

# STD / StdFLEX / OK Series MORSE - VISES



**MADE IN ITALY**



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# VALIGETTA DI CAMPIONATURA STD (Art.1) SAMPLE KIT CASE STD (Art.1)

**NEW!**

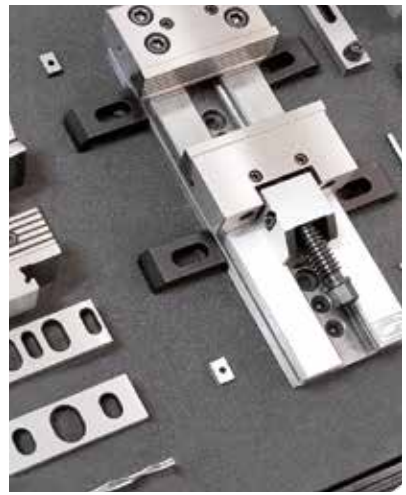
**Art. 981**

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

Cod. 0.98.10000

**All'Interno - Inside:**

|         |         |         |
|---------|---------|---------|
| Art.132 | Art.313 | Art.298 |
| Art.133 | Art.314 | Art.370 |
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## SIMBOLOGIA DATI TECNICI TECHNICAL DATA ICONS

|                                  |   |   |  |   |   |  |  |
|----------------------------------|---|---|--|---|---|--|--|
| GANASCE<br>JAWS                  |   |   |  |   |   |  |  |
|                                  | Fissa<br>Fixed                                      | Mobile<br>Movable   | Intermedia<br>Intermediate   | Fissa con piastra singola<br>Fixed with single plate            | Fissa con piastra doppia<br>Fixed with double plate | Ganasce sovrapponibili<br>Stack Type Jaws      |  |
| PIASTRE GANASCE<br>JAW PLATES    |   |   |  |   |   |  |  |
|                                  | Discendente<br>Pull down                            | Piana<br>Straight   | Cambio rapido manuale<br>Quick manual change                             | GRIP  | Inserti GRIP  |  |  |
| POSSIBILITÀ DI<br>POSSIBILITY OF |   |   |  |   |   |  |  |
|                                  | Serraggio di 1 particolare<br>Clamping only 1 piece | Serraggio di 2 particolari<br>Clamping 2 pieces                 | Montaggio sul fianco<br>o in serie<br>Side mounting or gang<br>operation | Posizionamento &<br>cambio rapido<br>Quick change & positioning | Cubi-morsa<br>Vise tower                            | Divisore Automatico<br>Automatic dividing head | Divisore Meccanico<br>Mechanical dividing head |
| PAGINE<br>PAGES                  |   |   |  |   |   |  |  |
|                                  | Accessori & Ricambi<br>Accessories & Spare<br>Parts | Istruzioni corretto utilizzo<br>Instruction for a proper<br>use | Diagrammi forze di<br>serraggio<br>Clamping force diagrams               | Sistema Idraulico<br>Hydraulic System                           |   |  |  |



# MORSE e CUBI serie STANDARD

## STANDARD series VISES and CUBES

**La Morsa più diffusa (ed imitata nel mondo). Il trinomio perfetto: Convenienza, Qualità, Versatilità**  
**The Most popular (and copied) vise in the world. The perfect mix: Price, Quality, Versatility**

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 ganaschia fissa, la perpendicolarità della ganaschia 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.

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.



### USURA INESISTENTE

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 60 ±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.

### NO WEAR

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 60 ±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.



### DESIGN COMPATTO E MANEGGEVOLEZZA

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 ganaschia) è tale da consentire un facile trasferimento da una macchina all'altra.

### SPACE SAVING DESIGN & HANDY

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.



### MODULARITÀ

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).

### MODULARITY

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).



### RAPIDITA' DEI SERRAGGI

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.

### QUICK CLAMPING

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.



## 1 VERSATILITA'

La **ganascia fissa con gradino posteriore di 5x5 mm** consente, una volta ruotata di 180°, il perfetto accoppiamento al gradino della ganascia 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.**

## 1 VERSATILITY

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 calmping range.**

## 2 PRECISIONI ± 0,02 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 (Ø16mm F7), a richiesta, previsti sulla base di ciascuna morsa. Naturalmente tutto ciò consente oltre alle precisioni dichiarate **tempi di installazione ristrettissimi.**

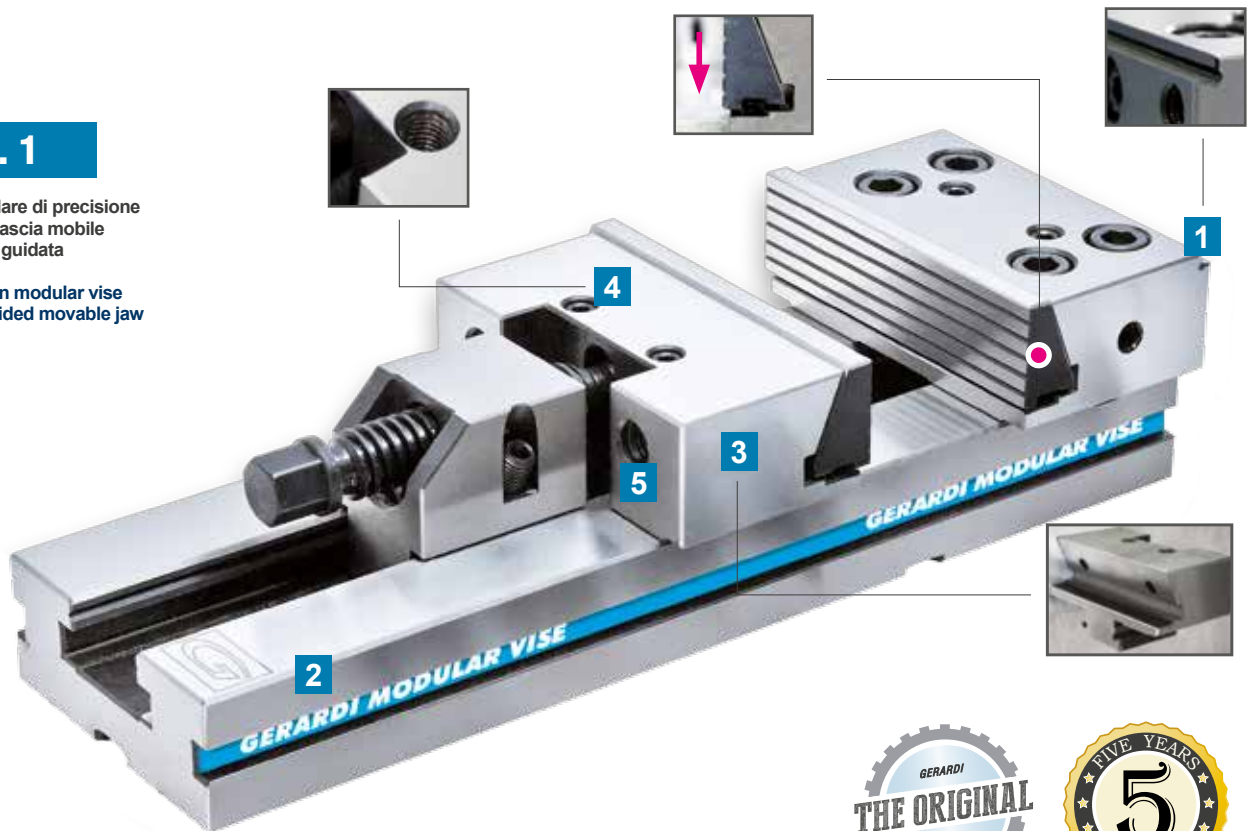
## 2 HIGHEST ACCURACIES ± 0,02 mm

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 (Ø16 mm F7), upon specific request, on the vise base. Of course this allows **minimum of set up times and gang operations.**

### Art. 1

Morsa modulare di precisione STD con ganascia mobile monoblocco guidata

STD precision modular vise with solid guided movable jaw



## 3 RIGIDITA' e SICUREZZA

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.

## 3 RIGIDITY and SAFETY

**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 ensure, during the clamping operation, a downward run of the workpiece against the vise base (by dragging) and thus a precise and safety clamping.

## 4 FORI GANASCIA PER APPLICAZIONI SPECIALI

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

## 4 JAW HOLES FOR SPECIAL APPLICATIONS

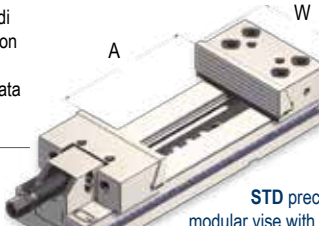
**4 extra tapped holes** over the jaws for special Gerardi stack type jaw application

## 5 INCREMENTO APERTURA MASSIMA

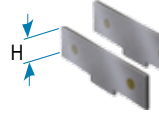
**Quattro fori filettati supplementari** e la parte posteriore di ciascuna ganascia rettificata permettono di incrementare la capacità di apertura di circa l'80% tramite il fissaggio di appositi elementi di prolunga (Art.132 e 133 da ordinare separatamente).

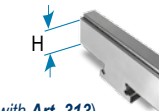
## 5 MAX OPENING INCREASE


**4 extra tapped holes** with ground back jaw rear face increase maximum opening capacity of about 80% with the addition of jaw extensions (Art.132 and 133 to be ordered separately).

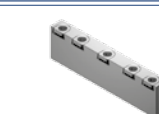
| Tipo (grandezza) morsa / Vise type (size)  | kN | 1<br>16 kN | 2<br>25 kN | 3<br>30 kN |            | 4<br>30 kN |            |            |            |
|--|----|------------|------------|------------|------------|------------|------------|------------|------------|
| Apertura massima / Maximum spread  | A  | 100        | 150        | 200        | 300        | 200        | 300        | 400        | 500        |
| <b>Art. 1</b><br>Morsa modulare di precisione STD con ganaschia mobile monoblocco guidata<br> | 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 |

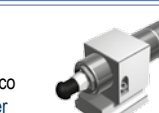
**AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !**


| <b>Art. 313</b><br>Piastra magnetica parallela piano<br>Magnetic parallel plates  | Cod. | 4.31.31000 | 4.31.32000 | 4.31.33000 | 4.31.34000 |
|---|------|------------|------------|------------|------------|
|  | H    | 23         | 33         | 43         | 53         |


| <b>Art. 212</b><br>Ganaschia mobile intermedia<br>(da usare con Art. 313)<br>Intermediate movable jaw (to be used with Art. 313) | Cod. | 1.21.21000 | 1.21.22000 | 1.21.23000 | 1.21.24000 |
|--|------|------------|------------|------------|------------|
|   | H    |            |            |            |            |

| <b>Art. 217</b><br>Ganaschia mobile prismatica<br>Prismatic movable jaw            | Cod. | 2.21.71000 | 2.21.72000 | 2.21.73000 | 2.21.74000 |
|--|------|------------|------------|------------|------------|
|  |      |            |            |            |            |

| <b>Art. 242G</b> <span style="color: red; font-weight: bold;">NEW!</span><br>Piastra ganaschia con inserti GRIP<br>Jaw plate with GRIP inserts | Cod. | 1.24.2G100 | 1.24.2G200 | 1.24.2G300 | 1.24.2G400 |
|--|------|------------|------------|------------|------------|
|   |      |            |            |            |            |

| <b>Art. 271</b><br>Supporto di serraggio con cilindro idraulico<br>Clamping support with hydraulic cylinder | Cod. | 2.27.11000 | 2.27.12000 | 2.27.13000 | 2.27.14000 |
|---|------|------------|------------|------------|------------|
|                          |      |            |            |            |            |

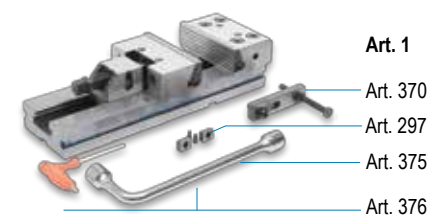
| <b>Art. 391</b><br>CNC / CNC   | Cod. | 4.39.11000 | 4.39.12000 | 4.39.13000 | 4.39.14000 |
|--|------|------------|------------|------------|------------|
|  |      |            |            |            |            |

| <b>Art. 392</b><br>Pneumatico / Air control  | Cod. | 4.39.21000 | 4.39.22000 | 4.39.23000 | 4.39.24000 |
|--|------|------------|------------|------------|------------|
|  |      |            |            |            |            |

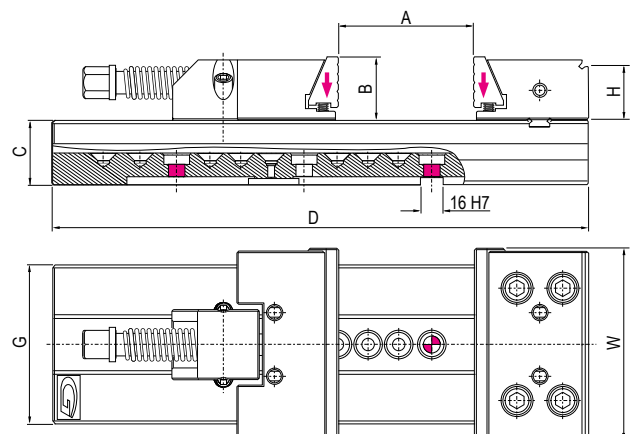
 Servocomandi oleopneumatici (completi di 1 cilindro e supporto) per serraggi multipli **contemporanei** o **indipendenti**, da 2 a 6 morse. Vedi da pag. 4.36 a 4.47

**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 pipa Art. 375 ■ 1 chiave a "T" Art. 376


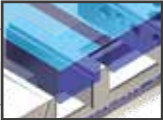
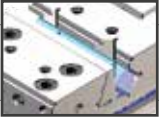



**Standard equipment:**

- 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 box wrench Art. 375 ■ 1 T-wrench Art. 376

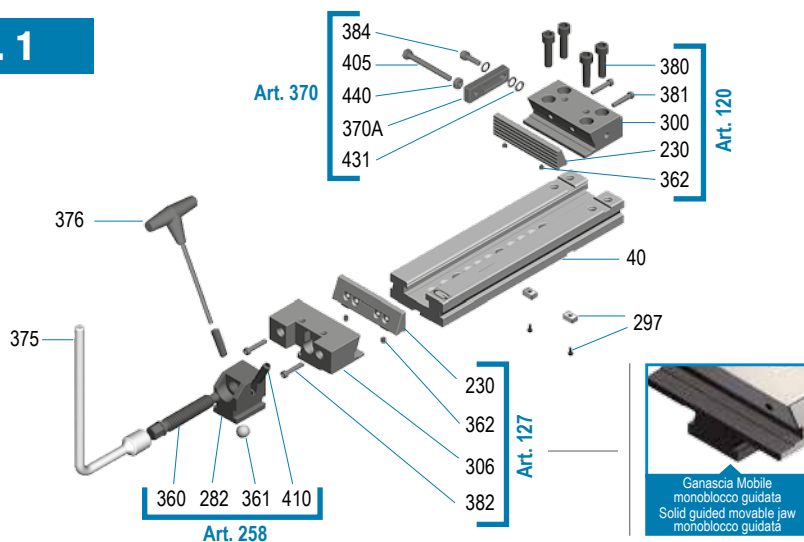

 Vedi gruppo 4 per gamma completa accessori  
 See group 4 for complete range of accessories

| 5<br>40 kN |            |            |            |            | 6<br>40 kN |            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 200        | 300        | 400        | 500        | 600        | 200        | 300        | 400        | 500        | 600        | 700        | 800        |
|            |            | 200        |            |            |            |            |            | 300        |            |            |            |
|            |            | 65         |            |            |            |            |            | 80         |            |            |            |
|            |            | 70         |            |            |            |            |            | 78         |            |            |            |
| 495        | 595        | 695        | 795        | 895        | 535        | 635        | 735        | 835        | 935        | 1035       | 1135       |
|            |            | 170        |            |            |            |            |            | 195        |            |            |            |
| 64         | 69         | 74         | 79         | 84         | 95         | 105        | 115        | 125        | 135        | 145        | 155        |
| 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 |

**UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !**

|           |            |   |            |
|-----------|------------|---|------------|
| Art. 313  | 4.31.35000 |    | 4.31.36000 |
|           | 53         |   | 68         |
| Art. 212  | 1.21.25000 |    | 1.21.26000 |
| Art. 217  | 2.21.75000 |   | 2.21.76000 |
| Art. 242G | 1.24.2G500 |  | 1.24.2G600 |
| Art. 271  | 2.27.15000 |  | 2.27.16000 |
| Art. 391  | 4.39.15000 |   | 4.39.16000 |
| Art. 392  | 4.39.25000 |   | 4.39.26000 |

 Pneumo-hydraulic servo units (complete of hydraulic cylinder + support) for multiple clamping *simultaneous* or *independent*, from 2 to 6 vises. See from page 4.36 to 4.47

**Art. 1**


| Art.        | Pag. | Art.       | Pag. |
|-------------|------|------------|------|
| <b>40</b>   | 1.22 | <b>376</b> | 4.31 |
| <b>230</b>  | 4.9  | <b>380</b> | 4.24 |
| <b>282</b>  | 4.32 | <b>381</b> | 4.24 |
| <b>297</b>  | 4.31 | <b>382</b> | 4.24 |
| <b>300</b>  | 4.25 | <b>384</b> | 4.24 |
| <b>306</b>  | 4.25 | <b>405</b> | 4.31 |
| <b>360</b>  | 4.32 | <b>410</b> | 4.32 |
| <b>361</b>  | 4.32 | <b>431</b> | 4.24 |
| <b>362</b>  | 4.24 | <b>440</b> | 4.24 |
| <b>370A</b> | 4.31 | -          | -    |
| <b>375</b>  | 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        |
| <b>Art. 1Z</b><br>Morsa STD con ganascia mobile monoblocco guidata per Zero Point | 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 |

Monoblocco - Solid

STD vise with guided solid movable jaw for Zero Point System

**AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !**

| <b>Art. 313</b><br>Piastrine magnetiche parallele piane<br>Magnetic parallel plates | Cod. | 4.31.31000 | 4.31.32000 | 4.31.33000 | 4.31.34000 |
|---|------|------------|------------|------------|------------|
|   | H    | 23         | 33         | 43         | 53         |

| <b>Art. 212</b><br>Ganascia mobile intermedia<br>(da usare con Art. 313)<br>Intermediate movable jaw (to be used with Art. 313) | Cod. | 1.21.21000 | 1.21.22000 | 1.21.23000 | 1.21.24000 |
|---|------|------------|------------|------------|------------|
|   | H    |            |            |            |            |

| <b>Art. 217</b><br>Ganascia mobile prismatica<br>Prismatic movable jaw | Cod. | 2.21.71000 | 2.21.72000 | 2.21.73000 | 2.21.74000 |
|--|------|------------|------------|------------|------------|
|  |      |            |            |            |            |

| <b>Art. 242G</b> <b>NEW!</b><br>Piastra ganascia con inserti GRIP<br>Jaw plate with GRIP inserts | Cod. | 1.24.2G100 | 1.24.2G200 | 1.24.2G300 | 1.24.2G400 |
|--|------|------------|------------|------------|------------|
|  |      |            |            |            |            |

| <b>Art. 271</b><br>Supporto di serraggio con cilindro idraulico<br>Clamping support with hydraulic cylinder | Cod. | 2.27.11000 | 2.27.12000 | 2.27.13000 | 2.27.14000 |
|---|------|------------|------------|------------|------------|
|   |      |            |            |            |            |

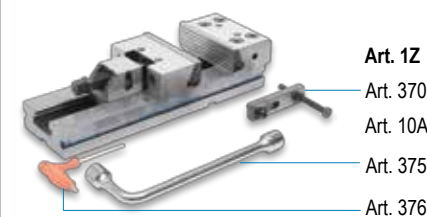
| <b>Art. 271</b><br>Art. 271 | Cod. | 4.39.11000 | 4.39.12000 | 4.39.13000 | 4.39.14000 |
|-----------------------------|------|------------|------------|------------|------------|
|                             |      |            |            |            |            |

| <b>Art. 391</b><br>CNC / CNC | Cod. | 4.39.21000 | 4.39.22000 | 4.39.23000 | 4.39.24000 |
|------------------------------|------|------------|------------|------------|------------|
|                              |      |            |            |            |            |

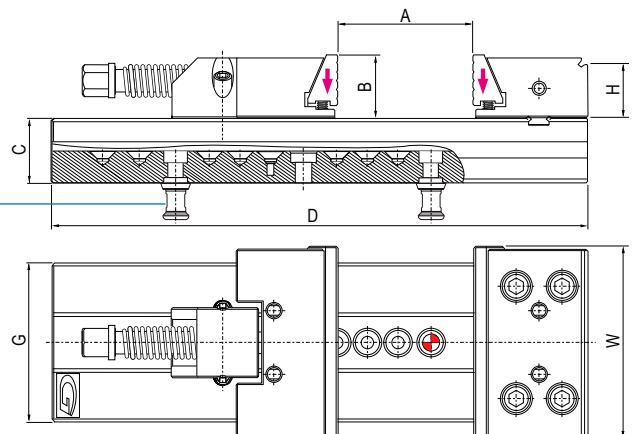
 Servocomandi oleopneumatici (completi di 1 cilindro e supporto) per serraggi multipli **contemporanei** o **indipendenti**, da 2 a 6 morse. Vedi da pag. 4.36 a 4.47

**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 workstop Art. 370
- 2 pullstuds Art. 10A
- 1 box wrench Art. 375
- 1 T-wrench Art. 376

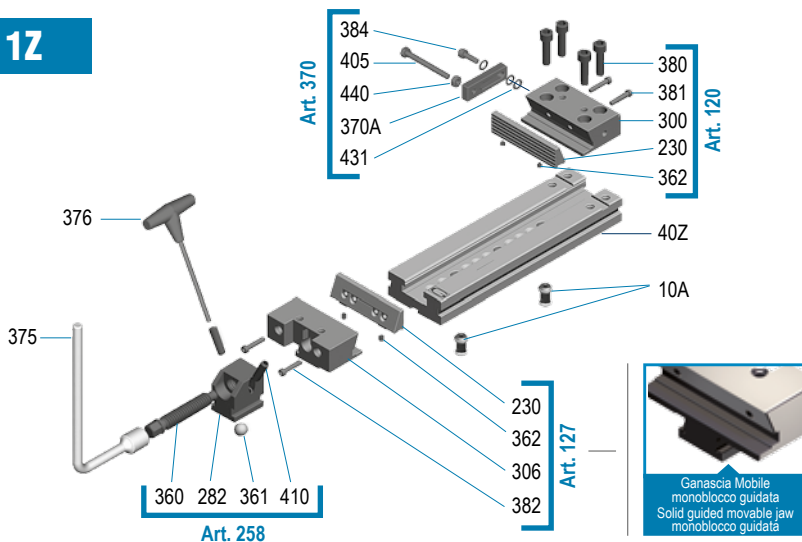

 Vedi gruppo 4 per gamma completa accessori  
 See group 4 for complete range of accessories

| 5<br>40 kN |            |            |            |            | 6<br>40 kN |            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 200        | 300        | 400        | 500        | 600        | 200        | 300        | 400        | 500        | 600        | 700        | 800        |
|            |            | 200        |            |            |            |            |            | 300        |            |            |            |
|            |            | 65         |            |            |            |            |            | 80         |            |            |            |
|            |            | 70         |            |            |            |            |            | 78         |            |            |            |
| 495        | 595        | 695        | 795        | 895        | 535        | 635        | 735        | 835        | 935        | 1035       | 1135       |
|            |            | 170        |            |            |            |            |            | 195        |            |            |            |
| 65.3       | 70.3       | 75.3       | 80.3       | 85.3       | 97         | 107        | 117        | 127        | 137        | 147        | 157        |
| 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 |

**UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !**

|           |            |   |            |
|-----------|------------|---|------------|
| Art. 313  | 4.31.35000 |    | 4.31.36000 |
|           | 53         |   | 68         |
| Art. 212  | 1.21.25000 |    | 1.21.26000 |
| Art. 217  | 2.21.75000 |   | 2.21.76000 |
| Art. 242G | 1.24.2G500 |  | 1.24.2G600 |
| Art. 271  | 2.27.15000 |  | 2.27.16000 |
| Art. 391  | 4.39.15000 |   | 4.39.16000 |
| Art. 392  | 4.39.25000 |   | 4.39.26000 |

 Pneumo-hydraulic servo units (complete of hydraulic cylinder + support) for multiple clamping *simultaneous* or *independent*, from 2 to 6 vises. See from page 4.36 to 4.47

**Art. 12**


| Art. | Pag. |
|------|------|
| 10A  | 9.31 |
| 40Z  | 1.22 |
| 230  | 4.9  |
| 282  | 4.32 |
| 300  | 4.25 |
| 306  | 4.25 |
| 360  | 4.32 |
| 361  | 4.31 |
| 362  | 4.24 |
| 370A | 4.31 |
| 375  | 4.31 |

| Art. | Pag. |
|------|------|
| 376  | 4.31 |
| 380  | 4.24 |
| 381  | 4.24 |
| 382  | 4.24 |
| 384  | 4.24 |
| 405  | 4.46 |
| 410  | 4.32 |
| 431  | 4.24 |
| 440  | 4.24 |
| -    | -    |
| -    | -    |

| Tipo (grandezza) morsa / Vise type (size)                      |  | 1     |            | 2          |            | 3          |            | 4          |            |            |
|--|--|-------|------------|------------|------------|------------|------------|------------|------------|------------|
| kN   |  | 16 kN |            | 25 kN      |            | 30 kN      |            | 30 kN      |            |            |
| Apertura massima / Maximum spread                              |  | A     | 100        | 150        | 200        | 300        | 200        | 300        | 400        | 500        |
| <b>Art. 12</b>   |  | W     | 75         | 95         | 125        |            | 145        |            |            |            |
| Morsa STD con ganasce ridotte rettificate. (Maggior Pressione) |  | B     | 30         | 40         | 50         |            | 60         |            |            |            |
|  |  | C     | 35         | 40         | 50         |            | 58         |            |            |            |
| STD vise with narrow width ground jaws (Higher Pressure)       |  | D     | 270        | 345        | 420        | 520        | 455        | 555        | 655        | 755        |
| Monoblocco - Solid   |  | 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 |

**AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !**

| <b>Art. 313R</b>   | Cod. | 4.31.3R100 | 4.31.3R200 | 4.31.3R300 | 4.31.3R400 |
|--|------|------------|------------|------------|------------|
| Piastrine magnetiche parallele piane<br>Magnetic parallel plates |      |            |            |            |            |
| H  |      | 23         | 33         | 43         | 53         |

| <b>Art. 213</b>  | Cod. | 1.21.31000 | 1.21.32000 | 1.21.33000 | 1.21.34000 |
|--|------|------------|------------|------------|------------|
| Ganascia mobile intermedia<br>(da usare con Art. 313R)<br>Intermediate movable jaw (to be used with Art. 313R) |      |            |            |            |            |
| H  |      |            |            |            |            |

| <b>Art. 218</b>                                     | Cod. | 2.21.81000 | 2.21.82000 | 2.21.83000 | 2.21.84000 |
|---|------|------------|------------|------------|------------|
| Ganascia mobile prismatica<br>Prismatic movable jaw |      |            |            |            |            |

| <b>Art. 243G</b>  | Cod. | 1.24.3G100 | 1.24.3G200 | 1.24.3G300 | 1.24.3G400 |
|---|------|------------|------------|------------|------------|
| Piastra ganascia ridotta con inserti GRIP<br>Narrow width jaw plate with GRIP inserts |      |            |            |            |            |

| <b>Art. 271</b>  | Cod. | 2.27.11000 | 2.27.12000 | 2.27.13000 | 2.27.14000 |
|--|------|------------|------------|------------|------------|
| Supporto di serraggio con cilindro idraulico<br>Clamping support with hydraulic cylinder |      |            |            |            |            |

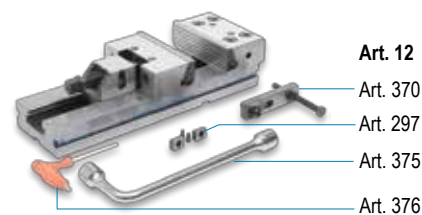
| <b>Art. 391</b> | Cod. | 4.39.11000 | 4.39.12000 | 4.39.13000 | 4.39.14000 |
|-----------------|------|------------|------------|------------|------------|
| CNC / CNC       |      |            |            |            |            |

| <b>Art. 392</b>          | Cod. | 4.39.21000 | 4.39.22000 | 4.39.23000 | 4.39.24000 |
|--------------------------|------|------------|------------|------------|------------|
| Pneumatico / Air control |      |            |            |            |            |

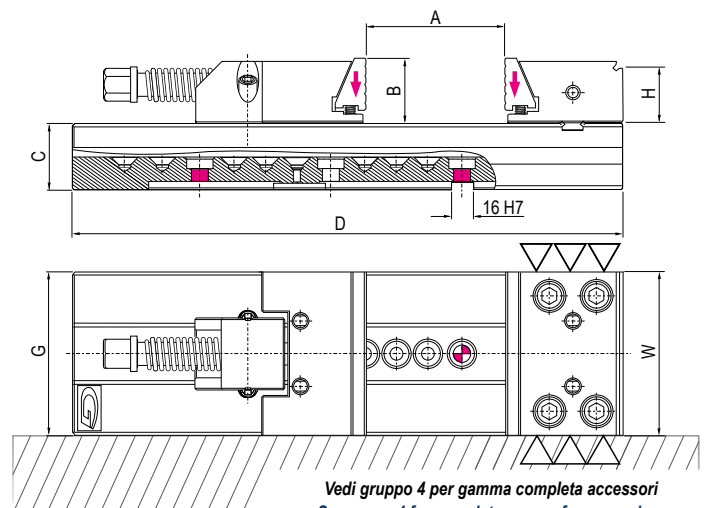
 Servocomandi oleopneumatici (completi di 1 cilindro e supporto) per serraggi multipli **contemporanei** o **indipendenti**, da 2 a 6 morse. Vedi da pag. 4.36 a 4.47

**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 pipa Art. 375 ■ 1 chiave a "T" Art. 376


**Standard equipment:**

- 1 workshop Art. 370
- 1 pair of positioning key-nuts Art. 297  
(Standard for 16 mm slot. Other dimensions available on request without price change)
- 1 box wrench Art. 375 ■ 1 T-wrench Art. 376


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

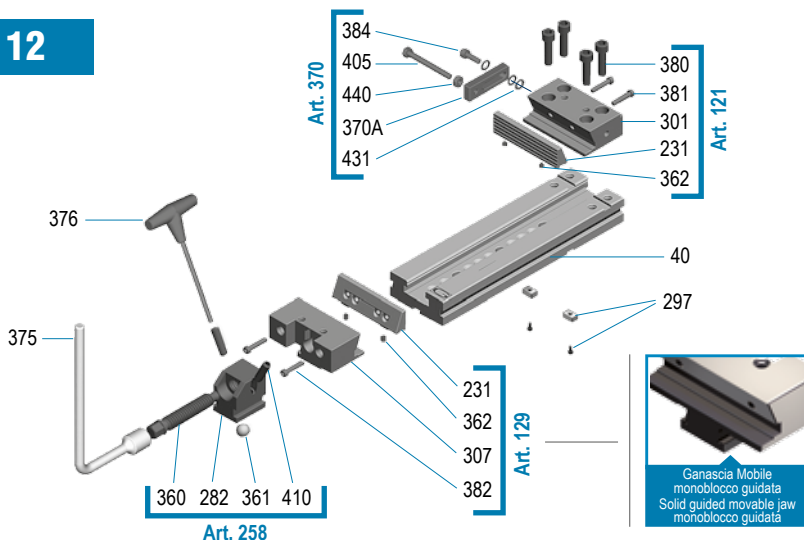


| 5<br>40 kN |            |            |            |            | 6<br>40 kN |            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 200        | 300        | 400        | 500        | 600        | 200        | 300        | 400        | 500        | 600        | 700        | 800        |
|            |            | 170        |            |            |            |            |            | 195        |            |            |            |
|            |            | 65         |            |            |            |            |            | 80         |            |            |            |
|            |            | 70         |            |            |            |            |            | 78         |            |            |            |
| 495        | 595        | 695        | 795        | 895        | 535        | 635        | 735        | 835        | 935        | 1035       | 1135       |
|            |            | 170        |            |            |            |            |            | 195        |            |            |            |
| 62         | 67         | 72         | 77         | 82         | 88         | 98         | 108        | 118        | 128        | 138        | 148        |
| 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 |

**UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !**

|                  |            |   |            |
|------------------|------------|---|------------|
| <b>Art. 313R</b> | 4.31.3R500 |    | 4.31.3R600 |
|                  | 53         |   | 68         |
| <b>Art. 213</b>  | 1.21.35000 |    | 1.21.36000 |
| <b>Art. 218</b>  | 2.21.85000 |   | 2.21.86000 |
| <b>Art. 243G</b> | 1.24.3G500 |  | 1.24.3G600 |
| <b>Art. 271</b>  | 2.27.15000 |  | 2.27.16000 |
| <b>Art. 391</b>  | 4.39.15000 |   | 4.39.16000 |
| <b>Art. 392</b>  | 4.39.25000 |   | 4.39.26000 |

 Pneumo-hydraulic servo units (complete of hydraulic cylinder + support) for multiple clamping *simultaneous* or *independent*, from 2 to 6 vises. See from page 4.36 to 4.47

**Art. 12**


| Art.        | Pag. | Art.       | Pag. |
|-------------|------|------------|------|
| <b>40</b>   | 1.22 | <b>376</b> | 4.31 |
| <b>231</b>  | 4.9  | <b>380</b> | 4.24 |
| <b>282</b>  | 4.32 | <b>381</b> | 4.24 |
| <b>297</b>  | 4.31 | <b>382</b> | 4.24 |
| <b>301</b>  | 4.25 | <b>384</b> | 4.41 |
| <b>307</b>  | 4.25 | <b>405</b> | 4.46 |
| <b>360</b>  | 4.32 | <b>410</b> | 4.32 |
| <b>361</b>  | 4.32 | <b>431</b> | 4.24 |
| <b>362</b>  | 4.24 | <b>440</b> | 4.24 |
| <b>370A</b> | 4.31 | -          | -    |
| <b>375</b>  | 4.31 | -          | -    |

| Tipo (grandezza) morsa / Vise type (size)                   | kN   | 1<br>16 kN | 2<br>25 kN | 3<br>30 kN |            | 4<br>30 kN |            |            |            |
|---|------|------------|------------|------------|------------|------------|------------|------------|------------|
| Apertura massima / Maximum spread                           | A    | 100        | 150        | 200        | 300        | 200        | 300        | 400        | 500        |
| <b>Art. 14</b><br>Morsa STD con ganasce a piastre piane<br> | 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 |
|   |      |            |            |            |            |            |            |            |            |
|   |      |            |            |            |            |            |            |            |            |
|   |      |            |            |            |            |            |            |            |            |

**AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !**

| Art. 313  | Cod. | 4.31.31000 | 4.31.32000 | 4.31.33000 | 4.31.34000 |
|---|------|------------|------------|------------|------------|
| <b>Art. 313</b><br>Piastre magnetiche parallele piane<br>Magnetic parallel plates<br> | H    | 23         | 33         | 43         | 53         |
|   |      |            |            |            |            |

| Art. 212   | Cod. | 1.21.21000 | 1.21.22000 | 1.21.23000 | 1.21.24000 |
|--|------|------------|------------|------------|------------|
| <b>Art. 212</b><br>Ganasce mobile intermedia<br>(da usare con Art. 313)<br>Intermediate movable jaw (to be used with Art. 313)<br> | H    |            |            |            |            |
|  |      |            |            |            |            |

| Art. 246  | Cod. | 1.65.16200 | 1.65.26200 | 1.65.36200 | 1.65.46200 |
|---|------|------------|------------|------------|------------|
| <b>Art. 246</b><br>Piastra piana in acciaio lavorabile<br>Machinable steel straight jaw plate<br> |      |            |            |            |            |
|   |      |            |            |            |            |

| Art. 246G  | Cod. | 1.24.6G100 | 1.24.6G200 | 1.24.6G300 | 1.24.6G400 |
|--|------|------------|------------|------------|------------|
| <b>Art. 246G</b> <b>NEW!</b><br>Piastra piana con inserti GRIP<br>Straight jaw plate with GRIP inserts<br> |      |            |            |            |            |
|  |      |            |            |            |            |

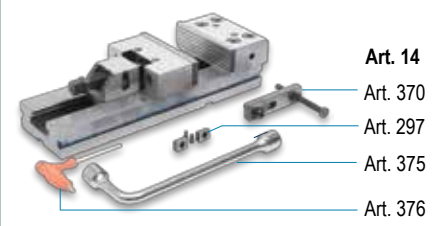
| Art. 271  | Cod. | 2.27.11000 | 2.27.12000 | 2.27.13000 | 2.27.14000 |
|---|------|------------|------------|------------|------------|
| <b>Art. 271</b><br>Supporto di serraggio con cilindro idraulico<br>Clamping support with hydraulic cylinder<br> |      |            |            |            |            |
|   |      |            |            |            |            |

| Art. 391                         | Cod. | 4.39.11000 | 4.39.12000 | 4.39.13000 | 4.39.14000 |
|----------------------------------|------|------------|------------|------------|------------|
| <b>Art. 391</b><br>CNC / CNC<br> |      |            |            |            |            |
|                                  |      |            |            |            |            |

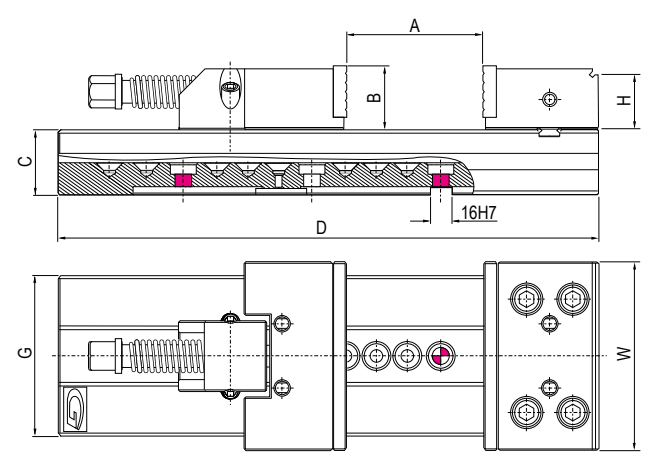
| Art. 392  | Cod. | 4.39.21000 | 4.39.22000 | 4.39.23000 | 4.39.24000 |
|---|------|------------|------------|------------|------------|
| <b>Art. 392</b><br>Pneumatico / Air control<br> |      |            |            |            |            |
|   |      |            |            |            |            |

 Servocomandi oleopneumatici (completi di 1 cilindro e supporto) per serraggi multipli **contemporanei** o **indipendenti**, da 2 a 6 morse. Vedi da pag. 4.36 a 4.47

- 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 pipa Art. 375 ■ 1 chiave a "T" Art. 376
- Extra per ogni foro calibrato (tolleranza F7): € 85,00



- 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 box wrench Art. 375 ■ 1 T-wrench Art. 376
- Extra charge for each calibrated hole (F7 tolerance): € 85,00

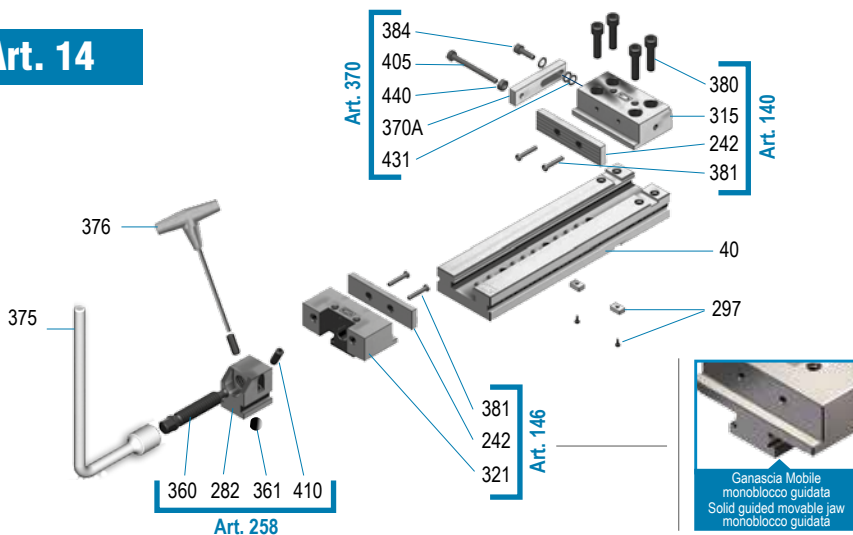

 Vedi gruppo 4 per gamma completa accessori  
 See group 4 for complete range of accessories

| 5<br>40 kN |            |            |            |            | 6<br>40 kN |            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 200        | 300        | 400        | 500        | 600        | 200        | 300        | 400        | 500        | 600        | 700        | 800        |
|            |            | 200        |            |            |            |            |            | 300        |            |            |            |
|            |            | 65         |            |            |            |            |            | 80         |            |            |            |
|            |            | 70         |            |            |            |            |            | 78         |            |            |            |
| 495        | 595        | 695        | 795        | 895        | 535        | 635        | 735        | 835        | 935        | 1035       | 1135       |
|            |            | 170        |            |            |            |            |            | 195        |            |            |            |
| 64         | 69         | 74         | 79         | 84         | 95         | 105        | 115        | 125        | 135        | 145        | 155        |
| 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 |

**UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !**

|           |            |   |            |
|-----------|------------|---|------------|
| Art. 313  | 4.31.35000 |    | 4.31.36000 |
|           | 53         |   | 68         |
| Art. 212  | 1.21.25000 |    | 1.21.26000 |
| Art. 246  | 1.65.56200 |   | 1.65.66200 |
| Art. 246G | 1.24.6G500 |  | 1.24.6G600 |
| Art. 271  | 2.27.15000 |  | 2.27.16000 |
| Art. 391  | 4.39.15000 |   | 4.39.16000 |
| Art. 392  | 4.39.25000 |   | 4.39.26000 |

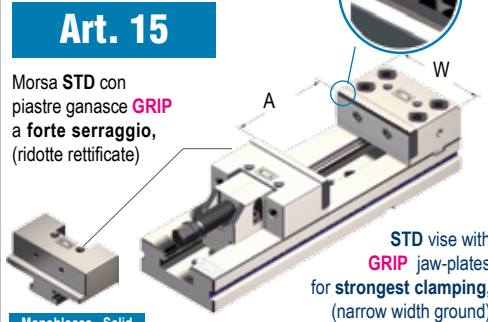
 Pneumo-hydraulic servo units (complete of hydraulic cylinder + support) for multiple clamping *simultaneous* or *independent*, from 2 to 6 vises. See from page 4.36 to 4.47

**Art. 14**


| Art.        | Pag. | Art.       | Pag. |
|-------------|------|------------|------|
| <b>40</b>   | 1.22 | <b>380</b> | 4.24 |
| <b>242</b>  | 4.11 | <b>381</b> | 4.24 |
| <b>282</b>  | 4.32 | <b>384</b> | 4.24 |
| <b>297</b>  | 4.31 | <b>405</b> | 4.46 |
| <b>315</b>  | 4.26 | <b>410</b> | 4.32 |
| <b>321</b>  | 4.26 | <b>431</b> | 4.24 |
| <b>360</b>  | 4.32 | <b>440</b> | 4.24 |
| <b>361</b>  | 4.32 | -          | -    |
| <b>370A</b> | 4.31 | -          | -    |
| <b>375</b>  | 4.31 | -          | -    |
| <b>376</b>  | 4.31 | -          | -    |



| Tipo (grandezza) morsa / Vise type (size) | kN   | 1<br>16 kN | 2<br>25 kN | 3<br>30 kN |            | 4<br>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 |


**AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !**

| Art. 313R  | Cod. | 4.31.3R100 | 4.31.3R200 | 4.31.3R300 | 4.31.3R400 |
|--|------|------------|------------|------------|------------|
| Piastre magnetiche parallele piane<br>Magnetic parallel plates | H    | 23         | 33         | 43         | 53         |

| Art. 247  | Cod. | 1.65.17200 | 1.65.27200 | 1.65.37200 | 1.65.47200 |
|---|------|------------|------------|------------|------------|
| Piastra piana ridotta in acciaio lavorabile<br>Machinable steel narrow width straight jaw plate |      |            |            |            |            |

| Art. 218  | Cod. | 2.21.81000 | 2.21.82000 | 2.21.83000 | 2.21.84000 |
|---|------|------------|------------|------------|------------|
| Ganascia mobile prismatica<br>Prismatic movable jaw |      |            |            |            |            |

| Art. 247G   | Cod. | 1.24.7G100 | 1.24.7G200 | 1.24.7G300 | 1.24.7G400 |
|---|------|------------|------------|------------|------------|
| Piastra piana ridotta con inserti GRIP<br>Narrow width straight jaw plate with GRIP inserts |      |            |            |            |            |

| Art. 271   | Cod. | 2.27.11000 | 2.27.12000 | 2.27.13000 | 2.27.14000 |
|--|------|------------|------------|------------|------------|
| Supporto di serraggio con cilindro idraulico<br>Clamping support with hydraulic cylinder |      |            |            |            |            |

| Art. 271 | Cod. | 4.39.11000 | 4.39.12000 | 4.39.13000 | 4.39.14000 |
|----------|------|------------|------------|------------|------------|
| Art. 271 |      |            |            |            |            |

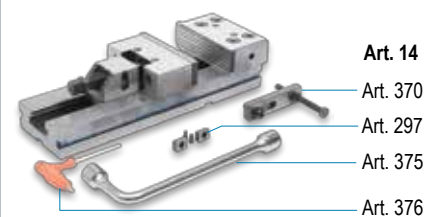
| Art. 391              | Cod. | 4.39.21000 | 4.39.22000 | 4.39.23000 | 4.39.24000 |
|-----------------------|------|------------|------------|------------|------------|
| Art. 391<br>CNC / CNC |      |            |            |            |            |

| Art. 392                             | Cod. | 4.39.21000 | 4.39.22000 | 4.39.23000 | 4.39.24000 |
|--------------------------------------|------|------------|------------|------------|------------|
| Art. 392<br>Pneumatico / Air control |      |            |            |            |            |

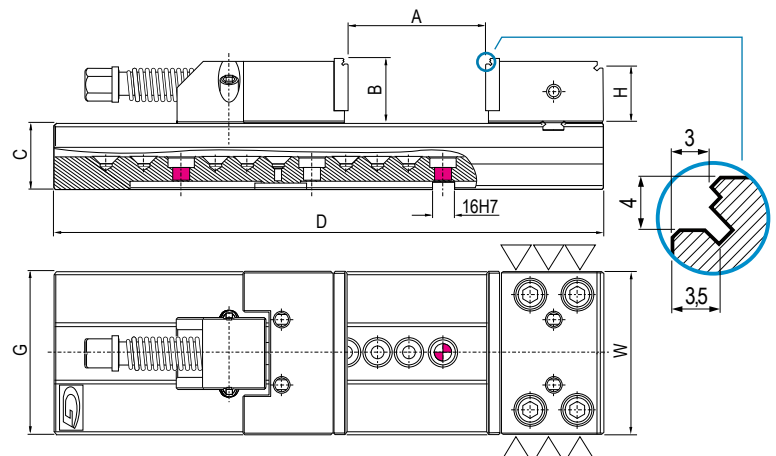
 Servocomandi oleopneumatici (completi di 1 cilindro e supporto) per serraggi multipli **contemporanei** o **indipendenti**, da 2 a 6 morse. Vedi da pag. 4.36 a 4.47

**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 pipa Art. 375 ■ 1 chiave a "T" 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 box wrench Art. 375 ■ 1 T-wrench Art. 376

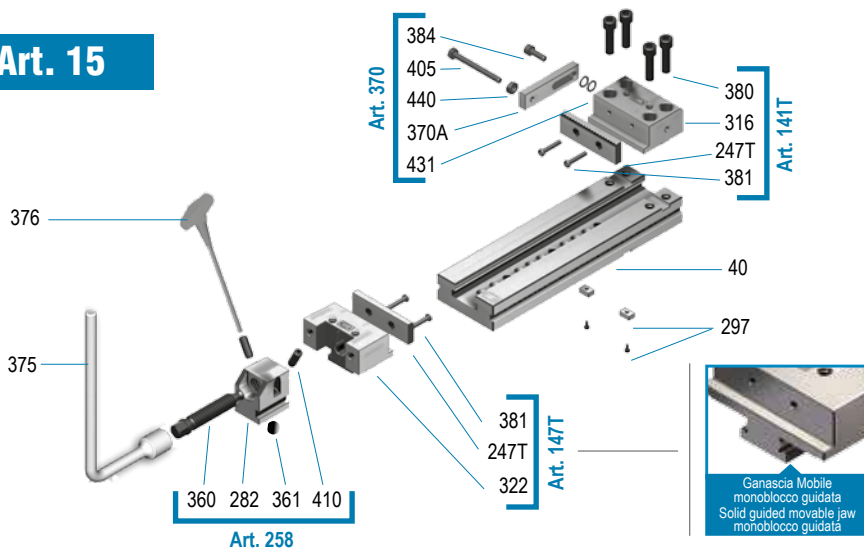

 Vedi gruppo 4 per gamma completa accessori  
 See group 4 for complete range of accessories

| 5<br>40 kN |            |            |            |            | 6<br>40 kN |            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 200        | 300        | 400        | 500        | 600        | 200        | 300        | 400        | 500        | 600        | 700        | 800        |
|            |            | 170        |            |            |            |            |            | 195        |            |            |            |
|            |            | 65         |            |            |            |            |            | 80         |            |            |            |
|            |            | 70         |            |            |            |            |            | 78         |            |            |            |
| 495        | 595        | 695        | 795        | 895        | 535        | 635        | 735        | 835        | 935        | 1035       | 1135       |
|            |            | 170        |            |            |            |            |            | 195        |            |            |            |
| 62         | 67         | 72         | 77         | 82         | 88         | 98         | 108        | 118        | 128        | 138        | 148        |
| 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 |

**UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !**

|                  |            |   |            |
|------------------|------------|---|------------|
| <b>Art. 313R</b> | 4.31.3R500 |    | 4.31.3R600 |
|                  | 53         |   | 68         |
| <b>Art. 247</b>  | 1.65.57200 |    | 1.65.67200 |
| <b>Art. 218</b>  | 2.21.85000 |   | 2.21.86000 |
| <b>Art. 247G</b> | 1.24.7G500 |  | 1.24.7G600 |
| <b>Art. 271</b>  | 2.27.15000 |  | 2.27.16000 |
| <b>Art. 391</b>  | 4.39.15000 |   | 4.39.16000 |
| <b>Art. 392</b>  | 4.39.25000 |   | 4.39.26000 |

 Pneumo-hydraulic servo units (complete of hydraulic cylinder + support) for multiple clamping *simultaneous* or *independent*, from 2 to 6 vises. See from page 4.36 to 4.47

**Art. 15**


| Art.        | Pag. | Art.       | Pag. |
|-------------|------|------------|------|
| <b>40</b>   | 1.22 | <b>380</b> | 4.24 |
| <b>247T</b> | 4.11 | <b>381</b> | 4.24 |
| <b>282</b>  | 4.32 | <b>384</b> | 4.24 |
| <b>297</b>  | 4.31 | <b>405</b> | 4.46 |
| <b>316</b>  | 4.26 | <b>410</b> | 4.32 |
| <b>322</b>  | 4.26 | <b>431</b> | 4.24 |
| <b>360</b>  | 4.32 | <b>440</b> | 4.24 |
| <b>361</b>  | 4.32 | -          | -    |
| <b>370A</b> | 4.31 | -          | -    |
| <b>375</b>  | 4.31 | -          | -    |
| <b>376</b>  | 4.31 | -          | -    |

# MORSE e CUBI serie StandardFLEX

## StandardFLEX series VISES and CUBES

**La Morsa più Evoluta! Dotata del geniale sistema a pettine per la rapida sostituzione delle piastre ganasce discendenti**  
**The Most Recent Vise! Innovative comb system for quick pull-down jaw plate change**

Le morse **GERARDI** della serie **Standardflex** sono un'evoluzione della morsa Standard STD. 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 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** 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!!!).

### 1 ALTISSIMA RIPETIBILITÀ DI POSIZIONAMENTO

con particolari perfettamente in squadra

### 1 HIGHEST REPOSITIONING ACCURACY

with perfect square workpieces.

### 2 RICONFIGURAZIONE RAPIDISSIMA

grazie alla piastra ganascia intercambiabile manualmente

### 2 GREAT SAVINGS IN VISE RESETTING TIMES

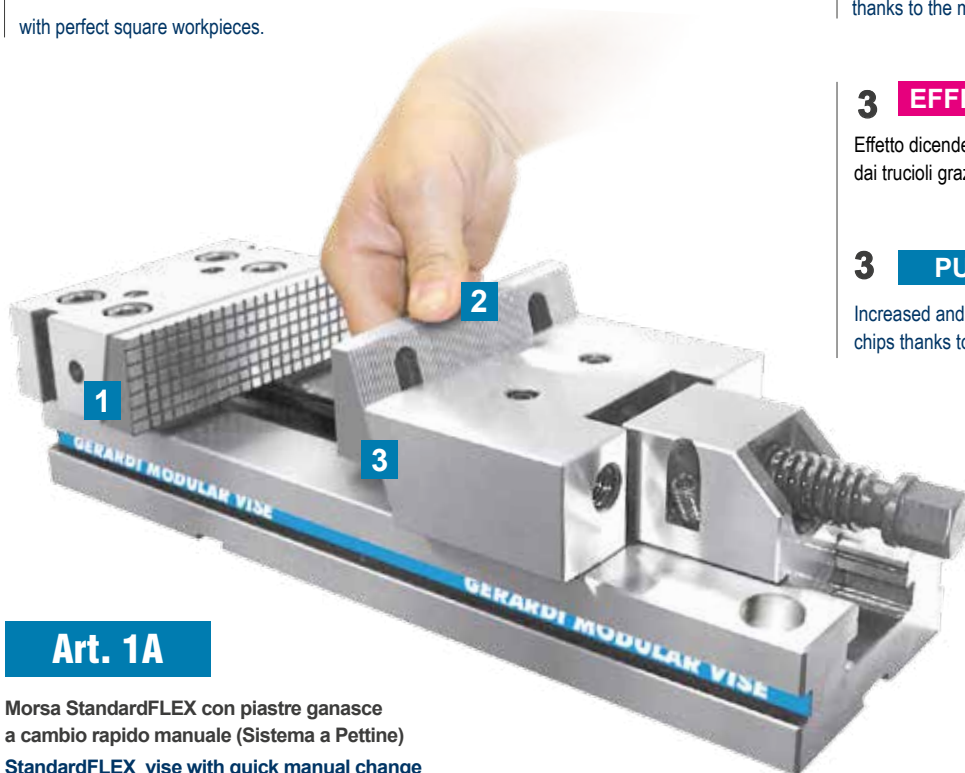
thanks to the manual interchangeable quick jaw plate

### 3 EFFETTO DISCENDENTE

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

### 3 PULL DOWN ACTION

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



## Art. 1A

Morsa StandardFLEX con piastre ganasce a cambio rapido manuale (Sistema a Pettine)  
 StandardFLEX vise with quick manual change jaw plates (Comb system)

### CARATTERISTICHE E VANTAGGI

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

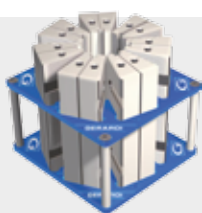
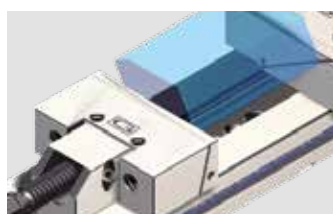
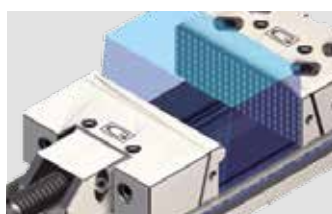
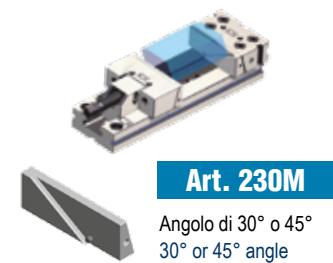
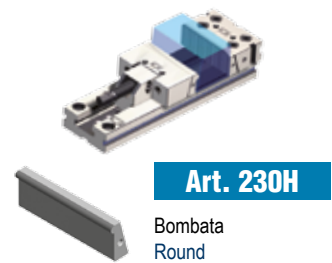
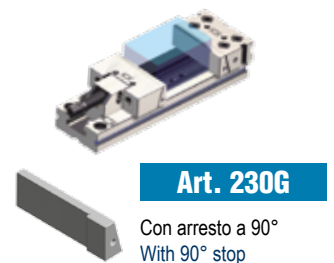
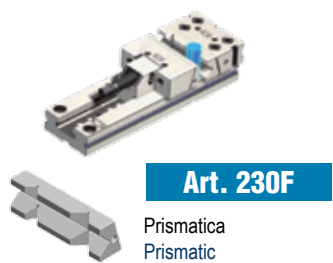
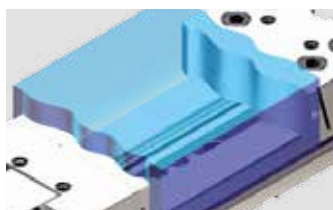
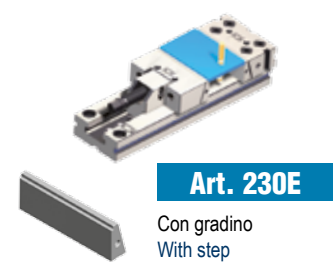
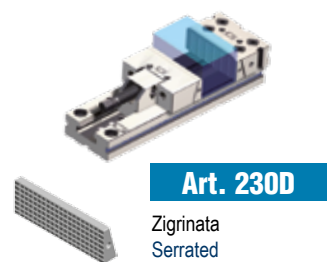
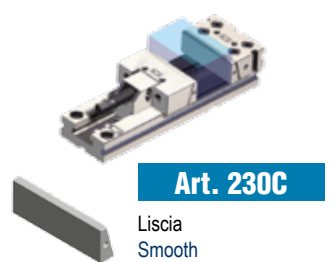
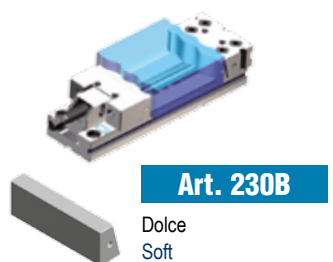
Si rimanda a quanto esposto a pag. 1.4 e 1.5 (morse serie STANDARD)

### TECHNICAL FEATURES and ADVANTAGES

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

See pag. 1.4 and 1.5 (STANDARD series vises)

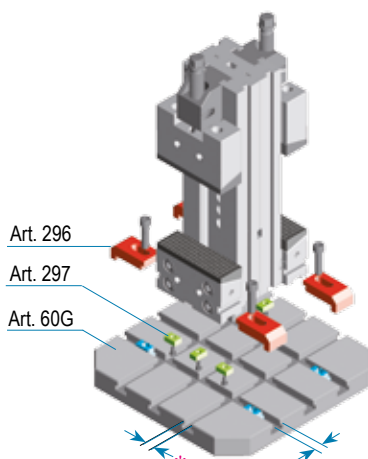
# PIASTRE GANASCE DISCENDENTI INTERCAMBIABILI MANUALMENTE PULL DOWN JAW PLATES INTERCHANGEABLE by HAND



## PORTAPIASTRE / THE RACK

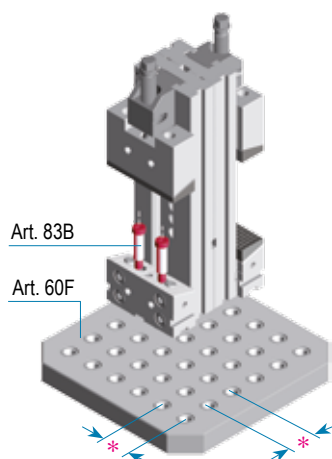
Completo di piastre ganasce a cambio rapido a gradino Art.230E  
Complete of quick change step jaw plates Art.230E

Vedi Pag. 4.18 - See Page.4.18



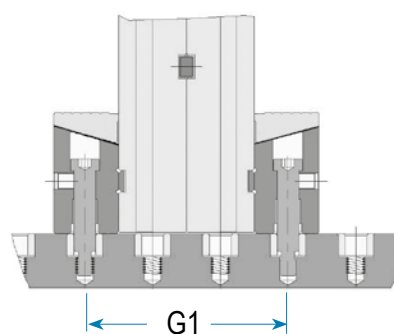
\* Cava / T slot = 16 mm

Ancoraggio e posizionamento con staffe e chiavette  
Positioning and clamping through vise clamps



\* Passo / Pitch = 50 mm

Ancoraggio e posizionamento a reticolo  
Grid clamping and positioning



| Tipo morsa / Vise type | 3   | 4   | 5   | 6 |
|------------------------|-----|-----|-----|---|
| G1 mm                  | 150 | 200 | 250 |   |

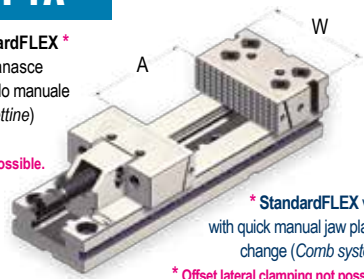
Esempio di montaggio in verticale di 2 morse  
StandardFLEX contrapposte su piani a reticolo  
Ø 16 mm. Passo 50 mm

Example of version mounting of 2 StandardFLEX vises back  
to back on grid base Ø 16 mm. 50 mm Pitch



| Tipo (grandezza) morsa / Vise type (size) | kN   | 1<br>16 kN | 2<br>25 kN | 3<br>30 kN | 4<br>30 kN |            |            |            |            |
|---|------|------------|------------|------------|------------|------------|------------|------------|------------|
| Apertura massima / Maximum spread         | A    | 100        | 150        | 200        | 300        | 200        | 300        | 400        | 500        |
| <b>Art. 1A</b>                            | 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 |

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

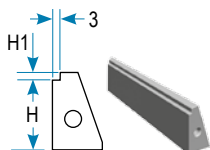


\* **StandardFLEX** vise  
 with quick manual jaw plates  
 change (Comb system)  
 \* Offset lateral clamping not possible

### AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

#### Art. 230E

Piastra ganasce intercambiabile  
 Interchangeable jaw plate



| Cod. | 4.23.0E101 | 4.23.0E201 | 4.23.0E301 | 4.23.0E401 |
|------|------------|------------|------------|------------|
| H    | 23         | 33         | 43         | 53         |
| H1   | 5          | 5          | 5          | 5          |

#### Art. 212

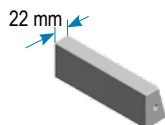
Ganascia mobile intermedia  
 (da usare con Art. 230E)  
 Intermediate movable jaw (to be used with Art. 230E)



| Cod. | 1.21.21000 | 1.21.22000 | 1.21.23000 | 1.21.24000 |
|------|------------|------------|------------|------------|
|      |            |            |            |            |

#### Art. 230B

Piastra ganasce intercambiabile dolce  
 Soft interchangeable jaw plate



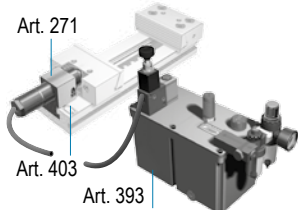
| Cod. | 4.23.0B101 | 4.23.0B201 | 4.23.0B301 | 4.23.0B401 |
|------|------------|------------|------------|------------|
|      |            |            |            |            |

#### Art. 230F

Piastra ganasce intercambiabile prismatica  
 Prismatic interchangeable jaw plate



| Cod. | 4.23.0F101 | 4.23.0F201 | 4.23.0F301 | 4.23.0F401 |
|------|------------|------------|------------|------------|
|      |            |            |            |            |



#### Art. 391

CNC / CNC

#### Art. 392

Pneumatico / Air control

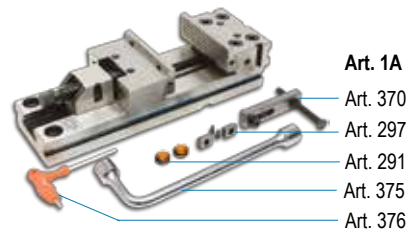
| Cod. | 4.39.11000 | 4.39.12000 | 4.39.13000 | 4.39.14000 |
|------|------------|------------|------------|------------|
|      |            |            |            |            |
| Cod. | 4.39.21000 | 4.39.22000 | 4.39.23000 | 4.39.24000 |
|      |            |            |            |            |

Servocomandi oleopneumatici (completi di 1 cilindro e supporto) per serraggi multipli **contemporanei** o **indipendenti**, da 2 a 6 morse. Vedi da pag. 4.36 a 4.47

#### 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)
- 2 tappi Art. 291 ■ 1 chiave a pipa Art. 375 ■ 1 chiave a "T" Art. 376

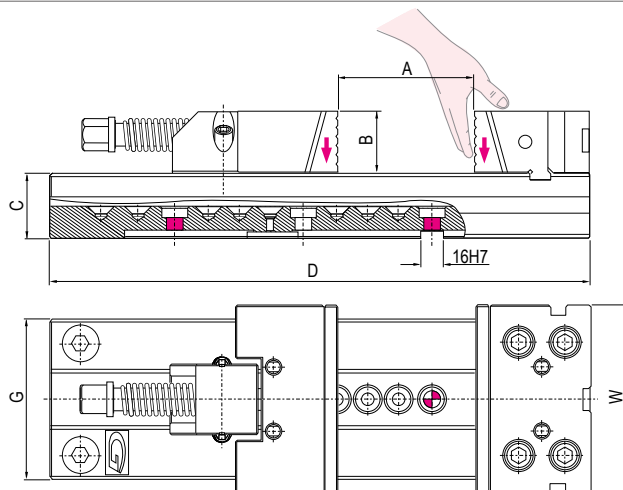
Fori rettificati e calibrati con tolleranza F7 già inclusi nel prezzo



#### Standard equipment:

- 1 workshop Art. 370
- 1 pair of positioning key-nuts Art. 297  
 (Standard for 16 mm slot. Other dimensions available on request without price change)
- 2 inserts Art. 291 ■ 1 box wrench Art. 375 ■ 1 T-wrench Art. 376

Ground calibrated holes F7 tolerance already included in the price





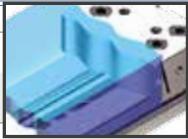

Vedi gruppo 4 per gamma completa accessori  
 See group 4 for complete range of accessories





| 5<br>40 kN |            |            |            |            | 6<br>40 kN |            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 200        | 300        | 400        | 500        | 600        | 200        | 300        | 400        | 500        | 600        | 700        | 800        |
|            |            | 196        |            |            |            |            |            | 296        |            |            |            |
|            |            | 63         |            |            |            |            |            | 78         |            |            |            |
|            |            | 70         |            |            |            |            |            | 78         |            |            |            |
| 495        | 595        | 695        | 795        | 895        | 535        | 635        | 735        | 835        | 935        | 1035       | 1135       |
|            |            | 170        |            |            |            |            |            | 195        |            |            |            |
| 64         | 69         | 74         | 79         | 84         | 95         | 105        | 115        | 125        | 135        | 145        | 155        |
| 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 |

**UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !**

|                  |            |   |            |
|------------------|------------|---|------------|
|                  | 4.23.0E501 |    | 4.23.0E601 |
| <b>Art. 230E</b> |            |   |            |
| H                | 53         |   | 68         |
| H1               | 10         |   | 10         |
|                  | 1.21.25000 |    | 1.21.26000 |
| <b>Art. 212</b>  |            |   |            |
|                  | 4.23.0B501 |   | 4.23.0B601 |
| <b>Art. 230B</b> |            |   |            |
|                  | 4.23.0F501 |  | 4.23.0F601 |
| <b>Art. 230F</b> |            |   |            |
|                  | 4.39.15000 |   | 4.39.16000 |
| <b>Art. 391</b>  |            |   |            |
|                  | 4.39.25000 |   | 4.39.26000 |
| <b>Art. 392</b>  |            |   |            |

 Pneumo-hydraulic servo units (complete of hydraulic cylinder + support) for multiple clamping *simultaneous* or *independent*, from 2 to 6 vises. See from page 4.36 to 4.47

**Art. 1A**

Art. 127A: 801I, 306A, 605G3, 230D, 306B, 605G2, 605G1

Art. 370: 405, 384, 431, 440, 370A

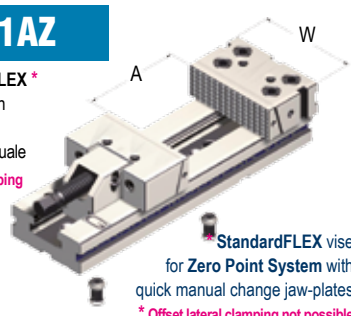
Art. 120A: 380, 300A, 605G3, 605G2, 605G1, 230D, 40A, 297

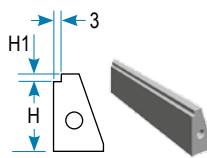
Art. 258: 410, 282, 361, 360

Other labels: 376, 375, 291

| Art.        | Pag. | Art.         | Pag. |
|-------------|------|--------------|------|
| <b>40A</b>  | 1.22 | <b>376</b>   | 4.31 |
| <b>230D</b> | 4.17 | <b>380</b>   | 4.24 |
| <b>282</b>  | 4.32 | <b>384</b>   | 4.24 |
| <b>291</b>  | 4.31 | <b>405</b>   | 4.46 |
| <b>297</b>  | 4.31 | <b>410</b>   | 4.32 |
| <b>300A</b> | 4.26 | <b>431</b>   | 4.24 |
| <b>306A</b> | 4.26 | <b>440</b>   | 4.24 |
| <b>306B</b> | 4.26 | <b>605G1</b> | 6.33 |
| <b>360</b>  | 4.32 | <b>605G2</b> | 6.33 |
| <b>361</b>  | 4.32 | <b>605G3</b> | 6.33 |
| <b>370A</b> | 4.31 | <b>801I</b>  | 5.61 |
| <b>375</b>  | 4.31 | -            | -    |

| Tipo (grandezza) morse / 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        |
| <b>Art. 1AZ</b><br>Morsa <b>StandardFLEX</b> *<br>per <b>Zero Point</b> con<br>piastre ganasce a<br>cambio rapido manuale<br>* Offset lateral clamping<br>not possible. | 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 |
|   |      |            |            |            |            |            |            |            |            |
|   |      |            |            |            |            |            |            |            |            |
|   |      |            |            |            |            |            |            |            |            |


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

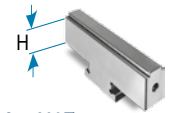
 Piastra ganasce intercambiabile  
 Interchangeable jaw plate


|    | Cod. | 4.23.0E101 | 4.23.0E201 | 4.23.0E301 | 4.23.0E401 |
|----|------|------------|------------|------------|------------|
| H  |      | 23         | 33         | 43         | 53         |
| H1 |      | 5          | 5          | 5          | 5          |

**Art. 212**

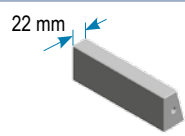
 Ganasce mobile intermedia  
 (da usare con Art. 230E)

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



|  | Cod. | 1.21.21000 | 1.21.22000 | 1.21.23000 | 1.21.24000 |
|--|------|------------|------------|------------|------------|
|  |      |            |            |            |            |

**Art. 230B**

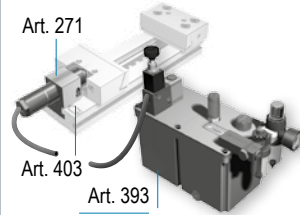
 Piastra ganasce intercambiabile dolce  
 Soft interchangeable jaw plate


|  | Cod. | 4.23.0B101 | 4.23.0B201 | 4.23.0B301 | 4.23.0B401 |
|--|------|------------|------------|------------|------------|
|  |      |            |            |            |            |

**Art. 230F**

 Piastra ganasce intercambiabile prismatica  
 Prismatic interchangeable jaw plate


|  | Cod. | 4.23.0F101 | 4.23.0F201 | 4.23.0F301 | 4.23.0F401 |
|--|------|------------|------------|------------|------------|
|  |      |            |            |            |            |


**Art. 391**  
 CNC / CNC

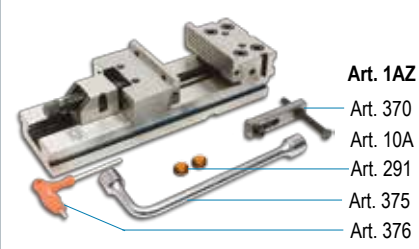
**Art. 392**  
 Pneumatico / Air control

|  | Cod. | 4.39.11000 | 4.39.12000 | 4.39.13000 | 4.39.14000 |
|--|------|------------|------------|------------|------------|
|  |      |            |            |            |            |
|  | Cod. | 4.39.21000 | 4.39.22000 | 4.39.23000 | 4.39.24000 |
|  |      |            |            |            |            |

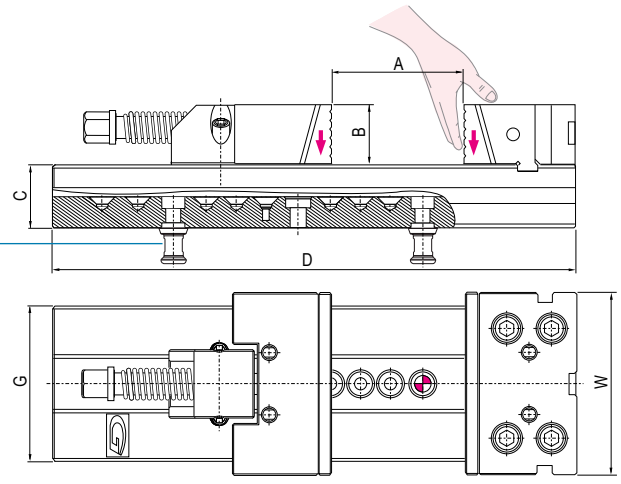
 Servocomandi oleopneumatici (completi di 1 cilindro e supporto) per serraggi multipli **contemporanei** o **indipendenti**, da 2 a 6 morse. Vedi da pag. 4.36 a 4.47

**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



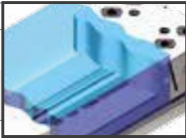


**Standard equipment:**

- 1 workshop Art. 370
- 2 pullstuds Art. 10A
- 2 inserts Art. 291
- 1 box wrench Art. 375 ■ 1 T-wrench Art. 376

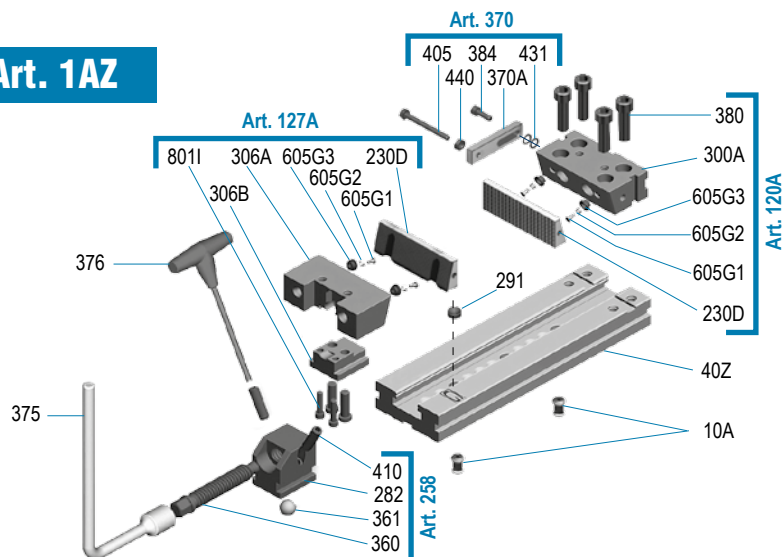

 Vedi gruppo 4 per gamma completa accessori  
 See group 4 for complete range of accessories

| 5<br>40 kN |            |            |            |            | 6<br>40 kN |            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 200        | 300        | 400        | 500        | 600        | 200        | 300        | 400        | 500        | 600        | 700        | 800        |
|            |            | 196        |            |            |            |            |            | 296        |            |            |            |
|            |            | 63         |            |            |            |            |            | 78         |            |            |            |
|            |            | 70         |            |            |            |            |            | 78         |            |            |            |
| 495        | 595        | 695        | 795        | 895        | 535        | 635        | 735        | 835        | 935        | 1035       | 1135       |
|            |            | 200        |            |            |            |            |            | 300        |            |            |            |
| 65.3       | 70.3       | 75.3       | 80.3       | 85.3       | 97         | 107        | 117        | 127        | 137        | 147        | 157        |
| 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 |

**UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !**

|                  |            |   |            |
|------------------|------------|---|------------|
|                  | 4.23.0E501 |    | 4.23.0E601 |
| <b>Art. 230E</b> |            |   |            |
| H                | 53         |   | 68         |
| H1               | 10         |   | 10         |
|                  | 1.21.25000 |    | 1.21.26000 |
| <b>Art. 212</b>  |            |   |            |
|                  | 4.23.0B501 |   | 4.23.0B601 |
| <b>Art. 230B</b> |            |   |            |
|                  | 4.23.0F501 |  | 4.23.0F601 |
| <b>Art. 230F</b> |            |   |            |
|                  | 4.39.15000 |   | 4.39.16000 |
| <b>Art. 391</b>  |            |   |            |
|                  | 4.39.25000 |   | 4.39.26000 |
| <b>Art. 392</b>  |            |   |            |

 Pneumo-hydraulic servo units (complete of hydraulic cylinder + support) for multiple clamping *simultaneous* or *independent*, from 2 to 6 vises. See from page 4.36 to 4.47

**Art. 1AZ**


| Art.        | Pag. |
|-------------|------|
| <b>10A</b>  | 9.31 |
| <b>40Z</b>  | 1.22 |
| <b>230D</b> | 4.17 |
| <b>282</b>  | 4.32 |
| <b>291</b>  | 4.31 |
| <b>300A</b> | 4.26 |
| <b>306A</b> | 4.26 |
| <b>306B</b> | 4.26 |
| <b>360</b>  | 4.32 |
| <b>361</b>  | 4.32 |
| <b>370A</b> | 4.31 |
| <b>375</b>  | 4.31 |

| Art.         | Pag. |
|--------------|------|
| <b>376</b>   | 4.31 |
| <b>380</b>   | 4.24 |
| <b>384</b>   | 4.24 |
| <b>405</b>   | 4.46 |
| <b>410</b>   | 4.32 |
| <b>431</b>   | 4.24 |
| <b>440</b>   | 4.24 |
| <b>605G1</b> | 6.33 |
| <b>605G2</b> | 6.33 |
| <b>605G3</b> | 6.33 |
| <b>801I</b>  | 5.61 |
| -            | -    |

| Tipo (grandezza) morsa / Vise type (size) | 1          | 2          | 3          | 4          |            |            |            |            |
|---|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Art. 40</b>                            |            |            |            |            |            |            |            |            |
| 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 |

Slittone base  
serie **STD** senza  
alcuna dotazione



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

| Tipo (grandezza) morsa / Vise type (size) | 1          | 2          | 3          | 4          |            |            |            |            |
|---|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Art. 40A</b>                           |            |            |            |            |            |            |            |            |
| 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.                                      | 1.40.A1000 | 1.40.A2000 | 1.40.A3200 | 1.40.A3300 | 1.40.A4200 | 1.40.A4300 | 1.40.A4400 | 1.40.A4500 |

Slittone base serie  
**StandardFLEX**  
senza alcuna dotazione



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

| Tipo (grandezza) morsa / Vise type (size) | 1          | 2          | 3          | 4          |            |            |            |            |
|---|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Art. 40Z</b>                           |            |            |            |            |            |            |            |            |
| 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   | 200        | 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 |

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

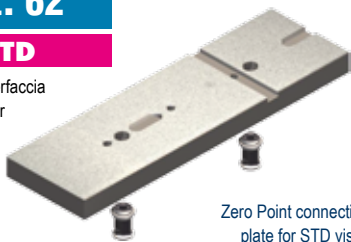


Vise base  
**Zero Point** series  
supplied without any accessory

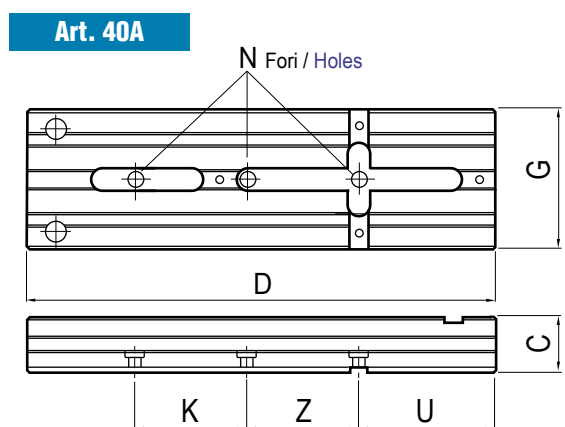
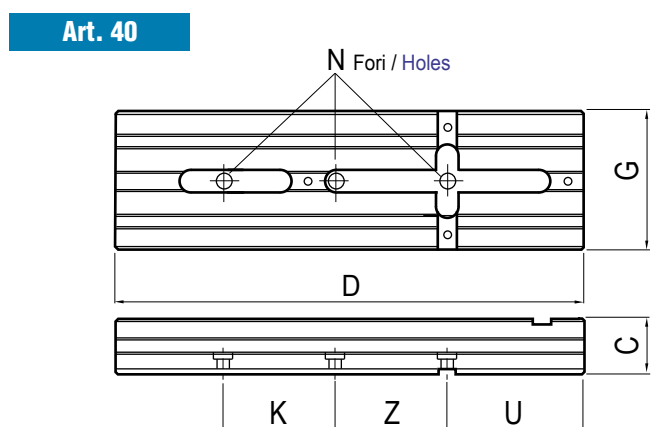
### PIASTRE D'INTERFACCIA Art.62 per morse STD CONNECTING PLATES Art.62 for STD vises

| Tipo (grandezza) morsa / Vise type (size) | 1          | 2          | 3          | 4          |            |            |            |            |
|---|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>Art. 62</b>                            |            |            |            |            |            |            |            |            |
| C1  | 28         | 28         | 33         | 33         |            |            |            |            |
| UU  | 86         | 86         | 97,5       | 97,5       | 104        | 104        | 104        | 104        |
| ZZ  | 200        | 200        | 200        | 200/250    | 200        | 200/250    | 250/300    | 250/300    |
| 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 |

Piastra di interfaccia  
**Zero Point** per  
morse STD



Zero Point connecting  
plate for STD vises



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

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          |            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 70         |            |            |            |            | 78         |            |            |            |            |            |            |
| 495        | 595        | 695        | 795        | 895        | 535        | 635        | 735        | 835        | 935        | 1035       | 1135       |
| 170        |            |            |            |            | 195        |            |            |            |            |            |            |
| 100        |            |            |            |            | 100        |            |            |            |            |            |            |
| 2          | 3          | 4          | 5          | 6          | 4          | 5          | 6          | 7          | 8          | 9          | 10         |
| 145        |            |            |            |            | 152        |            |            |            |            |            |            |
| 100        |            |            |            |            | 100        |            |            |            |            |            |            |
| 32,6       | 39,2       | 45,8       | 52,5       | 59         | 47         | 56         | 65         | 74         | 83         | 61         | 100        |
| 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 |

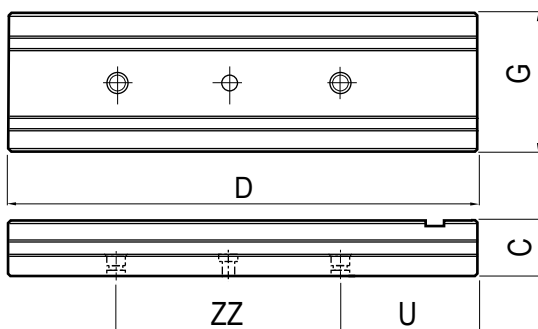
|            |            |            |            |            |            |            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 32,6       | 39,2       | 45,8       | 52,5       | 59         | 47         | 56         | 65         | 74         | 83         | 91         | 100        |
| 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 |

|            |            |            |            |            |            |            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 200        | 200        | 300        | 300        | 300        | 300        | 300        | 300        | 300        | 300        | 300x2      | 300x2      |
| 33         | 40         | 46         | 53         | 59         | 47         | 56         | 65         | 74         | 83         | 91         | 100        |
| 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 |

## PIASTRE D'INTERFACCIA Art.62 per morse STD CONNECTING PLATES Art.62 for STD vises

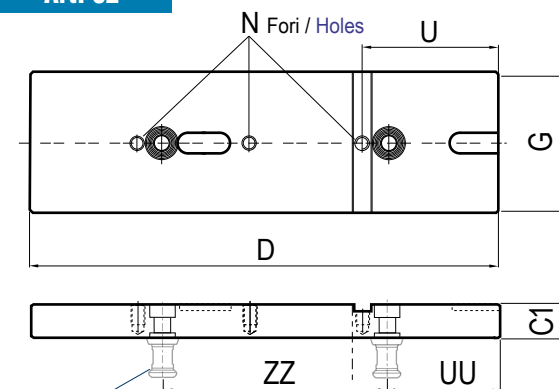
| 38         |            |            |            |            | 38         |            |            |            |            |            |            |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 120        |            |            |            |            | 127        |            |            |            |            |            |            |
| 200        | 200/250    | 250/300    | 250/300    | 300        | 250/300    | 250/300    | 300        | 300        | 300        | 300        | 300        |
| 25         | 30         | 35         | 40         | 45         | 31         | 36,7       | 42,5       | 48,3       | 54         | 59,8       | 65,6       |
| 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 |

### Art. 40Z



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

### Art. 62



Art. 10A

Tiranti Art. 10A non in dotazione  
 Pull studs Art. 10A not included in the standard equipment



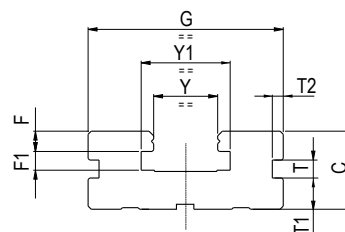
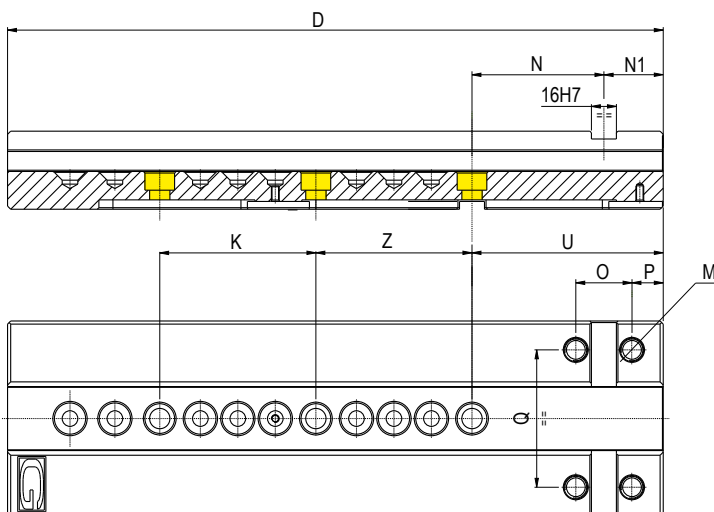
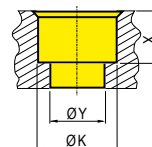
Tipo (grandezza) morsa / Vise type (size)

**1**
**2**
**3**
**4**

Tolleranza / Tolerance

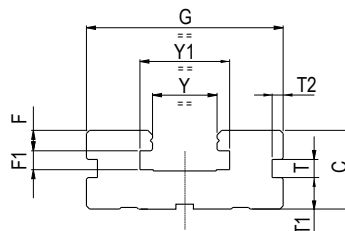
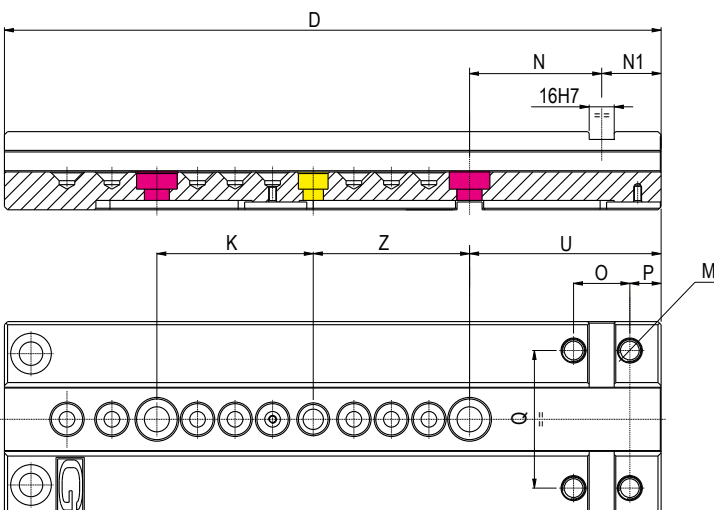
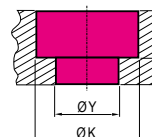
|        |    |     |     |       |      |     |     |     |     |
|--------|----|-----|-----|-------|------|-----|-----|-----|-----|
| - 0,02 | C  | 35  | 40  | 50    | 58   |     |     |     |     |
| -      | D  | 270 | 345 | 420   | 520  | 455 | 555 | 655 | 755 |
| - 0,02 | F  | 10  | 12  | 13    | 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  |     |     |     |     |
| -      | 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  | 8  | 8  | 17 | 17 |
| Ø Y  | 6,5  | 8,5  | 13 | 13 | 17 | 17 |
| Ø K  | 10,5 | 13,5 | 19 | 19 | 26 | 26 |

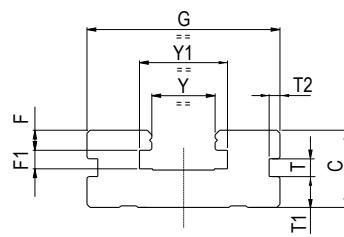
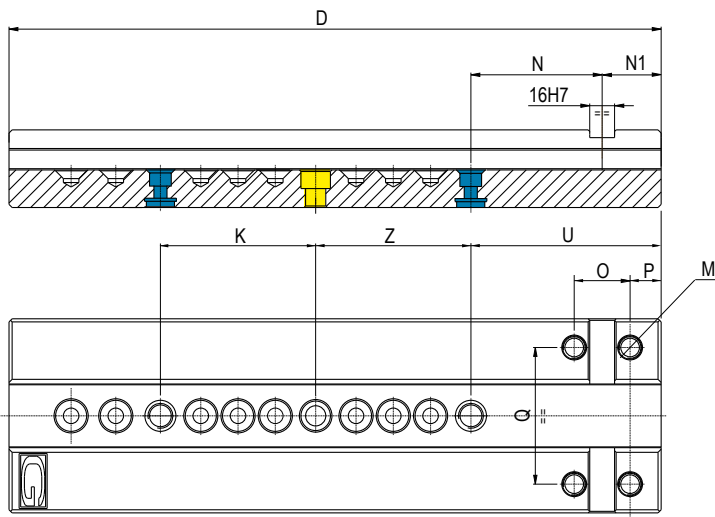
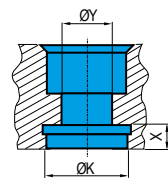
**Art. 40A**

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

**Dettaglio foro per vite calibrata / Calibrated screw hole details**


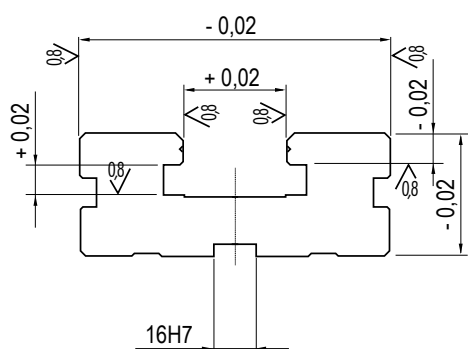
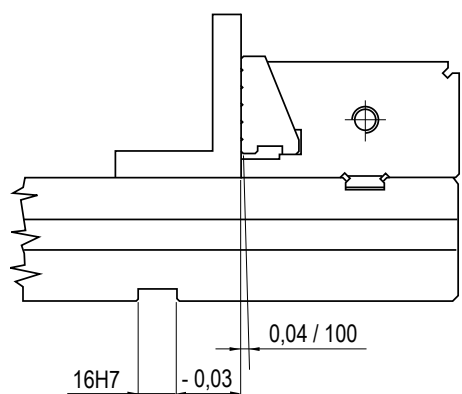
| Type | 1    | 2 | 3 | 4    | 5 | 6 |
|------|------|---|---|------|---|---|
| X    | 8    |   |   | 11   |   |   |
| Ø Y  | 16F7 |   |   | 16F7 |   |   |
| Ø K  | 21   |   |   | 25   |   |   |

| 5   |     |      |     |     | 6   |     |     |      |     |      |      |  |
|-----|-----|------|-----|-----|-----|-----|-----|------|-----|------|------|--|
|     |     | 70   |     |     |     |     |     | 78   |     |      |      |  |
| 495 | 595 | 695  | 795 | 895 | 535 | 635 | 735 | 835  | 935 | 1035 | 1135 |  |
|     |     | 20   |     |     |     |     |     | 20   |     |      |      |  |
|     |     | 18   |     |     |     |     |     | 18   |     |      |      |  |
|     |     | 170  |     |     |     |     |     | 195  |     |      |      |  |
|     |     | 61   |     |     |     |     |     | 71   |     |      |      |  |
|     |     | 80   |     |     |     |     |     | 90   |     |      |      |  |
|     |     | M20  |     |     |     |     |     | M20  |     |      |      |  |
|     |     | 100  |     |     |     |     |     | 107  |     |      |      |  |
|     |     | 45   |     |     |     |     |     | 45   |     |      |      |  |
|     |     | 44   |     |     |     |     |     | 44   |     |      |      |  |
|     |     | 23   |     |     |     |     |     | 23   |     |      |      |  |
|     |     | 120  |     |     |     |     |     | 133  |     |      |      |  |
|     |     | 17,5 |     |     |     |     |     | 17,5 |     |      |      |  |
|     |     | 26   |     |     |     |     |     | 26   |     |      |      |  |
|     |     | 10   |     |     |     |     |     | 10   |     |      |      |  |
|     |     | 145  |     |     |     |     |     | 152  |     |      |      |  |
|     |     | 100  |     |     |     |     |     | 100  |     |      |      |  |
|     |     | 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)

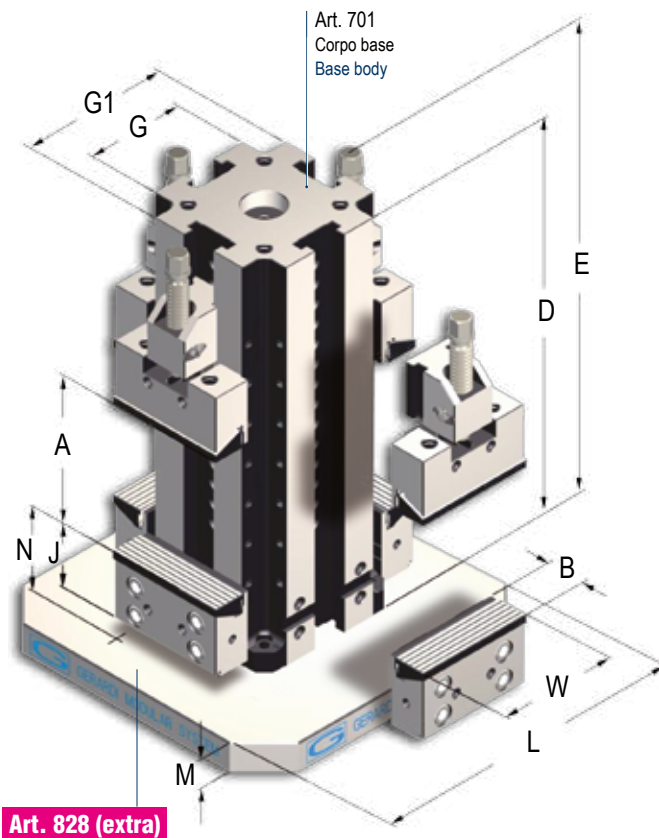
### Art. 700

 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 Art. 297  
(Standard per cava da 16 mm;  
altre dimensioni a richiesta senza variazione di prezzo)
- 1 chiave a pipa Art. 375
- 1 chiave a "T" Art. 376

**Standard equipment:**

- 4 workstops Art. 370
- 2 pairs of positioning key-nuts Art. 297  
(Standard for 16 mm slot;  
other widths available on request without price change)
- 1 box wrench Art. 375
- 1 "T"- wrench Art. 376



|      | 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 |

Tipo (grandezza) morsa / Vise type (size)

### Art. 750

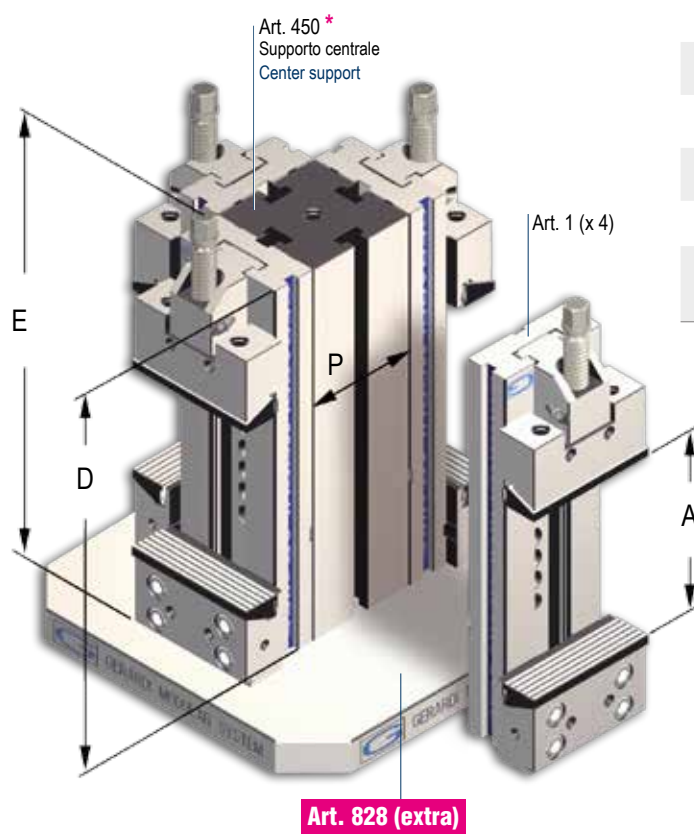
 Morse standard montate verticalmente  
 N° 4 morse STD Art. 1+ N° 1 Art. 450  
 Standard vises vertically mounted  
 N° 4 vises STD Art. 1+ N° 1 Art. 450

**Dotazione standard:**

- 4 arresti laterali Art. 370
- 2 coppie di tasselli di posizionamento Art. 297  
(Standard per cava da 16 mm;  
altre dimensioni a richiesta senza variazione di prezzo)
- 1 chiave a pipa Art. 375
- 1 chiave a "T" Art. 376

**Standard equipment:**

- 4 workstops Art. 370
- 2 pairs of positioning key-nuts Art. 297  
(Standard for 16 mm slot;  
other widths available on request without price change)
- 1 box wrench Art. 375
- 1 "T"- wrench Art. 376



|      | 1          |       |
|------|------------|-------|
|      | kN         | 16 kN |
| A    | 100        |       |
| D    | 270 *      |       |
| E    | 320        |       |
| P    | 75 *       |       |
| kg   | 10         |       |
| Cod. | 1.75.01000 |       |

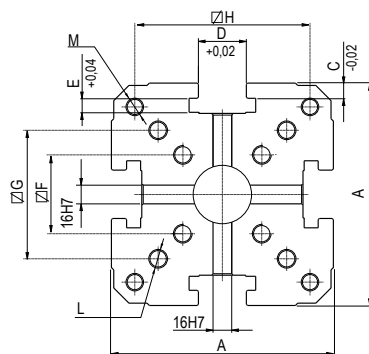
| 2<br>25 kN |            | 3<br>30 kN |            |            | 4<br>30 kN |            |             |            | 5<br>40 kN | 6<br>40 kN |
|------------|------------|------------|------------|------------|------------|------------|-------------|------------|------------|------------|
| 155        | 205        | 170        | 270        | 370        | 145        | 245        | 345         | 445        | -          | -          |
| 125        |            | 150        |            |            | 175        |            |             |            | 200        | 300        |
| 40         |            | 50         |            |            | 60         |            |             |            | -          | -          |
| 350        | 400        | 400        | 500        | 600        | 400        | 500        | 600         | 700        | -          | -          |
| 430        | 480        | 470        | 570        | 670        | 475        | 575        | 675         | 775        | -          | -          |
| 95         |            | 125        |            |            | 145        |            |             |            | 170        | 195        |
| 160        |            | 190        |            |            | 230        |            |             |            | *          | *          |
| 77,9       |            | 89,4       |            |            | 96,9       |            |             |            | *          | *          |
| 350        |            | 400        |            |            | 450        |            |             |            | *          | *          |
| 33         |            | 38         |            |            | 38         |            |             |            | -          | -          |
| 85         |            | 102        |            |            | 111        |            |             |            | -          | -          |
| 83         | 96         | 137        | 160        | 183        | 197        | 230        | 263         | 296        | -          | -          |
| 3.70.01552 | 3.70.02052 | 3.70.01803 | 3.70.02803 | 3.70.03803 | 3.70.01454 | 3.70.02454 | 3.70.034 54 | 3.70.04454 | -          | -          |

\* Altre dimensioni a richiesta / Other dimensions on request

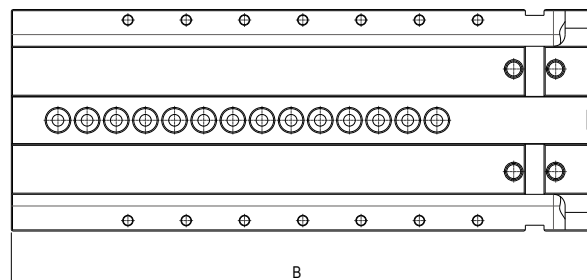
| 2<br>25 kN | 3<br>30 kN |            | 4<br>30 kN |            |            |            | 5<br>40 kN |            |            | 6<br>40 kN |            |            |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| 150        | 200        | 300        | 200        | 300        | 400        | 500        | 200        | 300        | 400        | 300        | 400        | 500        |
| 345 *      | 420        | 520        | 455        | 555        | 655        | 755        | 495        | 595        | 695        | 635        | 735        | 835        |
| 345        | 450        | 550        | 455        |            |            |            | -          |            |            | -          |            |            |
| 95 *       | 125        |            | 145        |            |            |            | 170        |            |            | 195        |            |            |
| 19         | 46         |            | 68         |            |            |            | 98         |            |            | 145        |            |            |
| 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 |

\* Altre dimensioni a richiesta / Other dimensions on request

Tipo (grandezza) morsa / Vise type (size)



**Art. 701**

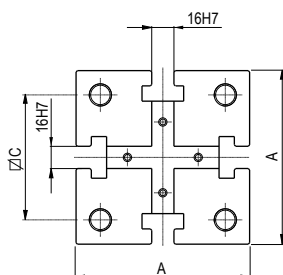


Senza alcuna dotazione  
Without accessory equipment

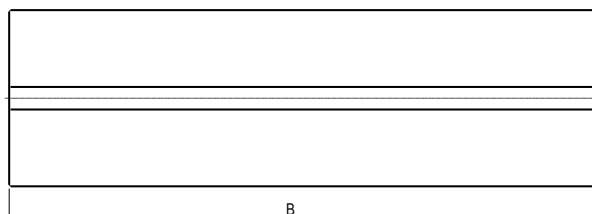
**Art. 701**

Corpo slittone standard  
Body for standard vise tower

Tipo (grandezza) morsa / Vise type (size)



**Art. 450**

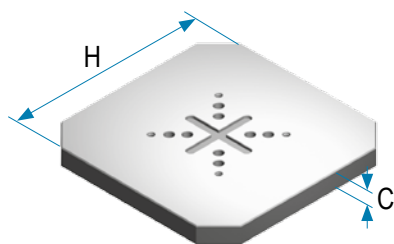


Senza alcuna dotazione  
Without accessory equipment

**Art. 450**

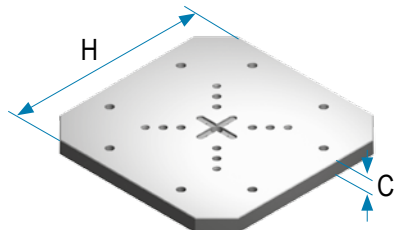
Supporto centrale per montaggio morse modulari standard in verticale. Dolce o temprato.  
Center support for vertical arrangement of standard modular vises. Soft or hardened

Tipo (grandezza) morsa / Vise type (size)



**Art. 828**

Piastra base per cubo-morsa  
Head plate for vise-tower



**Art. 828A**

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 | *    |    |

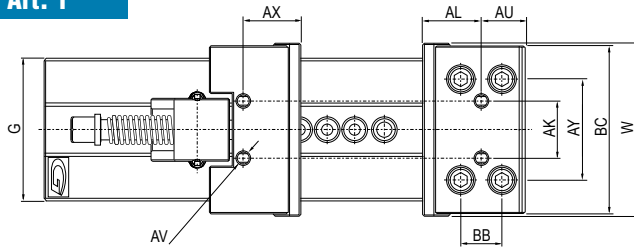
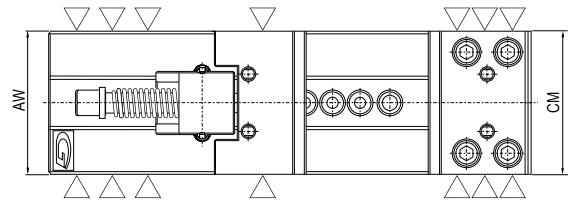
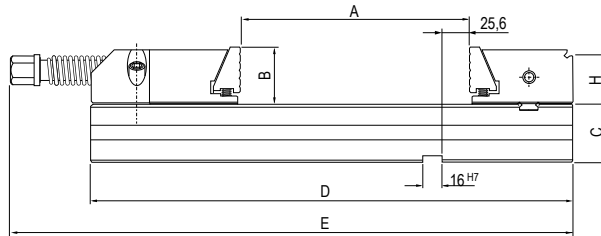
\*A richiesta / On request

|      | 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 |

\*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   | 22,5       | 30,5       | 45         | 57         | 72         | 114        | 183        |
| Cod. | 1.82.81000 | 1.82.82000 | 1.82.83000 | 1.82.84000 | 1.82.85000 | 1.82.86000 | 1.82.87000 |

|      |            |            |            |            |            |            |            |
|------|------------|------------|------------|------------|------------|------------|------------|
| 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 |

**Art. 1**

**Art. 12**

**Art. 1+12**


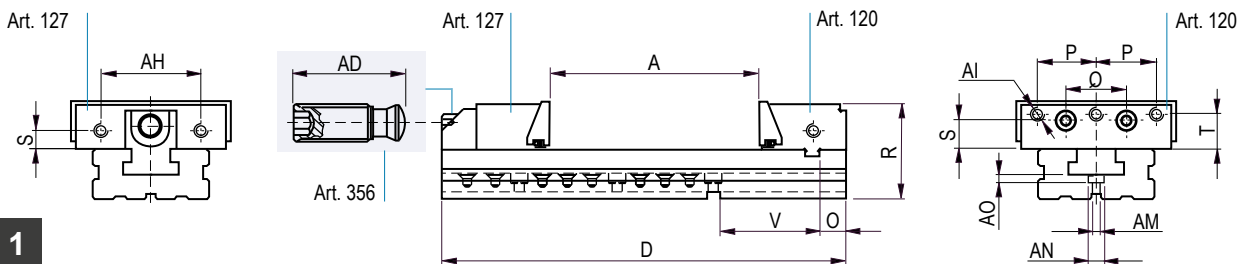
Tipo (grandezza) morsa / Vise type (size)

Tabella dimensionale / Table dimension

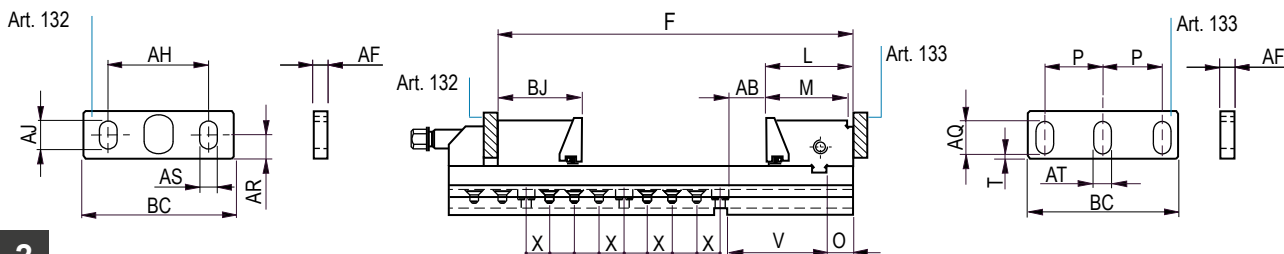
| mm | 1   | 2   | 3   | 4   | 5   | 6   |     |     |     |     |     |     |     |     |     |     |     |      |      |      |
|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| W  | 100 | 125 | 150 | 175 |     | 200 |     | 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  |

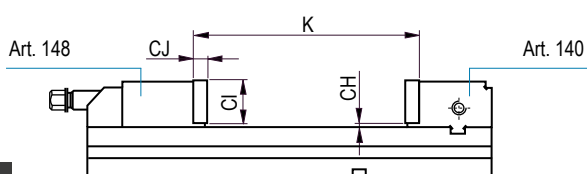
| mm | 1    | 2    | 3     | 4    | 5     | 6     | Tolleranza<br>Tolerance | mm | 1    | 2    | 3    | 4    | 5    | 6    | Tolleranza<br>Tolerance |
|----|------|------|-------|------|-------|-------|-------------------------|----|------|------|------|------|------|------|-------------------------|
| 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   |                         | AX | 20   | 23   | 28   | 28   | 34   | 38   |                         |
| V  | 76   | 76   | 84.5  | 89   | 100   | 107   | ± 0.02                  | AY | 50   | 62   | 88   | 100  | 120  | 133  |                         |
| W  | -    | -    | 100   | 100  | 100   | 100   |                         | AZ | M10  | M12  | M14  | M16  | M20  | M20  |                         |
| X  | 20   | 25   | 25    | 25   | 33.33 | 33.33 |                         | BB | 32   | 32   | 36   | 36   | 44   | 44   |                         |
| Y  | 21   | 28   | 41    | 51   | 61    | 71    | + 0.02                  | BC | 96   | 121  | 146  | 171  | 196  | 296  |                         |
| Z  | 100  | 100  | 100   | 100  | 100   | 100   |                         | BG | 28   | 38   | 48   | 58   | 63   | 78   |                         |
| AA | 10   | 12   | 13    | 15   | 20    | 20    | - 0.02                  | BJ | 50   | 60   | 80   | 90   | 100  | 120  |                         |
| AB | 25.6 | 25.6 | 25.6  | 25.6 | 25.6  | 25.6  | + 0.02                  | BL | 180  | 225  | 290  | 320  | 370  | 400  |                         |
| AC | 31   | 41   | 57    | 70   | 80    | 90    |                         | BM | 9.5  | 9.5  | 11.5 | 11.5 | 17.5 | 17.5 |                         |
| AD | 53   | 73   | 81    | 101  | 113   | 135   |                         | CC | 77   | 77   | 88.5 | 96   | 112  | 117  |                         |
| AF | 13   | 18   | 18    | 18   | 18    | 18    |                         | CD | 48   | 58   | 78   | 88   | 98   | 117  |                         |
| AG | M10  | M16  | M16   | M16  | M20   | M20   |                         | CE | 5    | 5    | 5    | 5    | 5    | 5    |                         |
| AH | 62   | 80   | 90    | 116  | 138   | 184   |                         | CF | -    | -    | 64   | 64   | 71   | -    |                         |
| AI | M10  | M10  | M12   | M12  | M12   | M12   |                         | CG | -    | -    | 100  | 100  | 128  | -    |                         |
| AJ | 14   | 19   | 24    | 29   | 31.5  | 39    |                         | CH | 5.5  | 8    | 11   | 17   | 17   | 24   |                         |
| AK | 38   | 38   | 50    | 50   | 76    | 240   |                         | CI | 24.5 | 32   | 39   | 43   | 48   | 56   |                         |
| AX | 25,6 | 42,4 | 50,1  | 55,4 | 66,4  | 73,4  |                         | CJ | 12   | 12   | 13   | 13   | 18   | 18   |                         |
| AL | 42.4 | 42.4 | 50.9  | 55.4 | 66.4  | 73.4  |                         | -  | -    | -    | -    | -    | -    | -    |                         |
| AM | 4.5  | 5.5  | 12.5  | 12.5 | 17    | 17    |                         | -  | -    | -    | -    | -    | -    | -    |                         |
| AN | 10   | 13   | 19    | 19   | 25    | 25    |                         |    |      |      |      |      |      |      |                         |



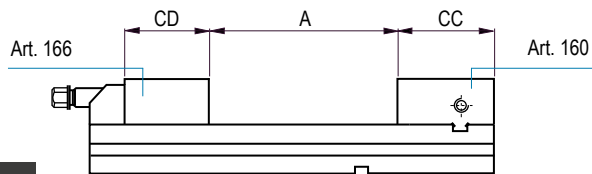
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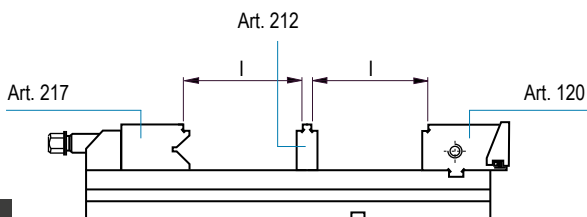
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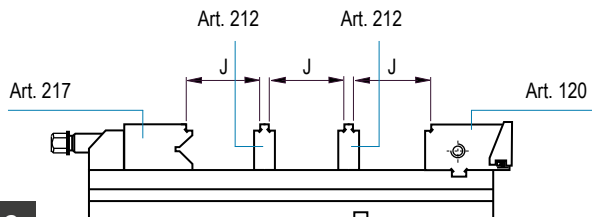
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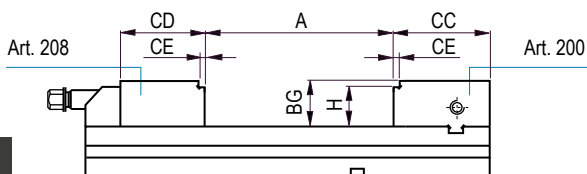
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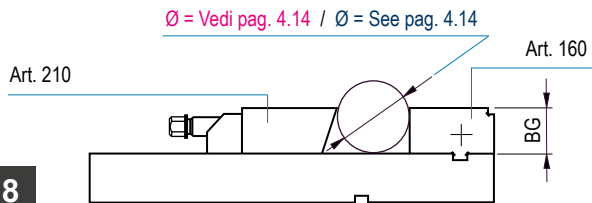
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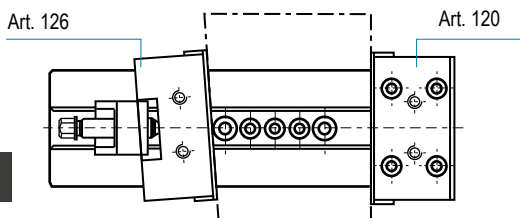
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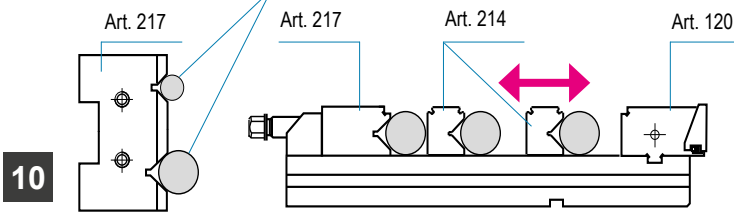
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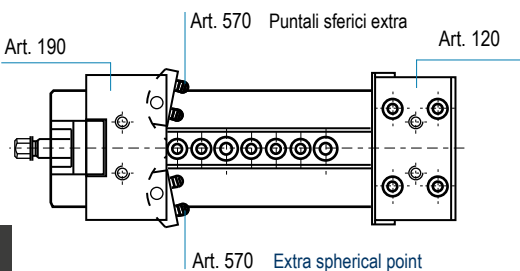
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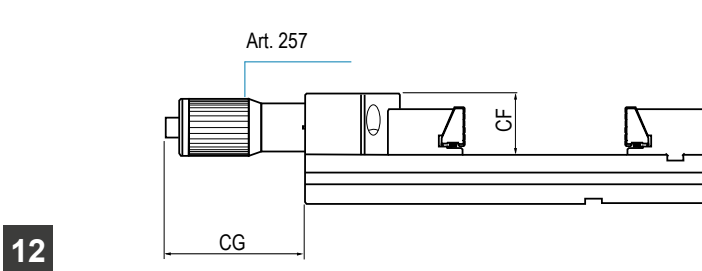
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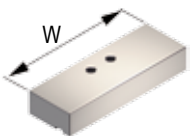
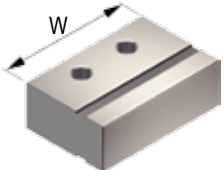
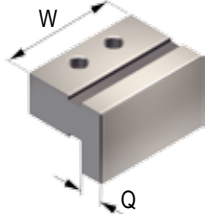
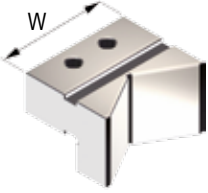
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11

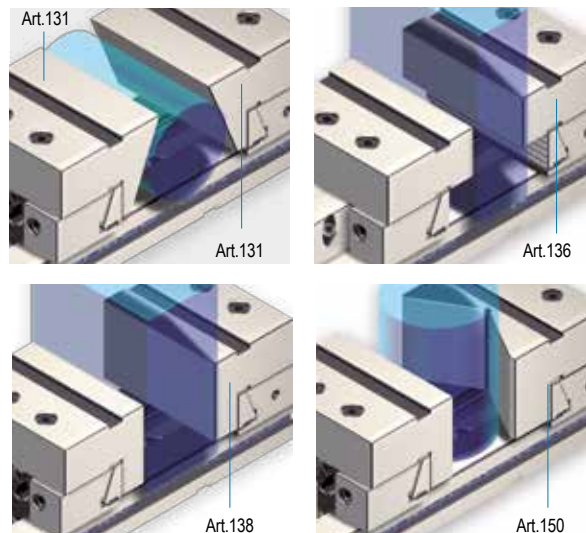
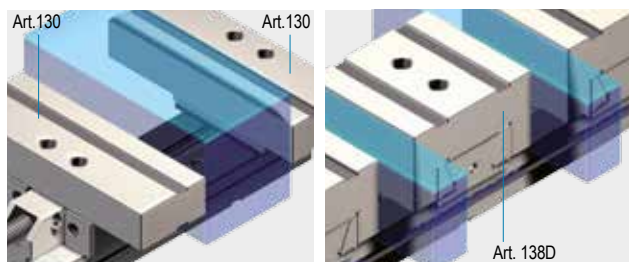


12

| Tipo (grandezza) / Type (size)   |  | 1  | 2                        | 3                        | 4                        | 5                        | 6                        |  |                          |                          |                          |                          |
|--|--|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|
| <b>Ganascia piana sovrapponibile fissa o mobile</b><br>Straight stack-type jaw fixed or movable<br>         | <b>Art. 130</b> <b>Art. 130S</b><br>Extra large / Extra width  | Cod. Art. 130   2.13.01000<br>Cod. Art. 130S   2.13.0S100  | 2.13.02000<br>2.13.0S200 | 2.13.03000<br>2.13.0S300 | 2.13.04000<br>2.13.0S400 | 2.13.05000<br>2.13.0S500 | 2.13.06000<br>2.13.0S600 |  |                          |                          |                          |                          |
|  | <b>Art. 131</b> <b>Art. 131S</b><br>Larghezza normale / Normal width<br><b>Art. 131A</b> <b>Art. 131AS</b><br>Larghezza super ridotta / Super narrow width   | Cod. Art. 131   2.13.11000<br>Cod. Art. 131A   2.13.1A100  | 2.13.12000<br>2.13.1A200 | 2.13.13000<br>2.13.1A300 | 2.13.14000<br>2.13.1A400 | 2.13.15000<br>2.13.1A500 | 2.13.16000<br>2.13.1A600 | Cod. Art. 131S   2.13.1S100<br>Cod. Art. 131AS   2.13.1AS10  | 2.13.1S200<br>2.13.1AS20 | 2.13.1S300<br>2.13.1AS30 | 2.13.1S400<br>2.13.1AS40 | 2.13.1S500<br>2.13.1AS50 |
| <b>Ganascia piana sovrapponibile fissa o mobile</b><br>Straight stack-type jaw fixed or movable<br>         | <b>Art. 136</b> <b>Art. 136S</b><br>Larghezza normale / Normal width<br><b>Art. 137</b> <b>Art. 137S</b><br>Larghezza super ridotta / Super narrow width     | Cod. Art. 136   2.13.61000<br>Cod. Art. 137   2.13.71000   | 2.13.62000<br>2.13.72000 | 2.13.63000<br>2.13.73000 | 2.13.64000<br>2.13.74000 | 2.13.65000<br>2.13.75000 | 2.13.66000<br>2.13.76000 |  |                          |                          |                          |                          |
|  | <b>Art. 138</b> <b>Art. 138S</b><br>Larghezza normale / Normal width<br><b>Art. 139</b> <b>Art. 139S</b><br>Larghezza super ridotta / Super narrow width     | Cod. Art. 138   2.13.81000<br>Cod. Art. 139   2.13.91000   | 2.13.82000<br>2.13.92000 | 2.13.83000<br>2.13.93000 | 2.13.84000<br>2.13.94000 | 2.13.85000<br>2.13.95000 | 2.13.86000<br>2.13.96000 | Cod. Art. 138S   2.13.8S100<br>Cod. Art. 139S   2.13.9S100   | 2.13.8S200<br>2.13.9S200 | 2.13.8S300<br>2.13.9S300 | 2.13.8S400<br>2.13.9S400 | 2.13.8S500<br>2.13.9S500 |
| <b>Ganascia a squadra sovrapponibile fissa o mobile</b><br>Square stack-type jaw fixed or movable<br>      | <b>Art. 138D</b> <b>Art. 138DS</b><br>Larghezza normale / Normal width<br><b>Art. 139D</b> <b>Art. 139DS</b><br>Larghezza super ridotta / Super narrow width | Cod. Art. 138D   2.13.8D100<br>Cod. Art. 139D   2.13.9D100 | 2.13.8D200<br>2.13.9D200 | 2.13.8D300<br>2.13.9D300 | 2.13.8D400<br>2.13.9D400 | 2.13.8D500<br>2.13.9D500 | 2.13.8D600<br>2.13.9D600 |  |                          |                          |                          |                          |
|  | <b>Art. 138D</b> <b>Art. 138DS</b><br>Larghezza normale / Normal width<br><b>Art. 139D</b> <b>Art. 139DS</b><br>Larghezza super ridotta / Super narrow width | Cod. Art. 138D   2.13.8D100<br>Cod. Art. 139D   2.13.9D100 | 2.13.8D200<br>2.13.9D200 | 2.13.8D300<br>2.13.9D300 | 2.13.8D400<br>2.13.9D400 | 2.13.8D500<br>2.13.9D500 | 2.13.8D600<br>2.13.9D600 | Cod. Art. 138DS   2.13.8DS10<br>Cod. Art. 139DS   2.13.9DS10 | 2.13.8DS20<br>2.13.9DS20 | 2.13.8DS30<br>2.13.9DS30 | 2.13.8DS40<br>2.13.9DS40 | 2.13.8DS50<br>2.13.9DS50 |
| <b>Ganascia prismatica sovrapponibile fissa o mobile</b><br>Stack-type prismatic jaw fixed or movable<br> | <b>Art. 150</b> <b>Art. 150S</b><br>Larghezza normale / Normal width<br><b>Art. 150A</b> <b>Art. 150AS</b><br>Larghezza super ridotta / Super narrow width   | Cod. Art. 150   1.15.01000<br>Cod. Art. 150A   1.15.0A100  | 1.15.02000<br>1.15.0A200 | 1.15.03000<br>1.15.0A300 | 1.15.04000<br>1.15.0A400 | 1.15.05000<br>1.15.0A500 | 1.15.06000<br>1.15.0A600 |  |                          |                          |                          |                          |
|  | <b>Art. 150</b> <b>Art. 150S</b><br>Larghezza normale / Normal width<br><b>Art. 150A</b> <b>Art. 150AS</b><br>Larghezza super ridotta / Super narrow width   | Cod. Art. 150   1.15.01000<br>Cod. Art. 150A   1.15.0A100  | 1.15.02000<br>1.15.0A200 | 1.15.03000<br>1.15.0A300 | 1.15.04000<br>1.15.0A400 | 1.15.05000<br>1.15.0A500 | 1.15.06000<br>1.15.0A600 | Cod. Art. 150S   1.15.0S100<br>Cod. Art. 150AS   1.15.0AS10  | 1.15.0S200<br>1.15.0AS20 | 1.15.0S300<br>1.15.0AS30 | 1.15.0S400<br>1.15.0AS40 | 1.15.0S500<br>1.15.0AS50 |

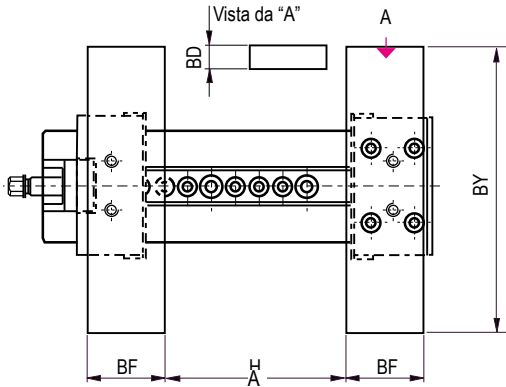
**Versione "S" in acciaio lavorabile / "S" type in soft steel**

**Esempi applicativi - Application examples:**



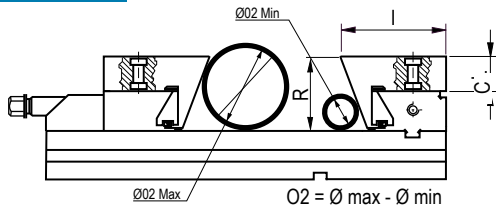
Tipo (grandezza) morsa / Vise type (size)

**Art. 130** *Temperate o in acciaio lavorabile / Hardened or soft*



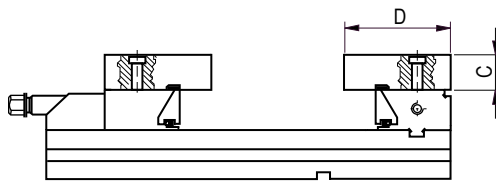
| mm | 1   | 2   | 3   | 4   | 5     | 6   |
|----|-----|-----|-----|-----|-------|-----|
| C  | 32  | 42  | 52  | 62  | 67    | 82  |
| D  | 84  | 84  | 105 | 130 | 130   | 150 |
| E  | 80  | 88  | 105 | 110 | 130   | 135 |
| F  | 57  | 70  | 90  | 110 | 128   | 150 |
| G  | 110 | 110 | 162 | 171 | 192,8 | 190 |
| I  | 95  | 95  | 123 | 136 | 170   | 206 |

**Art. 131/131A** *Temperate o in acciaio lavorabile / Hardened or soft*



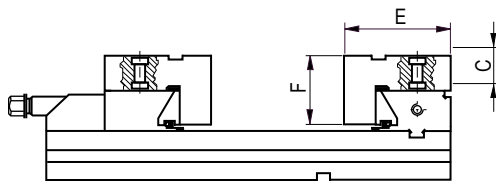
|    |     |     |     |     |     |     |
|----|-----|-----|-----|-----|-----|-----|
| BD | 32  | 42  | 52  | 62  | 72  | 82  |
| BF | 80  | 84  | 105 | 120 | 128 | 135 |
| BY | 200 | 250 | 300 | 350 | 400 | 600 |
| P  | 84  | 120 | 120 | 140 | 175 | 206 |

**Art. 136/137** *Temperate o in acciaio lavorabile / Hardened or soft*



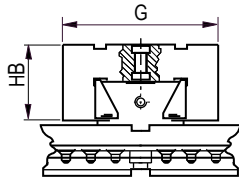
|   |    |    |    |     |     |     |
|---|----|----|----|-----|-----|-----|
| R | 60 | 78 | 90 | 110 | 128 | 150 |
|---|----|----|----|-----|-----|-----|

**Art. 138/139** *Temperate o in acciaio lavorabile / Hardened or soft*



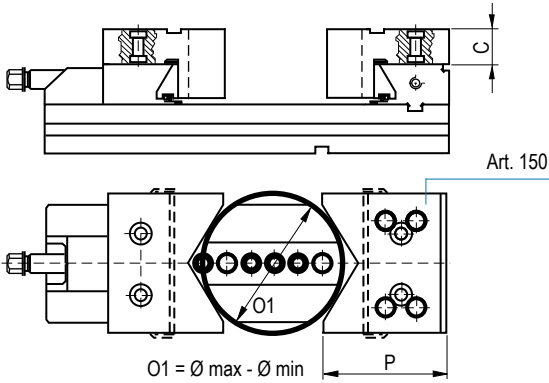
|                 |     |     |     |     |     |     |
|-----------------|-----|-----|-----|-----|-----|-----|
| Art. 150 O1 min | 26  | 32  | 38  | 45  | 55  | 75  |
| Art. 150 O1 max | 160 | 200 | 240 | 280 | 360 | 500 |

**Art. 138D/139D** *Temperate o in acciaio lavorabile / Hardened or soft*



|   |    |     |     |     |     |     |
|---|----|-----|-----|-----|-----|-----|
| W | 96 | 121 | 146 | 171 | 196 | 296 |
| Q | 30 | 30  | 30  | 30  | 30  | 30  |

**Art. 150/150A** *Temperate o in acciaio lavorabile / Hardened or soft*



|                 |    |     |     |     |     |     |
|-----------------|----|-----|-----|-----|-----|-----|
| Art. 131 O2 min | 33 | 43  | 49  | 60  | 70  |     |
| Art. 131 O2 max | 75 | 100 | 130 | 160 | 180 | 220 |

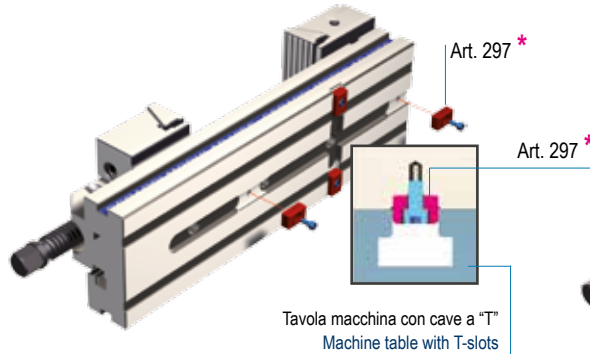
|  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |



## ISTRUZIONI PER UN CORRETTO UTILIZZO INSTRUCTIONS FOR A PROPER USE

### POSIZIONAMENTO

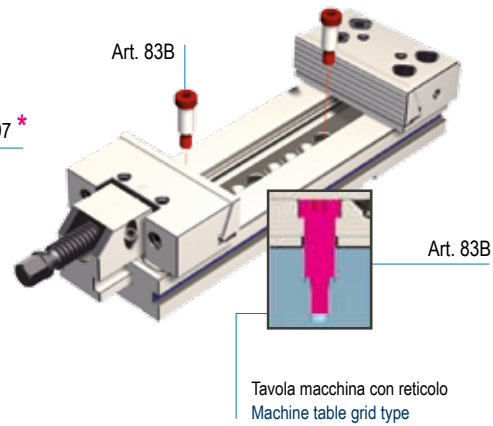
Le morse della serie **STANDARD** e **StandardFLEX** possono essere posizionate orizzontalmente oppure in verticale sulla tavola della macchina o su sovratavola. Il **posizionamento** e l'**allineamento** avviene tramite chiavette a 16 H7. Si può anche allineare la morsa tramite viti calibrate, garantendo tolleranze centesimali. (No per tipo 1e2).



\* La dotazione standard comprende 1 sola coppia di tasselli di posizionamento Art. 297  
\* Standard equipment includes only 1 pair of positioning key nuts Art. 297

### POSITIONING

**STANDARD** and **StandardFLEX** series vises can be aligned on the machine table horizontally or vertically mounted. Accurate **positioning** and **alignment** within centesimal tolerances is made through 16 H7 longitudinal or crossway keys. It is also possible to align the vise through calibrated ground screws (Not for types 1 and 2).

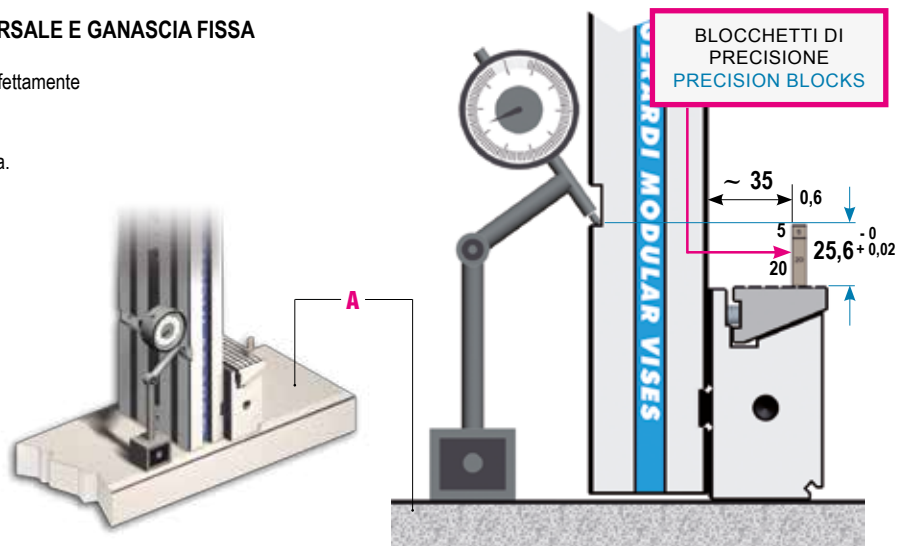


### CONTROLLO ALLINEAMENTO TRA CAVA TRASVERSALE E GANASCIA FISSA

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.

### ALIGNMENT BETWEEN THE CROSS KEYWAY AND THE FIXED JAW PLATE

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.



### ANCORAGGIO

L'**ancoraggio** può avvenire tramite viti centrali o staffe laterali. La scelta più valida rimane comunque il **fissaggio tramite staffe laterali (Art. 296)**. Due morse parallele allineate tramite chiave centrale, viti calibrate o riferimenti laterali, mantengono lo stesso riferimento sulle ganasce fisse con tolleranza pari a **0,02 mm**.

### WISE CLAMPING ON THE MACHINE TABLE

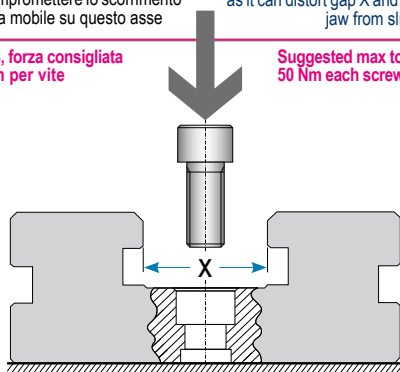
The **clamping** on the machine table can be made through screws from the central groove or through side clamps. The **best clamping choice is through side clamps (Art. 296)**. Two vises aligned through central cross keys or ground screws or side lateral reference points guarantee the same reference and alignment on the fixed jaw section with accuracy within **0,02 mm**.

Lo staffaggio della morsa con questo metodo **NON è consigliabile** perché la sua quota X può flettere e compromettere lo scorrimento della ganascia mobile su questo asse

Hard tightening down of the vise to the machine table by this method is **NOT recommended** as it can distort gap X and prevent the moving jaw from sliding

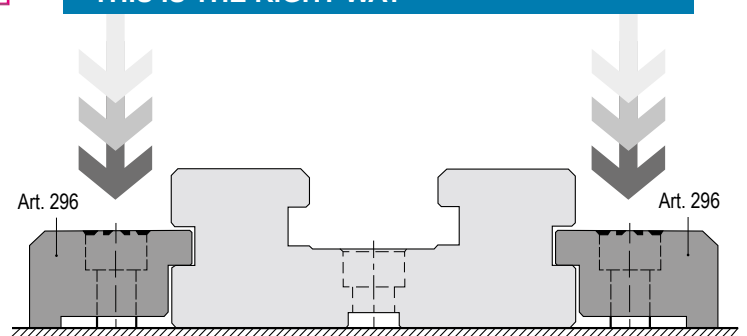
Per morsa tipo 3, forza consigliata massima 50 Nm per vite

Suggested max torque 50 Nm each screw for type 3 vise



### IL METODO CORRETTO È QUESTO

### THIS IS THE RIGHT WAY



## ISTRUZIONE PER UN CORRETTO UTILIZZO INSTRUCTIONS FOR A PROPER USE

### OPERAZIONI PER UN CORRETTO SERRAGGIO DEI PEZZI

Le illustrazioni si riferiscono all' Art. 1 "STANDARD"

**1-** Assicurarsi che la morsa sia correttamente posizionata e ancorata alla tavola della macchina e che la ganaschia fissa Art. 120 / 120A sia correttamente fissata. (Fig. 1)

### ACTIONS FOR THE BEST WORK-PIECE CLAMPING

Pictures refer to Art. 1 "STANDARD" vise

**1-** Ensure that the vise is properly positioned and clamped to the machine table and that the fixed jaw Art.120 / 120A is properly assembled. (Pic.1)



Fig.1 | Pic.1

**2-** Posizionare la ganaschia mobile Art. 127 / 127A allentando i due grani Art. 410 per consentire il sollevamento della sfera calibrata Art. 361 e quindi lo spostamento di tutto il gruppo di serraggio Art. 258 in una posizione più idonea sullo slittone di base, lasciando circa 5 mm di aria rispetto al pezzo da serrare. (Fig. 2)

**2-** Position the movable jaw Art.127 / 127A loosening the 2 set screws Art.410 in order to allow the ground ball Art.361 lift and then move the Art.258 blocking group in the most proper position on the vise base leaving roughly 5 mm space with respect to the workpiece to clamp. (Pic.2)

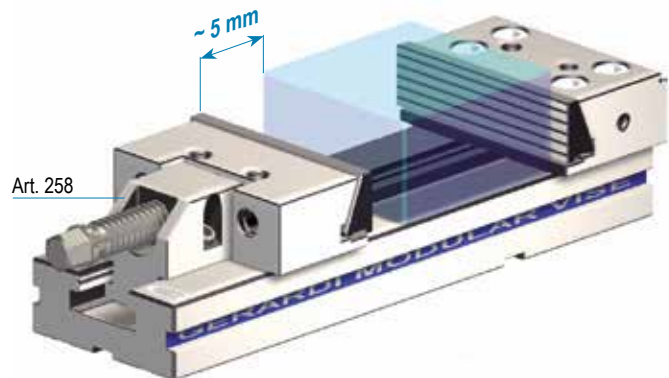
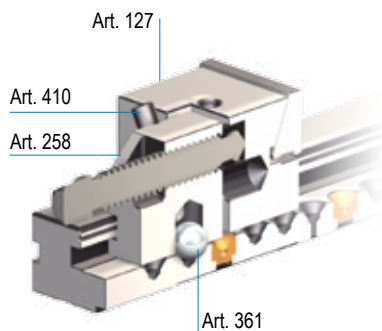


Fig.2 | Pic.2

**3-** Nello stringere i due grani Art. 410 mediante la chiave Art. 376, (agendo in senso orario) per assicurarsi che la sfera di posizionamento Art. 361, sia correttamente posizionata in una sede sferica.

Fare attenzione che tale sfera non venga posizionata in una incassatura delle viti di ancoraggio. E' possibile posizionare l'apposito inserto Art. 291 con sede sferica per prevenire incastri. (Fig. 3)

**3-** Tightening the 2 set screws Art.410 through the T-wrench Art.376 to ensure that the positioning ball Art.361 is properly positioned in a spherical recess.

Be careful that the positioning ball is not pushed in the hole used for the vise clamping screws. It is also possible to use a proper insert Art. 291 with spherical recess in order to prevent bad blocking of the ball. (Pic. 3)

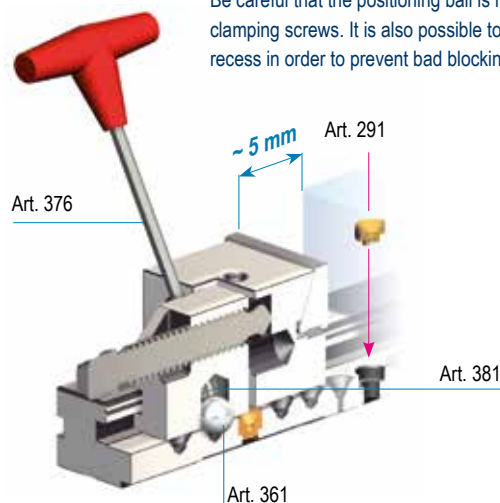
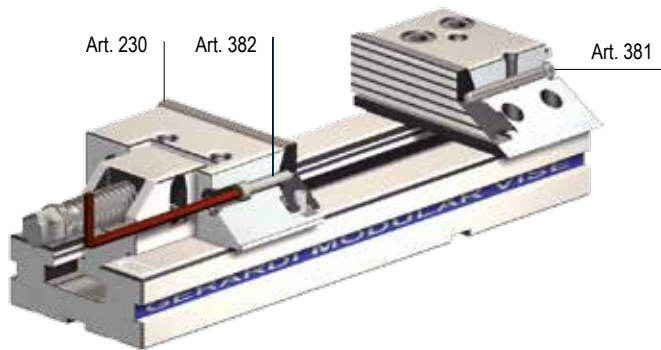


Fig.3 | Pic.3

# UTILIZZO E MANUTENZIONE DELLE MORSE STD USE AND MAINTENANCE OF STD VISES

## UTILIZZO DELL' OPZIONE "EFFETTO DISCENDENTE"

**4-** Nel caso di morse Art.1 volendo avvalersi della opzione piastre ganasce discendenti, allentare di 1/4 di giro le viti Art. 381 / 382 ( Fig. 4) per permettere alle piastre ganasce discendenti Art. 230 di scorrere dall' alto verso il basso, ottenendo così un serraggio del pezzo verso la base morsa.  
L' azzeramento e l'allineamento degli assi saranno da eseguire con il particolare da lavorare già serrato.



### SOLO PER MORSE STANDARD - ONLY FOR STANDARD VISES

Allentando le viti di 1/4 di giro si ha un sollevamento della piastra della ganasca Art. 230 grazie alla spinta della molla Art. 362. Eseguire l'azzeramento mentre con il pezzo serrato  
Loosening the screws of 1/4 of a turn you get a jaw plate Art.230 lift because of the spring Art.362 action.  
Check alignment with workpiece clamped.

## "PULL DOWN" ACTION OPTION

**4-** Using Art.1 vises, if the pull down option is required, loose of 1/4 of a turn the screws Art.381 / 382 ( Pic.4 ) in order to allow the jaw plates Art.230 to run downward getting a perfect clamping of the workpiece against the vise base.  
The axis zero setting and the alignment must be done when the workpiece already clamped

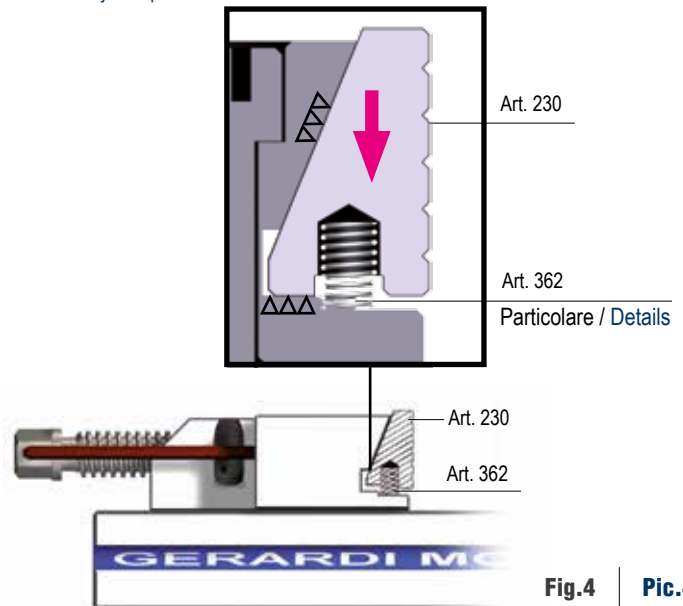


Fig.4 | Pic.4

**5-** Posizionare il pezzo da serrare sullo slittone Art. 40 o 40A e tenerlo contro la ganasca fissa Art. 120 o 120A. Per un corretto posizionamento del pezzo ci si può avvalere dei riferimenti laterali Art. 370. (Fig. 5)

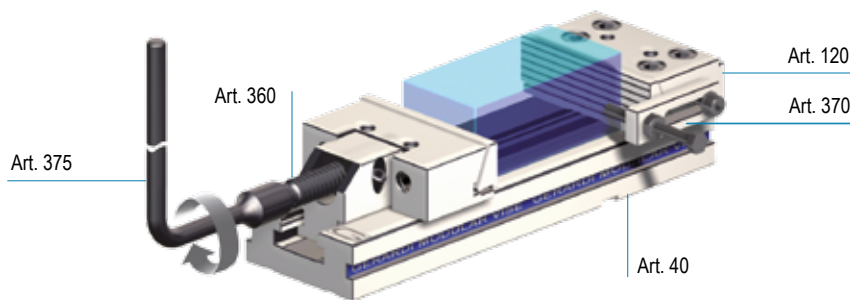


Fig.5 | Pic.5

**5-** Position the workpiece on the vise base Art.40 or 40A and push it against the fixed jaw Art.120 or 120A. For a proper workpiece positioning you can use the work-stop Art.370. (Pic.5)

**6-** Serrare il pezzo agendo in senso orario sulla vite di spinta Art. 360 (Fig. 5) mediante la chiave in dotazione Art. 375 senza utilizzare tubi o martelli. Attenzione: nel serraggio basta 1/4 di giro della chiave dal momento in cui la ganasca tocca il particolare (valori indicativi in tabella). (Fig. 6)

**6-** Clamp the workpiece turning clockwise the main spindle Art.360 through the box wrench Art.375 without using tubes or hammers. Attention: for the right clamping operation 1/4 of a turn of the box wrench is enough (see table below). (Pic.6)

Valori indicativi delle forze di serraggio raggiunte a 90°  
Clamping force indicative values at 90°

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

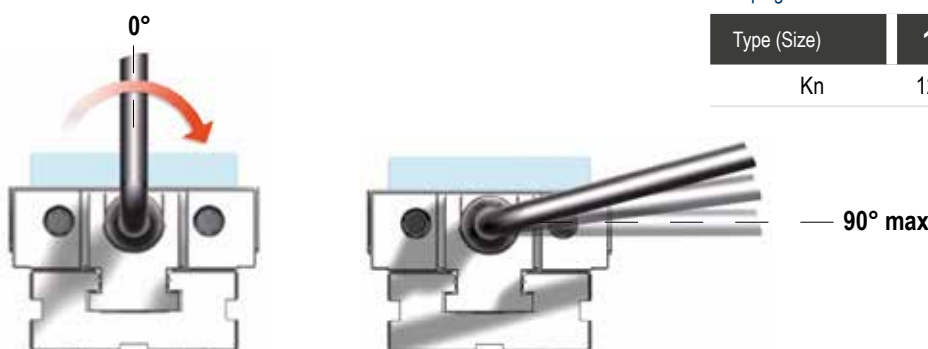


Fig.6 | Pic.6

# COME SERRARE IL PEZZO HOW TO CLAMP A WORKPIECE

Per serrare correttamente il pezzo è consigliabile utilizzare una chiave dinamometrica da regolare in base al tipo di morsa e alla forza che si vuole ottenere.

## AVVERTENZA

Per una maggior precisione e ripetibilità delle lavorazioni, attenersi alle seguenti disposizioni:

- ❶ Serrare il particolare con una chiave dinamometrica, regolata secondo la tabella "PROVE DI SERRAGGIO".
- ❷ Individuare il momento ideale tramite comparatore posizionato sul pezzo, quindi procedere nelle lavorazioni richieste.
- ❸ Serrare eventuali particolari simili con la medesima forza di serraggio.

In order to clamp the work-piece in the most proper way it is recommended the use of a torque wrench to be adjusted according to the vise type and the clamping power desired or needed.

## WARNING

For an increased machining accuracy and repetability use the following instructions:

- ❶ Clamp the workpiece with a torque wrench set according to the "CLAMPING TEST" table.
- ❷ Set the right torque through a clock indicator positioned on the workpiece, then proceed with the machining operations.
- ❸ Clamp next similar workpieces with the same clamping power.

## PROVE DI SERRAGGIO / CLAMPING TEST Art.1 & Art1A

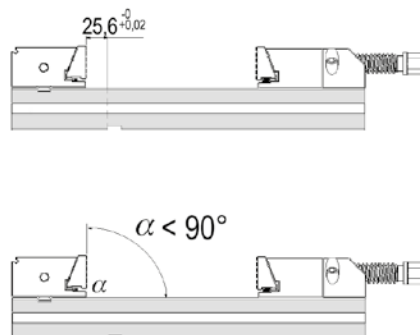
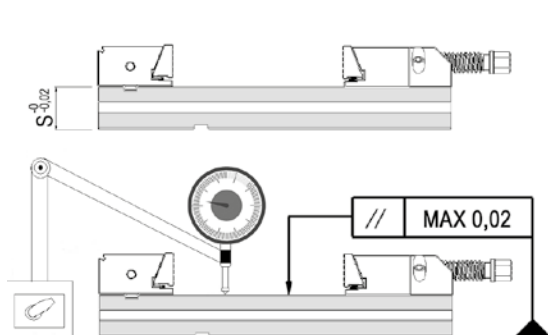
Eseguite a temperatura ambiente (20°) con chiave dinamometrica  
Test made with 20° temperature with torque wrench

**Esempio:** con una morsa TIPO 3, applicando con chiave dinamometrica un momento di 60 Nm, si ottiene una forza di serraggio di 25 Kn  
**Example:** with a vise TYPE 3 (jaw width 150 mm), using torque wrench set at 60 Nm, you can get a clamping power of 25 Kn

|              | Momento applicato<br>Wrench power | Forza di serraggio<br>Clamping Force Nm |
|--------------|-----------------------------------|---|
| <b>1</b>     | 30                                | 10                                      |
|              | 50                                | 16 MAX                                  |
| <b>2</b>     | 20                                | 8                                       |
|              | 40                                | 16                                      |
| <b>3 / 4</b> | 60                                | 25 MAX                                  |
|              | 40                                | 16                                      |
| <b>5 / 6</b> | 60                                | 25                                      |
|              | 80                                | 30 MAX                                  |
|              | 80                                | 30                                      |
|              | 120                               | 40 MAX                                  |

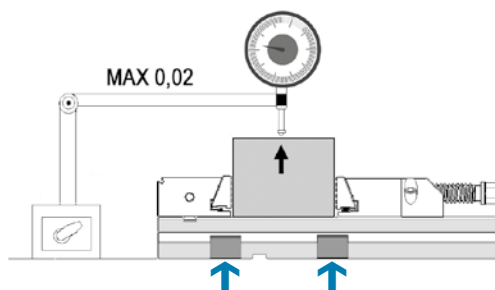
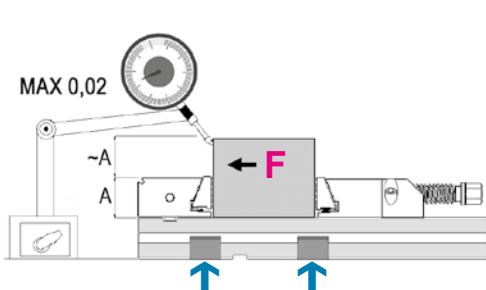
## TOLLERANZE GEOMETRICHE

## GEOMETRIC ACCURACIES



## TOLLERANZE GEOMETRICHE

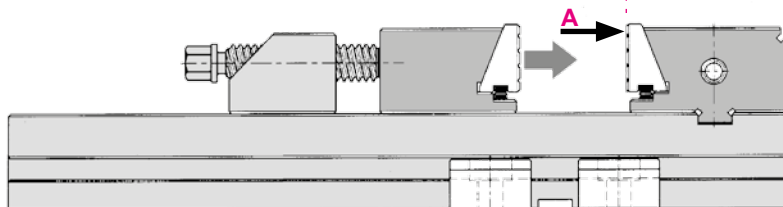
## GEOMETRIC ACCURACIES



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

| 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 |



1 kgf . m = 9.806 Nm



# DIVISORE AUTOMATICO DPG 250

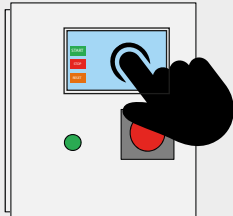
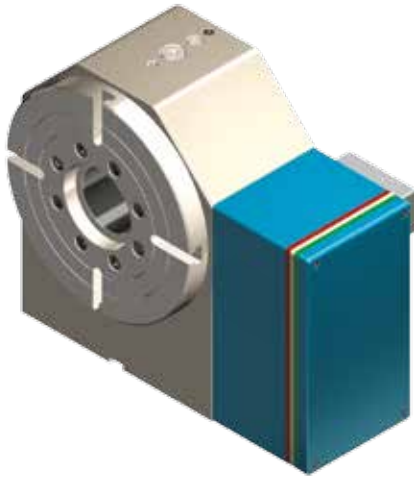
## AUTOMATIC DIVIDING HEAD DPG 250

**NEW!**

Divisore automatico  
Automatic dividing head

DATI TECNICI  
TECHNICAL DATA

**DPG 250**



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

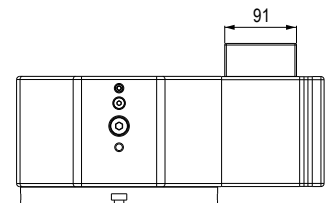
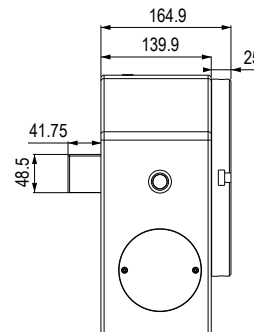
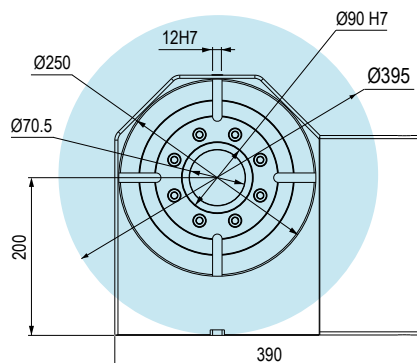
**EASY AND INTUITIVE TOUCH SCREEN**  
PROGRAMMING OR THROUGH DIRECT  
CONNECTION TO THE CNC

- 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°

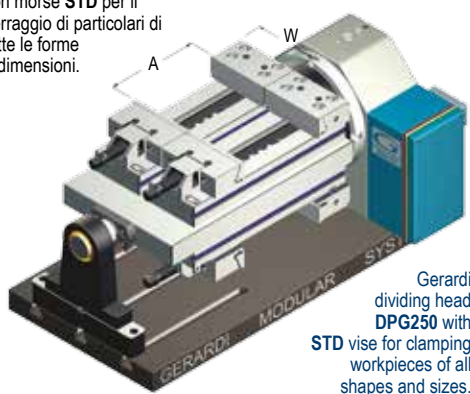
- Easy installation (220V)
- Special bronze crown
- Simple tailstock
- Worm screw in hardened ground steel
- Bath lubrication Screw and Crown
- Pre-loaded screw bearings
- Over-dimensioned crossed-roller front bearing
- Play recover with axial approach
- Watertight seal with possibility of pressurization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


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

**DPG 250**




| Tipo (grandezza) morsa / Vise (type) size<br>Montaggio / Mounting   | 1               |             | 2               |             | 3               |             | 4                |             |             |  |
|---|-----------------|-------------|-----------------|-------------|-----------------|-------------|------------------|-------------|-------------|--|
|   | Doppio / Double |             | Doppio / Double |             | Doppio / Double |             | Singolo / Single |             |             |  |
| Apertura massima / Maximum spread   | A               | 100         | 150             | 200         | 300             | 200         | 300              | 400         | 500         |  |
| Divisore Gerardi DPG250<br>con morse STD per il<br>serraggio di particolari di<br>tutte le forme<br>e dimensioni. | W               | 96          | 121             | 146         |                 | 171         |                  |             |             |  |
|   | W1              |             |                 |             |                 |             |                  |             |             |  |
|   | 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 |  |

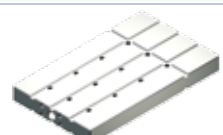

**AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI ! - UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !**

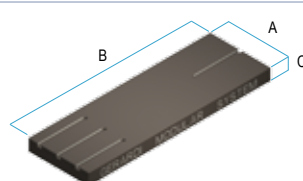
**Art. 99A**  Cod. 7.99.A1000

**Art. 99B**  Cod. 1.99.B1000

**Art. 99H**  Cod. 1.99.H1000

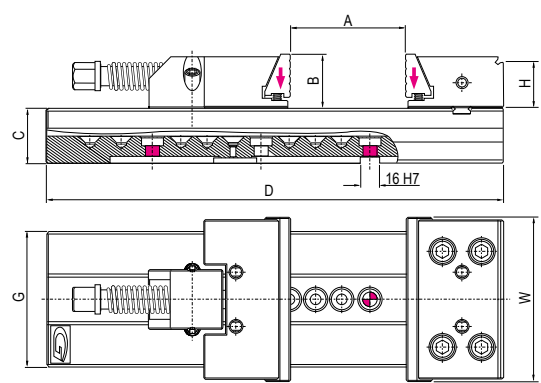
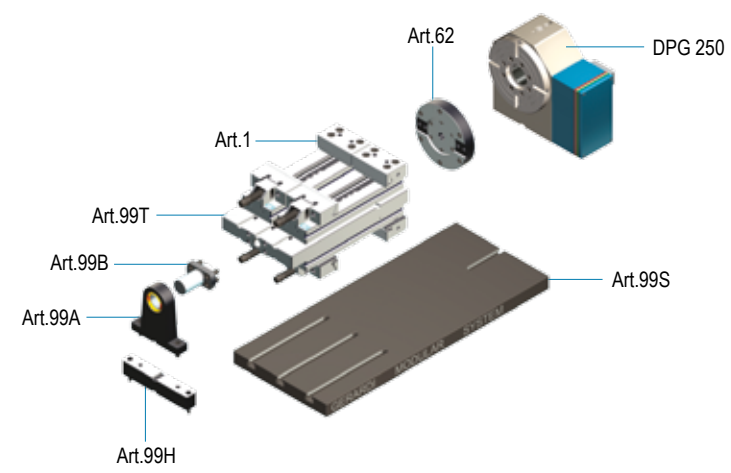
**Art. 62**  
**DPG 250**  Cod. 1.62.DPG25

**Art. 99T**  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

**Art. 99S** 

| Dimensioni B mm / Dimension B mm | A   | C  | Kg  | Cod.       | € |
|----------------------------------|-----|----|-----|------------|---|
| 600                              | 400 | 50 | 94  | 7.99.S060S |   |
| 750                              | 400 | 50 | 117 | 7.99.S075S |   |
| 900                              | 400 | 50 | 141 | 7.99.S090S |   |
| 1100                             | 400 | 50 | 172 | 7.99.S110S |   |

  
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


**NEW!**

 Divisore meccanico  
 Mechanical dividing head

 DATI TECNICI  
 TECHNICAL DATA

### DIVIGER 205

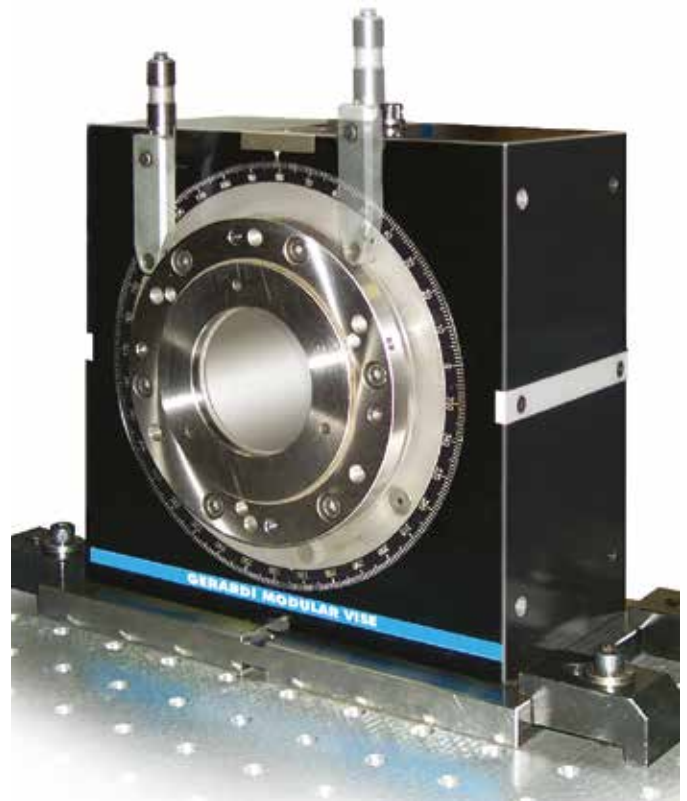


|   |   |
|---|---|
| Diametro del divisore<br>Dividing head diameter       | 220 mm  |
| Diametro del foro passante<br>Clearance hole diameter | 85 mm   |
| Altezza centrale<br>Center height                     | 200 mm  |
| Dimensione della scanalatura a T<br>T-Slot width      | -   |
| Sistema di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

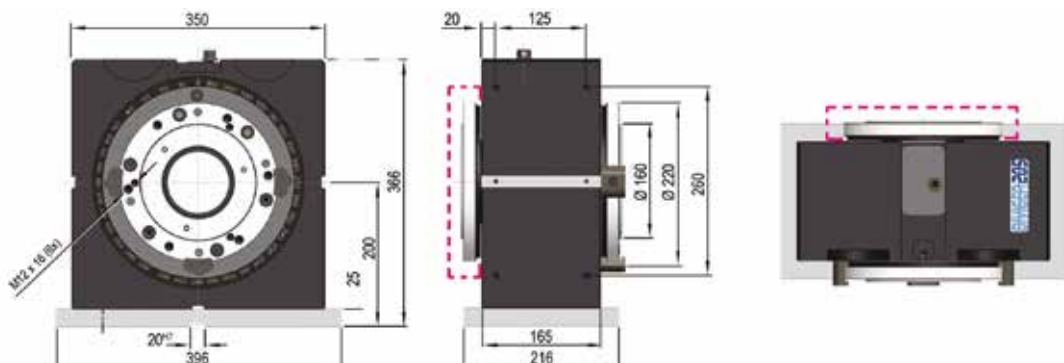
 DIVISORE MECCANICO, SENZA CAVI O IDRAULICA,  
 PERMACCHINE A CNC

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

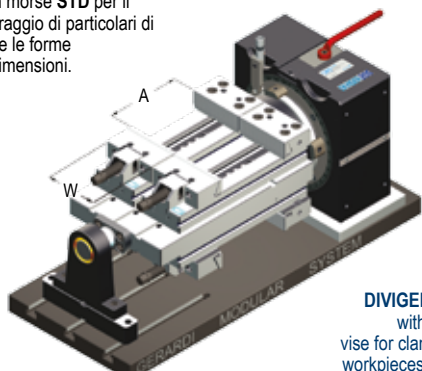
- Maggiore efficienza nella lavorazione su più lati
- Completamente autonomo dalla macchina
- Elevato momento torcente
- Divisione manuale o automatica tramite mandrino macchina
- 360 posizioni
- Serraggio simultaneo di due particolari grazie alla doppia flangia
- lavorazione su 5 facce senza contropunta
- 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) morsa / Vise (type) size<br>Montaggio / Mounting                                   | 1               |             | 2               |             | 3               |             | 4                |             |             |  |
|---|-----------------|-------------|-----------------|-------------|-----------------|-------------|------------------|-------------|-------------|--|
|   | Doppio / Double |             | Doppio / Double |             | Doppio / Double |             | Singolo / Single |             |             |  |
| Apertura massima / Maximum spread   | A               | 100         | 150             | 200         | 300             | 200         | 300              | 400         | 500         |  |
| <b>DIVIGER 205</b><br>con morse STD per il serraggio di particolari di tutte le forme e dimensioni. | W               | 96          | 121             | 146         |                 | 171         |                  |             |             |  |
|   | W1              |             |                 |             |                 |             |                  |             |             |  |
|   | 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.DI.V20500 | 1.DI.V20510     | 1.DI.V20520 | 1.DI.V20530     | 1.DI.V20540 | 1.DI.V20550      | 1.DI.V20560 | 1.DI.V20570 |  |





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

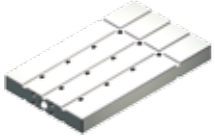
**AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI ! - UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !**

**Art. 99A**  Cod. 7.99.A1000

**Art. 99B**  Cod. 1.99.B1000

**Art. 99H**  Cod. 1.99.H1000

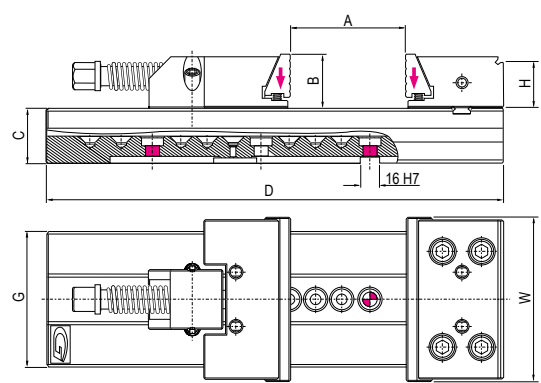
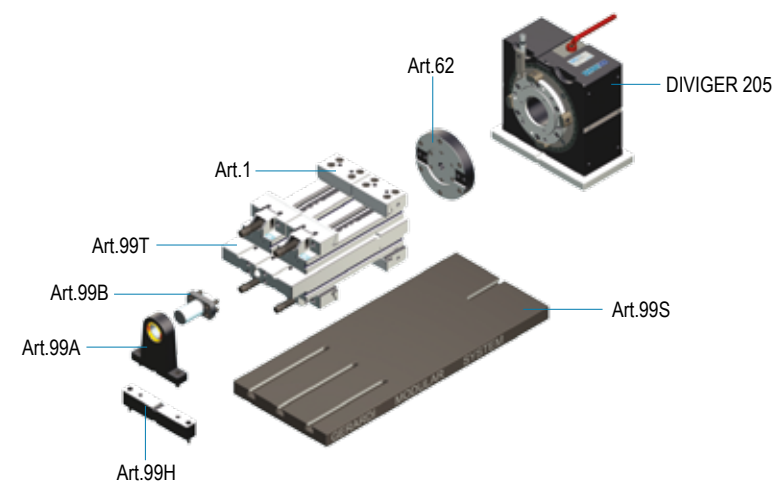
**Art. 62**  
**DIVIGER 205**  Cod. 1.62.DIV205

**Art. 99T**  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

**Art. 99S** 

| Dimensioni B mm / Dimension B mm | A   | C  | Kg  | Cod.       |
|----------------------------------|-----|----|-----|------------|
| 600                              | 400 | 50 | 94  | 7.99.S060S |
| 750                              | 400 | 50 | 117 | 7.99.S075S |
| 900                              | 400 | 50 | 141 | 7.99.S090S |
| 1100                             | 400 | 50 | 172 | 7.99.S110S |

  
 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

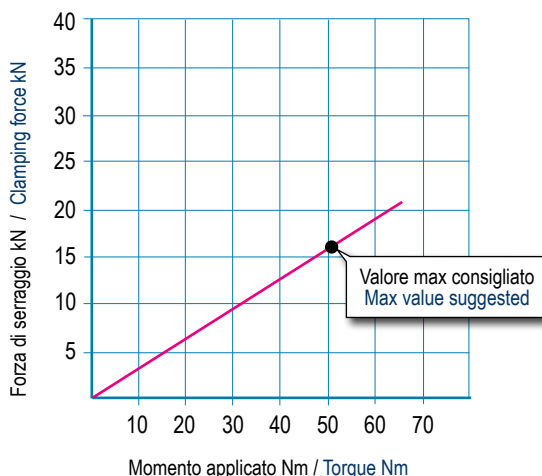
# DIAGRAMMI SERRAGGIO MECCANICO CON CHIAVE DINAMOMETRICA

## DIAGRAMS MECHANICAL CLAMPING WITH TORQUE WRENCH


**Art. 1 / 1A / 700**

### MORSE STD e StandardFLEX TIPO 1

#### STD and StandardFLEX VISES TYPE 1

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


### GRUPPI DI SERRAGGIO MECCANICI

( Art. 258 e similari )

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

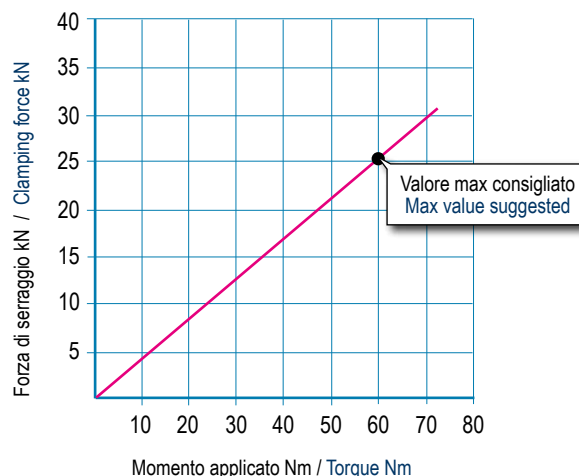
### MECHANICAL CLAMPING DEVICES

( Art. 258 and similar )

The following diagrams give the clamping force that can be obtained with each vise type (size 1 to 6) depending on the torque

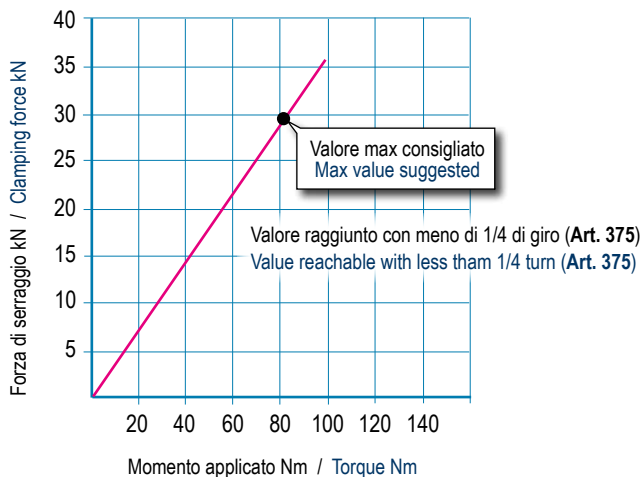
### MORSE STD e StandardFLEX TIPO 2

#### STD and StandardFLEX VISES TYPE 2

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


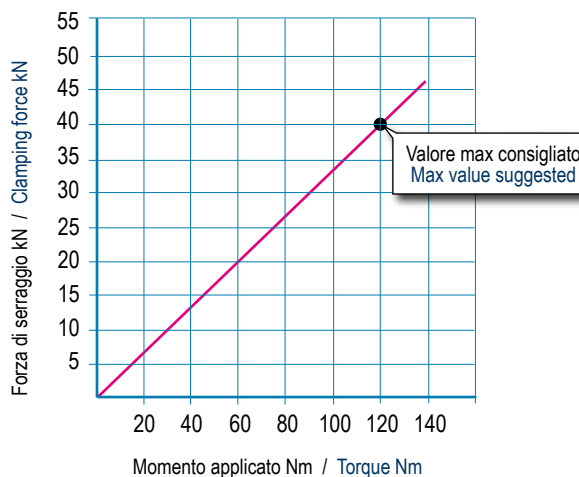
### MORSE STD e StandardFLEX TIPO 3-4

#### STD and StandardFLEX VISES TYPE 3-4

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


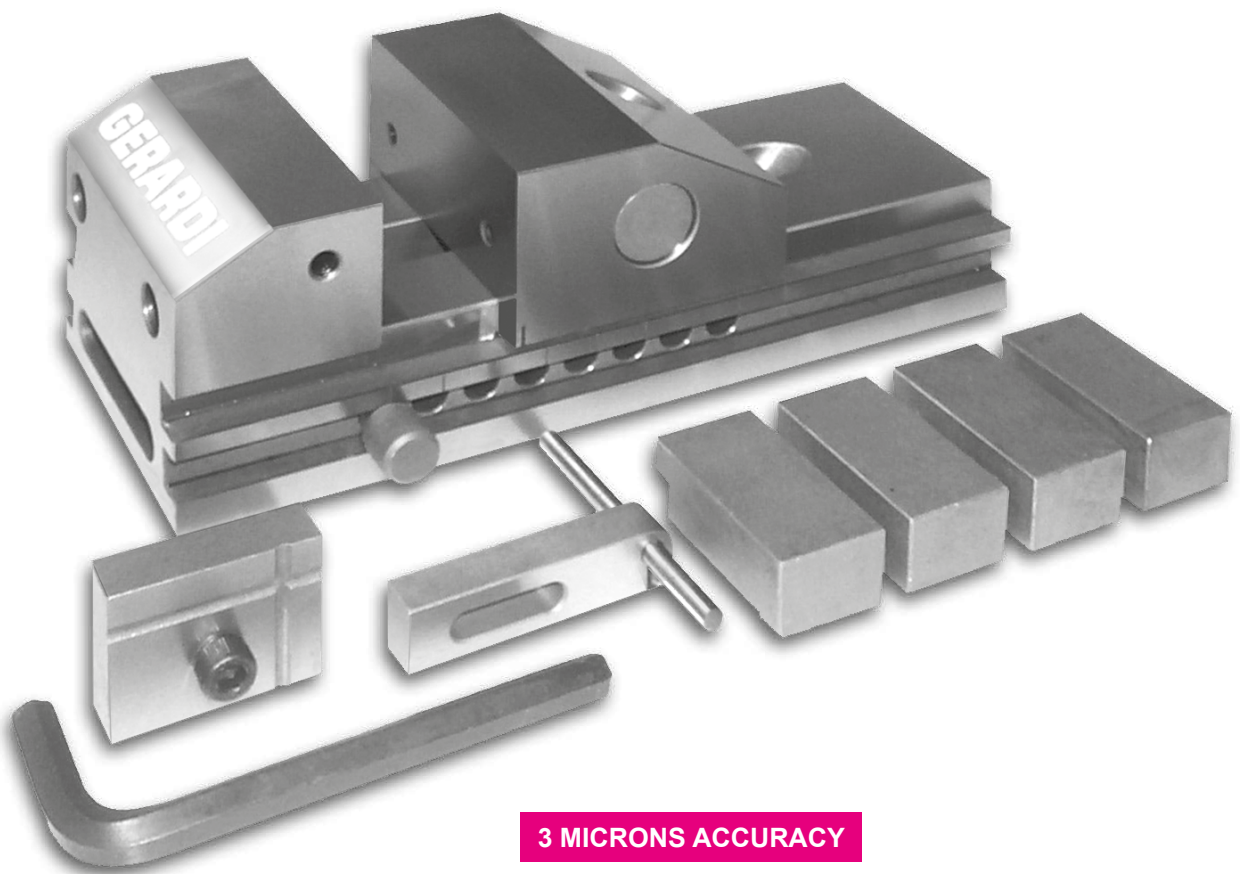
### MORSE STD e StandardFLEX TIPO 5-6

#### STD and StandardFLEX VISES TYPE 5-6

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

 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.

# OK Series MORSE - VISES



# MORSE serie OK, MORSE DI PRECISIONE PER RETTIFICA

## OK series VISES, HIGHEST ACCURACY VISES FOR GRINDING OPERATIONS

Una serie di morse per le esigenze più impegnative nei lavori con le tolleranze più ristrette  
 A series of vises for the highest accuracy machining operations

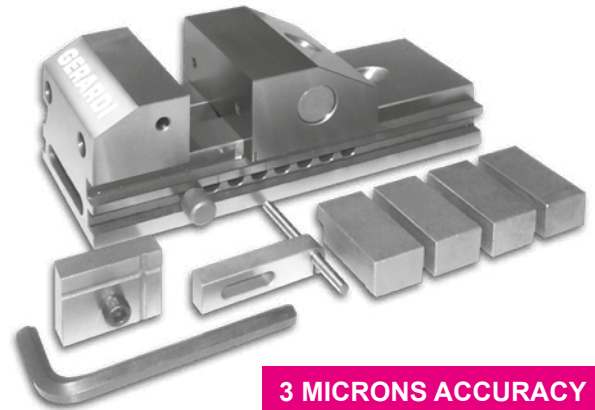
**L' ALTISSIMA PRECISIONE è OK**  
**THE HIGHEST ACCURACY VISE is OK**

### Principali caratteristiche delle morse serie OK

- Superfici rettificate, temperate e lappate
- Ortogonalità e parallelismo: 0,003 mm / 100 mm
- Ideali per operazioni di controllo, rettifica, elettroerosione e fresatura

### Main OK vises technical features

- 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

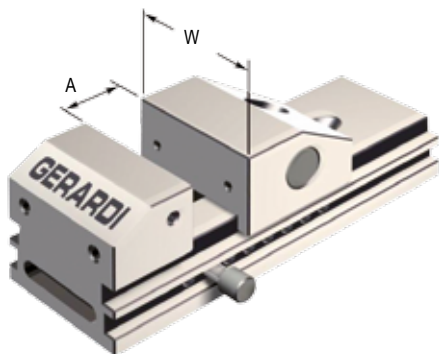


**3 MICRONS ACCURACY**

| 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 |

### Art. 666

Morsa serie OK in acciaio / Series OK vises in steel



### Art. 666S

Morsa serie OK in acciaio Tipo \*X4 CR14 per elettroerosione. Stesse caratteristiche dell' Art. 666

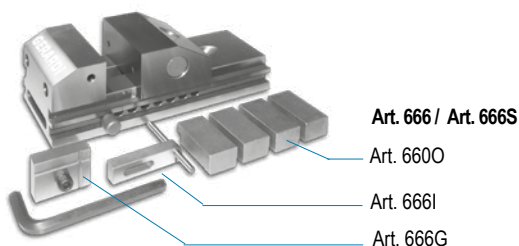
Series OK vises in steel Type \*X4 CR14 for E.D.M. machines. Same characteristic and dimension of the Art. 666

\* Acciaio temprato a basso contenuto di ferro (Max resistenza alla corrosione dopo tempra, rinvenimento 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

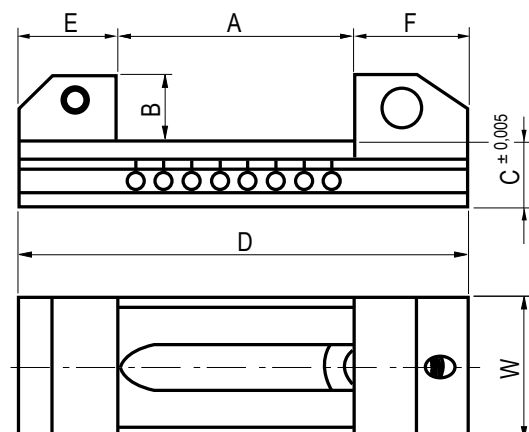
### Dotazione standard:

- 4 staffe di fissaggio Art. 666O
- 1 arresto laterale fisso Art. 666G ■ 1 arresto laterale mobile Art. 666I



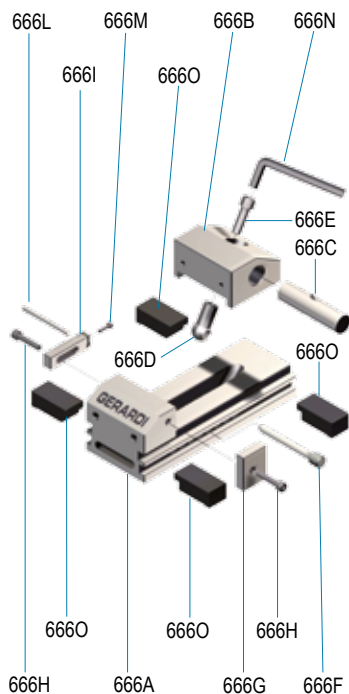
### Standard equipment:

- 4 clamping jaws Art. 666O
- 1 fixed work stop Art. 666G ■ 1 movable work stop Art. 666I



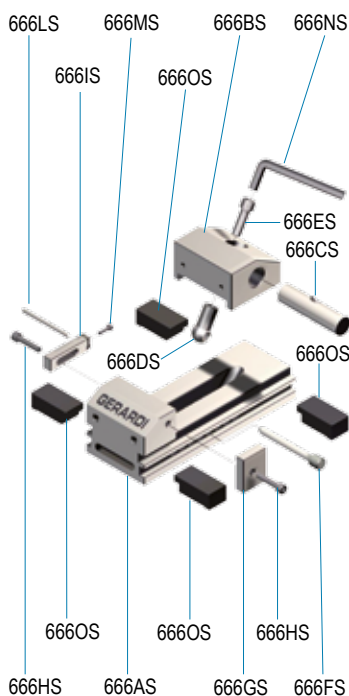


| Tipo (grandezza) morsa / Vise type (size) | 0 | 1 | 2     | 3     | 4     | 5     | 6     | 7     | 8     |
|---|---|---|-------|-------|-------|-------|-------|-------|-------|
|   |   |   | 16 kN | 16 kN | 18 kN | 18 kN | 18 kN | 18 kN | 20 kN |

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


| Art. 666A | Cod. | 7.66.6A000 | 7.66.6A100 | 7.66.6A200 | 7.66.6A300 | 7.66.6A400 | 7.66.6A500 | 7.66.6A600 | 7.66.6A700 | 7.66.6A800 |
|-----------|------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Art. 666B | Cod. | 7.66.6B000 | 7.66.6B100 | 7.66.6B200 | 7.66.6B300 | 7.66.6B400 | 7.66.6B500 | 7.66.6B600 | 7.66.6B700 | 7.66.6B800 |
| Art. 666C | Cod. | 7.66.6C000 | 7.66.6C100 | 7.66.6C200 | 7.66.6C300 | 7.66.6C400 | 7.66.6C500 | 7.66.6C600 | 7.66.6C700 | 7.66.6C800 |
| Art. 666D | Cod. | 7.66.6D000 | 7.66.6D100 | 7.66.6D200 | 7.66.6D300 | 7.66.6D400 | 7.66.6D500 | 7.66.6D600 | 7.66.6D700 | 7.66.6D800 |
| Art. 666E | Cod. | 7.66.6E000 | 7.66.6E100 | 7.66.6E200 | 7.66.6E300 | 7.66.6E400 | 7.66.6E500 | 7.66.6E600 | 7.66.6E700 | 7.66.6E800 |
| Art. 666F | Cod. | 7.66.6F000 | 7.66.6F100 | 7.66.6F200 | 7.66.6F300 | 7.66.6F400 | 7.66.6F500 | 7.66.6F600 | 7.66.6F700 | 7.66.6F800 |
| Art. 666G | Cod. | 7.66.6G000 | 7.66.6G100 | 7.66.6G200 | 7.66.6G300 | 7.66.6G400 | 7.66.6G500 | 7.66.6G600 | 7.66.6G700 | 7.66.6G800 |
| Art. 666H | Cod. | 7.66.6H000 | 7.66.6H100 | 7.66.6H200 | 7.66.6H300 | 7.66.6H400 | 7.66.6H500 | 7.66.6H600 | 7.66.6H700 | 7.66.6H800 |
| Art. 666I | Cod. | 7.66.6I000 | 7.66.6I100 | 7.66.6I200 | 7.66.6I300 | 7.66.6I400 | 7.66.6I500 | 7.66.6I600 | 7.66.6I700 | 7.66.6I800 |
| Art. 666L | Cod. | 7.66.6L000 | 7.66.6L100 | 7.66.6L200 | 7.66.6L300 | 7.66.6L400 | 7.66.6L500 | 7.66.6L600 | 7.66.6L700 | 7.66.6L800 |
| Art. 666M | Cod. | 7.66.6M000 | 7.66.6M100 | 7.66.6M200 | 7.66.6M300 | 7.66.6M400 | 7.66.6M500 | 7.66.6M600 | 7.66.6M700 | 7.66.6M800 |
| Art. 666N | Cod. | 7.66.6N000 | 7.66.6N100 | 7.66.6N200 | 7.66.6N300 | 7.66.6N400 | 7.66.6N500 | 7.66.6N600 | 7.66.6N700 | 7.66.6N800 |
| Art. 666O | Cod. | 7.66.6O000 | 7.66.6O100 | 7.66.6O200 | 7.66.6O300 | 7.66.6O400 | 7.66.6O500 | 7.66.6O600 | 7.66.6O700 | 7.66.6O800 |

| 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. 666AS | Cod. | 7.66.6AS00 | 7.66.6AS10 | 7.66.6AS20 | 7.66.6AS30 | 7.66.6AS40 | 7.66.6AS50 | 7.66.6AS60 | 7.66.6AS70 | 7.66.6AS80 |
|------------|------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Art. 666BS | Cod. | 7.66.6BS00 | 7.66.6BS10 | 7.66.6BS20 | 7.66.6BS30 | 7.66.6BS40 | 7.66.6BS50 | 7.66.6BS60 | 7.66.6BS70 | 7.66.6BS80 |
| Art. 666CS | Cod. | 7.66.6CS00 | 7.66.6CS10 | 7.66.6CS20 | 7.66.6CS30 | 7.66.6CS40 | 7.66.6CS50 | 7.66.6CS60 | 7.66.6CS70 | 7.66.6CS80 |
| Art. 666DS | Cod. | 7.66.6DS00 | 7.66.6DS10 | 7.66.6DS20 | 7.66.6DS30 | 7.66.6DS40 | 7.66.6DS50 | 7.66.6DS60 | 7.66.6DS70 | 7.66.6DS80 |
| Art. 666ES | Cod. | 7.66.6ES00 | 7.66.6ES10 | 7.66.6ES20 | 7.66.6ES30 | 7.66.6ES40 | 7.66.6ES50 | 7.66.6ES60 | 7.66.6ES70 | 7.66.6ES80 |
| Art. 666FS | Cod. | 7.66.6FS00 | 7.66.6FS10 | 7.66.6FS20 | 7.66.6FS30 | 7.66.6FS40 | 7.66.6FS50 | 7.66.6FS60 | 7.66.6FS70 | 7.66.6FS80 |
| Art. 666GS | Cod. | 7.66.6GS00 | 7.66.6GS10 | 7.66.6GS20 | 7.66.6GS30 | 7.66.6GS40 | 7.66.6GS50 | 7.66.6GS60 | 7.66.6GS70 | 7.66.6GS80 |
| Art. 666HS | Cod. | 7.66.6HS00 | 7.66.6HS10 | 7.66.6HS20 | 7.66.6HS30 | 7.66.6HS40 | 7.66.6HS50 | 7.66.6HS60 | 7.66.6HS70 | 7.66.6HS80 |
| Art. 666IS | Cod. | 7.66.6IS00 | 7.66.6IS10 | 7.66.6IS20 | 7.66.6IS30 | 7.66.6IS40 | 7.66.6IS50 | 7.66.6IS60 | 7.66.6IS70 | 7.66.6IS80 |
| Art. 666LS | Cod. | 7.66.6LS00 | 7.66.6LS10 | 7.66.6LS20 | 7.66.6LS30 | 7.66.6LS40 | 7.66.6LS50 | 7.66.6LS60 | 7.66.6LS70 | 7.66.6LS80 |
| Art. 666MS | Cod. | 7.66.6MS00 | 7.66.6MS10 | 7.66.6MS20 | 7.66.6MS30 | 7.66.6MS40 | 7.66.6MS50 | 7.66.6MS60 | 7.66.6MS70 | 7.66.6MS80 |
| Art. 666NS | Cod. | 7.66.6NS00 | 7.66.6NS10 | 7.66.6NS20 | 7.66.6NS30 | 7.66.6NS40 | 7.66.6NS50 | 7.66.6NS60 | 7.66.6NS70 | 7.66.6NS80 |
| Art. 666OS | Cod. | 7.66.6OS00 | 7.66.6OS10 | 7.66.6OS20 | 7.66.6OS30 | 7.66.6OS40 | 7.66.6OS50 | 7.66.6OS60 | 7.66.6OS70 | 7.66.6OS80 |



| Tipo (grandezza) morsa / Vise type (size)           |    | 1          | 2          |
|---|----|------------|------------|
| Apertura massima / Maximum spread                   | A  | 130        | 130        |
| Forza di serraggio / Clamping force                 | kN | 15         | 30         |
| <b>Art. 671</b> Morse pneumatiche / Pneumatic vises | W  | 105        | 130        |
|   | B  | 40         | 45         |
|   | C  | 105        | 110        |
|   | D  | 317        | 370        |
|   | E  | 130        | 160        |
| kg  |    | 29,5       | 42         |
| Cod.  |    | 1.67.11000 | 1.67.12000 |

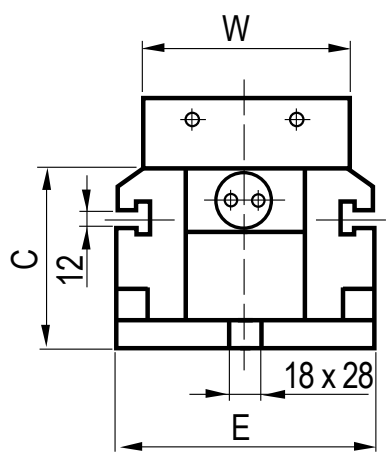
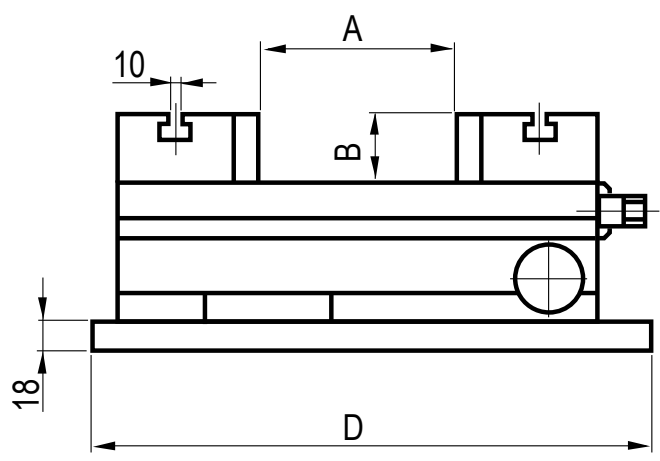
 Ingresso aria 3/4" gas - Ø 8 - 7bar  
 Air inlet 3/4" gas - Ø 8 - 7bar


Tipo / Type 1



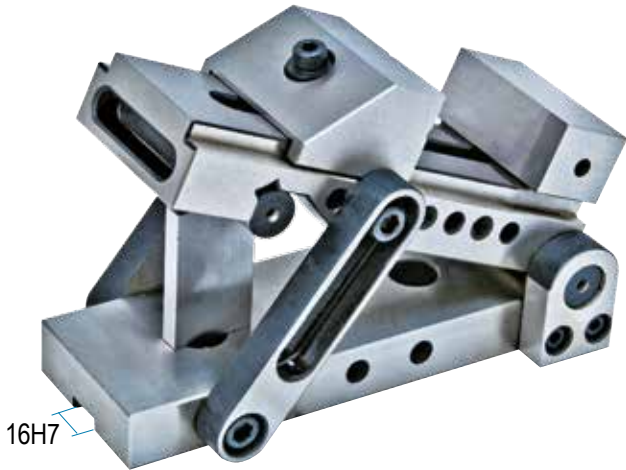
Tipo / Type 2

- Costruita in acciaio di alta qualità, cementato e temprato  
Durezza HRC58-62
- Ortogonalità e parallelismo: 0,02 mm
- Superfici rettificate, temprate e lappate
- Utilizzabili con pressione aria a 6bar (Connessione 1/4" gas)
- Made in high-quality alloy steel, case harden HRC58-62
- Squareness and parallelism: 0,02 mm
- Ideal for grinding E.D.M. machine and for milling operations also for checking and control
- Rating air pressure is 6bar (Air inlet - 1/4 " gas)

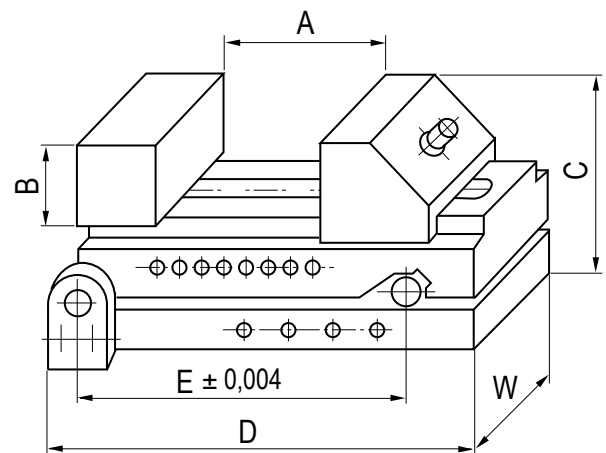
 Dotazione standard: 1 arresto laterale Art. 370  
 Raccordo per aria (1/4" gas - Ø8) Art. PN04  
 Standard equipment: Workstop Art 370  
 Air connection (1/4" gas - Ø8) Art. PN04


| Tipo (grandezza) morsa / Vise type (size)   | 1    | 2          | 3          |            |
|---|------|------------|------------|------------|
| Apertura massima / Maximum spread   | A    | 100        | 120        | 160        |
| <b>Art. 667</b> Morse di precisione con barraseno (0 - 90°)<br>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 |
|   |      |            |            |            |
|   |      |            |            |            |
|   |      |            |            |            |

- 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

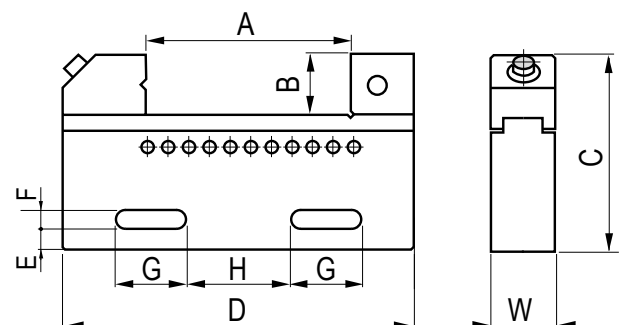


| Tipo (grandezza) morsa / Vise type (size)  | 1    | 2          | 3          |            |
|--|------|------------|------------|------------|
| Apertura massima / Maximum spread  | A    | 100        | 150        | 214        |
| <b>Art. 668</b> Morse di precisione in acciaio inox<br>Stainless steel 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 |
|  |      |            |            |            |
|  |      |            |            |            |

- 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



# MORSE per RETTIFICA

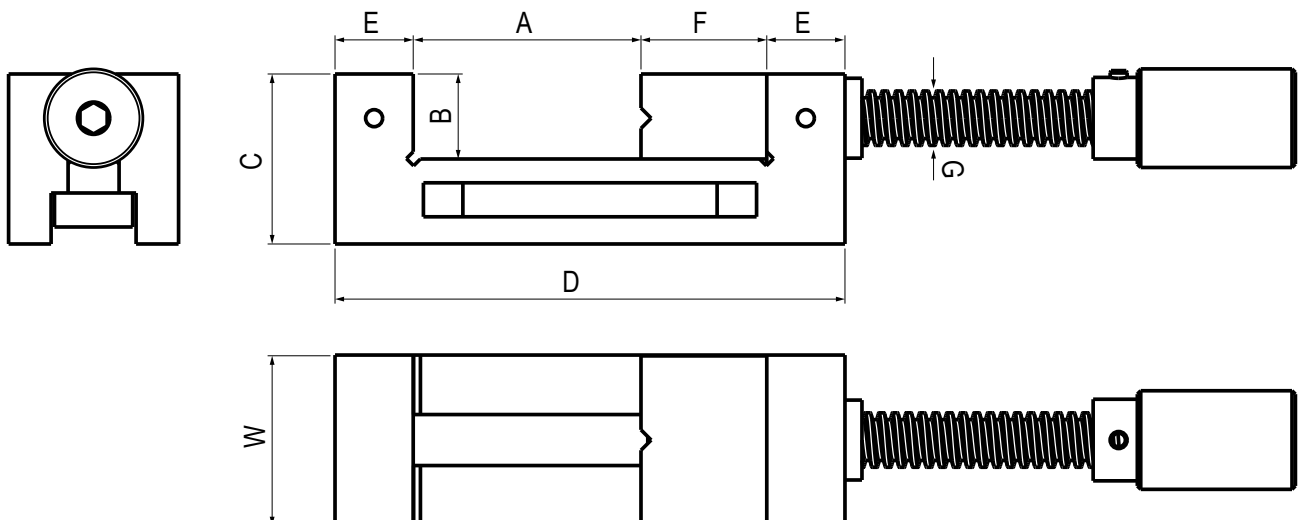
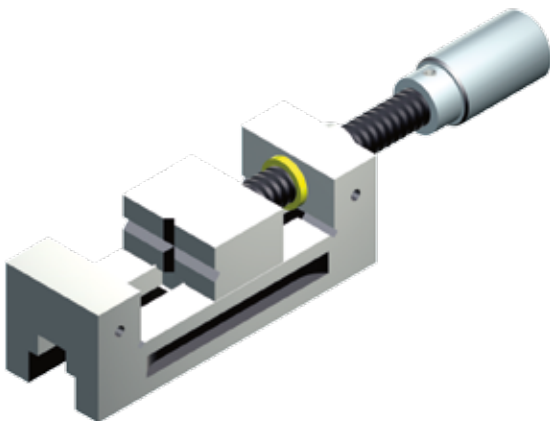
## GRINDING VISES

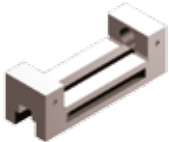









**3 MICRONS ACCURACY**

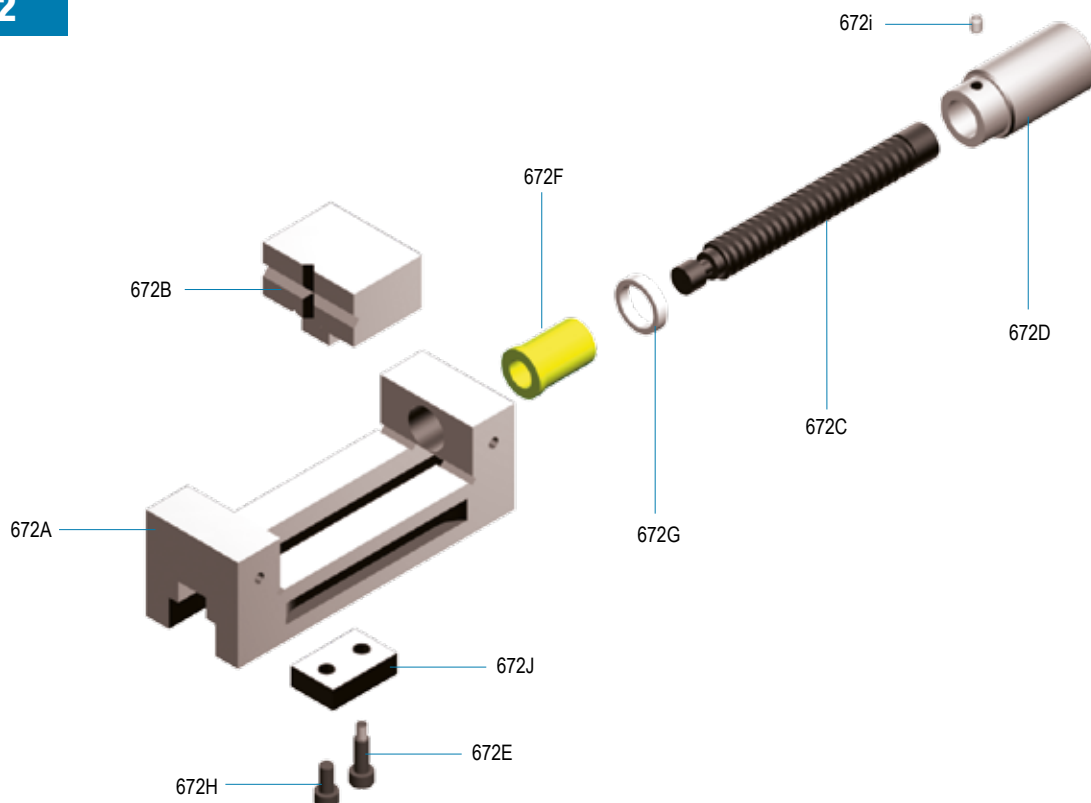
**Una morsa estremamente precisa, adatta a lavorazioni di rettifica**  
**High precision vise ideal for grinding operations**

- 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:  $\pm 0.003$  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:  $\pm 0.003$  mm

| Tipo (grandezza) morsa / Vise type (size)            | 1    | 2          | 3          | 4          | 5          | 6          | 7          |            |
|--|------|------------|------------|------------|------------|------------|------------|------------|
| Apertura massima / Maximum spread                    | A    | 67         | 87         | 102        | 102        | 127        | 160        | 170        |
| <b>Art. 672</b>                                      | W    | 50         | 63         | 73         | 80         | 100        | 125        | 150        |
| Morsa serie OK in acciaio / Series OK vises in steel | B    | 25         | 31         | 35         | 40         | 45         | 50         | 50         |
|  | C    | 50         | 63         | 70         | 80         | 90         | 100        | 100        |
|  | D    | 150        | 185        | 205        | 215        | 255        | 315        | 350        |
|  | E    | 23         | 28         | 28         | 33         | 38         | 38         | 40         |
|  | F    | 37         | 42         | 47         | 47         | 52         | 79         | 100        |
|  | G    |            |            |            |            |            |            |            |
|  | H    | 215        | 250        | 280        | 390        | 330        | 364        | 399        |
|  | kg   | 2,7        | 3,7        | 5,3        | 6,5        | 11,1       | 18,5       | 21         |
|  | Cod. | 1.67.21000 | 1.67.22000 | 1.67.23000 | 1.67.24000 | 1.67.25000 | 1.67.26000 | 1.67.27000 |



| Tipo (grandezza) morsa / Vise type (size)                    |  | 1               | 2          | 3          | 4          | 5          | 6          | 7          |
|--|--|-----------------|------------|------------|------------|------------|------------|------------|
|  |  | kN              |            |            |            |            |            |            |
| Base Morsa<br>Vise Base                                      |  <b>Art. 672A</b>   | Cod. 1.67.2A100 | 1.67.2A200 | 1.67.2A300 | 1.67.2A400 | 1.67.2A500 | 1.67.2A600 | 1.67.2A700 |
| Ganascia Mobile<br>Movable Jaw                               |  <b>Art. 672B</b>   | Cod. 1.67.2B100 | 1.67.2B200 | 1.67.2B300 | 1.67.2B400 | 1.67.2B500 | 1.67.2B600 | 1.67.2B700 |
| Vite di Spinta<br>Main Screw                                 |  <b>Art. 672C</b>   | Cod. 1.67.2C100 | 1.67.2C200 | 1.67.2C300 | 1.67.2C400 | 1.67.2C500 | 1.67.2C600 | 1.67.2C700 |
| Impugnatura Vite<br>Handle screw                             |  <b>Art. 672D</b>   | Cod. 1.67.2D100 | 1.67.2D200 | 1.67.2D300 | 1.67.2D400 | 1.67.2D500 | 1.67.2D600 | 1.67.2D700 |
| Vite calibrata ganascia mobile<br>Movable jaw shoulder screw |  <b>Art. 672E</b>   | Cod. 1.67.2E100 | 1.67.2E200 | 1.67.2E300 | 1.67.2E400 | 1.67.2E500 | 1.67.2E600 | 1.67.2E700 |
| Boccola<br>Bushing   |  <b>Art. 672F</b>   | Cod. 1.67.2F100 | 1.67.2F200 | 1.67.2F300 | 1.67.2F400 | 1.67.2F500 | 1.67.2F600 | 1.67.2F700 |
| Ghiera<br>Nut  |  <b>Art. 672G</b>   | Cod. 1.67.2G100 | 1.67.2G200 | 1.67.2G300 | 1.67.2G400 | 1.67.2G500 | 1.67.2G600 | 1.67.2G700 |
| Vite<br>Screw  |  <b>Art. 672H</b>  | Cod. 1.67.2H100 | 1.67.2H200 | 1.67.2H300 | 1.67.2H400 | 1.67.2H500 | 1.67.2H600 | 1.67.2H700 |
| Vite<br>Screw  |  <b>Art. 672I</b> | Cod. 1.67.2I100 | 1.67.2I200 | 1.67.2I300 | 1.67.2I400 | 1.67.2I500 | 1.67.2I600 | 1.67.2I700 |
| Pattino ganascia mobile<br>Sliding plate for movable jaw     |  <b>Art. 672J</b> | Cod. 1.67.2J100 | 1.67.2J200 | 1.67.2J300 | 1.67.2J400 | 1.67.2J500 | 1.67.2J600 | 1.67.2J700 |

**Art. 672**


# DIAGRAMMI SERRAGGIO MECCANICO CON CHIAVE DINAMOMETRICA

## DIAGRAMS MECHANICAL CLAMPING WITH TORQUE WRENCH


**Art. 666 / Art. 666S**

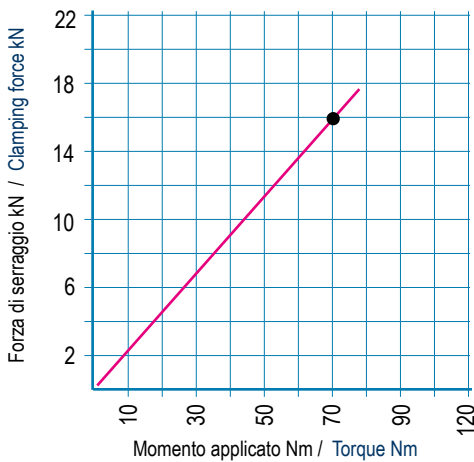
I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con le morse di varia grandezza (da 2 a 8), in funzione del momento applicato

The following diagrams give the clamping force that can be obtained with each vise type (size 2 to 8) depending on the torque

### MORSE OK TIPO 2

#### OK VISES TYPE

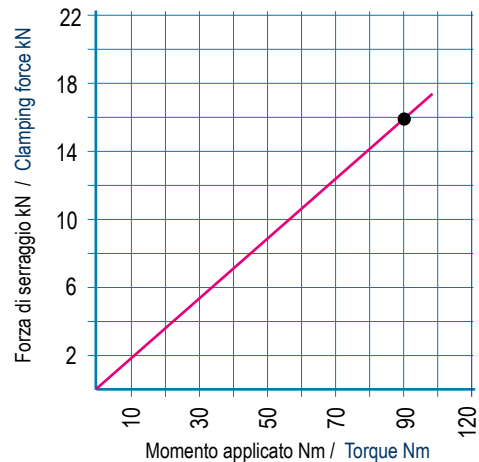
Chiave dinamometrica BETA 610/10X  
 Torque wrench BETA 610/10X



### MORSE OK TIPO 3

#### OK VISES TYPE

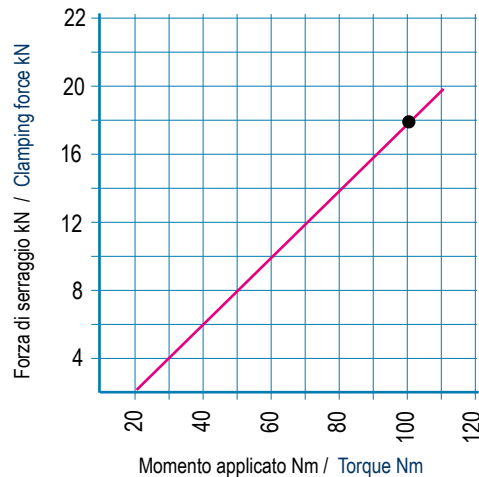
Chiave dinamometrica BETA 610/10X  
 Torque wrench BETA 610/10X



### MORSE OK TIPO 4-5-6-7

#### OK VISES TYPE

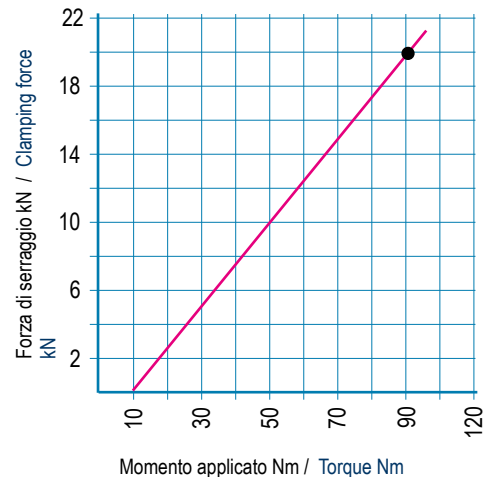
Chiave dinamometrica BETA 610/10X  
 Torque wrench BETA 610/10X



### MORSE OK TIPO 8

#### OK VISES TYPE

Chiave dinamometrica BETA 610/10X  
 Torque wrench BETA 610/10X



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.