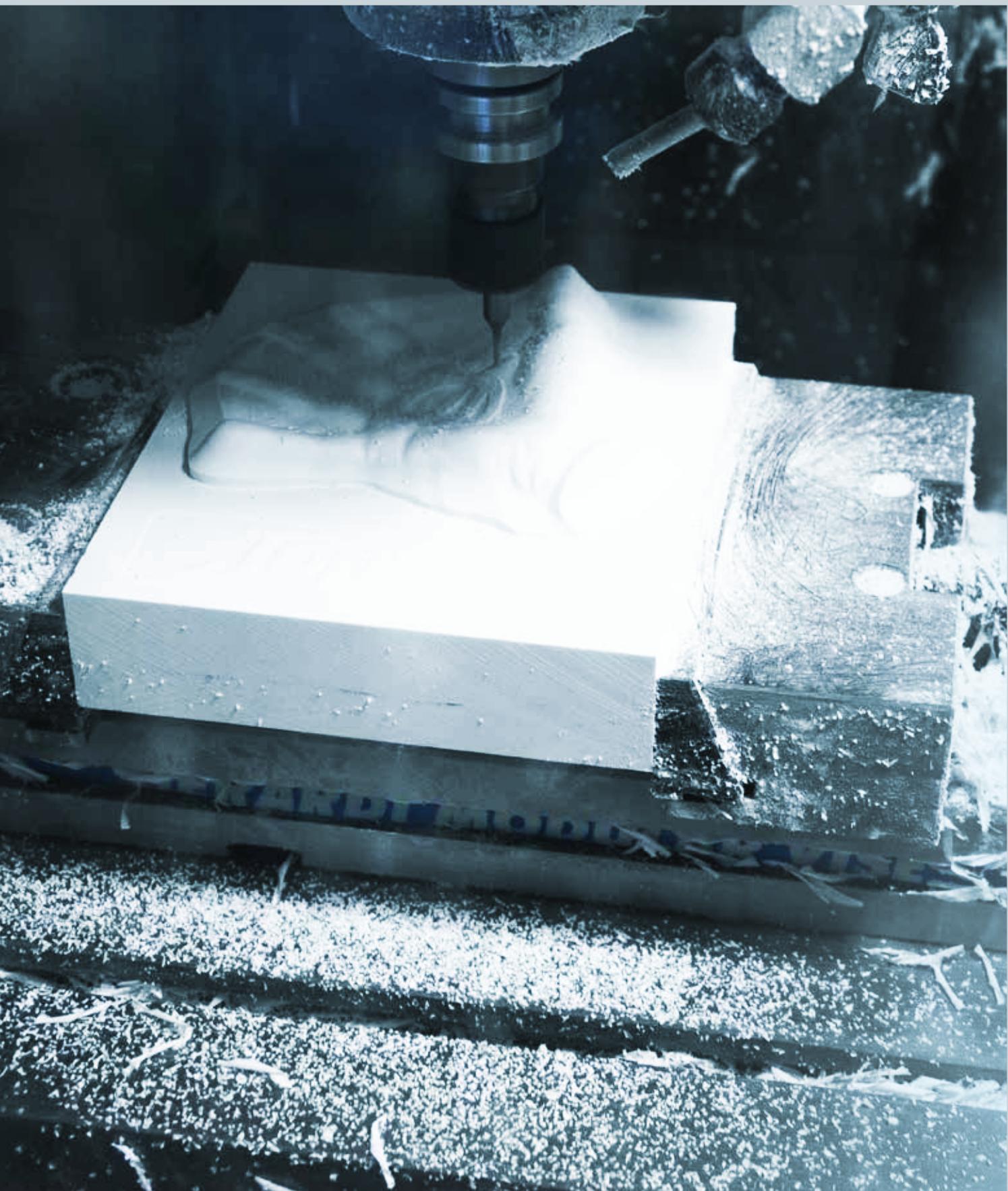


**STD / StdFLEX / OK Series  
MORSE - VISES**



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# VALIGETTA DI CAMPIONATURA STD (Art.1)

## SAMPLE KIT CASE STD (Art.1)

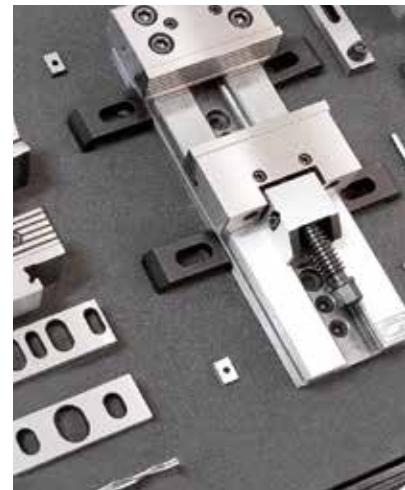
NEW!

**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.133		Art.314
	Art.138		Art.271
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-	-	-	-



## SIMBOLOGIA DATI TECNICI

## TECHNICAL DATA ICONS

GANASCE JAWS						
PIASTRE GANASCE JAW PLATES						
POSSIBILITÀ DI POSSIBILITY OF						
PAGINE PAGES						

# 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 ganascia fissa, la perpendicolarità della ganascia fissa rispetto alla base ed il parallelismo dei piani della base. Tali caratteristiche consentono di risolverei 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 ganascia) 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 attrezature 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).



### RAPIDITÀ DEI SERRAGGI

Grazie allo scorriamento del gruppo di serraggio (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 clamping range.**

## 2 PRECISIONI ± 0,02 mm

Slitton base with all the sliding and coupling surfaces ground and rettificate. The 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.**

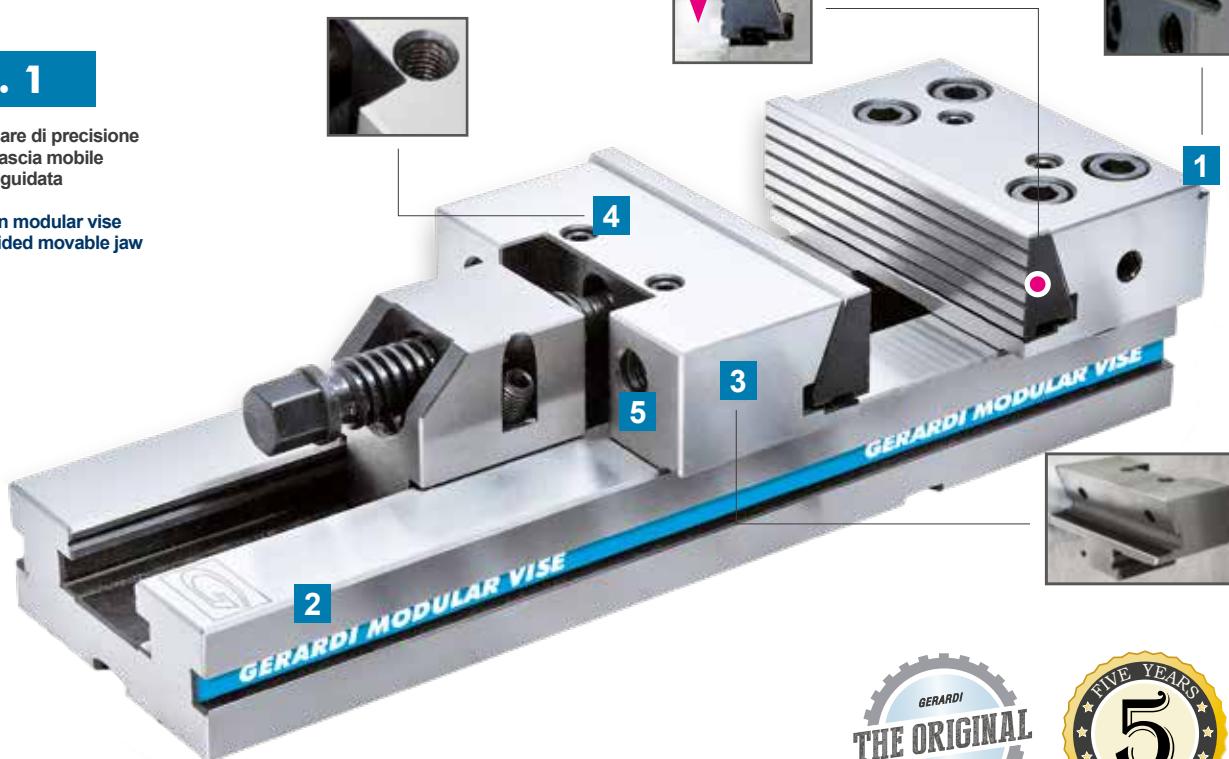
## 2 HIGHEST ACCURACIES ± 0,02 mm

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 costrate 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

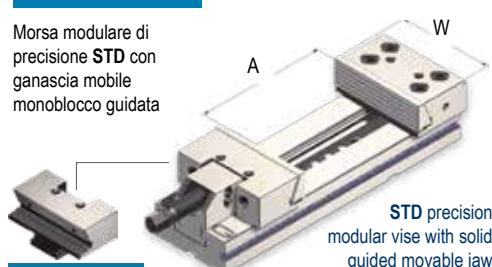
## 5 INCREMENTO APERTURA MASSIMA

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).

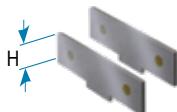
Tipo (grandezza) morsa / Vise type (size)	kN	1		2		3		4			
		16 kN	25 kN	25 kN	30 kN	400	500				
Apertura massima / Maximum spread	A	100	150	200	300	200	300	400	500		
	W	100	125		150			175			
	B	30	40		50			60			
	C	35	40		50			58			
	D	270	345	420	520	455	555	655	755		
	G	75	95		125			145			
	kg	6.8	12.9	25.5	29	37	42	47	52		
	Cod.	3.01.00000	3.02.10000	3.03.20000	3.03.30000	3.04.20000	3.04.30000	3.04.40000	3.04.50000		
Monoblocco - Solid											



## AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

## Art. 313

Piastra magnetica parallela piana  
Magnetic parallel plates



Cod. 4.31.31000 4.31.32000 4.31.33000 4.31.34000

H 23 33 43 53

## Art. 212

Ganascia mobile intermedia  
(da usare con Art. 313)  
Intermediate movable jaw (to be used with Art. 313)



Cod. 1.21.21000 1.21.22000 1.21.23000 1.21.24000

## Art. 217

Ganascia mobile prismatica  
Prismatic movable jaw



Cod. 2.21.71000 2.21.72000 2.21.73000 2.21.74000

## Art. 242G NEW!

Piastra ganascia con inserti GRIP  
Jaw plate with GRIP inserts



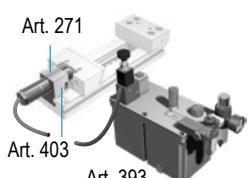
Cod. 1.24.2G100 1.24.2G200 1.24.2G300 1.24.2G400

## Art. 271

Supporto di serraggio con cilindro idraulico  
Clamping support with hydraulic cylinder



Cod. 2.27.11000 2.27.12000 2.27.13000 2.27.14000

Art. 391  
CNC / CNCArt. 392  
Pneumatico / Air control

Cod. 4.39.11000 4.39.12000 4.39.13000 4.39.14000

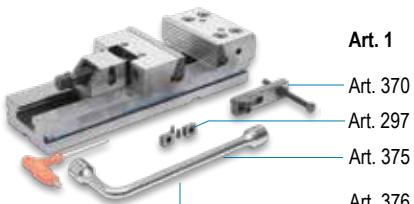
Cod. 4.39.21000 4.39.22000 4.39.23000 4.39.24000

Servocomandi oleopneumatici (completi di 1 cilindro e supporto) per serraggi multipli contemporanei o indipendenti, da 2 a 6 morse. Vedi da pag. 4.38 a 4.49

## 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

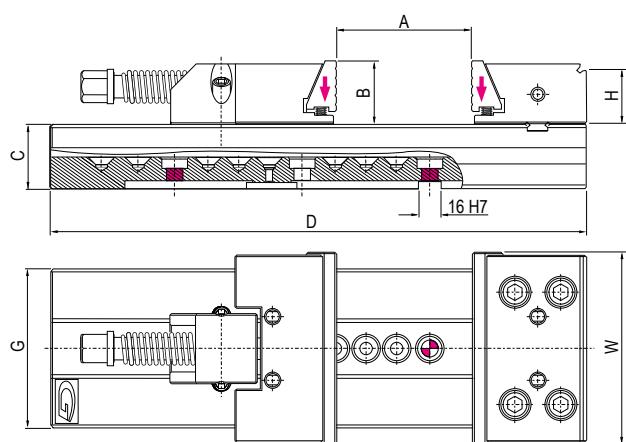
Extra per ogni foro calibrato (toleranza F7):



## 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):

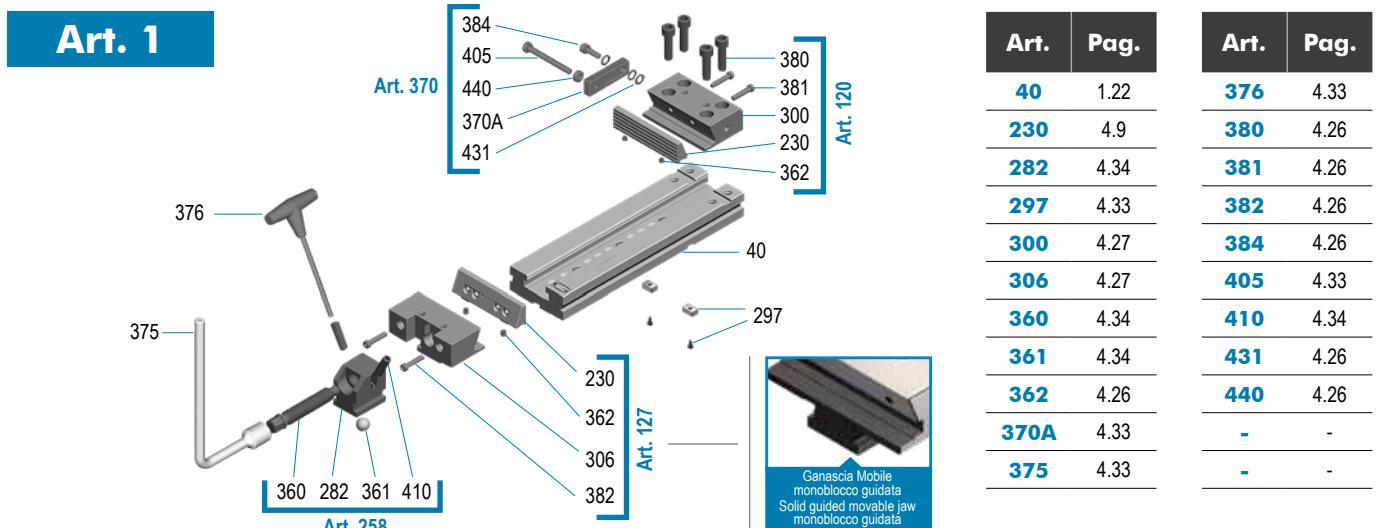


Vedi gruppo 4 per gamma completa accessori  
See group 4 for complete range of accessories

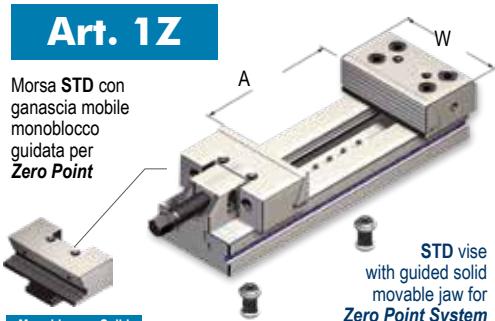
**UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !**

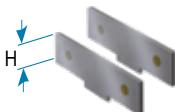


Pneumo-hydraulic servo units (complete of hydraulic cylinder + support) for multiple clamping *simultaneous* or *independent*, from 2 to 6 vises. See from page 4.38 to 4.49



Tipo (grandezza) morsa / Vise type (size)	kN	1		2		3		4			
		16 kN	25 kN	25 kN	30 kN	30 kN	30 kN	30 kN	30 kN	400	500
Apertura massima / Maximum spread	A	100	150	200	300	200	300	400	500		
	W	100	125		150					175	
<b>Art. 1Z</b>	B	30	40		50					60	
Morsa STD con ganascia mobile monoblocco guidata per <b>Zero Point</b>	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	11Z.43000	1.1Z.44000	1.1Z.45000		
<b>Monoblocco - Solid</b>											

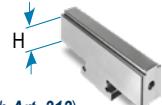

**AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !**
**Art. 313**

 Piastra magnetica parallela piane  
 Magnetic parallel plates


Cod.	4.31.31000	4.31.32000	4.31.33000	4.31.34000
H	23	33	43	53

 Vedi pagina 4.20 per altezze disponibili  
 See page 4.20 for available height

**Art. 212**

 Ganascia mobile intermedia  
 (da usare con Art. 313)  
 Intermediate movable jaw (to be used with Art. 313)


Cod.	1.21.21000	1.21.22000	1.21.23000	1.21.24000
H				

**Art. 217**

 Ganascia mobile prismatica  
 Prismatic movable jaw


Cod.	2.21.71000	2.21.72000	2.21.73000	2.21.74000
H				

**Art. 242G** NEW!

 Piastra ganascia con inserti GRIP  
 Jaw plate with GRIP inserts


Cod.	1.24.2G100	1.24.2G200	1.24.2G300	1.24.2G400
H				

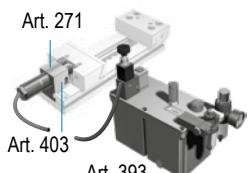
**Art. 271**

 Supporto di serraggio con cilindro idraulico  
 Clamping support with hydraulic cylinder


Cod.	2.27.11000	2.27.12000	2.27.13000	2.27.14000
H				

**Art. 391**

CNC / CNC



Cod.	4.39.11000	4.39.12000	4.39.13000	4.39.14000
H				

**Art. 392**

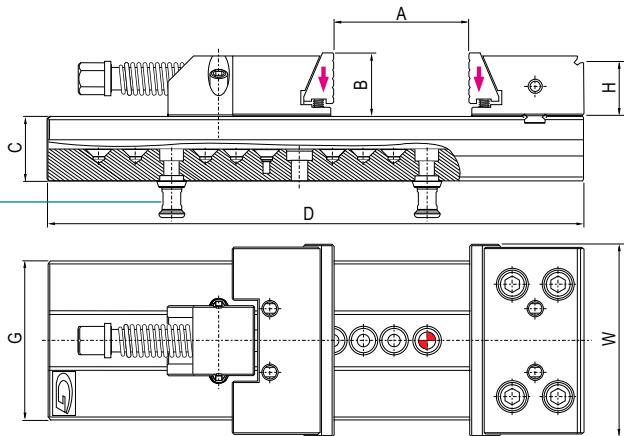
Pneumatico / Air control

Cod.	4.39.21000	4.39.22000	4.39.23000	4.39.24000
H				

 Servocomandi oleopneumatici (completi di 1 cilindro e supporto) per serraggi multipli **contemporanei o indipendenti**, da 2 a 6 morsi. Vedi da pag. 4.38 a 4.49

## Dotazione standard:

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


**Art. 10A**


## 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

<b>5</b> <b>40 kN</b>					<b>6</b> <b>40 kN</b>							
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 !**

4.31.35000 <b>Art. 313</b> 53		4.31.36000
1.21.25000 <b>Art. 212</b>		1.21.26000
2.21.75000 <b>Art. 217</b>		2.21.76000
1.24.2G500 <b>Art. 242G</b>		1.24.2G600
2.27.15000 <b>Art. 271</b>		2.27.16000
4.39.15000 <b>Art. 391</b>		4.39.16000
4.39.25000 <b>Art. 392</b>		4.39.26000

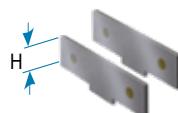
Pneumo-hydraulic servo units (complete of hydraulic cylinder + support) for multiple clamping **simultaneous** or **independent**, from 2 to 6 vises. See from page 4.38 to 4.49

<b>Art. 1Z</b>	384 405 440 370A 431	380 381 300 230 362	10A 230 362 306 382	Art. 120	Art. 127	Ganascia Mobile monoblocco guidata Solid guided movable jaw monoblocco guidata	Art. 10A 9.31	Art. 376 4.33	Art. 40Z 1.22	Art. 380 4.26	Art. 230 4.9	Art. 381 4.26
376												
375												
360 282 361 410												
Art. 258												



Tipo (grandezza) morsa / Vise type (size)	kN	1		2		3		4			
		16 kN	25 kN	30 kN	30 kN						
Apertura massima / Maximum spread	A	100	150	200	300	200	300	400	500		
<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			
	D	270	345	420	520	455	555	655	755		
	G	75	95	125				145			
	kg	6.2	11.9	24.2	27.8	35	39	46	51		
	Cod.	3.01.00120	3.02.10120	3.03.20120	3.03.30120	3.04.20120	3.04.30120	3.04.40120	3.04.50120		
Monoblocco - Solid											

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

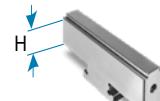
 Piastra magnetica parallela piane  
 Magnetic parallel plates


Cod. 4.31.3R100 4.31.3R200 4.31.3R300 4.31.3R400

 Vedi pagina 4.20 per altezze disponibili  
 See page 4.20 for available height

H 23 33 43 53

**Art. 213**

 Ganascia mobile intermedia  
 (da usare con Art. 313R)  
 Intermediate movable jaw (to be used with Art. 313R)


Cod. 1.21.31000 1.21.32000 1.21.33000 1.21.34000

**Art. 218**

 Ganascia mobile prismatica  
 Prismatic movable jaw


Cod. 2.21.81000 2.21.82000 2.21.83000 2.21.84000

**Art. 243G NEW!**

 Piastra ganascia ridotta con inserti GRIP  
 Narrow width jaw plate with GRIP inserts

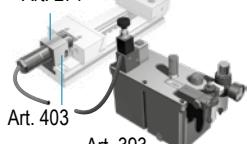

Cod. 1.24.3G100 1.24.3G200 1.24.3G300 1.24.3G400

**Art. 271**

 Supporto di serraggio con cilindro idraulico  
 Clamping support with hydraulic cylinder


Cod. 2.27.11000 2.27.12000 2.27.13000 2.27.14000

## Art. 271


**Art. 391**

CNC / CNC

Cod. 4.39.11000 4.39.12000 4.39.13000 4.39.14000

## Art. 392

Pneumatico / Air control

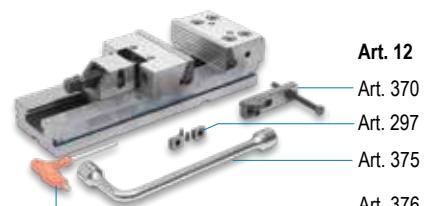
Cod. 4.39.21000 4.39.22000 4.39.23000 4.39.24000

Servocomandi oleopneumatici (completi di 1 cilindro e supporto) per serraggi multipli contemporanei o indipendenti, da 2 a 6 morsse. Vedi da pag. 4.38 a 4.49

## Dotazione standard:

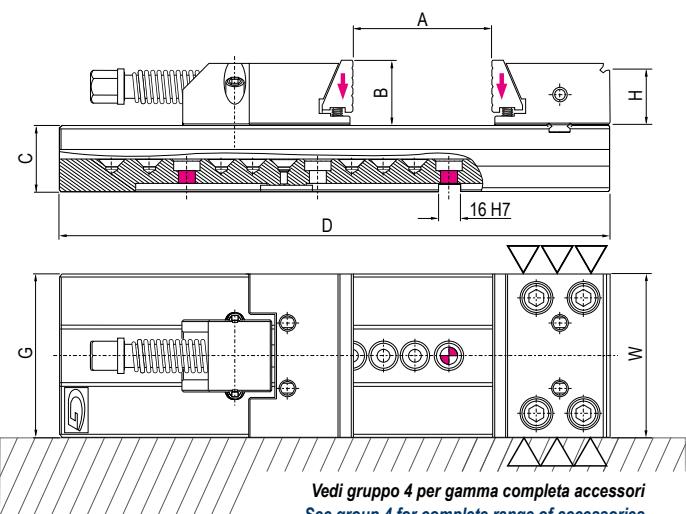
- 1 arresto laterale Art. 370
- 1 coppia di tasselli di posizionamento Art. 297  
 (Standard per cava da 16 mm; altre dimensioni a richiesta senza variazione di prezzo)
- 1 chiave a pipa Art. 375 ■ 1 chiave a "T" Art. 376

Extra per ogni foro calibrato (toleranza F7)



## Standard equipment:

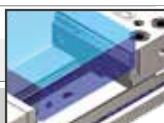
- 1 workstop Art. 370
  - 1 pair of positioning key-nuts Art. 297  
 (Standard for 16 mm slot. Other dimensions available on request without price change)
  - 1 box wrench Art. 375 ■ 1 T-wrench Art. 376
- Extra charge for each calibrated hole (F7 tolerance)


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

<b>5</b> <b>40 kN</b>					<b>6</b> <b>40 kN</b>							
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 !**

4.31.3R500



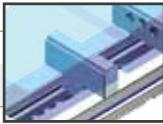
4.31.3R600

Art. 313R

53

68

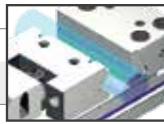
1.21.35000



1.21.36000

Art. 213

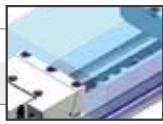
2.21.85000



2.21.86000

Art. 218

1.24.3G500



1.24.3G600

Art. 243G

2.27.15000



2.27.16000

Art. 271

4.39.15000

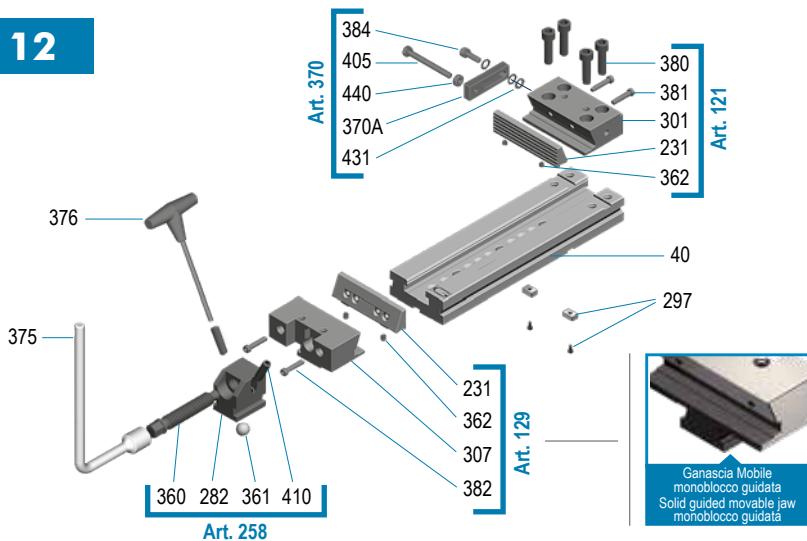
4.39.16000

Art. 391

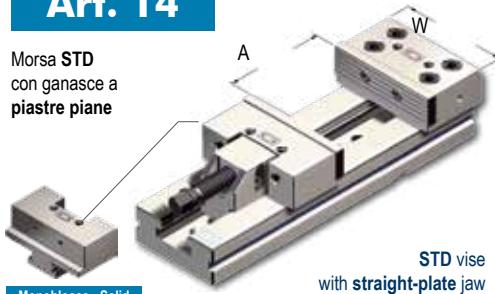
4.39.25000

4.39.26000

Art. 392

 Pneumo-hydraulic servo units (complete of hydraulic cylinder + support) for multiple clamping **simultaneous** or **independent**, from 2 to 6 vises. See from page 4.38 to 4.49
**Art. 12****Art.**    **Pag.****40**    1.22**231**    4.9**282**    4.34**297**    4.33**301**    4.27**307**    4.27**360**    4.34**361**    4.34**362**    4.26**370A**    4.33**375**    4.33**Art.**    **Pag.****376**    4.33**380**    4.26**381**    4.26**382**    4.26**384**    4.26**405**    4.33**410**    4.34**431**    4.26**440**    4.26**-**    -**-**    -

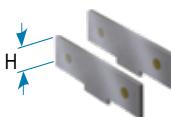
Tipo (grandezza) morsa / Vise type (size)	kN	1	2	3	4				
		16 kN	25 kN	30 kN	30 kN				
Apertura massima / Maximum spread	A	100	150	200	300	200	300	400	500
	W	100	125	150			175		
Art. 14	B	30	40	50			60		
Morsa STD con ganasce a piastre piane	C	35	40	50			58		
	D	270	345	420	520	455	555	655	755
STD vise with straight-plate jaw	G	75	95	125			145		
Monoblocco - Solid	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

Piastra magnetica parallela piane  
Magnetic parallel plates



Cod. 4.31.31000 4.31.32000 4.31.33000 4.31.34000

H 23 33 43 53

#### Art. 212

Ganascia mobile intermedia  
(da usare con Art. 313)  
Intermediate movable jaw (to be used with Art. 313)



Cod. 1.21.21000 1.21.22000 1.21.23000 1.21.24000

#### Art. 246

Piastra piana in acciaio lavorabile  
Machinable steel straight jaw plate



Cod. 1.65.16200 1.65.26200 1.65.36200 1.65.46200

#### Art. 246G NEW!

Piastra piana con inserti GRIP  
Straight jaw plate with GRIP inserts



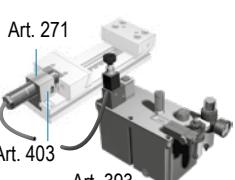
Cod. 1.24.6G100 1.24.6G200 1.24.6G300 1.24.6G400

#### Art. 271

Supporto di serraggio con cilindro idraulico  
Clamping support with hydraulic cylinder



Cod. 2.27.11000 2.27.12000 2.27.13000 2.27.14000



#### Art. 391

CNC / CNC

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

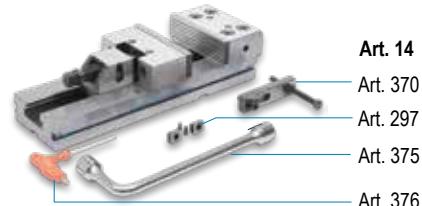


Servocomandi oleopneumatici (completi di 1 cilindro e supporto) per serraggi multipli contemporanei o indipendenti, da 2 a 6 morsi. Vedi da pag. 4.38 a 4.49

#### 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

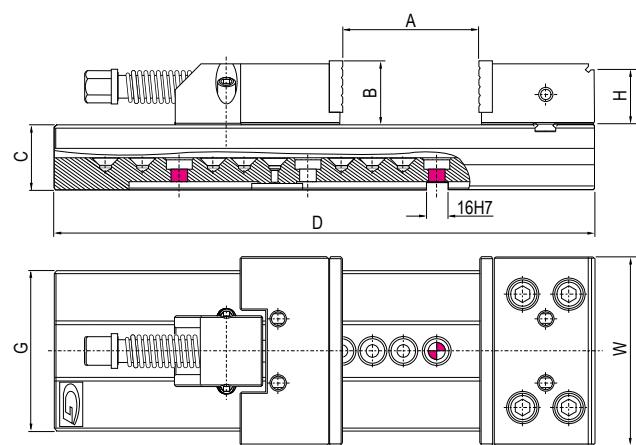
Extra per ogni foro calibrato (toleranza F7)



#### 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

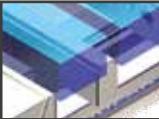
Extra charge for each calibrated hole (F7 tolerance)



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

5 40 kN					6 40 kN							
200	300	400	500	600	200	300	400	500	600	700	800	
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 !

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

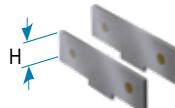
Pneumo-hydraulic servo units (complete of hydraulic cylinder + support) for multiple clamping **simultaneous** or **independent**, from 2 to 6 vises. See from page 4.38 to 4.49

Art.	Pag.	Art.	Pag.
<b>40</b>	1.22	<b>380</b>	4.26
<b>242</b>	4.11	<b>381</b>	4.26
<b>282</b>	4.34	<b>384</b>	4.26
<b>297</b>	4.33	<b>405</b>	4.33
<b>315</b>	4.28	<b>410</b>	4.34
<b>321</b>	4.28	<b>431</b>	4.26
<b>360</b>	4.34	<b>440</b>	4.26
<b>361</b>	4.34	<b>361</b>	-
<b>370A</b>	4.33	<b>370A</b>	-
<b>375</b>	4.33	<b>375</b>	-
<b>376</b>	4.33	<b>376</b>	-
<b>381</b>	4.33	<b>381</b>	-
<b>382</b>	4.33	<b>382</b>	-
<b>383</b>	4.33	<b>383</b>	-
<b>384</b>	4.33	<b>384</b>	-
<b>385</b>	4.33	<b>385</b>	-
<b>386</b>	4.33	<b>386</b>	-
<b>387</b>	4.33	<b>387</b>	-
<b>388</b>	4.33	<b>388</b>	-
<b>389</b>	4.33	<b>389</b>	-
<b>390</b>	4.33	<b>390</b>	-
<b>391</b>	4.33	<b>391</b>	-
<b>392</b>	4.33	<b>392</b>	-
<b>393</b>	4.33	<b>393</b>	-
<b>394</b>	4.33	<b>394</b>	-
<b>395</b>	4.33	<b>395</b>	-
<b>396</b>	4.33	<b>396</b>	-
<b>397</b>	4.33	<b>397</b>	-
<b>398</b>	4.33	<b>398</b>	-
<b>399</b>	4.33	<b>399</b>	-
<b>400</b>	4.33	<b>400</b>	-
<b>401</b>	4.33	<b>401</b>	-
<b>402</b>	4.33	<b>402</b>	-
<b>403</b>	4.33	<b>403</b>	-
<b>404</b>	4.33	<b>404</b>	-
<b>405</b>	4.33	<b>405</b>	-
<b>406</b>	4.33	<b>406</b>	-
<b>407</b>	4.33	<b>407</b>	-
<b>408</b>	4.33	<b>408</b>	-
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<b>410</b>	4.33	<b>410</b>	-
<b>411</b>	4.33	<b>411</b>	-
<b>412</b>	4.33	<b>412</b>	-
<b>413</b>	4.33	<b>413</b>	-
<b>414</b>	4.33	<b>414</b>	-
<b>415</b>	4.33	<b>415</b>	-
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<b>417</b>	4.33	<b>417</b>	-
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<b>419</b>	4.33	<b>419</b>	-
<b>420</b>	4.33	<b>420</b>	-
<b>421</b>	4.33	<b>421</b>	-
<b>422</b>	4.33	<b>422</b>	-
<b>423</b>	4.33	<b>423</b>	-
<b>424</b>	4.33	<b>424</b>	-
<b>425</b>	4.33	<b>425</b>	-
<b>426</b>	4.33	<b>426</b>	-
<b>427</b>	4.33	<b>427</b>	-
<b>428</b>	4.33	<b>428</b>	-
<b>429</b>	4.33	<b>429</b>	-
<b>430</b>	4.33	<b>430</b>	-
<b>431</b>	4.33	<b>431</b>	-
<b>432</b>	4.33	<b>432</b>	-
<b>433</b>	4.33	<b>433</b>	-
<b>434</b>	4.33	<b>434</b>	-
<b>435</b>	4.33	<b>435</b>	-
<b>436</b>	4.33	<b>436</b>	-
<b>437</b>	4.33	<b>437</b>	-
<b>438</b>	4.33	<b>438</b>	-
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<b>440</b>	4.33	<b>440</b>	-
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<b>442</b>	4.33	<b>442</b>	-
<b>443</b>	4.33	<b>443</b>	-
<b>444</b>	4.33	<b>444</b>	-
<b>445</b>	4.33	<b>445</b>	-
<b>446</b>	4.33	<b>446</b>	-
<b>447</b>	4.33	<b>447</b>	-
<b>448</b>	4.33	<b>448</b>	-
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<b>466</b>	4.33	<b>466</b>	-
<b>467</b>	4.33	<b>467</b>	-
<b>468</b>	4.33	<b>468</b>	-
<b>469</b>	4.33	<b>469</b>	-
<b>470</b>	4.33	<b>470</b>	-
<b>471</b>	4.33	<b>471</b>	-
<b>472</b>	4.33	<b>472</b>	-
<b>473</b>	4.33	<b>473</b>	-
<b>474</b>	4.33	<b>474</b>	-
<b>475</b>	4.33	<b>475</b>	-
<b>476</b>	4.33	<b>476</b>	-
<b>477</b>	4.33	<b>477</b>	-
<b>478</b>	4.33	<b>478</b>	-
<b>479</b>	4.33	<b>479</b>	-
<b>480</b>	4.33	<b>480</b>	-
<b>481</b>	4.33	<b>481</b>	-
<b>482</b>	4.33	<b>482</b>	-
<b>483</b>	4.33	<b>483</b>	-
<b>484</b>	4.33	<b>484</b>	-
<b>485</b>	4.33	<b>485</b>	-
<b>486</b>	4.33	<b>486</b>	-
<b>487</b>	4.33	<b>487</b>	-
<b>488</b>	4.33	<b>488</b>	-
<b>489</b>	4.33	<b>489</b>	-
<b>490</b>	4.33	<b>490</b>	-
<b>491</b>	4.33	<b>491</b>	-
<b>492</b>	4.33	<b>492</b>	-
<b>493</b>	4.33	<b>493</b>	-
<b>494</b>	4.33	<b>494</b>	-
<b>495</b>	4.33	<b>495</b>	-
<b>496</b>	4.33	<b>496</b>	-
<b>497</b>	4.33	<b>497</b>	-
<b>498</b>	4.33	<b>498</b>	-
<b>499</b>	4.33	<b>499</b>	-
<b>500</b>	4.33	<b>500</b>	-
<b>501</b>	4.33	<b>501</b>	-
<b>502</b>	4.33	<b>502</b>	-
<b>503</b>	4.33	<b>503</b>	-
<b>504</b>	4.33	<b>504</b>	-
<b>505</b>	4.33	<b>505</b>	-
<b>506</b>	4.33	<b>506</b>	-
<b>507</b>	4.33	<b>507</b>	-
<b>508</b>	4.33	<b>508</b>	-
<b>509</b>	4.33	<b>509</b>	-
<b>510</b>	4.33	<b>510</b>	-
<b>511</b>	4.33	<b>511</b>	-
<b>512</b>	4.33	<b>512</b>	-
<b>513</b>	4.33	<b>513</b>	-
<b>514</b>	4.33	<b>514</b>	-
<b>515</b>	4.33	<b>515</b>	-
<b>516</b>	4.33	<b>516</b>	-
<b>517</b>	4.33	<b>517</b>	-
<b>518</b>	4.33	<b>518</b>	-
<b>519</b>	4.33	<b>519</b>	-
<b>520</b>	4.33	<b>520</b>	-
<b>521</b>	4.33	<b>521</b>	-
<b>522</b>	4.33	<b>522</b>	-
<b>523</b>	4.33	<b>523</b>	-
<b>524</b>	4.33	<b>524</b>	-
<b>525</b>	4.33	<b>525</b>	-
<b>526</b>	4.33	<b>526</b>	-
<b>527</b>	4.33	<b>527</b>	-
<b>528</b>	4.33	<b>528</b>	-
<b>529</b>	4.33	<b>529</b>	-
<b>530</b>	4.33	<b>530</b>	-
<b>531</b>	4.33	<b>531</b>	-
<b>532</b>	4.33	<b>532</b>	-
<b>533</b>	4.33	<b>533</b>	-
<b>534</b>	4.33	<b>534</b>	-
<b>535</b>	4.33	<b>535</b>	-
<b>536</b>	4.33	<b>536</b>	-
<b>537</b>	4.33	<b>537</b>	-
<b>538</b>	4.33	<b>538</b>	-
<b>539</b>	4.33	<b>539</b>	-
<b>540</b>	4.33	<b>540</b>	-
<b>541</b>	4.33	<b>541</b>	-
<b>542</b>	4.33	<b>542</b>	-
<b>543</b>	4.33	<b>543</b>	-
<b>544</b>	4.33	<b>544</b>	-
<b>545</b>	4.33	<b>545</b>	-
<b>546</b>	4.33	<b>546</b>	-
<b>547</b>	4.33	<b>547</b>	-
<b>548</b>	4.33	<b>548</b>	-
<b>549</b>	4.33	<b>549</b>	-
<b>550</b>	4.33	<b>550</b>	-
<b>551</b>	4.33	<b>551</b>	-
<b>552</b>	4.33	<b>552</b>	-
<b>553</b>	4.33	<b>553</b>	-
<b>554</b>	4.33	<b>554</b>	-
<b>555</b>	4.33	<b>555</b>	-
<b>556</b>	4.33	<b>556</b>	-
<b>557</b>	4.33	<b>557</b>	-
<b>558</b>	4.33	<b>558</b>	-
<b>559</b>	4.33	<b>559</b>	-
<b>560</b>	4.33	<b>560</b>	-
<b>561</b>	4.33	<b>561</b>	-
<b>562</b>	4.33	<b>562</b>	-
<b>563</b>	4.33	<b>563</b>	-
<b>564</b>	4.33	<b>564</b>	-
<b>565</b>	4.33	<b>565</b>	-
<b>566</b>	4.33	<b>566</b>	-
<b>567</b>	4.33	<b>567</b>	-
<b>568</b>	4.33	<b>568</b>	-
<b>569</b>	4.33	<b>569</b>	-
<b>570</b>	4		

Tipo (grandezza) morsa / Vise type (size)	kN	1	2	3	4			
		16 kN	25 kN	30 kN	30 kN	30 kN	400	500
Apertura massima / Maximum spread	A	100	150	200	300	200	300	400
	W	75	95	125			145	
Morsa STD con piastra ganasce GRIP a forte serraggio, (ridotte rettificate)	B	30	40	50			60	
	C	35	40	50			58	
Art. 15	D	270	345	420	520	455	555	655
STD vise with GRIP jaw-plates for strongest clamping, (narrow width ground)	G	75	95	125			145	
Monoblocco - Solid	kg	6.2	11.9	24.2	27.8	35	39	46
	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

Piastra magnetica parallela piane  
Magnetic parallel plates

Cod. 4.31.3R100 4.31.3R200 4.31.3R300 4.31.3R400

H 23 33 43 53

Vedi pagina 4.20 per altezze disponibili  
See page 4.20 for available height

## Art. 247

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

Cod. 1.65.17200 1.65.27200 1.65.37200 1.65.47200

## Art. 218

Ganasca mobile prismatica  
Prismatic movable jaw

Cod. 2.21.81000 2.21.82000 2.21.83000 2.21.84000

## Art. 247G NEW!

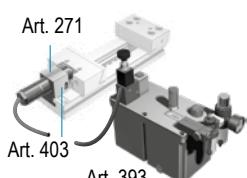
Piastra piana ridotta con inserti GRIP  
Narrow width straight jaw plate with GRIP inserts

Cod. 1.24.7G100 1.24.7G200 1.24.7G300 1.24.7G400

## Art. 271

Supporto di serraggio con cilindro idraulico  
Clamping support with hydraulic cylinder

Cod. 2.27.11000 2.27.12000 2.27.13000 2.27.14000



## Art. 391

CNC / CNC

## Art. 392

Pneumatico / Air control

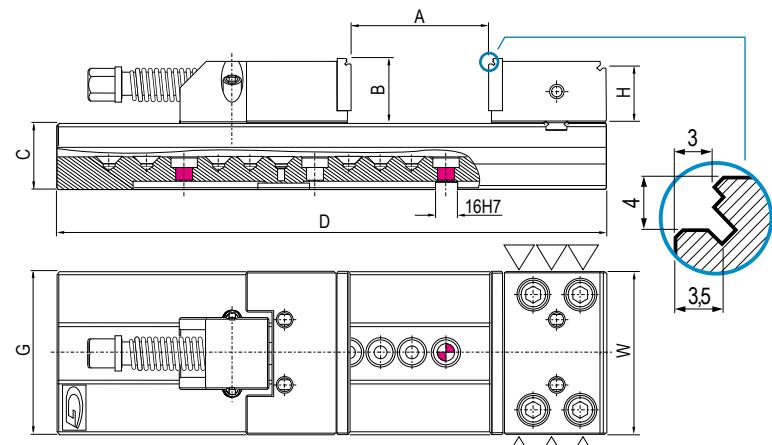
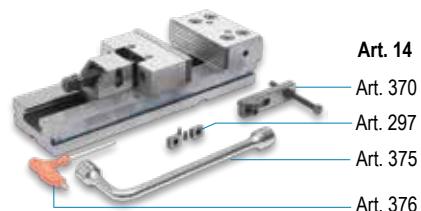
Cod. 4.39.11000 4.39.12000 4.39.13000 4.39.14000

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 morsse. Vedi da pag. 4.38 a 4.49

## 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 (toleranza F7)



## 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)

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

5 40 kN					6 40 kN								
200	300	400	500	600	200	300	400	500	600	700	800		
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 !

4.31.3R500 <b>Art. 313R</b>		4.31.3R600
53		68
1.65.57200 <b>Art. 247</b>		1.65.67200
2.21.85000 <b>Art. 218</b>		2.21.86000
1.24.7G500 <b>Art. 247G</b>		1.24.7G600
2.27.15000 <b>Art. 271</b>		2.27.16000
4.39.15000 <b>Art. 391</b>		4.39.16000
4.39.25000 <b>Art. 392</b>		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 4.38 to 4.49

Art. 15		Art. 370	Art. 141T	Art.	Pag.	Art.	Pag.
376		384 405 440 370A 431	380 316 247T 381	40	1.22	380	4.26
375		381 247T 322	297	247T	4.11	381	4.26
360 282 361 410	Art. 258			282	4.34	384	4.26
				297	4.33	405	4.33
				316	4.28	410	4.34
				322	4.28	431	4.26
				360	4.34	440	4.26
				361	4.34	-	-
				370A	4.33	-	-
				375	4.33	-	-
				376	4.33	-	-

# 1 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 morsi **GERARDI** della serie **Standardflex** sono un'evoluzione della morsa Standard STD. La loro caratteristica principale è la sostituzione rapida delle piastre ganasca 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 ganasca, 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 ganasca intercambiabile manualmente

### 2 GREAT SAWINGS IN VISE RESETTING TIMES

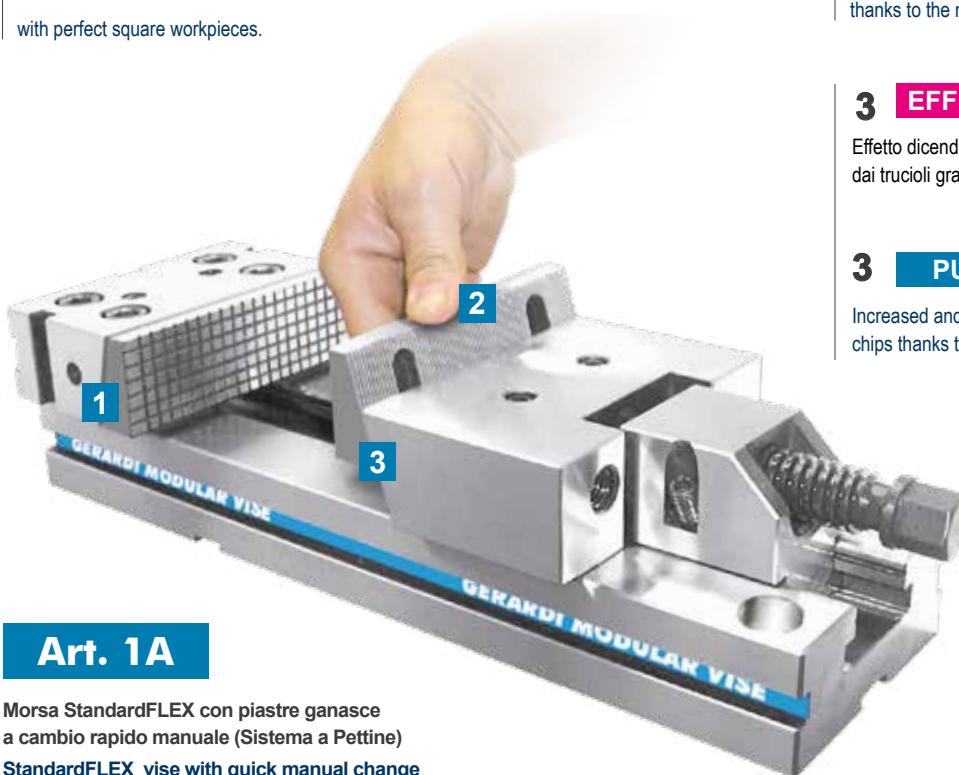
thanks to the manual interchangeable quick jaw plate

### 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 ganasca a cambio rapido manuale (Sistema a Pettine)  
**StandardFLEX** vise with quick manual change jaw plates (Comb system)

### CARATTERISTICHE E VANTAGGI

- USURA INESISTENTE
- RAPIDITÀ DEI SERRAGGI
- MODULARITÀ & VERSATILITÀ
- PRECISIONI  $\pm 0,02$  mm
- RIGIDITÀ & SICUREZZA
- DESIGN COMPATTO E MANEGGEVOLEZZA

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

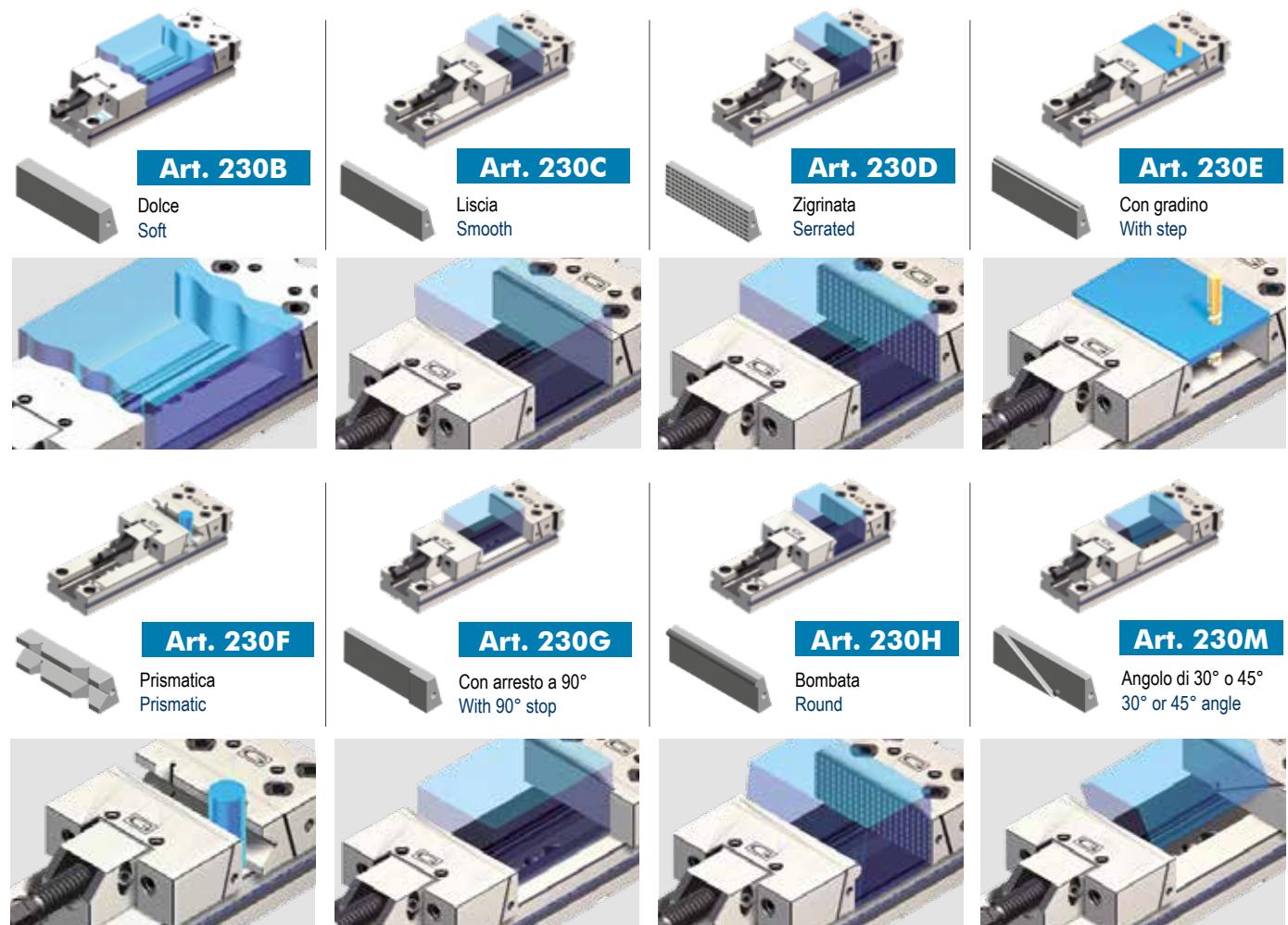
### TECHNICAL FEATURES and ADVANTAGES

- 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

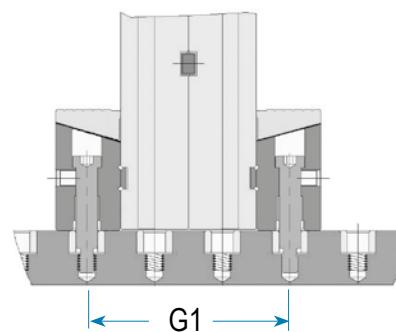
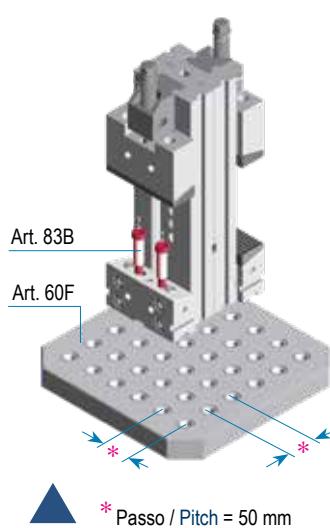
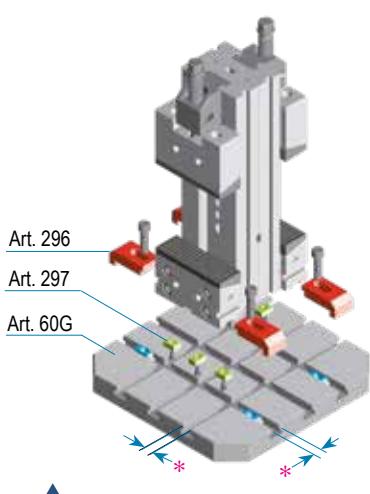


### PORTAPIASTRE / THE RACK

Completo di piastre ganasce a cambio rapido a gradino Art.230E

Complete of quick change step jaw plates Art.230E

Vedi Pag. 4.19 - See Page.4.19



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

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

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

Ancoraggio e posizionamento a reticolato  
Grid clamping and positioning

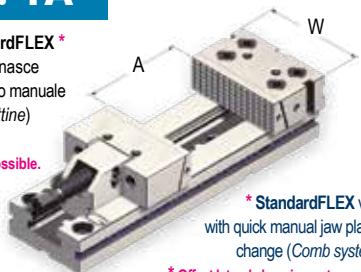
Example of version mounting of 2 StandardFLEX vises back to back on grid base Ø 16 mm. 50 mm Pitch



Tipo (grandezza) morsa / Vise type (size)	kN	1	2	3	4			
		16 kN	25 kN	30 kN	30 kN	30 kN	400	500
Apertura massima / Maximum spread	A	100	150	200	300	200	300	400
	W	96	121	146			171	
	B	28	38	48			58	
	C	35	40	50			58	
	D	270	345	420	520	455	555	655
	G	75	95	125			145	
	kg	6.8	12.9	25.5	29	37	42	47
	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

**Art. 1A**

Morsa StandardFLEX\*  
con piastre ganasce  
a cambio rapido manuale  
(Sistema a pettine)  
\* Offset lateral  
clamping not possible.

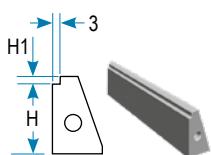


\* StandardFLEX vise  
with quick manual jaw plates  
change (Comb system)

\* Offset lateral clamping not possible

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

Piastra ganascia intercambiabile  
Interchangeable jaw plate  
Vedi pagina 4.20 per altezze disponibili  
See page 4.20 for available height



Cod. 4.23.0E101	4.23.0E201	4.23.0E301	4.23.0E401
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H 23	33	43	53
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H1 5	5	5	5
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**Art. 212**

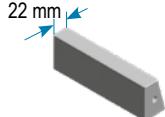
Ganascia mobile intermedia  
(da usare con Art. 230E)  
Intermediate movable jaw (to be used with Art. 230E)



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

**Art. 230B**

Piastra ganascia intercambiabile dolce  
Soft interchangeable jaw plate



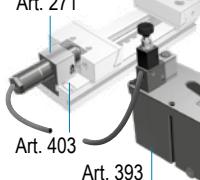
Cod. 4.23.0B101	4.23.0B201	4.23.0B301	4.23.0B401
-----------------	------------	------------	------------

**Art. 230F**

Piastra ganascia intercambiabile prismatica  
Prismatic interchangeable jaw plate



Cod. 4.23.0F101	4.23.0F201	4.23.0F301	4.23.0F401
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**Art. 271****Art. 391**

CNC / CNC

**Art. 392**

Pneumatico / Air control

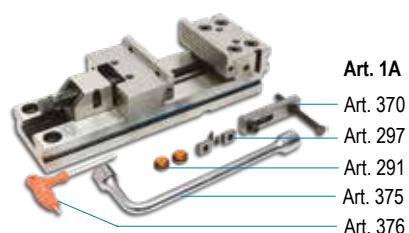
Cod. 4.39.11000	4.39.12000	4.39.13000	4.39.14000
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Cod. 4.39.21000	4.39.22000	4.39.23000	4.39.24000
-----------------	------------	------------	------------

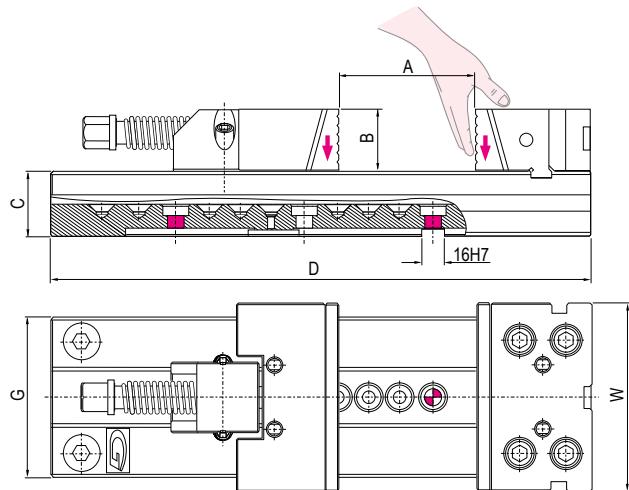
Servocomandi oleopneumatici (completi di 1 cilindro e supporto) per serraggi multipli contemporanei o indipendenti, da 2 a 6 morsse. Vedi da pag. 4.38 a 4.49

**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 workstop 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

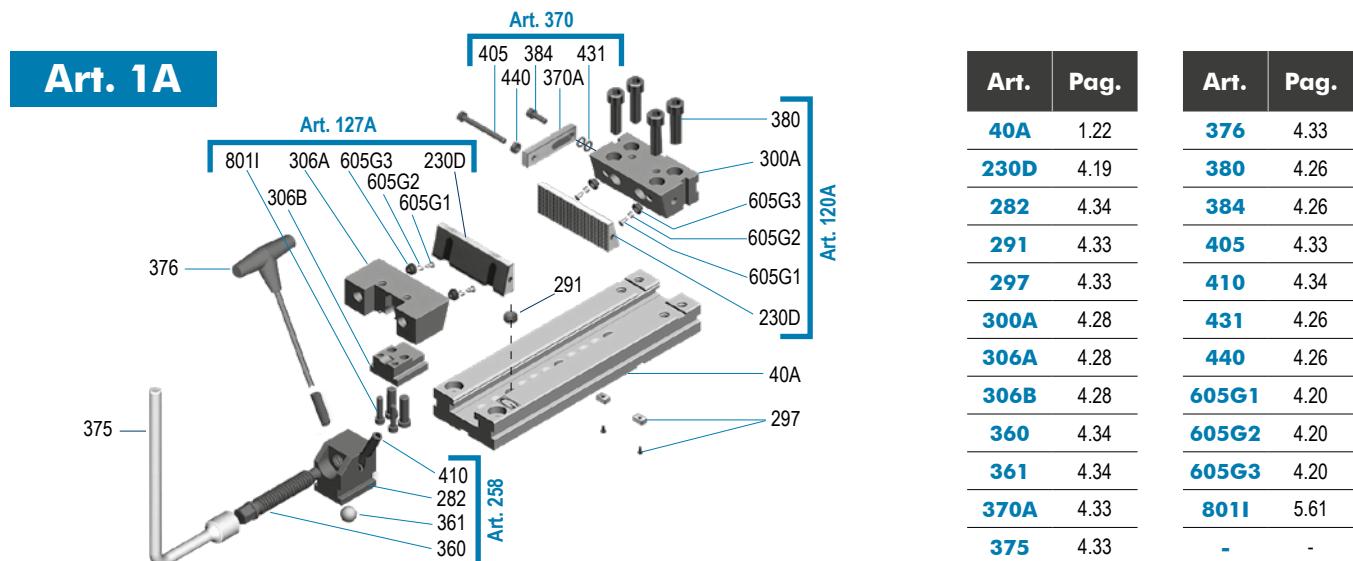


5 40 kN					6 40 kN							
200	300	400	500	600	200	300	400	500	600	700	800	
196					296							
63					78							
70					78							
495	595	695	795	895	535	635	735	835	935	1035	1135	
170					195							
64	69	74	79	84	95	105	115	125	135	145	155	
1.1A.52000	1.1A.53000	1.1A.54000	1.1A.55000	1.1A.56000	1.1A.62000	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 !

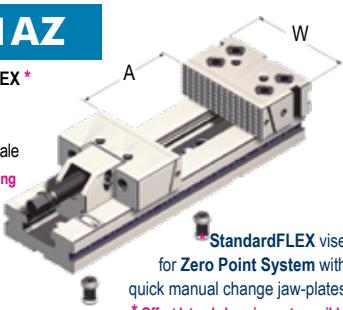
4.23.0E501		4.23.0E601
<b>Art. 230E</b>		
H	53	68
H1	10	10
1.21.25000		1.21.26000
<b>Art. 212</b>		
4.23.0B501		4.23.0B601
<b>Art. 230B</b>		
4.23.0F501		4.23.0F601
<b>Art. 230F</b>		
4.39.15000		4.39.16000
<b>Art. 391</b>		
4.39.25000		4.39.26000
<b>Art. 392</b>		

Pneumo-hydraulic servo units (complete of hydraulic cylinder + support) for multiple clamping **simultaneous** or **independent**, from 2 to 6 vises. See from page 4.38 to 4.49





Tipo (grandezza) morsa / Vise type (size)	kN	1		2		3		4			
		16 kN	25 kN	25 kN	30 kN	30 kN					
Apertura massima / Maximum spread	A	100	150	200	300	200	300	400	500		
	W	96	121		146			171			
<b>Art. 1AZ</b>	B	28	38		48			58			
Morsa StandardFLEX* per Zero Point con piastre ganasce a cambio rapido manuale * Offset lateral clamping not possible.	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		

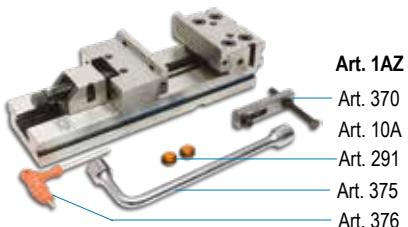

**AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !**

<b>Art. 230E</b>		Cod. 4.23.0E101	4.23.0E201	4.23.0E301	4.23.0E401
Piastra ganascia intercambiabile Interchangeable jaw plate		H	23	33	43
Vedi pagina 4.20 per altezze disponibili See page 4.20 for available height		H1	5	5	5
					53
<b>Art. 212</b>		Cod. 1.21.21000	1.21.22000	1.21.23000	1.21.24000
Ganascia mobile intermedia (da usare con Art. 230E)					
Intermediate movable jaw (to be used with Art. 230E)					
<b>Art. 230B</b>		Cod. 4.23.0B101	4.23.0B201	4.23.0B301	4.23.0B401
Piastra ganascia intercambiabile dolce Soft interchangeable jaw plate					
<b>Art. 230F</b>		Cod. 4.23.0F101	4.23.0F201	4.23.0F301	4.23.0F401
Piastra ganascia intercambiabile prismatica Prismatic interchangeable jaw plate					
<b>Art. 271</b>		Cod. 4.39.11000	4.39.12000	4.39.13000	4.39.14000
<b>Art. 391</b>	CNC / CNC				
<b>Art. 392</b>	Pneumatico / Air control	Cod. 4.39.21000	4.39.22000	4.39.23000	4.39.24000

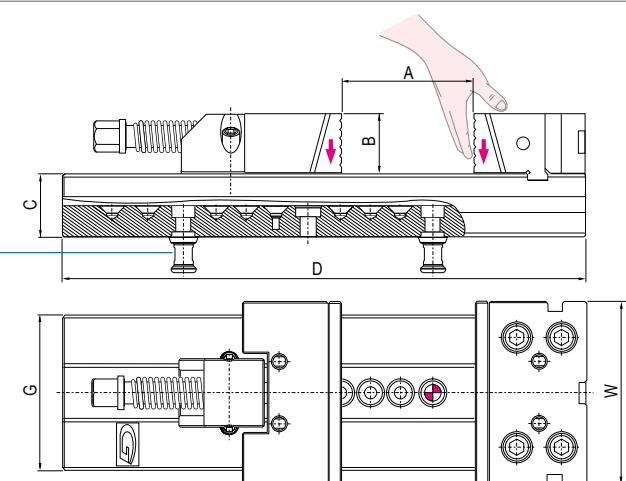
Servocomandi oleopneumatici (completi di 1 cilindro e supporto) per serraggi multipli contemporanei o indipendenti, da 2 a 6 morsi. Vedi da pag. 4.38 a 4.49

**Dotazione standard:**

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


**Standard equipment:**

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


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



5 40 kN					6 40 kN							
200	300	400	500	600	200	300	400	500	600	700	800	
			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	A blue modular vise component with a yellow handle.	4.23.0E601
<b>Art. 230E</b>		
H	53	68
H1	10	10
1.21.25000	A blue modular vise component with a yellow handle.	1.21.26000
<b>Art. 212</b>		
4.23.0B501	A blue modular vise component with a yellow handle.	4.23.0B601
<b>Art. 230B</b>		
4.23.0F501	A blue modular vise component with a yellow handle.	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 4.38 to 4.49

| Art. 1AZ | Art. 370 | Art. 127A | Art. 120A | Art. 10A | Art. 376 | Art. 40Z | Art. 230D | Art. 282 | Art. 291 | Art. 300A | Art. 306A | Art. 306B | Art. 360 | Art. 361 | Art. 370A | Art. 375 | Art. 384 | Art. 410 | Art. 431 | Art. 440 | Art. 605G1 | Art. 605G2 | Art. 605G3 | Art. 8011 | Art. 306A | Art. 605G3 | Art. 230D | Art. 306B | Art. 360 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 282 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 431 | Art. 440 | Art. 605G1 | Art. 605G2 | Art. 605G3 | Art. 8011 | Art. 306A | Art. 605G3 | Art. 230D | Art. 306B | Art. 360 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 282 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 431 | Art. 440 | Art. 605G1 | Art. 605G2 | Art. 605G3 | Art. 8011 | Art. 306A | Art. 605G3 | Art. 230D | Art. 306B | Art. 360 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 282 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 431 | Art. 440 | Art. 605G1 | Art. 605G2 | Art. 605G3 | Art. 8011 | Art. 306A | Art. 605G3 | Art. 230D | Art. 306B | Art. 360 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 282 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 431 | Art. 440 | Art. 605G1 | Art. 605G2 | Art. 605G3 | Art. 8011 | Art. 306A | Art. 605G3 | Art. 230D | Art. 306B | Art. 360 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 282 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 431 | Art. 440 | Art. 605G1 | Art. 605G2 | Art. 605G3 | Art. 8011 | Art. 306A | Art. 605G3 | Art. 230D | Art. 306B | Art. 360 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 282 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 431 | Art. 440 | Art. 605G1 | Art. 605G2 | Art. 605G3 | Art. 8011 | Art. 306A | Art. 605G3 | Art. 230D | Art. 306B | Art. 360 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 282 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 431 | Art. 440 | Art. 605G1 | Art. 605G2 | Art. 605G3 | Art. 8011 | Art. 306A | Art. 605G3 | Art. 230D | Art. 306B | Art. 360 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 282 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 431 | Art. 440 | Art. 605G1 | Art. 605G2 | Art. 605G3 | Art. 8011 | Art. 306A | Art. 605G3 | Art. 230D | Art. 306B | Art. 360 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 282 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 431 | Art. 440 | Art. 605G1 | Art. 605G2 | Art. 605G3 | Art. 8011 | Art. 306A | Art. 605G3 | Art. 230D | Art. 306B | Art. 360 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 282 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 431 | Art. 440 | Art. 605G1 | Art. 605G2 | Art. 605G3 | Art. 8011 | Art. 306A | Art. 605G3 | Art. 230D | Art. 306B | Art. 360 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 282 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 431 | Art. 440 | Art. 605G1 | Art. 605G2 | Art. 605G3 | Art. 8011 | Art. 306A | Art. 605G3 | Art. 230D | Art. 306B | Art. 360 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 282 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 431 | Art. 440 | Art. 605G1 | Art. 605G2 | Art. 605G3 | Art. 8011 | Art. 306A | Art. 605G3 | Art. 230D | Art. 306B | Art. 360 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 282 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 431 | Art. 440 | Art. 605G1 | Art. 605G2 | Art. 605G3 | Art. 8011 | Art. 306A | Art. 605G3 | Art. 230D | Art. 306B | Art. 360 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 282 | Art. 361 | Art. 370A | Art. 375 | Art. 410 | Art. 431 | Art. 440 | Art. 605G1 | Art. 605G2 | Art. 605G3 |
<th style="
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

## Tipo (grandezza) morsa / Vise type (size)

1      2      3      4

## Art. 40

Slittone base  
serie STD senza  
alcuna dotazioneVise base  
STD series  
supplied without any accessory

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

## Art. 40A

Slittone base serie  
StandardFLEX  
senza alcuna dotazioneVise base  
StandardFLEX series  
supplied without any accessory

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

## Art. 40Z

Slittone base  
serie Zero Point  
senza alcuna dotazioneVise base  
Zero Point series  
supplied without any accessory

ZZ	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

## PIASTRE D'INTERFAZIA Art.62 per morse STD

CONNECTING PLATES Art.62 for STD vises

## Art. 62

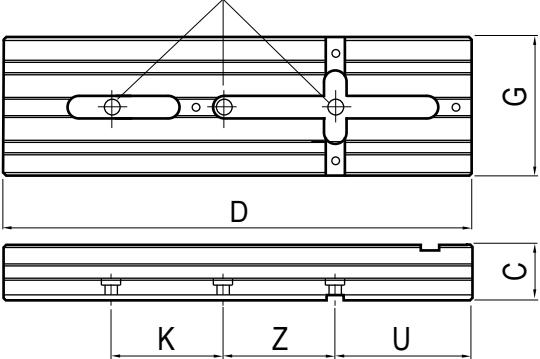
STD

Piastra di interfaccia  
Zero Point per  
morse STDZero Point connecting  
plate for STD vises

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

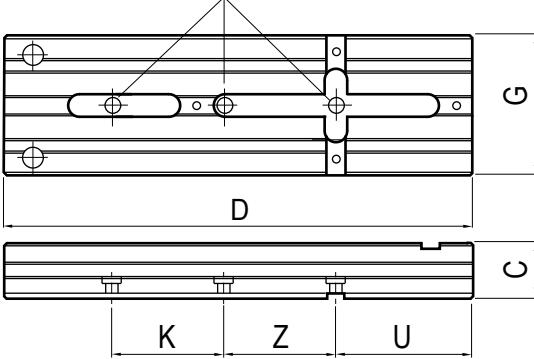
## Art. 40

N Fori / Holes

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

## Art. 40A

N Fori / Holes

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	

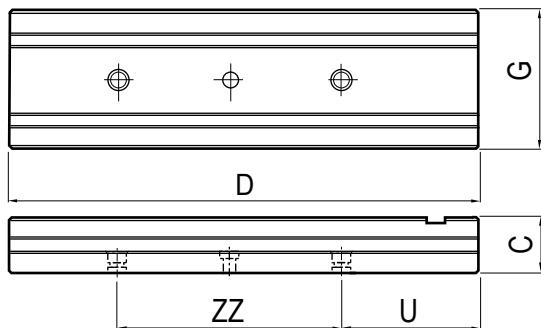
32,6	39,2	45,8	52,5	59	47	56	65	74	83	91	100	
1.40.A5200	1.40.A5300	1.40.A5400	1.40.A5500	1.40.A5600	1.40.A6200	1.40.A6300	1.40.A6400	1.40.A6500	1.40.A6600	1.40.A6700	1.40.A6800	

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

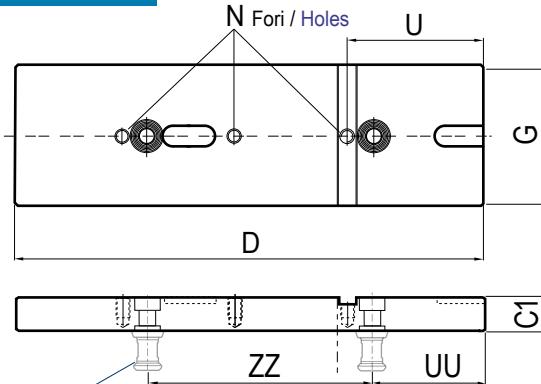
		38						38				
		120						127				
200	200/250	250/300	250/300	300	250/300	250/300	300	300	300	300	300	
25	30	35	40	45	31	36,7	42,5	48,3	54	59,8	65,6	

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



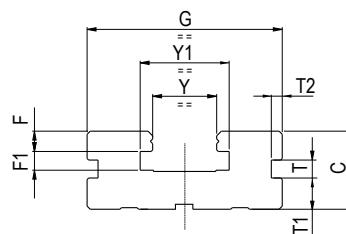
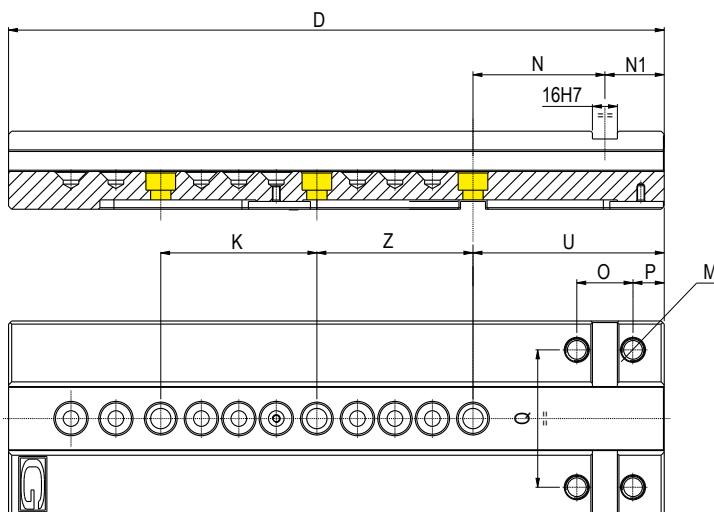
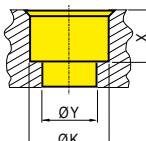
Tiranti Art. 10A non in dotazione  
Pull studs Art. 10A not included in the standard equipment

**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
- 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**

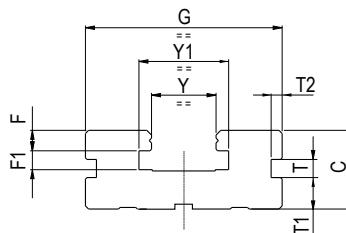
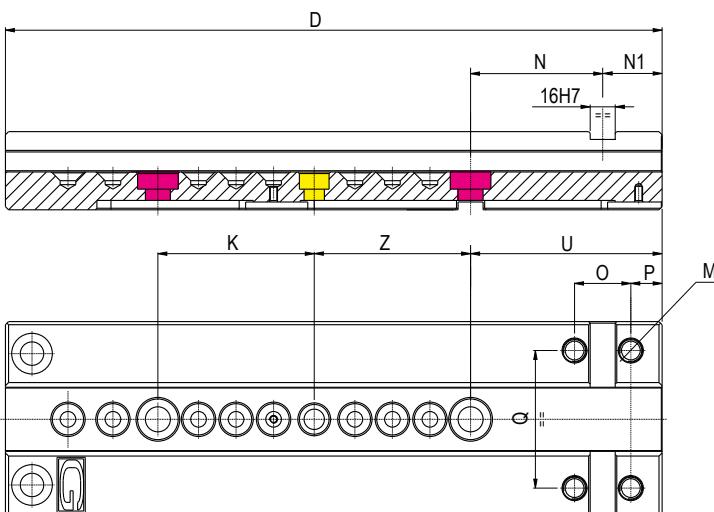
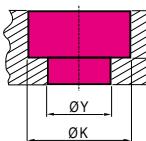
Slittone base serie STD / Vise base STD series


**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**


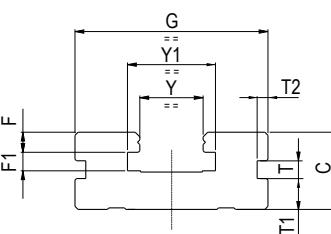
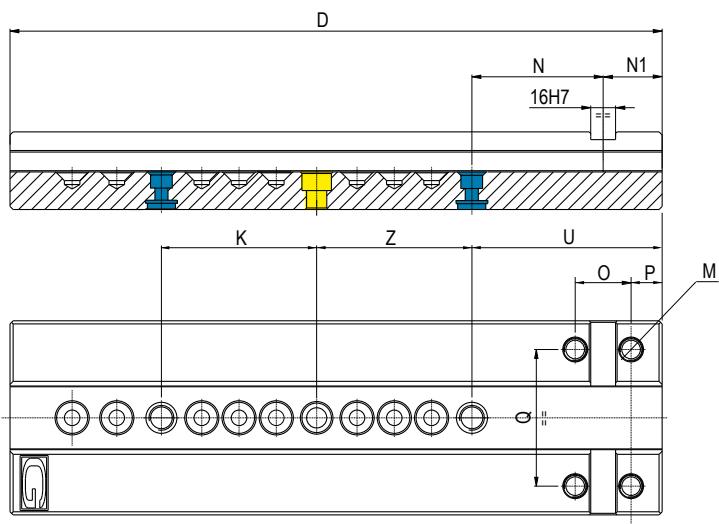
Type	1	2	3	4	5	6
X	8			11		
Ø Y	16F7				16F7	
Ø K	21			25		

**5****6**

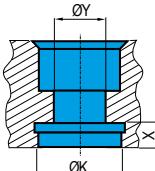
		70					78				
495	595	695	795	895	535	635	735	835	935	1035	1135
		20					20				
		18					18				
		170					195				
		61					71				
		80					91				
		M20					M20				
		100					107				
		45					45				
		44					44				
		23					23				
		120					133				
		17,5					17,5				
		26					26				
		10					10				
		145					152				
		100					100				
		100					100				

**Art. 40Z**

Slittone base serie ZERO POINT / Vise base ZERO POINT series

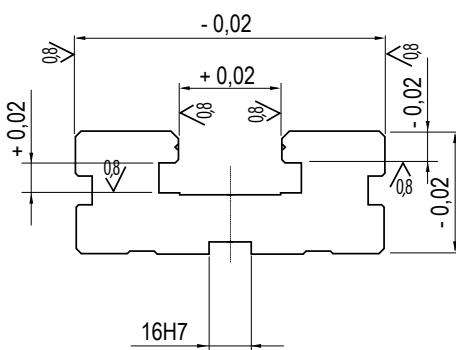
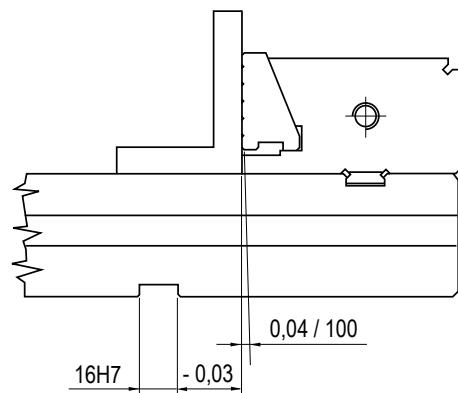


Dettaglio foro per Zero Point / Zero Point hole details



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

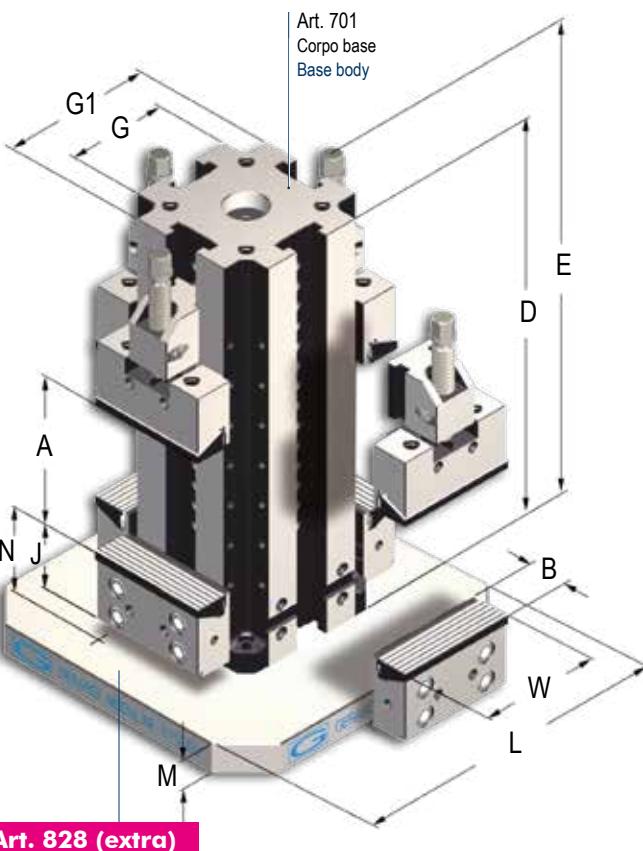
Tolleranze generiche per morse XL / XL vise generic tolerances



**Tipo (grandezza) morsa / Vise type (size)**

	1	16 kN	
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	

**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

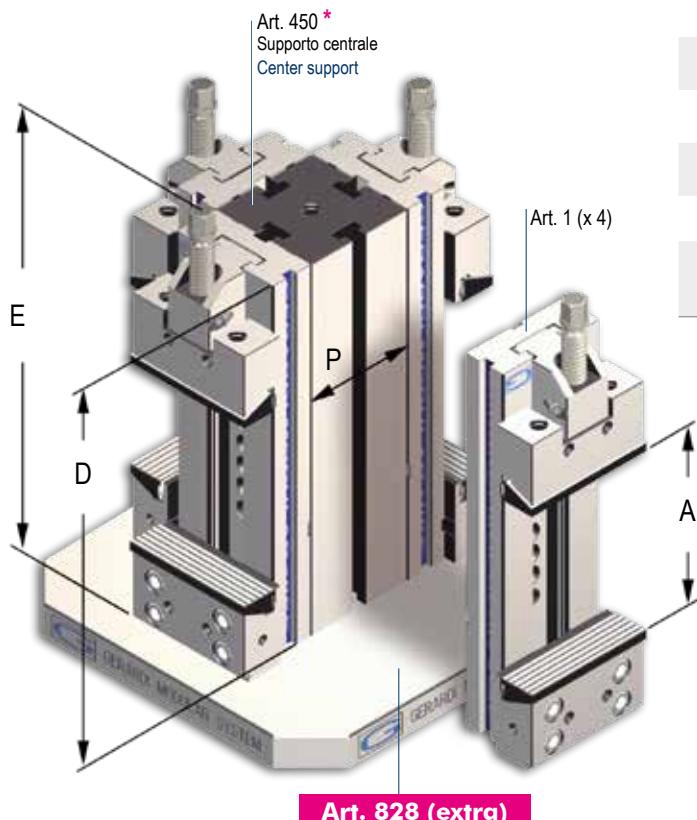
**Standard equipment:**

- 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

**Tipo (grandezza) morsa / Vise type (size)**

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

**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:**

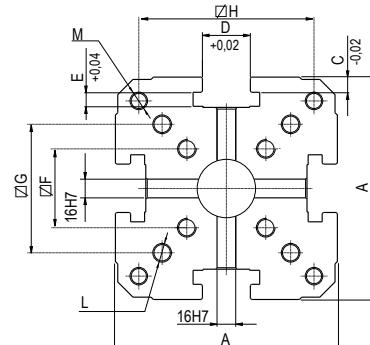
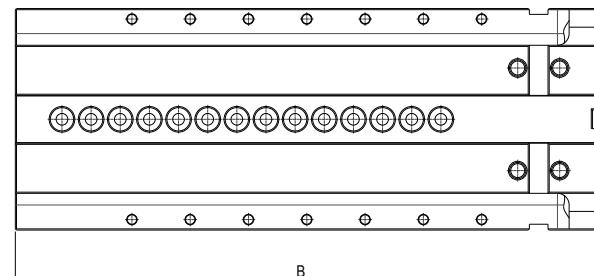
- 4 workstops Art. 370
- 2 pairs of positioning key-nuts Art. 297  
(Standard for 16 mm slot;  
other widths available on request without price change)
- 1 box wrench Art. 375
- 1 "T"- wrench Art. 376

<b>2</b> <b>25 kN</b>		<b>3</b> <b>30 kN</b>			<b>4</b> <b>30 kN</b>				<b>5</b> <b>40 kN</b>		<b>6</b> <b>40 kN</b>	
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

<b>2</b> <b>25 kN</b>		<b>3</b> <b>30 kN</b>			<b>4</b> <b>30 kN</b>				<b>5</b> <b>40 kN</b>			<b>6</b> <b>40 kN</b>	
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	

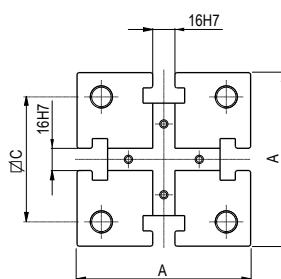
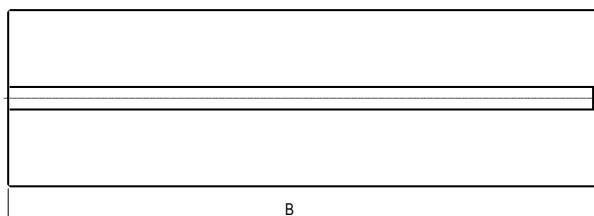
\* Altre dimensioni a richiesta / Other dimensions on request

1  
**Tipo (grandezza) morsa / Vise type (size)****Art. 701**

Senza alcuna dotazione  
Without accessory equipment

**Art. 701**

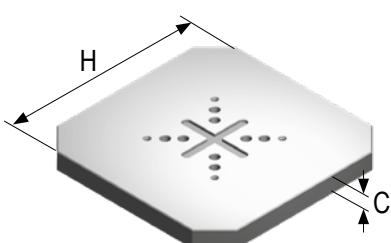
Corpo slittone standard  
Body for standard vise tower

**Tipo (grandezza) morsa / Vise type (size)****Art. 450**

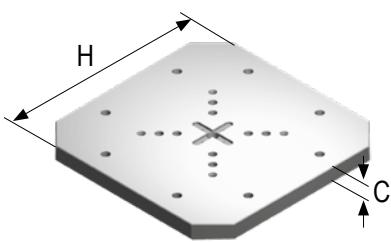
Senza alcuna dotazione  
Without accessory equipment

**Art. 450**

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

**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)

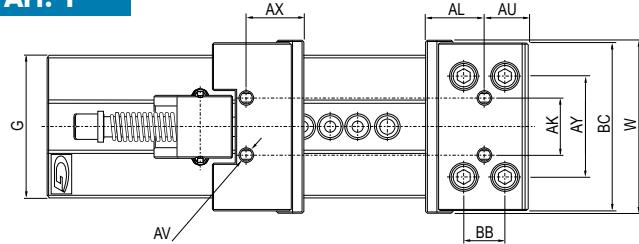
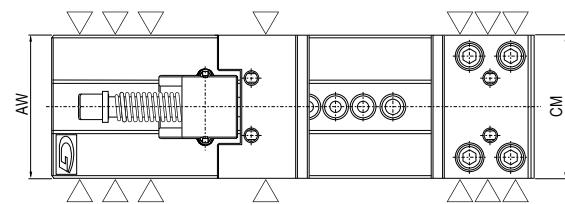
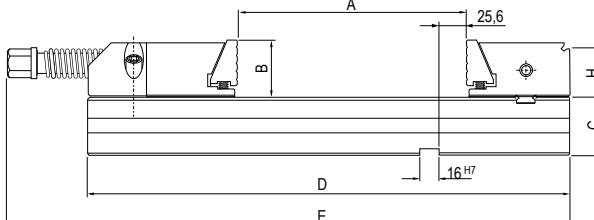
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>				<b>5</b>	<b>6</b>				
A	120	160	190	200				*	*				
B	250	300	350	400	400	500	600	400	500	600	700	*	*
C	10	12	13	15	20	20							
D	21	28	41	51	61	71							
E	10	10	12	18	18	18	18	18	18	18			
F	40	54	70	80	80								
G	70	84	110	134	134								
H	-	120	150	200	200								
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

	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>				<b>5</b>	<b>6</b>					
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

	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>	<b>7</b>
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

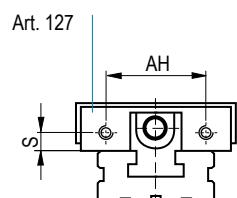
**Art. 1**

**Art. 12**

**Art. 1 + 12**


Tipo (grandezza) morsa / Vise type (size)

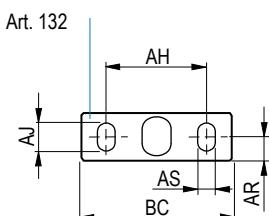
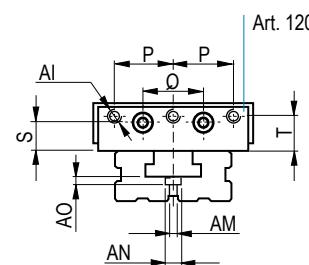
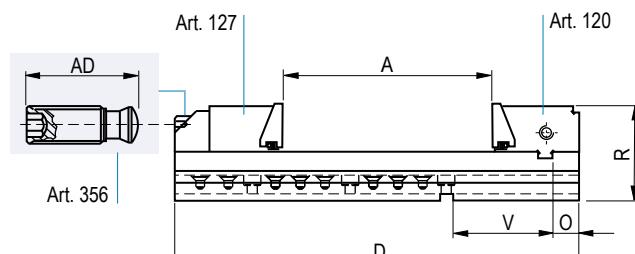
Tabella dimensionale / Table dimension

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

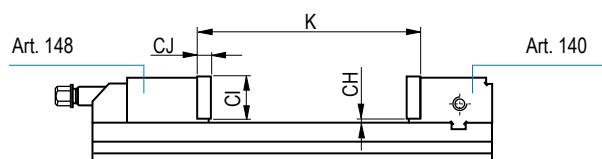
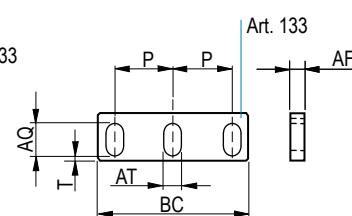
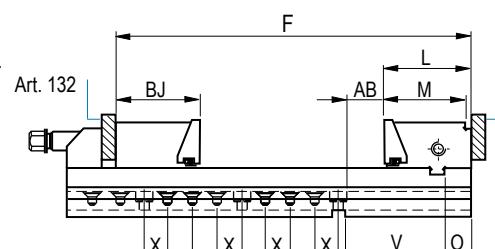
mm	1	2	3	4	5	6	Tolleranza Tolerance	mm	1	2	3	4	5	6	Tolleranza Tolerance
L	54	77.9	89.4	96.9	113.4	120.4	- 0.04	AO	4.5	5.5	12.5	12.5	17	17	
M	72.9	72.9	84.4	91.9	108.4	115.4	- 0.04	AP	15	15	20	20	26	26	
N	10	10	12	18	18	18	+ 0.02	AQ	16	18	26	26	29	30	
O	27	27	30	32	37	37	± 0.02	AR	18	24	26	34	31	38	
P	38	50	62	72.5	83	120		AS	11	17	17	17	21	21	
R	65	80	100	118	135	158		AT	11	11	13	13	13	17	
S	18	23	29	37.5	37.5	47.5		AU	35.5	35.5	38.5	41.5	47	47	
T	16	20.5	27.5	36.5	34	46		AV	M8	M10	M12	M12	M16	M16	
U	111	111	122.5	129	145	152		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		-	-	-	-	-	-	-	



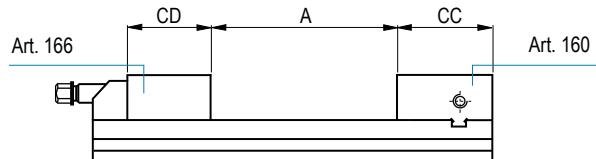
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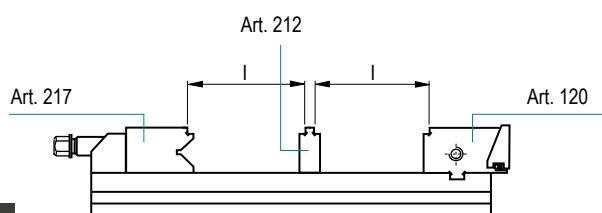
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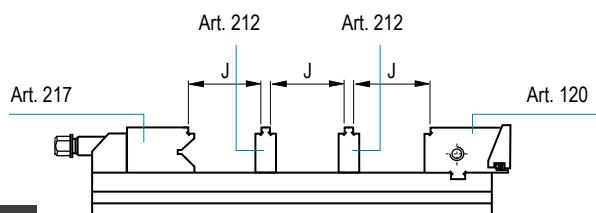
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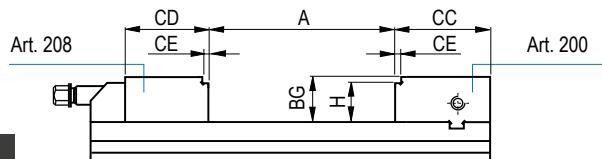
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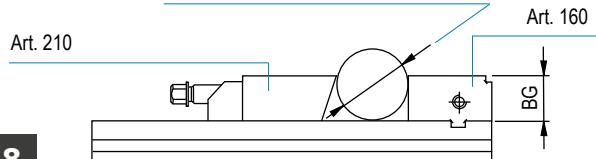
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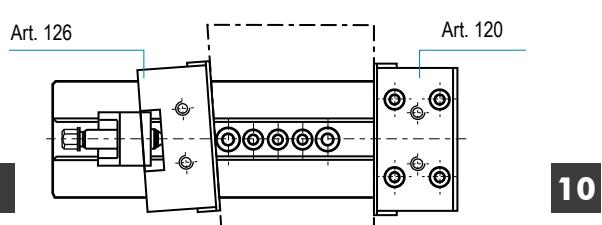
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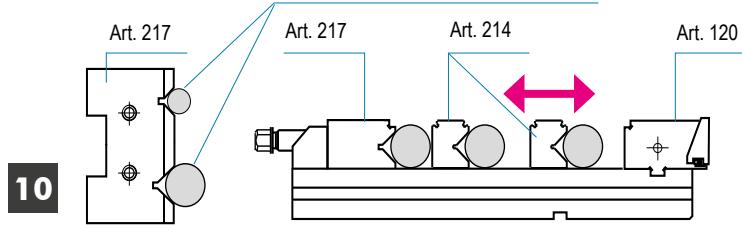
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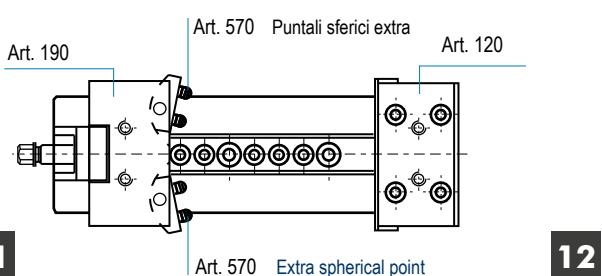
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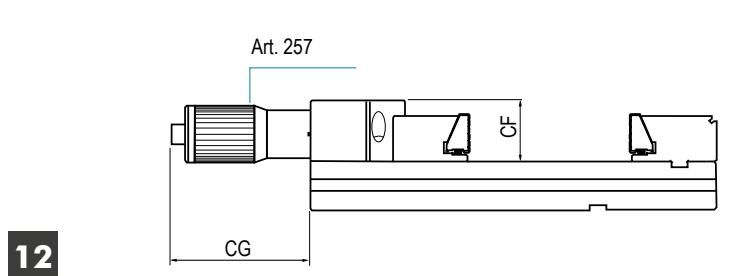
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10

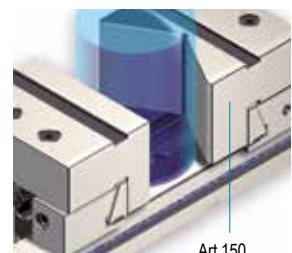
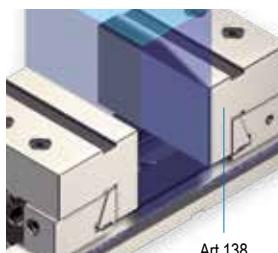
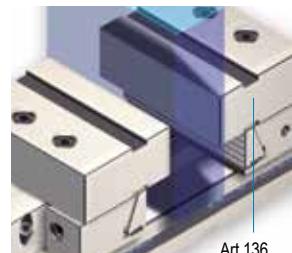
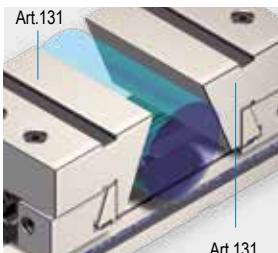
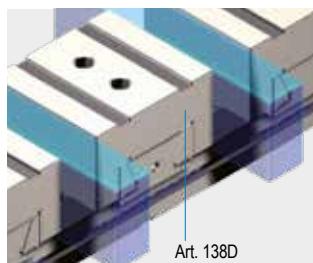
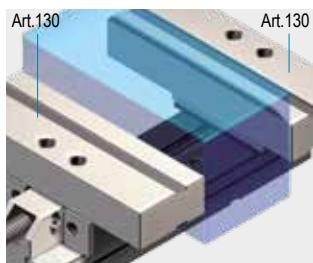


11



12

<b>Tipo (grandezza) morsa / Vise type (size)</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
Ganascia piana sovrapponibile fissa o mobile Straight stack-type jaw fixed or movable	Cod. Art. 130 2.13.01000	2.13.02000	2.13.03000	2.13.04000	2.13.05000	2.13.06000
<b>Art. 130*</b> <b>Art. 130S*</b>	Cad / Each					
Extra large / Extra width						
* Viti per fissaggio a richiesta Fixing screws on request						
Ganascia sovrapponibile per pezzi tondi fissa o mobile Stack-type jaw round parts fixed or movable	Cod. Art. 131 2.13.11000	2.13.12000	2.13.13000	2.13.14000	2.13.15000	2.13.16000
<b>Art. 131*</b> <b>Art. 131S*</b>	Cod. Art. 131A 2.13.1A100	2.13.1A200	2.13.1A300	2.13.1A400	2.13.1A500	2.13.1A600
Larghezza normale / Normal width						
<b>Art. 131A*</b> <b>Art. 131AS*</b> W2	Cod. Art. 131S 2.13.1S100	2.13.1S200	2.13.1S300	2.13.1S400	2.13.1S500	2.13.1S600
Larghezza super ridotta / Super narrow width	Cod. Art. 131AS 2.13.1AS10	2.13.1AS20	2.13.1AS30	2.13.1AS40	2.13.1AS50	2.13.1AS60
* Viti per fissaggio a richiesta Fixing screws on request	Cad / Each					
Ganascia piana sovrapponibile fissa o mobile Straight stack-type jaw fixed or movable	Cod. Art. 136 2.13.61000	2.13.62000	2.13.63000	2.13.64000	2.13.65000	2.13.66000
<b>Art. 136*</b> <b>Art. 136S*</b>	Cod. Art. 137 2.13.71000	2.13.72000	2.13.73000	2.13.74000	2.13.75000	2.13.76000
Larghezza normale / Normal width						
<b>Art. 137*</b> <b>Art. 137S*</b>	Cod. Art. 136S 2.13.6S100	2.13.6S200	2.13.6S300	2.13.6S400	2.13.6S500	2.13.6S600
Larghezza super ridotta / Super narrow width	Cod. Art. 137S 2.13.7S100	2.13.7S200	2.13.7S300	2.13.7S400	2.13.7S500	2.13.7S600
* Viti per fissaggio a richiesta Fixing screws on request	Cad / Each					
Ganascia a squadra sovrapponibile fissa o mobile Square stack-type jaw fixed or movable	Cod. Art. 138 2.13.81000	2.13.82000	2.13.83000	2.13.84000	2.13.85000	2.13.86000
<b>Art. 138*</b> <b>Art. 138S*</b>	Cod. Art. 139 2.13.91000	2.13.92000	2.13.93000	2.13.94000	2.13.95000	2.13.96000
Larghezza normale / Normal width						
<b>Art. 139*</b> <b>Art. 139S*</b>	Cod. Art. 138S 2.13.8S100	2.13.8S200	2.13.8S300	2.13.8S400	2.13.8S500	2.13.8S600
Larghezza super ridotta / Super narrow width	Cod. Art. 139S 2.13.9S100	2.13.9S200	2.13.9S300	2.13.9S400	2.13.9S500	2.13.9S600
* Viti per fissaggio a richiesta Fixing screws on request	Cad / Each					
Ganascia a squadra sovrapponibile doppia Double square jaw stack-type	Cod. Art. 138D 2.13.8D100	2.13.8D200	2.13.8D300	2.13.8D400	2.13.8D500	2.13.8D600
<b>Art. 138D*</b> <b>Art. 138DS*</b>	Cod. Art. 139D 2.13.9D100	2.13.9D200	2.13.9D300	2.13.9D400	2.13.9D500	2.13.9D600
Larghezza normale / Normal width						
<b>Art. 139D*</b> <b>Art. 139DS*</b>	Cod. Art. 138DS 2.13.8DS10	2.13.8DS20	2.13.8DS30	2.13.8DS40	2.13.8DS50	2.13.8DS60
Larghezza super ridotta / Super narrow width	Cod. Art. 139DS 2.13.9DS10	2.13.9DS20	2.13.9DS30	2.13.9DS40	2.13.9DS50	2.13.9DS60
* Viti per fissaggio a richiesta Fixing screws on request	Cad / Each					
Ganascia prismatica sovrapponibile fissa o mobile Stack-type prismatic jaw fixed or movable	Cod. Art. 150 1.15.01000	1.15.02000	1.15.03000	1.15.04000	1.15.05000	1.15.06000
<b>Art. 150*</b> <b>Art. 150S*</b>	Cod. Art. 150A 1.15.0A100	1.15.0A200	1.15.0A300	1.15.0A400	1.15.0A500	1.15.0A600
Larghezza normale / Normal width						
<b>Art. 150A*</b> <b>Art. 150AS*</b>	Cod. Art. 150S 1.15.0S100	1.15.0S200	1.15.0S300	1.15.0S400	1.15.0S500	1.15.0S600
Larghezza super ridotta / Super narrow width	Cod. Art. 150AS 1.15.0AS10	1.15.0AS20	1.15.0AS30	1.15.0AS40	1.15.0AS50	1.15.0AS60
* Viti per fissaggio a richiesta Fixing screws on request	Cad / Each					

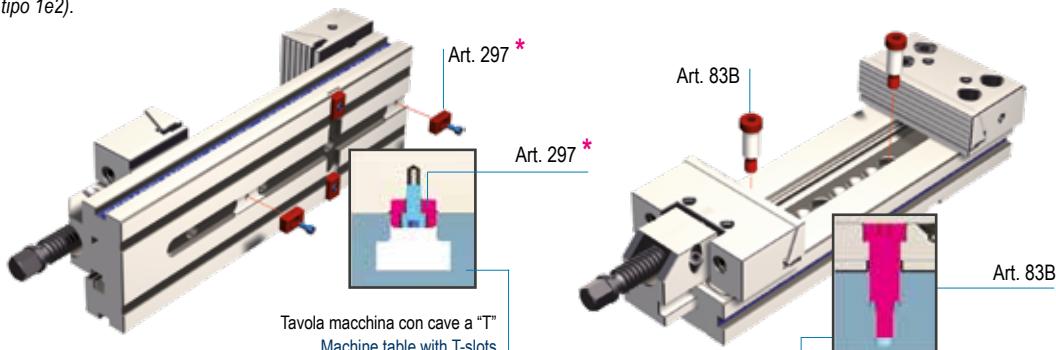
**Versione "S" in acciaio lavorabile / "S" type in soft steel****Esempi applicativi - Application examples:**

Tipo (grandezza) morsa / Vise type (size)	mm	1	2	3	4	5	6
<b>Art. 130</b> Temprate o in acciaio lavorabile Hardened or soft	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
	BD	32	42	52	62	72	82
<b>Art. 131/131A</b> Temprate o in acciaio lavorabile Hardened or soft	BF	80	84	105	120	128	135
	BY	200	250	300	350	400	600
	P	84	120	120	140	175	206
<b>Art. 136/137</b> Temprate o in acciaio lavorabile Hardened or soft	R	60	78	90	110	128	150
	Ø1 min	26	32	38	45	55	75
	Ø1 max	160	200	240	280	360	500
	W	96	121	146	171	196	296
<b>Art. 138/139</b> Temprate o in acciaio lavorabile Hardened or soft	W2	74	94	124	144	169	194
	C						
<b>Art. 138D/139D</b> Temprate o in acciaio lavorabile Hardened or soft	Q	30	30	30	30	30	30
	E						
	F						
	G						
	H						
<b>Art. 150/150A</b> Temprate o in acciaio lavorabile Hardened or soft	HB						
	C						
	G						
	H						
	B						
<b>Art. 150</b>	Ø2 min	33	43	49	60	70	
	Ø2 max	75	100	130	160	180	220
	P						
<b>Art. 150</b>	O1						
	P						
	O1 = Ø max - Ø min						

1  
**ISTRUZIONI PER UN CORRETTO UTILIZZO****ISTRUCTIONS FOR A PROPER USE****POSIZIONAMENTO**

Le morsie 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

**CONTROLLO ALLINEAMENTO TRA CAVA TRASVERSALE E GANASCIA FISSA**

Posizionare la morsa verticalmente assicurandosi che sia perfettamente

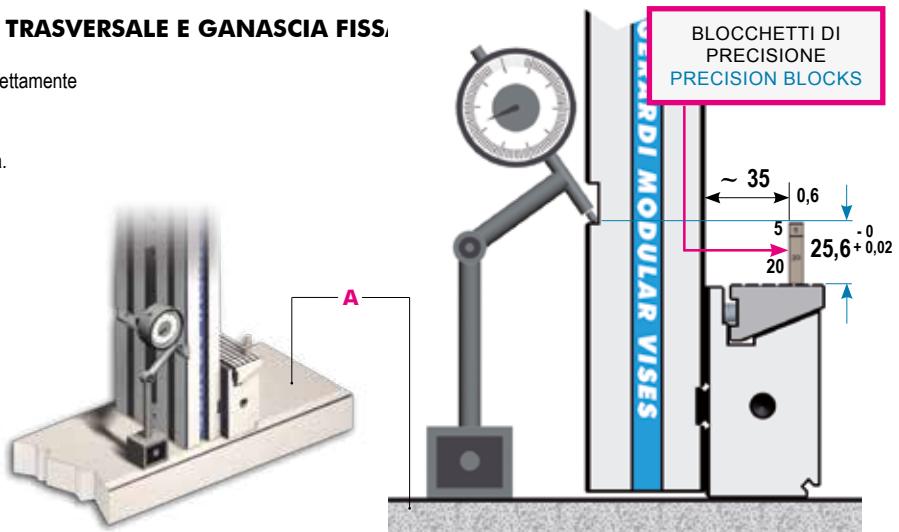
parallela al piano di appoggio **A** nei due sensi.

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 at parallel to the table **A** in both sides.

Then with an indicator check the parallelism of the keyway and its alignment with the fixed jaw plate.

**ANCORAGGIO**

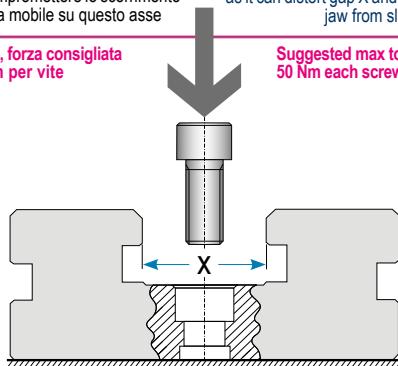
L'ancoraggio può avvenire tramite viti centrali o staffe laterali. La scelta più valida rimane comunque il fissaggio tramite staffe laterali (Art. 296). Due morsie parallele allineate tramite chiavetta centrale, viti calibrate o riferimenti laterali, mantengono lo stesso riferimento sulle ganasce fisse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

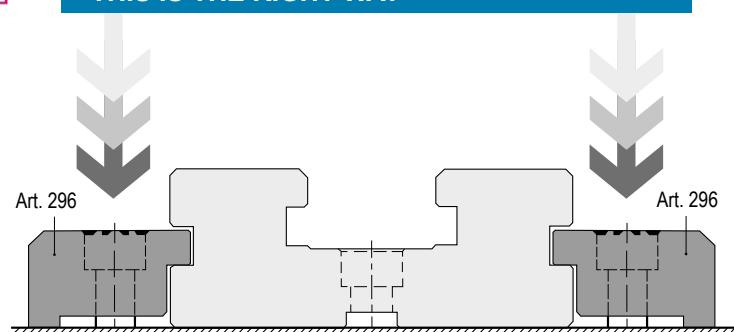
Suggested max torque 50 Nm each screw for type 3 vise

**VISE 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.

**IL METODO CORRETTO È QUESTO****THIS IS THE RIGHT WAY**

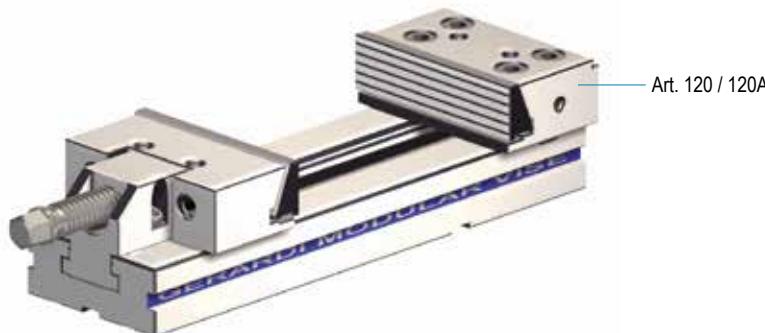
# ISTRUZIONE PER UN CORRETTO UTILIZZO

## ISTRUCTIONS FOR A PROPER USE

### OPERAZIONI PER UN CORRETTO SERRAGGIO DEI PEZZI

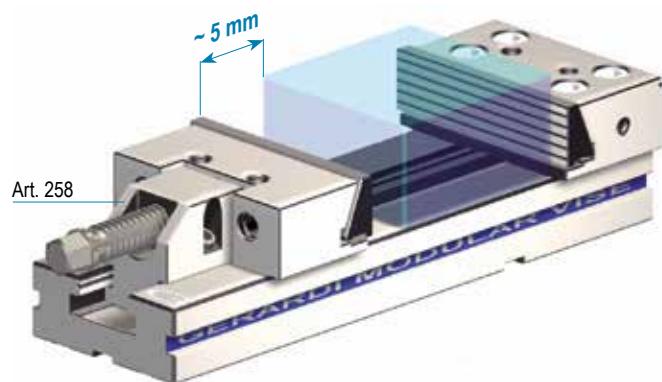
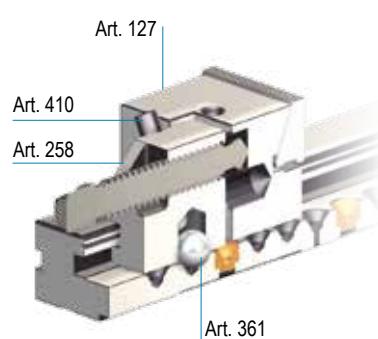
*Le illustrazioni si riferiscono all' Art. 1 "STANDARD"*

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



**Fig.1 | Pic.1**

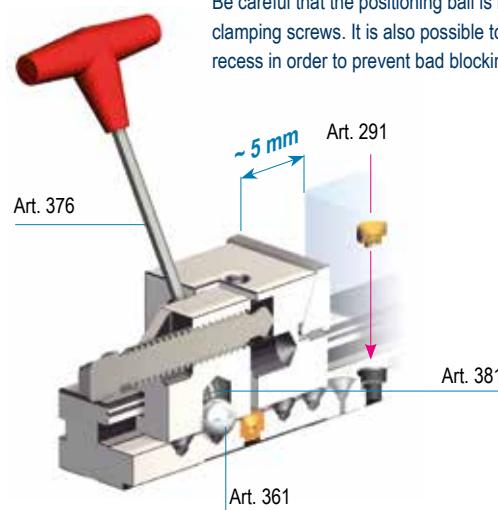
- 2-** Posizionare la ganascia mobile Art. 127 / 127A allentando i due grani Art. 410 per consentire il sollevamento della sfera calibrata Art. 361 e quindi lo spostamento di tutto il gruppo di serraggio Art. 258 in una posizione più idonea sullo slittone di base, lasciando circa 5 mm di aria rispetto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



**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)



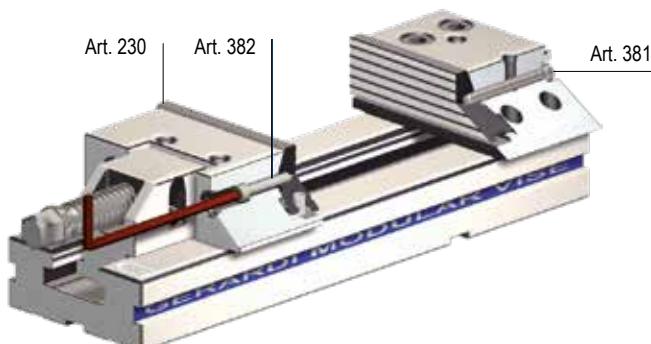
**Fig.3 | Pic.3**

# UTILIZZO E MANUTENZIONE DELLE MORSE STD

## USE AND MAINTENANCE OF STD VISSES

### UTILIZZO DELL' OPZIONE "EFFETTO DISCENDENTE"

**4-** Nel caso di morse Art.1 volendo avvalersi della opzione piastre 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 VISSES

Allentando le viti di 1/4 di giro si ha un sollevamento della piastra della ganascia Art. 230 grazie alla spinta della molla Art. 362.  
Esegui l'azzeramento mentre con il pezzo serrato  
Loosing 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

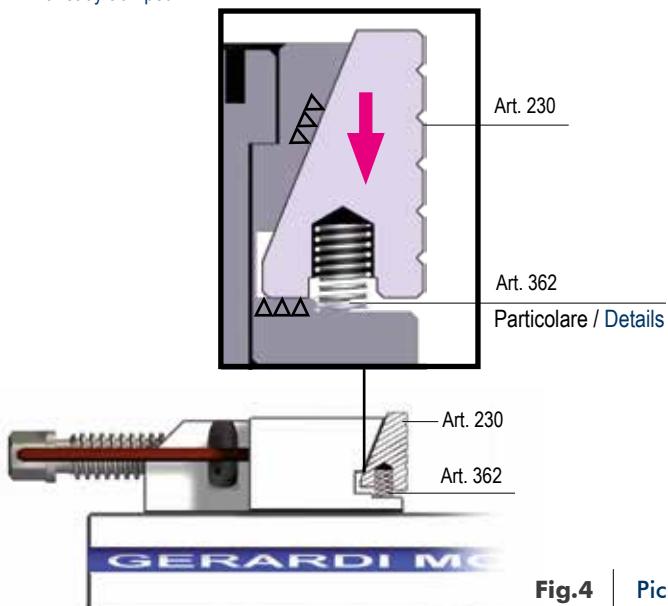
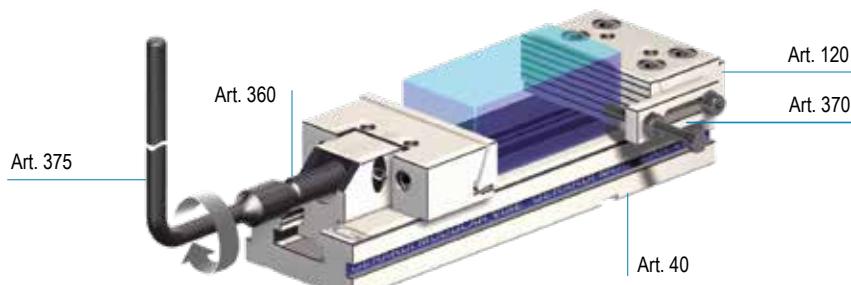


Fig.4 | Pic.4

**5-** Posizionare il pezzo da serrare sullo slittone Art. 40 o 40A e tenerlo contro la ganascia fissa Art. 120 o 120A. Per un corretto posizionamento del pezzo ci si può avvalere dei riferimenti laterali Art. 370. (Fig. 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 ganascia tocca il particolare (valori indicativi in tabella). (Fig. 6)

**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)

Fig.5 | Pic.5

**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

— 90° max

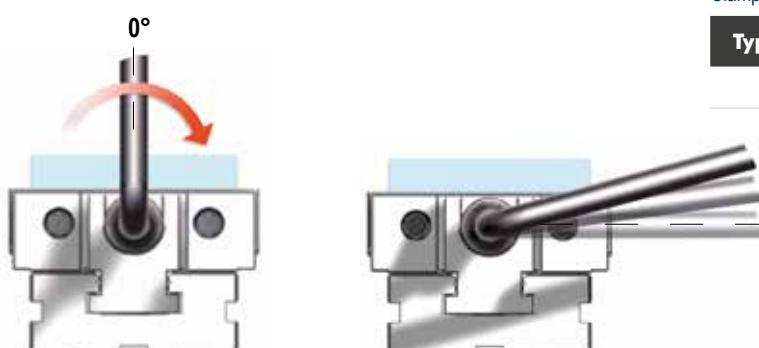


Fig.6 | Pic.6

# 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:

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

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

Eseguite a temperatura ambiente ( $20^\circ$ ) con chiave dinamometrica  
Test made with  $20^\circ$  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

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.

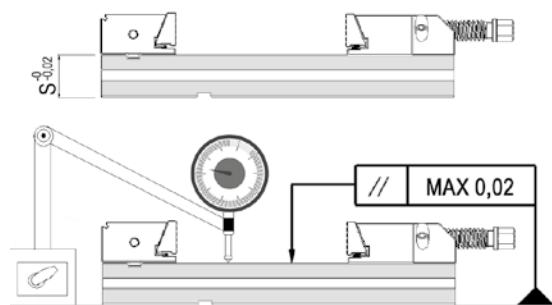
### WARNING

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

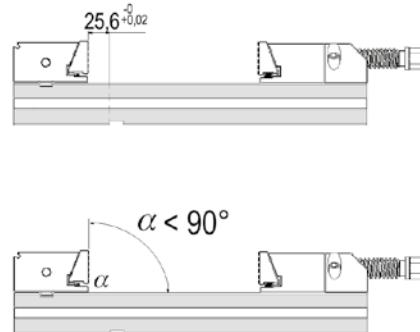
- 1 Clamp the workpiece with a torque wrench set according to the "CLAMPING TEST" table.
- 2 Set the right torque through a clock indicator positioned on the workpiece, then proceed with the machining operations.
- 3 Clamp next similar workpieces with the same clamping power.

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

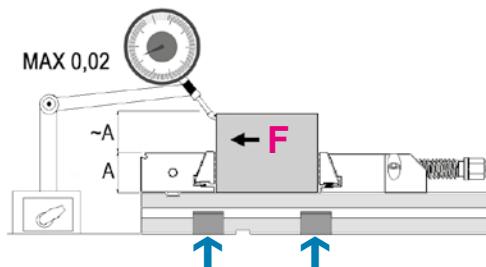
### TOLLERANZE GEOMETRICHE



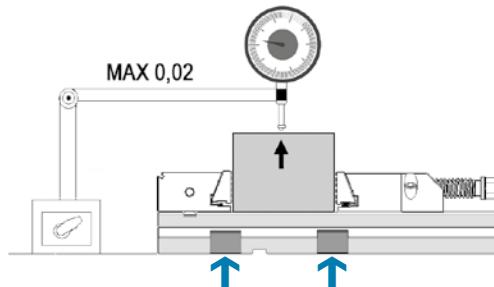
### GEOMETRIC ACCURACIES



### TOLLERANZE DINAMICHE



### DYNAMIC ACCURACIES

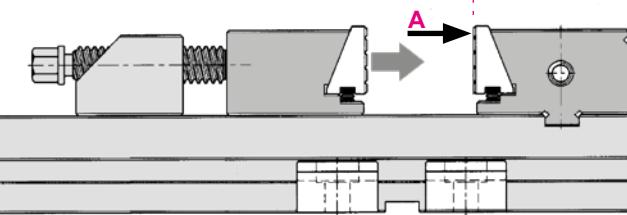


Morsa ancorata con 2 coppie di staffe Art.296 / Vise clamped with n. 2 pairs of Art.296

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

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



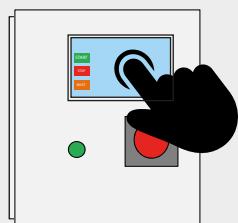
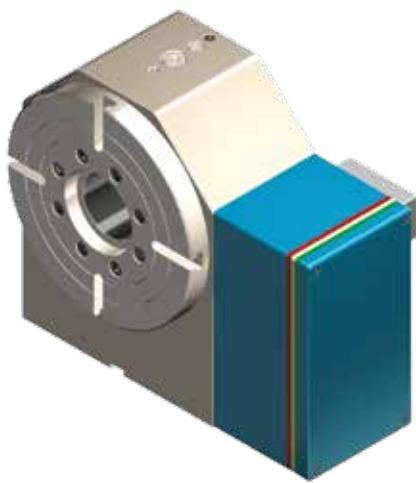


# DIVISORE AUTOMATICO DPG 250

## AUTOMATIC DIVIDING HEAD DPG 250

NEW!

**Divisore automatico**  
Automatic dividing head

**DPG 250**

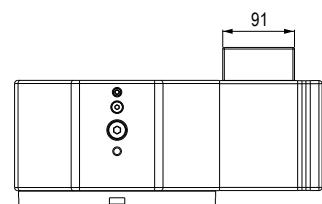
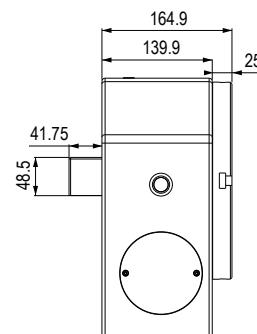
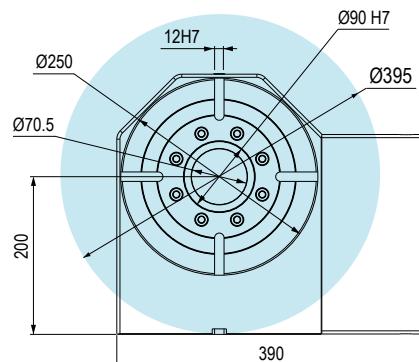
**PROGRAMMAZIONE TOUCH SCREEN**  
FACILE ED INTUITIVA O TRAMITE COLLEGAMENTO  
DIRETTO AL CNC

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

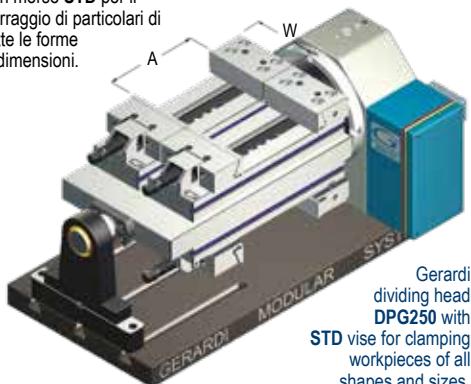
- Installazione semplice (alimentazione 220V)
- Corona in bronzo speciale
- Controsupporto semplice
- Vite senza fine in acciaio temprato e rettificato
- Vite e corona in bagno d'olio
- Cuscinetti a vite precaricati
- Cuscinetto anteriore a rulli incrociati sovradimensionato
- Recupero gioco con avvicinamento 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

**Dati tecnici**  
Technical Data

Diametro del divisore Dividing head diameter	250 mm						
Diametro del foro passante Clearance hole diameter	70,5 mm						
Altezza punte Center height	200 mm						
Dimensione della scanalatura a T T-Slot width	12 mm						
Sistema di bloccaggio Clamping system	Idraulico Hydraulic						
Forza frenante Clamping torque	3000 Nm						
Motore Servo motor	3000 Max.g/min						
Minimo incremento Minimum increment	0,002						
Velocità di rotazione Rotation speed	33,3 Giri/min						
Rapporti vite/corona Speed reduction ratio (screw/gear)	1/90						
Rapporti vite/motore Speed reduction ratio (screw/motor)	1/180						
Precisione Indexing accuracy	±10 Sec.						
Ripetibilità Repeatability	4 Sec.						
Max. carico di lavoro sul divisore Max. allowable work weight on the dividing head	<table border="1"> <tr> <td>Verticale Vertical</td> <td></td> <td>Kg.550</td> </tr> <tr> <td>Orizzontale Horizontal</td> <td></td> <td>Kg.1500</td> </tr> </table>	Verticale Vertical		Kg.550	Orizzontale Horizontal		Kg.1500
Verticale Vertical		Kg.550					
Orizzontale Horizontal		Kg.1500					
Max. carico di spinta applicabile sul divisore Max. allowable tool load on the dividing head	<table border="1"> <tr> <td></td> <td>N 25000</td> </tr> <tr> <td></td> <td>FxL Nm 1000</td> </tr> <tr> <td></td> <td>FxL Nm 2200</td> </tr> </table>		N 25000		FxL Nm 1000		FxL Nm 2200
	N 25000						
	FxL Nm 1000						
	FxL Nm 2200						
Rapporti vite/corona Speed reduction ratio (screw/gear)	<table border="1"> <tr> <td>Verticale Vertical</td> <td></td> <td>10,5 Kg. m<sup>2</sup></td> </tr> </table>	Verticale Vertical		10,5 Kg. m <sup>2</sup>			
Verticale Vertical		10,5 Kg. m <sup>2</sup>					
Coppia in lavoro Driving torque	<table border="1"> <tr> <td>Corona dentata Worm gear</td> <td></td> <td>698 Nm</td> </tr> </table>	Corona dentata Worm gear		698 Nm			
Corona dentata Worm gear		698 Nm					
Kg	110						
Cod.	8.DPG2500						

**DPG 250**

Tipo (grandezza) morsa / Vise type (size) Montaggio / Mounting		1	2	3		4			
		Double							
Apertura massima / Maximum spread	A	100	150	200	300	200	300	400	500
Divisore Gerardi DPG250 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		
	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



## UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

## Art. 99A



Cod.

7.99.A1000

Supporto  
Support

## Art. 99B



Cod.

1.99.B1000

Perno di centraggio orizzontale  
Horizontal centering pin

## Art. 99H



Cod.

1.99.H1000

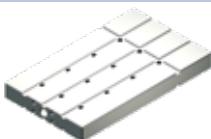
Distanziale  
SpacerArt. 62  
DPG 250

Cod.

1.62.DPG25

Piatta di interfaccia DPG 250 per STD  
DPG 250 connecting plate for STD

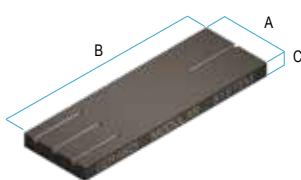
## Art. 99T



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

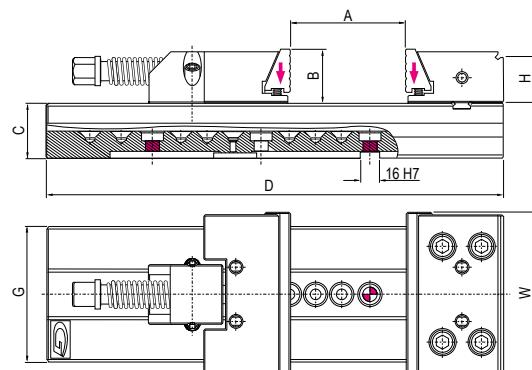
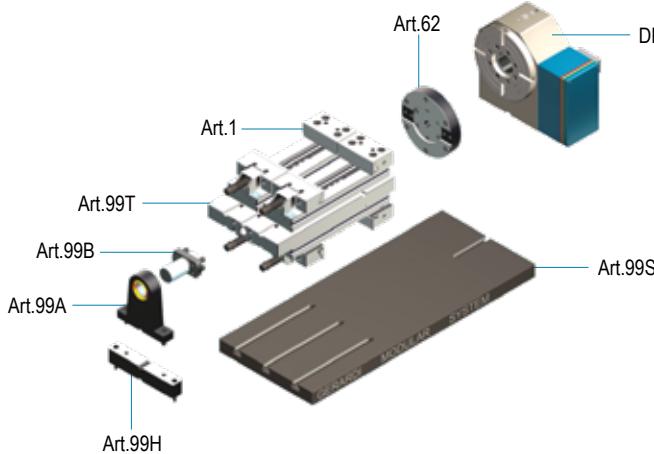
Sovratavola per divisore  
Head-plate for dividing head

## Art. 99S

Piastra base con cave  
Piani rettificati  
Base plate with slot  
Faces groundCave o fori calibrati su richiesta  
Slot or calibrated holes on request

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	

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 automatico**  
Automatic dividing head

### DIVIGER 205



**Dati tecnici**  
Technical Data

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

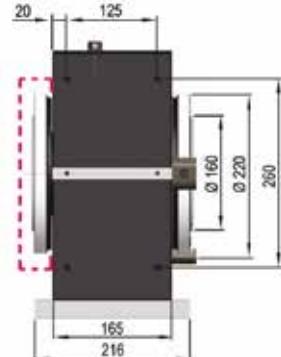
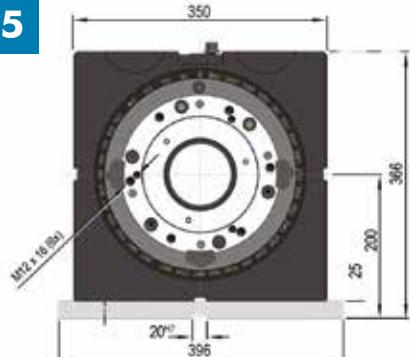
DIVISORE MECCANICO, SENZA CAVI O IDRAULICA,  
PER MACCHINE A CNC

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 particoli 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



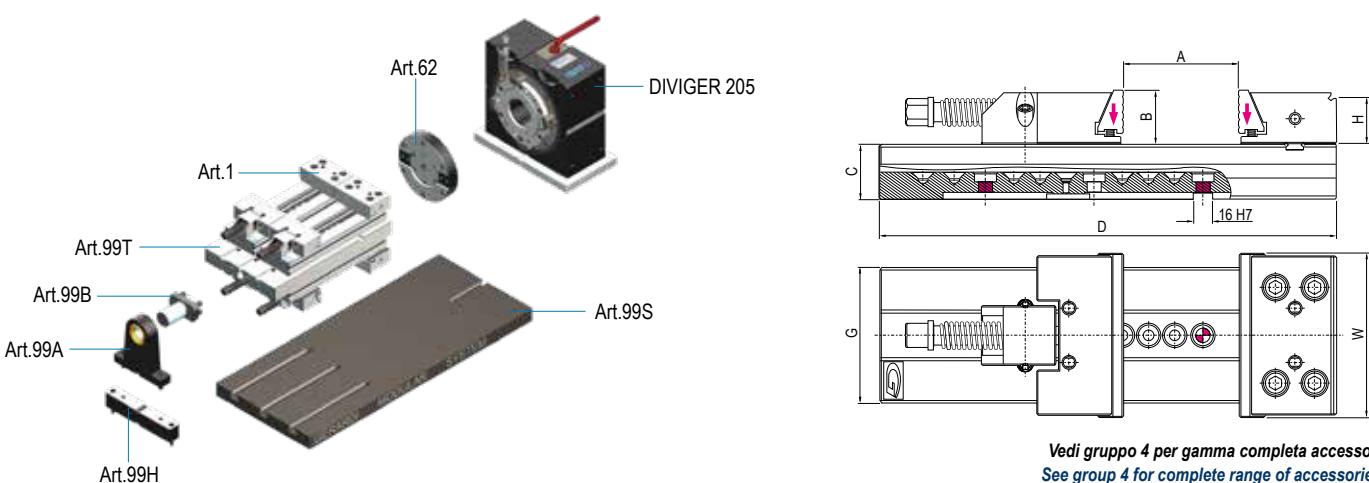
### DIVIGER 205



<b>Tipo (grandezza) morsa / Vise type (size)</b>	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>					
	<b>Double</b>	<b>Double</b>	<b>Double</b>	<b>Double</b>					
Apertura massima / Maximum spread	A	100	150	200	300	200	300	400	500
DIVIGER 205 con morse STD per il serraggio di particolari di tutte le forme e dimensioni.	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		
DIVIGER 205 with STD vise for clamping workpieces of all shapes and sizes.	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

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

<b>Art. 99A</b>		Cod.	7.99.A1000				
Supporto Support							
<b>Art. 99B</b>		Cod.	1.99.B1000				
Perno di centraggio orizzontale Horizontal centering pin							
<b>Art. 99H</b>		Cod.	1.99.H1000				
Distanziale Spacer							
<b>Art. 62</b> <b>DIVIGER 205</b>		Cod.	1.62.DIV205				
Piastra di interfaccia DIVIGER 205 per STD DIVIGER 205 connecting plate for STD							
<b>Art. 99T</b>		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				
Sovratavola per divisore Head-plate for dividing head							
<b>Art. 99S</b>		Dimensioni B mm Dimension B mm	A C Kg Cod. €				
Piatra base con cave Piani rettificati Base plate with slot Faces ground		600 750 900 1100	400 400 400 400	50 50 50 50	94 117 141 172	7.99.S060S 7.99.S075S 7.99.S090S 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					





# 1 DIAGRAMMI SERRAGGIO MECCANICO CON CHIAVE DINAMOMETRICA

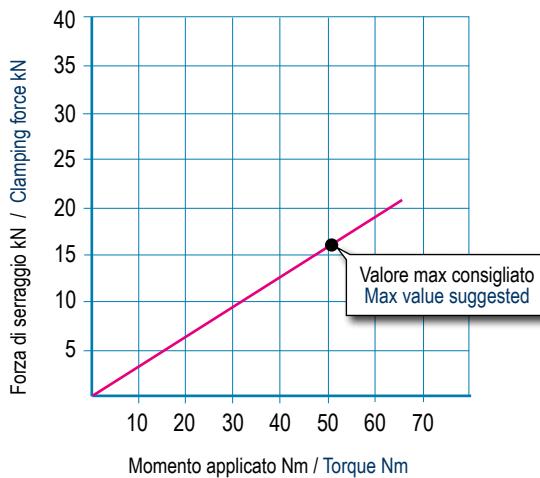
## DIAGRAMS MECHANICAL CLAMPING WITH TORQUE WRENCH



Art. 1 / 1A / 700

### MORSE STD e StandardFLEX TIPO STD and StandardFLEX VISES TYPE

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



1

## 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

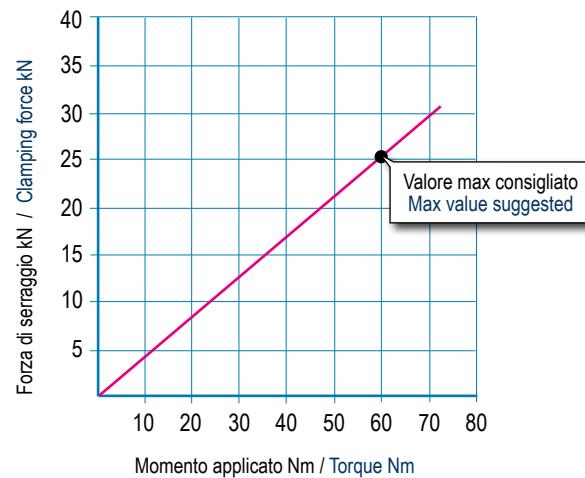
(Art. 258 and similar)

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 STD and StandardFLEX VISES TYPE

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

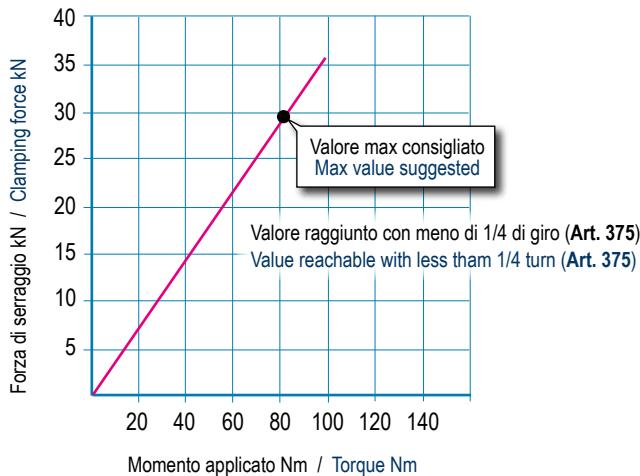
2



### MORSE STD e StandardFLEX TIPO STD and StandardFLEX VISES TYPE

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

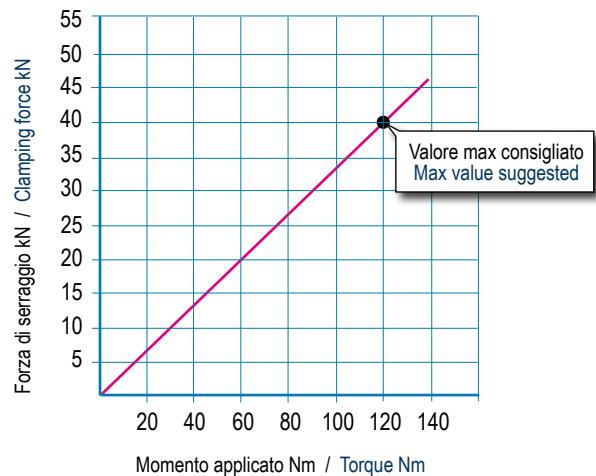
3-4



### MORSE STD e StandardFLEX TIPO STD and StandardFLEX VISES TYPE

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

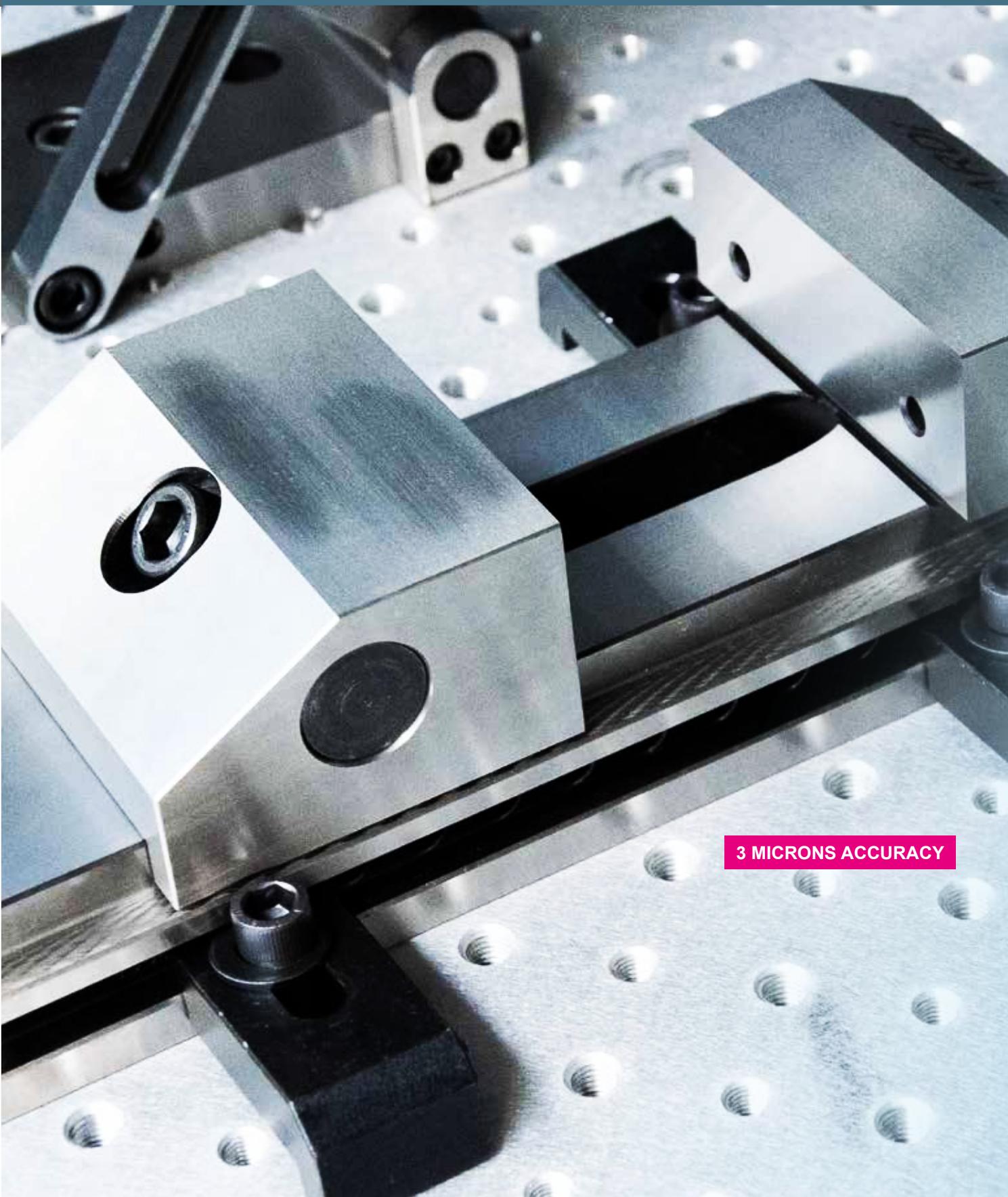
5-6



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**

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

**Main OK vises technical features**

- Tutta la cassa in acciaio trattato e acciaio HRC 60
- Quadratità e parallellismo: 0,003 mm / 100 mm
- Ideale per lavori di controllo, rettifica, elettroerosione e fresatura



**3 MICRONS ACCURACY**

Tipo (grandezza) morsa / Vise type (size)	kN	0	1	2 16 kN	3 16 kN	4 18 kN	5 18 kN	6 18 kN	7 18 kN	8 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>Art. 666</b>	B	15	28	40	45	50	50	50	50	63
Morsa serie OK in acciaio / Series OK vises in steel	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. 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

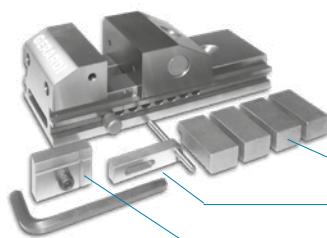
\* Acciaio temprato a basso contenuto di ferro (Max resistenza alla corrosione dopo tempra, rinvenimento e rettifica)  
 Low carbon hardened steel (max resistance against corrosion after hardening process and grinding operations)

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

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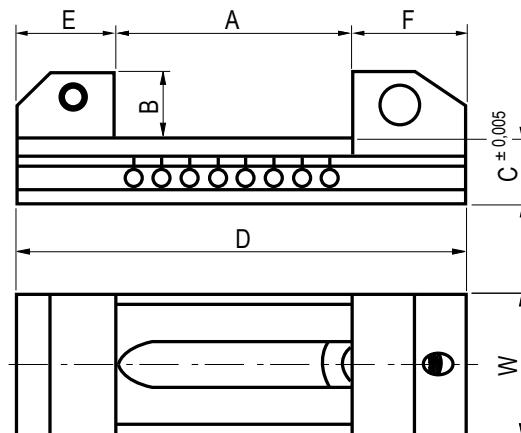
**Dotazione standard:**

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

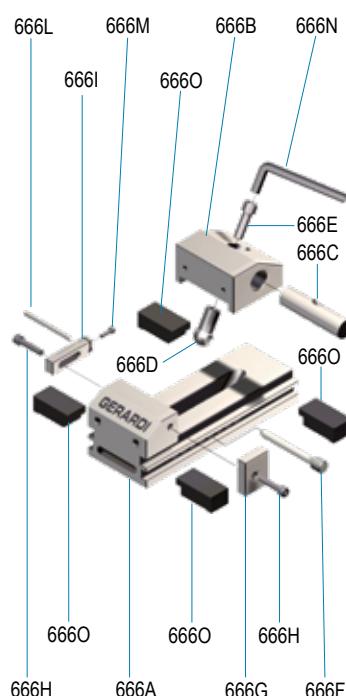


**Standard equipment:**

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

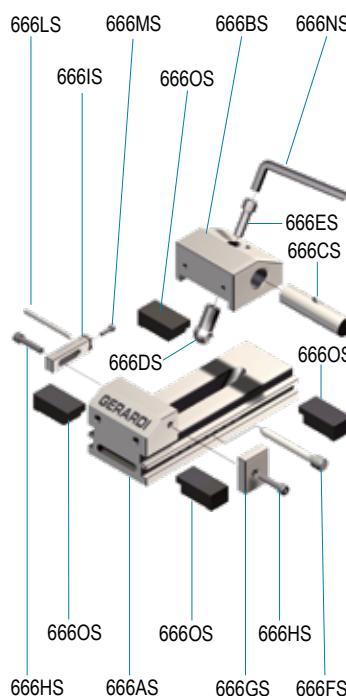


Tipo (grandezza) morsa / Vise type (size)	0	1	2 16 kN	3 16 kN	4 18 kN	5 18 kN	6 18 kN	7 18 kN	8 20 kN
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**Parti di ricambio per Art. 666 / Spare parts for Art. 666**
**Art. 666**


<b>Art. 666A</b>	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
<b>Art. 666B</b>	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
<b>Art. 666C</b>	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
<b>Art. 666D</b>	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
<b>Art. 666E</b>	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
<b>Art. 666F</b>	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
<b>Art. 666G</b>	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
<b>Art. 666H</b>	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
<b>Art. 666I</b>	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
<b>Art. 666L</b>	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
<b>Art. 666M</b>	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
<b>Art. 666N</b>	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
<b>Art. 666O</b>	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 16 kN	3 16 kN	4 18 kN	5 18 kN	6 18 kN	7 18 kN	8 20 kN
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**Parti di ricambio in acciaio inox per Art. 666S / Spare parts in stainless steel for Art. 666**
**Art. 666S**


<b>Art. 666AS</b>	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
<b>Art. 666BS</b>	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
<b>Art. 666CS</b>	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
<b>Art. 666DS</b>	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
<b>Art. 666ES</b>	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
<b>Art. 666FS</b>	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
<b>Art. 666GS</b>	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
<b>Art. 666HS</b>	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
<b>Art. 666IS</b>	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
<b>Art. 666LS</b>	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
<b>Art. 666MS</b>	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
<b>Art. 666NS</b>	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
<b>Art. 666OS</b>	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

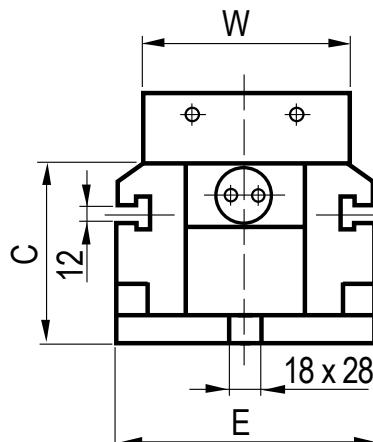
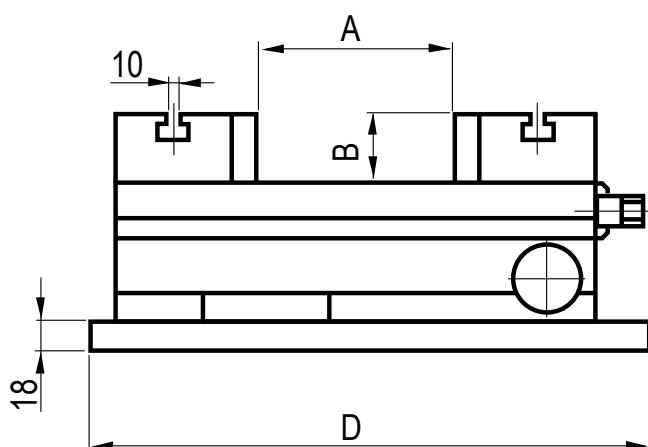
<b>Tipo (grandezza) morsa / Vise type (size)</b>		<b>1</b>	<b>2</b>
Apertura massima / Maximum spread	A	130	130
Forza di serraggio / Clamping force	kN	15	30
<b>Art. 671</b>	Morse pneumatiche / Pneumatic vises	W B C D E	105 40 105 317 130
Ingresso aria 3/4" gas - Ø 8 - 7bar Air inlet 3/4" gas - Ø 8 - 7bar	kg	29,5	42
	Cod.	1.67.11000	1.67.12000


**Tipo / Type 1**

**Tipo / Type 2**

- Costruita in acciaio di alta qualità, cementato e temprato  
Durezza HRC58-62
- Ortegualità e parallelismo: 0,02 mm
- Superficie 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)

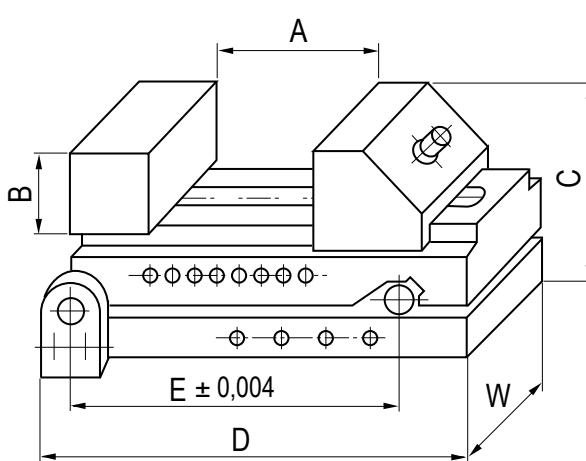
Dotazione standard: 1 arresto laterale Art. 370  
Raccordo per aria (1/4" gas - Ø8) Art. PN04  
Standard equipment: Workstop Art 370  
Air connection (1/4" gas - Ø8) Art. PN04



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°) 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



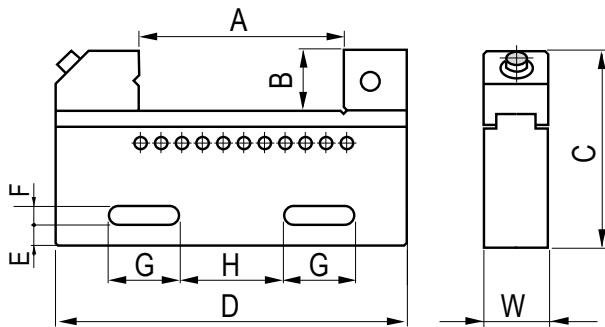
Dotazione standard: 2 chiavi di servizio Art. 376  
Standard equipment: 2 wrenches Art. 376



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 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



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



# 1 MORSE per RETTIFICA

## GRINDING VISES

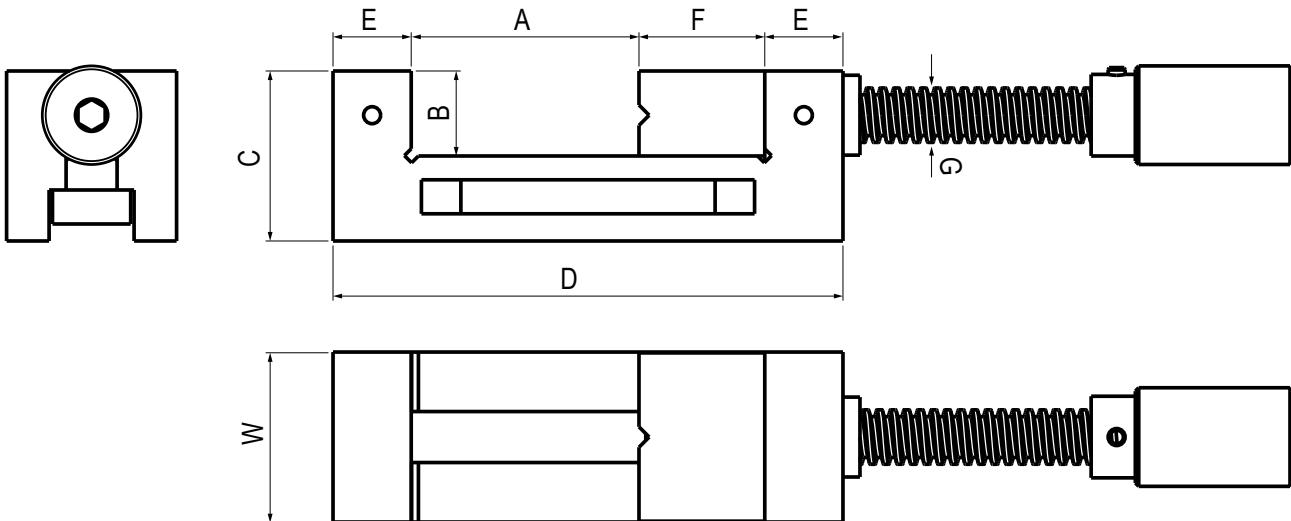
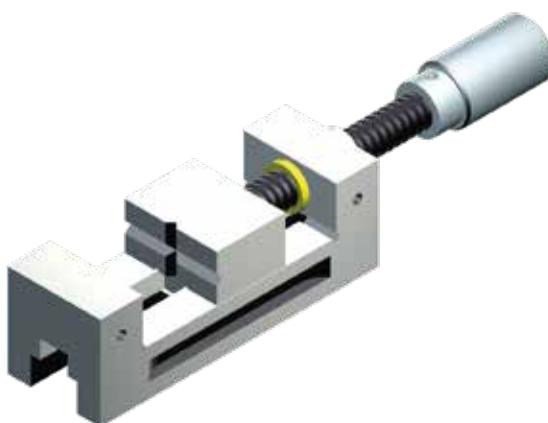
3 MICRONS ACCURACY

**Una morsa estremamente precisa, adatta a lavorazioni di rettifica**

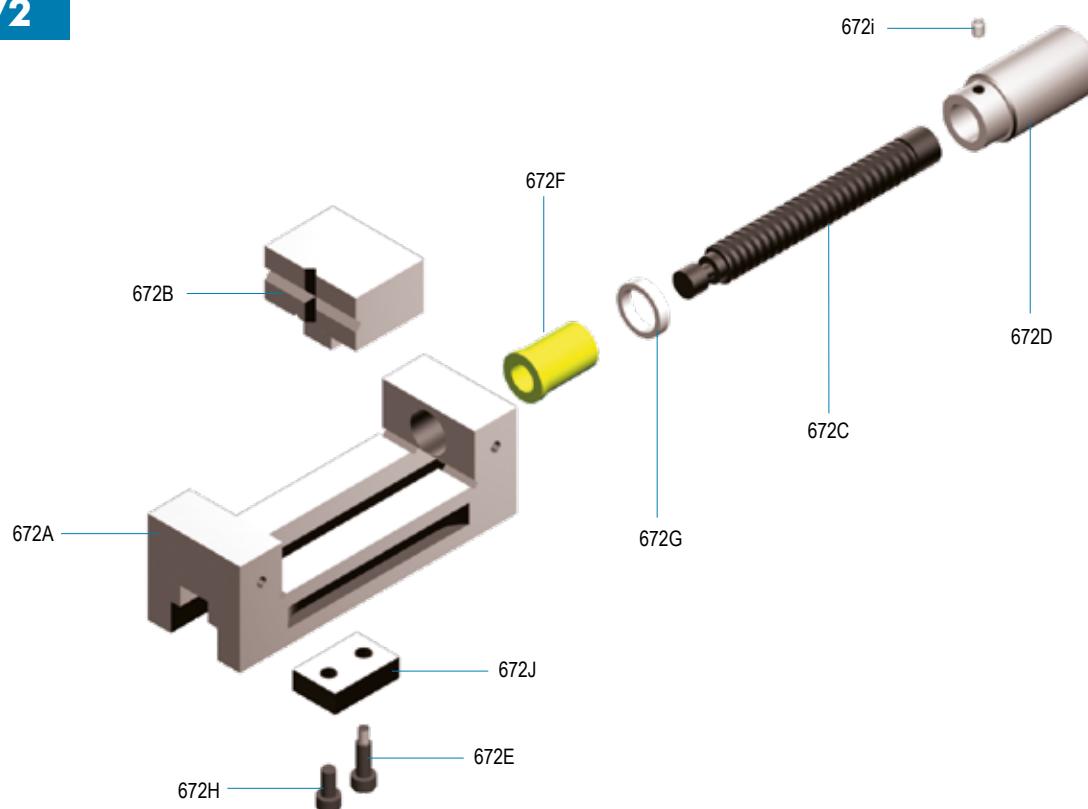
**High precision vise ideal for grinding operations**

- 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 ganascia mobile ha due V ortogonali per bloccare pezzi cilindrici
- Tolleranze millesimali: ± 0.003 mm.
- Ideal for high-precision grinding machines or for inspection work
- Entirely made of non-deformable alloy steel hardened to 58/60 HRC
- Perfectly ground surfaces in order to reach 90° in any position
- The movable jaw has two prismatic surfaces in order to clamp round workpieces
- Accuracy: ± 0.003 mm

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6	7	
Apertura massima / Maximum spread	A	67	87	102	102	127	160	170
Art. 672	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



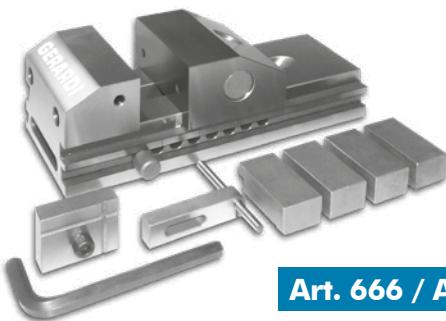
Tipo (grandezza) morsa / Vise type (size)	kN	1	2	3	4	5	6	7
Base Morsa Vise Base		<b>Art. 672A</b>	Cod. 1.67.2A100 1.67.2A200 1.67.2A300 1.67.2A400 1.67.2A500 1.67.2A600 1.67.2A700					
Ganascia Mobile Movable Jaw		<b>Art. 672B</b>	Cod. 1.67.2B100 1.67.2B200 1.67.2B300 1.67.2B400 1.67.2B500 1.67.2B600 1.67.2B700					
Vite di Spinta 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 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 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					
Boccolla 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 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 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 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 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**




# 1 DIAGRAMMI SERRAGGIO MECCANICO CON CHIAVE DINAMOMETRICA

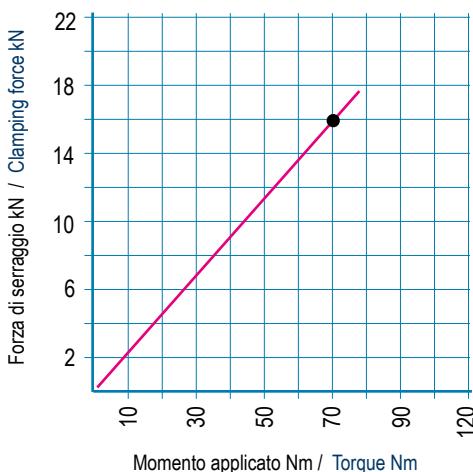
## DIAGRAMS MECHANICAL CLAMPING WITH TORQUE WRENCH



Art. 666 / Art. 666S

### MORSE OK TIPO OK VISES TYPE 2

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

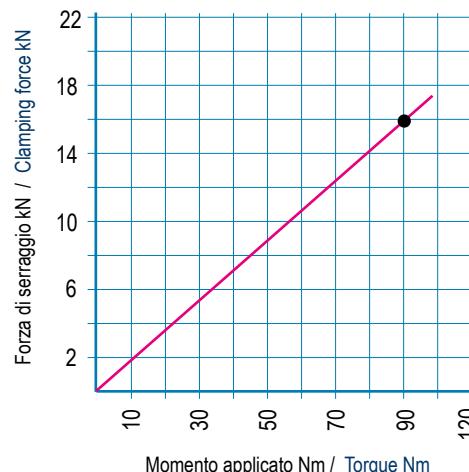


I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con le morse di varia grandezza (da 2 a 8), in funzione del momento applicato

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

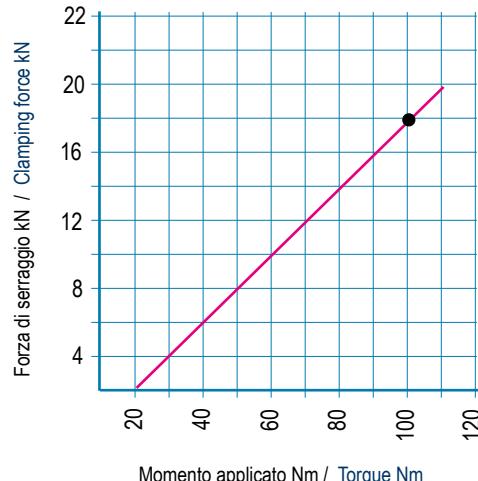
### MORSE OK TIPO OK VISES TYPE 3

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



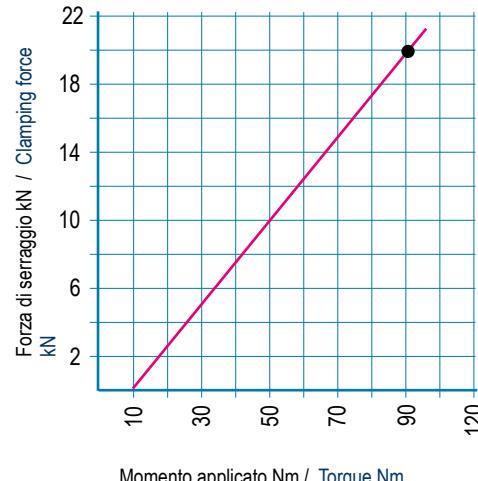
### MORSE OK TIPO OK VISES TYPE 4-5-6-7

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



### MORSE OK TIPO OK VISES TYPE 8

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 factors 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.