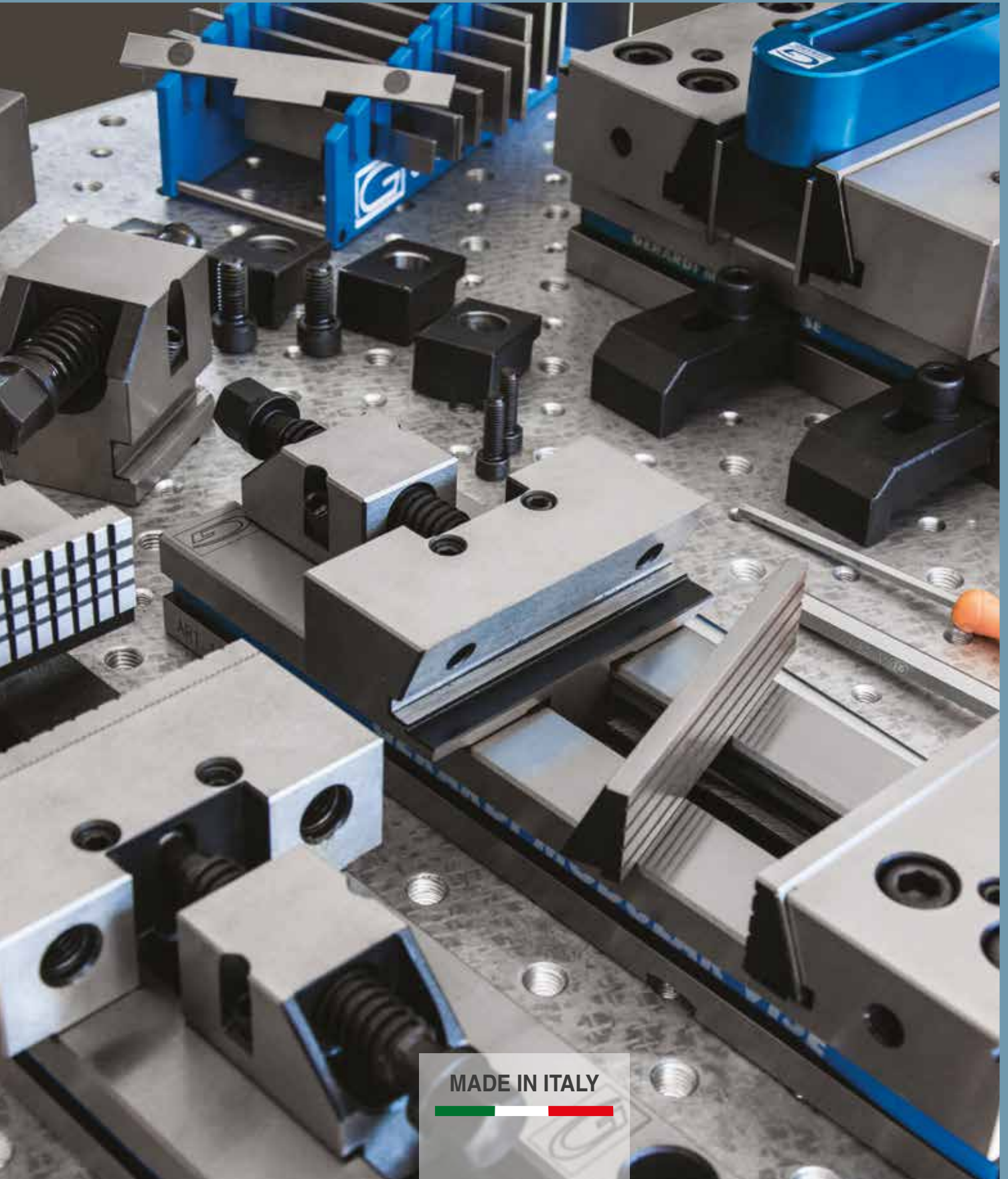


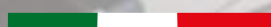


**RICAMBI E ACCESSORI per Std & StandardFLEX  
SPARE PARTS and ACCESSORIES for Std & StandardFLEX**



4

MADE IN ITALY



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

**NEW!**



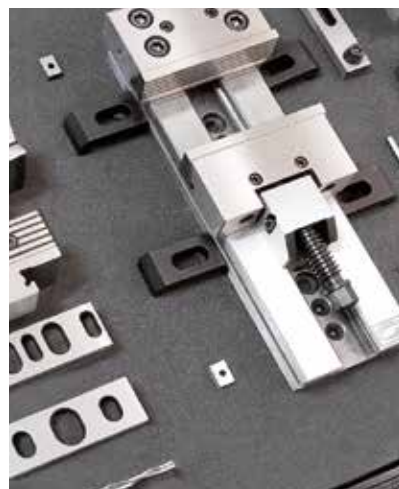
**Art. 981**

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

Cod.	0.98.10000
€	<b>1.719</b>

**All'Interno - Inside:**

	Art.132		Art.313		Art.298
	Art.133		Art.314		Art.370
	Art.138		Art.271		Art.375
	Art.147		Art.283		Art.376
	Art.212		Art.285	-	-
	Art.217		Art.297	-	-



4

## SIMBOLOGIA DATI TECNICI TECHNICAL DATA ICONS

GANASCE JAWS		Fissa Fixed		Mobile Movable		Intermedia Intermediate		Fissa con piastra singola Fixed with single plate		Fissa con piastra doppia Fixed with double plate		Ganasce sovrapponibili Stack Type Jaws	
	PIASTRE GANASCE JAW PLATES		Discendente Pull down		Discendente + inserti GRIP Pull down + GRIP inserts		Lavorabile Machineable		Cambio rapido manuale Quick manual change		GRIP GRIP		Inserti GRIP Inserti GRIP
POSSIBILITÀ DI POSSIBILITY OF			Serraggio di 1 particolare Clamping only 1 piece		Serraggio di 2 particolari Clamping 2 pieces		Montaggio sul fianco o in serie Side mounting or gang operation		Posizionamento & cambio rapido Quick change & positioning		Cubi-morsa Vise tower		
	PAGINE PAGES		Accessori & Ricambi Accessories & Spare Parts		Istruzioni corretto utilizzo Instruction for a proper use		Diagrammi forze di serraggio Clamping force diagrams		Accessori idraulici Hydraulic accessories		Centraline idrauliche Hydraulic Power Units		Comando manuale Manual control
												Comando elettrico Solenoid control	

# RICAMBI e ACCESSORI

## SPARE PARTS, ACCESSORIES

Sicuramente uno dei punti di forza del sistema modulare **GERARDI** consiste nell'ampissima scelta di componentistica ed accessori nonché nel continuo investimento e sviluppo nei più avanzati concetti e soluzioni originali.

Il programma che viene presentato nelle pagine seguenti fa parte di un sistema modulare di bloccaggio fra i più ampi e completi a livello mondiale che permette realmente di trasformare in standard ciò che sembrerebbe essere speciale (oltre 1000 articoli moltiplicati per 6 grandezze diverse).

Il segreto di tutto ciò sta proprio nella modularità del sistema che consente (con l'aggiunta di alcuni componenti) una più ampia gamma di impieghi.

### ACCESSORI

Parallele, staffe, tasselli di posizionamento, arresto laterale, chiavi di bloccaggio, celle di carico.

One of the biggest point of strength of **GERARDI** modular system lies in the broadest assortment program of components and accessories and also in the continuous investment and development of the most advanced concepts and original solutions. The range of items shown in the following pages is part of a modular workholding system among the widest and complete in the world. So, any holding and clamping issue You ever have, You can solve it with Gerardi standard modular products.

The secret lies just in the modularity of the system which allows (choosing different components) a wider range of solutions.

### ACCESSORIES

Parallel plates, vise holding jaws, positioning key-nuts, workstop, wrenches, loading cells.

4



#### 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 HRC 60 ±2**. 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.



#### CARATTERISTICHE E VANTAGGI

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

Si rimanda a quanto esposto a pag. 1.2 e 1.3 (morse serie STD)

#### TECHNICAL FEATURES AND ADVANTAGES

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

see pages 1.2 and 1.3 (STD series vises)

#### 1 Art. 133

Prolunga per ganaschia fissa  
Extension for fixed jaw

#### 2 Art. 132

Prolunga per ganaschia mobile  
Extension for movable jaw

#### 3 Art. 212

Ganaschia mobile intermedia con doppio gradino  
Intermediate movable jaws with double step

#### 4 Art. 257

Gruppo di serraggio con mandrino a vite idraulica manuale  
Hydraulic hand screw spindle clamping device

#### 5 Art. 258

Gruppo di serraggio meccanico manuale  
Mechanical clamping device manual

#### 6 Art. 271

Ganaschia mobile intermedia con doppio gradino  
Clamping device with hydraulic cylinder for automatic applications

#### 7 Art. 131

Ganasce a squadra sovrapponibili per serraggio di particolari tondi in orizzontale  
Stack type jaws fixed or movable for round workpieces horizontal clamping

#### 8 Art. 138

Ganasce a squadra sovrapponibili fisse o mobili  
Square stack-type jaws fixed or movable



**9 Art. 150**

Ganasce a squadra sovrapponibili per serraggio di particolari tondi in **verticale**  
 Stack type jaws fixed or movable for round workpiece **vertical** clamping

**10 Art. 210**

Ganasce mobili guidate monoblocco per **pezzi tondi**  
 Solid guided movable jaws for **round workpieces**

**11 Art. 190 + 4 Art. 570**

Ganasce mobili guidate monoblocco **con puntali meccanici regolabili**  
 Solid guided movable jaws **with adjustable set screw**

**12 Art. 188**

Ganasce mobili guidate monoblocco **oleodinamiche**  
**Hydraulic control** solid guided movable jaws

**13 Art. 217**

Ganasce mobili guidate monoblocco **prismatiche**  
 (per serraggio pezzi piatti e tondi)  
 Solid guided movable **prismatic** jaws  
 (for plates & round workpieces clamping)

**14 Art. 146**

Ganasce mobili guidate monoblocco **con piastre piane**  
 Solid guided movable jaws **with straight plates**

**15 Art. 105**

Base girevole ( $0^\circ \pm 360^\circ$ ) utilizzabile per serraggi che necessitano movimenti di rotazione dell' attrezzatura sulla tavola indipendenti, permette di ottenere l' angolo desiderato velocemente e con ripetibilità centesimale.

Swivel base ( $0^\circ \pm 360^\circ$ ) is used for clamping which need rotation movements of the workholding fixture on the machine table, it allows to get quickly and with centesimal precision any angle.

**16 Art. 120**

Le ganasce fisse monoblocco consentono, una volta ruotate di  $180^\circ$ , il perfetto accoppiamento al gradino della ganascia prismatica mobile (Art. 217) ordinabile separatamente.

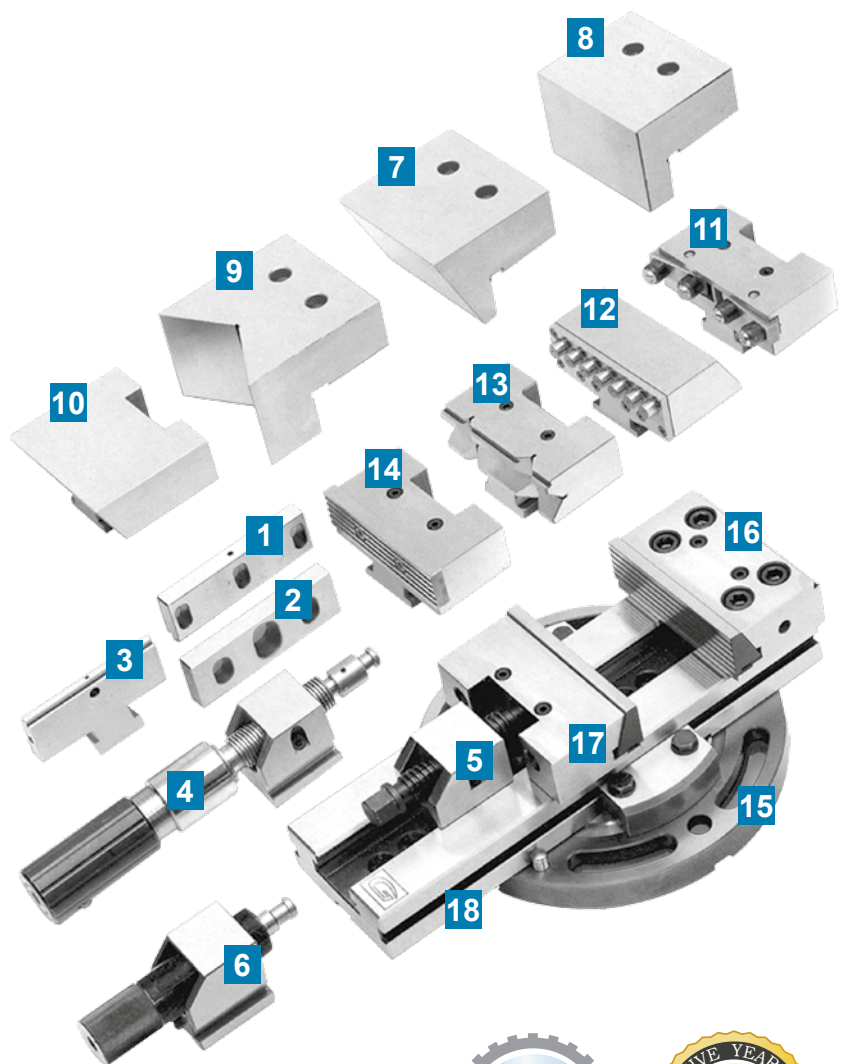
The solid standard fixed jaws with 5x5 mm back steps are matchable, if turned of  $180^\circ$ , to the prismatic movable jaw (Art.217) to be ordered separately.

**17 Art. 127**

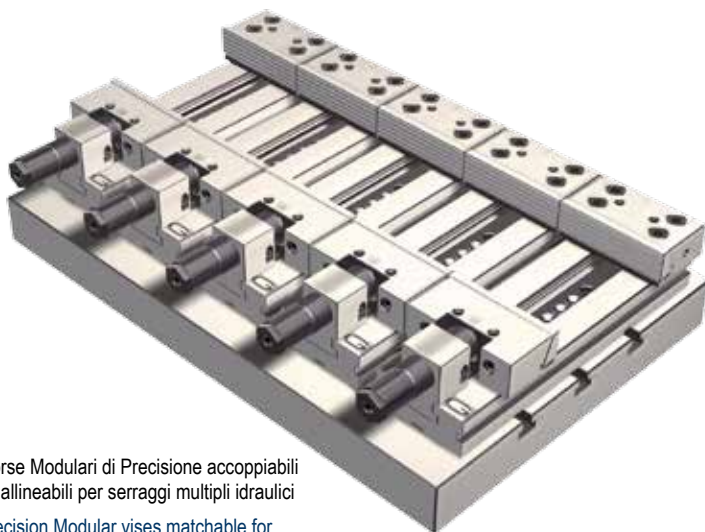
Ganascia mobili guidate monoblocco costruite con un angolo di spinta verso il basso.  
 Guided movable jaws built in one solid body with a pull down angle

**18 Art. 1 + Art.105**

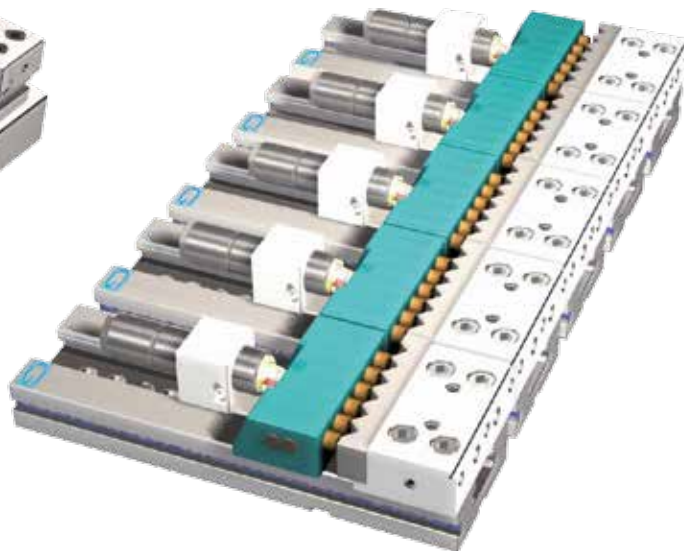
Morsa con base girevole  
 Vise with swivel base



## ESEMPI APPLICATIVI APPLICATION EXAMPLES

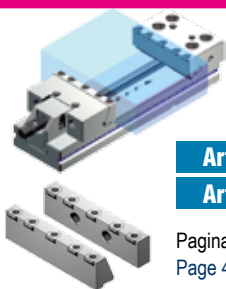


Morse Modulari di Precisione accoppiabili ed allineabili per serraggi multipli idraulici con ganasce speciali  
Precision Modular vises matchable for gang operations and hydraulic clamping with special jaws



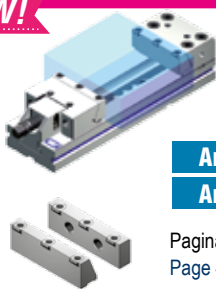
Morse Modulari di Precisione accoppiabili ed allineabili per serraggi multipli idraulici  
Precision Modular vises matchable for gang operations and hydraulic clamping

**NEW!**



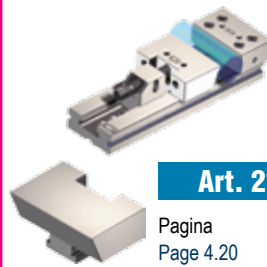
**Art. 242G**  
**Art. 246G**

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Page 4.12



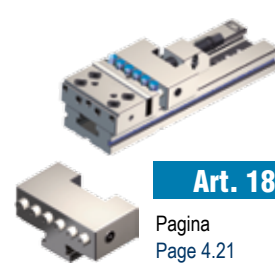
**Art. 243G**  
**Art. 247G**

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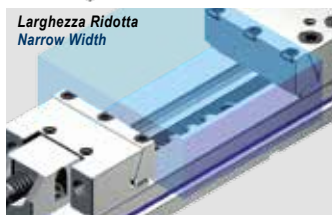
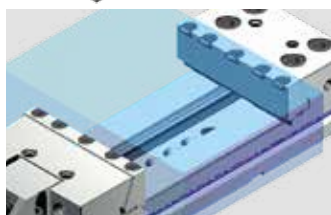
**Art. 210**

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**Art. 188**

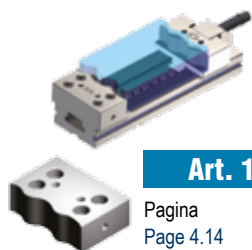
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*Larghezza Ridotta*  
*Narrow Width*

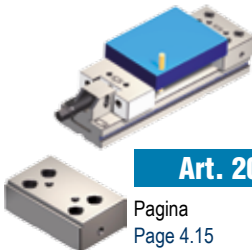


### NEW INSERT GRIP JAW PLATES



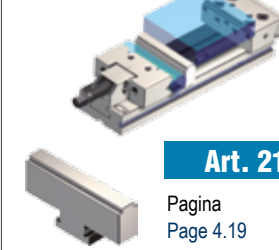
**Art. 160**

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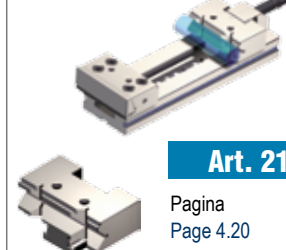
**Art. 200**

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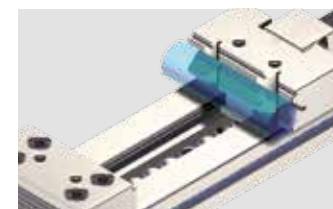
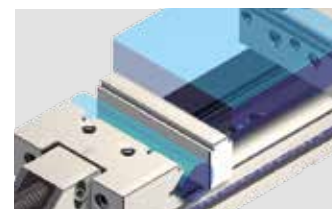
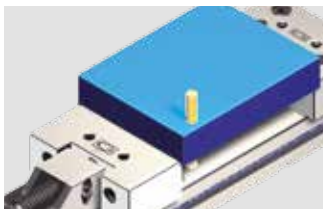
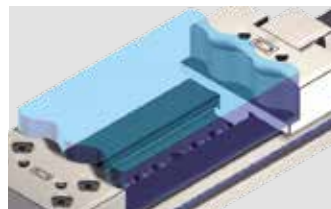
**Art. 212**

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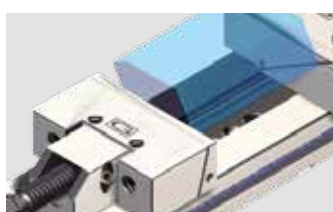
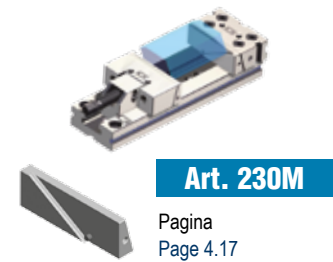
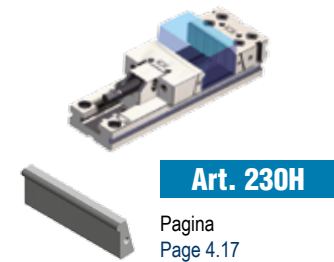
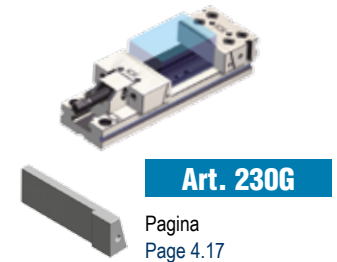
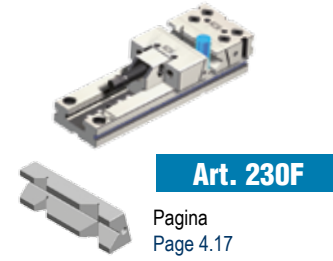
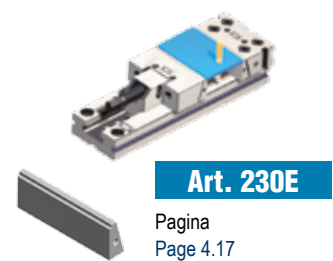
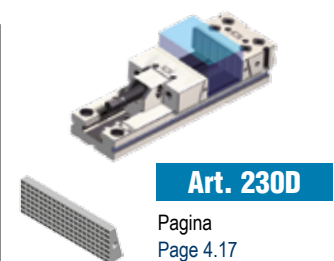
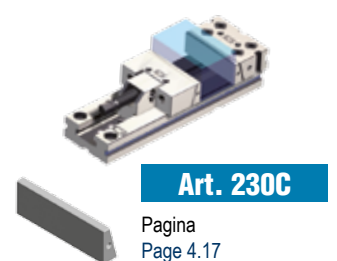
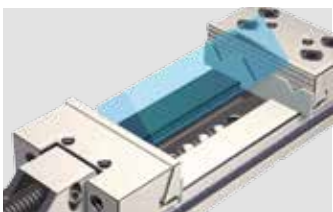
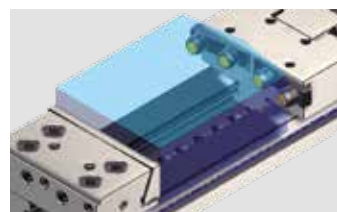
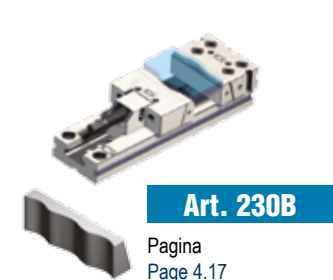
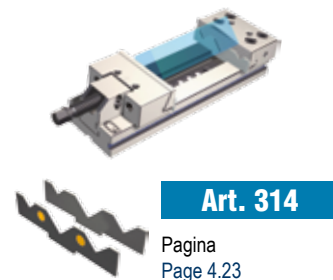
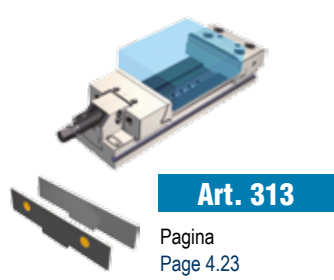
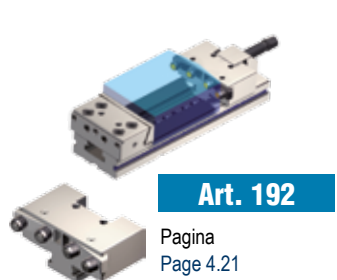
**Art. 217**

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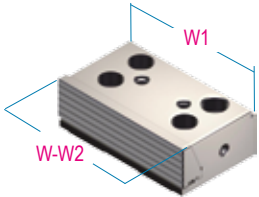
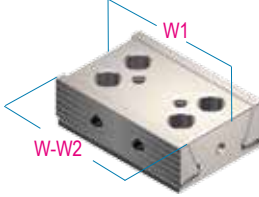

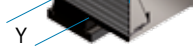



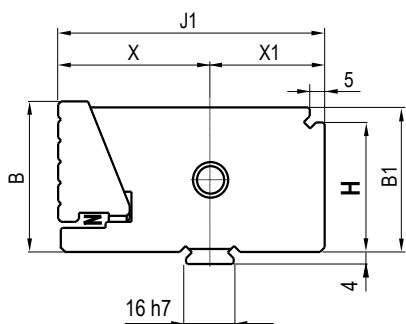
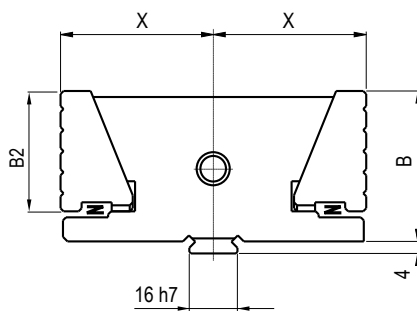
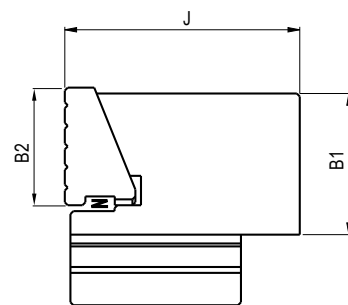


# ESEMPI APPLICATIVI APPLICATION EXAMPLES



## Ganasce STANDARD / STANDARD jaws

Tipo (grandezza) morsa / Vise (type) size	1	2	3	4	5	6
<b>Art. 120</b> W Ganasce fissa. Larghezza normale (W) Fixed jaw. Normal width (W)						
Cod.	2.12.01000	2.12.02000	2.12.03000	2.12.04000	2.12.05000	2.12.06000
€	133	168	201	238	338	521
<b>Art. 121</b> W2 Ganasce fissa. Larghezza ridotta rettificata (W2) Fixed jaw. Narrow width ground (W2)						
Cod.	2.12.11000	2.12.12000	2.12.13000	2.12.14000	2.12.15000	2.12.16000
€	171	217	261	307	439	677
<b>Art. 123</b> W Ganasce fissa doppia. Larghezza normale (W) Double fixed jaw. Normal width (W)						
Cod.	2.12.31000	2.12.32000	2.12.33000	2.12.34000	2.12.35000	2.12.36000
€	179	246	299	351	521	779
<b>Art. 124</b> W2 Ganasce fissa doppia. Larghezza ridotta rettificata (W2) Double fixed jaw. Narrow width ground (W2)						
Cod.	2.12.41000	2.12.42000	2.12.43000	2.12.44000	2.12.45000	2.12.46000
€	230	320	389	456	677	1.013
<b>Art. 127</b> W Ganasce mobile monoblocco guidata. Larghezza normale (W) Guided movable solid jaw. Normal width (W)						
Cod.	2.12.71000	2.12.72000	2.12.73000	2.12.74000	2.12.75000	2.12.76000
€	113	168	201	238	338	521
<b>Art. 129</b> W2 Ganasce mobile monoblocco guidata. Larghezza ridotta (W2) Guided movable solid jaw. Narrow width (W2)						
Cod.	2.12.91000	2.12.92000	2.12.93000	2.12.94000	2.12.95000	2.12.96000
€	133	168	201	238	338	521
<b>Art. 126</b> W Ganasce mobile <b>oscillante</b> . Larghezza normale (W) <b>Floating</b> movable jaw. Normal width (W)						
Cod.	2.12.61000	2.12.62000	2.12.63000	2.12.64000	2.12.65000	2.12.66000
€	133	168	201	238	338	521
<b>Art. 128</b> W2 Ganasce mobile <b>oscillante</b> . Larghezza ridotta (W2) <b>Floating</b> movable jaw. Narrow width (W2)						
Cod.	2.12.81000	2.12.82000	2.12.83000	2.12.84000	2.12.85000	2.12.86000
€	133	168	201	238	338	521

**Art. 120**

**Art. 123**

**Art. 127**

**W1 = W2 + 1mm**

Tipo / Type	1	2	3	4	5	6
W	100	125	150	175	200	300
W2	74	94	124	144	169	194
Y	21	28	41	51	61	71
Y - 1	20	27	40	50	60	70
B	30	40	50	60	65	80
B1	28	38	48	58	63	78
B2	24,5	32	39	43	53	63
* H	23	33	43	53	53	68
J	50	60	80	90	100	120
X	42,4	42,4	50,9	55,4	66,4	73,1
X1	35,5	35,5	38,5	41,5	47	47
J1	77,9	77,9	89,4	96,9	113,4	120,1

\* DIMENSIONE DA ACCOPPIARE AD Art. 212 + 217 + 214 - DIMENSION TO BE MATCHED WITH Art. 212 + 217 + 214



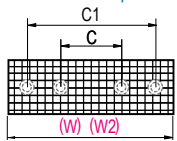
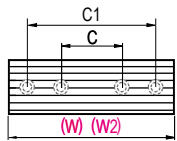
# Ricambi per ganasce STANDARD / Spares for STANDARD jaws

Tipo (grandezza) morsa / Vise (type) size	1	2	3	4	5	6
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**PIASTRE TEMPRATE RIGATE O QUADRETTATE**  
**HARDENED GROOVED OR SERRATED JAW PLATES**

Standard

A richiesta / On request



**Art. 230** (W)

**Art. 230S** (W)

Per ganasca fissa e mobile - Art. 120, 126, 127 - Larghezza normale (W)  
For fixed and movable jaw - Art. 120, 126, 127 - Normal width (W)

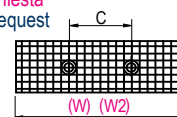
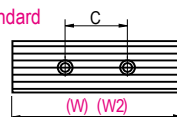
**Art. 231**

**Art. 231S**

Per ganasca fissa e mobile - Art. 121, 128, 129 - Larghezza ridotta (W2)  
For fixed and movable jaw - Art. 121, 128, 129 - Narrow width (W2)

Standard

A richiesta  
On request



**Art. 248** (W)

**Art. 248S** (W)

Per ganasca fissa doppia Art. 123 - Larghezza normale (W)  
For double fixed jaw Art. 123 - Normal width (W)

**Art. 249** (W2)

**Art. 249S** (W2)

Per ganasca fissa doppia Art. 124 - Larghezza ridotta (W2)  
For double fixed jaw Art. 124 - Narrow width (W2)

**PIASTRE LISCE TEMPRATE**  
**HARDENED SMOOTH JAW PLATES**

Fornibili a richiesta su ganasce e morse senza variazione di prezzo  
Available on request for complete jaws and vises without price change

**Art. 232** (W)

Per ganasca fissa e mobile - Art. 120, 127, 129 - Larghezza normale (W)  
For fixed and movable jaw - Art. 120, 127, 129 - Normal width (W)

**Art. 233** (W2)

Per ganasca fissa e mobile - Art. 121, 128, 129 - Larghezza ridotta (W2)  
For fixed and movable jaw - Art. 121, 128, 129 - Narrow width (W2)

**Art. 250** (W)

Per ganasca fissa doppia Art. 123 - Larghezza normale (W)  
For double fixed jaw Art. 123 - Normal width (W)

**Art. 251** (W2)

Per ganasca fissa doppia Art. 124 - Larghezza ridotta (W2)  
For double fixed jaw Art. 124 - Narrow width (W2)

**PIASTRE IN ACCIAIO LAVORABILE (DOLCE)**  
**MACHINEABLE STEEL JAW PLATES (SOFT)**

Fornibili a richiesta su ganasce e morse senza variazione di prezzo  
Available on request for complete jaws and vises without price change

**Art. 234** (W)

Per ganasca fissa e mobile - Art. 120, 127, 129 - Larghezza normale (W)  
For fixed and movable jaw - Art. 120, 127, 129 - Normal width (W)

**Art. 235** (W2)

Per ganasca fissa e mobile - Art. 121, 128, 129 - Larghezza ridotta (W2)  
For fixed and movable jaw - Art. 121, 128, 129 - Narrow width (W2)

**Art. 252** (W)

Per ganasca fissa doppia Art. 123 - Larghezza normale (W)  
For double fixed jaw Art. 123 - Normal width (W)

**Art. 253** (W2)

Per ganasca fissa doppia Art. 124 - Larghezza ridotta (W2)  
For double fixed jaw Art. 124 - Super narrow width (W2)

€ cad / each	53	58	69	86	120	161
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Per qualsiasi piastra ganascia speciale, raddoppiare il prezzo / For special tailor made jaw plate double the price

W	100	125	150	175	200	300
W2	74	94	124	144	169	194
A	14	20	24	24	29	35
B2	24,5	32	39	43	53	63
C	20	32	50	50	76	90
C1	62	80	90	116	138	184
Cod. Art. 230	1.65.10000	1.65.20000	1.65.30000	1.65.40000	1.65.50000	1.65.60000
Cod. Art. 230S	4.23.0S100	4.23.0S200	4.23.0S300	4.23.0S400	4.23.0S500	4.23.0S600

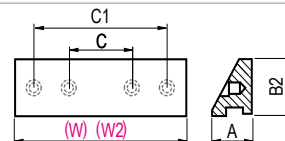
Cod. Art. 231	1.65.11000	1.65.21000	1.65.31000	1.65.41000	1.65.51000	1.65.61000
Cod. Art. 231S	4.23.1S100	4.23.1S200	4.23.1S300	4.23.1S400	4.23.1S500	4.23.1S600

**ATTENZIONE - ATTENTION:**

IN FASE D'ORDINE VERIFICARE QUOTE C - C1 - CHECK DIMENSIONS C - C1 IN CASE OF ORDER

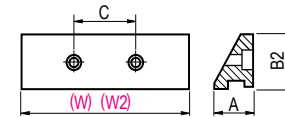
Cod. Art. 248	1.65.14000	1.65.24000	1.65.34000	1.65.44000	1.65.54000	1.65.64000
Cod. Art. 248S	4.24.8S100	4.24.8S200	4.24.8S300	4.24.8S400	4.24.8S500	4.24.8S600

Cod. Art. 249	1.65.15000	1.65.25000	1.65.35000	1.65.45000	1.65.55000	1.65.65000
Cod. Art. 249S	4.24.9S100	4.24.9S200	4.24.9S300	4.24.9S400	4.24.9S500	4.24.9S600



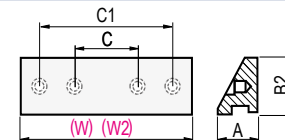
Cod. Art. 232	1.65.10100	1.65.20100	1.65.30100	1.65.40100	1.65.50100	1.65.60100
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Cod. Art. 233	1.65.11100	1.65.21100	1.65.31100	1.65.41100	1.65.51100	1.65.61100
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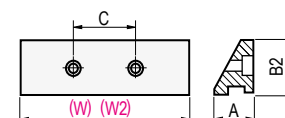
Cod. Art. 250	1.65.14100	1.65.24100	1.65.34100	1.65.44100	1.65.54100	1.65.64100
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Cod. Art. 251	1.65.15100	1.65.25100	1.65.35100	1.65.45100	1.65.55100	1.65.65100
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Cod. Art. 234	1.65.10200	1.65.20200	1.65.30200	1.65.40200	1.65.50200	1.65.60200
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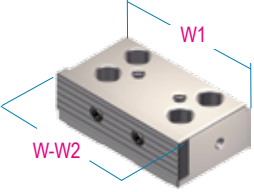

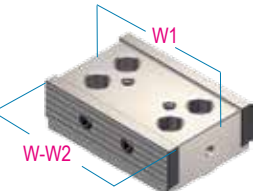
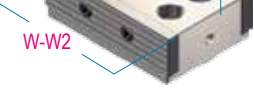
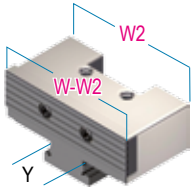
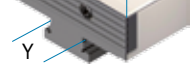

Cod. Art. 235	1.65.11200	1.65.21200	1.65.31200	1.65.41200	1.65.51200	1.65.61200
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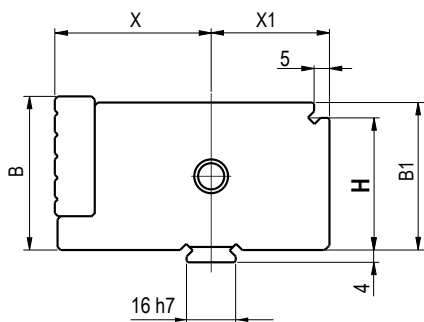
Cod. Art. 252	1.65.14200	1.65.24200	1.65.34200	1.65.44200	1.65.54200	1.65.64200
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Cod. Art. 253	1.65.15200	1.65.25200	1.65.35200	1.65.45200	1.65.55200	1.65.65200
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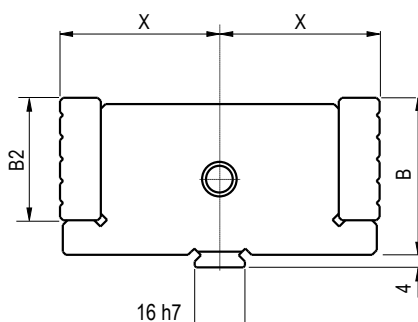
## Ganasce con PIASTRE PIANE / STRAIGHT PLATE jaws

Tipo (grandezza) morsa / Vise (type) size	1	2	3	4	5	6
<b>Art. 140</b> W Ganasce fissa. Larghezza normale (W) Fixed jaw. Normal width (W)						
Cod.	2.14.01000	2.14.02000	2.14.03000	2.14.04000	2.14.05000	2.14.06000
€	133	168	201	238	338	521
<b>Art. 141</b> W2 Ganasce fissa. Larghezza ridotta rettificata (W2) Fixed jaw. Narrow width ground (W2)						
Cod.	2.14.11000	2.14.12000	2.14.13000	2.14.14000	2.14.15000	2.14.16000
€	171	217	261	307	439	677
<b>Art. 143</b> W Ganasce fissa doppia. Larghezza normale (W) Double fixed jaw. Normal width (W)						
Cod.	2.14.31000	2.14.32000	2.14.33000	2.14.34000	2.14.35000	2.14.36000
€	179	246	299	351	521	779
<b>Art. 144</b> W2 Ganasce fissa doppia. Larghezza ridotta rettificata (W2) Double fixed jaw. Narrow width ground (W2)						
Cod.	2.14.41000	2.14.42000	2.14.43000	2.14.44000	2.14.45000	2.14.46000
€	230	320	389	456	677	1.013
<b>Art. 146</b> W Ganasce mobile monoblocco guidata. Larghezza normale (W) Guided movable solid jaw. Normal width (W)						
Cod.	2.14.61000	2.14.62000	2.14.63000	2.14.64000	2.14.65000	2.14.66000
€	133	168	201	238	338	521
<b>Art. 147</b> W2 Ganasce mobile monoblocco guidata. Larghezza ridotta (W2) Guided movable solid jaw. Narrow width (W2)						
Cod.	2.14.71000	2.14.72000	2.14.73000	2.14.74000	2.14.75000	2.14.76000
€	133	168	201	238	338	521
<b>Art. 148</b> W Ganasce mobile monoblocco oscillante. Larghezza normale (W) Floating movable solid jaw. Normal width (W)						
Cod.	2.14.81000	2.14.82000	2.14.83000	2.14.84000	2.14.85000	2.14.86000
€	133	168	201	238	338	521
<b>Art. 149</b> W2 Ganasce mobile monoblocco oscillante. Larghezza ridotta (W2) Floating movable solid jaw. Narrow width (W2)						
Cod.	2.14.91000	2.14.92000	2.14.93000	2.14.94000	2.14.95000	2.14.96000
€	133	168	201	238	338	521

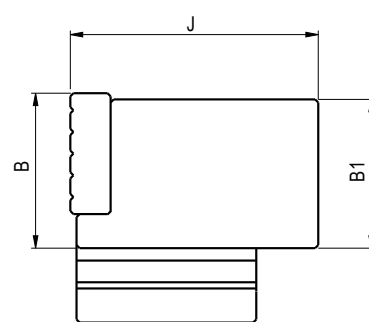
### Art. 140



### Art. 143



### Art. 146



$$W1 = W2 + 1\text{mm}$$

Tipo / Type	1	2	3	4	5	6
W	100	125	150	175	200	300
W2	74	94	124	144	169	194
Y	21	28	41	51	61	71
Y-1	20	27	40	50	60	70
B	30	40	50	60	65	80
B1	28	38	48	58	63	78
B2	24,5	32	40	43	48	63
* H	23	33	43	53	53	68
J	50	60	80	90	100	120
X	42,4	42,4	50,9	55,4	66,4	73,1
X1	35,5	35,5	38,5	41,5	47	47

\* DIMENSIONE DA ACCOPPIARE AD Art. 212 + 217 + 214 - DIMENSION TO BE MATCHED WITH Art. 212 + 217 + 214

## Ricambi per ganasce con PIASTRE PIANE / Spares for STRAIGHT STD jaws

Tipo (grandezza) morsa / Vise (type) size	1	2	3	4	5	6
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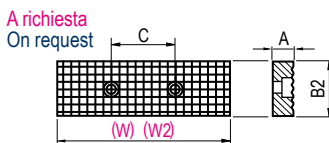
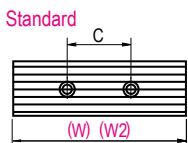
**PIASTRE PIANE TEMPRATE, RIGATE O QUADRETTATE**

**HARDENED GROOVED OR SERRATED STRAIGHT JAW PLATES**

Dotazione normale delle ganasce e delle morse complete  
Standard equipment on complete jaws and vises

€ cad / each	53	58	69	86	120	161
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Per qualsiasi piastra ganascia speciale, raddoppiare il prezzo / For special tailor made jaw plate double the price



**Art. 242** (W)

**Art. 242S** (W)

Per ganascia fissa e mobile - Art. 140, 143, 146 - Larghezza normale (W)  
For fixed and movable jaw - Art. 140, 143, 146 - Normal width (W)

	100	125	150	175	200	300
W	100	125	150	175	200	300
W2	74	94	124	144	169	194
A	12	12	13	13	18	18
B2	24,5	32	40	43	48	56
C	25	32	50	50	76	90

Cod. Art. 242	1.65.16000	1.65.26000	1.65.36000	1.65.46000	1.65.56000	1.65.66000
Cod. Art. 242S	4.24.2S100	4.24.2S200	4.24.2S300	4.24.2S400	4.24.2S500	4.24.2S600

**Art. 243** (W2)

**Art. 243S** (W2)

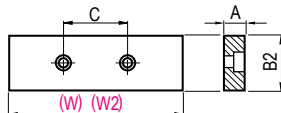
Per ganascia fissa e mobile - Art. 141, 144, 147 - Larghezza ridotta (W2)  
For fixed and movable jaw - Art. 141, 144, 147 - Narrow width (W2)

Cod. Art. 243	1.65.17000	1.65.27000	1.65.37000	1.65.47000	1.65.57000	1.65.67000
Cod. Art. 243S	4.24.3S100	4.24.3S200	4.24.3S300	4.24.3S400	4.24.3S500	4.24.3S600

**PIASTRE PIANE LISCE TEMPRATE**

**HARDENED SMOOTH STRAIGHT JAW PLATES**

Fornibili a richiesta su ganasce e morse senza variazione di prezzo  
Available on request for complete jaws and vises without price change



**Art. 244** (W)

Per ganascia fissa e mobile - Art. 140, 143, 146 - Larghezza normale (W)  
For fixed and movable jaw - Art. 140, 143, 146 - Normal width (W)

Cod. Art. 244	4.24.41000	4.24.42000	4.24.43000	4.24.44000	4.24.45000	4.24.46000
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**Art. 245** (W2)

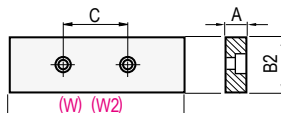
Per ganascia fissa e mobile - Art. 141, 144, 147 - Larghezza ridotta (W2)  
For fixed and movable jaw - Art. 141, 144, 147 - Narrow width (W2)

Cod. Art. 245	4.24.51000	4.24.52000	4.24.53000	4.24.54000	4.24.55000	4.24.56000
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**PIASTRE PIANE IN ACCIAIO LAVORABILE (DOLCE)**

**MACHINEABLE STEEL STRAIGHT JAW PLATES (SOFT HRC)**

Fornibili a richiesta su ganasce e morse senza variazione di prezzo  
Available on request for complete jaws and vises without price change



**Art. 246** (W)

Per ganascia fissa e mobile - Art. 140, 143, 146 - Larghezza normale (W)  
For fixed and movable jaw - Art. 140, 143, 146 - Normal width (W)

Cod. Art. 246	1.65.16200	1.65.26200	1.65.36200	1.65.46200	1.65.56200	1.65.66200
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**Art. 247** (W2)

Per ganascia fissa e mobile - Art. 141, 144, 147 - Larghezza ridotta (W2)  
For fixed and movable jaw - Art. 141, 144, 147 - Narrow width (W2)

Cod. Art. 247	1.65.17200	1.65.27200	1.65.37200	1.65.47200	1.65.57200	1.65.67200
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**PIASTRE PIANE TEMPRATE GRIP**

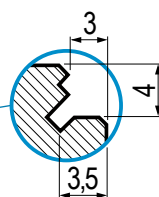
**HARDENED STRAIGHT JAW PLATES GRIP**

Fornibili a richiesta su ganasce e morse senza variazione di prezzo  
Available on request for complete jaws and vises without price change



**PIASTRE GANASCE "GRIP" JAW PLATES**

**< Superficie Surface >** **Pressione Pressure**



**Art. 246T** (W)

Per ganascia fissa e mobile - Art. 140, 143, 146 - Larghezza normale (W)  
For fixed and movable jaw - Art. 140, 143, 146 - Normal width (W)

Cod. Art. 246T	4.24.6T100	4.24.6T200	4.24.6T300	4.24.6T400	4.24.6T500	4.24.6T600
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**Art. 247T** (W2)

Per ganascia fissa e mobile - Art. 141, 144, 147 - Larghezza ridotta (W2)  
For fixed and movable jaw - Art. 141, 144, 147 - Narrow width (W2)

Cod. Art. 247T	4.24.7T100	4.24.7T200	4.24.7T300	4.24.7T400	4.24.7T500	4.24.7T600
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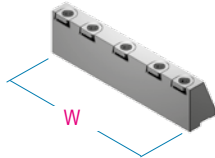
# PIASTRE GANASCE CON INSERTI GRIP INSERT GRIP JAW PLATES

**NEW!**

Tipo (grandezza) morsa / Vise (type) size	1	2	3	4	5	6
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**Art. 242G** **W**

Piastra Ganascia con Inserti GRIP. Larghezza normale (W)  
Jaw plate with GRIP insert. Normal width (W)

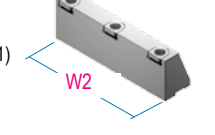


Cod.	1.24.2G100	1.24.2G200	1.24.2G300	1.24.2G400	1.24.2G500	1.24.2G600
€	90	100	120	140	190	250

**ATTENZIONE - ATTENTION:**  
Utilizzare solo con viti posteriori ben serrate - Using only with rear screws strong clamped

**Art. 243G** **W2**

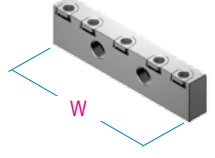
Piastra Ganascia con Inserti GRIP. Larghezza ridotta rettificata (W1)  
Jaw plate with GRIP insert. Narrow width ground (W1)



Cod.	1.24.3G100	1.24.3G200	1.24.3G300	1.24.3G400	1.24.3G500	1.24.3G600
€	90	100	110	140	180	240

**Art. 246G** **W**

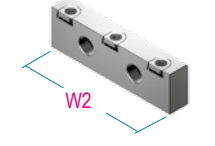
Piastra Piana con Inserti GRIP. Larghezza normale (W)  
Straight Plate with GRIP inserts. Normal width (W)



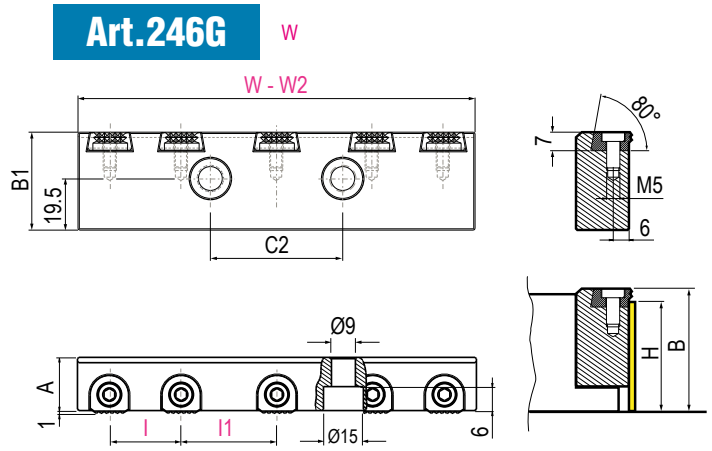
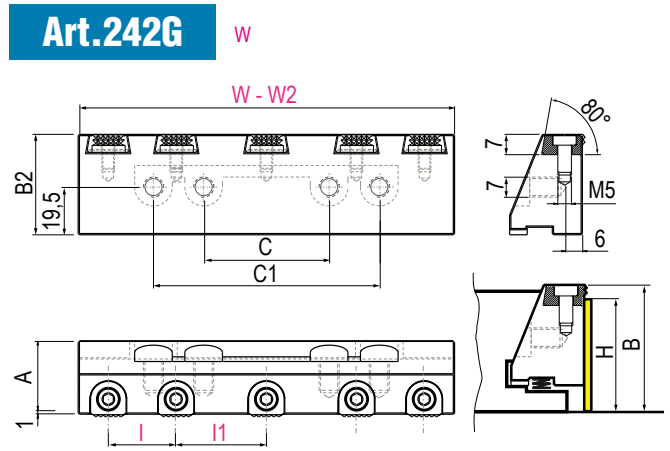
Cod.	1.24.6G100	1.24.6G200	1.24.6G300	1.24.6G400	1.24.6G500	1.24.6G600
€	90	100	120	140	190	250

**Art. 247G** **W2**

Piastra Piana con Inserti GRIP. Larghezza ridotta rettificata (W1)  
Straight Plate with GRIP inserts. Narrow width ground (W1)



Cod.	1.24.7G100	1.24.7G200	1.24.7G300	1.24.7G400	1.24.7G500	1.24.7G600
€	90	100	110	140	180	240



**Dotazione Standard - Standard Equipment**  
1 pc. Art.313 parallela magnetica - 1 pc. Art.313 magnetic parallel

Tipo / Type	1	2	3	4	5	6
W	100	125	150	175	200	300
W2	74	94	124	144	169	194
I	35	43	36-27	35	27	33
I1	25	32	47	28,5	35	27
C	20	32	50	50	76	90
C1	62	80	90	116	138	184
C2	25	32	50	50	76	80
B	30	40	50	60	65	80
B1	24,5	32	40	43	48	56
B2	24,5	32	40	40	53	53
A	14	20	24	24	29	35
A1	12	12	13	13	18	18
H	25	35	45	55	60	75

4

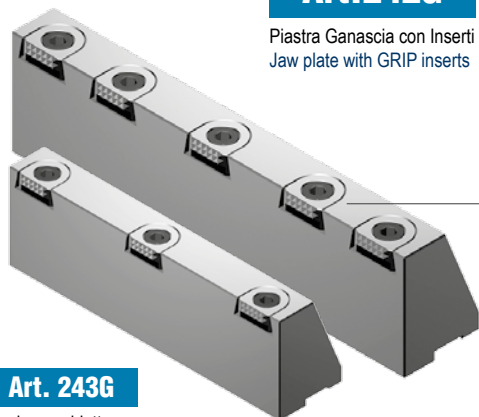


# PIASTRE GANASCE CON INSERTI GRIP INSERT GRIP JAW PLATES

**NEW!**

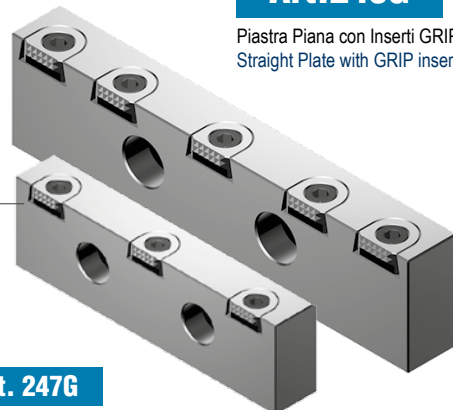
## Art.242G

Piastra Ganaschia con Inserti GRIP  
Jaw plate with GRIP inserts



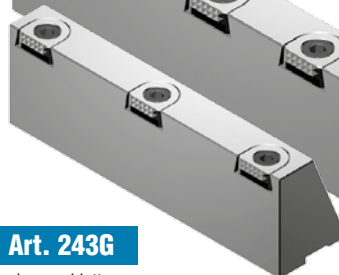
## Art.246G

Piastra Piana con Inserti GRIP  
Straight Plate with GRIP inserts



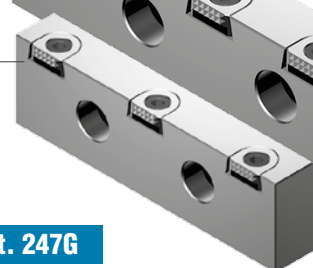
## Art. 243G

Larghezza ridotta  
Narrow width



## Art. 247G

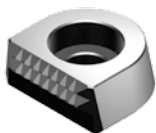
Larghezza ridotta  
Narrow width



### Inserti Grip - Grip Inserts

## Art. 220 G01

Per materiali di durezza normale  
For standard workpieces hardness clamping



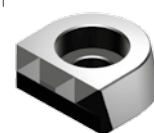
## Art. 220 G02

Per materiali di notevole durezza.  
For hardened workpieces clamping



## Art. 220 G11

Per materiali teneri  
For soft material clamping



Cod. 4.22.01000 / G01

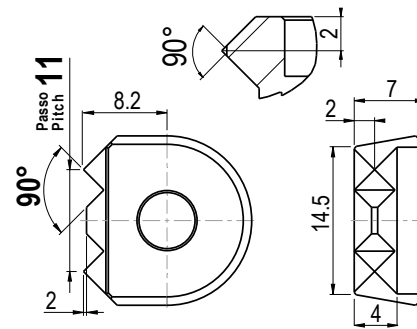
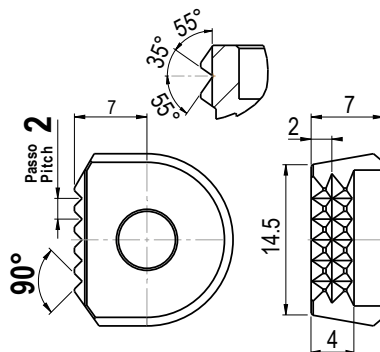
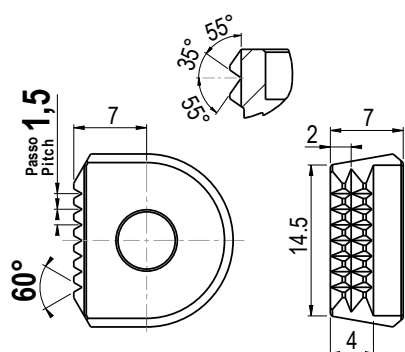
€ 5

Cod. 4.22.01000 / G02

€ 5

Cod. 4.22.01000 / G11

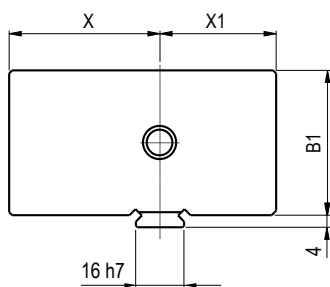
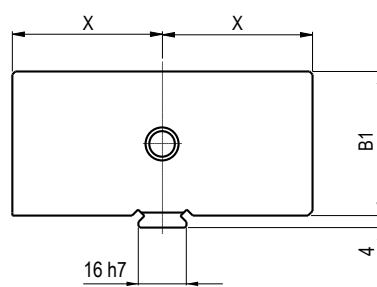
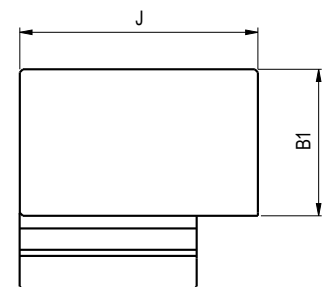
€ 5



Tipo / Type	1	2	3	4	5	6
Art.242G - Art.246G	3 pcs each jaw plate	3 pcs each jaw plate	5 pcs each jaw plate	5 pcs each jaw plate	7 pcs each jaw plate	9 pcs each jaw plate
Art.243G - Art.247G	3 pcs each jaw plate	3 pcs each jaw plate	3 pcs each jaw plate	5 pcs each jaw plate	5 pcs each jaw plate	7 pcs each jaw plate

**Ganasce lavorabili (dolci) MONOBLOCCO / SOLID machineable (soft) jaws**

Tipo (grandezza) morsa / Vise (type) size	1	2	3	4	5	6
<b>Art. 160</b> W3 Ganascia fissa. Larghezza normale (W3) Fixed jaw. Normal width (W3)						
	Cod. 2.16.01000	2.16.02000	2.16.03000	2.16.04000	2.16.05000	2.16.06000
	€ <b>133</b>	<b>168</b>	<b>201</b>	<b>238</b>	<b>338</b>	<b>521</b>
<b>Art. 161</b> W1 Ganascia fissa. Larghezza ridotta rettificata (W1) Fixed jaw. Narrow width grinded (W1)						
	Cod. 2.16.11000	2.16.12000	2.16.13000	2.16.14000	2.16.15000	2.16.16000
	€ <b>171</b>	<b>217</b>	<b>261</b>	<b>307</b>	<b>439</b>	<b>677</b>
<b>Art. 163</b> W3 Ganascia fissa doppia. Larghezza normale (W3) Double fixed jaw. Normal width (W3)						
	Cod. 2.16.31000	2.16.32000	2.16.33000	2.16.34000	2.16.35000	2.16.36000
	€ <b>179</b>	<b>246</b>	<b>299</b>	<b>351</b>	<b>521</b>	<b>779</b>
<b>Art. 164</b> W1 Ganascia fissa doppia. Larghezza ridotta rettificata (W1) Double fixed jaw. Narrow width grinded (W1)						
	Cod. 2.16.41000	2.16.42000	2.16.43000	2.16.44000	2.16.45000	2.16.46000
	€ <b>230</b>	<b>320</b>	<b>389</b>	<b>456</b>	<b>677</b>	<b>1.013</b>
<b>Art. 166</b> W3 Ganascia mobile monoblocco guidata. Larghezza normale (W3) Guided movable solid jaw. Normal width (W3)						
	Cod. 2.16.61000	2.16.62000	2.16.63000	2.16.64000	2.16.65000	2.16.66000
	€ <b>133</b>	<b>168</b>	<b>201</b>	<b>238</b>	<b>338</b>	<b>521</b>
<b>Art. 167</b> W2 Ganascia mobile monoblocco guidata. Larghezza ridotta (W2) Guided movable solid jaw. Narrow width (W2)						
	Cod. 2.16.71000	2.16.72000	2.16.73000	2.16.74000	2.16.75000	2.16.76000
	€ <b>133</b>	<b>168</b>	<b>201</b>	<b>238</b>	<b>338</b>	<b>521</b>
<b>Art. 168</b> W3 Ganascia mobile monoblocco oscillante. Larghezza normale (W3) Floating movable solid jaw. Normal width (W3)						
	Cod. 2.16.81000	2.16.82000	2.16.83000	2.16.84000	2.16.85000	2.16.86000
	€ <b>133</b>	<b>168</b>	<b>201</b>	<b>238</b>	<b>338</b>	<b>521</b>
<b>Art. 169</b> W2 Ganascia mobile monoblocco oscillante. Larghezza ridotta (W2) Floating movable solid jaw. Narrow width (W2)						
	Cod. 2.16.91000	2.16.92000	2.16.93000	2.16.94000	2.16.95000	2.16.96000
	€ <b>133</b>	<b>168</b>	<b>201</b>	<b>238</b>	<b>338</b>	<b>521</b>

**HB= 290**
**Art. 160**

**Art. 163**

**Art. 166**


Art.	1	2	3	4	5	6
W3	96	121	146	171	196	296
W1	75	95	125	145	170	195
W2	74	94	124	144	169	194
B1	28	38	48	58	63	78
Y	21	28	41	51	61	71
Y-1	20	27	40	50	60	70
J	50	60	80	90	100	120
X	42,4	42,4	50,9	55,4	66,4	73,1
X1	35,5	35,5	36,5	41,5	47	47

## Ganasce monoblocco con GRADINO. Temprate / Solid jaws with STEP. Case hardened

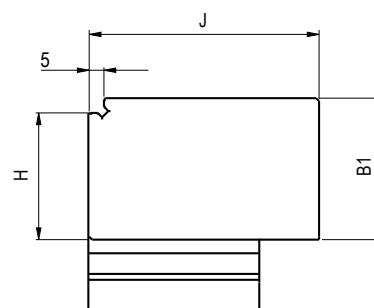
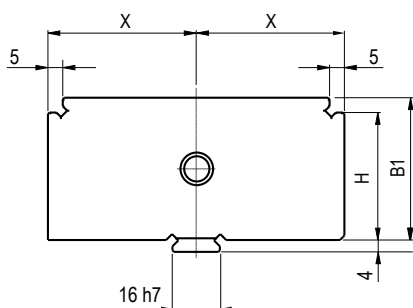
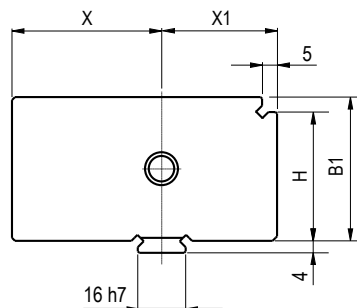
Tipo (grandezza) morsa / Vise (type) size	1	2	3	4	5	6
<b>Art. 200</b> W3 Ganasce fissa. Larghezza normale (W3) Fixed jaw. Normal width (W3)	Cod. 2.20.01000	2.20.02000	2.20.03000	2.20.04000	2.20.05000	2.20.06000
	€ 133	168	201	238	338	521
<b>Art. 201</b> W1 Ganasce fissa. Larghezza ridotta rettificata (W1) Fixed jaw. Narrow width ground (W1)	Cod. 2.20.11000	2.20.12000	2.20.13000	2.20.14000	2.20.15000	2.20.16000
	€ 171	217	261	307	439	677
<b>Art. 203</b> W3 Ganasce fissa doppia. Larghezza normale (W3) Double fixed jaw. Normal width (W3)	Cod. 2.20.31000	2.20.32000	2.20.33000	2.20.34000	2.20.35000	2.20.36000
	€ 179	246	299	351	521	779
<b>Art. 204</b> W1 Ganasce fissa doppia. Larghezza ridotta rettificata (W1) Double fixed jaw. Narrow width ground (W1)	Cod. 2.20.41000	2.20.42000	2.20.43000	2.20.44000	2.20.45000	2.20.46000
	€ 230	320	389	456	677	1.013
<b>Art. 208</b> W3 Ganasce mobile monoblocco guidata. Larghezza normale (W3) Guided movable solid jaw. Normal width (W3)	Cod. 2.20.81000	2.20.82000	2.20.83000	2.20.84000	2.20.85000	2.20.86000
	€ 133	168	201	238	338	521
<b>Art. 209</b> W2 Ganasce mobile monoblocco guidata. Larghezza ridotta (W2) Guided movable solid jaw. Narrow width (W2)	Cod. 2.20.91000	2.20.92000	2.20.93000	2.20.94000	2.20.95000	2.20.96000
	€ 133	168	201	238	338	521
<b>Art. 206</b> W3 Ganasce mobile monoblocco oscillante. Larghezza normale (W3) Floating movable solid jaw. Normal width (W3)	Cod. 2.20.61000	2.20.62000	2.20.63000	2.20.64000	2.20.65000	2.20.66000
	€ 133	168	201	238	338	521
<b>Art. 207</b> W2 Ganasce mobile monoblocco oscillante. Larghezza ridotta (W2) Floating movable solid jaw. Narrow width (W2)	Cod. 2.20.71000	2.20.72000	2.20.73000	2.20.74000	2.20.75000	2.20.76000
	€ 133	168	201	238	338	521

**HRC= 60**

**Art. 200**

**Art. 203**

**Art. 208**

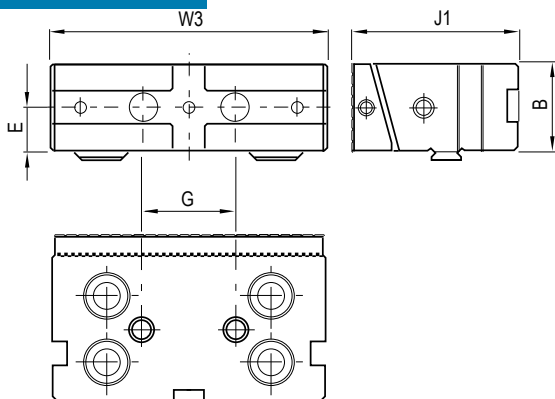


Art.	1	2	3	4	5	6
W3	96	121	146	171	196	296
W1	75	95	125	145	170	195
W2	74	94	124	144	169	194
Y	21	28	41	51	61	71
Y-1	20	27	40	50	60	70
B1	28	38	48	58	63	78
* H	23	33	43	53	53	68
J	50	60	80	90	100	120
X	42,4	42,4	50,9	55,4	66,4	73,1
X1	35,5	35,5	38,5	41,5	47	47

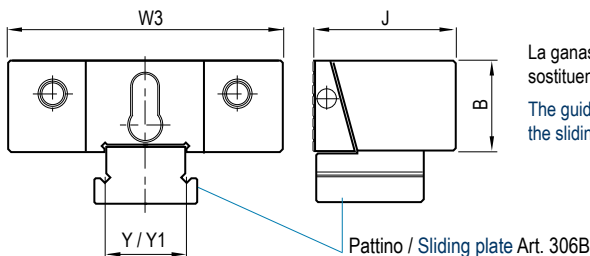
\* DIMENSIONE DA ACCOPPIARE AD Art. 2012 + 217 + 214 - DIMENSION TO BE MATCHED WITH Art. 212 + 217 + 214

**Piastra ganascia StdFLEX a cambio rapido / StdFLEX quick change jaw plates**

Tipo (grandezza) morsa / Vise (type) size	1	2	3	4	5	6
<b>Art. 120A</b> Ganascia fissa Fixed jaw	Cod. 4.12.0A100 € <b>171</b>	Cod. 4.12.0A200 € <b>218</b>	Cod. 4.12.0A300 € <b>261</b>	Cod. 4.12.0A400 € <b>307</b>	Cod. 4.12.0A500 € <b>442</b>	Cod. 4.12.0A600 € <b>678</b>
<b>Art. 123A</b> Ganascia fissa doppia Double fixed jaw	Cod. 4.12.3A100 € <b>232</b>	Cod. 4.12.3A200 € <b>320</b>	Cod. 4.12.3A300 € <b>389</b>	Cod. 4.12.3A400 € <b>456</b>	Cod. 4.12.3A500 € <b>678</b>	Cod. 4.12.3A600 € <b>1.014</b>
<b>Art. 126A</b> Ganascia mobile oscillante Floating movable jaw	Cod. 4.12.6A100 € <b>171</b>	Cod. 4.12.6A200 € <b>218</b>	Cod. 4.12.6A300 € <b>261</b>	Cod. 4.12.6A400 € <b>307</b>	Cod. 4.12.6A500 € <b>442</b>	Cod. 4.12.6A600 € <b>678</b>
<b>Art. 127A</b> Ganascia mobile guidata Guided movable jaw	Cod. 4.12.7A100 € <b>171</b>	Cod. 4.12.7A200 € <b>218</b>	Cod. 4.12.7A300 € <b>261</b>	Cod. 4.12.7A400 € <b>307</b>	Cod. 4.12.7A500 € <b>442</b>	Cod. 4.12.7A600 € <b>678</b>

**HRC= 60**
**Art. 120A**


**Ganacce StandardFLEX con piastre intercambiabili manualmente (Sistema a pettine)**  
**StandardFLEX jaws with interchangeable jaw plates by hand (Comb system)**


**Art. 127A**


La ganascia mobile guidata, Art. 127A, può essere tramutata in ganascia mobile oscillante, sostituendo il pattino, Art. 306B, con il pattino Art. 306C (vedi pag. 4-26)

The guided movable jaw, Art. 127A, could be transformed in a floating movable jaw by simply exchanging the sliding plate, Art. 306B, with sliding plate Art. 306C (see page 4-26)

mm	1	2	3	4	5	6
W3	96	121	146	171	196	296
W1	95	120	145	170	195	295
B	28	38	48	58	63	78
E	14	19	25	27	30	47
G	-	-	50	50	50	50
J	50	60	80	90	100	120
J1	77,9	77,9	89,4	96,9	113,4	120,4
Y	21	28	41	51	61	71
Y1	20	27	40	50	60	70

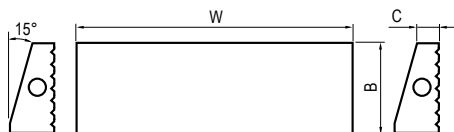


## Piastrine ganascia StdFLEX a cambio rapido / StdFLEX quick change jaw plates

Tipo (grandezza) morsa / Vise (type) size

1 2 3 4 5 6

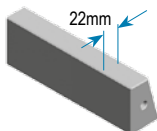
**Piastrine ganascie rapide singole.** Ricambi per ganascie rapide a pettine  
**Single quick change jaw plates.** Spares for quick change comb jaw



W	95	120	145	170	195	295
B	28	38	48	58	63	78
C	9	11	11	11	14	14

### Art. 230B

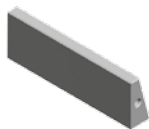
Piastra ganascia intercambiabile dolce a pettine  
**Soft comb interchangeable jaw plate**



Cod.	4.23.0B101	4.23.0B201	4.23.0B301	4.23.0B401	4.23.0B501	4.23.0B601
€	63	69	83	105	148	196

### Art. 230C

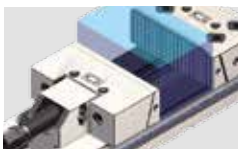
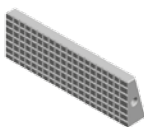
Piastra ganascia intercambiabile liscia a pettine  
**Smooth comb interchangeable jaw plate**



Cod.	4.23.0C101	4.23.0C201	4.23.0C301	4.23.0C401	4.23.0C501	4.23.0C601
€	79	86	104	131	186	245

### Art. 230D

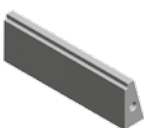
Piastra ganascia intercambiabile zigrinata a pettine  
**Serrated comb interchangeable jaw plate**



Cod.	4.23.0D101	4.23.0D201	4.23.0D301	4.23.0D401	4.23.0D501	4.23.0D601
€	79	86	104	131	186	245

### Art. 230E

Piastra ganascia intercambiabile a gradino a pettine  
**Step comb interchangeable jaw plate**

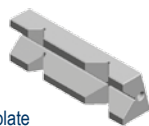


Vedi selezione piastrine ganascia a pag. 4.18  
See jaw step selection pag. 4.18

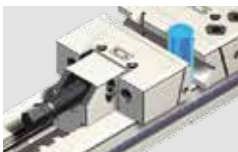
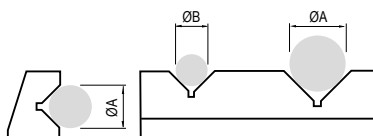
Cod.	4.23.0E101	4.23.0E201	4.23.0E301	4.23.0E401	4.23.0E501	4.23.0E601
€	79	86	104	131	186	245

### Art. 230F

Piastra ganascia intercambiabile prismatica a pettine  
**Prismatic comb interchangeable jaw plate**



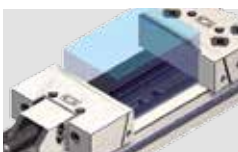
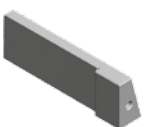
Ø min / max	A	6 / 16	9 / 24	13 / 38	15 / 40	15 / 42	15 / 42
Ø min / max	B	4 / 10	7 / 18	9 / 24	9 / 24	9 / 24	9 / 24



Cod.	4.23.0F101	4.23.0F201	4.23.0F301	4.23.0F401	4.23.0F501	4.23.0F601
€	103	112	135	170	241	318

### Art. 230G

Piastra ganascia intercambiabile a pettine con arresto a 90°  
**90° interchangeable comb jaw plate**

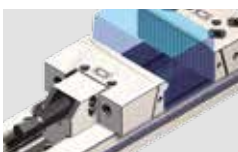
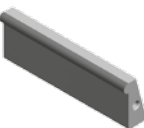


**Solo 1 per morsa !! Just 1 pc each vise !!**

Cod.	4.23.0G101	4.23.0G201	4.23.0G301	4.23.0G401	4.23.0G501	4.23.0G601
€	79	86	104	131	186	245

### Art. 230H

Piastra ganascia intercambiabile bombata a pettine  
**Round comb interchangeable jaw plate**

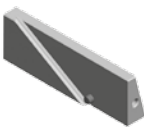


**Solo 1 per morsa !! Just 1 pc each vise !!**

Cod.	4.23.0H101	4.23.0H201	4.23.0H301	4.23.0H401	4.23.0H501	4.23.0H601
€	79	86	104	131	186	245

### Art. 230M

Piastra ganascia intercambiabile a pettine per angolo di 30° o 45°  
**30° or 45° angle interchangeable comb jaw plate**

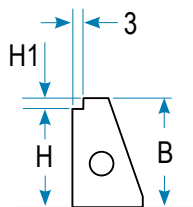
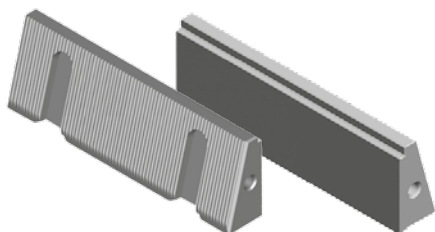


**Solo 1 per morsa !! Just 1 pc each vise !!**

Cod.	4.23.0M101	4.23.0M201	4.23.0M301	4.23.0M401	4.23.0M501	4.23.0M601
€	103	112	135	170	241	318

**Ganasce StandardFLEX a cambio rapido / StandardFLEX quick change jaws**

Tipo (grandezza) morsa / Vise (type) size

**1      2      3      4      5      6**
**RISPARMIO DEL 40 % - SAVE 40 %**
**Art. 230E Set**
**Set di coppie** di piastre ganasce a cambio rapido a gradino Art. 230E  
**Set of pairs** of quick change step jaw plates Art 230E


B	28	38	48	58	63	78
H1	Set di 8 pezzi / Set of 8 pcs	3	3	3	3	3
	Set di 12 pezzi / Set of 12 pcs	5	5	5	5	5
	Set di 14 pezzi / Set of 14 pcs	8	8	8	8	10
	Set di 16 pezzi / Set of 16 pcs	13	13	13	13	13
	-	18	18	18	18	18
	-	23	23	23	23	23
	-	-	28	28	28	28
H	23	33	43	53	53	68
Cod.	4.23.0E112	4.23.0E212	4.23.0E312	4.23.0E412	4.23.0E512	4.23.0E612
€	375	620	868	1.089	1.551	2.053

Prezzo set di coppie - Price set of pairs

Cod.	4.23.0E101	4.23.0E201	4.23.0E301	4.23.0E401	4.23.0E501	4.23.0E601
€	47	52	62	78	97	128

Prezzo Cad. se acquistate con set - Price each in case of purchase of a set

**Art. 605G1**

Vite a gradino / Step screw



Cod. 6.60.5G101

€ 4

**Art. 605G2**

Perno a molla / Spring pin



Cod. 6.60.5G202

€ 6

**Art. 605G3**

Molla / Spring



Cod. 6.60.5G301

€ 10

**Risparmio del 33% sul raccoglitore Art.320 (vuoto) se acquistato insieme ad un set di piastre ganasce Art.230A**  
**Save 33% purchasing the rack Art.320 together with the small or big set of straight magnetic parallels plates Art.230E**
**Art. 320A**

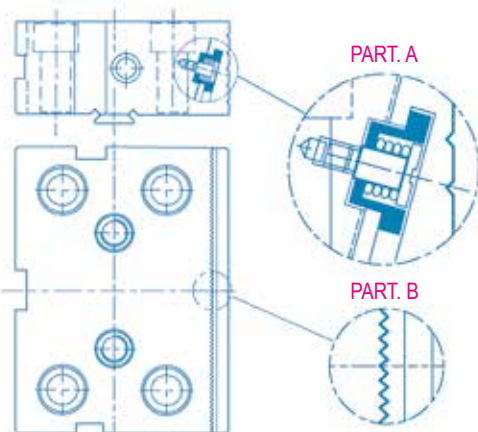
 Portapiastre Art.320 completo di piastre ganasce a cambio rapido a gradino Art. 230E  
 Rack Art.320 complete of quick change step jaw plates Art 230E


Cod.	4.32.0A100	4.32.0A200	4.32.0A300	4.32.0A400	4.32.0A500	4.32.0A600
€	417	671	925	1.155	1.629	2.152

**Art. 320**

 Portapiastre  
 Rack


Cod.	4.32.01000	4.32.02000	4.32.03000	4.32.04000	4.32.05000	4.32.06000
€	63	75	86	99	114	138


**Rapida sostituzione delle piastre ganasce discendenti senza bisogno di alcun utensile**

Il nuovo sistema con piastre ganasce intercambiabili, conferisce alla morsa STD un ulteriore aumento di versatilità dato dalla rapidità di sostituzione delle piastre ganasce e dalla precisione di riposizionamento.

La rapidità di sostituzione delle piastre ganasce è resa possibile dal nuovo sistema con perno a molla (PART. A), mentre le righe prismatiche (PART. B) effettuate con mola sagomata sui piani d'appoggio rendono possibile un riposizionamento di elevata precisione.

**Quick hand change of downward jaw plates - no tools needed**

The new system with quick interchangeable jaw plates increases the STD vise versatility, and allows the quick jaw allows plates replacement and their high precision repositioning.

The speed of the jaw replacement is allowed by the new design of pin with spring (PART. A), while the prismatic grooves (PART. B), made with shaped grind wheel on the surface plates, allow a perfect repositioning.

The wide range of interchangeable jaw plates can satisfy the most varied workholding needs.

## Ganasce MOBILI INTERMEDIE / INTERMEDIATE MOVABLE jaws

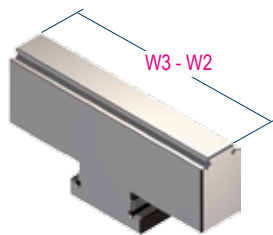
Tipo (grandezza) morsa / Vise (type) size

1 2 3 4 5 6

### Art. 212 W3

Ganasca mobile intermedia con doppio gradino.  
Larghezza normale (W3)

Intermediate movable jaw with double step.  
Normal width (W3)



Cod.	1.21.21000	1.21.22000	1.21.23000	1.21.24000	1.21.25000	1.21.26000
€	86	104	138	172	207	288



### Art. 213 W2

Ganasca mobile intermedia con doppio gradino.  
Larghezza ridotta (W2)

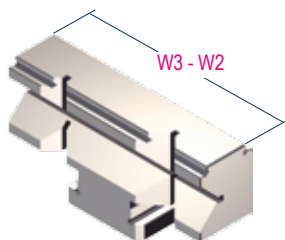
Intermediate movable jaw with double step.  
Narrow width (W2)

Cod.	1.21.31000	1.21.32000	1.21.33000	1.21.34000	1.21.35000	1.21.36000
€	86	104	138	172	207	288

### Art. 214 W3

Ganasca mobile intermedia prismatica.  
Larghezza normale (W3)

Prismatic intermediate movable jaw.  
Normal width (W3)



Cod.	1.21.41000	1.21.42000	1.21.43000	1.21.44000	1.21.45000	1.21.46000
€	137	138	172	218	288	491

### Art. 215 W2

Ganasca mobile intermedia.  
Larghezza ridotta (W2)

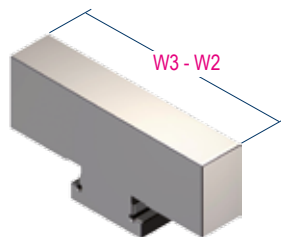
Intermediate movable jaw.  
Narrow width (W2)

Cod.	1.21.51000	1.21.52000	1.21.53000	1.21.54000	1.21.55000	1.21.56000
€	137	138	172	218	288	491

### Art. 224 W3

Ganasca mobile intermedia.  
Larghezza normale (W3)

Intermediate movable jaw.  
Normal width (W3)



Cod.	1.22.41000	1.22.42000	1.22.43000	1.22.44000	1.22.45000	1.22.46000
€	99	114	149	190	230	321

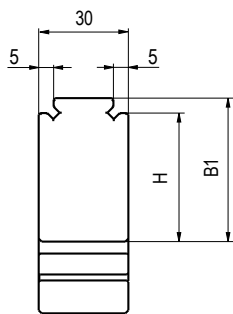
### Art. 225 W2

Ganasca mobile intermedia.  
Larghezza ridotta (W2)

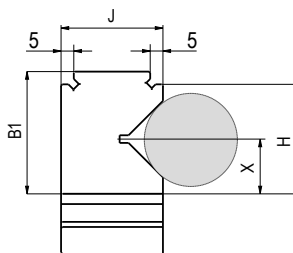
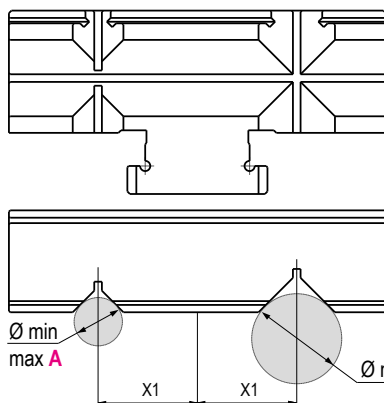
Intermediate movable jaw.  
Narrow width (W2)

Cod.	1.22.51000	1.22.52000	1.22.53000	1.22.54000	1.22.55000	1.22.56000
€	99	114	149	190	230	321

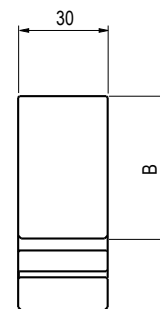
### Art. 212



### Art. 214



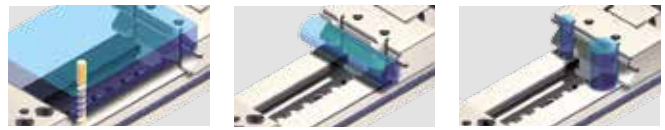
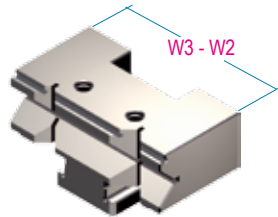
### Art. 224



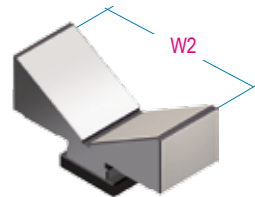
Art.	1	2	3	4	5	6
W3	96	121	146	171	196	296
W2	74	94	124	144	169	194
B	30	40	50	60	65	80
B1	28	38	48	58	63	78
H	23	33	43	53	53	68
J	30	30	40	40	45	50
X	11,5	16,5	21,5	26,5	26,5	34
X1	25	33	39	50	55	70
Ø min/max A	4 - 10	7 - 18	9 - 24	9 - 24	9 - 24	10 - 28
Ø min/max B	6 - 16	9 - 24	13 - 38	15 - 40	15 - 42	18 - 46

## Ganasce MOBILI PRISMATICHE / PRISMATIC MOVABLE jaws

Tipo (grandezza) morsa / Vise (type) size	1	2	3	4	5	6
<b>Art. 217</b> W3 Ganascia mobile guidata prismatica. Larghezza normale (W3) Prismatic guided movable jaw. Normal width (W3)	Cod. 2.21.71000 € 137	Cod. 2.21.72000 € 113	Cod. 2.21.73000 € 161	Cod. 2.21.74000 € 218	Cod. 2.21.75000 € 288	Cod. 2.21.76000 € 491
<b>Art. 218</b> W2 Ganascia mobile guidata prismatica. Larghezza ridotta (W2) Prismatic guided movable jaw. Narrow width (W2)	Cod. 2.21.81000 € 137	Cod. 2.21.82000 € 113	Cod. 2.21.83000 € 161	Cod. 2.21.84000 € 218	Cod. 2.21.85000 € 288	Cod. 2.21.86000 € 491



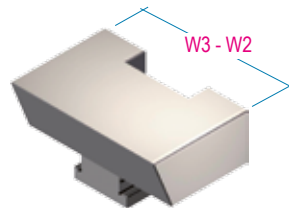
**Art. 152** W2  
Inserto prismatico.  
Larghezza ridotta (W2)  
Prismatic insert. Narrow width (W2)



Cod.	4.15.21000	4.15.22000	4.15.23000	4.15.24000	4.15.25000	4.15.26000
€	213	267	324	379	469	701

## Ganasce per PARTICOLARI TONDI / Jaws for ROUND WORKPIECE

**Art. 210** W3  
Ganascia mobile oscillante.  
Larghezza normale (W3)  
Floating movable jaw. Normal width (W3)



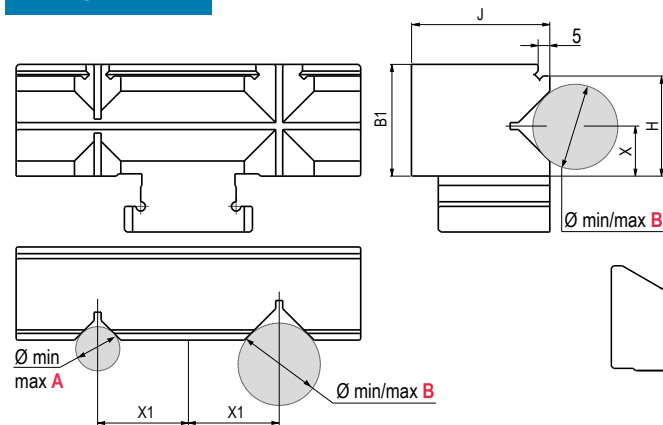
Cod.	2.21.01000	2.21.02000	2.21.03000	2.21.04000	2.21.05000	2.21.06000
€	133	168	201	238	338	521



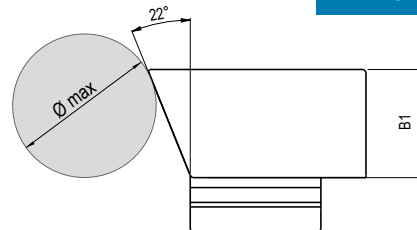
**Art. 211** W2  
Ganascia mobile oscillante.  
Larghezza ridotta (W2)  
Floating movable jaw. Narrow width (W2)

Cod.	2.21.11000	2.21.12000	2.21.13000	2.21.14000	2.21.15000	2.21.16000
€	133	168	201	238	338	521

### Art. 217



### Art. 210



### Art. 152

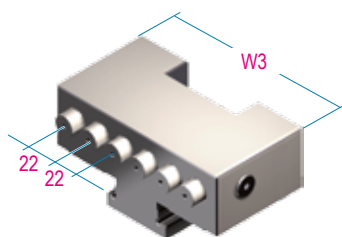
mm	1	2	3	4	5	6
W3	96	121	146	171	196	296
W2	74	94	124	144	169	194
B1	28	38	48	58	63	78
H	23	33	43	53	53	68
J	50	60	80	90	100	120
X	11,5	16,5	21,5	26,5	31,5	34
X1	25	33	39	50	50	70
Ø min / max A Art. 217	4 - 10	7 - 18	9 - 24	9 - 24	9 - 24	10 - 28
Ø min / max B Art. 217	6 - 16	9 - 24	13 - 38	15 - 40	15 - 42	18 - 46
Ø min / max Art. 152			<b>A richiesta</b>	<b>On request</b>		
Ø max Art. 210	35	50	65	80	85	105

# Ganasce MOBILI OLEODINAMICHE / HYDRAULIC MOVABLE jaws

Tipo (grandezza) morsa / Vise (type) size

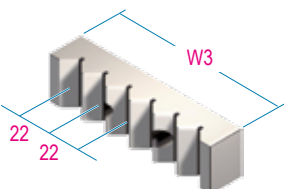
## Art. 188

Ganascia mobile oscillante con pistoni idraulici indipendenti. Larghezza normale  
 Floating movable jaw with independent hydraulic pistons. Normal width



## Art. 254

Inserti prismatici per ganasce fisse con piastre piane. Larghezza normale  
 Prismatic insert for straight fixes jaws. Normal width



Utilizzabili anche con ganasce mobili oleodinamiche Art. 188  
 Used also for hydraulic movable jaws Art. 188

Cod.	2.18.81000	2.18.82000	2.18.83000	2.18.84000	2.18.85000	2.18.86000
€	321	448	541	635	945	1.334



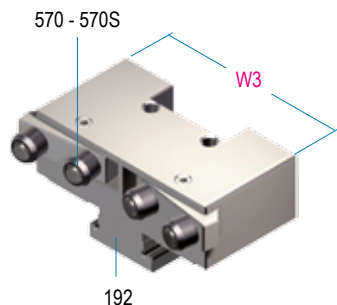
### Art.188 + Art. 254

Da utilizzare insieme per il serraggio di pezzi tondi  
 To be used together for round workpieces clamping

Cod.	1.25.41000	1.25.42000	1.25.43000	1.25.44000	1.25.45000	1.25.46000
€	149	149	200	200	297	398

## Art. 192

Ganascia mobile oscillante con 2 segmenti oscillanti e puntali sferici lisci.  
 Floating movable jaw with two floating elements and spherical smooth points.



Per serraggio di particolari irregolari  
 For irregular workpieces clamping

## Art. 192S

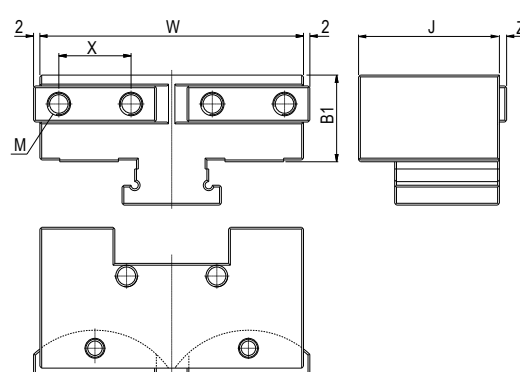
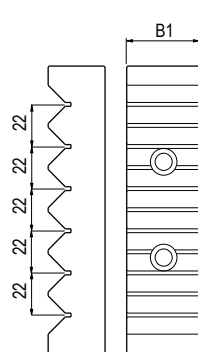
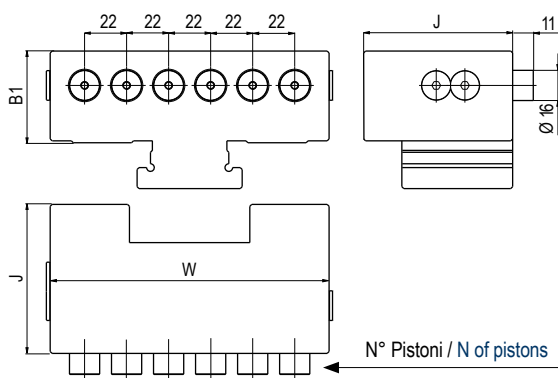
Ganascia mobile oscillante con 2 elementi oscillanti e puntali sferici zigrinati.  
 Floating movable jaw with two floating elements and spherical serrated points.

Cod.	4.19.21000	4.19.22000	4.19.23000	4.19.24000	4.19.25000	4.19.26000
€	397	509	608	676	862	1.142

## Art. 188

## Art. 254

## Art. 192



Art.	1	2	3	4	5	6
W3	96	121	146	171	196	296
J	48	58	78	88	98	118
B1	28	38	48	58	63	78
X	30	40	40	40	60	60
M	M10	M12	M12	M12	M16	M16
N	4	4	6	7	8	12
Z	3	4	4	4	7	7



## PARALLELE MODULARI MAGNETICHE AD INNESTO RAPIDO QUICK MAGNETIC MODULAR PARALLEL PLATES

Queste piastre d'appoggio modulari parallele sono una ulteriore opportunita' del sistema modulare Gerardi. Esso consente infatti il posizionamento rapido e preciso di parallele piane o angolari per la lavorazione di pezzi piatti da forare e/o filettare.

### Nessun problema di magnetismo sui trucioli

The modular bearing parallelsplates are a further opportunity of the Gerardi modular system. It allows in fact the quick and accurate positioning of straight or angular parallels plates to machine (milling, drilling and tapping) flat pieces of any size and dimension without disassembling or positioning the fixture again.  
**No problem with chips magnetic**

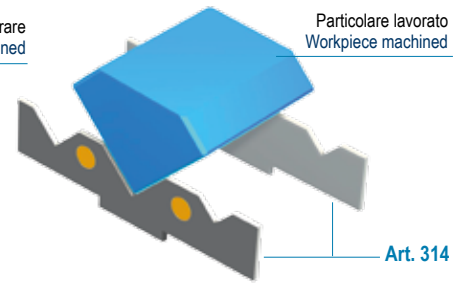
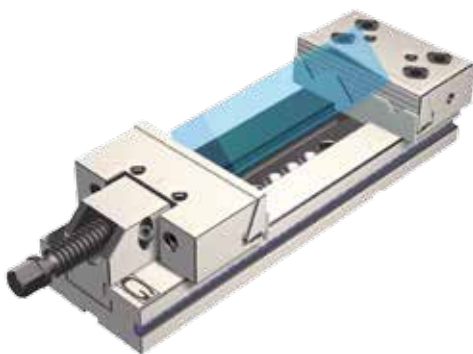
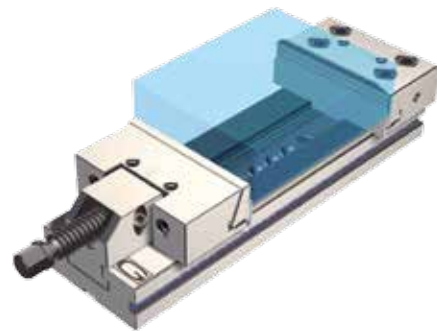
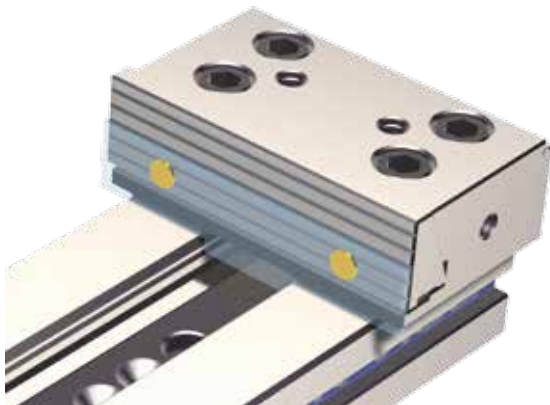
#### VANTAGGI:

- Rapidita' e precisione di installazione.
  - Risparmio rispetto alla sostituzione della ganaschia intera.
  - Minori ingombri e costi rispetto alle parallele standard.
  - Usiamo parallele magnetiche con piastre ganasce avvitate
- Naturalmente tutti i componenti sono in acciaio speciale per molle e rettificati con tolleranze centesimali.

#### ADVANTAGES:

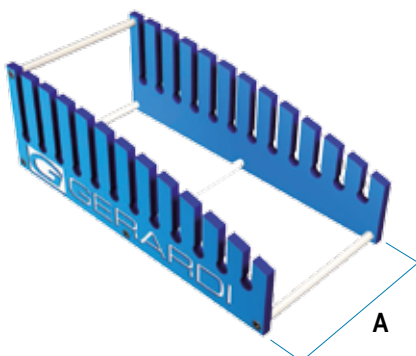
- Quick and accurate positioning.
  - Saving with respect to the substitution of the whole jaw.
  - Space and money saving with respect to the standard parallel plates.
  - Use magnetic plates with jaw plates completely tightened
- Of course each component is made of hardened and ground spring steel and the accuracy is within 0,02 mm.

## ESEMPI DI APPLICAZIONE - TYPICAL ARRANGEMENTS



### Art. 317

Rastrelliera per piastre parallele magnetiche piane e angolari  
 Rak for straight and angular parallels magnetic plates



Per morse tipo (grandezza) da 1 a 6  
 For vises (type) size 1 ÷ 6

A	60	70	80	100	120	150
Cod.	4.31.71000	4.31.72000	4.31.73000	4.31.74000	4.31.75000	4.31.76000
€	<b>86</b>					

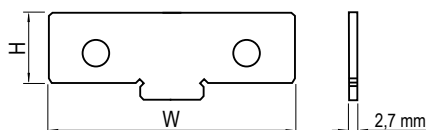
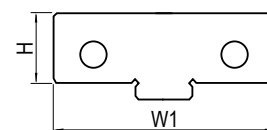
**Risparmio del 33 % sulla rastrelliera Art. 317 (Vuota) se acquistata insieme al set piccolo o grande di parallele magnetiche piane o angolari!**

**Save 33 % purchasing the rack Art. 317 Together with the small or big set of straight magnetic parallels plates !**

Tipo (grandezza) morsa / Vise (type) size

**1**
**2**
**3**
**4**
**5**
**6**
**Art. 313**

 Coppia di piastre parallele magnetiche piane  
 Pair of straight parallels magnetic plates

**Art. 313**

**Art. 313R**

**Art. 313**

W	100	125	150	175	200	300
H	23	33	43	53	53	68
Cod.	4.31.31000	4.31.32000	4.31.33000	4.31.34000	4.31.35000	4.31.36000
€	58	75	95	111	126	143

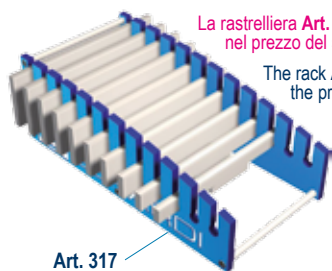
**Art. 313R**

W1	74	94	124	144	169	194
H	23	33	43	53	53	68
Cod.	4.31.3R100	4.31.3R200	4.31.3R300	4.31.3R400	4.31.3R500	4.31.3R600
€	58	75	95	111	126	143

**Art. 313R**

 Coppia di piastre parallele magnetiche piane ridotte  
 Pair of straight parallels magnetic narrow plates

**Art. 310**
**Set piccolo** di piastre parallele magnetiche piane (Fino a 6 coppie)  
 Small set of straight magnetic parallels plates (Max 6 pairs)

**Art. 311**
**Set grande** di piastre parallele magnetiche piane (Fino a 10 coppie)  
 Big set of straight magnetic parallels plates (Max 10 pairs)


La rastrelliera Art. 317 (vuota) NON è inclusa nel prezzo del set. Vedi pag. 4.22

The rack Art. 317 (empty) is NOT included in the price of the set. See pag. 4.22

**Art. 310**

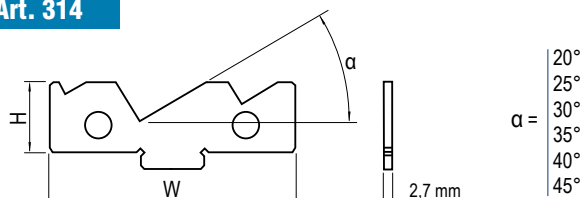
W	100	125	150	175	200	300
H Standard for INSERT GRIP	-	-	-	20	20	30
	-	-	15	25	25	35
	-	15	20	30	30	40
	-	20	25	35	35	45
	15	25	30	40	40	50
	18	28	35	45	45	54
	20	30	40	50	50	60
	23	33	43	53	53	68
	25	35	45	55	57	70
	27	37	47	57	60	75
Cod.	4.31.01000	4.31.02000	4.31.03000	4.31.04000	4.31.05000	4.31.06000
€	236	295	357	424	471	546

**Art. 311**

Cod.	-	-	4.31.13000	4.31.14000	4.31.15000	4.31.16000
€	-	-	516	607	667	792

**Art. 314**

 Coppia di piastre parallele magnetiche angolari  
 Pair of angular magnetic parallels plates

**Art. 314**

**Art. 312**
**Set di 6 coppie** di piastre parallele magnetiche angolari  
 Set of 6 pairs of angular magnetic parallels plates

W	100	125	150	175	200	300
H	23	33	43	53	53	68
Cod.	4.31.41000	4.31.42000	4.31.43000	4.31.44000	4.31.45000	4.31.46000
€	111	137	173	211	236	284
alpha	20°					
	25°					
	30°					
	35°					
	40°					
	45°					
Cod.	4.31.21000	4.31.22000	4.31.23000	4.31.24000	4.31.25000	4.31.26000
€	521	582	661	729	851	1.035

**Art. 313A**

 Coppia di magneti per parallele  
 Pair of magnets for parallels

**NON MODULARI - NOT MODULAR**

Richiedono aggiustaggio in opera - Adjustment needed before working

Cod. 4.31.3A100

€ 6

Per qualsiasi parallela speciale, raddoppiare il prezzo / For special tailor made parallel double the price

**ACCESSORI e parti staccate per ganasce / ACCESSORIES and loose parts for jaws**

Tipo (grandezza) morsa / Vise (type) size		1	2	3	4	5	6
<b>Art. 132</b> Prolunga per ganascia mobile. Larghezza normale Extension for movable jaw. Normal width	 <b>NO StandardFLEX</b>	Cod. 2.13.21000	2.13.22000	2.13.23000	2.13.24000	2.13.25000	2.13.26000
		€ 78	84	94	102	116	135
<b>Art. 134</b> Prolunga per ganascia mobile. Super ridotta Extension for movable jaw. Super narrow		Cod. 2.13.41000	2.13.42000	2.13.43000	2.13.44000	2.13.45000	2.13.46000
		€ 78	84	94	102	116	135
<b>Art. 133</b> Prolunga per ganascia fissa. Larghezza normale Extension for fixed jaw. Normal width		Cod. 2.13.31000	2.13.32000	2.13.33000	2.13.34000	2.13.35000	2.13.36000
		€ 94	101	109	116	135	149
<b>Art. 135</b> Prolunga per ganascia fissa. Ridotta e super ridotta Extension for fixed jaw. Narrow and super narrow	<b>NO StandardFLEX</b>	Cod. 2.13.51000	2.13.52000	2.13.53000	2.13.54000	2.13.55000	2.13.56000
		€ 94	101	109	116	135	149
<b>Art. 260</b> Segmento oscillante per ganasce mobili. <b>Art. 190 - 191</b> Floating segment for movable jaws. <b>Art. 190 - 191</b>		Cod. 1.26.01000	1.26.02000	1.26.03000	1.26.04000	1.26.05000	1.26.06000
		€ 44	50	50	65	95	102
<b>Art. 362</b> Molla per piastre ganasce Spring for jaw plates		Cod. 0.70.10000	0.70.20000	0.70.30000	0.70.40000	0.70.50000	0.70.60000
		€ 8	8	8	8	8	8
<b>Art. 380</b> Vite TCEI fissaggio corpo ganascia fissa Hex socket and screw for fixed jaw body		Cod. 0.01.11030	0.01.10865	0.01.11450	0.01.11660	0.01.12065	0.01.12080
		€ 6	6	7	7	9	9
<b>Art. 381</b> Vite TCEI fissaggio piastra ganascia fissa Hex socket screw for fixed plate		Cod. 0.01.10565	0.01.11240	0.01.11451	0.01.11661	0.01.12066	0.01.12081
		€ 5	5	5	5	6	6
<b>Art. 382</b> Vite TCEI fissaggio piastra ganascia mobile Hex socket and screw for movable jaw plate		Cod. 0.01.10525	0.01.10830	0.01.10840	0.01.10845	0.01.11050	0.01.11065
		€ 5	5	5	5	6	6
<b>Art. 383</b> Vite TCEI fissaggio piastra ganascia fissa doppia Hex socket and screw for double fixed jaw		Cod. 0.01.10520	0.01.10620	0.01.10820	0.01.11820	0.01.11020	0.01.11020
		€ 5	5	5	5	6	6
<b>Art. 384</b> Vite TCEI per arresto laterale Hex socket and screw for workstop		Cod. 0.06.11100	0.06.22200	0.06.33300	0.06.44400	0.06.55500	0.06.66600
		€ 5	5	5	5	6	6
<b>Art. 431</b> Rondella per arresto laterale Washer for workstop		Cod. 2.43.11000	2.43.12000	2.43.13000	2.43.14000	2.43.15000	2.43.16000
		€ 5	5	5	5	6	6
<b>Art. 440</b> Dado per arresto laterale Nut for workstop		Cod. 2.44.01000	2.44.02000	2.44.03000	2.44.04000	2.44.05000	2.44.06000
		€ 5	5	5	5	6	6
<b>Art. 570</b> Puntale sferico Liscio Smooth spherical point		Cod. 1.57.01000	1.57.02000	1.57.03000	1.57.04000	1.57.05000	1.57.06000
		€ 53	53	60	60	69	69
<b>Art. 570S</b> Puntale sferico zigrinato Serrated spherical point		Cod. 1.57.0S100	1.57.0S200	1.57.0S300	1.57.0S400	1.57.0S500	1.57.0S600
		€ 53	53	60	60	69	69

## CORPI GANASCE STANDARD / BODIES STANDARD JAWS

Tipo (grandezza) morsa / Vise (type) size

**1**   **2**   **3**   **4**   **5**   **6**
**Art. 300**

 Corpo ganascia fissa. Larghezza normale  
 Body fixed jaw. Normal width


Cod.	1.35.10000	1.35.20000	1.35.30000	1.35.40000	1.35.50000	1.35.60000
€	<b>85</b>	<b>116</b>	<b>140</b>	<b>159</b>	<b>226</b>	<b>376</b>

**Art. 301**

 Corpo ganascia fissa. Larghezza ridotta rettificata  
 Body fixed jaw. Narrow width ground

Cod.	1.35.10300	1.35.20300	1.35.30300	1.35.40300	1.35.50300	1.35.60300
€	<b>125</b>	<b>166</b>	<b>199</b>	<b>228</b>	<b>327</b>	<b>531</b>

**Art. 303**

 Corpo ganascia fissa doppia. Larghezza normale  
 Double body fixed jaw. Normal width


Cod.	1.35.10900	1.35.20900	1.35.30900	1.35.40900	1.35.50900	1.35.60900
€	<b>132</b>	<b>195</b>	<b>238</b>	<b>272</b>	<b>411</b>	<b>633</b>

**Art. 304**

 Corpo ganascia fissa doppia. Larghezza ridotta rettificata  
 Double body fixed jaw. Narrow width ground

Cod.	1.35.11200	1.35.21200	1.35.31200	1.35.41200	1.35.51200	1.35.61200
€	<b>183</b>	<b>269</b>	<b>327</b>	<b>378</b>	<b>567</b>	<b>867</b>

**Art. 306**

 Corpo ganascia mobile guidata. Larghezza normale  
 Body guided movable jaw. Normal width


Cod.	1.36.10000	1.36.20000	1.36.30000	1.36.40000	1.36.50000	1.36.60000
€	<b>85</b>	<b>116</b>	<b>140</b>	<b>159</b>	<b>226</b>	<b>376</b>

**Art. 307**

 Corpo ganascia mobile guidata. Larghezza ridotta rettificata  
 Body guided movable jaw. Narrow width ground

Cod.	1.36.11000	1.36.21000	1.36.31000	1.36.41000	1.36.51000	1.36.61000
€	<b>85</b>	<b>116</b>	<b>140</b>	<b>159</b>	<b>226</b>	<b>376</b>

**Art. 308**

 Corpo ganascia mobile oscillante. Larghezza normale  
 Body floating movable jaw. Normal width


Cod.	1.36.10400	1.36.20400	1.36.30400	1.36.40400	1.36.50400	1.36.60400
€	<b>85</b>	<b>116</b>	<b>140</b>	<b>159</b>	<b>226</b>	<b>376</b>

**Art. 309**

 Corpo ganascia mobile oscillante. Larghezza ridotta  
 Body floating movable jaw. Narrow width

Cod.	1.36.10700	1.36.20700	1.36.30700	1.36.40700	1.36.50700	1.36.60700
€	<b>85</b>	<b>116</b>	<b>140</b>	<b>159</b>	<b>226</b>	<b>376</b>

**Art. 190**









 Corpo ganascia mobile oscillante  
 con 2 segmenti oscillanti. Larghezza normale  
 Body floating movable jaw  
 with 2 floating segments. Normal width


Cod.	2.19.01000	2.19.02000	2.19.03000	2.19.04000	2.19.05000	2.19.06000
€	<b>190</b>	<b>302</b>	<b>371</b>	<b>439</b>	<b>632</b>	<b>920</b>

**4**



## CORPI GANASCE PIANE / BODY - STRAIGHT JAWS

Tipo (grandezza) morsa / Vise (type) size	1	2	3	4	5	6
<b>Art. 315</b> Corpo ganascia fissa. Larghezza normale Body fixed jaw. Normal width 	Cod. 1.35.11800	1.35.21800	1.35.31800	1.35.41800	1.35.51800	1.35.61800
	€ 85	116	140	159	226	376
<b>Art. 316</b> Corpo ganascia fissa. Larghezza ridotta rettificata Body fixed jaw. Narrow width ground 	Cod. 1.35.12100	1.35.22100	1.35.32100	1.35.42100	1.35.52100	1.35.62100
	€ 125	166	199	228	327	531
<b>Art. 318</b> Corpo ganascia fissa doppia. Larghezza normale Double body fixed jaw. Normal width 	Cod. 1.35.12700	1.35.22700	1.35.32700	1.35.42700	1.35.52700	1.35.62700
	€ 132	195	238	272	411	633
<b>Art. 319</b> Corpo ganascia fissa doppia. Larghezza ridotta rettificata Double body fixed jaw. Narrow width ground 	Cod. 1.35.13000	1.35.23000	1.35.33000	1.35.43000	1.35.53000	1.35.63000
	€ 183	269	327	378	576	867
<b>Art. 321</b> Corpo ganascia mobile guidata. Larghezza normale Body guided movable jaw. Normal width 	Cod. 1.36.11600	1.36.21600	1.36.31600	1.36.41600	1.36.51600	1.36.61600
	€ 85	116	140	159	226	376
<b>Art. 322</b> Corpo ganascia mobile guidata. Larghezza ridotta rettificata Body guided movable jaw. Narrow width ground 	Cod. 1.36.12200	1.36.22200	1.36.32200	1.36.42200	1.36.52200	1.36.62200
	€ 85	116	140	159	226	376
<b>Art. 323</b> Corpo ganascia mobile oscillante. Larghezza normale Body floating movable jaw. Normal width 	Cod. 1.36.11300	1.36.21300	1.36.31300	1.36.41300	1.36.51300	1.36.61300
	€ 85	116	140	159	226	376
<b>Art. 324</b> Corpo ganascia mobile oscillante. Larghezza ridotta rettificata Body floating movable jaw. Narrow width ground 	Cod. 1.36.11900	1.36.21900	1.36.31900	1.36.41900	1.36.51900	1.36.61900
	€ 85	116	140	159	226	376

## CORPI GANASCE PER PIASTRE INTERCAMBIABILI MANUALMENTE JAW BODIES FOR QUICK INTRCHANGEABLE JAW PLATES

<b>Art. 300A</b> Corpo ganascia fissa Fixed jaw body 	Cod. 1.30.0A100	1.30.0A200	1.30.0A300	1.30.0A400	1.30.0A500	1.30.0A600
	€ 94	133	159	176	256	434
<b>Art. 303A</b> Corpo ganascia fissa doppia Double fixed jaw body 	Cod. 1.30.3A100	1.30.3A200	1.30.3A300	1.30.3A400	1.30.3A500	1.30.3A600
	€ 153	236	286	326	494	769
<b>Art. 306A</b> Corpo ganascia mobile guidata Guided movable jaw body 	Cod. 1.30.6A100	1.30.6A200	1.30.6A300	1.30.6A400	1.30.6A500	1.30.6A600
	€ 94	133	159	176	256	434
<b>Art. 306B</b> Pattino per ganasce mobili guidate Sliding plate for guided movable jaw 	Cod. 1.30.6B100	1.30.6B200	1.30.6B300	1.30.6B400	1.30.6B500	1.30.6B600
	€ 48	61	75	80	120	137
<b>Art. 306C</b> Pattino per ganasce mobili oscillanti Sliding plate for floating movable jaw 	Cod. 1.30.6C100	1.30.6C200	1.30.6C300	1.30.6C400	1.30.6C500	1.30.6C600
	€ 49	61	75	80	120	137

**Y1 = Y - 1mm**

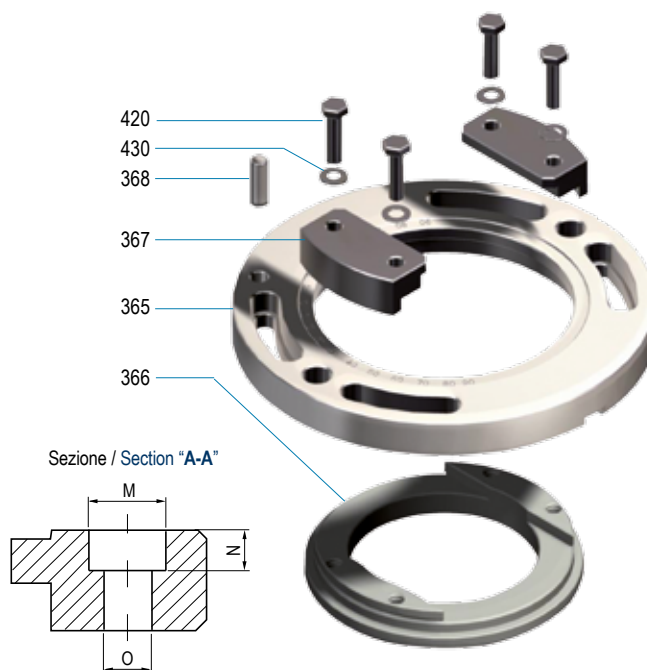
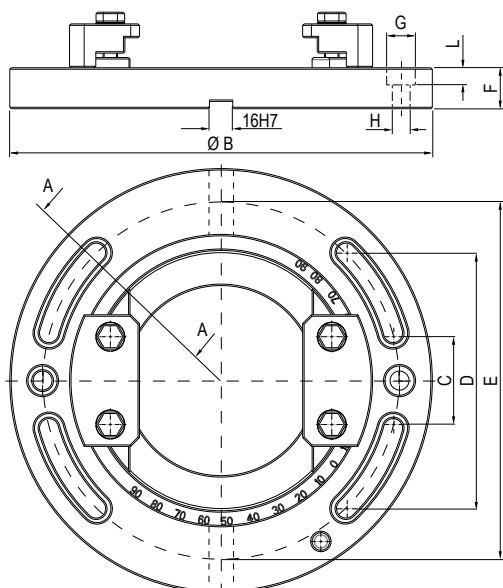
**GRUPPI PREASSEMBLATI / PRE-ASSEMBLED GROUP**

Tipo (grandezza) morsa / Vise (type) size	1	2	3	4	5	6						
<b>Art. 105</b> Base girevole Swivel base												
Ø B							180	225	290	320	370	400
C							50	52	65	80	94	116
D							112	146	175	200	220	240
E							155	195	245	272	310	340
F							20	23	28	28	34	38
G							11	14	20	20	25	25
H							6,5	8,5	12,5	12,5	17	17
L							7	10	13	13	17	17
M							12	14	20	20	26	26
N							10	13	16	16	20	20
O							6,5	8,5	12,5	12,5	16,5	16,5
kg							3,3	5,5	10,8	13	21	25,3
Cod.							2.10.51000	2.10.52000	2.10.53000	2.10.54000	2.10.55000	2.10.56000
€							<b>330</b>	<b>378</b>	<b>449</b>	<b>493</b>	<b>714</b>	<b>890</b>

Art. 105 - Senza alcuna dotazione  
Art. 105 - Supplied without accessory equipment

<b>Art. 365</b>	Anello esterno per base girevole Outer ring swivel base						
Cod.		1.81.11000	1.81.21000	1.81.31000	1.81.41000	1.81.51000	1.81.61000
€		<b>308</b>	<b>352</b>	<b>419</b>	<b>459</b>	<b>668</b>	<b>834</b>
<b>Art. 366</b>	Anello interno per base girevole Inner ring swivel base						
Cod.		1.81.12000	1.81.22000	1.81.32000	1.81.42000	1.81.52000	1.81.62000
€		<b>148</b>	<b>169</b>	<b>202</b>	<b>219</b>	<b>320</b>	<b>399</b>
<b>Art. 367</b>	Staffa per base girevole Clamp swivel base						
Cod.		1.84.10000	1.84.20000	1.84.30000	1.84.40000	1.84.50000	1.84.60000
€		<b>43</b>	<b>43</b>	<b>51</b>	<b>51</b>	<b>59</b>	<b>59</b>
<b>Art. 368</b>	Spina cilindrica per base girevole Straight pin swivel base						
Cod.		0.80.11000	0.80.21000	0.80.31000	0.80.41000	0.80.51000	0.80.61000
€		<b>5</b>	<b>5</b>	<b>7</b>	<b>7</b>	<b>7</b>	<b>9</b>
<b>Art. 420</b>	Vite esagonale per base girevole Bolt swivel base						
Cod.		0.05.08035	0.05.10035	0.05.10040	0.05.12050	0.05.14060	0.05.14060
€		<b>3</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>4</b>	<b>4</b>
<b>Art. 430</b>	Rondella per base girevole Washer swivel base						
Cod.		0.75.18416	0.75.11052	0.75.11052	0.75.11325	0.75.11525	0.75.11525
€		<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>

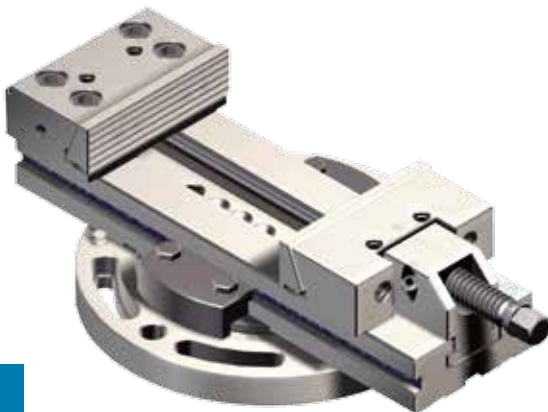
**Art. 105** Base girevole / Swivel base  
(Art. 365 + 366 + 367 + 368 + 420 + 430)



Art.	Pag.
<b>365</b>	4.27
<b>366</b>	4.27
<b>367</b>	4.27
<b>368</b>	4.27
<b>420</b>	4.27
<b>430</b>	4.27
-	-
-	-
-	-
-	-
-	-

GRUPPI PREASSEMBLATI / PRE-ASSEMBLED GROUP

4



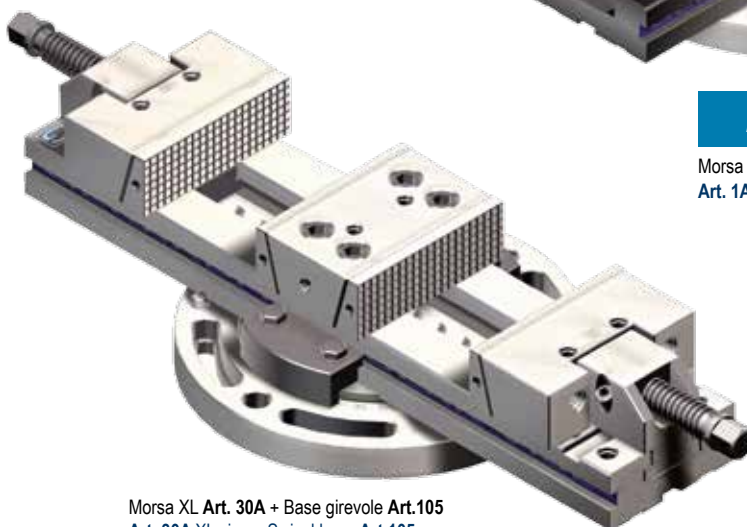
**Art. 2**

Morsa STD Art. 1 + Base girevole Art.105  
Art. 1 STD vise + Swivel base Art.105

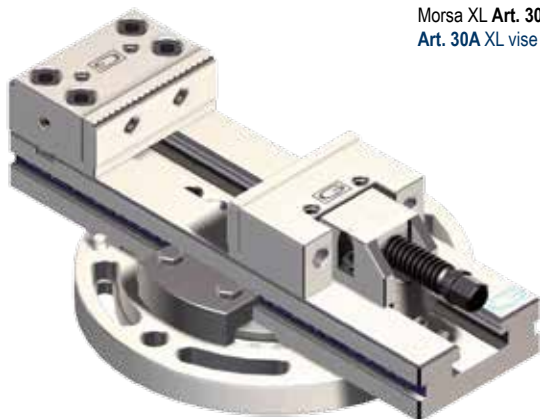


**Art. 2A**

Morsa STD Art. 1A + Base girevole Art.105  
Art. 1A STD vise + Swivel base Art.105



Morsa XL Art. 30A + Base girevole Art.105  
Art. 30A XL vise + Swivel base Art.105



Morsa STD Art. 15 + Base girevole Art.105  
Art. 15 STD vise + Swivel base Art.105



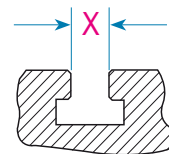
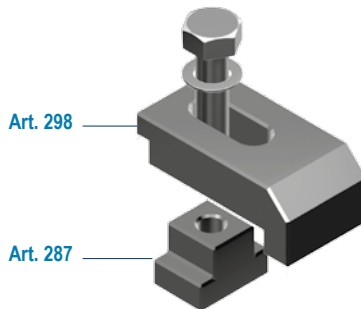
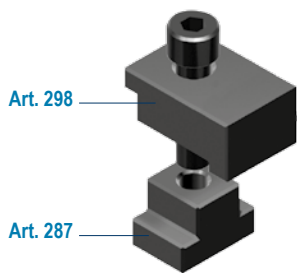
**Art. 2**

Morsa STD Art. 1 + Base girevole Art.105  
Art. 1 STD vise + Swivel base Art.105

# STAFFE DI ANCORAGGIO PER MORSE / VISE HOLDING CLAMPING

**Art. 296**

Coppia di staffe Art. 298 complete di vite e dado a T (Art. 287) / Pair of vise holding clamps Art. 298 complete of screws and T nuts (Art. 287)



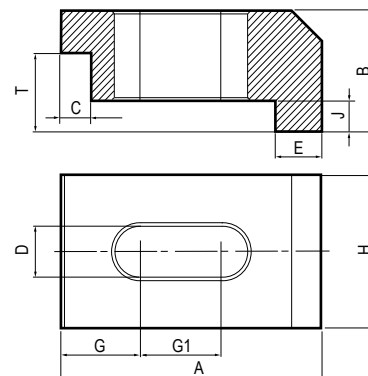
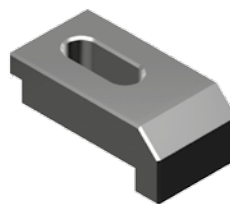
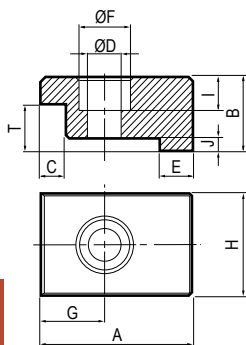
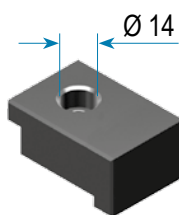
Specificare sempre la cava della vostra macchina

Always specify the machine T-slot dimension

Morse / Vises		Tipo (grandezza) morse / Vise (type) size							
STD	1	1 - 2		3 - 4		5 - 6			
FMS	1	1		2 - 3		4 - 5 - 6			
MULTIFLEX	1	1		2 - 3		--			
MULTITASKING	-	3		-					
COMPACT GRIP	-	1 - 2 - 3		-					
Staffe / Holding Clamps	1 x M8	1 x M10	1 x M12	1 x M16	2 x M12	2 x M16	3 x M12	3 x M16	
Cod.	2.29.61000 / M8	2.29.61000 / M10	2.29.61000 / M12	2.29.61000 / M16	2.29.63000 / M12	2.29.63000 / M16	2.29.65000 / M12	2.29.65000 / M16	
€	36	36	36	36	46	46	71	71	

**Art. 298**

Staffe di ancoraggio per morse (Venduta singolarmente) / Vise holding clamps (Single)


 Solo per tipo 1 x M8  
Only for type 1 x M8

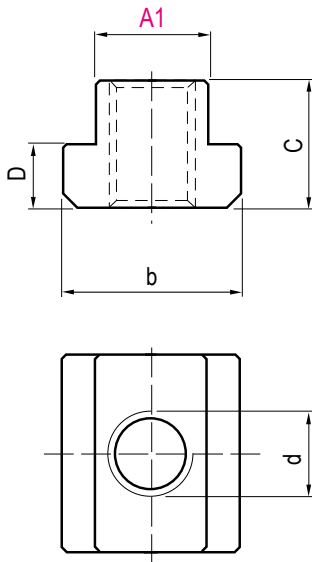
Morse / Vises		Tipo (grandezza) morse / Vise (type) size							
STD	1	1 - 2		3 - 4		5 - 6			
FMS	1	1		2 - 3		4 - 5 - 6			
MULTIFLEX	1	1		2 - 3		--			
MULTITASKING	-	3		-					
COMPACT GRIP	-	1 - 2 - 3		-					
Staffe / Holding Clamps	1 x M8	1 x M10	1 x M12	1 x M16	2 x M12	2 x M16	3 x M12	3 x M16	
A	50	50	50	50	76	76	86	86	
B	24	24	24	24	30	30	40	40	
C	6	6	6	6	6	6	10	10	
Ø D	8,5	11	13	17	13	17	13	17	
E	10	10	10	10	13	13	15	15	
Ø F	14	-	-	-	-	-	-	-	
G / G1	17	16 / 15	17,5 / 13	19 / 9	17 / 22	16 / 15	26 / 27	26 / 27	
H	34	34	34	34	42	42	50	50	
I	8	10	10	10	-	-	-	-	
J	4	4	4	4	10	10	10	10	
T ± 0,1	15	15	15	15	20	20	26	26	
Cod.	2.29.81000 / M8	2.29.81000 / M10	2.29.81000 / M12	2.29.81000 / M16	2.29.83000 / M12	2.29.83000 / M16	2.29.85000 / M12	2.29.85000 / M16	
€	11	11	11	11	16	16	27	27	



**Art. 287**

 Dadi per cave a T  
 Nuts for T slots

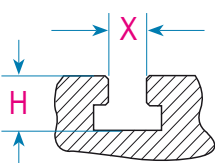
DIN 508


 In fase d'ordine,  
 completare il codice  
 specificando il  
 numero **N** di dado a T

 In the purchase order  
 specify the **N** number  
 of the T nut in the code

**Esempio / Example**

Cod. 2.28.74000 / 24


**DIN 650**

 Specificare sempre la cava  
 della vostra macchina

 Always specify  
 the machine T-slot dimension

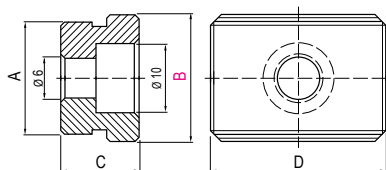
N	d	A1	b	C	D	N	d	A1	b	C	D	
01	M5 x 6	5,7	10	8	4	31	M14 x 24	23,7	40	32	16	
02	M5 x 8	7,7	13	10	5	32	M16 x 18	17,7	28	20	10	
03	M5 x 10	9,7	15	12	6	33	M16 x 20	19,7	32	24	12	
04	M6 x 8	7,7	13	10	5	34	M16 x 22	21,7	35	28	14	
05	M6 x 10	9,7	15	12	6	35	M16 x 24	23,7	40	32	16	
06	M6 x 12	11,7	18	14	7	36	M16 x 28	27,7	44	36	18	
07	M8 x 10	9,7	15	12	6	37	M16 x 30	29,7	48	38	19	
08	M8 x 12	11,7	18	14	7	38	M16 x 36	35,6	54	44	22	
09	M8 x 14	13,7	22	16	8	39	M18 x 20	19,7	32	24	12	
10	M8 x 16	15,7	25	18	9	40	M18 x 22	21,7	35	28	14	
11	M8 x 18	17,7	28	20	10	41	M18 x 24	23,7	40	32	16	
12	M10 x 12	11,7	18	14	7	42	M18 x 28	27,7	44	36	18	
13	M10 x 14	13,7	22	16	8	43	M18 x 30	29,7	48	38	19	
14	M10 x 16	15,7	25	18	9	44	M18 x 36	35,6	54	44	22	
15	M10 x 18	17,7	28	20	10	45	M20 x 22	21,7	35	28	14	
16	M10 x 20	19,7	32	24	12	46	M20 x 24	23,7	40	32	16	
17	M10 x 22	21,7	35	28	14	47	M20 x 28	27,7	44	36	18	
18	M10 x 24	23,7	40	32	16	48	M20 x 30	29,7	48	38	19	
19	M12 x 14	13,7	22	16	8	49	M20 x 36	35,6	54	44	22	
20	M12 x 16	15,7	25	18	9	50	M20 x 42	41,6	65	52	26	
21	M12 x 18	17,3	28	20	10	51	M20 x 48	47,6	75	60	30	
22	M12 x 20	19,7	32	24	12	52	M24 x 28	27,7	44	36	18	
23	M12 x 22	21,7	35	28	14	53	M24 x 30	29,7	48	38	19	
24	M12 x 24	23,7	40	32	16	54	M24 x 36	35,6	54	44	22	
25	M12 x 28	27,7	44	36	18	55	M24 x 42	41,6	65	52	26	
26	M12 x 30	29,7	48	38	19	56	M24 x 48	47,6	75	60	30	
27	M14 x 16	15,7	25	18	9	57	M30 x 36	35,6	54	44	22	
28	M14 x 18	17,7	28	20	10	58	M30 x 42	41,6	65	52	26	
29	M14 x 20	19,7	32	24	12	59	M30 x 48	47,6	75	60	30	
30	M14 x 22	21,7	35	28	14	60	M30 x 54	53,6	85	70	35	
X	0 ÷ 22			23 ÷ 36			37 ÷ 54					
Cod.	2.28.72000 / N			2.28.740000 / N			2.28.76000 / N					
€	10			18			37					

**ATTREZZI e DOTAZIONI / TOOLS and EQUIPMENT**

Tipo (grandezza) morsa / Vise (type) size	1	2	3	4	5	6
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**Art. 297**

 Coppia di tasselli di posizionamento completi di vite M5 x 10 / **Specificare sempre quota B**  
 Pair of positioning key-nuts with M5 x 10 clamping screw / **Specify always B dimension**

 Altri tipi e misure  
 fornibili a richiesta  
 Other types and dimensions  
 available on request


A	16									
B	10	12	14	<b>16</b>	18	20	22	24	28	36
C	10	10	10	10	10	12	12	12	12	12
D	25									
Cod.	2.29.71000									
€	<b>27</b>									

**Art. 291**

 Tappo incavo per alloggiamento sfera **solo per Art.1A**  
 Concave cap for sphere **only for Art.1A**


Ø	21	25	25	25	25	25
Cod.	1.29.11000	1.29.12000	1.29.13000	1.29.14000	1.29.15000	1.29.16000
€	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>3</b>

**Art. 325**

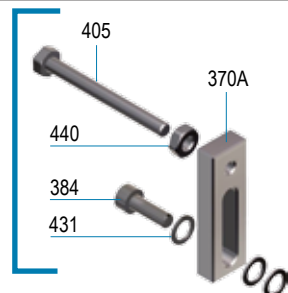
 Chiave esagonale a bussola  
 Hexagon bushing


CH	14	16	17	18	19	21
Cod.	0.09.32514	0.09.32516	0.09.32517	0.09.32518	0.09.32519	0.09.32521
€	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>	<b>40</b>
CH	22	24	27	30	32	-
Cod.	0.09.32522	0.09.32524	0.09.32527	0.09.32530	0.09.32532	-
€	<b>40</b>	<b>50</b>	<b>50</b>	<b>50</b>	<b>50</b>	-

**Art. 370**

 Arresto laterale completo  
 Complete workstop

Art. 370



Cod.	2.37.01000	2.37.03000	2.37.05000
€	<b>19</b>	<b>22</b>	<b>37</b>

**Art. 405**

 Vite principale per arresto laterale (Ricambio)  
 Main bolt for workstop (Spare)

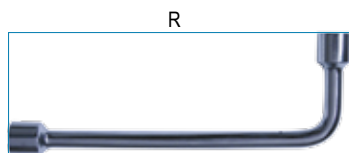
Cod.	1.77.10120	1.77.16180
€	<b>8</b>	<b>9</b>

**Art. 370A**

 Staffa per arresto laterale (Ricambio)  
 Klamps for workstop (Spare)

Cod.	2.37.0A100	2.37.0A300	2.37.0A500
€	<b>9</b>	<b>11</b>	<b>27</b>

**Art. 375**

 Chiave a pipa  
 Box wrench


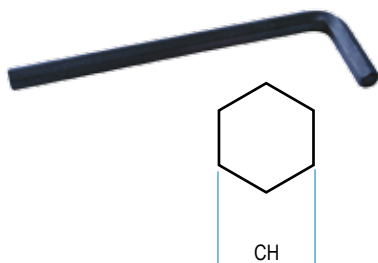
CH	12	19	22	30
R	200	250	285	480
Cod.	0.09.41160	0.09.42180	0.09.43320	0.09.43360
€	<b>20</b>	<b>23</b>	<b>28</b>	<b>49</b>

**Art. 376**

 Chiave a T  
 T wrench


CH	4	5	6	10
Cod.	0.09.21400	0.09.22500	0.09.23600	0.09.25100
€	<b>11</b>	<b>12</b>	<b>15</b>	

**Art. 377**

 Chiave esagonale serie lunga  
 Hexagon wrench long reach


CH	2	2,5	3	3,5	4	4,5
Cod.	0.09.37702	0.09.37725	0.09.37703	0.09.37735	0.09.37704	0.09.37745
€	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>	<b>5</b>
CH	5	6	7	8	9	10
Cod.	0.09.37705	0.09.37706	0.09.37707	0.09.37708	0.09.37709	0.09.37710
€	<b>6</b>	<b>6</b>	<b>6</b>	<b>7</b>	<b>7</b>	<b>8</b>
CH	12	13	14	17	19	-
Cod.	0.09.37712	0.09.37713	0.09.37714	0.09.37717	0.09.37719	-
€	<b>9</b>	<b>12</b>	<b>14</b>	<b>19</b>	<b>29</b>	-


Tipo (grandezza) morsa / Vise (type) size	1	2	3
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**Art. 357**

 Chiave dinamometrica digitale a  
 cricchetto con attacco 1/2"  
 Torque wrench digital ratchet type with  
 hexagon with 1/2" driver square


Nm	10÷135	20÷200	34÷340
Cod.	2.35.71000	2.35.72000	2.35.73000
€	<b>170</b>	<b>197</b>	<b>265</b>

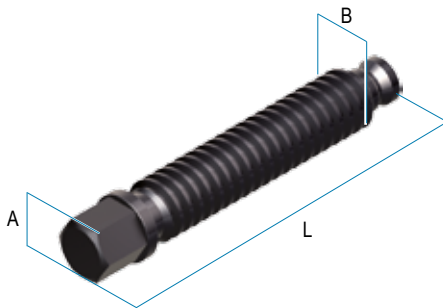
**DISPOSITIVI MECCANICI / MECHANICAL BLOCKING DEVICES**

Tipo (grandezza) morsa / Vise (type) size	1	2	3	4	5	6
<b>Art. 258</b>						
Gruppo di serraggio meccanico completo senza accessori Mechanical clamping device complete No accessories						
						
kg	0,4	1	1,9	2,9	5,3	7,8
Cod.	2.25.81000	2.25.82000	2.25.83000	2.25.84000	2.25.85000	2.25.86000
€	<b>133</b>	<b>155</b>	<b>190</b>	<b>213</b>	<b>265</b>	<b>397</b>

Per le forze di serraggio vedi pag. 4.00  
For clamping force see page 4.00

**RICAMBI / SPARE PARTS**
**Art. 360**

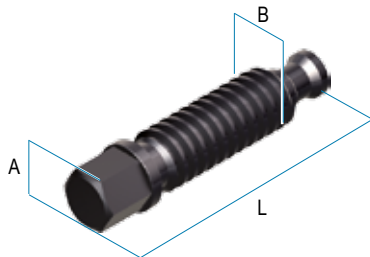
Vite di spinta. Normale  
Clamping bolt. Normal



A	12	19	22	30
B	M12	TPN 18 x 4	TPN 24 x 5	TPN 30 x 5
L	100	130	150	190
Cod.	1.90.10144	1.90.20184	1.90.30245	1.90.50366
€	<b>40</b>	<b>53</b>	<b>63</b>	<b>92</b>

**Art. 355**

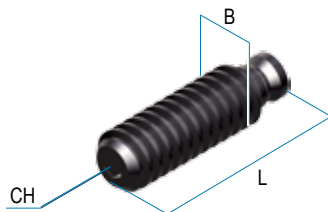
Vite di spinta. Ridotta  
Clamping bolt. Short



A	12	19	22	30
B	M12	TPN 18 x 4	TPN 24 x 5	TPN 30 x 5
L	90	100	115	150
Cod.	1.90.14144	1.90.24184	1.90.34245	1.90.54366
€	<b>40</b>	<b>53</b>	<b>63</b>	<b>92</b>

**Art. 356**

Vite di spinta. Super ridotta  
Clamping bolt. Super short



CH	6	8	10	12
B	M12	TPN 18 x 4	TPN 24 x 5	TPN 30 x 5
L	53	73	81	113
Cod.	1.35.61000	1.35.62000	1.35.60003	1.35.60005
€	<b>40</b>	<b>53</b>	<b>63</b>	<b>92</b>

**Art. 282**

Supporto di serraggio meccanico  
Mechanical clamping device support



Cod.	2.28.21000	2.28.22000	2.28.23000	2.28.24000	2.28.25000	2.28.26000
€	<b>104</b>	<b>109</b>	<b>133</b>	<b>155</b>	<b>179</b>	<b>310</b>

**Art. 410**

Grano  
Setscrew



Cod.	0.06.20810	0.06.21012	0.06.21216	0.06.21620	0.06.21630	0.06.31360
	M8 x 20	M10 x 25	M12 x 30	M12 x 40	M20 x 50	M20 x 50
	CH. 3	CH. 5	CH. 6	CH. 6	CH. 10	CH. 10
€	<b>5</b>	<b>5</b>	<b>7</b>	<b>7</b>	<b>8</b>	<b>8</b>


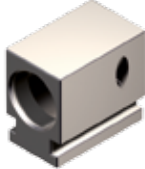
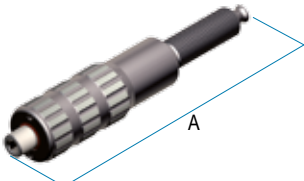


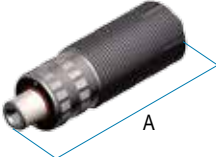

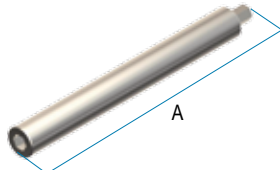
**Art. 361**

Sfera  
Ball



Cod.	1.36.11001	1.36.12002	1.36.13003	1.36.14004	1.36.15005	1.36.16006
	9/16"	3/4"	7/8"	7/8"	1 1/8"	1 1/8"
€	<b>7</b>	<b>8</b>	<b>9</b>	<b>9</b>	<b>12</b>	<b>12</b>

# SERVOCOMANDI OLEODINAMICI / HYDRAULIC SERVO UNITS

Tipo (grandezza) morsa / Vise (type) size	1	2	3	4	5	6
<b>Art. 257</b> Gruppo di serraggio a vite idraulica (Autonomo) Hydraulic hand screw clamping device (Self contained)						
Cod.	-	2.25.73000	2.25.74000	2.25.75000	2.25.76000	
€	-	625	667	816	854	
<b>Art. 284</b> Supporto di serraggio per mandrino a vite idraulica Clamping support for hydraulic spindle						
Cod.	-	2.28.43000	2.28.44000	2.28.45000	2.28.46000	
€	-	195	238	349	386	
<b>Art. 286</b> Mandrino a vite idraulica Hydraulic spindle						
Kn	-	12	20			
A	-	420	359			
Cod.	-	4.28.63000	4.28.65000			
€	-	430	468			
<b>Art. 295</b> Gruppo di serraggio a vite idraulica compatto Compact hydraulic hand screw clamping device						
Cod.	-	4.29.53000	4.29.54000	-	-	
€	-	489	530	-	-	
<b>Art. 294</b> Supporto di serraggio per mandrino compatto a vite idraulica Clamping support for compact hydraulic spindle						
Cod.	-	4.29.43000	4.29.44000	-	-	
€	-	195	237	-	-	
<b>Art. 293</b> Mandrino compatto a vite idraulica Compact hydraulic spindle						
Kn	-	10	-			
A	-	173				
Cod.	-	4.29.33000	4.29.34000	-	-	
€	-	294	-	-		
<b>Art. 290</b> Manovella per mandrino a vite idraulica Crank hydraulic spindle						
Cod.	-	0.09.73000				
€	-	50				
<b>Art. 292</b> Prolunga per Art. 290 Extension for Art. 290						
A	160 / 260					
Cod.	-	4.29.23000				
€	-	38				



# METODI ALTERNATIVI DI SERRAGGIO

## ALTERNATIVE CLAMPING OPTION

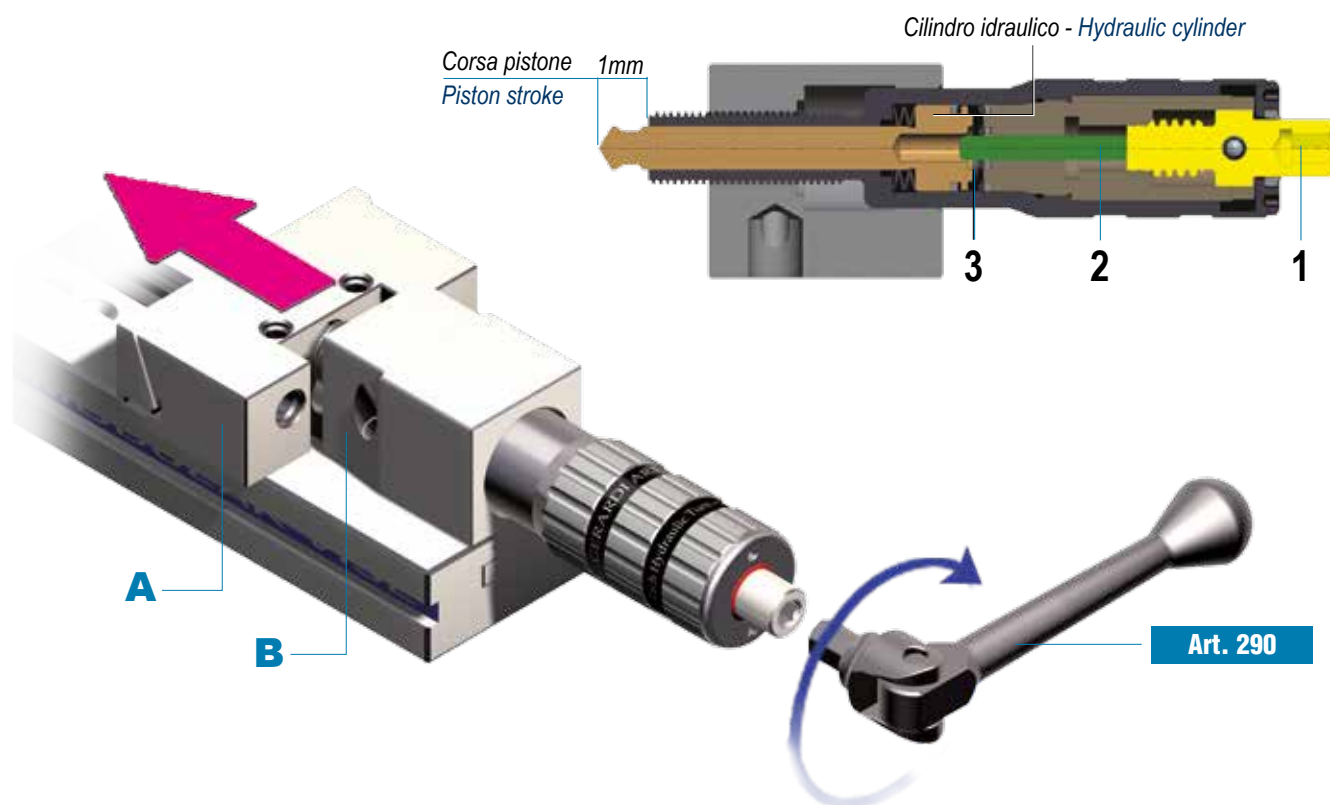
Il gruppo di serraggio a vite idraulica, è un moltiplicatore di forza manuale alternativo al gruppo di serraggio meccanico **Art. 258**; Tale dispositivo consente di applicare la medesima forza di serraggio della vite manuale con uno sforzo minore.

Il mandrino a vite idraulica è azionato manualmente tramite l'apposita manovella in dotazione **Art. 290**.

Verificare che il vano tra ganaschia mobile **A** e supporto vite **B** sia pulito, in modo che il mandrino idraulico possa scorrere liberamente senza impedimenti che potrebbero causare attriti e di conseguenza minor forza di serraggio.

Ruotare in senso orario il mandrino utilizzando la manovella in dotazione **Art. 290**, muovendo la ganaschia mobile **A** in avanti fino al contatto con il pezzo da serrare. Un' ulteriore rotazione farà scattare la frizione e di conseguenza da quel momento inizia la forza di spinta idraulica e mentre il mandrino rimane fermo, avanza la vite **1** che spinge lo stantuffo **2** nella camera d'olio **3** generando pressione. Dopo il precarico meccanico **ogni giro di manovella genera una forza K. Quando il mandrino arriva in battuta, sviluppa la massima forza possibile.**

4



**ATTENZIONE !**  
 Quando il mandrino arriva in battuta, una ulteriore pressione sviluppata sulla manovella (Art. 290) potrebbe danneggiare in modo irreparabile il moltiplicatore.

**ATTENTION !**  
 When the spindle reach the end of his stroke, a further pressure on the wrench (Art. 290) can seriously damage the pressure multiplier

The hand hydraulic clamping group is a manual power multiplier alternative to the mechanical clamping group **Art.258**. This device allows to reach the same clamping power reachable with the mechanical screw through a minimum effort. The hand hydraulic screw is manually operated by the proper wrench **Art.290**. Make sure that space between the movable jaw **A** and the main spindle support **B** is clean so that the hydraulic spindle can move freely without chips inside causing frictions and consequently less clamping power.

Turn clockwise the spindle using the wrench **Art. 290** supplied in the standard equipment until the movable jaw **A** touches workpiece. A further rotation will start the power multiplier action; at every spindle turn an increasing clamping power will be applied to the workpiece. A further rotation will make the crank slipt and the hydraulic power will start. The hydraulic spindle will stop turning but the screw **1** will move forward to push the small piston **2** into the oil chamber **3** creating an overpressure and obviously clamping force. After the mechanical pre-loading **each turn of the wrench produce a K force** **When the spindle reaches the end of its possible run it reaches its max possible power.**

# DIAGRAMMI SERRAGGIO MECCANICO CON CHIAVE DINAMOMETRICA DIAGRAMS MECHANICAL CLAMPING WITH TORQUE WRENCH



## GRUPPI DI SERRAGGIO IDRAULICI

( Art. 257 - Art.295 )

I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con le i seguenti gruppi di serraggio idraulici di varia grandezza (da 1 a 6), in funzione del momento applicato

## HYDRAULIC CLAMPING DEVICES

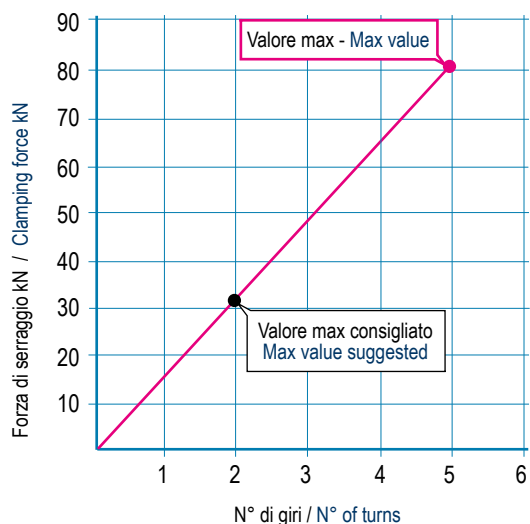
( Art. 257 - Art. 295 )

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

### Art. 257

Autonomo - Self contained

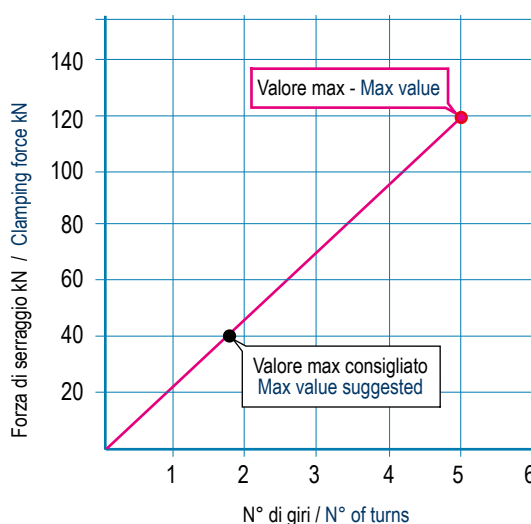
Gruppo di serraggio a Vite Idraulica TIPO 3/4  
Hydraulic hand screw clamping device TYPE



### Art. 257

Autonomo - Self contained

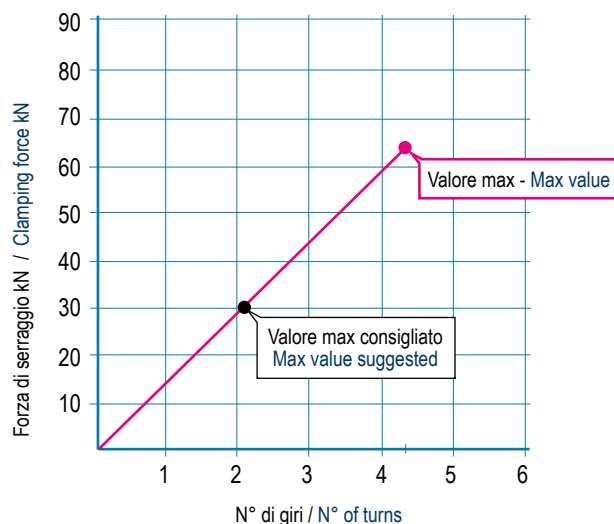
Gruppo di serraggio a Vite Idraulica TIPO 5/6  
Hydraulic hand screw clamping device TYPE



### Art. 295

Compatto - Compact

Gruppo di serraggio a Vite Idraulica TIPO 3/4  
Hydraulic hand screw clamping device TYPE

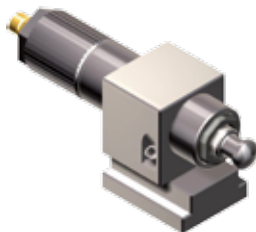


# SERVOCOMANDI OLEODINAMICI / HYDRAULIC SERVO UNITS

Tipo (grandezza) morsa / Vise (type) size	1	2	3	4	5	6
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## Art. 271

Supporto di serraggio con cilindro idraulico  
 Clamping support with hydraulic cylinder  
**SEMPLICE EFFETTO - SIMPLE EFFECT**



Cod.	2.27.11000	2.27.12000	2.27.13000	2.27.14000	2.27.15000	2.27.16000
€	304	312	321	350	504	597
Corsa Stroke	30		40			

## Art. 271D

**NEW!**

Supporto di serraggio con cilindro idraulico  
 Clamping support with hydraulic cylinder  
**DOPPIO EFFETTO - DOUBLE EFFECT**

Cod.	2.27.1D100	2.27.1D200	2.27.1D300	2.27.1D400	2.27.1D500	2.27.1D600
€	402	429	438	463	594	670
Corsa Stroke	30		40			

## Art. 283

Supporto di serraggio per cilindro idraulico  
 Clamping support for hydraulic cylinder



Cod.	2.28.31000	2.28.32000	2.28.33000	2.28.34000	2.28.35000	2.28.36000
€	104	110	119	146	214	239

## Art. 285

Cilindro idraulico a semplice effetto.  
 Serraggio idraulico e apertura meccanica  
 Hydraulic cylinder single acting.  
 Hydraulic clamping and mechanical opening



Cod.	2.28.51000	2.28.52000	2.28.53000	2.28.55000
€	194	212	212	304

## Art. 569

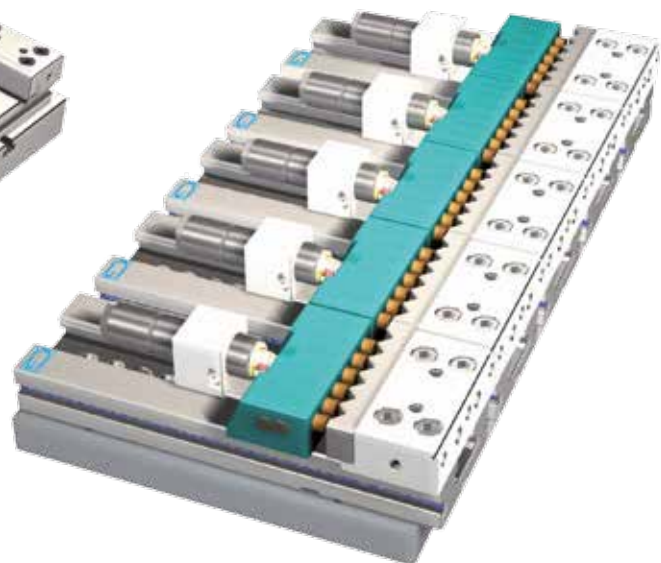
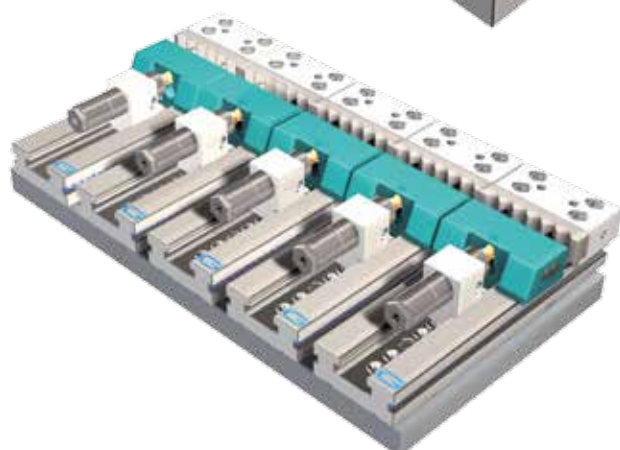
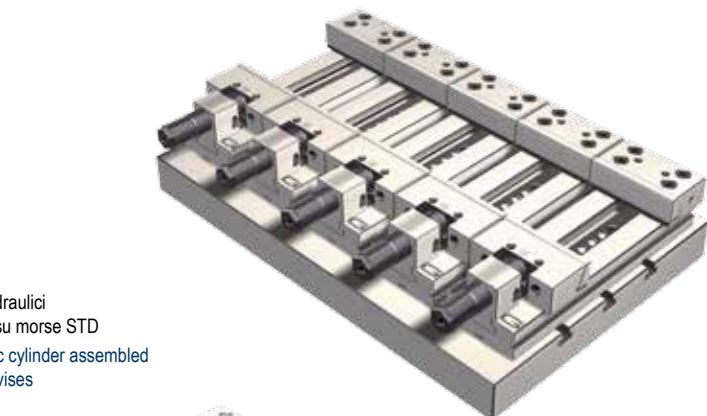
Cilindro idraulico a doppio effetto. Apertura e chiusura idrauliche  
 Hydraulic cylinder double acting. Hydraulic opening and clamping  
*Specifico per sistemi robotizzati - Specific for robotic applications*



Cod.	1.56.91000	1.56.92000	1.56.93000	1.56.95000
€	212	248	248	321

### Esempi di applicazione / Typical arrangements

Cilindri idraulici montati su morse STD  
 Hydraulic cylinder assembled on STD vises

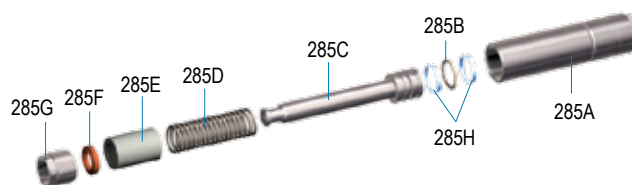


Cilindri idraulici assemblati con ganasce oleodinamiche **Art.188** per serraggi in serie di particolari tondi in verticale  
 Hydraulic cylinders assembled with oleodynamic jaws **Art.188** for clamping of multiple round workpieces in vertical

**Parti di ricambio per CILINDRI IDRAULICI / Spare part for HYDRAULIC CYLINDER**

Cilindro diametro esterno (mm) / Cylinder outside diameter (mm)	T1	T2	T3 & T4	T5 & T6
	30	40	40	50

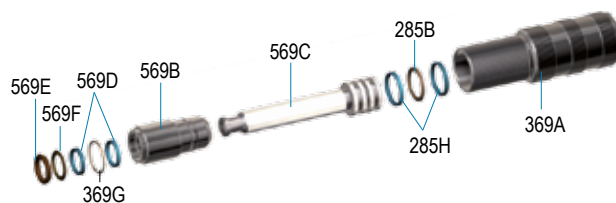
**Art. 285**

 Cilindro idraulico a semplice effetto  
 Single acting hydraulic cylinder


<b>Art. 285A</b>	Cilindro / Cylinder	Cod.	4.28.5A100	4.28.5A200	4.28.5A300	4.28.5A500
		€	145	145	145	187
<b>Art. 285B</b>	Guarnizione pistone / Piston seal	Cod.	4.28.5B100	4.28.5B200	4.28.5B300	4.28.5B500
		€	6	7	7	8
<b>Art. 285C</b>	Pistone / Piston	Cod.	4.28.5C100	4.28.5C200	4.28.5C300	4.28.5C500
		€	98	98	98	125
<b>Art. 285D</b>	Molla / Spring	Cod.	4.28.5D100	4.28.5D200	4.28.5D300	4.28.5D500
		€	11	14	14	16
<b>Art. 285E</b>	Bussola / Bushing	Cod.	4.28.5E100	4.28.5E200	4.28.5E300	4.28.5E500
		€	7	8	8	9
<b>Art. 285F</b>	Ghiera / Blocking nut	Cod.	4.28.5F100	4.28.5F200	4.28.5F300	4.28.5F500
		€	14	16	16	19
<b>Art. 285G</b>	Guarnizione / Seal	Cod.	4.28.5G100	4.28.5G200	4.28.5G300	4.28.5G500
		€	6	7	7	8
<b>Art. 285H</b>	Anello guida / Guiding ring	Cod.	4.28.5H100	4.28.5H200	4.28.5H300	4.28.5H500
		€	6	7	7	8
Diametro filettato cilindro / Cylinder O.D.			30	40	40	50
<b>Corsa / Stroke</b>			30	40	40	40
Area effettiva del cilindro / Cylinder effective area			3	7	7	9,6
Pressione max. d'esercizio / Max operating pressure: <b>bar (1 bar = 14,5 psi)</b>					450	
Pressione max. d'esercizio / Max operating pressure: <b>psi (1 psi = 0,069 bar)</b>					6525	

Cilindro diametro esterno (mm) / Cylinder outside diameter (mm)	T1	T2	T3 & T4	T5 & T6
	30	40	40	50

**Art. 569**

 Cilindro idraulico a doppio effetto  
 Double acting hydraulic cylinder


<b>Art. 569A</b>	Cilindro / Cylinder	Cod.	4.56.9A100	4.56.9A200	4.56.9A300	4.56.9A500
		€	159	214	214	242
<b>Art. 285B</b>	Guarnizione pistone / Piston seal	Cod.	4.28.5B100	4.28.5B200	4.28.5B300	4.28.5B500
		€	6	7	7	8
<b>Art. 569B</b>	Prolunga cilindro / Cylinder extension	Cod.	4.56.9B100	4.56.9B200	4.56.9B300	4.56.9B500
		€	6	7	7	8
<b>Art. 569C</b>	Pistone / Piston	Cod.	4.56.9C100	4.56.9C200	4.56.9C300	4.56.9C500
		€	94	94	94	119
<b>Art. 569D</b>	Anello guida / Guiding ring	Cod.	4.56.9D100	4.56.9D200	4.56.9D300	4.56.9D500
		€	6	7	7	8
<b>Art. 569E</b>	Raschiatore / Scraping seal	Cod.	4.56.9E100	4.56.9E200	4.56.9E300	4.56.9E500
		€	6	7	7	8
<b>Art. 569F</b>	Guarnizione cilindro / Cylinder seal	Cod.	4.56.9F100	4.56.9F200	4.56.9F300	4.56.9F500
		€	6	7	7	8
<b>Art. 569G</b>	Guarnizione / Seal	Cod.	4.56.9G100	4.56.9G200	4.56.9G300	4.56.9G500
		€	6	7	7	8
<b>Art. 285H</b>	Anello guida / Guiding ring	Cod.	4.28.5H100	4.28.5H200	4.28.5H300	4.28.5H500
		€	6	7	7	8
Diametro filettato cilindro / Cylinder O.D.			30	40	40	50
<b>Corsa / Stroke</b>			20	33	33	40
Area effettiva del cilindro / Cylinder effective area			3	7	7	9,6
Pressione max. d'esercizio / Max operating pressure: <b>bar (1 bar = 14,5 psi)</b>					450	
Pressione max. d'esercizio / Max operating pressure: <b>psi (1 psi = 0,069 bar)</b>					6525	



## COMANDO MANUALE singolo effetto / single effect MANUAL CONTROL

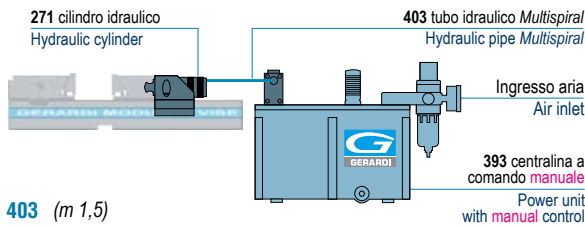
Tipo (grandezza) morsa / Vise (type) size	1	2	3	4	5	6
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### Art. 390

N° 1 serraggio  
N° 1 clamping

**MORSA NON COMPRESA**  
**VICE NOT INCLUDED**

Art. 393 + Art. 271 + Art. 403 (m 1,5)

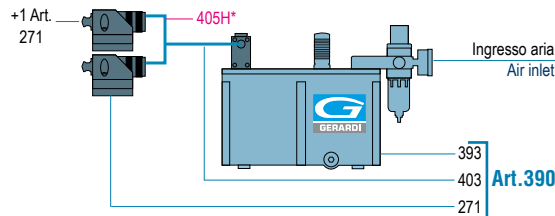


Cod.	4.39.01000	4.39.02000	4.39.03000	4.39.04000	4.39.05000	4.39.06000
€	1.371	1.381	1.389	1.415	1.564	1.649

### Art. 390/2

N° 2 serraggi contemporanei  
N° 2 simultaneously clamping

Art. 390 + n° 1 Art. 271



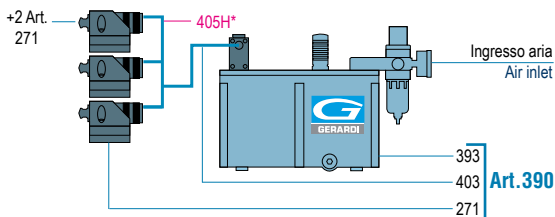
Cod.	4.39.01002	4.39.02002	4.39.03002	4.39.04002	4.39.05002	4.39.06002
€	1.660	1.677	1.693	1.747	2.042	2.216

\* Non incluso (Pag. 4.38) / Not included (Pag. 4.38) 405H\*

### Art. 390/3

N° 3 serraggi contemporanei  
N° 3 simultaneously clamping

Art. 390 + n° 2 Art. 271



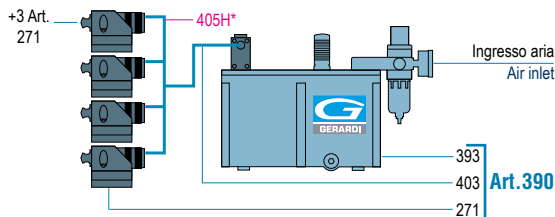
Cod.	4.39.01003	4.39.02003	4.39.03003	4.39.04003	4.39.05003	4.39.06003
€	1.947	1.972	1.999	2.078	2.521	2.785

\* Non incluso (Pag. 4.38) / Not included (Pag. 4.38)

### Art. 390/4

N° 4 serraggi contemporanei  
N° 4 simultaneously clamping

Art. 390 + n° 3 Art. 271



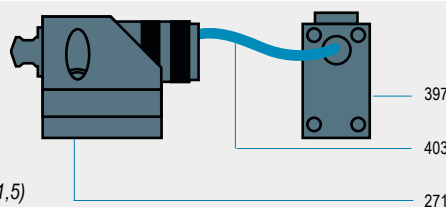
Cod.	4.39.01004	4.39.02004	4.39.03004	4.39.04004	4.39.05004	4.39.06004
€	2.235	2.270	2.304	2.408	3.002	3.351

\* Non incluso (Pag. 4.38) / Not included (Pag. 4.38)

### Art. 407

Gruppo di serraggio indipendente  
Independent clamping group

Art. 271 + Art. 397 + Art. 403 (m 1,5)

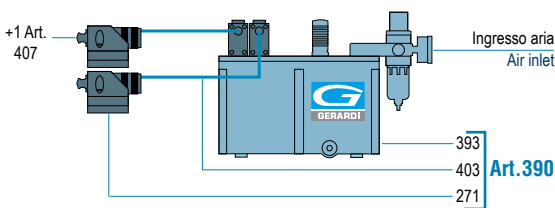


Cod.	4.40.71000	4.40.72000	4.40.73000	4.40.74000	4.40.75000	4.40.76000
€	595	603	611	637	786	874

### Art. 390A / 2

N° 2 serraggi indipendenti  
N° 2 independent clamping

Art. 390 + n° 1 Art. 407

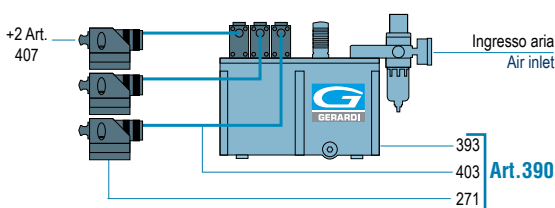


Cod.	4.39.0A102	4.39.0A202	4.39.0A302	4.39.0A402	4.39.0A502	4.39.0A602
€	1.966	1.984	2.000	2.053	2.349	2.522

### Art. 390A / 3

N° 3 serraggi indipendenti  
N° 3 independent clamping

Art. 390 + n° 2 Art. 407

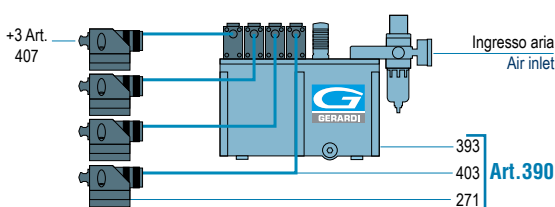


Cod.	4.39.0A103	4.39.0A203	4.39.0A303	4.39.0A403	4.39.0A503	4.39.0A603
€	2.559	2.586	2.612	2.690	3.135	3.396

### Art. 390A / 4

N° 4 serraggi indipendenti  
N° 4 independent clamping

Art. 390 + n° 3 Art. 407



Cod.	4.39.0A104	4.39.0A204	4.39.0A304	4.39.0A404	4.39.0A504	4.39.0A604
€	3.153	3.189	3.223	3.326	3.921	4.270

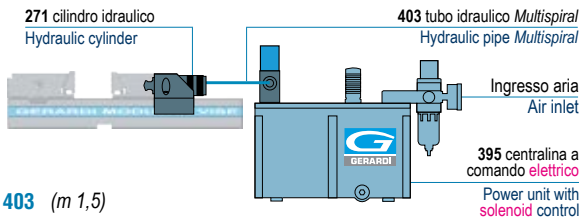
**COMANDO ELETTRICO singolo effetto da CNC / single effect SOLENOID CONTROL by CNC**

Tipo (grandezza) morsa / Vise (type) size

1	2	3	4	5	6
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**Art. 391**

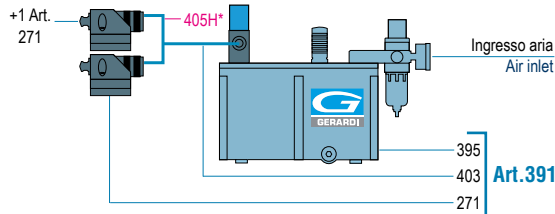
 N° 1 serraggio  
 N° 1 clamping

**MORSA NON COMPRESA**  
**WISE NOT INCLUDED**
**Art. 395 + Art. 271 + Art. 403** (m 1,5)


Cod.	4.39.11000	4.39.12000	4.39.13000	4.39.14000	4.39.15000	4.39.16000
€	1.485	1.496	1.503	1.530	1.678	1.765

**Art. 391 / 2**

 N° 2 serraggi contemporanei  
 N° 2 simultaneously clamping

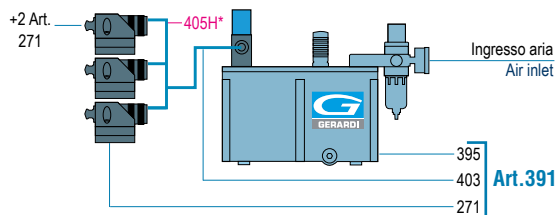
**Art. 391 + n° 1 Art. 271**


Cod.	4.39.11002	4.39.12002	4.39.13002	4.39.14002	4.39.15002	4.39.16002
€	1.775	1.792	1.808	1.862	2.157	2.332

\* Non incluso (Pag. 4.38) / Not included (Pag. 4.38)

**Art. 391 / 3**

 N° 3 serraggi contemporanei  
 N° 3 simultaneously clamping

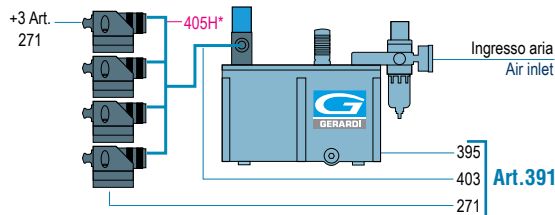
**Art. 391 + n° 2 Art. 271**


Cod.	4.39.11003	4.39.12003	4.39.13003	4.39.14003	4.39.15003	4.39.16003
€	2.061	2.088	2.113	2.193	2.637	2.899

\* Non incluso (Pag. 4.38) / Not included (Pag. 4.38)

**Art. 391 / 4**

 N° 4 serraggi contemporanei  
 N° 4 simultaneously clamping

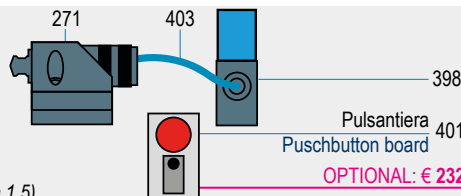
**Art. 391 + n° 3 Art. 271**


Cod.	4.39.11004	4.39.12004	4.39.13004	4.39.14004	4.39.15004	4.39.16004
€	2.763	2.384	2.419	2.523	2.771	3.465

\* Non incluso (Pag. 4.38) / Not included (Pag. 4.38)

**Art. 407A**

 Gruppo di serraggio indipendente  
 Independent clamping group

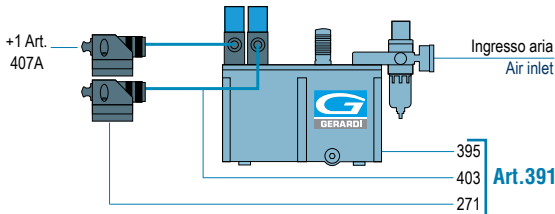
**Art. 271 + Art. 398 + Art. 403** (m 1,5)


Cod.	4.40.7A100	4.40.7A200	4.40.7A300	4.40.7A400	4.40.7A500	4.40.7A600
€	746	755	764	791	937	1.025

OPTIONAL: € 232

**Art. 391A / 2**

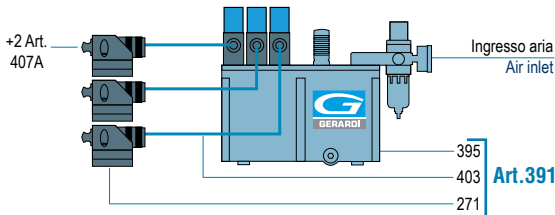
 N° 2 serraggi indipendenti  
 N° 2 independent clamping

**Art. 391 + n° 1 Art. 407A**


Cod.	4.39.1A102	4.39.1A202	4.39.1A302	4.39.1A402	4.39.1A502	4.39.1A602
€	2.233	2.248	2.266	2.319	2.615	2.790

**Art. 391A / 3**

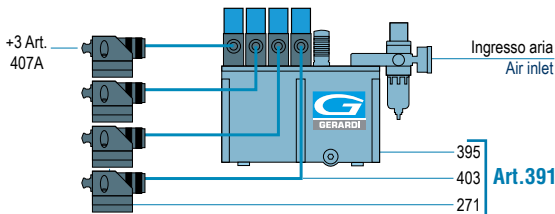
 N° 3 serraggi indipendenti  
 N° 3 independent clamping

**Art. 391 + n° 2 Art. 407A**


Cod.	4.39.1A103	4.39.1A203	4.39.1A303	4.39.1A403	4.39.1A503	4.39.1A603
€	2.277	3.004	3.028	3.109	3.552	3.815

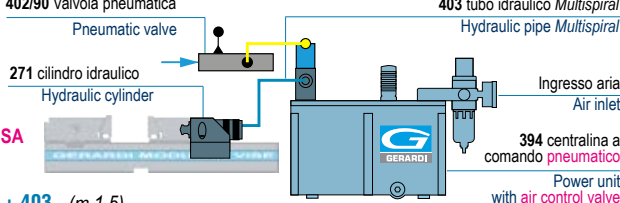
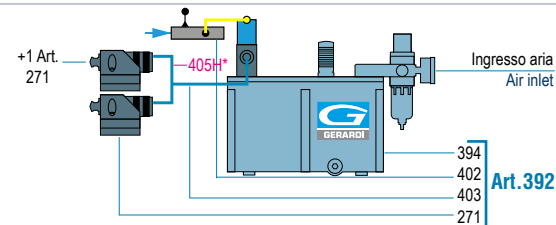
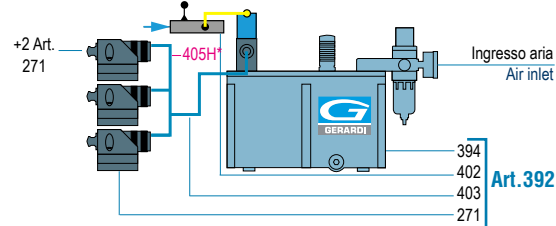
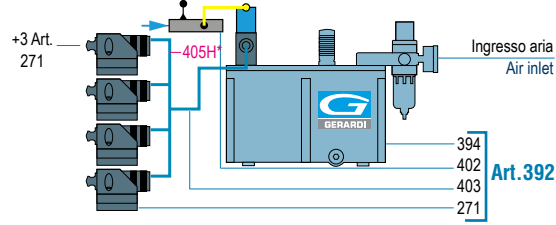
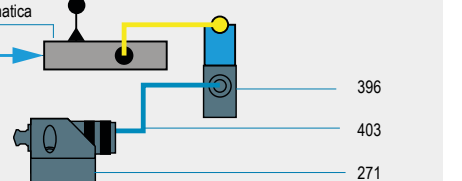
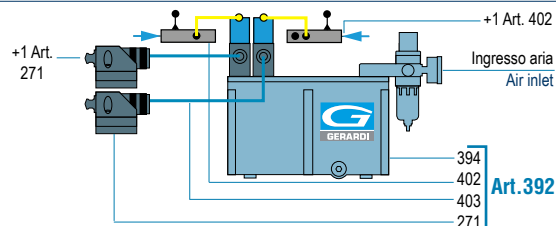
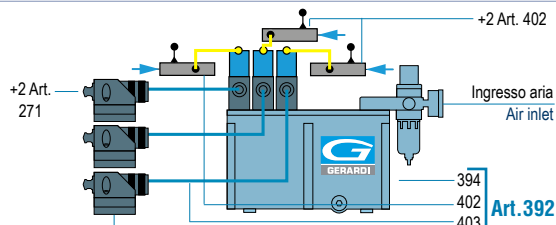
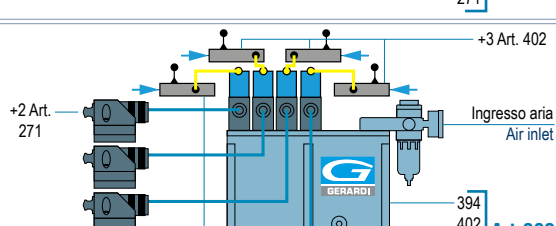
**Art. 391A / 4**

 N° 4 serraggi indipendenti  
 N° 4 independent clamping

**Art. 391 + n° 3 Art. 407A**


Cod.	4.39.1A104	4.39.1A204	4.39.1A304	4.39.1A404	4.39.1A504	4.39.1A604
€	3.723	3.758	3.792	3.897	4.489	4.838

COMANDO PNEUMATICO singolo effetto / single effect PNEUMATIC CONTROL

Tipo (grandezza) morsa / Vise (type) size	1	2	3	4	5	6
<p><b>Art. 392</b></p> <p>402/90 Valvola pneumatica Pneumatic valve</p> <p>271 cilindro idraulico Hydraulic cylinder</p> <p>403 tubo idraulico Multispiral Hydraulic pipe Multispiral</p> <p>N° 1 serraggio N° 1 clamping</p> <p><b>MORSA NON COMPRESA VISE NOT INCLUDED</b></p> <p>Art. 394 + 271 + 402 + 403 (m 1,5)</p> 	<p>Cod. 4.39.21000</p> <p>€ <b>1.445</b></p>	<p>Cod. 4.39.22000</p> <p>€ <b>1.455</b></p>	<p>Cod. 4.39.23000</p> <p>€ <b>1.464</b></p>	<p>Cod. 4.39.24000</p> <p>€ <b>1.490</b></p>	<p>Cod. 4.39.25000</p> <p>€ <b>1.638</b></p>	<p>Cod. 4.39.26000</p> <p>€ <b>1.725</b></p>
<p>Ingresso aria Air inlet</p> <p>394 centralina a comando pneumatico Power unit with air control valve</p> <p>* Non incluso (Pag. 4.38) / Not included (Pag. 4.38)</p>						
<p><b>Art. 392 / 2</b></p> <p>N° 2 serraggi contemporanei N° 2 simultaneously clamping</p> <p>Art. 392 + n° 1 Art. 271</p> 	<p>Cod. 4.39.21002</p> <p>€ <b>1.734</b></p>	<p>Cod. 4.39.22002</p> <p>€ <b>1.751</b></p>	<p>Cod. 4.39.23002</p> <p>€ <b>1.770</b></p>	<p>Cod. 4.39.24002</p> <p>€ <b>1.822</b></p>	<p>Cod. 4.39.25002</p> <p>€ <b>2.118</b></p>	<p>Cod. 4.39.26002</p> <p>€ <b>2.291</b></p>
<p>* Non incluso (Pag. 4.38) / Not included (Pag. 4.38)</p>						
<p><b>Art. 392 / 3</b></p> <p>N° 3 serraggi contemporanei N° 3 simultaneously clamping</p> <p>Art. 392 + n° 2 Art. 271</p> 	<p>Cod. 4.39.21003</p> <p>€ <b>2.022</b></p>	<p>Cod. 4.39.22003</p> <p>€ <b>2.047</b></p>	<p>Cod. 4.39.23003</p> <p>€ <b>2.074</b></p>	<p>Cod. 4.39.24003</p> <p>€ <b>2.151</b></p>	<p>Cod. 4.39.25003</p> <p>€ <b>2.597</b></p>	<p>Cod. 4.39.26003</p> <p>€ <b>2.859</b></p>
<p>* Non incluso (Pag. 4.38) / Not included (Pag. 4.38)</p>						
<p><b>Art. 392 / 4</b></p> <p>N° 4 serraggi contemporanei N° 4 simultaneously clamping</p> <p>Art. 392 + n° 3 Art. 271</p> 	<p>Cod. 4.39.21004</p> <p>€ <b>2.309</b></p>	<p>Cod. 4.39.22004</p> <p>€ <b>2.345</b></p>	<p>Cod. 4.39.23004</p> <p>€ <b>2.379</b></p>	<p>Cod. 4.39.24004</p> <p>€ <b>2.484</b></p>	<p>Cod. 4.39.25004</p> <p>€ <b>3.077</b></p>	<p>Cod. 4.39.26004</p> <p>€ <b>3.425</b></p>
<p>* Non incluso (Pag. 4.38) / Not included (Pag. 4.38)</p>						
<p><b>Art. 407B</b></p> <p>402 Valvola pneumatica Pneumatic valve</p> <p>Gruppo di serraggio indipendente Independent clamping group</p> <p>Art. 271 + 396 + 402 + 403 (m 1,5)</p> 	<p>Cod. 4.40.7B100</p> <p>€ <b>685</b></p>	<p>Cod. 4.40.7B200</p> <p>€ <b>694</b></p>	<p>Cod. 4.40.7B300</p> <p>€ <b>703</b></p>	<p>Cod. 4.40.7B400</p> <p>€ <b>729</b></p>	<p>Cod. 4.40.7B500</p> <p>€ <b>877</b></p>	<p>Cod. 4.40.7B600</p> <p>€ <b>964</b></p>
<p>* Non incluso (Pag. 4.38) / Not included (Pag. 4.38)</p>						
<p><b>Art. 392A / 2</b></p> <p>N° 2 serraggi indipendenti N° 2 independent clamping</p> <p>Art. 392 + n° 1 Art. 407B</p> 	<p>Cod. 4.39.2A102</p> <p>€ <b>2.359</b></p>	<p>Cod. 4.39.2A202</p> <p>€ <b>2.380</b></p>	<p>Cod. 4.39.2A302</p> <p>€ <b>2.397</b></p>	<p>Cod. 4.39.2A402</p> <p>€ <b>2.457</b></p>	<p>Cod. 4.39.2A502</p> <p>€ <b>2.829</b></p>	<p>Cod. 4.39.2A602</p> <p>€ <b>3.004</b></p>
<p>* Non incluso (Pag. 4.38) / Not included (Pag. 4.38)</p>						
<p><b>Art. 392A / 3</b></p> <p>N° 3 serraggi indipendenti N° 3 independent clamping</p> <p>Art. 392 + n° 2 Art. 407B</p> 	<p>Cod. 4.39.2A103</p> <p>€ <b>2.746</b></p>	<p>Cod. 4.39.2A203</p> <p>€ <b>2.770</b></p>	<p>Cod. 4.39.2A303</p> <p>€ <b>2.796</b></p>	<p>Cod. 4.39.2A403</p> <p>€ <b>2.872</b></p>	<p>Cod. 4.39.2A503</p> <p>€ <b>3.302</b></p>	<p>Cod. 4.39.2A603</p> <p>€ <b>3.556</b></p>
<p>* Non incluso (Pag. 4.38) / Not included (Pag. 4.38)</p>						
<p><b>Art. 392A / 4</b></p> <p>N° 4 serraggi indipendenti N° 4 independent clamping</p> <p>Art. 392 + n° 3 Art. 407B</p> 	<p>Cod. 4.39.2A104</p> <p>€ <b>3.396</b></p>	<p>Cod. 4.39.2A204</p> <p>€ <b>3.430</b></p>	<p>Cod. 4.39.2A304</p> <p>€ <b>3.464</b></p>	<p>Cod. 4.39.2A404</p> <p>€ <b>3.564</b></p>	<p>Cod. 4.39.2A504</p> <p>€ <b>4.135</b></p>	<p>Cod. 4.39.2A604</p> <p>€ <b>4.471</b></p>
<p>* Non incluso (Pag. 4.38) / Not included (Pag. 4.38)</p>						

# ACCESSORI e RICAMBI ACCESSORIES and SPARE PARTS

**N.B. Le centraline sono fornite senza olio**  
**N.B The power units are supplied without oil**

## Art. 393

Centralina a comando **manuale singolo**  
Pressione max 450bar  
Con mantenimento e ripristino automatico della pressione desiderata

Power unit with **single manual** control  
Max pression 450bar  
Automatic retention and reset of desired pressure



Cod. 4.39.34500

€ 991

## Art. 397

Blocco modulare per comando **manuale** aggiuntivo per ogni morsa extra

Ingresso aria (Ø 8 - 7bar)  
Air inlet (Ø 8 - 7bar)



Cod. 4.39.70000

€ 173

## Art. 397B

Blocco base per comando **manuale**  
Base block for **manual** control

Ingresso aria (Ø 8 - 7bar)  
Air inlet (Ø 8 - 7bar)



Cod. 4.39.7B000

€ 168

## Art. 394

Centralina a comando **pneumatico remoto**  
(Tramite Art. 402 extra) - Pressione max 450bar  
Con mantenimento e ripristino automatico della pressione desiderata

Power unit with **remote pneumatic** control  
(Through Art. 402 extra) - Max pression 450bar  
Automatic retention and reset of desired pressure



Cod. 4.39.44500

€ 991

Ingresso aria (Ø 8 - 7bar)  
Air inlet (Ø 8 - 7bar)



Ingresso aria (Ø 8 - 7bar)  
Air inlet (Ø 8 - 7bar)



## Art. 396

Blocco modulare per comando **pneumatico** aggiuntivo per ogni morsa extra

Modular block for **pneumatic** control for each extra vise



Cod. 4.39.60000

€ 191

## Art. 396B

Blocco base per comando **pneumatico**  
Base block for **pneumatic** control

Cod. 4.39.6B000

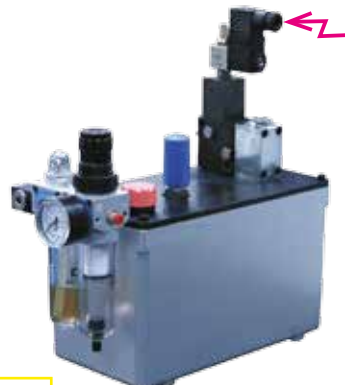
€ 186



## Art. 395

Centralina a comando **elettrico**  
Pressione max 450bar  
Con mantenimento e ripristino automatico della pressione desiderata

Power unit with **electrical** control  
Max pression 450bar  
Automatic retention and reset of desired pressure



Cod. 4.39.54500

€ 1.108

Su richiesta:  
12V / 24V / ...V  
On request:  
12V / 24V / ...V

Ingresso aria (Ø 8 - 7bar)  
Air inlet (Ø 8 - 7bar)



Su richiesta:  
12V / 24V / ...V  
On request:  
12V / 24V / ...V

Ingresso aria (Ø 8 - 7bar)  
Air inlet (Ø 8 - 7bar)



## Art. 398

Blocco modulare per comando **elettrico** aggiuntivo per ogni morsa extra

Modular block for **electric** control for each extra vise



Cod. 4.39.80000

€ 334

## Art. 398B

Blocco base per comando **pneumatico**  
Base block for **pneumatic** control

Cod. 4.39.8B000

€ 329



## COMANDO MANUALE doppio effetto / double effect MANUAL CONTROL

Tipo (grandezza) morsa / Vise (type) size	1	2	3	4	5	6
---	---	---	---	---	---	---

**Art. 390B**

N° 1 serraggio  
N° 1 clamping

**MORSA NON COMPRESA**  
**WISE NOT INCLUDED**

Art.393D + Art.271D + Art.403 (m 1,5)

271D cilindro idraulico doppio effetto  
double effect hydraulic cylinder

403 tubo idraulico Multispiral  
Hydraulic pipe Multispiral

Ingresso aria  
Air inlet

393D centralina a comando manuale  
Power unit with manual control

Cod.	4.39.0B100	4.39.0B200	4.39.0B300	4.39.0B400	4.39.0B500	4.39.0B600
€	1573	1600	1609	1634	1765	1841

**Art. 390B/2**

N° 2 serraggi contemporanei  
N° 2 simultaneously clamping

Art. 390B + n° 1 Art.271D

+1 Art. 271D

405H\*

Ingresso aria  
Air inlet

393D

403

271D

Art.390B

Cod.	4.39.0B102	4.39.0B202	4.39.0B302	4.39.0B402	4.39.0B502	4.39.0B602
€	1880	1932	1948	2002	2260	2416

\* Non incluso (Pag. 4.38) / Not included (Pag. 4.38)

**Art. 390B/3**

N° 3 serraggi contemporanei  
N° 3 simultaneously clamping

Art. 390B + n° 2 Art.271D

+2 Art. 271D

405H\*

Ingresso aria  
Air inlet

393D

403

271D

Art.390B

Cod.	4.39.0B103	4.39.0B203	4.39.0B303	4.39.0B403	4.39.0B503	4.39.0B603
€	2186	2262	2290	2368	2757	2993

\* Non incluso (Pag. 4.38) / Not included (Pag. 4.38)

**Art. 390B/4**

N° 4 serraggi contemporanei  
N° 4 simultaneously clamping

Art. 390B + n° 3 Art.271D

+3 Art. 271D

405H\*

Ingresso aria  
Air inlet

393D

403

271D

Art.390B

Cod.	4.39.0B104	4.39.0B204	4.39.0B304	4.39.0B404	4.39.0B504	4.39.0B604
€	2492	2596	2631	2735	3255	3567

\* Non incluso (Pag. 4.38) / Not included (Pag. 4.38)

**Art. 407C**

Gruppo di serraggio indipendente  
Independent clamping group

Art.271D + Art. 403 + Art. 397D (m 1,5)

397D

403

271D

Cod.	4.40.7C100	4.40.7C200	4.40.7C300	4.40.7C400	4.40.7C500	4.40.7C600
€	1119	1154	1165	1201	1379	1486

**Art. 390C / 2**

N° 2 serraggi indipendenti  
N° 2 independent clamping

Art. 390B + n° 1 Art. 407C

+1 Art. 407C

Ingresso aria  
Air inlet

393D

403

271D

Art.390B

Cod.	4.39.0C102	4.39.0C202	4.39.0C302	4.39.0C402	4.39.0C502	4.39.0C602
€	2396	2449	2465	2518	2777	2933

**Art. 390C / 3**

N° 3 serraggi indipendenti  
N° 3 independent clamping

Art. 390B + n° 2 Art. 407C

+2 Art. 407C

Ingresso aria  
Air inlet

393D

403

271D

Art.390B

Cod.	4.39.0C103	4.39.0C203	4.39.0C303	4.39.0C403	4.39.0C503	4.39.0C603
€	3218	3297	3323	3401	3791	4024

**Art. 390C / 4**

N° 4 serraggi indipendenti  
N° 4 independent clamping

Art. 390B + n° 3 Art. 407C

+3 Art. 407C

Ingresso aria  
Air inlet

393D

403

271D

Art.390B

Cod.	4.39.0C104	4.39.0C204	4.39.0C304	4.39.0C404	4.39.0C504	4.39.0C604
€	4040	4145	4180	4283	4804	5116



COMANDO ELETTRICO doppio effetto da CNC / double effect SOLENOID CONTROL by CNC

Tipo (grandezza) morsa / Vise (type) size

1

2

3

4

5

6

**Art. 391B**

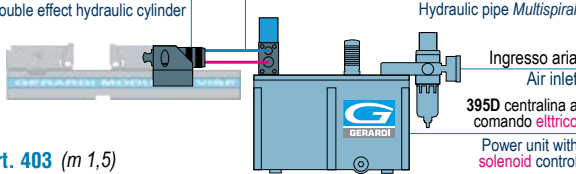
271D  
cilindro idraulico doppio effetto  
double effect hydraulic cylinder

403 tubo idraulico Multispiral  
Hydraulic pipe Multispiral

N° 1 serraggio  
N° 1 clamping

**MORSA NON COMPRESA**  
**WISE NOT INCLUDED**

Art. 395D + Art.271D + Art. 403 (m 1,5)



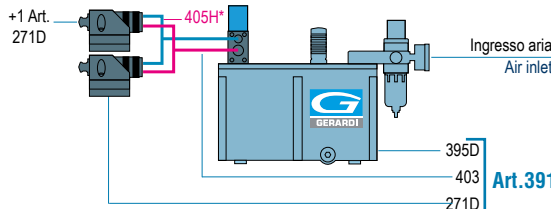
Cod. 4.39.1B100 4.39.1B200 4.39.1B300 4.39.1B400 4.39.1B500 4.39.1B600

€ 1687 1716 1723 1749 1879 1956

**Art. 391B / 2**

N° 2 serraggi contemporanei  
N° 2 simultaneously clamping

Art. 391B + n° 1 Art.271D



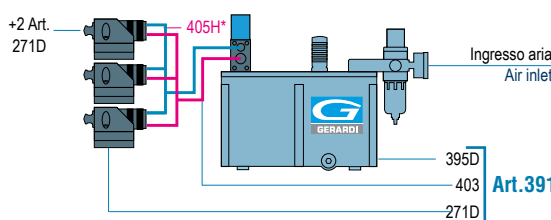
Cod. 4.39.1B102 4.39.1B202 4.39.1B302 4.39.1B402 4.39.1B502 4.39.1B602

€ 1995 2047 2063 2117 2376 2532

**Art. 391B / 3**

N° 3 serraggi contemporanei  
N° 3 simultaneously clamping

Art. 391B + n° 2 Art.271D



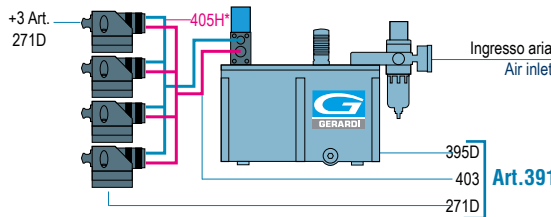
Cod. 4.39.1B103 4.39.1B203 4.39.1B303 4.39.1B403 4.39.1B503 4.39.1B603

€ 2300 2379 2404 2484 2872 3107

**Art. 391B / 4**

N° 4 serraggi contemporanei  
N° 4 simultaneously clamping

Art. 391B + n° 3 Art.271D



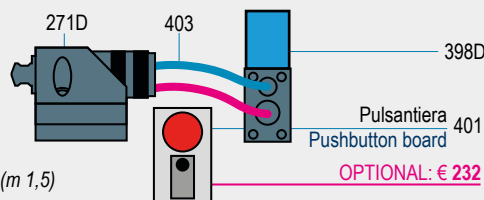
Cod. 4.39.1B104 4.39.1B204 4.39.1B304 4.39.1B404 4.39.1B504 4.39.1B604

€ 3020 2710 2746 2850 3024 3681

**Art. 407D**

Gruppo di serraggio indipendente  
Independent clamping group

Art.271D + Art. 403 + Art.398D (m 1,5)



Cod. 4.40.7D100 4.40.7D200 4.40.7D300 4.40.7D400 4.40.7D500 4.40.7D600

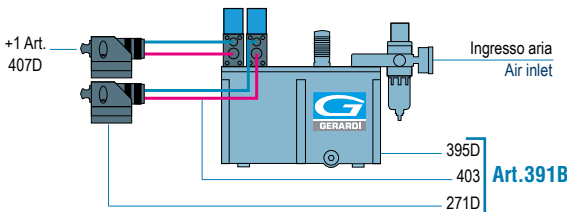
€ 1325 1361 1373 1409 1584 1691

Pulsantiera 401  
Pushbutton board  
OPTIONAL: € 232

**Art. 391C / 2**

N° 2 serraggi indipendenti  
N° 2 independent clamping

Art. 391B + n° 1 Art. 407D



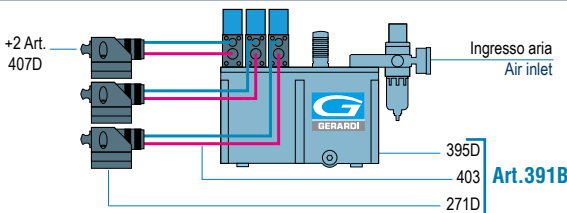
Cod. 4.39.1C102 4.39.1C202 4.39.1C302 4.39.1C402 4.39.1C502 4.39.1C602

€ 2663 2713 2732 2785 3044 3200

**Art. 391C / 3**

N° 3 serraggi indipendenti  
N° 3 independent clamping

Art. 391B + n° 2 Art. 407D



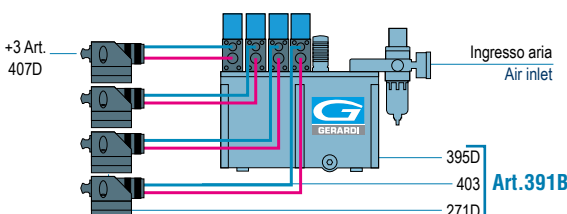
Cod. 4.39.1C103 4.39.1C203 4.39.1C303 4.39.1C403 4.39.1C503 4.39.1C603

€ 3636 3715 3739 3820 4208 4443

**Art. 391C / 4**

N° 4 serraggi indipendenti  
N° 4 independent clamping

Art. 391B + n° 3 Art. 407D



Cod. 4.39.1C104 4.39.1C204 4.39.1C304 4.39.1C404 4.39.1C504 4.39.1C604

€ 4610 4714 4749 4854 5372 5684

COMANDO PNEUMATICO doppio effetto / double effect PNEUMATIC CONTROL

Tipo (grandezza) morsa / Vise (type) size	1	2	3	4	5	6
---	---	---	---	---	---	---

**Art. 392B**

402/90 Valvola pneumatica  
Pneumatic valve

271D cilindro idraulico doppio effetto  
double effect hydraulic cylinder

403 tubo idraulico Multispiral  
Hydraulic pipe Multispiral

N° 1 serraggio  
N° 1 clamping

**MORSA NON COMPRESA  
VISE NOT INCLUDED**

Art. 394D + 271D + 402 + 403 (m 1,5)

Ingresso aria  
Air inlet

394D centralina a comando pneumatico  
Power unit with air control valve

Cod.	4.39.2B100	4.39.2B200	4.39.2B300	4.39.2B400	4.39.2B500	4.39.2B600
€	1647	1674	1683	1710	1839	1917

\* Non incluso (Pag. 4.38) / Not included (Pag. 4.38)

**Art. 392B / 2**

N° 2 serraggi contemporanei  
N° 2 simultaneously clamping

Art. 392B + n° 1 Art. 271D

+1 Art. 271D

405H\*

Ingresso aria  
Air inlet

394D  
402  
403  
271D

Art. 392B

Cod.	4.39.2B102	4.39.2B202	4.39.2B302	4.39.2B402	4.39.2B502	4.39.2B602
€	1954	2006	2025	2077	2336	2491

\* Non incluso (Pag. 4.38) / Not included (Pag. 4.38)

**Art. 392B / 3**

N° 3 serraggi contemporanei  
N° 3 simultaneously clamping

Art. 392B + n° 2 Art. 271D

+2 Art. 271D

405H\*

Ingresso aria  
Air inlet

394D  
402  
403  
271D

Art. 392B

Cod.	4.39.2B103	4.39.2B203	4.39.2B303	4.39.2B403	4.39.2B503	4.39.2B603
€	2260	2338	2364	2442	2833	3067

\* Non incluso (Pag. 4.38) / Not included (Pag. 4.38)

**Art. 392B / 4**

N° 4 serraggi contemporanei  
N° 4 simultaneously clamping

Art. 392B + n° 3 Art. 271D

+3 Art. 271D

405H\*

Ingresso aria  
Air inlet

394D  
402  
403  
271D

Art. 392B

Cod.	4.39.2B104	4.39.2B204	4.39.2B304	4.39.2B404	4.39.2B504	4.39.2B604
€	2566	2671	2705	2810	3330	3641

\* Non incluso (Pag. 4.38) / Not included (Pag. 4.38)

**Art. 407E**

Gruppo di serraggio indipendente  
Independent clamping group

Art. 271D + 396D + 402 + 403 (m 1,5)

402 Valvola pneumatica  
Pneumatic valve

396D

403

271D

Cod.	4.40.7E100	4.40.7E200	4.40.7E300	4.40.7E400	4.40.7E500	4.40.7E600
€	1243	1278	1290	1326	1502	1608

**Art. 392C / 2**

N° 2 serraggi indipendenti  
N° 2 independent clamping

Art. 392B + n° 1 Art. 407E

+1 Art. 407E

Ingresso aria  
Air inlet

394D  
402  
403  
271D

Art. 392B

Cod.	4.39.2C102	4.39.2C202	4.39.2C302	4.39.2C402	4.39.2C502	4.39.2C602
€	2790	2845	2862	2922	3258	3414

**Art. 392C / 3**

N° 3 serraggi indipendenti  
N° 3 independent clamping

Art. 392B + n° 2 Art. 407E

+1 Art. 402/90

+2 Art. 407E

Ingresso aria  
Air inlet

394D  
402  
403  
271D

Art. 392B

Cod.	4.39.2C103	4.39.2C203	4.39.2C303	4.39.2C403	4.39.2C503	4.39.2C603
€	3405	3481	3507	3583	3958	4184

**Art. 392C / 4**

N° 4 serraggi indipendenti  
N° 4 independent clamping

Art. 392B + n° 3 Art. 407E

+1 Art. 402/90

+2 Art. 407E

Ingresso aria  
Air inlet

394D  
402  
403  
271D

Art. 392B

Cod.	4.39.2C104	4.39.2C204	4.39.2C304	4.39.2C404	4.39.2C504	4.39.2C604
€	4283	4387	4421	4521	5018	5317

# ACCESSORI e RICAMBI ACCESSORIES and SPARE PARTS

**N.B. Le centraline sono fornite senza olio**  
**N.B. The power units are supplied without oil**

## Art. 393D

Centralina a comando **manuale doppio**  
Pressione max 450bar  
Con mantenimento e ripristino automatico della pressione desiderata

Power unit with **double manual** control  
Max pression 450bar  
Automatic retention and reset of desired pressure



Cod. 4.39.3D450

€ 1.171

## Art. 397D

Blocco modulare per comando **manuale** aggiuntivo per ogni morsa extra

Modular block for **manual** control for each extra vise

Ingresso aria (Ø 8 - 7bar)  
Air inlet (Ø 8 - 7bar)



Cod. 4.39.7D000

€ 379

## Art. 397C

Blocco base per comando **manuale**  
Base block for **manual** control

Ingresso aria (Ø 8 - 7bar)  
Air inlet (Ø 8 - 7bar)



Cod. 4.39.7C000

€ 438

## Art. 394D

Centralina a comando **pneumatico remoto doppio** (Tramite Art. 402 extra) - Pressione max 450bar  
Con mantenimento e ripristino automatico della pressione desiderata

Power unit with **double remote pneumatic** control (Through Art. 402 extra) - Max pression 450bar  
Automatic retention and reset of desired pressure



Cod. 4.39.4D450

€ 1.171

Ingresso aria (Ø 8 - 7bar)  
Air inlet (Ø 8 - 7bar)



Ingresso aria (Ø 8 - 7bar)  
Air inlet (Ø 8 - 7bar)



## Art. 396D

Blocco modulare per comando **pneumatico** aggiuntivo per ogni morsa extra

Modular block for **pneumatic** control for each extra vise

## Art. 396C

Blocco base per comando **pneumatico**  
Base block for **pneumatic** control

Cod. 4.39.6D000

€ 397

Cod. 4.39.6C000

€ 456

## Art. 395D

Centralina a comando **elettrico**  
Pressione max 450bar  
Con mantenimento e ripristino automatico della pressione desiderata

Power unit with **electrical** control  
Max pression 450bar  
Automatic retention and reset of desired pressure



Cod. 4.39.5D450

€ 1.288

Su richiesta:  
12V / 24V / ...V  
On request:  
12V / 24V / ...V

Ingresso aria (Ø 8 - 7bar)  
Air inlet (Ø 8 - 7bar)



Su richiesta:  
12V / 24V / ...V  
On request:  
12V / 24V / ...V

Ingresso aria (Ø 8 - 7bar)  
Air inlet (Ø 8 - 7bar)



## Art. 398D

Blocco modulare per comando **elettrico** aggiuntivo per ogni morsa extra

Modular block for **electric** control for each extra vise

Cod. 4.39.D8000

€ 540

## Art. 398C

Blocco base per comando **pneumatico**  
Base block for **pneumatic** control

Cod. 4.39.8C000

€ 599

## ACCESSORI e RICAMBI

### ACCESSORIES and SPARE PARTS

**Art. 399**

Gruppo filtro riduttore più lubrificatore  
 Compressed air preparation unit



Cod. 4.39.90000

€ 152

**Art. 400**

Pedale bistabile  
 Two positions foot pedal



Cod. 4.40.00000

€ 170

**Art. 401**

Pulsantiera per 1 azionamento  
 Puschbutton board for one control operation



Cod. 4.40.10000

€ 237

**Art. 402**

Valvola pneumatica frontale, 2 vie  
 Frontal pneumatic valve, 2 ways



Cod. 4.40.20000

€ 79

**Art. 402/90**

Distributore leva angolare a 90°, 3 vie  
 90° angular valve, 3 ways



Cod. 9.40.29000

€ 172

**Art. 405H**

Per ogni metro extra / For each extra meter: € 10

Coduttura Tubolare in acciaio zincato (m 1,0)  
 Suitable galvanized steel pipe (m 1,0)



Ø 6

Cod. 4.40.5H000

€ 9

**Art. 403**

Per ogni metro extra / For each extra meter: € 113

Tubo idraulico Multispiral 760bar completo di attacco rapido Art. 270A (m 1,5)  
 Hydraulic pipe Multispiral 760 bar complete with rapid connection Art. 270A (m 1,5)



Cod. 4.40.30000

€ 149

**Art. 404**

Manometro 400bar  
 Oil pressure gauge 400bar



Cod. 4.40.40000

€ 69

## ACCESSORI e RICAMBI ACCESSORIES and SPARE PARTS

### Art. 270A

Attacco idraulico rapido femmina  
Quick hydraulic female connection



Cod. 4.27.0A000

€ 62

### Art. 270B

Innesto idraulico rapido maschio  
Quick hydraulic male connection



Cod. 4.27.0B000

€ 42

### Art. ID03

Raccordo idraulico a "L" maschio cilindrico Ø6 - 1/4" Gas  
"L" hydraulic male parallel adaptor Ø6 - 1/4" Gas



Cod. 9.ID.03000

€ 9

### Art. ID04

Raccordo idraulico a "T" centrale maschio cilindrico Ø6 - 1/4" Gas  
"T" hydraulic male parallel adaptor Ø6 - 1/4" Gas



Cod. 9.ID.04000

€ 37

### Art. ID05

Riduzione idraulica Ø6 - 1/4" Gas  
Hydraulic straight male adaptor Ø6 - 1/4" Gas



Cod. 9.ID.05000

€ 5

### Art. 505

Pressostato 400bar  
Pressure switch 400bar



Cod. 0.50.50000

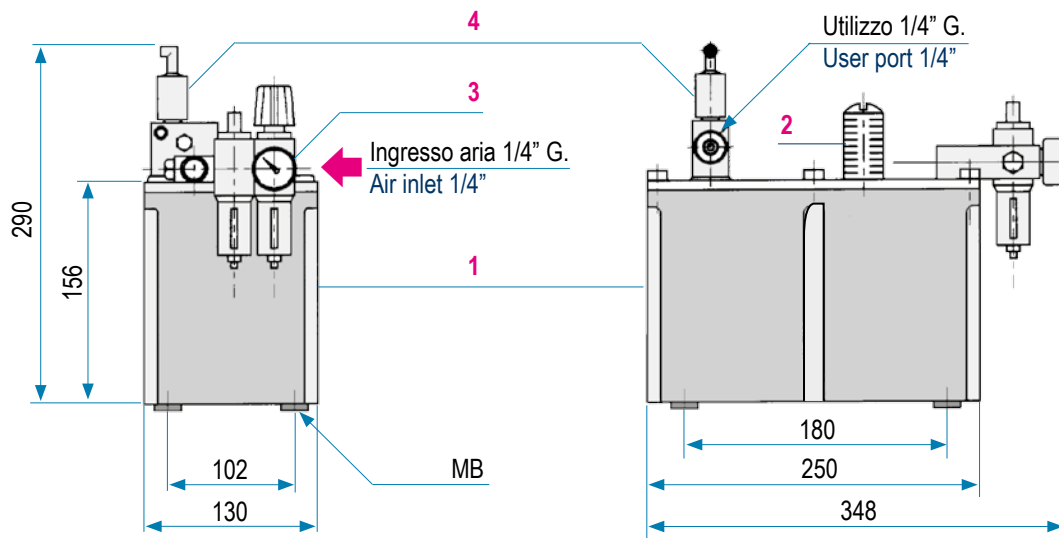
€ 198



# ISTRUZIONI INSTRUCIONS

La centralina per serraggi idraulici ed i suoi derivati, nasce per soddisfare tutte le esigenze connesse all'azionamento di cilindri oleodinamici ove sia richiesta bassa portata ed elevate pressioni. La particolare forma costruttiva della centralina permette di ottenere, in ingombri estremamente contenuti, un impianto di elevate prestazioni. L'elemento pompante utilizzato consente, grazie ai particolari criteri costruttivi, di collocare la centralina in ambienti altamente ostili come, per esempio, l'area di lavoro di macchine utensili. L'esclusivo sistema modulare di controllo del flusso idraulico permette di comandare separatamente, con una sola unità, fino a sei utilizzi distinti.

The hydropneumatic power unit for hydraulic clamping devices and its bi-products are designed to meet all needs regarding the powering of hydraulic cylinders where low flow rates and high pressures are required. The special design shape of the power unit is such that a high performance system can be implemented taking up very little space. Thanks to the special design principles, the pump section adopted allows the hydropneumatic power unit to be installed in very hostile environments, such as the work area of machine tools, etc. The unique modular hydraulic flow control system allows controlling up to 6 separate users from just the one power unit.



## CARATTERISTICHE TECNICHE

## SPECIFICATION

### Centralina tipo / Power unit type 450 T 2/3/4

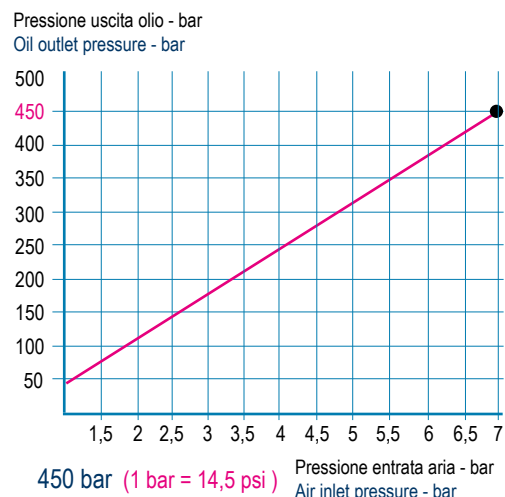
Pressione massima aria: Max permissible air pressure:	7 bar
Pressione aria consigliata: Recommended air pressure:	5,5 bar
Tipo di olio raccomandato: idraulico Recommended grade of oil: hydraulic	68 CSt
Portata Deliveries	0,9 L / 1' Litres / min
Capacità serbatoio Tank capacity	3 L
Delta massimo su pilotaggi elettrici: Max delta on electric pilot section:	+ 10% - 5%
Pressione minima su pilotaggio pneumatico: Minimum pressure on pneumatic control:	5 bar
Pressione massima consentita per eventuale pilotaggio elettroidraulico: Max pressure for electrohydraulic control:	150 bar
Numero massimo consigliato di utilizzi: Max permissible air pressure	6

La pompa nella versione base viene fornita completa di:

- serbatoio in teflon 1
- tappo di carica
- silenziatore 2
- attacco di alimentazione aria del tipo ad innesto rapido D8 3
- un blocco di comando oleodinamico 4

The pump in its basic version is supplied complete with:

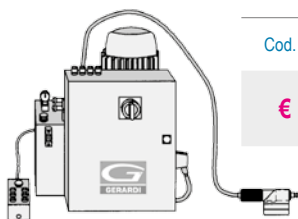
- teflon tank 1
- fill plug
- silencer 2
- quick acting air connector fitting type D8 3
- hydraulic control block 4



Tipo (grandezza) morsa / Vise (type) size

**1**
**2**
**3**
**4**
**5**
**6**
**Art. 266**

 Gruppo di serraggio con centralina oleodinamica completa apparato elettrico. **A semplice effetto**
**Art. 502 + Art. 271 + Art. 403**

 Hydraulic clamping device complete with motor-driven power unit. **Single acting**


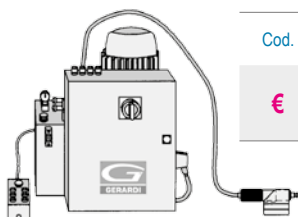
Cod.	2.26.61000	2.26.62000	2.26.63000	2.26.64000	2.26.65000	2.26.66000
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€	<b>7.026</b>	<b>7.037</b>	<b>7.046</b>	<b>7.080</b>	<b>7.286</b>	<b>7.343</b>
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**Art. 267**

 Gruppo di serraggio con centralina oleodinamica completa di apparato elettrico. **A doppio effetto**.

**Art. 503 + Art. 271 + Art. 403**

 Hydraulic clamping device complete with motor-driven power unit. **Double acting**


Cod.	2.26.71000	2.26.72000	2.26.73000	2.26.74000	2.26.75000	2.26.76000
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€	<b>7.593</b>	<b>7.604</b>	<b>7.613</b>	<b>7.648</b>	<b>7.876</b>	<b>7.966</b>
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**Art. 502**

 Centralina oleodinamica a **semplice effetto**

 (Unità elettroidraulica senza gruppo di bloccaggio **Art. 271**)

 Electric motor-driven hydraulic power unit **single acting**  
 (Without blocking device **Art. 271**)

Cod.	2.50.20000
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€	<b>6.613</b>
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**Art. 503**

 Centralina oleodinamica a **doppio effetto**

 (Unità elettroidraulica senza gruppo di bloccaggio **Art. 271**)

 Electric motor-driven hydraulic power unit **double acting**  
 (Without blocking device **Art. 271**)

Cod.	2.50.30000
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€	<b>7.180</b>
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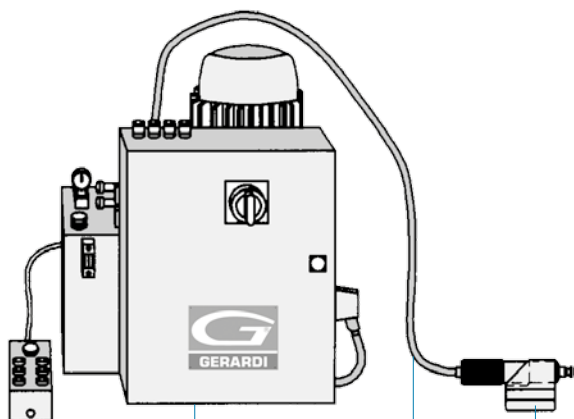
La lunghezza standard dei collegamenti elettrici e idraulici, è di 1600 mm.

Extra lunghezze saranno quotate separatamente.

**Per bloccaggi multipli chiedere la quotazione**

Standard lenght for electrical wire and high pressure hose is 1600 mm.

Extra lenght will be quoted separatly.

**For multiple clamping, ask for specific quotation**
**Art. 266**


Art. 502

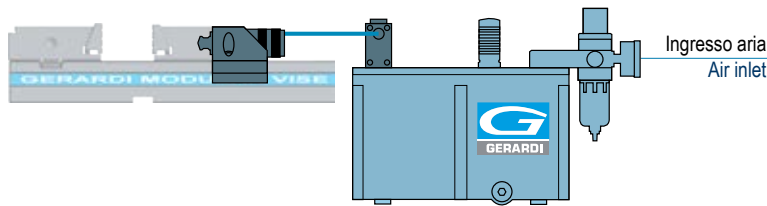
Art. 403

Art. 271

**GRUPPI DI BLOCCAGGIO CON CENTRALINA OLEODINAMICA**
**HYDRAULIC BLOCKING DEVICE WITH MOTOR DRIVEN POWER UNIT**

Tipo e caratteristiche Type and characteristics		Art. 266 - Art. 502	Art. 267 - Art. 503
		A effetto semplice Single-acting	A doppio effetto Double-acting
Pressione max d'esercizio Max opening pressure	bar	600	
	psi	8.700	
Portata Delivery	l / min	40	
Potenza motore Motor power	KW	5,5	
Massima capacità olio Max oil capacity	l / min	200	
Regolazione pressione Pressure adjustment		Pressostato	By pressure switch
Peso Weight	kg	-	-

# SERRAGGIO IDRAULICO HYDRAULIC CLAMPING



## TRAMITE GRUPPI DI SERRAGGIO PNEUMATICI E OLEODINAMICI

I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con le morse di varia grandezza (da 1 a 6), provvisti di vari dispositivi di bloccaggio idraulici, in funzione della pressione dei fluidi (aria e olio)

## THROUGH PNEUMO-HYDRAULIC AND HYDRAULIC CLAMPING DEVICES

The following diagrams give the clamping force that can be obtained with each vise type (size 1 to 6) when equipped with hydraulic blocking devices, as a function of the fluid pressure (air or oil)

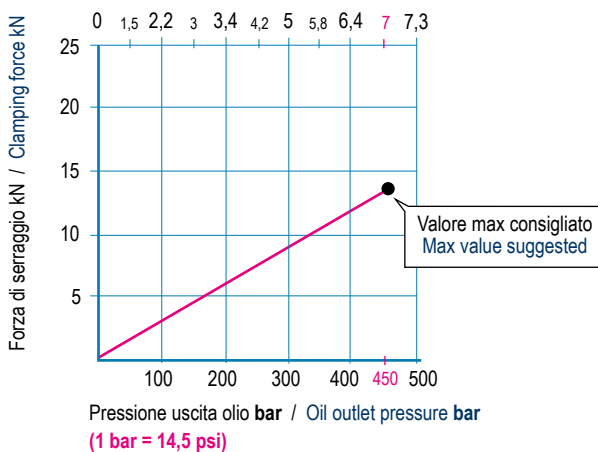
4

### MORSE MODULARI TIPO 1 MODULAR VISES TYPE 1

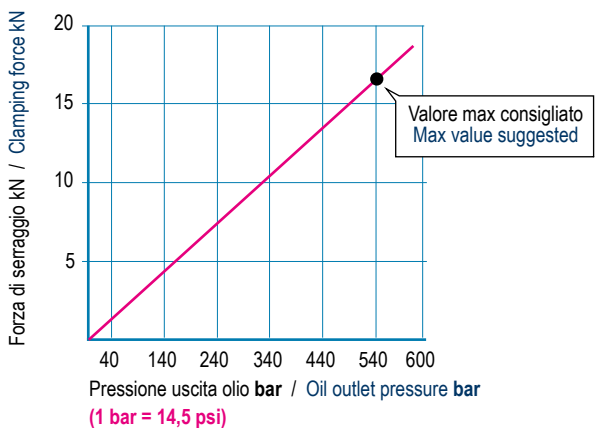
Cilindro idraulico Art. 285 - 568 - 569  
Ø interno 20 mm - Superficie efficace 3 cm<sup>2</sup>  
Hydraulic cylinder Art. 285 - 568 - 569  
Cylinder I.D. 20 mm - Effective area 3 cm<sup>2</sup>

Con moltiplicatore di pressione Art. 393 (Tipo 450)  
With pressure multiplier Art.393 (Type 450)

Pressione entrata aria bar / Air inlet pressure bar



Con centralina elettroidraulica Art. 266 - 267 - 502 - 503  
With motor driven hydraulic power unit Art. 266 - 267 - 502 - 503



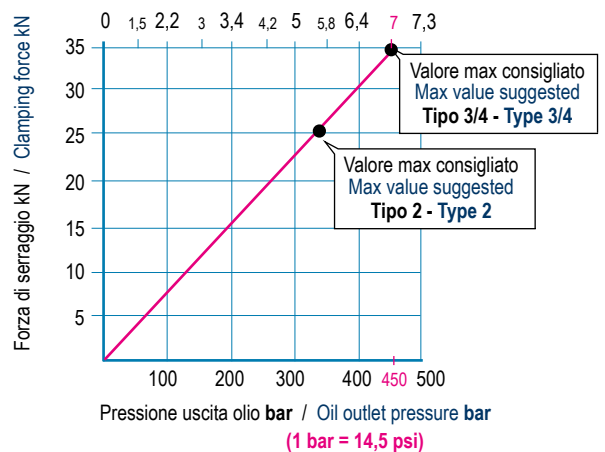
NB: Alcuni fattori, come la lubrificazione, lo staffaggio, gli attriti ed altro, possono modificare i valori indicati fino a ± 10%.  
Per un corretto utilizzo non superare i valori indicati nel grafico

### MORSE MODULARI TIPO 2-3-4 MODULAR VISES TYPE 2-3-4

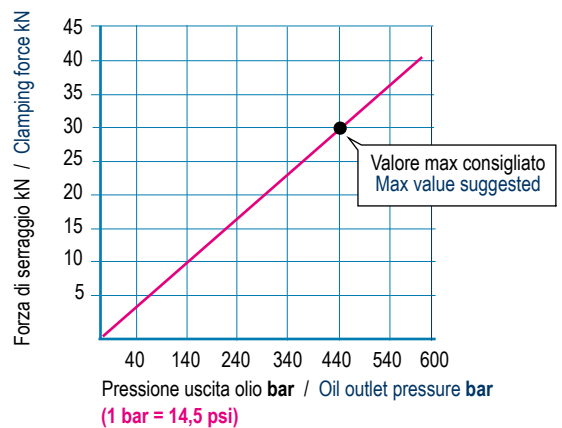
Cilindro idraulico Art. 285 - 568 - 569  
Ø interno 30 mm - Superficie efficace 7 cm<sup>2</sup>  
Hydraulic cylinder Art. 285 - 568 - 569  
Cylinder I.D. 30 mm - Effective area 7 cm<sup>2</sup>

Con moltiplicatore di pressione Art. 393 (Tipo 450)  
With pressure multiplier Art.393 (Type 450)

Pressione entrata aria bar / Air inlet pressure bar

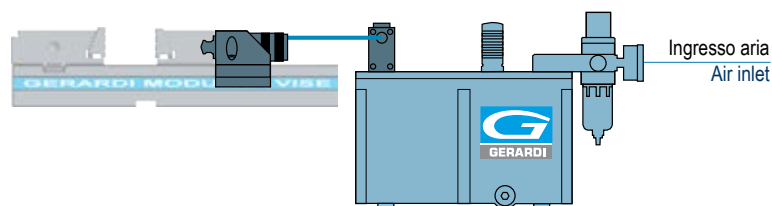


Con centralina elettroidraulica Art. 266 - 267 - 502 - 503  
With motor driven hydraulic power unit Art. 266 - 267 - 502 - 503



Some factor as lubrication, clamping on the machine table, frictions and more can modify above values within a ± 10% range.  
For optimum operation do not exceed chart values.

# SERRAGGIO IDRAULICO HYDRAULIC CLAMPING



## TRAMITE GRUPPI DI SERRAGGIO PNEUMATICI E OLEODINAMICI

I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con le morse di varia grandezza (da 1 a 6), provvisti di vari dispositivi di bloccaggio idraulici, in funzione della pressione dei fluidi (aria e olio)

## THROUGH PNEUMO-HYDRAULIC AND HYDRAULIC CLAMPING DEVICES

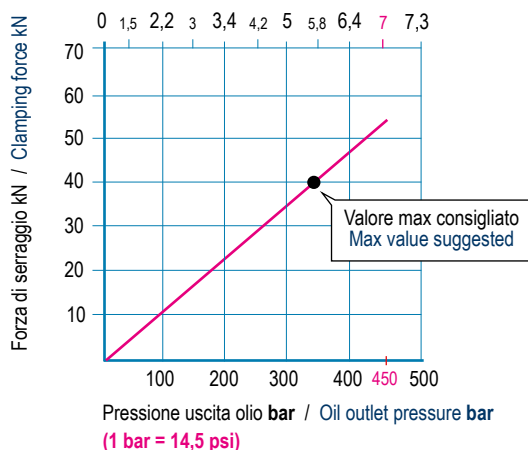
The following diagrams give the clamping force that can be obtained with each vise type (size 1 to 6) when equipped with hydraulic blocking devices, as a function of the fluid pressure (air or oil)

### MORSE MODULARI TIPO 5 MODULAR VISES TYPE 5

Cilindro idraulico Art. 285 - 568 - 569  
Ø interno 40 mm - Superficie efficace 12,5 cm<sup>2</sup>  
Hydraulic cylinder Art. 285 - 568 - 569  
Cylinder I.D. 40 mm - Effective area 12.5 cm<sup>2</sup>

Con moltiplicatore di pressione Art. 393 (Tipo 450)  
With pressure multiplier Art.393 (Type 450)

Pressione entrata aria bar / Air inlet pressure bar

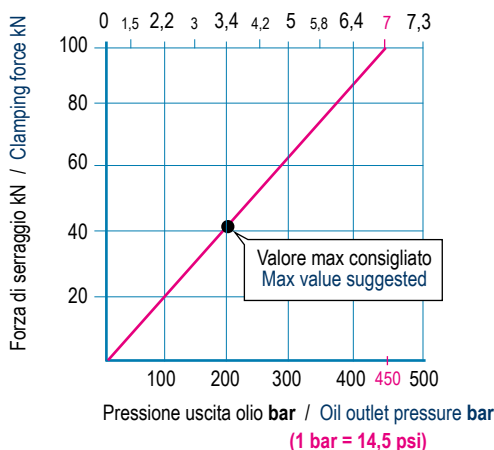


### MORSE MODULARI TIPO 6 MODULAR VISES TYPE 6

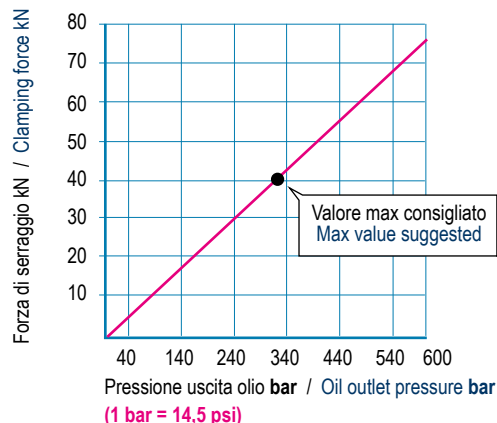
Cilindro idraulico Art. 285 - 568 - 569  
Ø interno 50 mm - Superficie efficace 19,6 cm<sup>2</sup>  
Hydraulic cylinder Art. 285 - 568 - 569  
Cylinder I.D. 50 mm - Effective area 19.6 cm<sup>2</sup>

Con moltiplicatore di pressione Art. 393 (Tipo 450)  
With pressure multiplier Art.393 (Type 450)

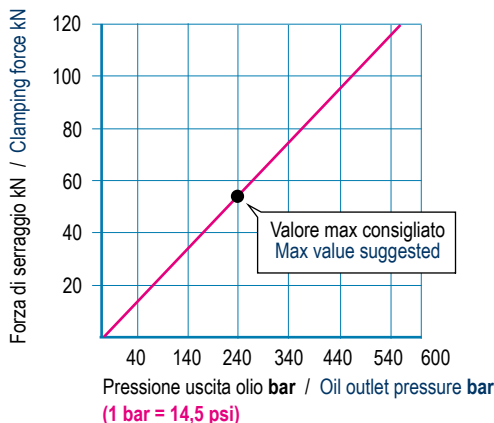
Pressione entrata aria bar / Air inlet pressure bar



Con centralina elettroidraulica Art. 266 - 267 - 502 - 503  
With motor driven hydraulic power unit Art. 266 - 267 - 502 - 503



Con centralina elettroidraulica Art. 266 - 267 - 502 - 503  
With motor driven hydraulic power unit Art. 266 - 267 - 502 - 503



NB: Alcuni fattori, come la lubrificazione, lo staffaggio, gli attriti ed altro, possono modificare i valori indicati fino a ± 10%.  
Per un corretto utilizzo non superare i valori indicati nel grafico

Some factor as lubrication, clamping on the machine table, frictions and more can modify above values within a ± 10% range.  
For optimum operation do not exceed chart values.

## CELLE DI CARICO / LOADING CELLS

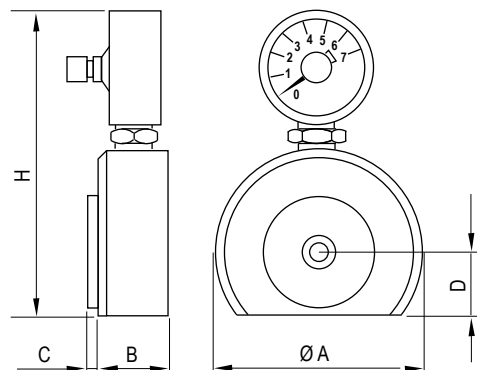
Tipo (grandezza) morsa / Vise (type) size

### Art. 272

Cella di carico **completa** per controllo forza di bloccaggio delle morse  
**Complete** loading cells to check vise clamping force



	1	2	3	4	5	6
kN		60			-	-
Cod.		4.27.26000			-	-
€		1.180			-	-
Ø A		90			-	-
B		37			-	-
C		4			-	-
D		30			-	-
E		c.a. 150			-	-



### Art. 272A

Indicatore di forza kN  
Force indicator kN



Cod.		4.27.2A600			-	-
€		590			-	-

LA FORZA DELLA QUALITÀ !  
THE STRENGTH OF QUALITY !

### Art. 394

Pag. 4.41

Centralina a comando **pneumatico remoto**  
(Tramite Art. 402 extra) - Pressione max 450bar  
Con mantenimento e ripristino automatico della pressione desiderata

Power unit with **remote pneumatic** control  
(Through Art. 402 extra) - Max pression 450bar  
Automatic retention and reset of desired pressure

### Art. 395

Pag. 4.41

Centralina a comando **elettrico**  
Pressione max 450bar  
Con mantenimento e ripristino automatico della pressione desiderata

Power unit with **electrical** control  
Max pression 450bar  
Automatic retention and reset of desired pressure

