50	50	30	550	S122.00070	80
85	112	50	50	30	710	S122.00100	94

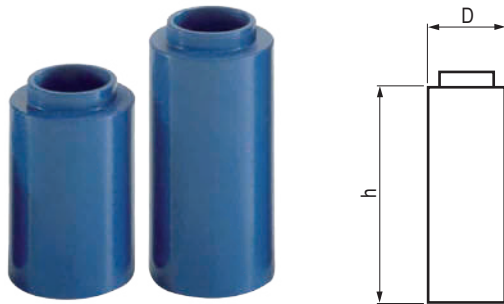
 Possibilità di posizionamento e registrazione sia in orizzontale che in verticale
Possibilità di posizionamento e registrazione sia in orizzontale che in verticale

 Base-materiale Art. S121 e S122: lega in alluminio ERGAL (EN 7075 UNI 3735)
Base-material Art. S121 and S122: ERGAL aluminium alloy (EN 7075 UNI 3735)

Dimensioni mm / Dimensions mm	D	h	per Articolo	gr	Cod.	€
Art. S125 Prolungha per appoggi a vite Extension pieces for screw supports	35	25	S120.00050	25	S125.35025	19
	35	50	"	50	S125.35050	19
	35	75	"	75	S125.35075	22
	35	100	"	100	S125.35100	24
	50	50	S120.00070 / 100	50	S125.50050	25
	50	75	"	75	S125.50075	30
	50	100	"	100	S125.50100	33
	50	150	"	150	S125.50150	39
	70	50	S120.00140	50	S125.70050	40
	70	100	"	100	S125.70100	45
	70	150	"	150	S125.70150	58
	70	200	"	200	S125.70200	68

Utilizzato con l'Art. S120 permette di prolungare l'altezza dell'appoggio. Possono essere sovrapposte.

Used with S120 give possibility to extend the length of the support. They should be placed one upon another



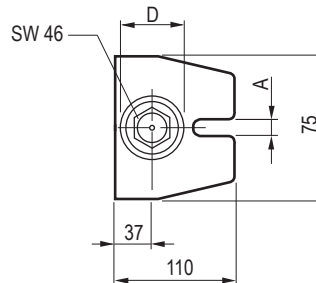
Art. S130

Appoggi a vite ATLAS
Screw supports ATLAS type



Filettatura trapezoidale passo 30 x 6. Con vite di fermo
Trapezoidal thread 30 x 6. With stationary screw

h min	H max	A	D	kN	gr	Cod.	€
100	140	18	50	60	1800	S130.18140	90
140	200	18	50	60	2300	S130.18200	96
200	320	22	50	40	3600	S130.22320	158
320	550	22	50	25	5500	S130.22550	215



Art. S131

Appoggi a vite tipo pesante
Screw bearing type heavy



Filettatura trapezoidale passo 40 x 6
Trapezoidal thread 40 x 6

h min	H max	A	D	kN	gr	Cod.	€
200	300	26	70	80	9500	S131.00300	277
280	460	26	70	60	11000	S131.00460	361
430	750	26	70	50	13500	S131.00750	494
710	1250	26	70	45	19000	S131.01250	629

Art. S210

Staffe semplici
Standard clamps

R. > 700 N / mm²

A	B	C	D	E	F	G	H	L		gr	Cod.	€
10	20	7	20	10	8			50	6	65	S210.07050	14
12	25	9	22	13	10			60	8	115	S210.09060	16
15	30	11	30	15	12			80	10	225	S210.11080	18
20	40	14	40	21	14			100	12-14	500	S210.14100	21
20	40	14	50	21	14			125	12-14	620	S210.14125	21
20	40	14	65	21	14			160	12-14	815	S210.14160	24
25	50	18	45	26	18			125	16-18	980	S210.18125	27
25	50	18	65	26	18			160	16-18	1260	S210.18160	27
25	50	18	80	26	18			200	16-18	1600	S210.18200	32
30	60	22	60	30	22			160	20-22	1850	S210.22160	36
30	60	22	80	30	22			200	20-22	2300	S210.22200	39
30	70	26	80	35	26			200	24	2650	S210.26200	40
30	70	26	105	35	26			250	24	3300	S210.26250	45
40	80	34	100	45	34			250	27-30	5000	S210.34250	66
40	80	34	130	45	34			315	27-30	6200	S210.34315	77

Art. S211

Staffe semplici ridotte
Shaped standard clamps

R. > 700 N / mm²

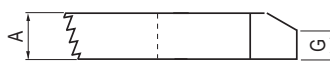
10	20	7	20	10	8	6	7	50	6	60	S211.07050	17
12	25	9	22	13	10	7	10	60	8	140	S211.09060	17
15	30	11	30	15	12	9	9	80	10	220	S211.11080	20
20	40	14	40	21	14	12	12	100	12-14	480	S211.14100	23
20	40	14	50	21	14	12	12	125	12-14	615	S211.14125	24
20	40	14	65	26	14	12	12	160	12-14	800	S211.14160	27
25	50	18	45	26	18	15	15	125	16-18	960	S211.18125	30
25	50	18	65	26	18	15	15	160	16-18	1230	S211.18160	32
25	50	18	80	26	18	15	15	200	16-18	1550	S211.18200	36
30	60	22	60	30	22	20	20	160	20-22	1800	S211.22160	36
30	60	22	80	30	22	20	20	200	20-22	2200	S211.22200	38
30	70	26	80	35	26	20	25	200	24	2450	S211.26200	41
30	70	26	105	35	26	20	25	250	24	3200	S211.26250	45
40	80	34	100	45	34	25	25	250	27-30	4800	S211.34250	70
40	80	34	130	45	34	25	25	315	27-30	6000	S211.34315	80

Art. S220

Staffe dentate
Toothed clamps

R. > 700 N / mm²

10	20	7	20	10	8	6		50	6	55	S220.07050	16
12	25	9	22	13	10	8		60	8	125	S220.09060	17
15	30	11	30	15	12	10		80	10	205	S220.11080	18
20	40	14	40	21	14	12		100	12-14	445	S220.14100	22
25	50	18	45	26	18	15		125	16-18	930	S220.18125	25
30	60	22	60	30	22	18		160	20-22	1700	S220.22160	32
30	70	26	80	35	26	18		200	24	2500	S220.26200	45



Art. S230

Staffe regolabili con vite a passo fine
Adjustable clamps with fine pitch screw

R. > 700 N / mm²

A	B	C	D	G	H	L	Ø		gr	Cod.	€
15	30	11	30	10	8-28	80	M10	10	345	S.230.11080	23
20	40	14	40	12	10-32	100	M12	12-14	680	S.230.14100	30
25	50	18	45	15	13-40	125	M16	16-18	1185	S.230.18125	36
30	60	22	60	18	18-60	160	M20	20-22	2030	S.230.22160	51

Art. S231

Viti di ricambio
Spare screws

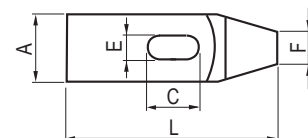
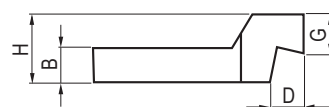
Viti ricambio / Spare screws		A	B	H	L	gr	Cod.	€
Art. S231		40	M10	8	60	130	S231.00010	10
		45	M12	8	60	210	S231.00012	11
		45	M16	8	70	245	S231.00016	12
		45	M20	8	80	300	S231.00020	14

Dimensioni mm / Dimensions mm		A	B	C	D	E	F	G	H	L		gr	Cod.	€
Art. S240		15	30	9	30	18	12			100	8	205	S240.09100	24
Staffe a forcella con gambo cilindrico Forked clamps with cylindrical shank		20	30	11	36	24	16			125	10	335	S240.11125	27
R. > 600 N / mm²		25	40	14	45	30	20			160	12-14	720	S240.14160	30
		25	40	14	45	30	20			200	12-14	920	S240.14200	39
		30	50	18	55	36	24			200	16-18	1310	S240.18200	42
		30	50	18	55	36	24			250	16-18	1640	S240.18250	51
		40	60	22	65	45	30			250	20-22	2160	S240.22250	56
		40	60	22	65	45	30			315	20-22	3300	S240.22315	64
		40	70	26	80	56	38			250	24	3100	S240.26250	75
		40	70	26	80	56	38			315	24	3900	S240.26315	87
		50	80	34	85	56	45			315	27-30	5500	S240.34315	102
		50	80	34	85	56	45			400	27-30	6900	S240.34400	120

Art. S250		15	30	9	30	18	16	5		100	8	225	S250.09100	24
Staffe a forcella con nasello Forket clamps with nib		20	30	11	36	24	20	6		125	10	360	S250.11125	27
R. > 600 N / mm²		25	40	14	45	30	25	7		160	12-14	770	S250.14160	30
		25	40	14	45	30	25	7		200	12-14	950	S250.14200	39
		30	50	18	55	36	28	8		200	16-18	1420	S250.18200	42
		30	50	18	55	36	28	8		250	16-18	1700	S250.18250	51
		40	60	22	65	45	35	10		250	20-22	2790	S250.22250	56
		40	60	22	65	45	35	10		315	20-22	3480	S250.22315	64
		40	70	26	80	56	43	10		250	24	3320	S250.26250	75
		40	70	26	80	56	43	10		315	24	4270	S250.26315	87
		50	80	34	85	56	50	12		315	27-30	5700	S250.34315	102
		50	80	34	85	56	50	12		400	27-30	7250	S250.34400	120

Art. S260		40	20	30	20	14	20	23	40	125	12-14	750	S260.14125	34
Staffe a gomito Cranked clamps		50	25	40	25	18	25	28	50	160	16-18	1510	S260.18160	53
R. > 700 N / mm²		50	25	60	25	18	25	28	50	200	16-18	1790	S260.18200	58
		60	30	40	30	22	30	35	60	160	20-22	2190	S260.22160	65
		60	30	60	30	22	30	35	60	200	20-22	2700	S260.22200	79
		70	35	50	35	26	35	38	70	200	24	3660	S260.26200	82
		70	35	75	35	26	35	38	70	250	24	4560	S260.26250	87

Il pregio dell'articolo sta nell'essere prodotto tramite la fresatura di un blocco d'acciaio (non è quindi piegato)
This article is produced milling a steel block
(it is not produced by bending)



Dimensioni mm / Dimensions mm	A	B	C	G	L		gr	Cod.	€
Art. S270 Staffe a forcella con smusso Forked clamps with bevel R. > 600 N / mm²	12	20	7	3	60	6	70	S270.07060	17
	15	25	9	4	80	8	150	S270.09080	18
	20	30	11	5	100	10	270	S270.11100	19
	25	40	14	6	125	12-14	590	S270.14125	23
	25	40	14	6	160	12-14	760	S270.14160	25
	25	40	14	6	200	12-14	970	S270.14200	27
	30	50	18	8	160	16-18	1160	S270.18160	33
	30	50	18	8	200	16-18	1400	S270.18200	34
	40	50	18	10	250	16-18	2330	S270.18250	41
	40	50	22	10	200	20-22	1700	S270.22200	40
	40	60	22	10	250	20-22	2880	S270.22250	49
	40	60	22	10	315	20-22	2530	S270.22315	51
	40	70	26	10	200	24	2680	S270.26200	53
	40	70	26	10	250	24	3370	S270.26250	60
	40	70	26	10	315	24	4220	S270.26315	80
	50	80	34	12	250	27-30	4480	S270.34250	75
	50	80	34	12	315	27-30	5600	S270.34315	97
	50	80	34	12	400	27-30	7150	S270.34400	107
	60	100	40	12	400	36	11700	S270.40400	161
	60	100	40	12	600	36	17300	S270.40600	212


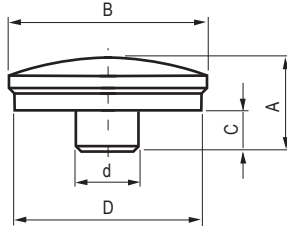
Il pregio dell'articolo sta nell'essere prodotto tramite la fresatura di un blocco d'acciaio (non è quindi piegato)

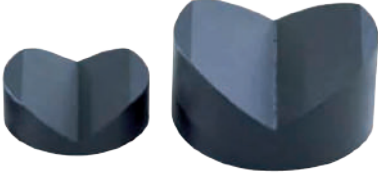
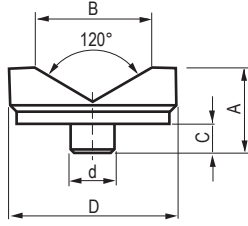
This article is produced milling a steel block (it is not produced by bending)


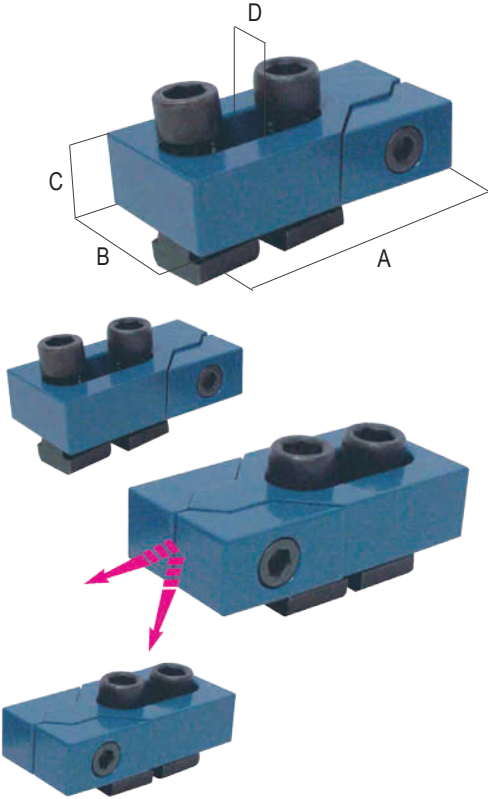
Dimensioni mm / Dimensions mm	A	B	C	D	E	F	H	L	Ø		gr	Cod.	€
Art. S280 Staffe regolabili con vite a passo quadro Adjustable clamps with square thread screw R. > 700 N / mm²	20	40	15	40	12	12	15-50	100	20x4	12-14	620	S280.14100	38
	20	40	15	45	12	12	15-50	125	20x4	12-14	770	S280.14125	40
	20	40	15	60	12	12	15-50	160	20x4	12-14	950	S280.14160	42
	25	50	19	45	15	15	15-70	125	20x4	16-18	1090	S280.18125	45
	25	50	19	60	15	15	15-70	160	30x6	16-18	1640	S280.18160	47
	25	50	19	80	15	15	15-70	200	30x6	16-18	1970	S280.18200	52
	30	60	23	60	15	20	15-70	160	30x6	20-22	2120	S280.22160	58
	30	60	23	80	15	20	15-70	200	30x6	20-22	2570	S280.22200	63
	40	70	27	80	25	23	15-70	200	30x6	24	3700	S280.26200	45
	40	70	27	100	25	23	15-70	250	30x6	24	4620	S280.26250	70
	40	70	27	100	25	23	15-70	300	30x6	24	5740	S280.26300	75

Dimensioni mm / Dimensions mm	A	B	H	L	gr	Cod.	€
Art. S281 Viti di ricambio per staffe Spare screw for clamps	10	20 x 4	70	35	190	S281.20004	18
	15	30 x 6	100	45	540	S281.30006	23
	15	30 x 6	125	70	1050	S281.30006.A	27

Filetto TPN passo quadro.
Materiale: 35SMnPb 10 UNI 4838. Classe 8.8
TPN thread square pitch.
Material: SMnPb 10 UNI 4838. Class 8.8

Dimensioni mm / Dimensions mm	A	B	C	D	d	gr	Cod.	€
Art. S151 Puntali bombati Convex caps 	18	37	8	35	12	70	S151.00035	20
Utilizzati su Art. S120, S121, S122, S130, S131 Used on Art. S120, S121, S122, S130, S131								

Art. S152 Puntali prismatici "V" groove caps 	23	32	8	45	12	145	S152.00045	25
Utilizzati su Art. S120, S121, S122, S130, S131 Used on Art. S120, S121, S122, S130, S131	38	56	8	65	12	580	S152.00065	32
								

Dimensioni mm / Dimensions mm	A	B	C	D		kN F1	kN F2	gr	Cod.	€
Art. ML10 Morsetti laterali Side buckles 	80	40	20	11,7	12	16	0,6	1040	ML10.00012	186
	80	40	20	13,7	14	22	0,9	1070	ML10.00014	198
	100	50	25	15,7	16	32	1,2	2040	ML10.00016	209
	100	50	25	17,7	18	36	1,4	2080	ML10.00018	221
	100	50	25	19,7	20	36	1,4	2290	ML10.00020	233
	140	78	30	21,7	22	36	1,4	5530	ML10.00022	247
	140	78	30	23,7	24	36	1,4	5800	ML10.00024	258
	140	78	30	27,7	28	40	1,6	6200	ML10.00028	270
Costruzione a cuneo che permette il bloccaggio contemporaneo del pezzo in senso verticale e orizzontale Forniti in coppia Wesge type construction which enable to simultaneously clamp vertically and horizontally. Supplied in pairs	140	78	30	29,7	30	40	1,6	6800	ML10.00030	282

STAFFAGGI ASSORTITI ASSORTED CLAMPING TOOLS

Art. S410

Kit 46 pezzi / pcs.



Art. S440

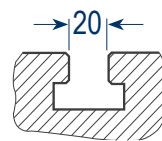
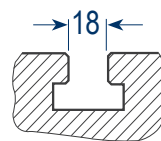
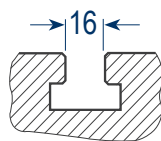
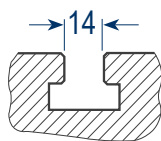
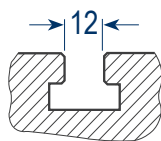
Kit 20 pezzi / pcs.



APPOGGI DENTATI MULTIPLE STEP SUPPORT

Art. S410

Kit 46 pezzi / pcs.



Descrizione contenuto Contents description	Cod. S410.00012	Cod. S410.00014	Cod. S410.00016	Cod. S410.00018	Cod. S410.00020
	€ 457	€ 476	€ 575	€ 625	€ 732
Appoggi dentati / Toothed support	n. 2 S110.00001	n. 2 S110.00001	n. 2 S110.00001	n. 2 S110.00001	n. 2 S110.00001
Appoggi dentati / Toothed support	n. 4 S110.00002	n. 4 S110.00002	n. 4 S110.00002	n. 4 S110.00002	n. 4 S110.00002
Appoggi dentati / Toothed support	n. 2 S110.00003	n. 2 S110.00003	n. 2 S110.00003	n. 2 S110.00003	n. 2 S110.00003
Staffe semplici / Flat clamps	n. 4 S210.14100	n. 4 S210.14125	n. 4 S210.14100	n. 4 S210.18125	n. 4 S210.22200
Staffe dentate / Toothed clamps	n. 4 S220.14100	n. 4 S220.14100	n. 4 S220.18125	n. 4 S220.18125	n. 4 S220.22160
Viti testa martello / T-slot bolts	n. 2 S310.12080	n. 2 S310.14100	n. 4 S310.16100	n. 4 S310.18150	n. 4 S310.20150
Viti testa martello / T-slot bolts	n. 4 S310.12125	n. 4 S310.14150	n. 2 S310.16150	n. 2 S310.18200	n. 2 S310.20200
Prigionieri completi / Studs	n. 2 S320.10080	n. 2 S320.12080	n. 2 S320.14100	n. 2 S320.16125	n. 2 S320.18125
Prigionieri completi / Studs	n. 2 S320.10100	n. 2 S320.12160	n. 2 S320.14160	n. 2 S320.16160	n. 2 S320.18160
Dadi prolung. / Extensions nuts	n. 4 S350.10030	n. 4 S350.12036	n. 4 S350.14042	n. 4 S350.16048	n. 4 S350.18054
Dadi altri / Turned toll nuts	n. 6 S340.12018	n. 6 S340.14021	n. 6 S340.16024	n. 6 S340.18027	n. 6 S340.20030
Tasselli per cave / T-slot nuts	n. 4 S360.10012	n. 4 S360.12014	n. 4 S360.14016	n. 4 S360.16018	n. 4 S360.18020
Rondelle / Washers	n. 6 S370.00012	n. 6 S370.00014	n. 6 S370.00016	n. 6 S370.00018	n. 6 S370.00020
Peso kg / Weight kg	10,5	12	17	18	27
Dimensioni cm / Dimensions cm	37 x 32		47 x 33		50 x 41
Cassetta in legno vuota Wooden box	Cod. S410.BOX01		Cod. S410.BOX02		Cod. S410.BOX03
	€ 124		€ 148		€ 171

Art. S440

Kit 20 pezzi / pcs.

 Descrizione contenuto
Contents description


S110.00001	8 pezzi / pcs
S110.00002	8 pezzi / pcs
S110.00003	4 pezzi / pcs
Peso kg / Weight kg	8,5
Dimensioni cm / Dimensions cm	30,5 x 17

Cod. S440.00001

€ 343

ELEMENTI MODULARI DI STAFFAGGIO

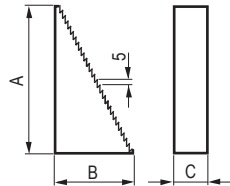
Materiale: Alluminio

MODULAR CLAMPING TOOLS

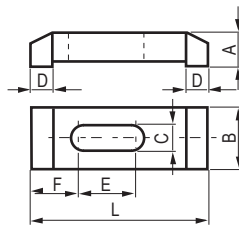
Material: Aluminum

STAFFAGGI ASSORTITI IN ALLUMINIO - ALUMINIUM ASSORTED CLAMPING TOOLS

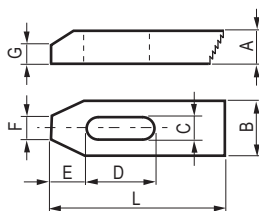
Dimensioni mm / Dimensions mm	A	B	C	D	E	F	G	L	gr	Cod.	€
Art. S115 Appoggi dentati / Toothed supports	34	28	25						35	S115.00001	20
	66	38	25						100	S115.00002	24
	128	70	25						280	S115.00003	37



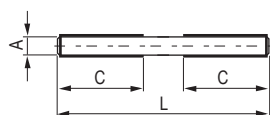
Dimensioni mm / Dimensions mm	A	B	C	D	E	F	G	L	gr	Cod.	€
Art. S215 Staffe doppie / Double clamps	15	25	9	11	28	20		65	40	S215.00065	23
	20	25	9	14	40	20		100	85	S215.00100	25
	20	30	9	18	65	24		150	150	S215.00150	33



Dimensioni mm / Dimensions mm	A	B	C	D	E	F	G	L	gr	Cod.	€
Art. S225 Staffe dentate / Toothed clamps	13	25	9	25	16	10	11	65	43	S225.00065	23
	17	25	9	46	20	11	11	100	92	S225.00100	25
	17	30	9	82	23	12	12	150	162	S225.00150	30



Dimensioni mm / Dimensions mm	A	B	C	D	E	F	G	L	gr	Cod.	€
Art. S325 Prigionieri singoli in acciaio zincato Single studs in zinked steel	M8		40					100	31	S325.08100	8
	M8		40					125	39	S325.08125	9
	M8		40					150	47	S325.08150	9
	M8		40					175	54	S325.08175	9
	M8		40					200	62	S325.08200	10



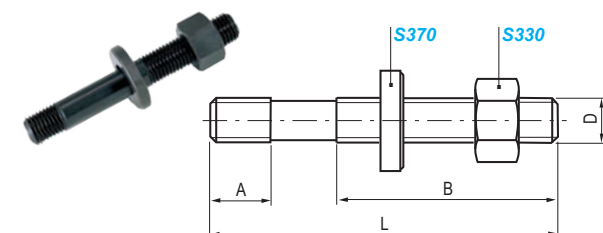
BULLONERIA VARIA Materiale: UNI 42CrMo4 a norma ASTM A193-B7 Classe 10.9

NUTS AND BOLTS Material: UNI 42CrMe4 according to standard ASTM A193 B7 Class 10.9

Dimensioni mm / Dimensions mm	A	B	D	H	L	T	gr	Cod.	€
Art. S310 Vite testa martello completa di dado S340 e rondella S370 Hammerheads bolts complete with nut S340 and washer S370	11,7	55	M12	7	80	18	125	S310.12080	12
	11,7	75	M12	7	125	18	150	S310.12125	12
	13,7	65	M14	8	100	22	215	S310.14100	13
	13,7	100	M14	8	150	22	270	S310.14150	14
	15,7	63	M16	9	100	25	270	S310.16100	14
	15,7	100	M16	9	150	25	345	S310.16150	14
	17,7	100	M18	10	150	28	450	S310.18150	19
	17,7	125	M18	10	200	28	530	S310.18200	19
	19,7	100	M20	12	150	32	600	S310.20150	21
	19,7	125	M20	12	200	32	700	S310.20200	21

Filetto ottenuto per rollatura / Rolled thread

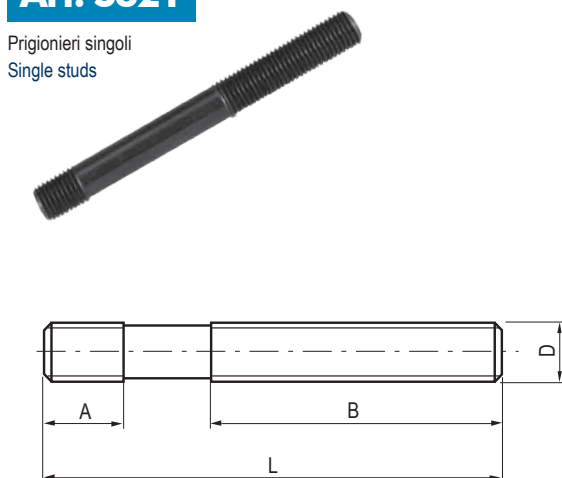
Art. S320

 Prigionieri completi di dado S330 e rondella S370
 Studs complete with short nut S330 and washer S370


Filetto ottenuto per rollatura / Rolled thread

13	50	M10			80		65	S320.10080	8
13	75	M10			100		75	S320.10100	8
15	50	M12			80		95	S320.12080	8
15	100	M12			160		155	S320.12160	9
17	63	M14			100		160	S320.14100	9
17	100	M14			160		215	S320.14160	10
19	75	M16			125		235	S320.16125	10
19	100	M16			160		295	S320.16160	10
23	75	M18			125		300	S320.18125	11
23	100	M18			160		355	S320.18160	11

Art. S321

 Prigionieri singoli
 Single studs


Filetto ottenuto per rollatura / Rolled thread

14	25	M10			60		30	S321.10060	8
14	30	M10			80		40	S321.10080	8
14	35	M10			100		50	S321.10100	8
14	40	M10			120		65	S321.10120	8
14	50	M10			160		80	S321.10160	8
14	60	M10			200		100	S321.10200	8
15	32	M12			60		45	S321.12060	8
15	50	M12			80		55	S321.12080	8
15	63	M12			100		70	S321.12100	8
15	75	M12			125		90	S321.12125	8
15	100	M12			160		115	S321.12160	9
15	125	M12			200		140	S321.12200	9
19	35	M16			65		85	S321.16065	9
19	50	M16			80		105	S321.16080	9
19	75	M16			125		160	S321.16125	9
19	100	M16			160		220	S321.16160	10
19	125	M16			200		280	S321.16200	11
19	160	M16			250		325	S321.16250	12

! Si eseguono su richiesta misure non a catalogo / Other sizes can be supplied on request

BULLONERIA VARIA Material: UNI 42CrMo4 according a norma ASTM A193-B7 Classe 10.9

NUTS AND BOLTS Material: UNI 42CrMo4 according to standard ASTM A193-B7 Class 10.9

DADI e RONDELLE - NUTS and WASHERS

Dimensioni mm / Dimensions mm		A	B	C	D	E	H	M	S	T	gr		Cod.	€
Art. S340 Dadi alti torniti - Turned tall nuts 						21,5	18	M12	19		28		S340.12018	7
						25	21	M14	22		45		S340.14021	8
						27,5	24	M16	24		58		S340.16024	8
						31	27	M18	27		83		S340.18027	8
						34,6	30	M20	30		110		S340.20030	8
Art. S350 <i>Ex. Art. S360</i> Dadi prolungamento - Extension nuts 						19,6	30	M10	17		42		S350.10030	8
						21,5	36	M12	19		64		S350.12036	8
						25	42	M14	22		95		S350.14042	9
						27,5	48	M16	24		120		S350.16048	9
						31	54	M18	27		170		S350.18054	10
Art. 287 Dadi per cave a "T" - Nuts for "T" slots 	18	14	7	11,7				M10			12	12	2.28.72000 / 12	16
	22	16	8	13,7				M12			22	14	2.28.72000 / 19	16
	25	18	9	15,7				M14			37	16	2.28.740000 / 27	24
	28	20	10	17,7				M16			59	18	2.28.740000 / 32	24
	32	24	12	19,7				M18			82	20	2.28.760000 / 39	46
Art. S370 Rondelle normali tornite - Flat washer 					10,5	22	4				9		S370.00010	6
						13	28	5			20		S370.00012	6
						15	35	6			35		S370.00014	7
						17	35	6			35		S370.00016	7
						19	40	6			45		S370.00018	8
Art. S380 Rondelle alte tornite - Thick washer 					10,5	35	8				55		S380.00010	8
						13	40	8			70		S380.00012	8
						15	40	10			85		S380.00014	8
						17	45	10			105		S380.00016	9
						19	45	10			100		S380.00018	9

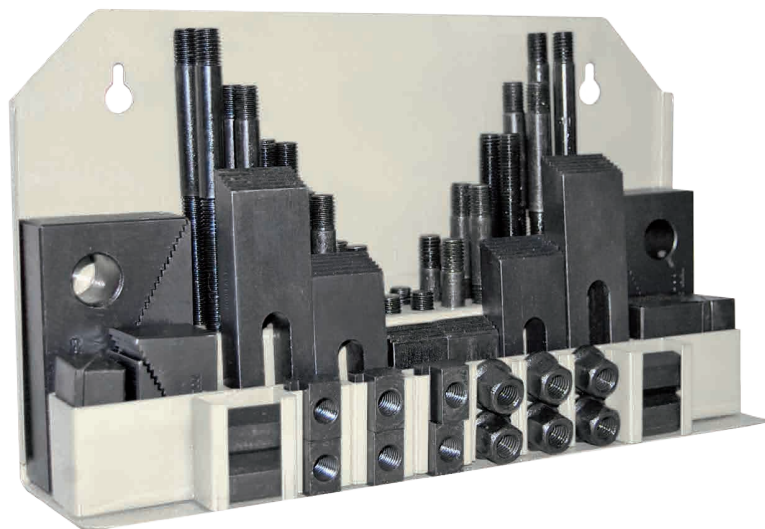
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ELEMENTI MODULARI DI STAFFAGGIO Materiale: Acciaio da bonifica verniciato

MODULAR CLAMPING TOOLS Material: Hardened painted steel

KIT STAFFAGGI DA 58 PEZZI - CLAMPING KIT / 58 PIECES

Con appoggi dentati e staffe dentate - With step bloks & stepped strap clamping









Ciascun kit include tutti i più importanti elementi di staffaggio per serrare una varietà di particolari. La tabella sottostante indica il contenuto di ogni tipologia di kit di staffaggi adatta per differenti dimensioni di cave a "T"

Each kit consists of all important clamping elements required to clamp a variety of work pieces. Following table shows the contents of each model of clamping kit suitable for different T-Slot sizes.

Art. G410

Il Clamping Kit GERARDI da 58 pezzi è disponibile in una elegante rastrelliera che può essere appesa alle macchine o su una parete o appoggiata ad un banco.

GERARDI Clamping Kit - 58 pieces is available in an attractive powder coated metallic rack which can be hanged on machines or a wall or kept on a table.

Descrizione prodotto Product Description	Cod.	G410.581210	G410.581410	G410.581412	G410.581612	G410.581812	G410.581816	G410.582016	G410.582216
	€	124	124	162	162	162	221	221	221
	T-SLOT SIZE	T-SLOT SIZE	T-SLOT SIZE	T-SLOT SIZE	T-SLOT SIZE	T-SLOT SIZE	T-SLOT SIZE	T-SLOT SIZE	T-SLOT SIZE
	12mm	14mm	14mm	16mm	18mm	18mm	20mm	22mm	
 Dadi a T T nuts (6 pcs)		TN-12-M10	TN-14-M10	TN-14-M12	TN-16-M12	TN-18-M12	TN-18-M16	TN-20-M16	TN-22-M16
 Prigionieri Clamping studs (4 pcs)		CS-10-75 CS-10-100 CS-10-125 CS-10-150 CS-10-175 CS-10-200	CS-10-75 CS-10-100 CS-10-125 CS-10-150 CS-10-175 CS-10-200	CS-12-75 CS-12-100 CS-12-125 CS-12-150 CS-12-175 CS-12-200	CS-12-75 CS-12-100 CS-12-125 CS-12-150 CS-12-175 CS-12-200	CS-12-75 CS-12-100 CS-12-125 CS-12-150 CS-12-175 CS-12-200	CS-16-75 CS-16-100 CS-16-125 CS-16-150 CS-16-175 CS-16-200	CS-16-75 CS-16-100 CS-16-125 CS-16-150 CS-16-175 CS-16-200	CS-16-75 CS-16-100 CS-16-125 CS-16-150 CS-16-175 CS-16-200
 Dadi flangiati Flanged nuts (6 pcs)		FN-10	FN-10	FN-12	FN-12	FN-12	FN-16	FN-16	FN-16
 Dadi prolungamento Extension nuts (4 pcs)		EN-10	EN-10	EN-12	EN-12	EN-12	EN-16	EN-16	EN-16
 Staffe dentate Stepped strap clamps (2 pcs)		SSC-10-60 SSC-10-80 SSC-10-120	SSC-10-60 SSC-10-80 SSC-10-120	SSC-12-65 SSC-12-100 SSC-12-125	SSC-12-65 SSC-12-100 SSC-12-125	SSC-12-65 SSC-12-100 SSC-12-125	SSC-16-75 SSC-16-125 SSC-16-160	SSC-16-75 SSC-16-125 SSC-16-160	SSC-16-75 SSC-16-125 SSC-16-160
 Appoggi dentati Step blocks (4 pcs)		SB-1 SB-2 SB-3	SB-1 SB-2 SB-3	SB-1 SB-2 SB-3	SB-1 SB-2 SB-3	SB-1 SB-2 SB-3	SB-1 SB-2 SB-3	SB-1 SB-2 SB-3	SB-1 SB-2 SB-3
N° totale pezzi Total n. of pieces		58 pieces	58 pieces	58 pieces	58 pieces	58 pieces	58 pieces	58 pieces	58 pieces
Peso lordo totale Total gross weight		9 kg	9 kg	13 kg	13 kg	13 kg	18 kg	18,5 kg	19 kg

ELEMENTI MODULARI DI STAFFAGGIO

Materiale: Acciaio da bonifica verniciato

MODULAR CLAMPING TOOLS

Material: Hardened painted steel

KIT STAFFAGGI DA 34 PEZZI - CLAMPING KIT / 34 PIECES

Con piastre di appoggio regolabili e piastre dentate - With adjustable support plates & strap clamps








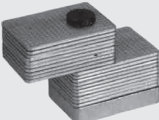
Il Clamping Kit GERARDI da 34 pezzi è un clamping kit economico alloggiato in una elegante scatola di legno.

GERARDI Clamping Kit - 34 pieces is an economical clamping kit housed in an elegant wooden box.

Art.G411

La tabella sottostante indica il contenuto di ogni tipologia di kit di staffaggi adatta per different dimensioni di cave a "T"

Following table shows the contents of each model of clamping kit suitable for different T-Slot sizes.

Descrizione Contenuto		Cod.	G411.341412	G411.341612	G411.341812
Contents Description		€	124	124	124
			T-SLOT SIZE 14mm	T-SLOT SIZE 16mm	T-SLOT SIZE 18mm
	Dadi a T / T nuts (4 pcs)		TN14-M12	TN16-M12	TN18-M12
	Prigionieri Clamping studs (4 pcs)		CS-12-75 CS-12-100 CS-12-150 CS-12-200	CS-12-75 CS-12-100 CS-12-150 CS-12-200	CS-12-75 CS-12-100 CS-12-150 CS-16-200
	Dadi flangiati / Flanged nuts (2 pcs)		FN-12	FN-12	FN-12
	Dadi prolungamento / Extension nuts (2 pcs)		EN-12	EN-12	EN-12
	Staffe dentate Stepped strap clamps (2 pcs)		SSC-12-100 SSC-12-125	SSC-12-100 SSC-12-125	SSC-12-100 SSC-12-125
	Piastre di appoggio regolabili Adjustable support plates (2 pcs)		ASP-250 ASP-2100	ASP-250 ASP-2100	ASP-250 ASP-2100
N° totale pezzi / Total n. of pieces			34 pieces	34 pieces	34 pieces
Peso lordo totale / Total gross weight			-	-	-

ELEMENTI MODULARI DI STAFFAGGIO Materiale: Acciaio da bonifica verniciato

MODULAR CLAMPING TOOLS Material: Hardened painted steel

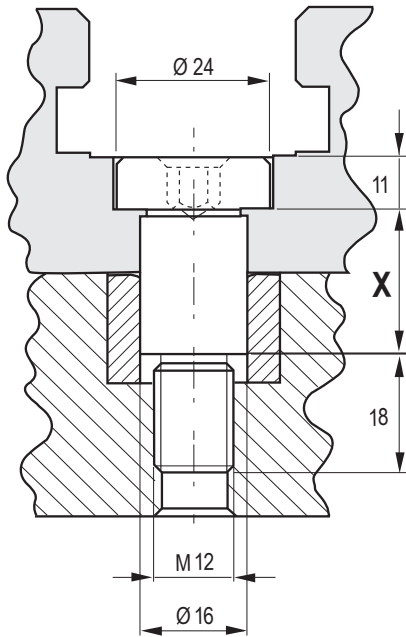
VITI CALIBRATE - CALIBRATED SCREWS

Dimensioni mm / Dimensions mm

X = mm
gr

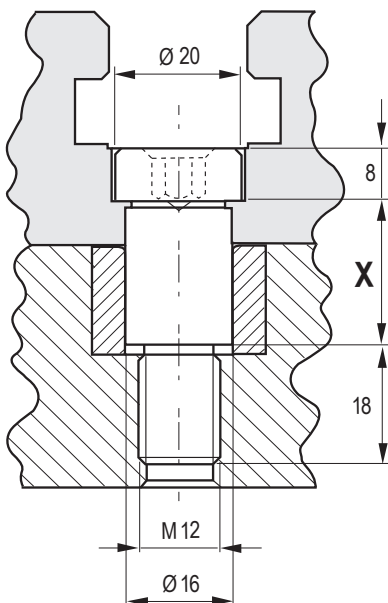
Cod.

€
Art.83

 Vite calibrata a colletto
Shoulder calibrated screw


30	60	8.83.16300	14
35	70	8.83.16350	16
40	80	8.83.16400	16
45	90	8.83.16450	17
50	90	8.83.16500	17
55	100	8.83.16550	18
60	100	8.83.16600	18
65	110	8.83.16650	19
70	120	8.83.16700	20
75	130	8.83.16750	20
80	140	8.83.16800	21
85	150	8.83.16850	21
90	160	8.83.16900	22
95	170	8.83.16950	22
100	180	8.83.16100	23

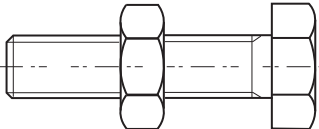
Art.83B

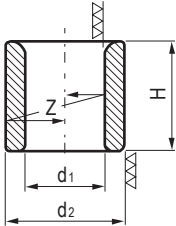
 Vite calibrata a colletto
Shoulder calibrated screw


20	50	8.83.B1620	13
25	50	8.83.B1625	14
30	60	8.83.B1630	14
35	60	8.83.B1635	16
40	70	8.83.B1640	16
45	80	8.83.B1645	17
50	90	8.83.B1650	17
55	90	8.83.B1655	18
60	100	8.83.B1660	18
65	110	8.83.B1665	19
70	120	8.83.B1670	20
75	130	8.83.B1675	20
80	140	8.83.B1680	21
85	150	8.83.B1685	21
90	160	8.83.B1690	22
95	170	8.83.B1695	22
100	180	8.83.B1610	23

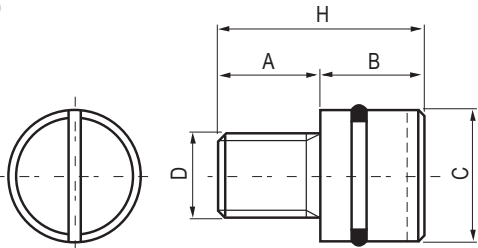
BULLONERIA VARIA

BUSHINGS AND BOLTS

Dimensioni mm / Dimensions mm	Peso gr Weight	Cod.	€
Art.83C			
Vite riscontro Bolt travel limit			
			
M10 x 50		8.83C.413010	22
M10 x 60		8.83C.413020	22
M12 x 50		8.83C.513010	22
M12 x 60		8.83C.513020	22

Dimensioni mm / Dimensions mm	d2	H	Z	Cod.	€
Art.83D					
Bussole di centraggio in acciaio speciale cementato HRc60. DIN 179C - 12 / 16 / 20 mm					
Centering bushing are in special alloy steel case hardened and heat treated hardness HRc60. DIN 179C - 12 / 16 / 20 mm					
					
12F7	18n6	12	0,01	8.83.D0000/12	10
16F7	26n6	16	0,01	8.83.D0000/16	11
20F7	30n6	20	0,01	8.83.D0000/20	12

	Cod.	€
Art.83E		
Filetti riportati in acciaio INOX M10 / M12 / M16		
M10 / M12 / M16 stainless steel helicoil		
		
	8.83.E0000/10	7
	8.83.E0000/12	7
	8.83.E0000/16	7

Dimensioni mm / Dimensions mm	B	C	D	H	X	Cod.	€	
Art.84								
Tappi di chiusura (Alluminio)								
Plug (Aluminium)								
								
	10	11	12	M10	21	OR.108	8.84.403010	9
	15	16	16	M12	31	OR.3043	8.84.503010	9
	15	19	20	M16	34	OR.119	8.84.603010	11

Guarnizione X
Packing X

PORTAPEZZI MODULARI - STAFFE INTELLIGENTI

MODULAR PIECE-HOLDERS - INTELLIGENT CLAMPS

Dimensioni mm / Dimensions mm	A	B	C	D	Cod.	€
Art. 100	80	100	16	16	8.10.08010	433
	100	100	20	20	8.10.01010	457
	100	120	20	20	8.10.01012	496

Art. 100
Staffe intelligenti
Intelligent clamp

Dolci o temprate
Soft or hardened

A richiesta anche speciali / On request taylor made

PRIGIONIERO - STUD	E	F	G	H	J	K	M	Cod.	€
Art. 101	16	80	30	30	20	6	16	8.10.12080	28
	20	100	35	40	25	6	20	8.10.12410	33
	20	120	40	50	30	6	24	8.10.13012	40

Art. 101
Dadi e rondelle inclusi
Including washer and nuts

Prigioniero
Stud

A richiesta anche speciali / On request taylor made

Art. 376 in dotazione / Standard equipment

1- Un primo lato del particolare da lavorare deve prima essere finito e predisposto per adattarsi alle staffe G.i. Normalmente si devono realizzare fori di precisione con filetto finale che servono per il posizionamento e l'ancoraggio superiore delle staffe G.i.

2- Ancoraggio inferiore delle staffe G.i. sulla Vostra tavola a reticolo, oppure tramite una piastra a reticolo di interfacciamento se la Vostra tavola non può adattarsi alle staffe G.i.

1- The first face of the work piece must be finished to fit the new G.i. clamps. This means to make precision holes with a bottom thread which is used to fix the upper part of the G.i. clamps.

2- Fix the lower part of the G.i. clamps to the modular grid table or to another modular grid plate for interfacing with the normal table.

Art. 101
Prigionieri calibrati
Calibrated studs

Art. 101
Prigionieri calibrati
Calibrated studs

RAPIDITA' DI STAFFAGGIO E RIPOSIZIONAMENTO ENTRO 0,02mm
QUICK CLAMPING AND ACCURATE POSITIONING WITHIN 0,02mm

Sistema a reticolo o altro
Grid modular system or other

Pezzo
Piece

STAFFE INTELLIGENTI GERARDI
GERARDI INTELLIGENT CLAMPS

Dadi e rondelle
Washer and nuts

FASI DI LAVORAZIONI CON LE STAFFE INTELLIGENTI Gi

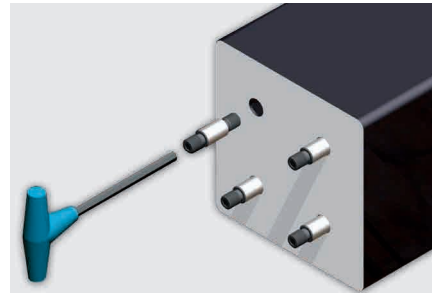
WORK CYCLE OPERATIONS WITH INTELLIGENT CLAMPS Gi



1

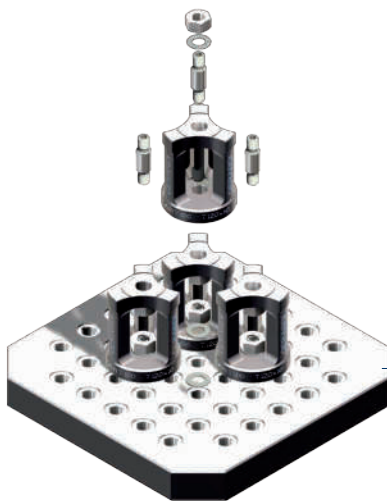
Lavorazione della prima faccia del pezzo grezzo e realizzazione delle sedi dei prigionieri con interassi simili al vostro piano a reticolo

First face of the rough workpiece must be finished including precision holes with bottom thread with same pitch of your grid plate for placing stud



2

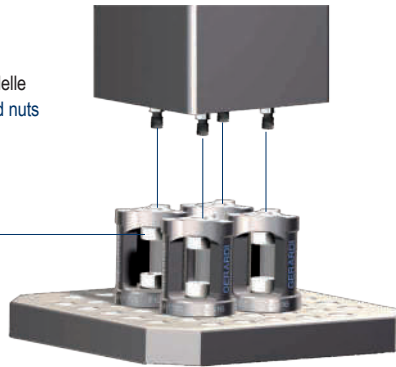
Inserire i prigionieri nella faccia del pezzo lavorato
Place the studs in the finished face



3

Fissare le staffe G.i. sul piano a reticolo per mezzo dei prigionieri
Fix the G.i. clamps on the grid plate through the studs

Dadi e rondelle
Washer and nuts



4

Solleverlo il pezzo con inseriti i prigionieri e fissarlo sulle staffe G.i. tramite i dadi
Lift the workpiece with the studs in position and fixed to the G.i. clamps through the nuts

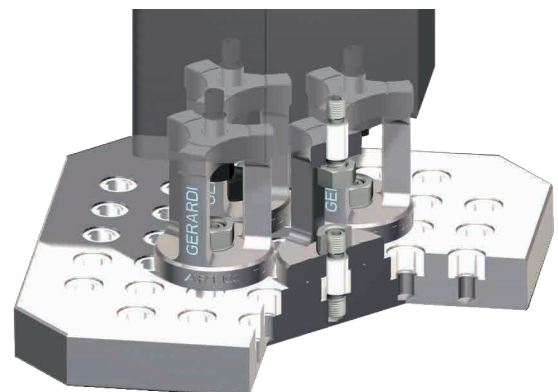


5

Ora il pezzo è fissato e posizionato
Now the workpiece is fixed and positioned the nuts

- Minimo ingombro e peso praticamente nullo ! Sistema semplificato al massimo !
- 5 lati liberi da lavorare senza alcun ingombro - Il percorso dell'utensile è libero e senza alcun intoppo
- Precisione di posizionamento facile e sicuro senza alcuna possibilità di spostamento in qualsiasi condizione di lavoro. Ripetibilità entro 0,02mm
- Semplicità, notevole risparmio di tempo e rapidità di staffaggio e posizionamento contemporanei
- Ammortamento praticamente immediato per i costi delle nuove staffe intelligenti G.i.
- Utilizzabili subito su qualsiasi Vs. tavola a reticolo oppure usando piastre di interfacciamento a reticolo se la Vs. tavola a cave non può adattarsi alle staffe G.i.
- Innalzamento automatico del Vs. pallet per centri di lavoro orizzontali che normalmente necessitano di una sovravola per sfruttare a pieno la corsa verticale del mandrino
- Disponibili sia dolci che temprate

- A simple system - Light weight - Minimum overall dimensions
- 5 free faces of the work piece can be machined without interference and the cutting tool can travel freely
- Easy, safe rigid and very accurate workpiece holding repeatability within 0,02mm.
- High time saving with simultaneous and simple workpiece positioning and clamping
- Cost quickly recovered in time saving
- Readily useable on grid tables or plates or using extra interface plates to the machine table
- Raises the work piece without the need for an extra over table. Thus allowing full utilization of the machine spindle vertical travel
- G.i. clamps available soft or hardened



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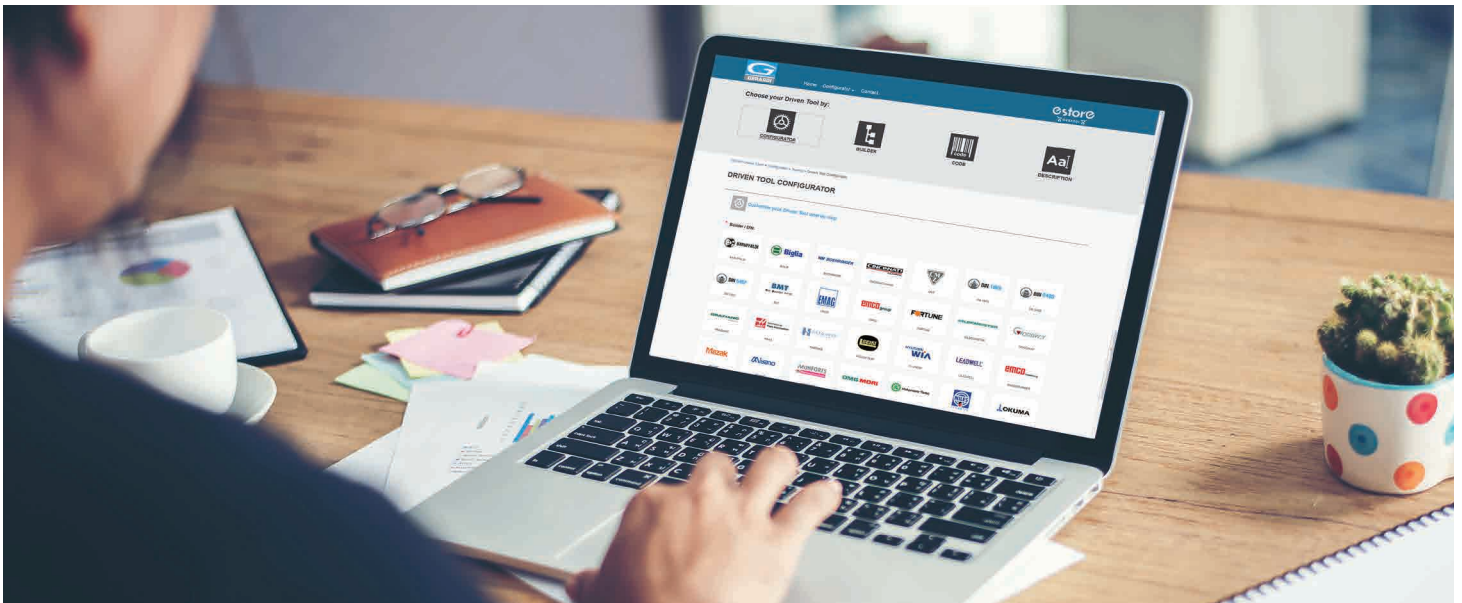
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Immerse yourself in the Gerardi world and discover all the Workholding and Tooling products displayed in our showroom through our 360° virtual tour. Find out all the multimedia contents and stay up to date!



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