

**XL Series  
MORSE - VISES**



MADE IN ITALY



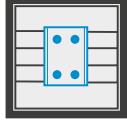
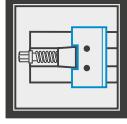
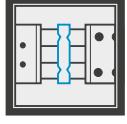
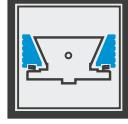
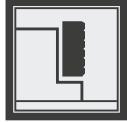
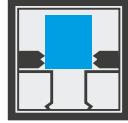
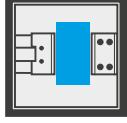
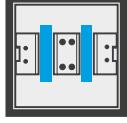
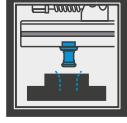
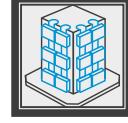
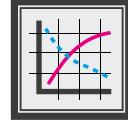
## **INDICE - INDEX**

2

<b>Art.</b>	<b>Pag 2.</b>
<b>20</b>	6
<b>21</b>	8
<b>22</b>	10
<b>24</b>	12
<b>25</b>	14
<b>30</b>	16
<b>32</b>	18
<b>34</b>	20
<b>35</b>	22
<b>20A</b>	26
<b>30A</b>	28
<b>42</b>	30
<b>42Z</b>	30
<b>212</b>	6-8-12-16-20-26-28
<b>213</b>	10 - 18
<b>217</b>	6 - 8 - 16
<b>218</b>	10 - 14 - 18 - 22
<b>230E</b>	26 - 28
<b>230B</b>	26 - 28
<b>230F</b>	26 - 28
<b>242G</b>	6 - 8 - 16
<b>243G</b>	10 - 18
<b>246</b>	12 - 20
<b>246G</b>	12 - 20
<b>247</b>	14 - 22
<b>247G</b>	14 - 22
<b>271</b>	from 6 to 22
<b>313</b>	6 - 8 - 12 - 16 - 20
<b>313R</b>	10 - 14 - 18 - 22
<b>391</b>	from 6 to 28



## SIMBOLOGIA DATI TECNICI TECHNICAL DATA ICONS

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

# MORSE series XL

## XL VISES series

**La Morse XL prendono il nome dalle dimensioni Extra Large delle loro basi, molto più lunghe delle morse STD !**  
**XL vises derive their name from the Extra Large vise base dimension that is much longer than STD vises !**

Le morse **GERARDI** sono ormai considerate sinonimo di produzione ad alto livello tecnologico per l'accurata scelta dei materiali impiegati e per la precisione raggiunta anche nei minimi particolari. Accuratamente rettificate in ogni loro particolare ed ampiamente collaudate, consentono:

- ✓ una capacità di massimo rendimento della macchina / ✓ un forte carico di pressione / ✓ una maggior potenza di taglio,
- ✓ esclusione totale di vibrazioni / ✓ minor usura dell'utensile / ✓ una più precisa lavorazione

La costruzione con un sistema di elementi componibili consente le più svariate possibilità di impiego e combinazioni in caso di necessità.

Lo spazio sulla tavola della macchina a volte è limitato: le morse **XL** sono la risposta che vi permette di avere **due morse in una** perché si possono trasformare rapidamente da **morsa doppia a morsa singola di grande apertura**. La versione **XL doppia** permette la lavorazione di un numero maggiore di pezzi sfruttando al massimo la lunghezza della tavola della macchina utensile, ciò significa aumentare la produttività delle fasi attive del ciclo e di macchina stessa in quanto abbiamo:

- ✓ riduzione del numero dei carichi e conseguente risparmio dei tempi morti di fermo macchina / ✓ una minore incidenza (50%) dei tempi di cambio utensile / ✓ minori tempi di spostamento da una serie di pezzi a quella successiva / ✓ minore usura della macchina / ✓ operatore più libero dati i più lunghi tempi di ciclo complessivi.

In definitiva tutto ciò permette di ridurre al minimo i tempi morti di lavoro e quindi un più rapido ammortamento degli impianti e delle stesse attrezzature. La versione **XL singola** permette il serraggio di **pezzi di dimensioni insolite e di piastre** (con le appropriate ganasce). La notevole gamma di dimensioni e lunghezze delle basi garantisce il soddisfacimento delle più svariate necessità nonché una rigidità notevole dell'attrezzatura. Esiste la possibilità comunque di connettere due basi singole tramite un'apposita **ganascia fissa doppia di collegamento** per ottenere una morsa **XL doppia** da due basi standard (gr. 1) singole. A richiesta tutte le morse sono fornibili con tasselli di riferimento di varie grandezze o con fori calibrati.

**GERARDI** vises are manufactured under rigid quality control. Only the most suitable materials are used, and the accuracy of even the smallest components is assured. As a result of the high standard construction Gerardi vises can maintain their accuracy under the most severe operating conditions. Hardened and Ground steel construction throughout allowing you maximum machine performance with:

- ✓ bigger clamping power / ✓ bigger cutting performances / ✓ total exclusion of vibrations / ✓ lower tool wear
- ✓ higher precision during machinework

The modular design and the concept of interchangeability makes possible a wide variety of set up combination and solutions.

Space on the machine table is sometimes limited: **XL vises** enable to have **2 vises in 1** because they can quickly change from **double vise to single vise with very large opening**. Double XL vise allows to machine more workpieces using the total length of the machine tool, this means to increase productivity of the workcycle and of the machine itself because:

- ✓ reduction of total number of loading and unloading with consequence **save of dead times/interruptions** if machine is not working,
- ✓ reduction (50%) of total tool changing time,
- ✓ lower moving time from a series of pieces to another,
- ✓ lower machine wear,
- ✓ more time the operator can walk away to do other work because of longer total cycle times.

In conclusion all this allows to reduce to a minimum dead times/interruptions and consequently **faster payback period of machines and fixtures**.

**Single XL vise** allows to clamp **pieces of unusual dimensions and plates** (with the right jaws). The very wide range of widths and lengths of bases guarantees the satisfaction of the widest variety of works and a big rigidity of the fixture too. There is anyway the possibility to connect 2 single vises through a dedicated **double fixed connection jaw** to get one XL vise starting from 2 standard single bases. On request all vises can be supplied with key-nuts of different sizes or with ground holes.



### 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.

## 1-2 RAPIDITA' DEI SERRAGGI

Grazie allo scorrimento del gruppo di serraggio nella guida della base (a crema-glieria) 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.

## 1-2 QUICK CLAMPING

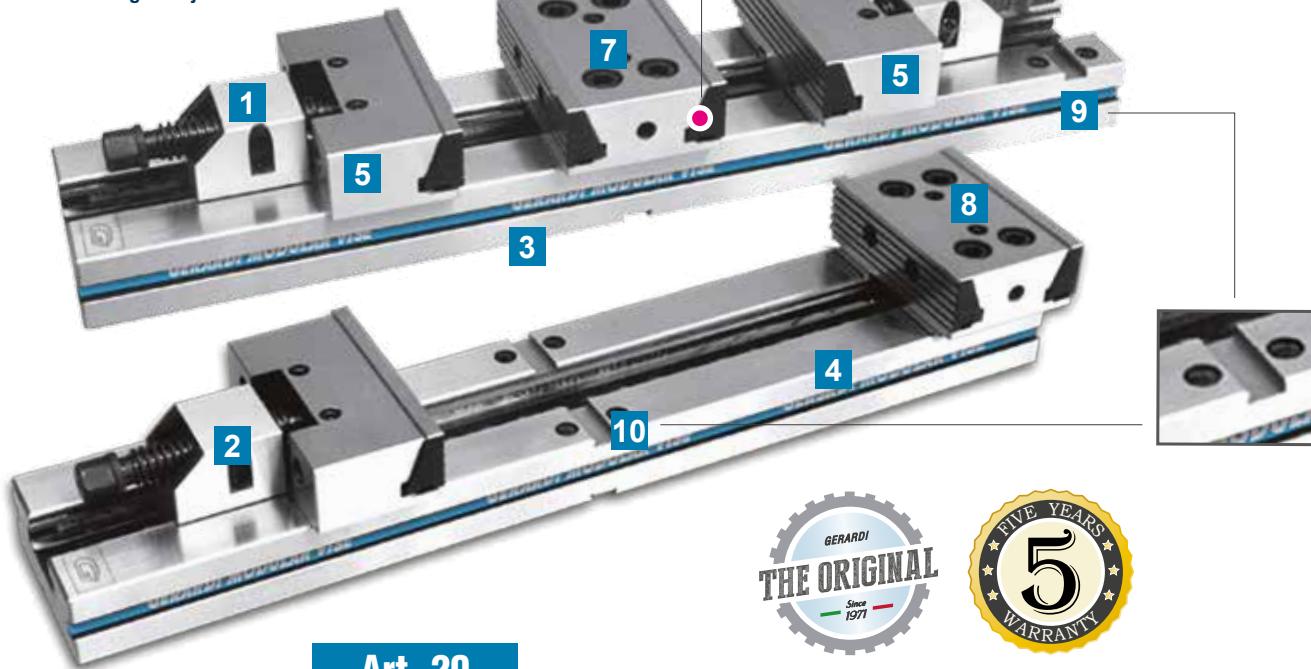
Thanks to the **clamping device sliding in the vise base slide** (compact rack type) till the proximity of the workpiece. The clamping is completed with the main screw. Besides the manual mechanic system, **4 further interchangeable and independent clamping systems** are available:

1-Hydraulic / 2-Pneumatic / 3-Manual hydraulic / 4-Electrical hydraulic.  
The change needs only few seconds.

### Art. 30

Morsa XL doppia apertura con ganascia mobile guidata monoblocco

Double opening XL vise with solid movable guided jaws



### Art. 20

## 5 SERRAGGI INDEPENDENTI

Due Gruppi di serraggio indipendenti

## 5 INDEPENDENT CLAMPINGS

Two independent clamping devices

## 7-8 GANASCIA FISSA DOPPIA

Ganasce fisse doppie posizionabili sia al centro (per serraggi doppi), sia all'estremità della base (per serraggi singoli di particolari di grosse dimensioni).

## 7-8 DOUBLE FIXED JAWS

Double fixed jaw position both in the center of the vise base (for double clamping) and at the end (for single big workpieces Clamping).

## 3-4 PRECISIONI $\pm 0,02$ mm

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

## 3-4 HIGHEST ACCURACIES $\pm 0,02$ 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) upon specific request by positioning holes ( $\varnothing 16$  mm F7) on the bottom surface of the vise base. Of course this allows **minimum of set up times and gang operations**.

## 6 FORI FILETTATI SOPRA LE GANASCE PER APPLICAZIONI SPECIALI

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

## 6 THREADED HOLES ON THE TOP OF THE JAWS FOR SPECIAL APPLICATIONS

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

## 9-10 DUE SERIE DI CHIAVETTE

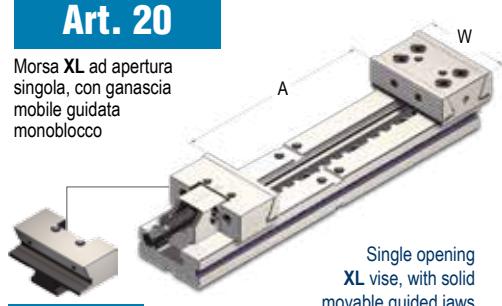
Due serie di chiavette per due posizioni alternative delle ganasce fisse doppie.

## 9-10 TWO DIFFERENT KEYWAYS

Two different keyways for two alternatives positions of the double fixed jaw.



Tipo (grandezza) morsa / Vise (type) size	kN	1	2	3	4				
		16 kN	25 kN	30 kN					
Apertura massima / Maximum spread	A	290	320	360	460	400	500	600	700
	W	100	125	150			175		
<b>Art. 20</b>	B	30	40	50			60		
Morsa XL ad apertura singola, con ganascia mobile guidata monoblocco	C	35	40	50			58		
	D	460	520	580	680	666	766	866	966
	G	75	95	125			145		
	kg	10	17	32	35	47	52	56	61
	Cod.	3.21.0000	3.22.1000	3.23.2000	3.23.3000	3.24.2000	3.24.3000	3.24.4000	3.24.5000
<b>Monoblocco - Solid</b>									



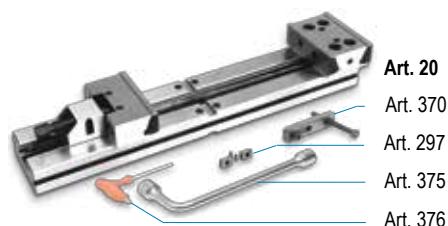
### AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

<b>Art. 313</b>	Piastre magnetiche parallele piane Magnetic parallel plates		Cod. 4.31.31000 4.31.32000 4.31.33000 4.31.34000	
			H 23 33 43	53
<b>Art. 212</b>	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	
<b>Art. 217</b>	Ganascia mobile prismatica Prismatic movable jaw		Cod. 2.21.71000 2.21.72000 2.21.73000 2.21.74000	
<b>Art. 242G</b> <span style="color:red;">NEW!</span>	Piastra ganascia con inserti GRIP Jaw plate with GRIP inserts		Cod. 1.24.2G100 1.24.2G200 1.24.2G300 1.24.2G400	
<b>Art. 271</b>	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. 403	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 morsi. Vedi da pag. 4.36 a 4.47

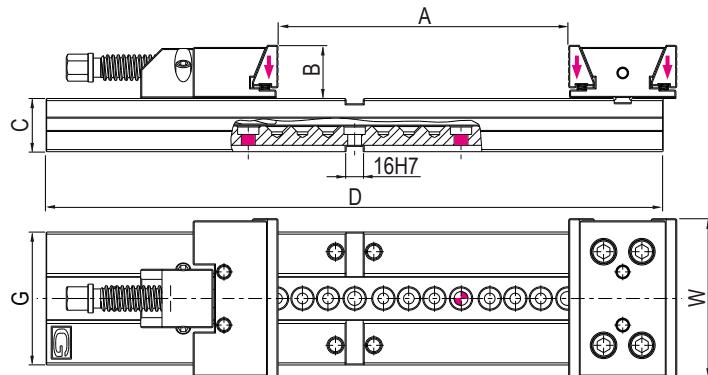
#### Dotazione standard:

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



#### Standard equipment:

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



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



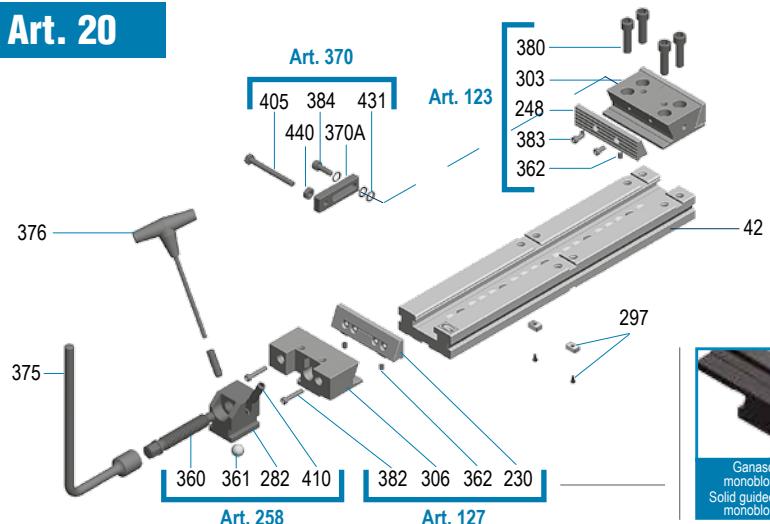
5 40 kN					6 40 kN							
500	600	700	800	900	500	600	700	800	900	1000	1100	
200								300				
65								80				
70								78				
805	905	1005	1105	1205	900	1000	1100	1200	1300	1400	1500	
170								195				
64	69	74	79	84	95	105	115	125	135	145	155	
3.25.20000	3.25.30000	3.25.40000	3.25.50000	3.25.60000	3.26.20000	3.26.30000	3.26.40000	3.26.50000	3.26.60000	3.26.70000	3.26.80000	

### UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

4.31.35000 <b>Art. 313</b> 53		4.31.36000 68
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 4.36 to 4.47

### Art. 20



Art.	Pag.
42	2.30
230	4.9
248	4.9
282	4.32
297	4.31
303	4.25
306	4.25
360	4.32
361	4.32
362	4.24
370A	4.31
-	-

Art.	Pag.
375	4.31
376	4.31
380	4.24
382	4.24
383	4.24
384	4.24
405	4.31
410	4.32
431	4.24
440	4.24
-	-



Tipo (grandezza) morsa / Vise (type) size	kN	1	2	3	4				
		16 kN	25 kN	30 kN	30 kN				
Apertura massima / Maximum spread	A	290	320	360	460	400	500	600	700
	W	100	125	150			175		
<b>Art. 21</b>	B	30	40	50			60		
Morsa XL ad apertura singola, con ganascia fissa singola	C	35	40	50			58		
	D	460	520	580	680	666	766	866	966
	G	75	95	125			145		
Monoblocco - Solid	kg	10	17	32	35	47	52	56	61
	Cod.	2.21.00000	2.21.23200	2.21.33600	2.21.34600	2.21.44000	2.21.45000	2.21.46000	2.21.47000

Single opening XL vise, with single fixed jaws

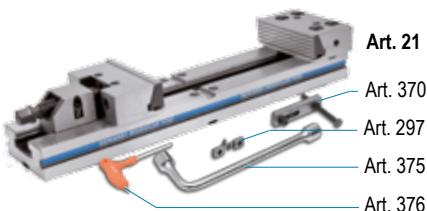
**AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !**

<b>Art. 313</b>		Cod. 4.31.31000	4.31.32000	4.31.33000	4.31.34000
Piastra magnetica parallela piana Magnetic parallel plates					
	H	23	33	43	53
	Cod.	1.21.21000	1.21.22000	1.21.23000	1.21.24000
<b>Art. 212</b>					
Ganascia mobile intermedia (da usare con Art. 313)					
Intermediate movable jaw (to be used with Art. 313)					
<b>Art. 217</b>		Cod. 2.21.71000	2.21.72000	2.21.73000	2.21.74000
Ganascia mobile prismatica Prismatic movable jaw					
<b>Art. 242G</b> <span style="color:red;">NEW!</span>		Cod. 1.24.2G100	1.24.2G200	1.24.2G300	1.24.2G400
Piastra ganascia con inserti GRIP Jaw plate with GRIP inserts					
<b>Art. 271</b>		Cod. 2.27.11000	2.27.12000	2.27.13000	2.27.14000
Supporto di serraggio con cilindro idraulico Clamping support with hydraulic cylinder					
Art. 271		Cod. 4.39.11000	4.39.12000	4.39.13000	4.39.14000
Art. 403					
Art. 393					
<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

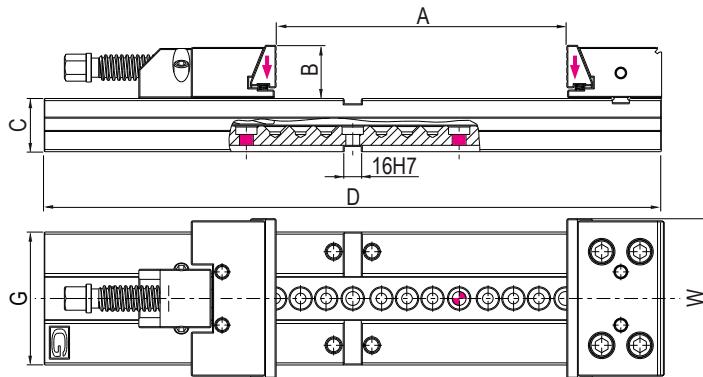
Servocomandi oleopneumatici (completi di 1 cilindro e supporto) per serraggi multipli **contemporanei o indipendenti**, da 2 a 6 morsi. Vedi da pag. 4.36 a 4.47

**Dotazione standard:**

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


**Standard equipment:**

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



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

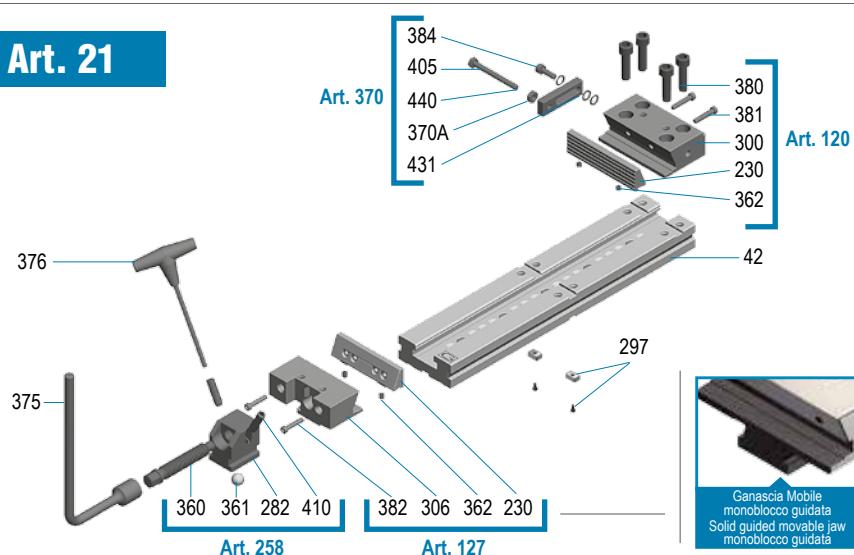


5 40 kN					6 40 kN							
500	600	700	800	900	500	600	700	800	900	1000	1100	
200								300				
65								80				
70								78				
805	905	1005	1105	1205	900	1000	1100	1200	1300	1400	1500	
170								195				
64	69	74	79	84	95	105	115	125	135	145	155	
2.21.55000	2.21.56000	2.21.57000	2.21.58000	2.21.59000	2.21.65000	2.21.66000	2.21.67000	2.21.68000	2.21.69000	2.21.61000	2.21.61100	

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

4.31.35000 <b>Art. 313</b>		4.31.36000
53		68
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 4.36 to 4.47

**Art. 21**

**Art. | Pag.**
**42** 2.30

**230** 4.9

**248** 4.9

**282** 4.32

**297** 4.31

**300** 4.25

**306** 4.25

**360** 4.32

**361** 4.32

**362** 4.24

**370A** 4.31

**Art. | Pag.**
**375** 4.31

**376** 4.31

**380** 4.24

**382** 4.24

**383** 4.24

**384** 4.24

**405** 4.31

**410** 4.32

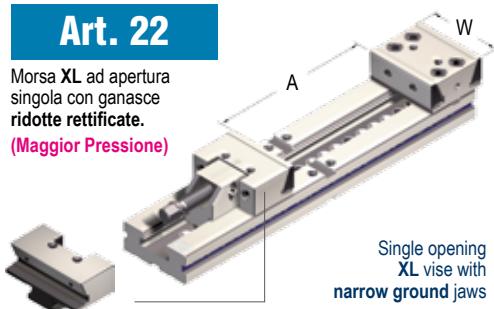
**431** 4.24

**440** 4.24

**-** -



Tipo (grandezza) morsa / Vise (type) size	kN	1	2	3	4				
		16 kN	25 kN	30 kN					
Apertura massima / Maximum spread	A	290	320	360	460	400	500	600	700
<b>Art. 22</b>	W	75	95	125			145		
Morsa XL ad apertura singola con ganasce ridotte rettificate. <i>(Maggior Pressione)</i>	B	30	40	50			60		
	C	35	40	50			58		
	D	460	520	580	680	666	766	866	966
	G	75	95	125			145		
	kg	9.4	15.8	29.8	32.8	44.8	49.8	54.8	59.8
	Cod.	3.21.00220	3.22.10220	3.23.20220	3.23.30220	3.24.20220	3.24.30220	3.24.40220	3.24.50220
<b>Monoblocco - Solid</b>									

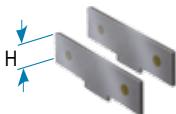


Single opening  
XL vise with  
narrow ground jaws  
*(Higher Pressure)*

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

#### Art. 313R

Piastra magnetica parallela piana  
Magnetic parallel plates



Cod.	4.31.3R100	4.31.3R200	4.31.3R300	4.31.3R400
H	23	33	43	53

#### Art. 213

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



Cod.	1.21.31000	1.21.32000	1.21.33000	1.21.34000
H				

#### Art. 218

Ganasca mobile prismatica  
Prismatic movable jaw



Cod.	2.21.81000	2.21.82000	2.21.83000	2.21.84000
H				

#### Art. 243G NEW!

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



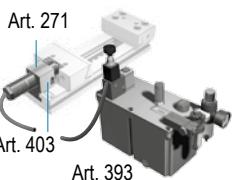
Cod.	1.24.3G100	1.24.3G200	1.24.3G300	1.24.3G400
H				

#### 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				

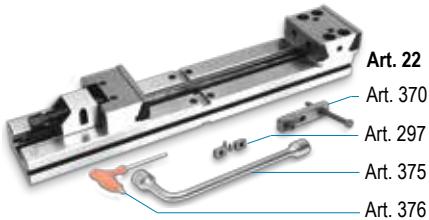


Cod.	4.39.21000	4.39.22000	4.39.23000	4.39.24000
H				

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

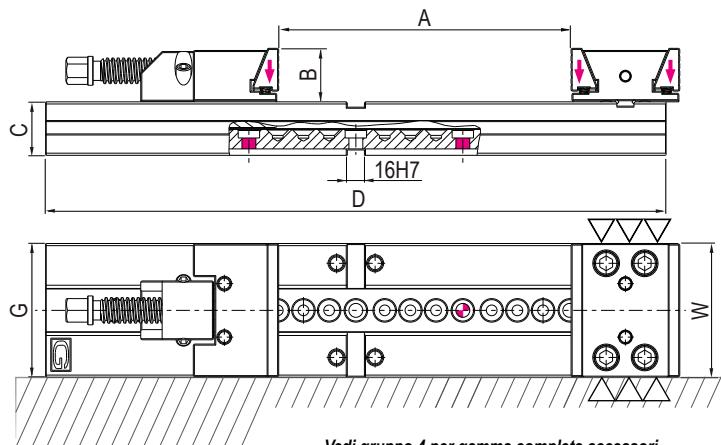
#### Dotazione standard:

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



#### Standard equipment:

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



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



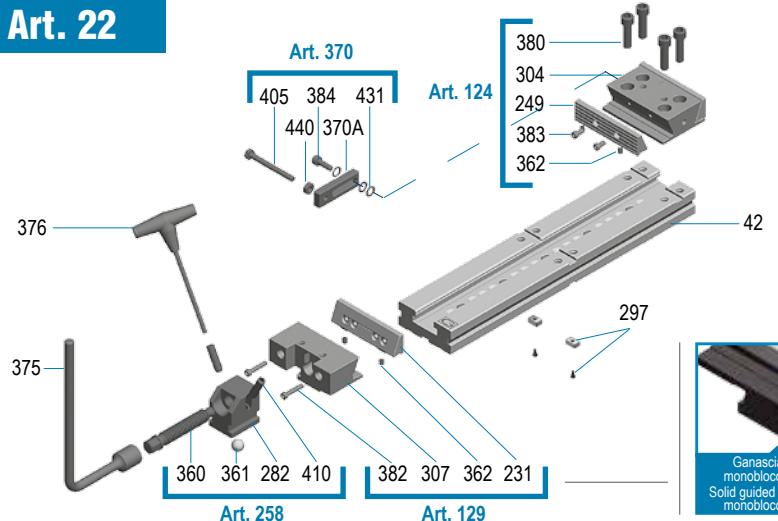
5 40 kN					6 40 kN							
500	600	700	800	900	500	600	700	800	900	1000	1100	
170								195				
	65							80				
	70							78				
805	905	1005	1105	1205	900	1000	1100	1200	1300	1400	1500	
		170						195				
82.5	88.5	96.5	103.5	110.5	116	129	139	149	159	169	179	
3.25.20220	3.25.30220	3.25.40220	3.25.50220	3.25.60220	3.26.20220	3.26.30220	3.26.40220	3.26.50220	3.26.60220	3.26.70220	3.26.80220	

### UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

4.31.3R500 <b>Art. 313R</b>	A blue modular vise component with a handle and a base plate.	4.31.3R600
53		68
1.21.35000 <b>Art. 213</b>	A blue modular vise component with a handle and a base plate.	1.21.36000
2.21.85000 <b>Art. 218</b>	A blue modular vise component with a handle and a base plate.	2.21.86000
1.24.3G500 <b>Art. 243G</b>	A blue modular vise component with a handle and a base plate.	1.24.3G600
2.27.15000 <b>Art. 271</b>	A blue modular vise component with a handle and a base plate.	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 4.36 to 4.47

### Art. 22



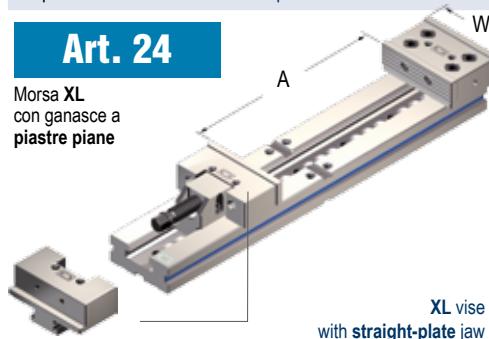
Art.	Pag.	Art.	Pag.
42	2.30	375	4.31
231	4.9	376	4.31
249	4.9	380	4.24
282	4.32	382	4.24
297	4.31	383	4.24
304	4.25	384	4.24
307	4.25	405	4.31
360	4.32	410	4.32
361	4.32	431	4.24
362	4.24	440	4.24
370A	4.31	-	-



Tipo (grandezza) morsa / Vise (type) size	kN	1	2	3	4				
		16 kN	25 kN	30 kN	30 kN				
Apertura massima / Maximum spread	A	290	320	360	460	400	500	600	700
<b>Art. 24</b>	W	100	125	150			175		
Morsa XL con ganasce a piastre piane	B	30	40	50			60		
	C	35	40	50			58		
	D	460	520	580	680	666	766	866	966
	G	75	95	125			145		
	kg	9.4	15.8	29.8	32.8	44.8	49.8	54.8	59.8
	Cod.	2.24.12900	2.24.23200	2.24.33600	2.24.34600	2.24.44000	2.24.45000	2.24.46000	2.24.47000

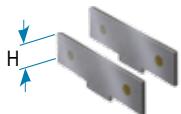
**Art. 24**

Morsa XL con ganasce a piastre piane



XL vise with straight-plate jaw

Monoblocco - Solid

**AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !****Art. 313**Piastre magnetiche parallele piane  
Magnetic parallel plates

Cod. 4.31.31000 4.31.32000 4.31.33000 4.31.34000

H 23 33 43 53

**Art. 212**Ganasca mobile intermedia  
(da usare con Art. 313)  
Intermediate movable jaw (to be used with Art. 313)

Cod. 1.21.21000 1.21.22000 1.21.23000 1.21.24000

**Art. 246**Piastra piana in acciaio lavorabile  
Machinable steel straight jaw plate

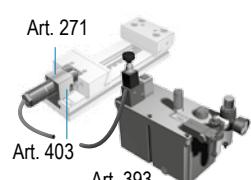
Cod. 1.65.16200 1.65.26200 1.65.36200 1.65.46200

**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



Cod. 4.39.11000 4.39.12000 4.39.13000 4.39.14000

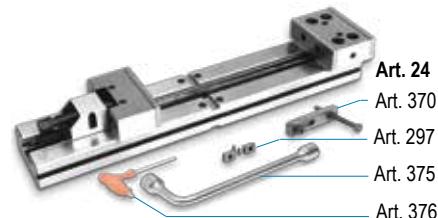


Cod. 4.39.21000 4.39.22000 4.39.23000 4.39.24000

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

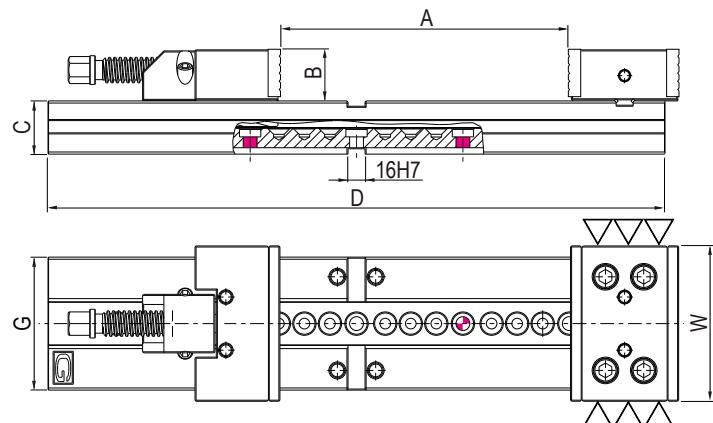
## Dotazione standard:

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



## Standard equipment:

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



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

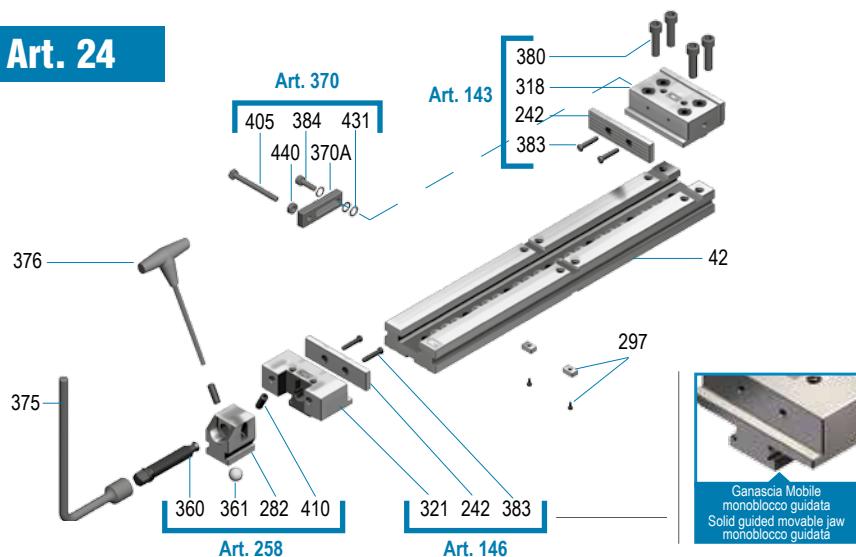


5 40 kN					6 40 kN							
500	600	700	800	900	500	600	700	800	900	1000	1100	
200								300				
65								80				
70								78				
805	905	1005	1105	1205	900	1000	1100	1200	1300	1400	1500	
170								195				
82.5	88.5	96.5	103.5	110.5	116	129	139	149	159	169	179	
2.24.55000	2.24.56000	2.24.57000	2.24.58000	2.24.59000	2.24.65000	2.24.66000	2.24.67000	2.24.68000	2.24.69000	2.24.61000	2.24.61100	

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

4.31.35000 <b>Art. 313</b> 53		4.31.36000 68
1.21.25000 <b>Art. 212</b>		1.21.26000
1.65.56200 <b>Art. 246</b>		1.65.66200
1.24.6G500 <b>Art. 246G</b>		1.24.6G600
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 4.36 to 4.47

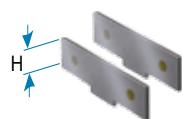
**Art. 24**


Art.	Pag.	Art.	Pag.
42	2.30	380	4.24
242	4.11	383	4.24
282	4.32	384	4.24
297	4.31	405	4.31
318	4.26	410	4.32
321	4.26	431	4.24
360	4.32	440	4.24
361	4.32	-	-
370A	4.31	-	-
375	4.31	-	-
376	4.31	-	-



2

Tipo (grandezza) morsa / Vise (type) size	kN	1	2	3	4			
		16 kN	25 kN	30 kN				
Apertura massima / Maximum spread	A	290	320	360	460	400	500	600
	W	75	95	125			145	
Art. 25	B	30	40	50			60	
Morsa XL con ganasce a piastre GRIP a forte serraggio (ridotte rettificate)	C	35	40	50			58	
	D	460	520	580	680	666	766	866
	G	75	95	125			145	
XL vise with GRIP jaw-plates for strongest clamping (narrow width ground)	kg	9.4	15.8	29.8	32.8	44.8	49.8	54.8
Monoblocco - Solid	Cod.	2.25.12900	2.25.23200	2.25.33600	2.25.34600	2.25.44000	2.25.45000	2.25.46000
								2.25.47000

**AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !**
**Art. 313R**
 Piastra magnetica parallela piana  
 Magnetic parallel plates


Cod.	4.31.3R100	4.31.3R200	4.31.3R300	4.11.3R400
H	23	33	43	53

**Art. 218**
 Ganascia mobile prismatica  
 Prismatic movable jaw


Cod.	2.21.81000	2.21.82000	2.21.83000	2.21.84000

**Art. 247**
 Piastra piana in acciaio lavorabile  
 Machinable steel straight jaw plate


Cod.	1.24.71000	1.24.72000	1.24.73000	1.24.74000

**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. 271

 Art. 403  
 Art. 393
**Art. 391**

CNC / CNC

Cod.	4.39.11000	4.39.12000	4.39.13000	4.39.14000

**Art. 392**

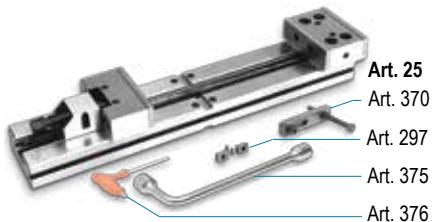
Pneumatico / Air control

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 morsi. Vedi da pag. 4.36 a 4.47

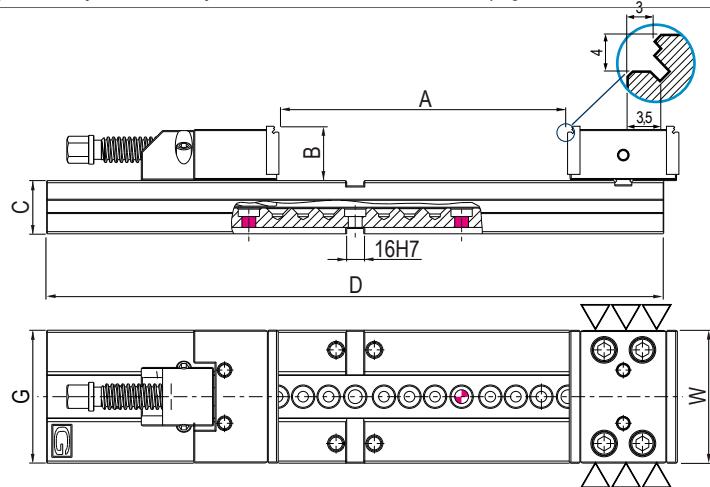
## Dotazione standard:

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



## Standard equipment:

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


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

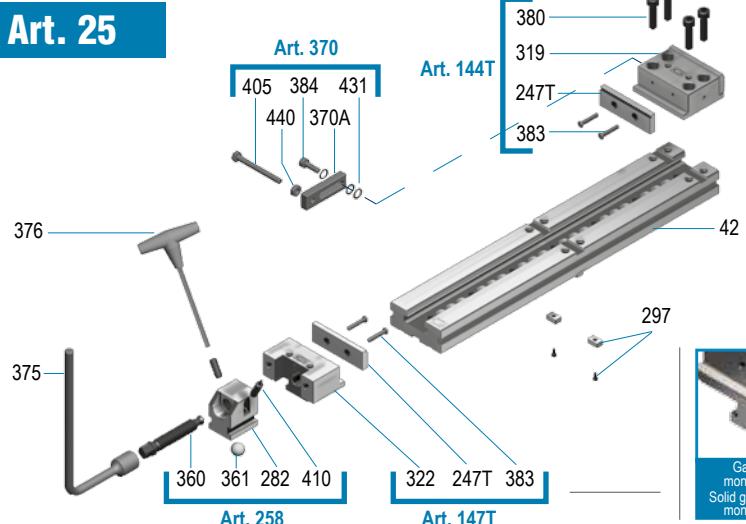


5 40 kN					6 40 kN							
500	600	700	800	900	500	600	700	800	900	1000	1100	
170								195				
	65							80				
	70							78				
805	905	1005	1105	1205	900	1000	1100	1200	1300	1400	1500	
		170						195				
82.5	88.5	96.5	103.5	110.5	116	129	139	149	159	169	179	
2.25.55000	2.25.56000	2.25.57000	2.25.58000	2.25.59000	2.25.65000	2.25.66000	2.25.67000	2.25.68000	2.25.69000	2.25.61000	2.25.61100	

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

Art. 313	4.31.3R500		4.31.3R600
	53		68
Art. 218	2.21.85000		2.21.86000
Art. 247	1.24.75000		1.24.76000
Art. 247G	1.24.7G500		1.24.7G600
Art. 271	2.27.15000		2.27.16000
Art. 391	4.39.15000		4.39.16000
Art. 392	4.39.25000		4.39.26000

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

**Art. 25**

**Art. | Pag.**

42 2.30

247T 4.11

282 4.32

297 4.31

319 4.26

322 4.26

360 4.32

361 4.32

370A 4.31

375 4.31

376 4.31

**Art. | Pag.**

380 4.24

383 4.24

384 4.24

405 4.31

410 4.32

431 4.24

440 4.24

- -

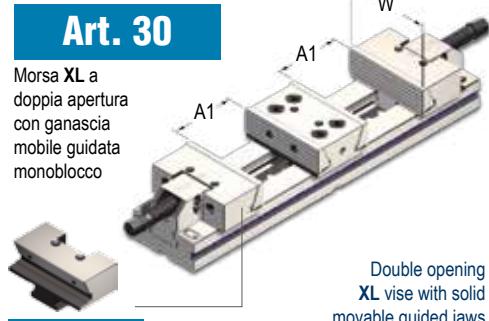
- -

- -

- -



Tipo (grandezza) morsa / Vise (type) size	kN	1	2	3	4
		16 kN	25 kN	30 kN	30 kN
Apertura massima / Maximum spread	A1	2 x 90	2 x 100	2 x 110	2 x 120
	W	100	125	150	175
	B	30	40	50	60
	C	35	40	50	58
	D	460	520	580	680
	G	75	95	125	145
	kg	14.5	21	39	43
	Cod.	3.31.00600	3.32.10600	3.33.20600	3.33.30600
					3.34.20600
					3.34.30600
					3.34.40600
					3.34.50600

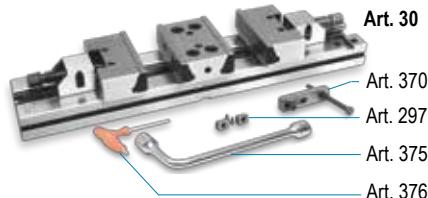

**AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !**

<b>Art. 313</b>		Cod. 4.31.31000	4.31.32000	4.31.33000	4.31.34000
Piastra magnetica parallela piana Magnetic parallel plates					
	H	23	33	43	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. 313)					
Intermediate movable jaw (to be used with Art. 313)					
	H				
<b>Art. 217</b>		Cod. 2.21.71000	2.21.72000	2.21.73000	2.21.74000
Ganascia mobile prismatica Prismatic movable jaw					
<b>Art. 242G</b> <span style="color:red;">NEW!</span>		Cod. 1.24.2G100	1.24.2G200	1.24.2G300	1.24.2G400
Piastra piana con inserti GRIP Straight jaw plate with GRIP inserts					
<b>Art. 271</b>		Cod. 2.27.11000	2.27.12000	2.27.13000	2.27.14000
Supporto di serraggio con cilindro idraulico Clamping support with hydraulic cylinder					
<b>Art. 391</b> CNC / CNC		Cod. 4.39.11000	4.39.12000	4.39.13000	4.39.14000
<b>Art. 392</b> Pneumatico / Air control		Cod. 4.39.21000	4.39.22000	4.39.23000	4.39.24000

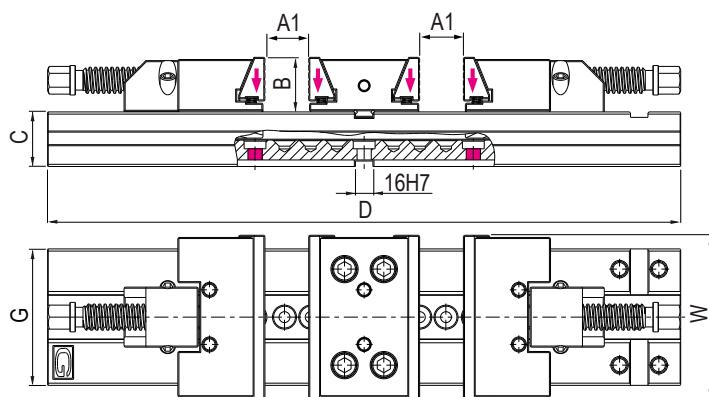
Servocomandi oleopneumatici (completi di 1 cilindro e supporto) per serraggi multipli **contemporanei o indipendenti**, da 2 a 6 morsi. Vedi da pag. 4.36 a 4.47

**Dotazione standard:**

- 2 arresti laterali 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): € 85,00


**Standard equipment:**

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



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

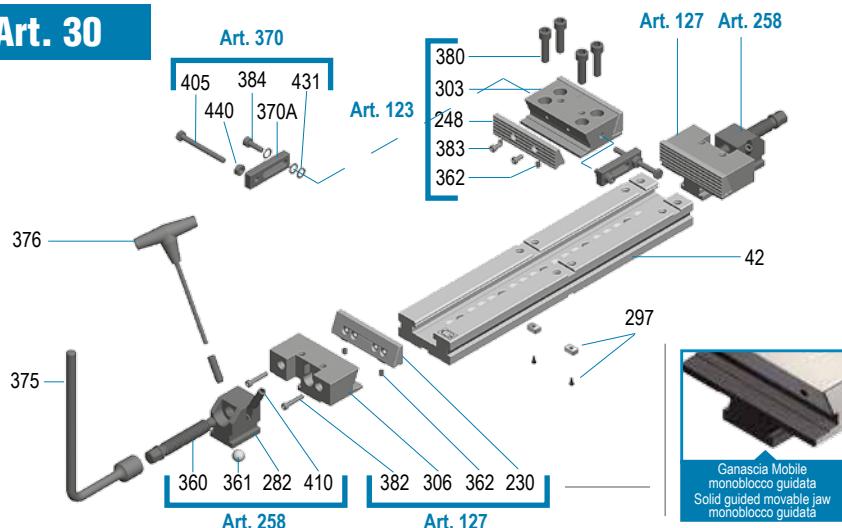


5 40 kN					6 40 kN							
2 x 150	2 x 200	2 x 250	2 x 300	2 x 350	2 x 160	2 x 210	2 x 260	2 x 310	2 x 360	2 x 410	2 x 460	
200								300				
65								80				
70								78				
805	905	1005	1105	1205	900	1000	1100	1200	1300	1400	1500	
170								195				
96	102	108	114	120	155	163	171	179	187	195	213	
3.35.20600	3.35.30600	3.35.40600	3.35.50600	3.35.60600	3.36.20600	3.36.30600	3.36.40600	3.36.50600	3.36.60600	3.36.70600	3.36.80600	

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

4.31.35000 <b>Art. 313</b> 53	A blue modular vise component with a handle and mounting holes.	4.31.36000
1.21.25000 <b>Art. 212</b>	A blue modular vise component with a handle and mounting holes.	1.21.26000
2.21.75000 <b>Art. 217</b>	A blue modular vise component with a handle and mounting holes.	2.21.76000
1.24.2G500 <b>Art. 242G</b>	A blue modular vise component with a handle and mounting holes.	1.24.2G600
2.27.15000 <b>Art. 271</b>	A blue modular vise component with a handle and mounting holes.	2.27.16000
4.39.15000 <b>Art. 391</b>		4.39.16000
4.39.25000 <b>Art. 392</b>		4.39.26000

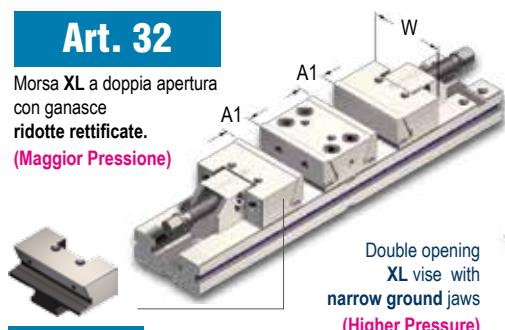
 Pneumo-hydraulic servo units (complete of hydraulic cylinder + support) for multiple clamping **simultaneous** or **independent**, from 2 to 6 vises. See from page 4.36 to 4.47

**Art. 30**


Art.	Pag.	Art.	Pag.
42	2.30	375	4.31
230	4.9	376	4.31
248	4.9	380	4.24
282	4.32	382	4.24
297	4.31	383	4.24
303	4.25	384	4.24
306	4.25	405	4.31
360	4.32	410	4.32
361	4.32	431	4.24
362	4.24	440	4.24
370A	4.31	-	-



Tipo (grandezza) morsa / Vise (type) size	kN	1	2	3	4
		16 kN	25 kN	30 kN	30 kN
Apertura massima / Maximum spread	A1	2 x 90	2 x 100	2 x 110	2 x 120
<b>Art. 32</b>		W	75	95	125
Morsa XL a doppia apertura con ganasce ridotte rettificate. (Maggior Pressione)		B	30	40	50
		C	35	40	50
		D	460	520	580
		G	75	95	125
		kg	13.5	19.5	36
		Cod.	3.31.00720	3.32.10720	3.33.20720
					3.33.30720
					3.34.20720
					3.34.30720
					3.34.40720
					3.34.50720
Monoblocco - Solid					



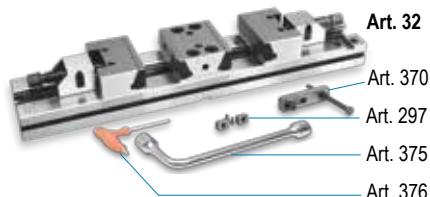
## AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

<b>Art. 313R</b>	Piastre magnetiche parallele piane Magnetic parallel plates		Cod. 4.31.3R100 4.31.3R200 4.31.3R300	4.31.3R400
			H 23 33 43	53
<b>Art. 213</b>	Ganasca mobile intermedia (da usare con Art. 313R) Intermediate movable jaw (to be used with Art. 313R)		Cod. 1.21.31000 1.21.32000 1.21.33000	1.21.34000
<b>Art. 218</b>	Ganasca mobile prismatica Prismatic movable jaw		Cod. 2.21.81000 2.21.82000 2.21.83000	2.21.84000
<b>Art. 243G</b> <span style="color:red;">NEW!</span>	Piastra ganasca ridotta con inserti GRIP Narrow width jaw plate with GRIP inserts		Cod. 1.24.3G100 1.24.3G200 1.24.3G300	1.24.3G400
<b>Art. 271</b>	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			Cod. 4.39.11000 4.39.12000 4.39.13000	4.39.14000
Art. 403				
Art. 393				
<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. 4.36 a 4.47

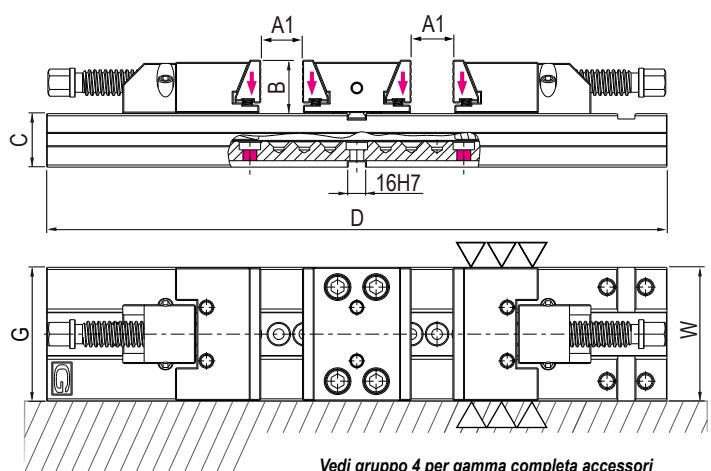
## Dotazione standard:

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



## Standard equipment:

- 2 workstops 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





5 40 kN					6 40 kN						
2 x 150	2 x 200	2 x 250	2 x 300	2 x 350	2 x 160	2 x 210	2 x 260	2 x 310	2 x 360	2 x 410	2 x 460
170								195			
	65							80			
	70							78			
805	905	1005	1105	1205	900	1000	1100	1200	1300	1400	1500
		170						195			
93	99	105	108	117	144	152	160	168	176	184	202
3.35.20720	3.35.30720	3.35.40720	3.35.50720	3.35.60720	3.36.20720	3.36.30720	3.36.40720	3.36.50720	3.36.60720	3.36.70720	3.36.80720

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

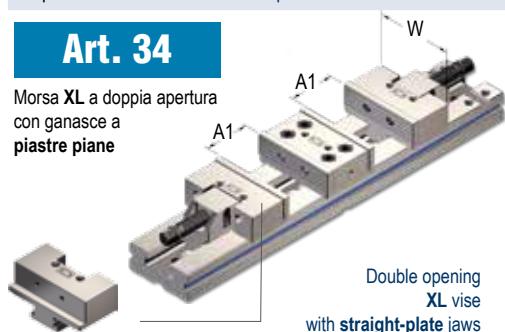
4.31.3R500 <b>Art. 313R</b>	A blue modular vise component with a central clamping mechanism and two side supports.	4.31.3R600
53		68
1.21.35000 <b>Art. 213</b>	A blue modular vise component with a central clamping mechanism and two side supports.	1.21.36000
2.21.85000 <b>Art. 218</b>	A blue modular vise component with a central clamping mechanism and two side supports.	2.21.86000
1.24.3G500 <b>Art. 243G</b>	A blue modular vise component with a central clamping mechanism and two side supports.	1.24.3G600
2.27.15000 <b>Art. 271</b>	A blue modular vise component with a central clamping mechanism and two side supports.	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 4.36 to 4.47

Art. 32	Art.	Pag.	Art.	Pag.
	42	2.30	375	4.31
	231	4.9	376	4.31
	249	4.9	380	4.24
	282	4.32	382	4.24
	297	4.31	383	4.24
	304	4.25	384	4.24
	307	4.25	405	4.31
	360	4.32	410	4.32
	361	4.32	431	4.24
	362	4.24	440	4.24
	370A	4.31	-	-



Tipo (grandezza) morsa / Vise (type) size	kN	1	2	3	4			
		16 kN	25 kN	30 kN	30 kN			
Apertura massima / Maximum spread	A1	2 x 90	2 x 100	2 x 110	2 x 160	2 x 120	2 x 170	2 x 220
<b>Art. 34</b>	W	100	125	150			175	
Morsa XL a doppia apertura con ganasce a piastre piane	B	30	40	50			60	
	C	35	40	50			58	
	D	460	520	580	680	666	766	866
	G	75	95	125			145	
	kg	9.4	15.8	29.8	32.8	44.8	49.8	54.8
	Cod.	2.34.19000	2.34.21000	2.34.31100	2.34.31600	2.34.41200	2.34.41700	2.34.42200
								2.34.42700
<b>Monoblocco - Solid</b>								

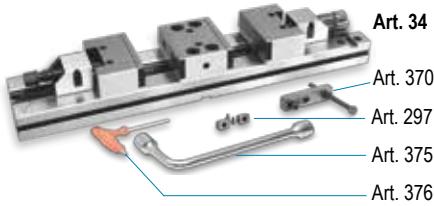

**AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !**

<b>Art. 313</b>		Cod. 4.31.31000	4.31.32000	4.31.33000	4.31.34000
Piastre magnetiche parallele piane Magnetic parallel plates	H	23	33	43	53
<b>Art. 212</b>		Cod. 1.21.21000	1.21.22000	1.21.23000	1.21.24000
Ganasca mobile intermedia (da usare con Art. 313) Intermediate movable jaw (to be used with Art. 313)	H				
<b>Art. 246</b>		Cod. 1.65.16200	1.65.26200	1.65.36200	1.65.46200
Piastra piana in acciaio lavorabile Machinable steel straight jaw plate					
<b>Art. 246G</b> <span style="color:red;">NEW!</span>		Cod. 1.24.6G100	1.24.6G200	1.24.6G300	1.24.6G400
Piastra piana con inserti GRIP Straight jaw plate with GRIP inserts					
<b>Art. 271</b>		Cod. 2.27.11000	2.27.12000	2.27.13000	2.27.14000
Supporto di serraggio con cilindro idraulico Clamping support with hydraulic cylinder					
Art. 271	<b>Art. 391</b>	Cod. 4.39.11000	4.39.12000	4.39.13000	4.39.14000
Art. 403	CNC / CNC				
Art. 393	<b>Art. 392</b>	Cod. 4.39.21000	4.39.22000	4.39.23000	4.39.24000
	Pneumatico / Air control				

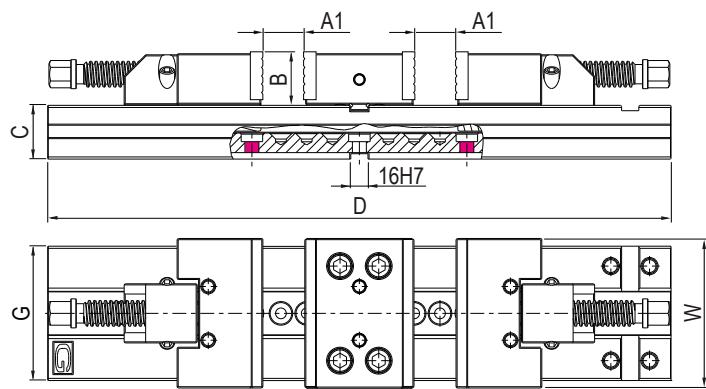
Servocomandi oleopneumatici (completi di 1 cilindro e supporto) per serraggi multipli **contemporanei o indipendenti**, da 2 a 6 morsi. Vedi da pag. 4.36 a 4.47

**Dotazione standard:**

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


**Standard equipment:**

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



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



5 40 kN					6 40 kN							
2 x 150	2 x 200	2 x 250	2 x 300	2 x 350	2 x 160	2 x 210	2 x 260	2 x 310	2 x 360	2 x 410	2 x 460	
200								300				
65								80				
70								78				
805	905	1005	1105	1205	900	1000	1100	1200	1300	1400	1500	
170								195				
82.5	88.5	96.5	103.5	110.5	116	129	139	149	159	169	179	
2.34.51500	2.34.52000	2.34.52500	2.34.53000	2.34.53500	2.34.61600	2.34.62100	2.34.62600	2.34.63100	2.34.63600	2.34.64100	2.34.64600	

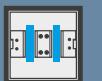
**UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !**

4.31.35000 <b>Art. 313</b> 53		4.31.36000 68
1.21.25000 <b>Art. 212</b>		1.21.26000
1.65.56200 <b>Art. 246</b>		1.65.66200
1.24.6G500 <b>Art. 246G</b>		1.24.6G600
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 4.36 to 4.47

Art. 34	Art. 370	Art. 143	Art. 146 Art. 258	Art.	Pag.	Art.	Pag.
	405 384 431 440 370A		383 242 380 318	42	2.30	380	4.24
	376			297	4.11	383	4.24
	375				4.32	384	4.24
					4.31	405	4.31
					4.26	318	4.26
					4.26	410	4.32
					4.26	431	4.24
					4.32	440	4.24
					4.32	361	4.32
					-	-	-
					-	370A	4.31
					-	375	4.31
					-	376	4.31

**Art. 34**  
**Art. 370**  
**Art. 143**  
**Art. 146 Art. 258**  
**Art. 258**  
**Art. 146**  
**Gancio Mobile monoblocco guidata Solid guided movable jaw monoblocco guidata**



Tipo (grandezza) morsa / Vise (type) size	(kN)	1	2	3	4					
		16 kN	25 kN	30 kN	30 kN					
Apertura massima / Maximum spread		A1	2 x 90	2 x 100	2 x 110	2 x 160	2 x 120	2 x 170	2 x 220	2 x 270
<b>Art. 35</b>		W	75	95	125			145		
Morsa XL a doppia apertura con piastre ganasce GRIP a forte serraggio (ridotte rettificate)		B	30	40	50			60		
		C	35	40	50			58		
		D	460	520	580	680	666	766	866	966
		G	75	95	125			145		
		kg	9.4	15.8	29.8	32.8	44.8	49.8	54.8	59.8
		Cod.	2.35.19000	2.35.21000	2.35.31100	2.35.31600	2.35.41200	2.35.41700	2.35.42200	2.35.42700
<b>Monoblocco - Solid</b>										

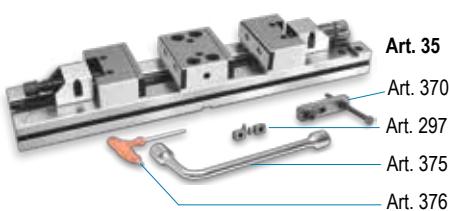
### AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

<b>Art. 313R</b>	Piastre magnetiche parallele piane Magnetic parallel plates		Cod. 4.31.3R100 4.31.3R200 4.31.3R300	4.11.3R400
		H	23 33 43	53
<b>Art. 218</b>	Ganasca mobile prismatica Prismatic movable jaw		Cod. 2.21.81000 2.21.82000 2.21.83000	2.21.84000
<b>Art. 247</b>	Piastra piana in acciaio lavorabile Machinable steel straight jaw plate		Cod. 1.24.71000 1.24.72000 1.24.73000	1.24.74000
<b>Art. 247G</b> <span style="color:red;">NEW!</span>	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
<b>Art. 271</b>	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		<b>Art. 391</b> CNC / CNC	Cod. 4.39.11000 4.39.12000 4.39.13000	4.39.14000
Art. 403		<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. 4.36 a 4.47

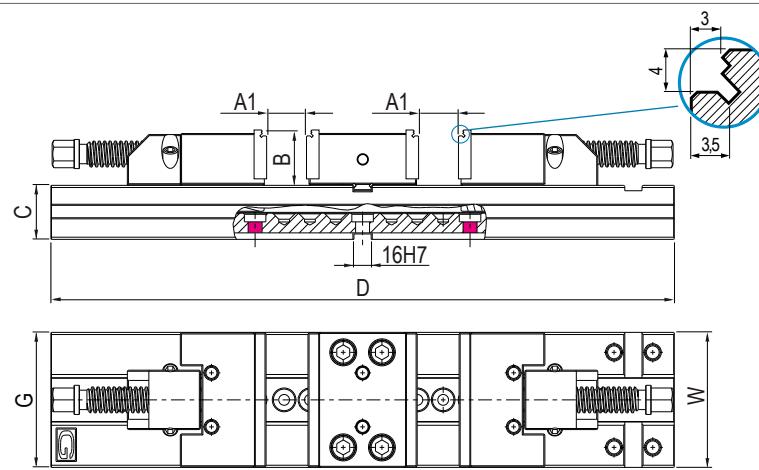
#### Dotazione standard:

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



#### Standard equipment:

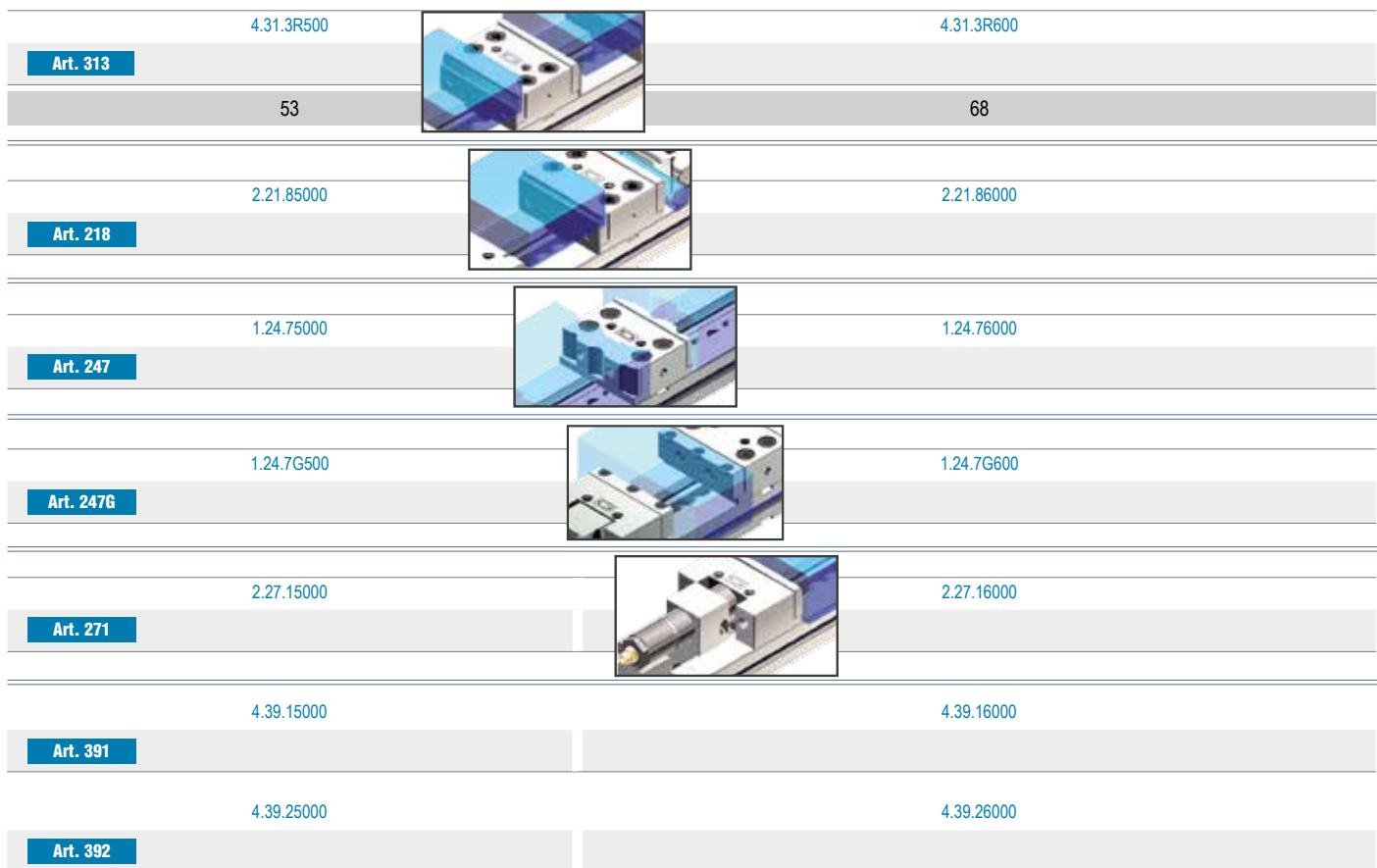
- 2 workstops Art. 370
- 1 pair of positioning key-nuts Art. 297  
(Standard for 16 mm slot. Other dimensions available on request without price change)
- 1 box wrench Art. 375 ■ 1 T-wrench Art. 376



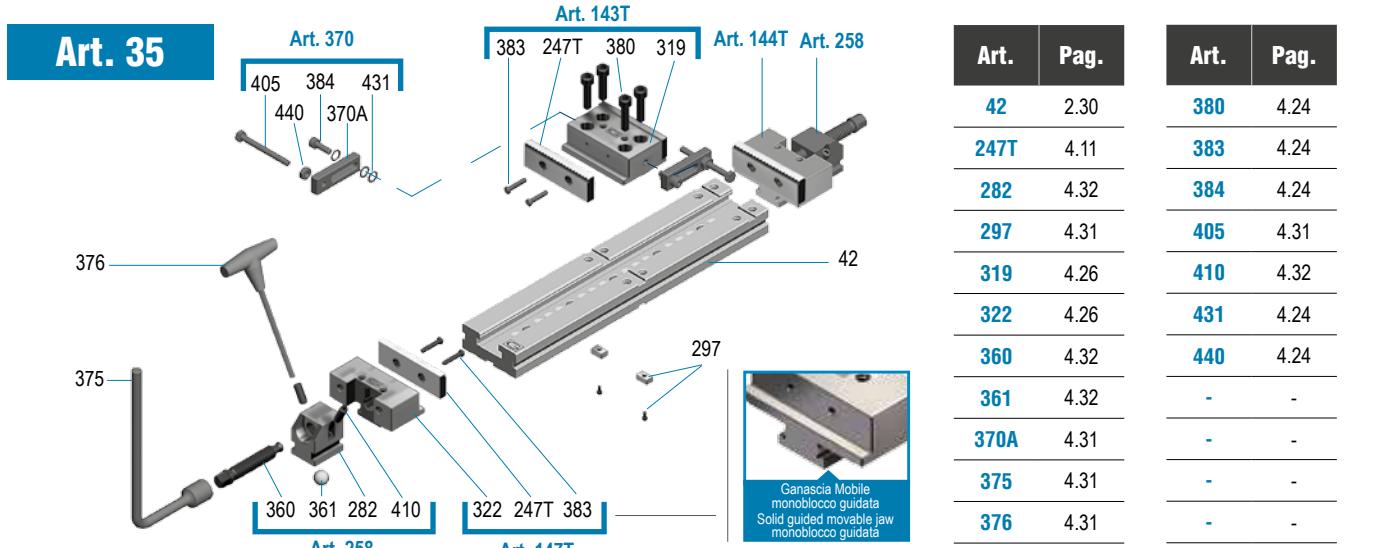
Vedi gruppo 4 per gamma completa accessori  
See group 4 for complete range of accessories

2

**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 4.36 to 4.47



# MORSE XL CON PIASTRE GANASCE A CAMBIO RAPIDO XL VISES WITH QUICK MANUAL CHANGE JAW PLATES

**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**

## 1 ALTISSIMA RIPETIBILITÀ DI POSIZIONAMENTO

con particolari perfettamente in squadra

## 1 HIGHEST REPOSITIONING ACCURACY

with perfect square workpieces.

## 2 RICONFIGURAZIONE RAPIDISSIMA

grazie alla piastra ganascia intercambiabile manualmente

## 2 GREAT SAVINGS IN VISE RESETTING TIMES

thanks to the manual interchangeable quick jaw plate

## 3 EFFETTO DISCENDENTE

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

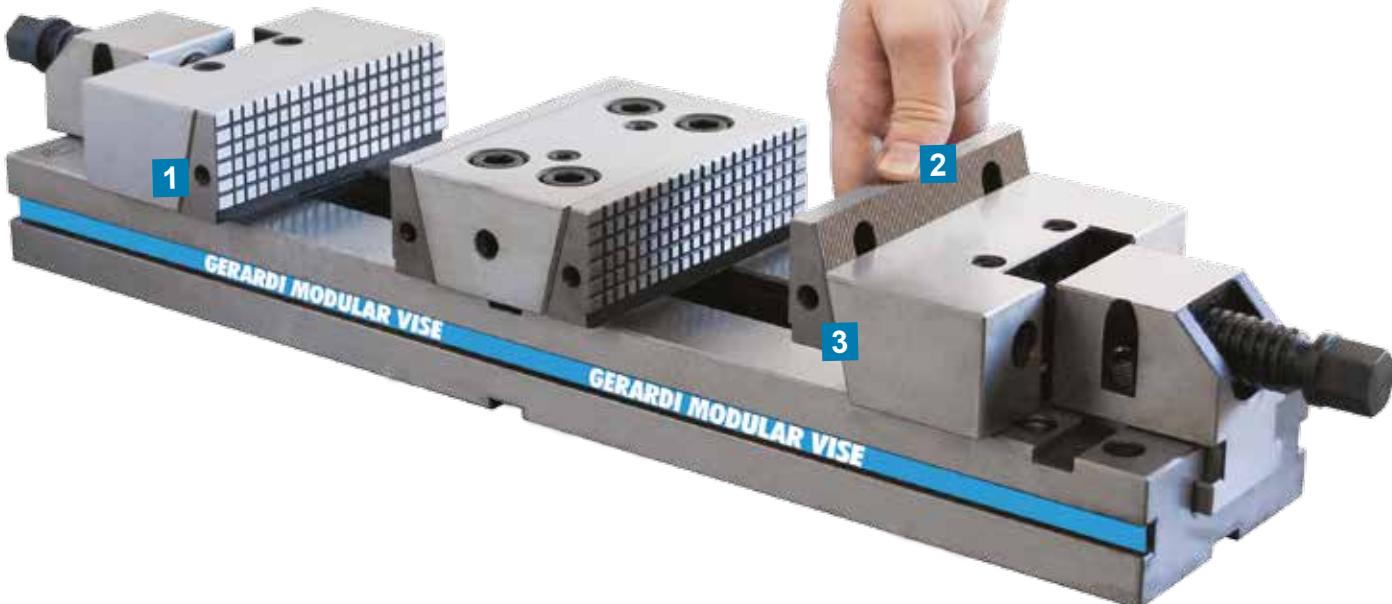
## 3 PULL DOWN ACTION

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

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

**Vise with quick manual change jaw plates (Comb system)**

**Art. 30A**



## CARATTERISTICHE E VANTAGGI

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

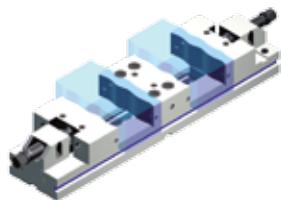
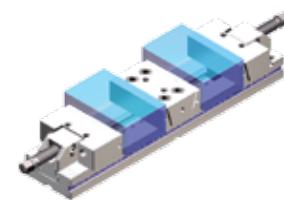
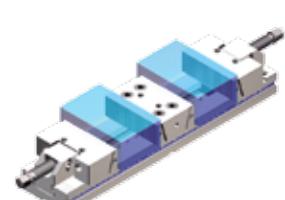
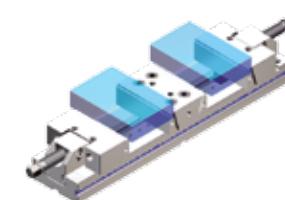
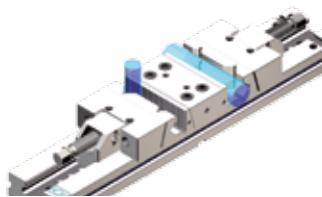
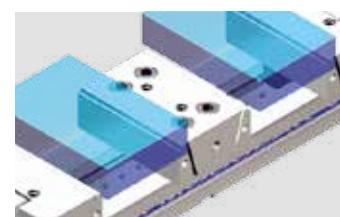
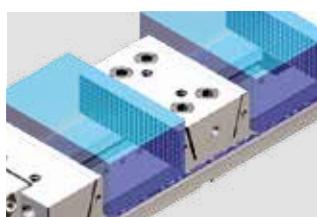
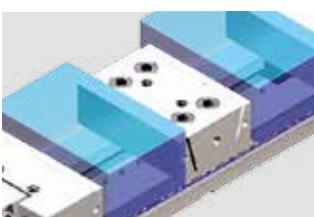
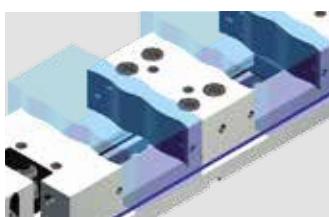
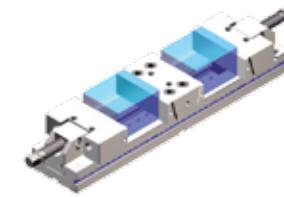
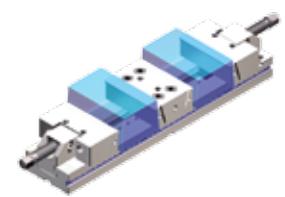
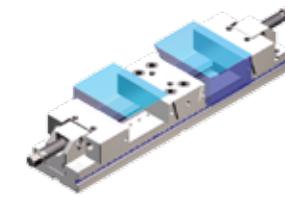
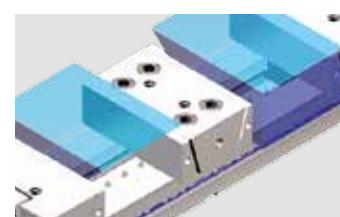
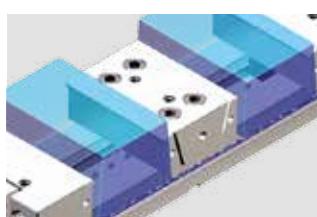
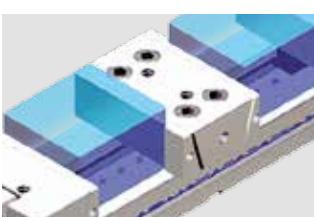
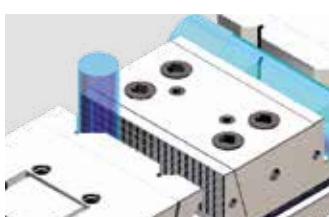
*Si rimanda a quanto esposto a pag. 1.4 e 1.5 (morse serie STANDARD)*

## 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

**Art. 230B**Dolce  
Soft**Art. 230C**Liscia  
Smooth**Art. 230D**Zigrinata  
Serrated**Art. 230E**Con gradino  
With step**Art. 230F**Prismatica  
Prismatic**Art. 230G**Con arresto a 90°  
With 90° stop**Art. 230H**Bombata  
Round**Art. 230M**Angolo di 30° o 45°  
30° or 45° angle

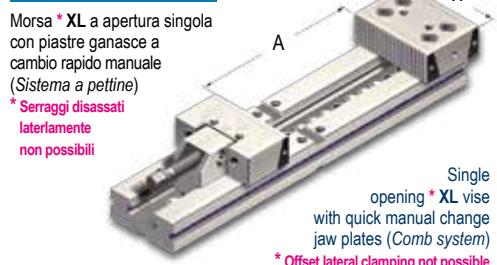
### PORTAPIASTRE / THE RACK

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

Vedi Pag. 4.18 - See Page.4.18



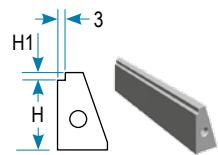
Tipo (grandezza) morsa / Vise (type) size	kN	1	2	3	4			
		16 kN	25 kN	30 kN				
Apertura massima / Maximum spread	A	290	320	360	460	400	500	600
	W	96	121	146			171	
<b>Art. 20A</b>	B	28	38	48			58	
Morsa *XL a apertura singola con piastre ganasce a cambio rapido manuale (Sistema a pettine)	C	35	40	50			58	
* Serraggi disassati lateralmente non possibili	D	460	520	580	680	666	766	866
Single opening *XL vise with quick manual change jaw plates (Comb system)	G	75	95	125			145	
* Offset lateral clamping not possible	kg	6.8	12.9	25.5	29	37	42	47
	Cod.	2.20.A1290	2.20.A2320	2.20.A3360	2.20.A3460	2.20.A4400	2.20.A4500	2.20.A4600
								2.20.A4700



## AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

**Art. 230E**

Piastra ganascia intercambiabile  
Interchangeable jaw plate



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

**Art. 212**

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

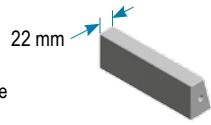
Intermediate movable jaw (to be used with Art. 230E)



Cod.	1.21.21000	1.21.22000	1.21.23000	1.21.24000

**Art. 230B**

Piastra ganascia intercambiabile dolce  
Soft interchangeable jaw plate



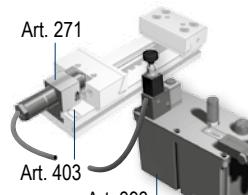
Cod.	4.23.0B101	4.23.0B201	4.23.0B301	4.23.0B401

**Art. 230F**

Piastra ganascia intercambiabile prismatica  
Prismatic interchangeable jaw plate



Cod.	4.23.0F101	4.23.0F201	4.23.0F301	4.23.0F401

**Art. 391**

CNC / CNC

**Art. 392**

Pneumatico / Air control

Cod.	4.39.11000	4.39.12000	4.39.13000	4.39.14000

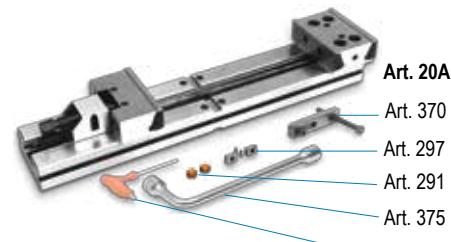
  

Cod.	4.39.21000	4.39.22000	4.39.23000	4.39.24000

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

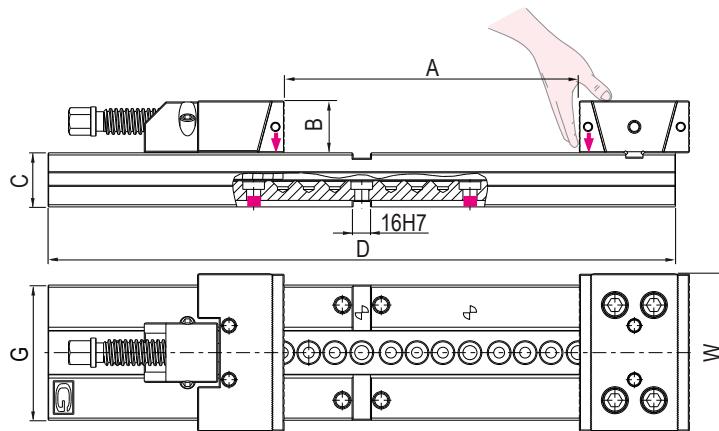
## Dotazione standard:

- 1 arresto laterale Art. 370
- 1 coppia di tasselli di posizionamento Art. 297  
(Standard per cava da 16 mm; altre dimensioni a richiesta senza variazione di prezzo)
- 2 tappi Art. 291 ■ 1 chiave a pipa Art. 375 ■ 1 chiave a "T" Art. 376



## 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



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

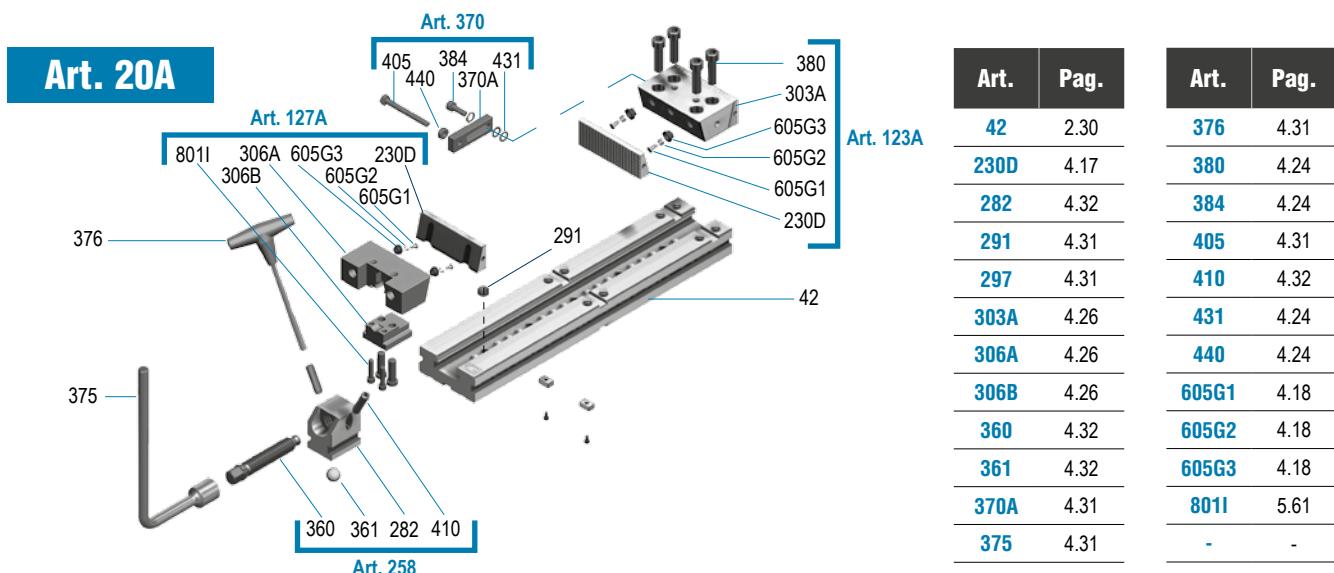


5 40 kN					6 40 kN							
500	600	700	800	900	500	600	700	800	900	1000	1100	
196					296							
63					78							
70					78							
805	905	1005	1105	1205	900	1000	1100	1200	1300	1400	1500	
170					195							
64	69	74	79	84	95	105	115	125	135	145	155	
2.20.A5500	2.20.A5600	2.20.A5700	2.20.A5800	2.20.A5900	2.20.A6500	2.20.A6600	2.20.A6700	2.20.A6800	2.20.A6900	2.20.A6100	2.20.A6110	

### UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

4.23.0E501	A blue modular vise component with a height H of 53 and a base height H1 of 10.	4.23.0E601
<b>Art. 230E</b>		
H	53	68
H1	10	10
1.21.25000	A blue modular vise component with a height H of 53 and a base height H1 of 10.	1.21.26000
<b>Art. 212</b>		
4.23.0B501	A blue modular vise component with a height H of 53 and a base height H1 of 10.	4.23.0B601
<b>Art. 230B</b>		
4.23.0F501	A blue modular vise component with a height H of 53 and a base height H1 of 10.	4.23.0F601
<b>Art. 230F</b>		
4.39.15000		4.39.16000
<b>Art. 391</b>		
4.39.25000		4.39.26000
<b>Art. 392</b>		

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

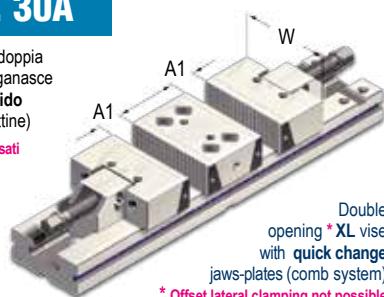




Tipo (grandezza) morsa / Vise (type) size	kN	1	2	3	4
		16 kN	25 kN	30 kN	30 kN
Apertura massima / Maximum spread	A1	2 x 90	2 x 100	2 x 110	2 x 120
	W	96	121	146	171
	B	28	38	48	58
	C	35	40	50	58
	D	460	520	580	680
	G	75	95	125	145
	kg	6.8	12.9	25.5	52
	Cod.	2.30.A190	2.30.A2100	2.30.A3110	2.30.A3160
				2.30.A4120	2.30.A4170
				2.30.A4220	2.30.A4270

**Art. 30A**

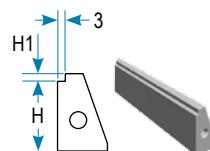
Morsa \*XL a doppia apertura con ganasce a cambio rapido (sistema a pettine)  
\* Serraggi disassati lateralmente non possibili



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

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

Piastra ganascia intercambiabile  
Interchangeable jaw plate



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

**Art. 212**

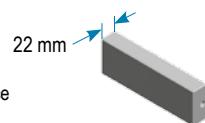
Ganasca mobile intermedia  
(da usare con Art. 230E)  
Intermediate movable jaw (to be used with Art. 230E)



Cod.	1.21.21000	1.21.22000	1.21.23000	1.21.24000

**Art. 230B**

Piastra ganascia intercambiabile dolce  
Soft interchangeable jaw plate



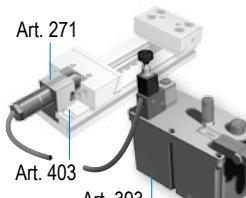
Cod.	4.23.0B101	4.23.0B201	4.23.0B301	4.23.0B401

**Art. 230F**

Piastra ganascia intercambiabile prismatica  
Prismatic interchangeable jaw plate



Cod.	4.23.0F101	4.23.0F201	4.23.0F301	4.23.0F401

**Art. 391**

CNC / CNC

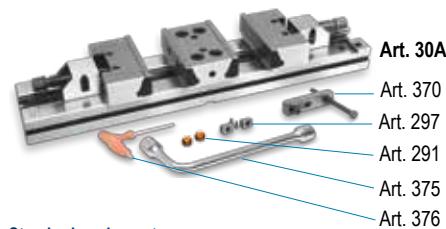
**Art. 392**

Pneumatico / Air control

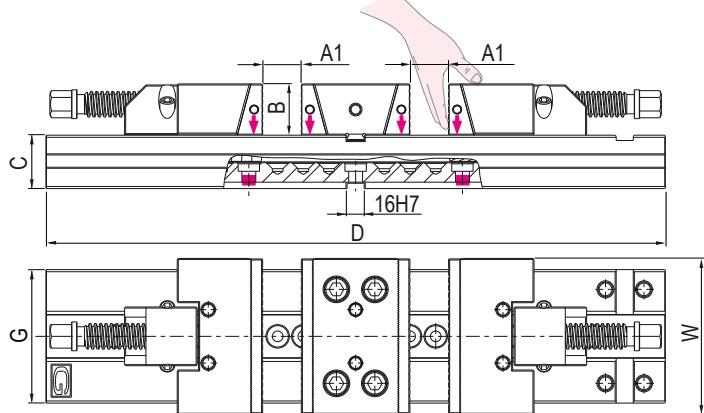
Servocomandi oleopneumatici (completi di 1 cilindro e supporto) per serraggi multipli contemporanei o indipendenti, da 2 a 6 morsi. Vedi da pag. 4.36 a 4.47

**Dotazione standard:**

- 2 arresti laterali 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

**Standard equipment:**

- 2 workstops 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



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

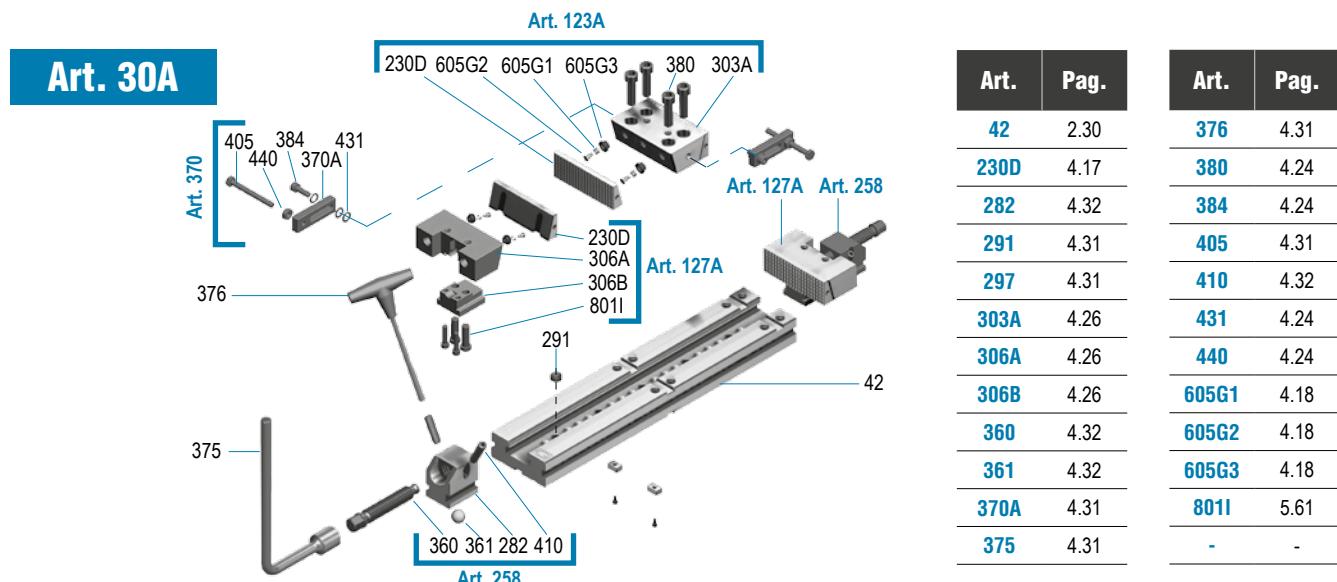


5 40 kN					6 40 kN							
2 x 150	2 x 200	2 x 250	2 x 300	2 x 350	2 x 160	2 x 210	2 x 260	2 x 310	2 x 360	2 x 410	2 x 460	
196					296							
	63					78						
	70					78						
805	905	1005	1105	1205	900	1000	1100	1200	1300	1400	1500	
		170						195				
64	69	74	79	84	95	105	115	125	135	145	155	
2.30.A5150	2.30.A5200	2.30.A5250	2.30.A5300	2.30.A5350	2.30.A6160	2.30.A6210	2.30.A6260	2.30.A6310	2.30.A6360	2.30.A6410	2.30.A6460	

### UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

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

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



Tipo (grandezza) morsa / Vise (type) size

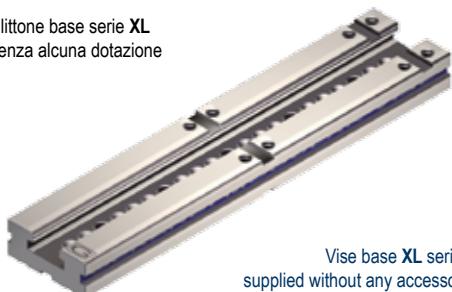
1

2

3

4

## Art. 42

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

kg	6.6	10.7	20.7	24.7	30.2	34.8	39.3	43.8
Cod.	1.80.11460	1.80.21520	1.80.31580	1.80.31680	1.80.41666	1.80.41766	1.80.41866	1.80.41966

Versione normale: Cave da 16 mm (H7)

Versione opzionale: Fori rettificati e calibrati con tolleranza F7

## Art. 42Z

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

kg	6.4	10.5	20.5	24.5	29.9	34.5	39	43.5
Cod.	2.42.Z1460	2.42.Z2520	2.42.Z3580	2.42.Z3680	2.42.Z4666	2.42.Z4766	2.42.Z4866	2.42.Z4966

Versione normale: Cave da 16 mm (H7)

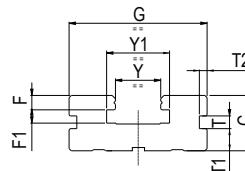
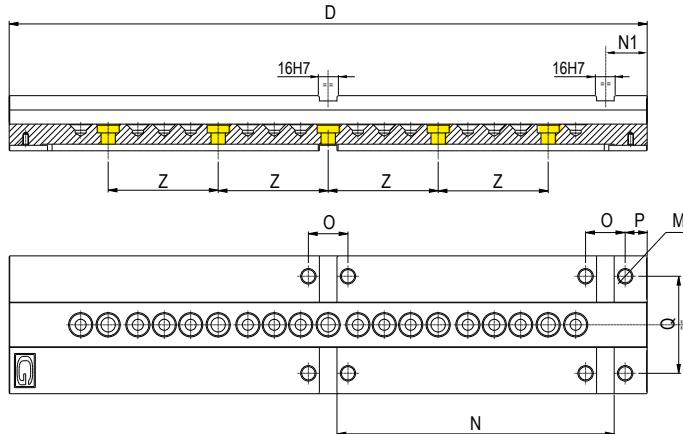
Versione opzionale: Fori rettificati e calibrati con tolleranza F7

## Tolleranza / Tolerance

- 0,02	C	35	40	50			38		
	D	450	520	580	680	666	766	866	966
	F	10	12	13				15	
	F1	10	10	12				18	
	G	75	95	125				145	
	Y	21	28	41				51	
	Y1	31	41	57				70	
	M	M10	M12	M14				M16	
	N	195	225	252	302	293	343	393	443
	N1	35	35	38				40	
	O	32	32	36				36	
	P	19	19	20				22	
	Q	50	62	88				100	
	T	9,5	9,5	11,5				11,5	
	T1	15	15	20				20	
	T2	5	5	7				7	
	Z	100	100	100				100	

## Art. 42

Slittone base serie XL / Vise base XL series



## Dettaglio foro per vite TCEI / TCEI screw hole details

Type	1	2	3	4	5	6
X	4,5	5,5	8	8	17	17
Ø Y	6,5	8,5	13	13	17	17
Ø K	10,5	13,5	19	19	26	26

5

6

2

64	69	74	79	84	95	105	115	125	135	145	155
1.80.51805	1.80.51905	1.80.51005	1.80.51105	1.80.51205	1.80.61900	1.80.61000	1.80.61100	1.80.61200	1.80.61300	1.80.61400	1.80.61500

Normal version: 16 mm slots (H7)

Optional version: Ground calibrated holes F7 tolerance

60	65	70	75	80	91	101	111	121	131	141	151
2.42.Z5805	2.42.Z5905	2.42.Z5005	2.42.Z5105	2.42.Z5205	2.42.Z6900	2.42.Z6100	2.42.Z6110	2.42.Z6120	2.42.Z6130	2.42.Z6140	2.42.Z6150

Normal version: 16 mm slots (H7)

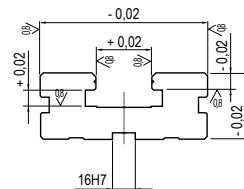
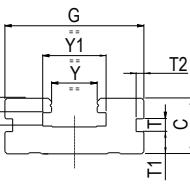
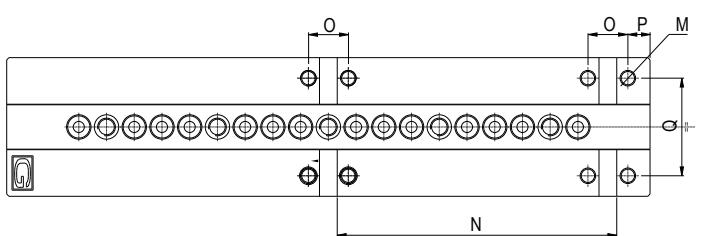
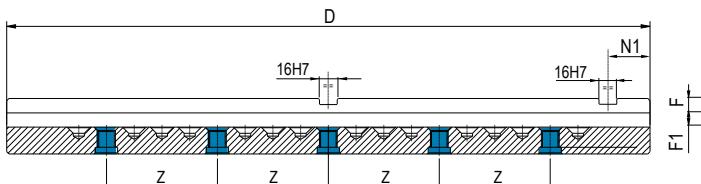
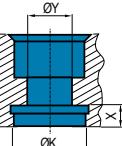
Optional version: Ground calibrated holes F7 tolerance

805	905	1005	1105	1205	900	1000	1100	1200	1300	1400	1500
20					20						
18					18						
170					195						
61					71						
80					90						
M20					M20						
357,5	407,5	457,5	507,5	557,5	405	455	505	555	605	655	707
45					45						
44					44						
23					23						
120					133						
17,5					17,5						
26					26						
10					10						
100					100						

**Art. 42Z**

Slittone base serie Zero Point / Vise base Zero Point series

Tolleranze generiche per morse XL / XL vise generic tolerances

**Dettaglio foro per Zero Point / Zero Point hole details**

Type	1	2	3	4	5	6
X	M16	M16	M16	M16	M16	M16

Ø K 20



# DIAGRAMMI SERRAGGIO MECCANICO CON CHIAVE DINAMOMETRICA

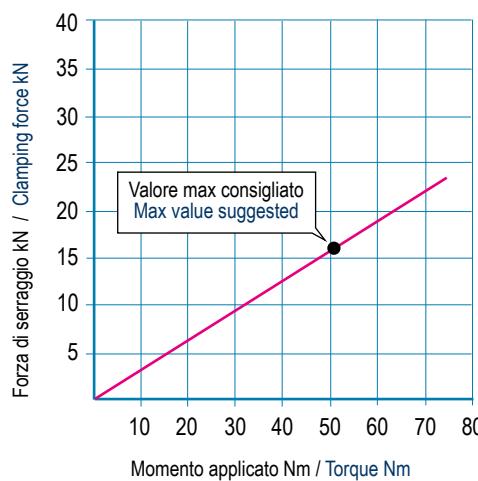
## DIAGRAMS MECHANICAL CLAMPING WITH TORQUE WRENCH

2



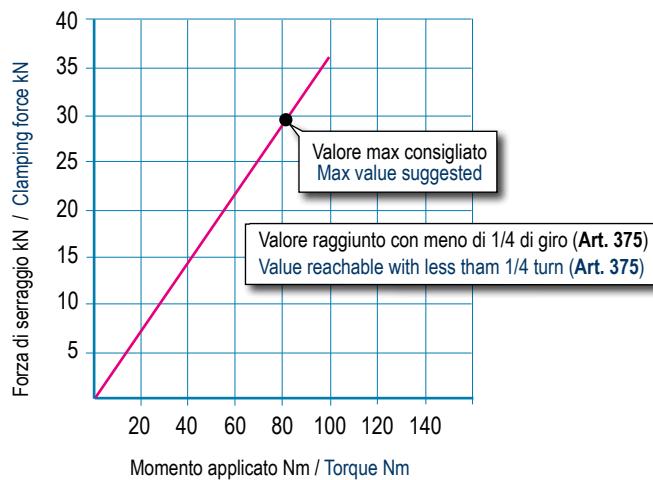
### MORSE MODULARI XL TIPO XL MODULAR VISES TYPE 1

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



### MORSE MODULARI XL TIPO XL MODULAR VISES TYPE 3-4

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



NB: Alcuni fattori, come la lubrificazione, lo staffaggio, gli attriti ed altro, possono modificare i valori indicati fino a  $\pm 10\%$ .

Per un corretto utilizzo non superare i valori indicati nel grafico

### 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

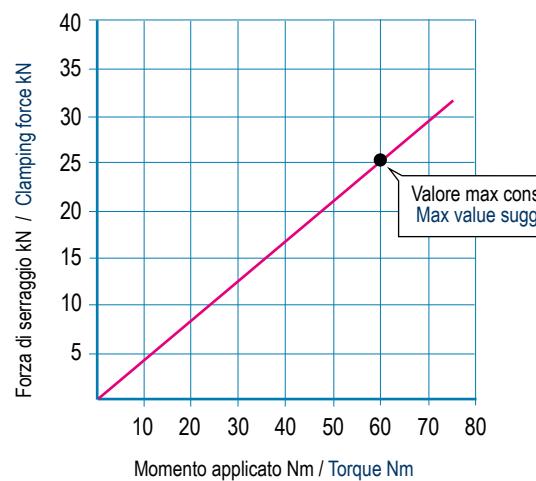
### MECHANICAL CLAMPING DEVICES

(**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

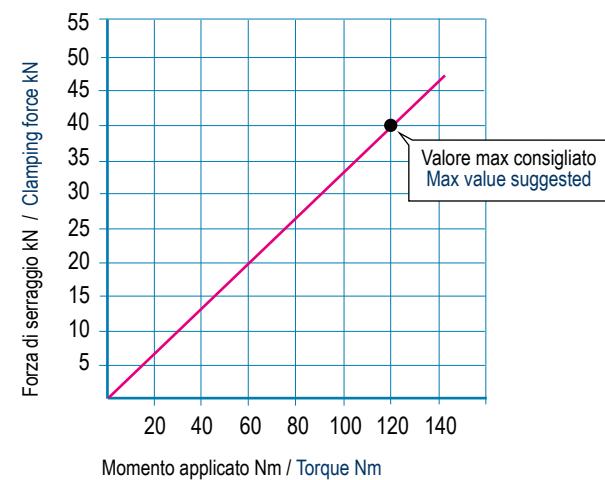
### MORSE MODULARI XL TIPO XL MODULAR VISES TYPE 2

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



### MORSE MODULARI XL TIPO XL MODULAR VISES TYPE 5-6

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



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.