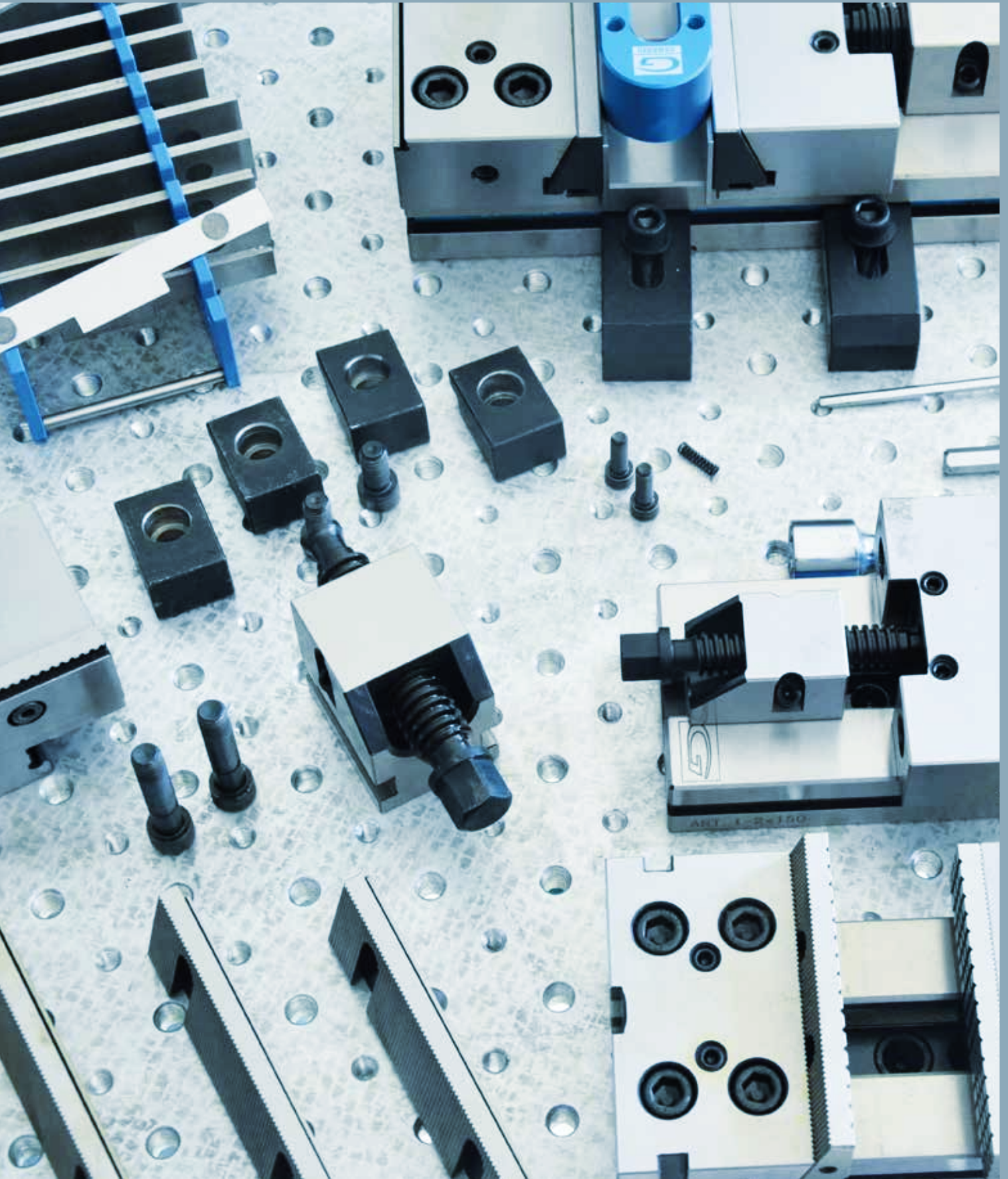


# STD & STANDARDFLEX ACCESSORI E RICAMBI - SPARE PARTS & ACCESSORIES



**INDICE - INDEX**

Art.	Page 4.	Art.	Page 4.	Art.	Page 4.	Art.	Page 4.	Art.	Page 4.	Art.	Page 4.
105	29	200	17	248	9	305	27	390A/2	40	397C	47
120	8	201	17	248G	14 - 15	306	27	390A/3	40	397D	47
120A	18	203	17	248S	9	306A	28	390A/4	40	398	43
121	8	204	17	249	9	306B	28	390B	44	398B	43
123	8	206	17	249G	14 - 15	306C	28	390B/2	44	398C	47
123A	18	207	17	249S	9	307	27	390B/3	44	398D	47
124	8	208	17	250	9	308	27	390B/4	44	399	48
126	8	209	17	251	9	309	27	390C	44	400	48
126A	18	210	22	252	9	310	25	390C/2	44	401	48
127	8	211	22	253	9	311	25	390C/3	44	402	48
127A	18	212	21	257	35	312	25	390C/4	44	402/90	48
128	8	213	21	258	34	313	25	391	41	403	48
129	8	214	21	260	26	313A	25	391/2	41	404	48
132	26	215	21	266	51	313R	25	391/3	41	405	33
133	26	217	22	270A	49	314	25	391/4	41	405H	48
134	26	218	22	267	51	315	28	391A/2	41	407	40
135	26	224	21	270B	49	316	28	391A/3	41	407A	41
140	10	225	21	271	38	317	24	391A/4	41	407B	42
140G	13	220 G01	15	271D	38	318	28	391B	45	407C	44
140T	12	220 G02	15	272	54	319	28	391B/2	45	407D	45
141	10	220 G11	15	272A	54	320	20	391B/3	45	407E	46
141G	13	230	9	282	34	320A	20	391B/4	45	410	34
141T	12	230B	19	283	38	321	28	391C/2	45	420	29
143	10	230C	19	284	35	322	28	391C/3	45	430	29
143G	13	230D	19	285	39	323	28	391C/4	45	431	26
143T	12	230E	19 - 20	285A	39	324	28	392	42	440	26
144	10	230F	19	285B	39	325	33	392/2	42	502	51
144G	13	230G	19	285C	39	355	34	392/3	42	503	51
144T	12	230H	19	285D	39	356	34	392/4	42	505	49
146	10	230M	19	285E	39	357	33	392A/2	42	569	39
146G	13	230S	9	285F	39	360	34	392A/3	42	569A	39
146T	12	231	9	285G	39	361	34	392A/4	42	569B	39
147	10	231S	9	285H	39	362	24	392B	46	569C	39
147G	13	232	9	286	35	365	29	392B/2	46	569D	39
147T	12	233	9	287	32	366	29	392B/3	46	569E	39
148	10	234	9	290	35 - 36	367	29	392B/4	46	569F	39
148G	13	235	9	291	33	368	29	392C/2	46	569G	39
149	10	242	11	292	35	370	33	392C/3	46	570	26
149G	13	242G	14 - 15	293	35	370A	33	392C/4	46	570S	26
152	22	243G	14 - 15	294	35	375	33	393	43	605 G1	20
160	16	246G	14 - 15	295	35	376	33	393D	47	605 G2	20
161	16	247G	14 - 15	296	31	377	33	394	54	605 G3	20
163	16	242S	11	297	33	380	26	394D	47	ID 03	49
164	16	243	11	298	31	381	26	395	54	ID 04	49
166	16	243S	11	300	27	382	26	395D	47	ID 05	49
167	16	244	11	300A	28	383	26	396	43	981	3
168	16	245	11	301	27	384	26	396B	43		
169	16	246	11	302	27	390	40	396C	47		
190	27	246T	11	303	27	390/2	40	396D	47		
192	23	247	11	303A	28	390/3	40	397	43		
192S	23	247T	11	304	27	390/4	40	397B	43		

# VALIGETTA DI CAMPIONATURA STD (Art.1)

## SAMPLE KIT CASE STD (Art.1)

**NEW!**

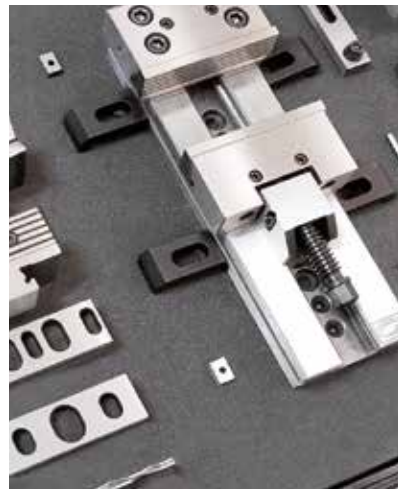
**Art. 981**

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

Cod. 0.98.10000

**All'Interno - Inside:**

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



## 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
		Discendente Pull down		Discendente + inserti GRIP Pull down + GRIP inserts		Lavorabile Machineable		Cambio rapido manuale Quick manual change		GRIP GRIP		Inserti GRIP Inserti GRIP
PIASTRE GANASCE JAW PLATES		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		
		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
POSSIBILITÀ DI POSSIBILITY OF		Comando manuale Manual control		Comando elettrico Solenoid control		Comando pneumatico Pneumatic control						
		PAGINE PAGES										

# 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.

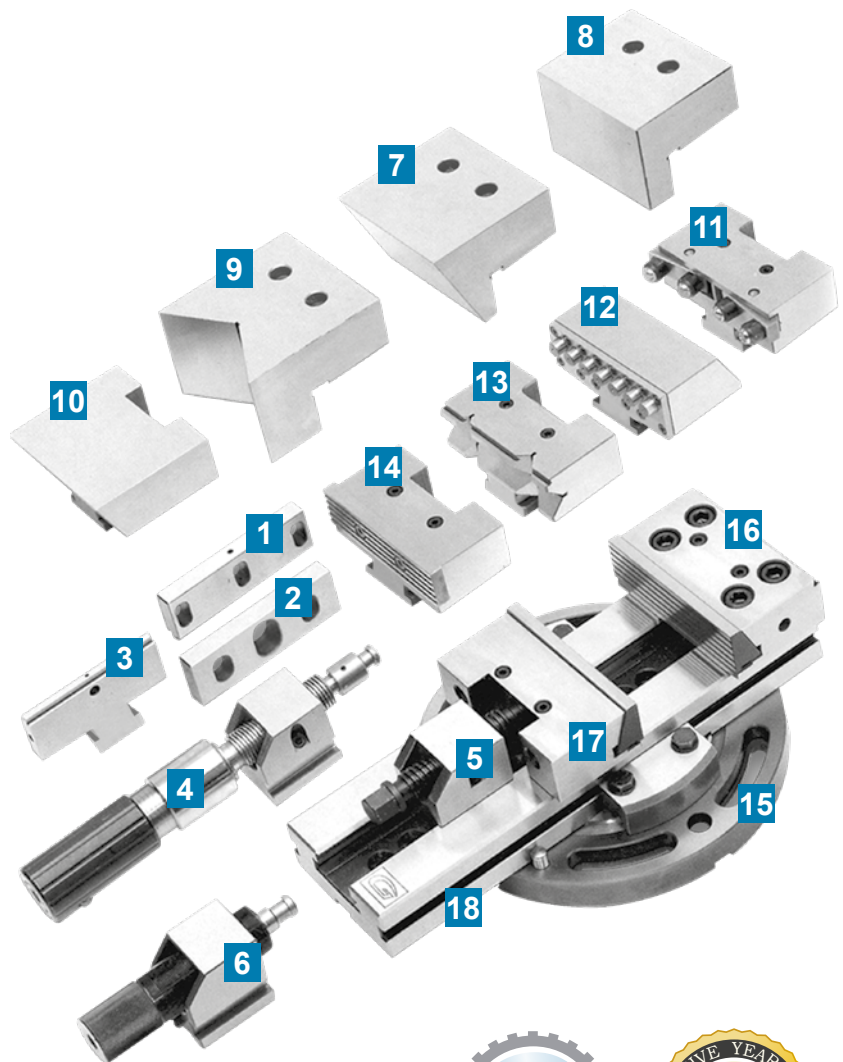
The solid standard fixed jaws with 5x5 mm back steps are matchable, if turned of  $180^\circ$ , to the prismatic movable jaw (Art.217) to be ordered separately.

**17 Art. 127**

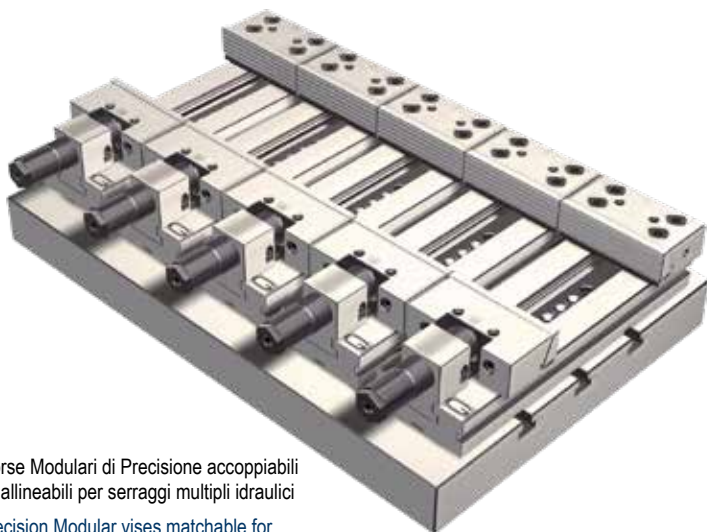
Ganascia mobili guidate monoblocco costruite con un angolo di spinta verso il basso.  
Guided movable jaws built in one solid body with a pull down angle

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

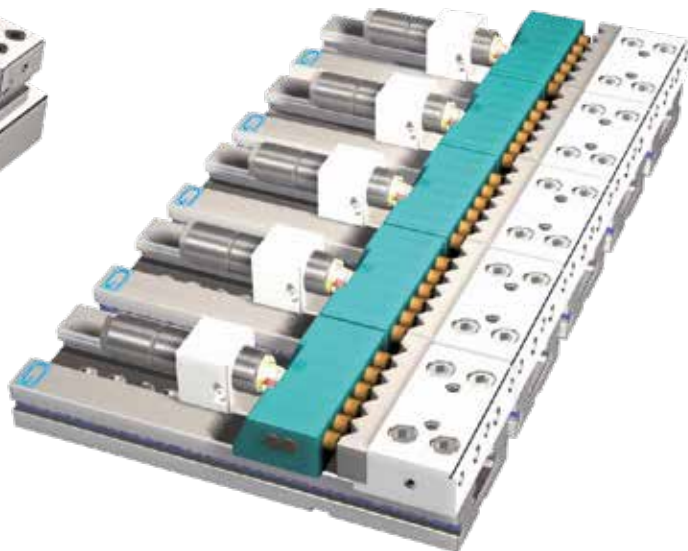
Morsa con base girevole  
Vise with swivel base



# ESEMPI APPLICATIVI APPLICATION EXAMPLES

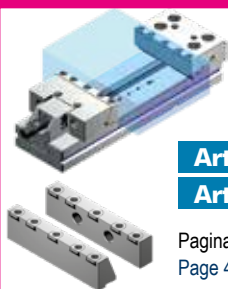


Morse Modulari di Precisione accoppiabili ed allineabili per serraggi multipli idraulici con ganasce speciali  
Precision Modular vises matchable for gang operations and hydraulic clamping with special jaws



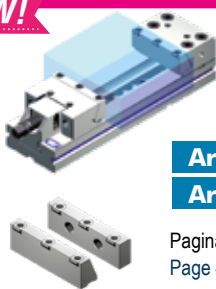
Morse Modulari di Precisione accoppiabili ed allineabili per serraggi multipli idraulici  
Precision Modular vises matchable for gang operations and hydraulic clamping

**NEW!**



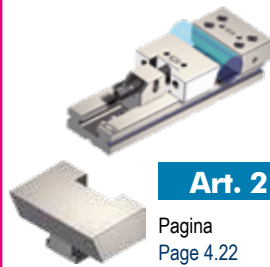
**Art. 242G**  
**Art. 246G**

Pagina  
Page 4.14



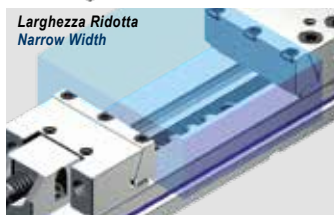
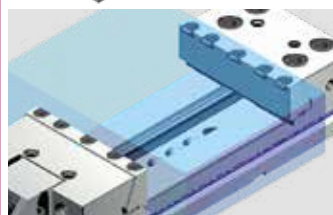
**Art. 243G**  
**Art. 247G**

Pagina  
Page 4.14



**Art. 210**

Pagina  
Page 4.22



*Larghezza Ridotta*  
*Narrow Width*

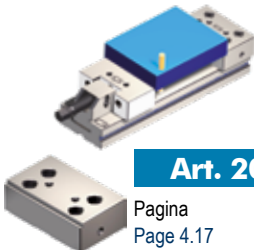


## NEW INSERT GRIP JAW PLATES



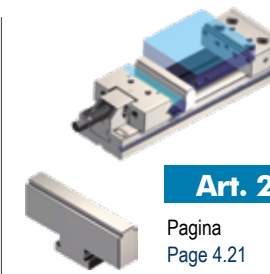
**Art. 160**

Pagina  
Page 4.16



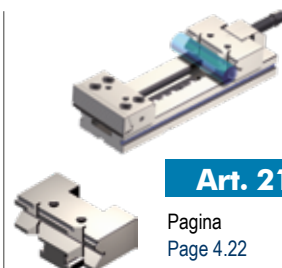
**Art. 200**

Pagina  
Page 4.17



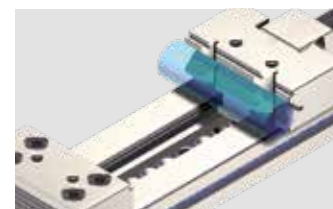
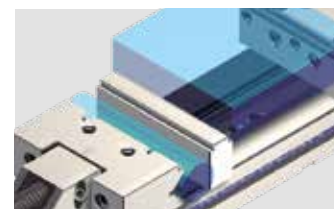
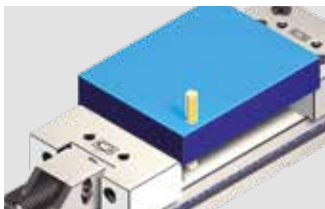
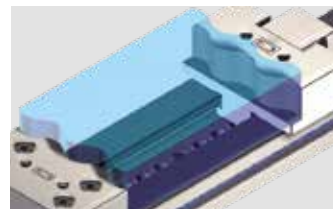
**Art. 212**

Pagina  
Page 4.21

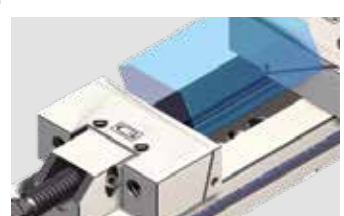
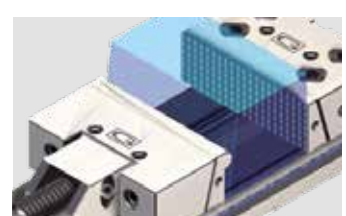
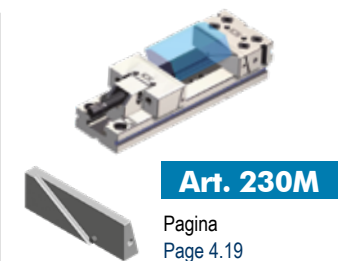
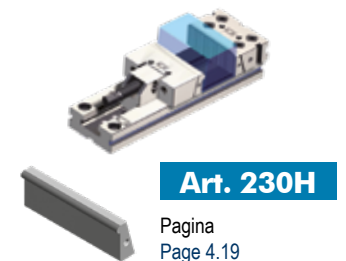
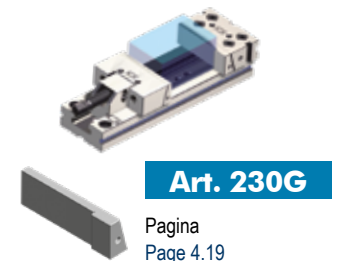
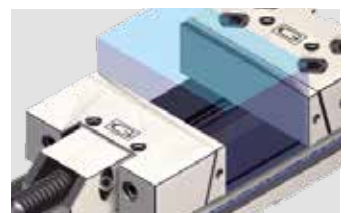
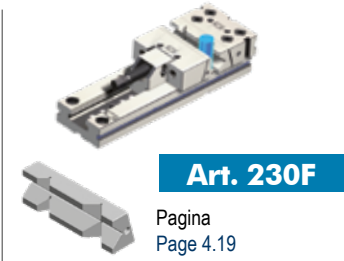
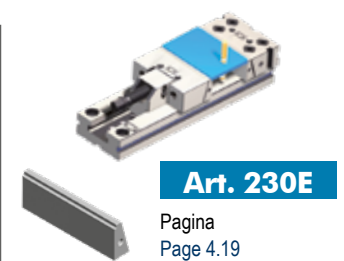
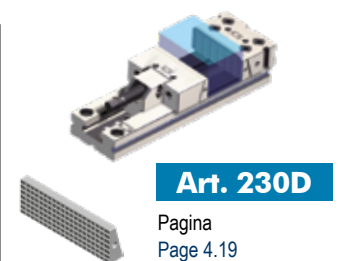
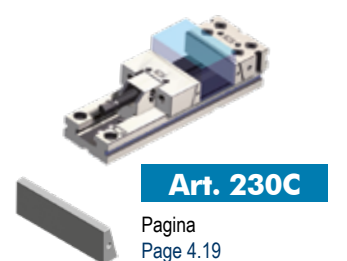
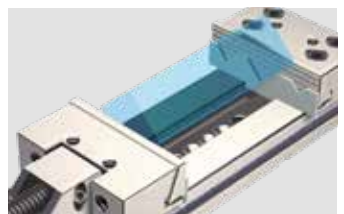
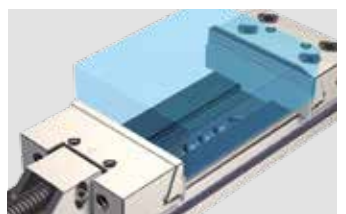
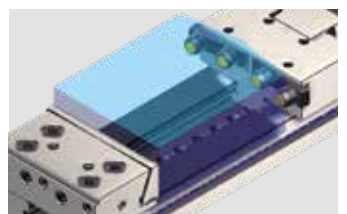
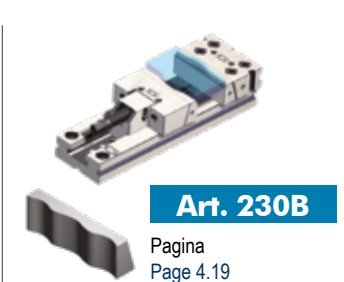
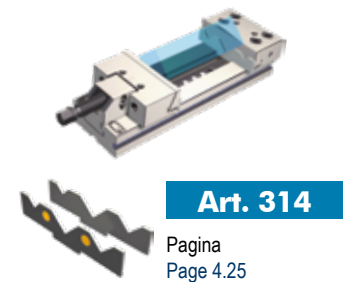
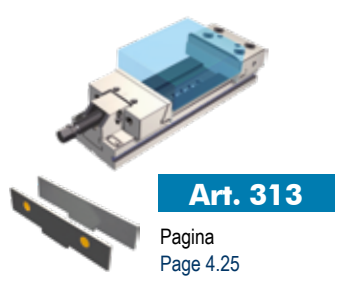
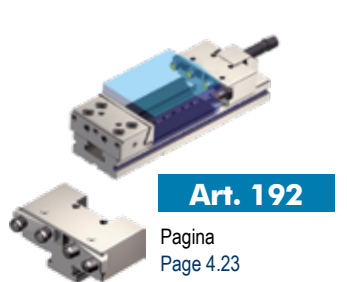


**Art. 217**

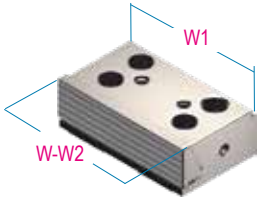
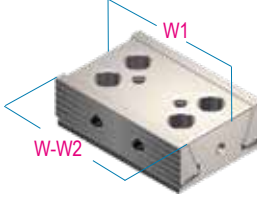
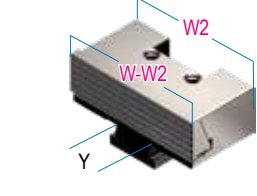
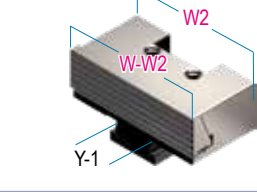
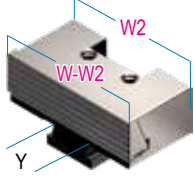
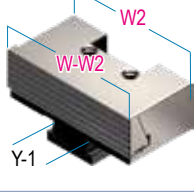
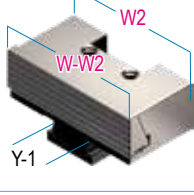
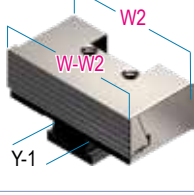
Pagina  
Page 4.22



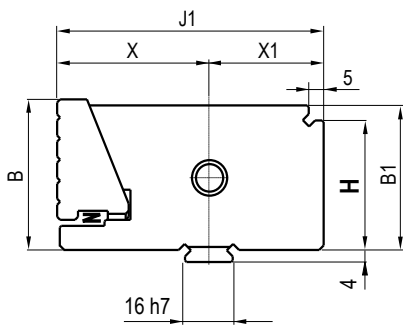
# ESEMPI APPLICATIVI APPLICATION EXAMPLES



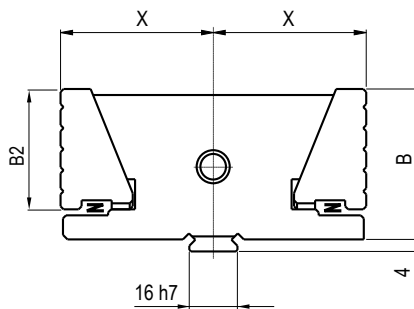
# Ganasce STANDARD / STANDARD jaws

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
<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
<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
<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
<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
<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
<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
<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

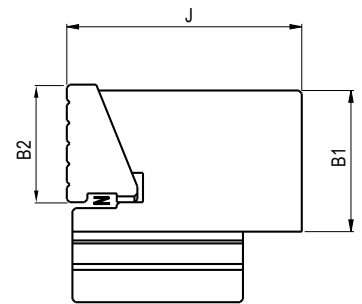
## Art. 120



## Art. 123



## Art. 127



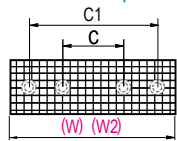
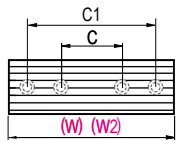
**W1 = W2 + 1mm**

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



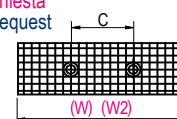
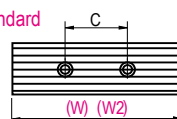
# Ricambi per ganasce STANDARD / Spares for STANDARD jaws

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

**Art. 230 (W)**
**Art. 230S (W)**

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

**Art. 249 (W2)**
**Art. 249S (W2)**

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

**PIASTRE LISCE TEMPRATE**

Fornibili a richiesta su ganasce e morse senza variazione di prezzo

**HARDENED SMOOTH JAW PLATES**

Available on request for complete jaws and vises without price change

**Art. 232 (W)**

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

**Art. 251 (W2)**

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

**PIASTRE IN ACCIAIO LAVORABILE (DOLCE)**

Fornibili a richiesta su ganasce e morse senza variazione di prezzo

**MACHINEABLE STEEL JAW PLATES (SOFT)**

Available on request for complete jaws and vises without price change

**Art. 234 (W)**

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

**Art. 253 (W2)**

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


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

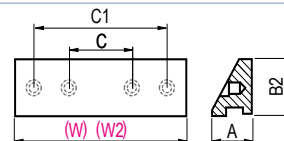
Cod. Art. 231	1.65.11000	1.65.21000	1.65.31000	1.65.41000	1.65.51000	1.65.61000
Cod. Art. 231S	4.23.1S100	4.23.1S200	4.23.1S300	4.23.1S400	4.23.1S500	4.23.1S600

**ATTENZIONE - ATTENTION:**

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

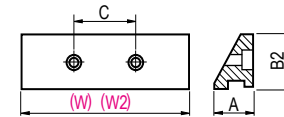
Cod. Art. 248	1.65.14000	1.65.24000	1.65.34000	1.65.44000	1.65.54000	1.65.64000
Cod. Art. 248S	4.24.8S100	4.24.8S200	4.24.8S300	4.24.8S400	4.24.8S500	4.24.8S600

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



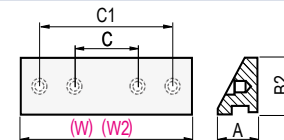
Cod. Art. 232	1.65.10100	1.65.20100	1.65.30100	1.65.40100	1.65.50100	1.65.60100
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Cod. Art. 233	1.65.11100	1.65.21100	1.65.31100	1.65.41100	1.65.51100	1.65.61100
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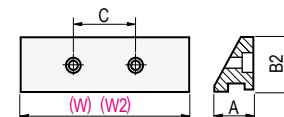
Cod. Art. 250	1.65.14100	1.65.24100	1.65.34100	1.65.44100	1.65.54100	1.65.64100
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Cod. Art. 251	1.65.15100	1.65.25100	1.65.35100	1.65.45100	1.65.55100	1.65.65100
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Cod. Art. 234	1.65.10200	1.65.20200	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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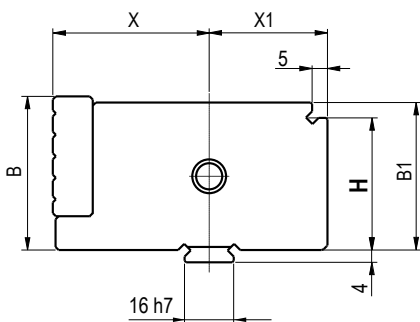
Cod. Art. 252	1.65.14200	1.65.24200	1.65.34200	1.65.44200	1.65.54200	1.65.64200
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Cod. Art. 253	1.65.15200	1.65.25200	1.65.35200	1.65.45200	1.65.55200	1.65.65200
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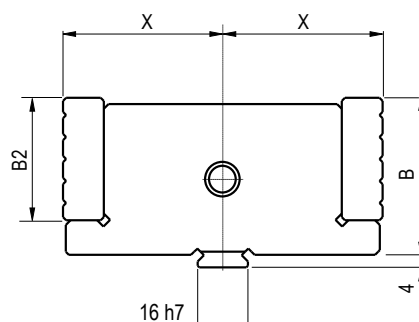
## Ganasce con PIASTRE PIANE / STRAIGHT PLATE jaws

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
<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
<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
<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
<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
<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
<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
<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

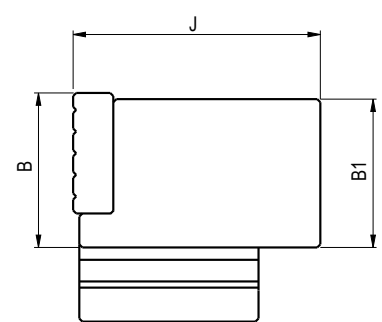
### Art. 140



### 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
Y1	20	27	40	50	60	70
B	30	40	50	60	65	80
B1	28	38	48	58	63	78
B2	24,5	32	40	43	48	63
* H	23	33	43	53	53	68
J	50	60	80	90	100	120
X	42,4	42,4	50,9	55,4	66,4	73,1
X1	35,5	35,5	38,5	41,5	47	47

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

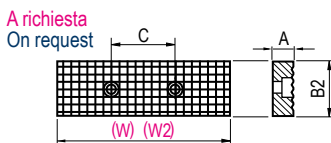
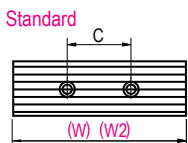
# Ricambi per ganasce con PIASTRE PIANE / Spares for STRAIGHT jaw plates

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
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**PIASTRE PIANE 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


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)

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

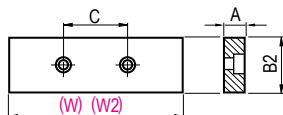
Cod. Art. 242	1.65.16000	1.65.26000	1.65.36000	1.65.46000	1.65.56000	1.65.66000
Cod. Art. 242S	4.24.2S100	4.24.2S200	4.24.2S300	4.24.2S400	4.24.2S500	4.24.2S600

**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)

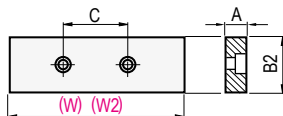
Cod. Art. 244	4.24.41000	4.24.42000	4.24.43000	4.24.44000	4.24.45000	4.24.46000
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**Art. 245 (W2)**

 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)

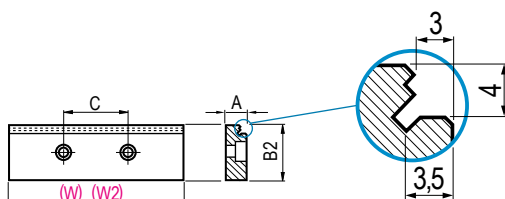
Cod. Art. 246	1.65.16200	1.65.26200	1.65.36200	1.65.46200	1.65.56200	1.65.66200
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**Art. 247 (W2)**

 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**

&lt; Superficie Surface &gt; 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)**

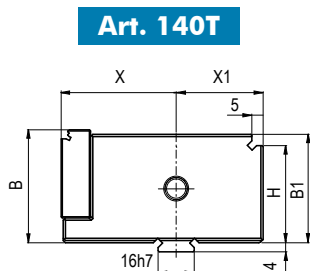
 Per ganascia fissa e mobile - Art. 141, 144, 147 - Larghezza ridotta (W2)  
 For fixed and movable jaw - Art. 141, 144, 147 - Narrow width (W2)

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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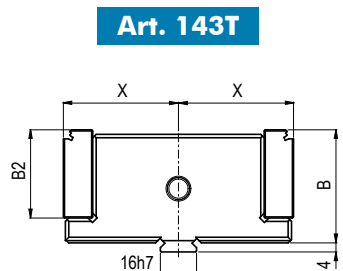
## Ganasce con PIASTRE PIANE GRIP / STRAIGHT PLATE GRIP jaws

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
<b>Art. 140T</b> W <b>NEW!</b> Ganasce fissa GRIP. Larghezza normale (W) Fixed GRIP jaw. Normal width (W)	Cod. 2.14.0T100	2.14.0T200	2.14.0T300	2.14.0T400	2.14.0T500	2.14.0T600
<b>Art. 141T</b> W2 <b>NEW!</b> Ganasce fissa GRIP. Larghezza ridotta rettificata (W2) Fixed GRIP jaw. Narrow width ground (W2)	Cod. 2.14.T1100	2.14.T1200	2.14.T1300	2.14.T1400	2.14.T1500	2.14.T1600
<b>Art. 143T</b> W <b>NEW!</b> Ganasce fissa doppia. Larghezza normale (W) Double fixed jaw. Normal width (W)	Cod. 2.14.T3100	2.14.T3200	2.14.T3300	2.14.T3400	2.14.T3500	2.14.T5100
<b>Art. 144T</b> W2 <b>NEW!</b> Ganasce fissa doppia. Larghezza ridotta rettificata (W2) Double fixed jaw. Narrow width ground (W2)	Cod. 2.14.T4100	2.14.T4200	2.14.T4300	2.14.T4400	2.14.T4500	2.14.T4600
<b>Art. 146T</b> W <b>NEW!</b> Ganasce mobile monoblocco guidata. Larghezza normale (W) Guided movable solid jaw. Normal width (W)	Cod. 2.14.T6100	2.14.T6200	2.14.T6300	2.14.T6400	2.14.T6500	2.14.T6600
<b>Art. 147T</b> W2 <b>NEW!</b> Ganasce mobile monoblocco guidata. Larghezza ridotta (W2) Guided movable solid jaw. Narrow width (W2)	Cod. 2.14.T7100	2.14.T7200	2.14.T7300	2.14.T7400	2.14.T5500	2.14.T7600

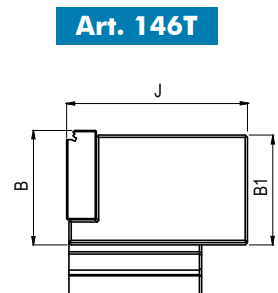
4



**Art. 140T**



**Art. 143T**



**Art. 146T**

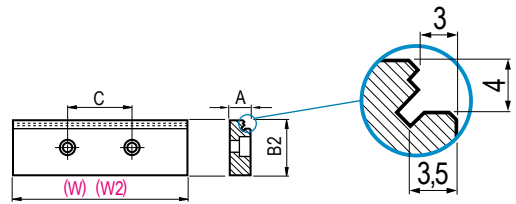
**W1 = W2 + 1mm**

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

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

**PIASTRE PIANE 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 ganasce fissa e mobile - Art. 140, 143, 146 - Larghezza normale (W)  
 For fixed and movable jaw - Art. 140, 143, 146 - Normal width (W)

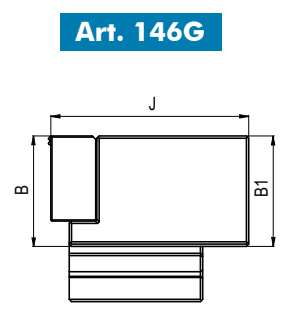
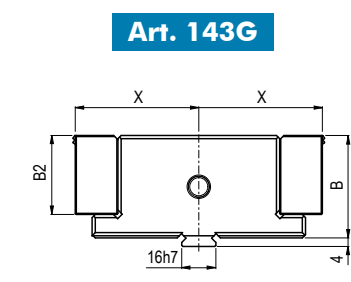
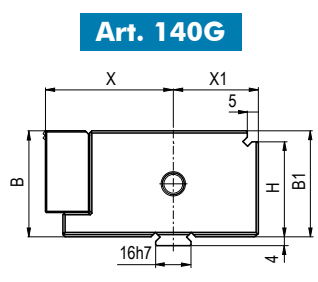
Cod. Art. 246T	4.24.6T100	4.24.6T200	4.24.6T300	4.24.6T400	4.24.6T500	4.24.6T600
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**Art. 247T** (W2)  
 Per ganasce fissa e mobile - Art. 141, 144, 147 - Larghezza ridotta (W2)  
 For fixed and movable jaw - Art. 141, 144, 147 - Narrow width (W2)

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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# Ganascie con PIASTRE con inserti GRIP / STRAIGHT PLATE jaws with GRIP inserts

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
<b>Art. 140G</b> W <b>NEW!</b> Ganascia fissa con inserti GRIP. Larghezza normale (W) Fixed jaw with GRIP inserts. Normal width (W)						
	Cod. 2.14.0G100	2.14.0G200	2.14.0G300	2.14.0G400	2.14.0G500	2.14.0G600
<b>Art. 141G</b> W2 <b>NEW!</b> Ganascia fissa. Larghezza ridotta rettificata (W2) Fixed jaw with GRIP inserts. Narrow width ground (W2)						
	Cod. 2.14.G1100	2.14.G1200	2.14.G1300	2.14.G1400	2.14.G1500	2.14.G1600
<b>Art. 143G</b> W <b>NEW!</b> Ganascia fissa con inserti GRIP doppia. Larghezza normale (W) Double fixed jaw with GRIP inserts. Normal width (W)						
	Cod. 2.14.G3100	2.14.G3200	2.14.G3300	2.14.G3400	2.14.G3500	2.14.G5100
<b>Art. 144G</b> W2 <b>NEW!</b> Ganascia fissa doppia con inserti GRIP. Larghezza ridotta rettificata (W2) Double fixed jaw with GRIP inserts. Narrow width ground (W2)						
	Cod. 2.14.G4100	2.14.G4200	2.14.G4300	2.14.G4400	2.14.G4500	2.14.G4600
<b>Art. 146G</b> W <b>NEW!</b> Ganascia mobile monoblocco guidata con inserti GRIP. Larghezza normale (W) Guided movable solid jaw with GRIP inserts. Normal width (W)						
	Cod. 2.14.G6100	2.14.G6200	2.14.G6300	2.14.G6400	2.14.G6500	2.14.G6600
<b>Art. 147G</b> W2 <b>NEW!</b> Ganascia mobile monoblocco guidata con inserti GRIP. Larghezza ridotta (W2) Guided movable solid jaw with GRIP inserts. Narrow width (W2)						
	Cod. 2.14.G7100	2.14.G7200	2.14.G7300	2.14.G7400	2.14.G5500	2.14.G7600
<b>Art. 148G</b> W <b>NEW!</b> Ganascia mobile monoblocco oscillante con inserti GRIP. Larghezza normale (W) Floating movable solid jaw with GRIP inserts. Normal width (W)						
	Cod. 2.14.G8100	2.14.G8200	2.14.G8300	2.14.G8400	2.14.G8500	2.14.G8600
<b>Art. 149G</b> W2 <b>NEW!</b> Ganascia mobile monoblocco oscillante con inserti GRIP. Larghezza ridotta (W2) Floating movable solid jaw with GRIP inserts. Narrow width (W2)						
	Cod. 2.14.G9100	2.14.G9200	2.14.G9300	2.14.G9400	2.14.G9500	2.14.G9600



**W1 = W2 + 1mm**

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

Tipo / Type	1	2	3	4	5	6
W	100	125	150	175	200	300
W2	74	94	124	144	169	194
Y	21	28	41	51	61	71
Y1	20	27	40	50	60	70
B	28	38	48	58	63	78
B1	28	38	48	58	63	78
* B2	24,5	30	37	42	46	54
H	23	33	43	53	53	68
J	58	68	87	97	102	122
X	50,4	50,4	57,9	62,4	68,4	75,1
X1	35,5	35,5	38,5	41,5	47	47

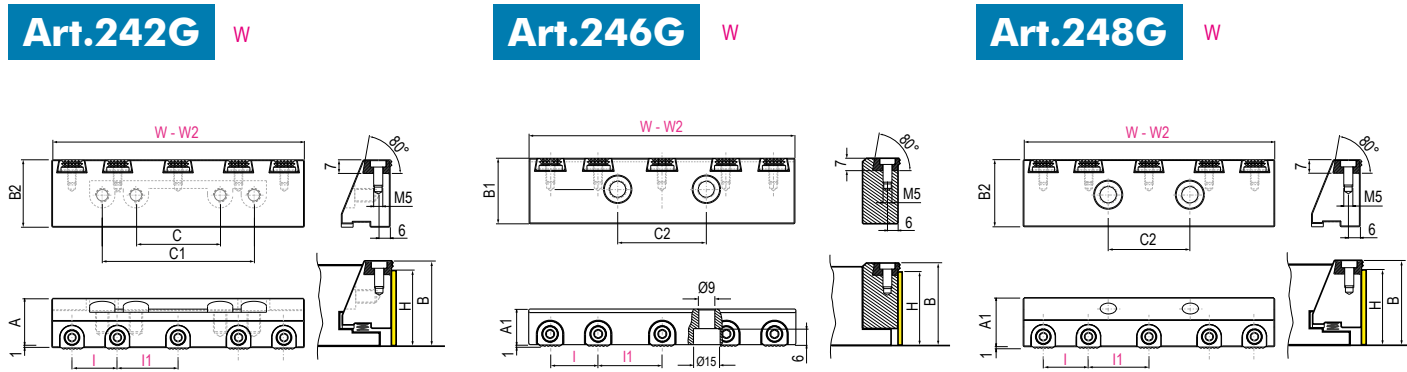
# PIASTRE GANASCE CON INSERTI GRIP INSERT GRIP JAW PLATES

**NEW!**

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
<b>Art. 242G</b> 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
<b>Art. 243G</b> 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
<b>Art. 248G</b> W <b>NEW!</b> Piastra Ganascia con Inserti GRIP. Larghezza normale (W) Jaw plate with GRIP insert. Normal width (W)	Cod. 1.24.8G100	1.24.8G200	1.24.8G300	1.24.8G400	1.24.8G500	1.24.8G600
<b>Art. 249G</b> W2 <b>NEW!</b> Piastra Ganascia con Inserti GRIP. Larghezza ridotta rettificata (W1) Jaw plate with GRIP insert. Narrow width ground (W1)	Cod. 1.24.9G100	1.24.9G200	1.24.9G300	1.24.9G400	1.24.9G500	1.24.9G600
<b>Art. 246G</b> 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
<b>Art. 247G</b> 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

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

4



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

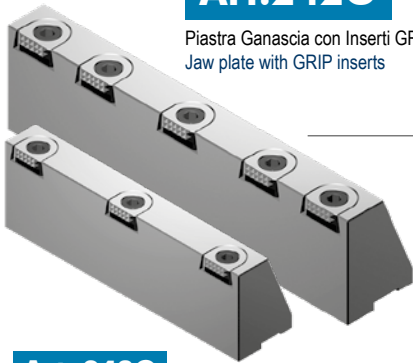
Tipo / Type	1	2	3	4	5	6
W	100	125	150	175	200	300
W2	74	94	124	144	169	194
I	-	-	31,5	35	27	33
I1	35	45	31,5	35	27	33
C	20	32	50	50	76	90
C1	62	80	90	116	138	184
C2	25	32	50	50	76	80
B	28	38	48	58	63	78
B1	24,5	30	37	42	46	54
B2	24,5	32	40	43	53	63
A	25	20	24	24	29	35
A1	20	20	20	20	20	20
H	25	35	45	55	60	75

# PIASTRE GANASCE CON INSERTI GRIP INSERT GRIP JAW PLATES

**NEW!**

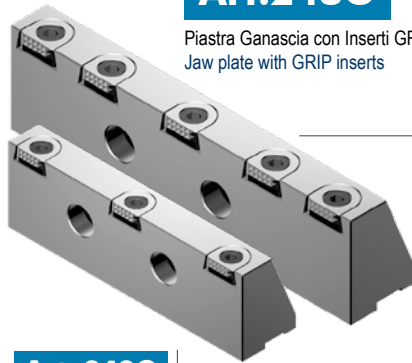
## Art.242G

Piastra Ganascia con Inserti GRIP  
Jaw plate with GRIP inserts



## Art.248G

Piastra Ganascia 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. 249G

Larghezza ridotta  
Narrow width

## Art. 247G

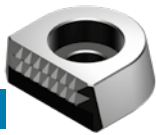
Larghezza ridotta  
Narrow width

### Inserti Grip - Grip Inserts

## Art. 220 G01

Per materiali di durezza normale  
For standard workpieces hardness clamping

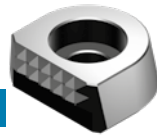
Cod. 4.22.01000 / G01



## Art. 220 G02

Per materiali di notevole durezza.  
For hardened workpieces clamping

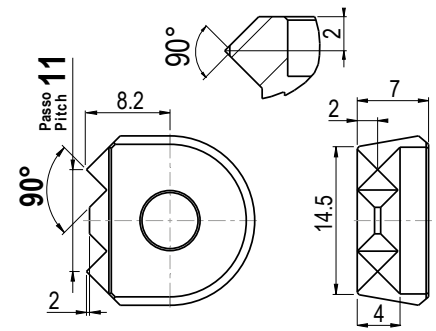
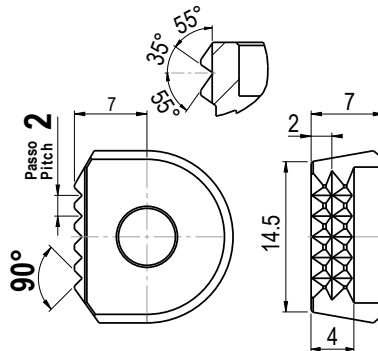
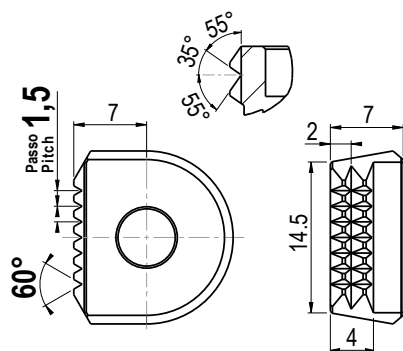
Cod. 4.22.01000 / G02



## Art. 220 G11

Per materiali teneri  
For soft material clamping

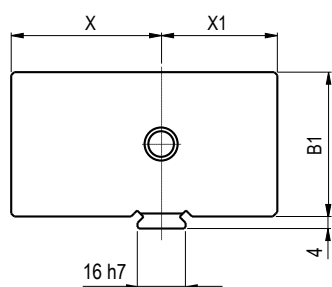
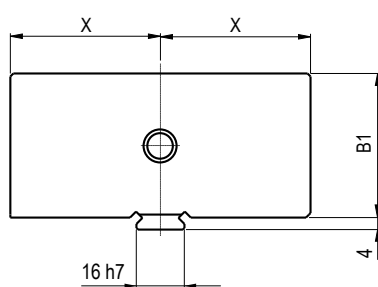
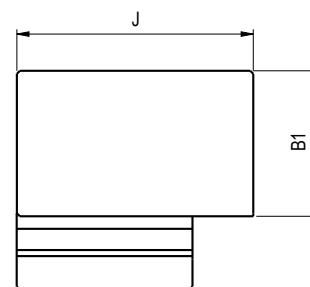
Cod. 4.22.01000 / G11



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

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

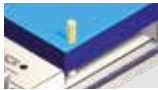



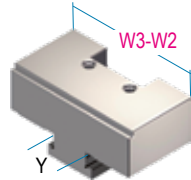
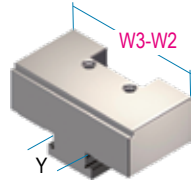
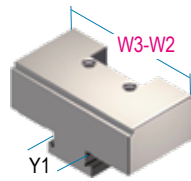
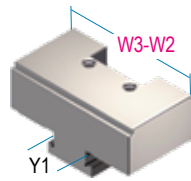
Tipo (grandezza) morsa / Vise type (size)		1	2	3	4	5	6	
<b>Art. 160</b> W3 Ganasce fissa. Larghezza normale (W3) Fixed jaw. Normal width (W3)		Cod.	2.16.01000	2.16.02000	2.16.03000	2.16.04000	2.16.05000	2.16.06000
<b>Art. 161</b> W1 Ganasce fissa. Larghezza ridotta rettificata (W1) Fixed jaw. Narrow width ground (W1)		Cod.	2.16.11000	2.16.12000	2.16.13000	2.16.14000	2.16.15000	2.16.16000
<b>Art. 163</b> W3 Ganasce 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>Art. 164</b> W1 Ganasce fissa doppia. Larghezza ridotta rettificata (W1) Double fixed jaw. Narrow width ground (W1)		Cod.	2.16.41000	2.16.42000	2.16.43000	2.16.44000	2.16.45000	2.16.46000
<b>Art. 166</b> W3 Ganasce 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>Art. 167</b> W2 Ganasce 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>Art. 168</b> W3 Ganasce 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>Art. 169</b> W2 Ganasce 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

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

**Art. 163**

**Art. 166**


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



# Ganasce monoblocco temprate con GRADINO / Solid jaws with STEP, Case hardened

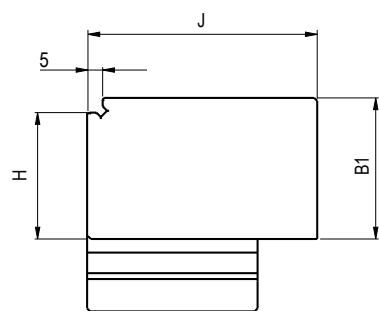
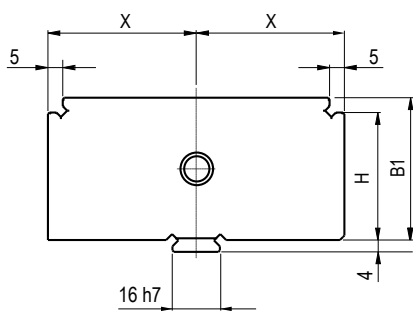
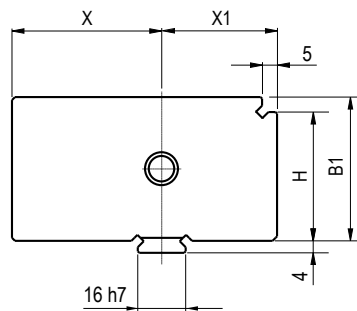
Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
<b>Art. 200</b> W3 Ganasce fissa. Larghezza normale (W3) Fixed jaw. Normal width (W3) 	Cod. 2.20.01000	2.20.02000	2.20.03000	2.20.04000	2.20.05000	2.20.06000
<b>Art. 201</b> W1 Ganasce fissa. Larghezza ridotta rettificata (W1) Fixed jaw. Narrow width ground (W1) 	Cod. 2.20.11000	2.20.12000	2.20.13000	2.20.14000	2.20.15000	2.20.16000
<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
<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
<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
<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
<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
<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

**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)**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
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**Art. 120A**

 Ganascia fissa  
 Fixed jaw


Cod.	4.12.0A100	4.12.0A200	4.12.0A300	4.12.0A400	4.12.0A500	4.12.0A600
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**Art. 123A**

 Ganascia fissa doppia  
 Double fixed jaw

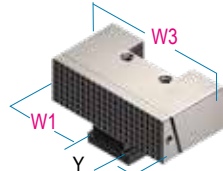

Cod.	4.12.3A100	4.12.3A200	4.12.3A300	4.12.3A400	4.12.3A500	4.12.3A600
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**Art. 126A**

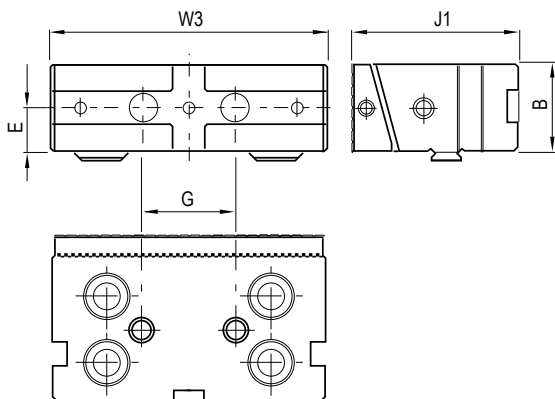
 Ganascia mobile oscillante  
 Floating movable jaw


Cod.	4.12.6A100	4.12.6A200	4.12.6A300	4.12.6A400	4.12.6A500	4.12.6A600
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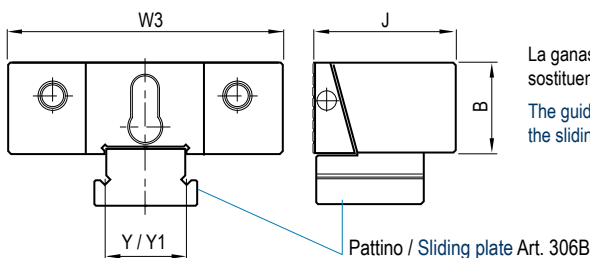
**Art. 127A**

 Ganascia mobile guidata  
 Guided movable jaw


Cod.	4.12.7A100	4.12.7A200	4.12.7A300	4.12.7A400	4.12.7A500	4.12.7A600
------	------------	------------	------------	------------	------------	------------

**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. 4.28)

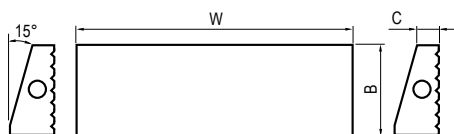
The guided movable jaw, Art. 127A, could be transformed in a floating movable jaw by simply exchanging the sliding plate, Art. 306B, with sliding plate Art. 306C (see page 4.28)

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

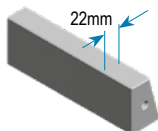
# Piastra ganaschia StdFLEX a cambio rapido / StdFLEX quick change jaw plates

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

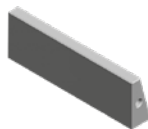
	1	2	3	4	5	6
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**Piastra ganasche rapide singole. Ricambi per ganasche rapide a pettine**  
**Single quick change jaw plates. Spares for quick change comb jaw**


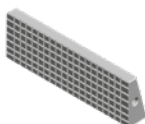
W	95	120	145	170	195	295
B	28	38	48	58	63	78
C	9	11	11	11	14	14

**Art. 230B**
**Piastra ganaschia 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
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**Art. 230C**
**Piastra ganaschia 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
------	------------	------------	------------	------------	------------	------------

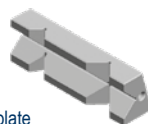
**Art. 230D**
**Piastra ganaschia intercambiabile zigrinata a pettine**  
**Serrated comb interchangeable jaw plate**


Cod.	4.23.0D101	4.23.0D201	4.23.0D301	4.23.0D401	4.23.0D501	4.23.0D601
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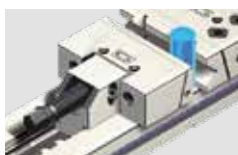
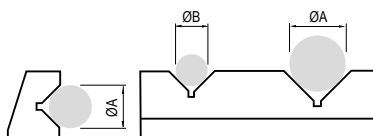
**Art. 230E**
**Piastra ganaschia intercambiabile a gradino a pettine**  
**Step comb interchangeable jaw plate**

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

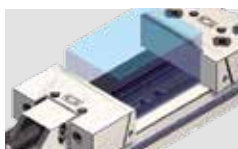
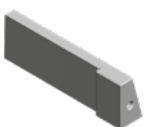
Cod.	4.23.0E101	4.23.0E201	4.23.0E301	4.23.0E401	4.23.0E501	4.23.0E601
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**Art. 230F**
**Piastra ganaschia intercambiabile prismatica a pettine**  
**Prismatic comb interchangeable jaw plate**


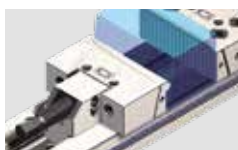
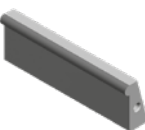
Ø min / max	A	6 / 16	9 / 24	13 / 38	15 / 40	15 / 42	15 / 42
Ø min / max	B	4 / 10	7 / 18	9 / 24	9 / 24	9 / 24	9 / 24



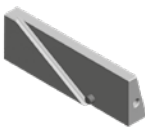
Cod.	4.23.0F101	4.23.0F201	4.23.0F301	4.23.0F401	4.23.0F501	4.23.0F601
------	------------	------------	------------	------------	------------	------------

**Art. 230G**
**Piastra ganaschia 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
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**Art. 230H**
**Piastra ganaschia 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
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**Art. 230M**
**Piastra ganaschia 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 !!**

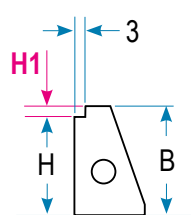
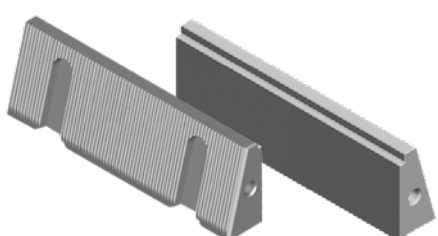
Cod.	4.23.0M101	4.23.0M201	4.23.0M301	4.23.0M401	4.23.0M501	4.23.0M601
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# Ganasce StandardFLEX a cambio rapido / StandardFLEX quick change jaws

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



## RISPARMIO DEL 40 % - SAVE 40 %

B	28	38	48	58	63	78
H1	Set di 8 pezzi / Set of 8 pcs	Set di 12 pezzi / Set of 12 pcs	Set di 14 pezzi / Set of 14 pcs	Set di 14 pezzi / Set of 14 pcs	Set di 16 pezzi / Set of 16 pcs	Set di 16 pezzi / Set of 16 pcs
	3	3	3	3	3	3
	5	5	5	5	5	5
	8	8	8	8	10	10
	13	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

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

Specificare sempre quota H1  
 Specify always H1 dimension

<b>Art. 605G1</b>	Vite a gradino / Step screw		Cod.	6.60.5G101
<b>Art. 605G2</b>	Perno a molla / Spring pin		Cod.	6.60.5G202
<b>Art. 605G3</b>	Molla / Spring		Cod.	6.60.5G301

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



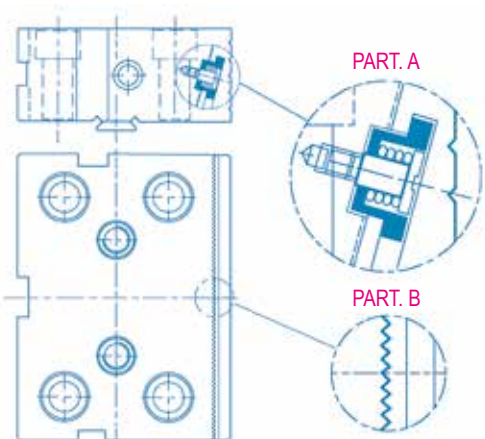
Cod.	4.32.0A100	4.32.0A200	4.32.0A300	4.32.0A400	4.32.0A500	4.32.0A600
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## Art. 320

Portapiastre  
 Rack



Cod.	4.32.01000	4.32.02000	4.32.03000	4.32.04000	4.32.05000	4.32.06000
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## 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.

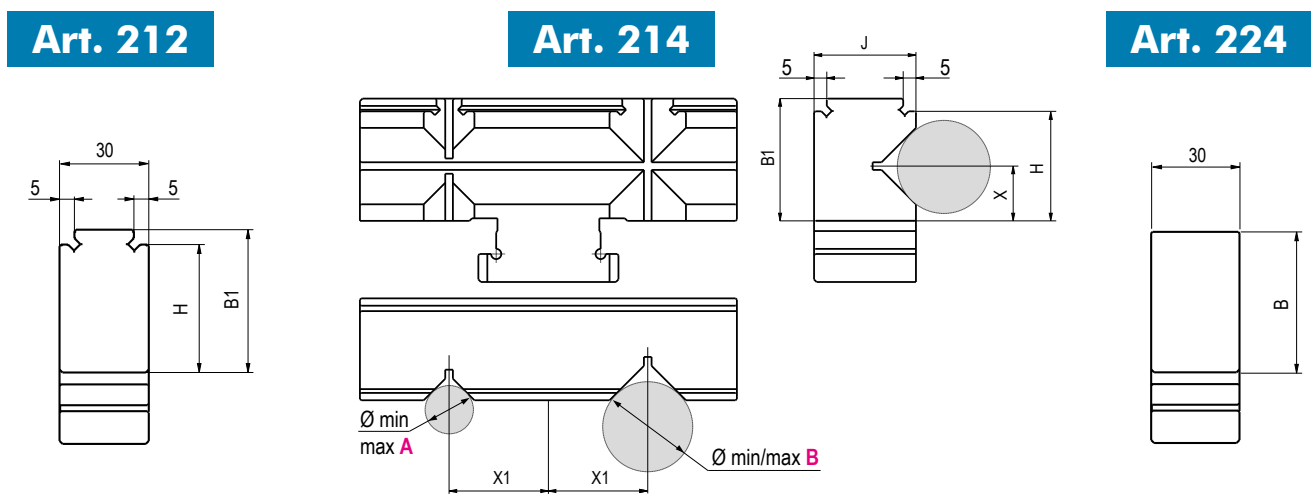
## Quick hand change of downward jaw plates - no tools needed

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.

# Ganascce MOBILI INTERMEDIE / INTERMEDIATE MOVABLE jaws

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
<b>Art. 212</b> W3 Ganascia mobile intermedia con doppio gradino. Larghezza normale (W3) Intermediate movable jaw with double step. Normal width (W3)						
<b>Art. 213</b> W2 Ganascia mobile intermedia con doppio gradino. Larghezza ridotta (W2) Intermediate movable jaw with double step. Narrow width (W2)						
<b>Art. 214</b> W3 Ganascia mobile intermedia prismatica. Larghezza normale (W3) Prismatic intermediate movable jaw. Normal width (W3)						
<b>Art. 215</b> W2 Ganascia mobile intermedia. Larghezza ridotta (W2) Intermediate movable jaw. Narrow width (W2)						
<b>Art. 224</b> W3 Ganascia mobile intermedia. Larghezza normale (W3) Intermediate movable jaw. Normal width (W3)						
<b>Art. 225</b> W2 Ganascia mobile intermedia. Larghezza ridotta (W2) Intermediate movable jaw. Narrow width (W2)						

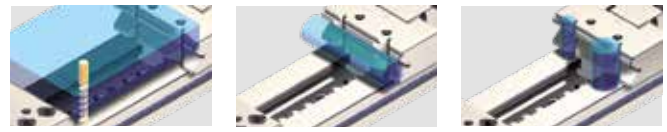
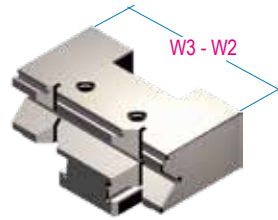
4



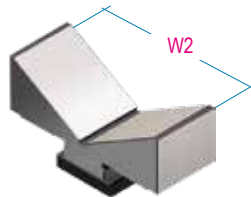
Art.	1	2	3	4	5	6
W3	96	121	146	171	196	296
W2	74	94	124	144	169	194
B	30	40	50	60	65	80
B1	28	38	48	58	63	78
H	23	33	43	53	53	68
J	30	30	40	40	45	50
X	11,5	16,5	21,5	26,5	26,5	34
X1	25	33	39	50	55	70
Ø min/max A	4 - 10	7 - 18	9 - 24	9 - 24	9 - 24	10 - 28
Ø min/max B	6 - 16	9 - 24	13 - 38	15 - 40	15 -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

## Ganascce 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	2.21.72000	2.21.73000	2.21.74000	2.21.75000	2.21.76000
<b>Art. 218</b> W2 Ganascia mobile guidata prismatica. Larghezza ridotta (W2) Prismatic guided movable jaw. Narrow width (W2)	Cod. 2.21.81000	2.21.82000	2.21.83000	2.21.84000	2.21.85000	2.21.86000



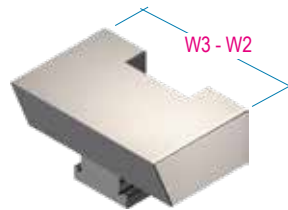
**Art. 152** W2  
Inserto prismatico.  
Larghezza ridotta (W2)  
Prismatic insert. Narrow width (W2)



Cod. 4.15.21000	4.15.22000	4.15.23000	4.15.24000	4.15.25000	4.15.26000
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## Ganascce per PARTICOLARI TONDI / Jaws for ROUND WORKPIECE

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



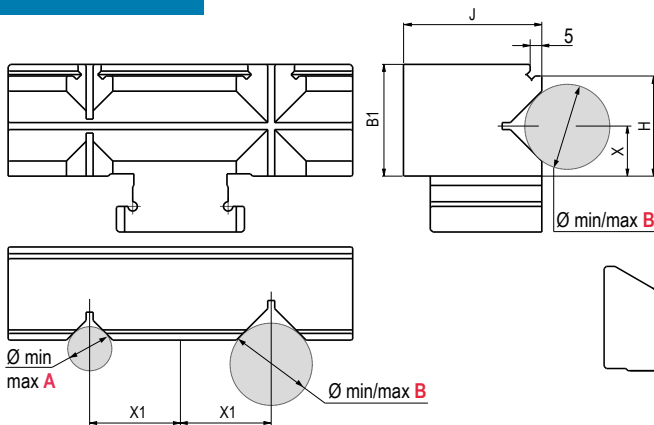
Cod. 2.21.01000	2.21.02000	2.21.03000	2.21.04000	2.21.05000	2.21.06000
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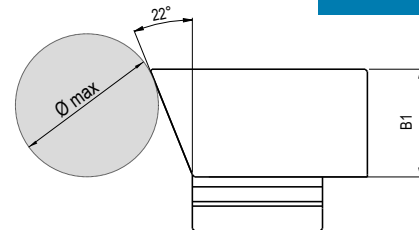
**Art. 211** W2  
Ganascia mobile oscillante.  
Larghezza ridotta (W2)  
Floating movable jaw. Narrow width (W2)

Cod. 2.21.11000	2.21.12000	2.21.13000	2.21.14000	2.21.15000	2.21.16000
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### Art. 217



### Art. 210



### Art. 152

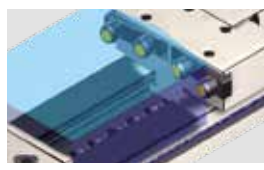
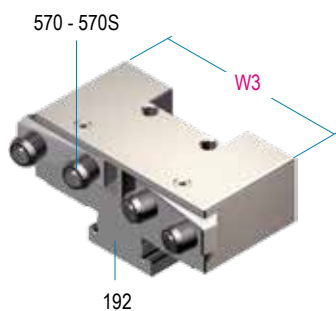
mm	1	2	3	4	5	6
W3	96	121	146	171	196	296
W2	74	94	124	144	169	194
B1	28	38	48	58	63	78
H	23	33	43	53	53	68
J	50	60	80	90	100	120
X	11,5	16,5	21,5	26,5	31,5	34
X1	25	33	39	50	50	70
Ø min / max A	Art. 217	4 - 10	7 - 18	9 - 24	9 - 24	10 - 28
Ø min / max B	Art. 217	6 - 16	9 - 24	13 - 38	15 - 40	18 - 46
Ø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

# Ganascce MOBILI OLEODINAMICHE / HYDRAULIC MOVABLE jaws

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
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## Art. 192

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

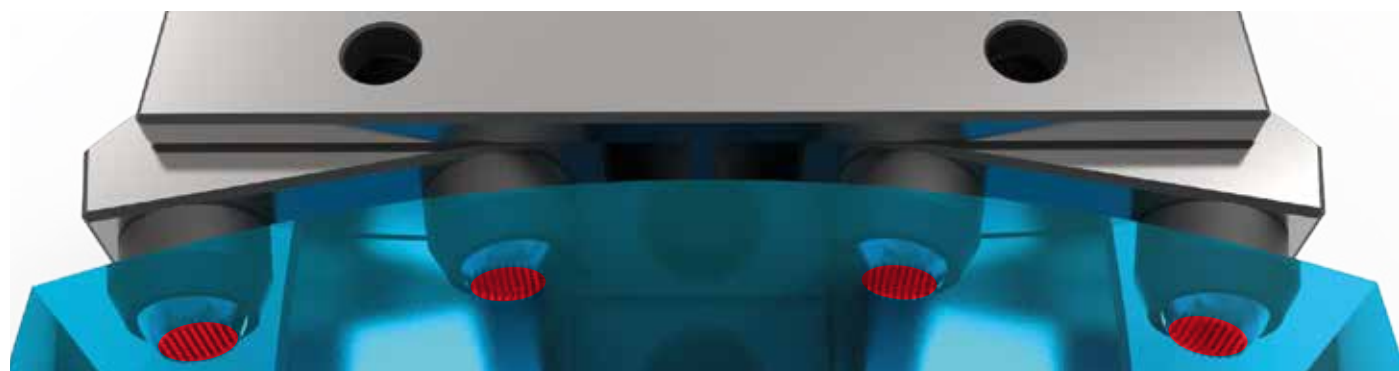


Per serraggio di particolari irregolari  
 For irregular workpieces clamping

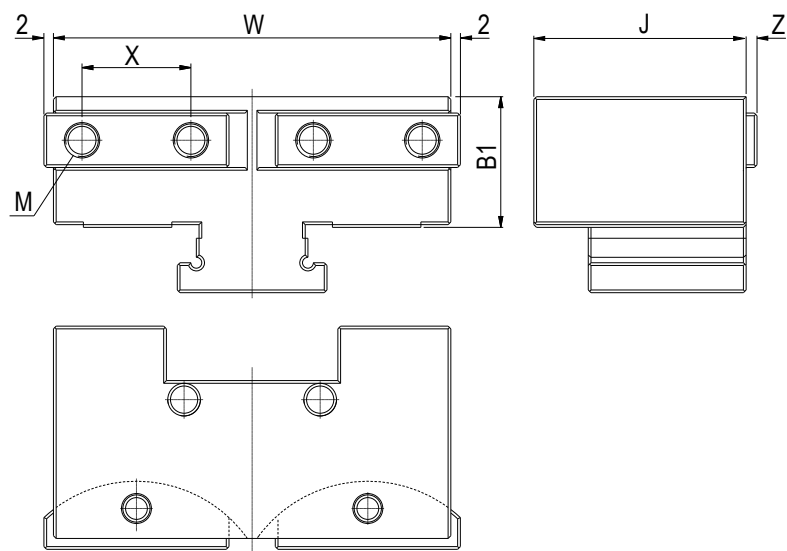
## Art. 192S

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
Cod.	4.19.2S100	4.19.2S200	4.19.2S300	4.19.2S400	4.19.2S500	4.19.2S600



## 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 opportunità 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**

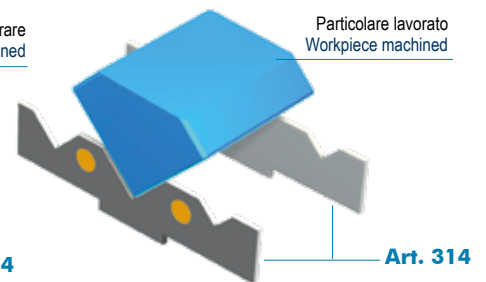
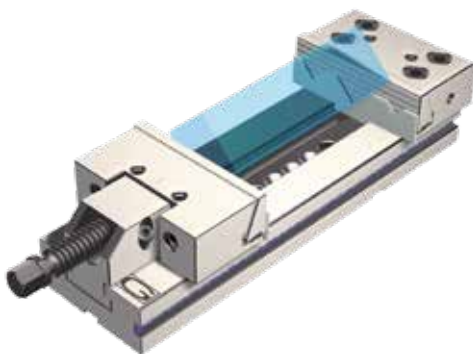
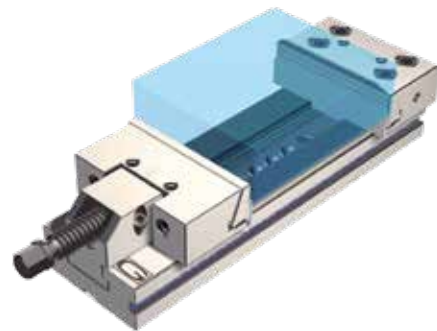
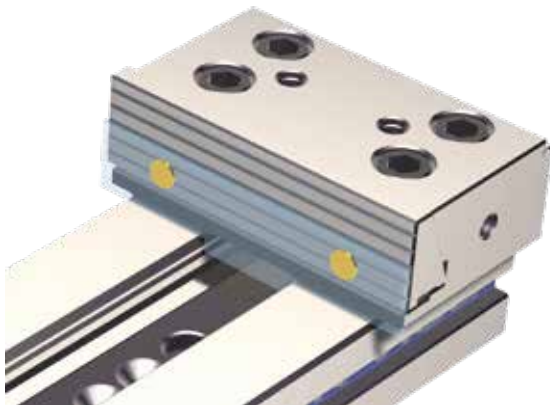
#### VANTAGGI:

- Rapidità e precisione di installazione.
  - Risparmio rispetto alla sostituzione della ganasceia 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:

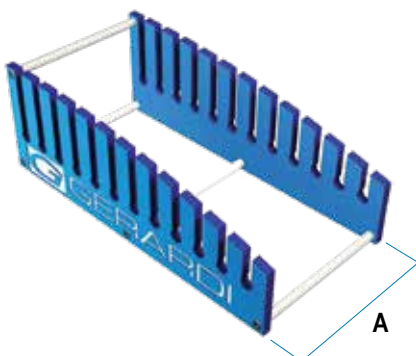
- Quick and accurate positioning.
  - Saving with respect to the substitution of the whole jaw.
  - Space and money saving with respect to the standard parallel plates.
  - Use magnetic plates with jaw plates completely tightened
- Of course each component is made of hardened and ground spring steel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

## ESEMPI DI APPLICAZIONE - TYPICAL ARRANGEMENTS



### Art. 317

Rastrelliera per piastre parallele magnetiche piane e angolari  
Rack for straight and angular parallel 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

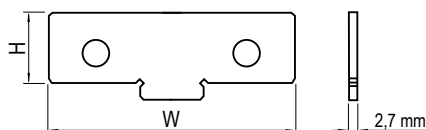
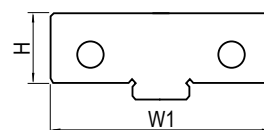
**Risparmio del 33 % sulla rastrelliera Art. 317 (Vuota) se acquistata insieme al set piccolo o grande di parallele magnetiche piane o angolari!**

**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**


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

**Art. 313**

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

**Art. 313R**
**Art. 313R**

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

 Specificare sempre quota H  
 Specify always H dimension

**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. 4.24

The rack Art. 317 (empty) is NOT included in the price of the set. See pag. 4.24

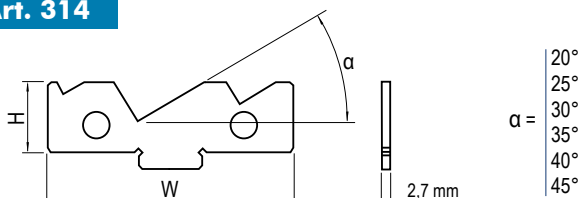
W	100	125	150	175	200	300
H Standard for INSERT GRIP	-	-	-	20	20	30
	-	-	15	25	25	35
	-	15	20	30	30	40
	-	20	25	35	35	45
	15	25	30	40	40	50
	18	28	35	45	45	54
	20	30	40	50	50	60
	23	33	43	53	53	68
	25	35	45	55	57	70
	27	37	47	57	60	75

**Art. 310**
**Art. 311**

Cod.	4.31.01000	4.31.02000	4.31.03000	4.31.04000	4.31.05000	4.31.06000
Cod.	-	-	4.31.13000	4.31.14000	4.31.15000	4.31.16000

**Art. 314**

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

**Art. 314**


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

 Specificare sempre quota alpha  
 Specify always alpha dimension

**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
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

**Art. 313A**

 Coppia di magneti per parallele  
 Pair of magnets for parallels


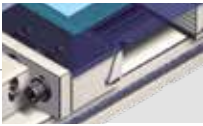











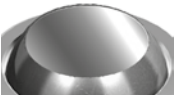
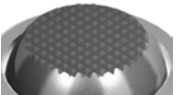
**NON MODULARI - NOT MODULAR**

Richiedono aggiustaggio in opera - Adjustment needed before working

Cod.	4.31.3A100
------	------------

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 ganasca 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
<b>Art. 134</b> Prolunga per ganasca 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
		<b>Art. 133</b> Prolunga per ganasca fissa. Larghezza normale Extension for fixed jaw. Normal width		Cod.	2.13.31000	2.13.32000	2.13.33000	2.13.34000
<b>Art. 135</b> Prolunga per ganasca 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
<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
		<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
<b>Art. 380</b> Vite TCEI fissaggio corpo ganasca fissa Hex socket and screw for fixed jaw body				Cod.	0.01.11030	0.01.10865	0.01.11450	0.01.11660
		<b>Art. 381</b> Vite TCEI fissaggio piastra ganasca fissa Hex socket screw for fixed plate		Cod.	0.01.10565	0.01.11240	0.01.11451	0.01.11661
<b>Art. 382</b> Vite TCEI fissaggio piastra ganasca mobile Hex socket and screw for movable jaw plate				Cod.	0.01.10525	0.01.10830	0.01.10840	0.01.10845
		<b>Art. 383</b> Vite TCEI fissaggio piastra ganasca fissa doppia Hex socket and screw for double fixed jaw		Cod.	0.01.10520	0.01.10620	0.01.10820	0.01.11820
<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
		<b>Art. 431</b> Rondella per arresto laterale Washer for workstop		Cod.	2.43.11000	2.43.12000	2.43.13000	2.43.14000
<b>Art. 440</b> Dado per arresto laterale Nut for workstop				Cod.	2.44.01000	2.44.02000	2.44.03000	2.44.04000
		<b>Art. 570</b> Puntale sferico liscio Smooth spherical point		Cod.	1.57.01000	1.57.02000	1.57.03000	1.57.04000
<b>Art. 570S</b> Puntale sferico zigrinato Serrated spherical point				Cod.	1.57.0S100	1.57.0S200	1.57.0S300	1.57.0S400

## CORPI GANASCE STANDARD / BODIES STANDARD JAWS

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
<b>Art. 300</b> 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>Art. 301</b> 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>Art. 303</b> 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>Art. 304</b> 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>Art. 306</b> 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>Art. 302</b> <b>NEW!</b> Corpo ganascia mobile oscillante. Larghezza normale Body floating movable jaws. Normal width	Cod. 4.30.21000	4.30.22000	4.30.23000	4.30.24000	4.30.25000	4.30.26000
<b>Art. 307</b> 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>Art. 305</b> <b>NEW!</b> Corpo ganascia mobile guidata. Larghezza normale Body guided movable jaw. Normal width	Cod. 4.30.51000	4.30.52000	4.30.53000	4.30.54000	4.30.55000	4.30.56000
<b>Art. 308</b> 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>Art. 309</b> 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>Art. 190</b> 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

## CORPI GANASCE PIANE / BODY - STRAIGHT JAWS

**Tipo (grandezza) morsa / Vise type (size)**
**Art. 315**

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


Cod.	1	2	3	4	5	6
1.35.11800	1.35.21800	1.35.31800	1.35.41800	1.35.51800	1.35.61800	

**Art. 316**

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


Cod.	1	2	3	4	5	6
1.35.12100	1.35.22100	1.35.32100	1.35.42100	1.35.52100	1.35.62100	

**Art. 318**

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


Cod.	1	2	3	4	5	6
1.35.12700	1.35.22700	1.35.32700	1.35.42700	1.35.52700	1.35.62700	

**Art. 319**

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


Cod.	1	2	3	4	5	6
1.35.13000	1.35.23000	1.35.33000	1.35.43000	1.35.53000	1.35.63000	

**Art. 321**

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


Cod.	1	2	3	4	5	6
1.36.11600	1.36.21600	1.36.31600	1.36.41600	1.36.51600	1.36.61600	

**Art. 322**

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


Cod.	1	2	3	4	5	6
1.36.12200	1.36.22200	1.36.32200	1.36.42200	1.36.52200	1.36.62200	

**Art. 323**

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


Cod.	1	2	3	4	5	6
1.36.11300	1.36.21300	1.36.31300	1.36.41300	1.36.51300	1.36.61300	

**Art. 324**

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


Cod.	1	2	3	4	5	6
1.36.11900	1.36.21900	1.36.31900	1.36.41900	1.36.51900	1.36.61900	

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

**Art. 300A**

 Corpo ganascia fissa  
 Fixed jaw body


Cod.	1	2	3	4	5	6
1.30.0A100	1.30.0A200	1.30.0A300	1.30.0A400	1.30.0A500	1.30.0A600	

**Art. 303A**

 Corpo ganascia fissa doppia  
 Double fixed jaw body

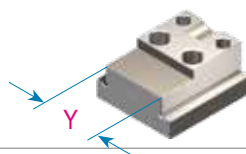

Cod.	1	2	3	4	5	6
1.30.3A100	1.30.3A200	1.30.3A300	1.30.3A400	1.30.3A500	1.30.3A600	

**Art. 306A**

 Corpo ganascia mobile guidata  
 Guided movable jaw body

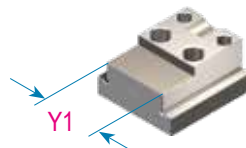

Cod.	1	2	3	4	5	6
1.30.6A100	1.30.6A200	1.30.6A300	1.30.6A400	1.30.6A500	1.30.6A600	

**Art. 306B**

 Pattino per ganasce mobili guidate  
 Sliding plate for guided movable jaw


Cod.	1	2	3	4	5	6
1.30.6B100	1.30.6B200	1.30.6B300	1.30.6B400	1.30.6B500	1.30.6B600	

**Art. 306C**

 Pattino per ganasce mobili oscillanti  
 Sliding plate for floating movable jaw


Cod.	1	2	3	4	5	6
1.30.6C100	1.30.6C200	1.30.6C300	1.30.6C400	1.30.6C500	1.30.6C600	

 $Y1 = Y - 1\text{mm}$

## 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

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>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

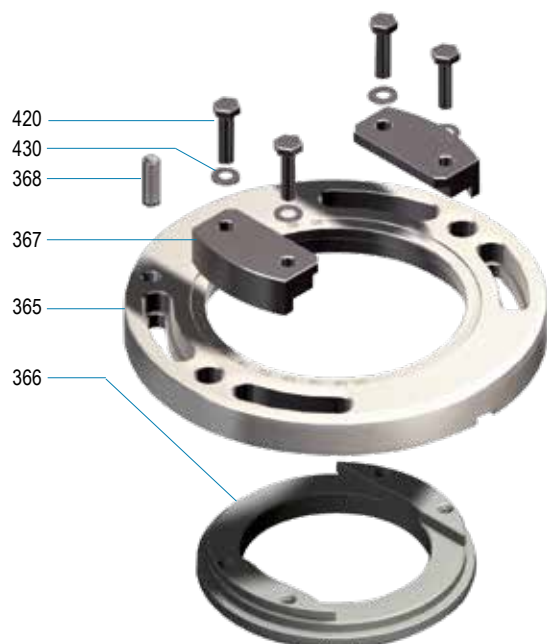
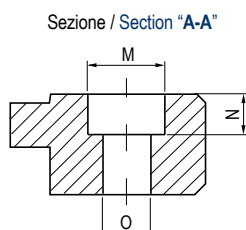
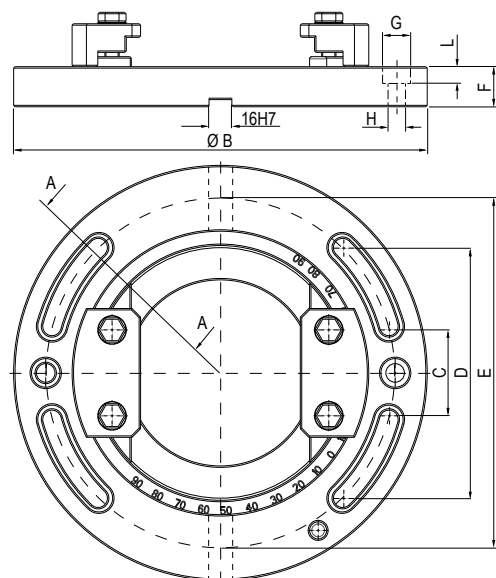
<b>Art. 367</b> Staffa per base girevole Clamp swivel base						
Cod.	1.84.10000	1.84.20000	1.84.30000	1.84.40000	1.84.50000	1.84.60000

<b>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>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>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

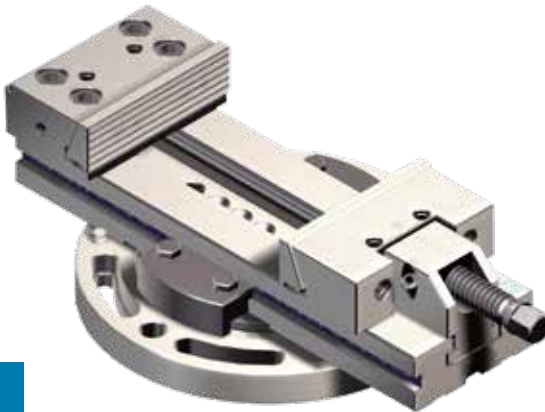
**Art. 105** Base girevole / Swivel base  
 (Art. 365 + 366 + 367 + 368 + 420 + 430)



**GRUPPI PREASSEMBLATI / PRE-ASSEMBLED GROUP**

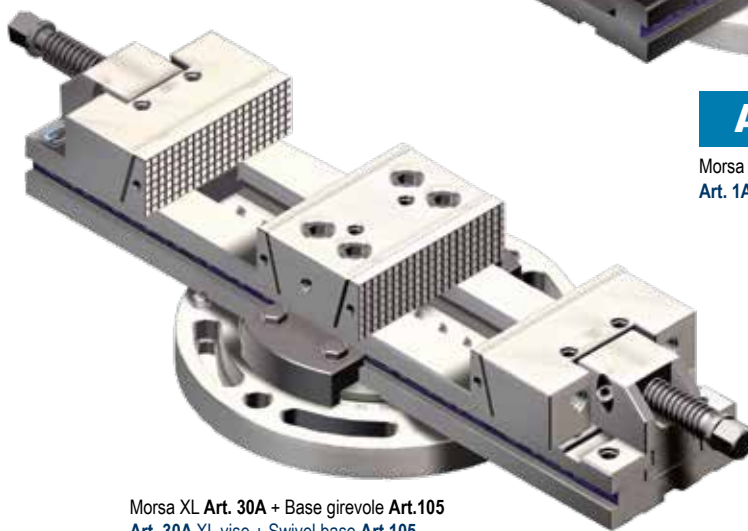
**Art. 2**

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

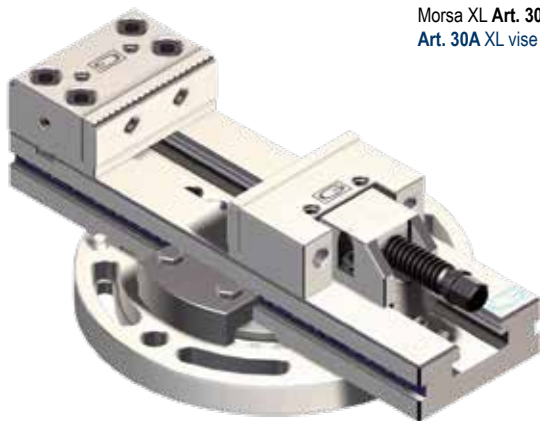


**Art. 2A**

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**

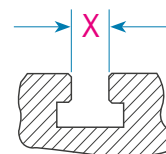
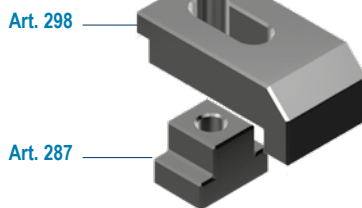
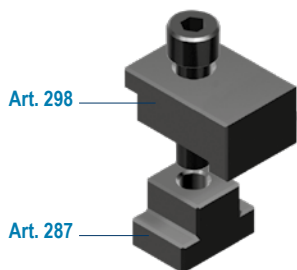
Morsa STD Art. 1 + Base girevole Art.105  
Art. 1 STD vise + Swivel base Art.105

4

# 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)



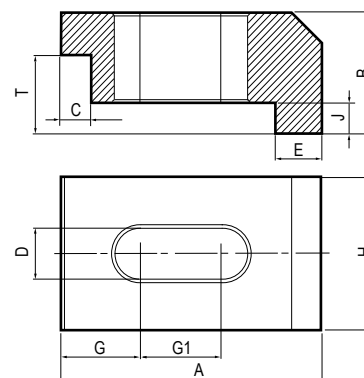
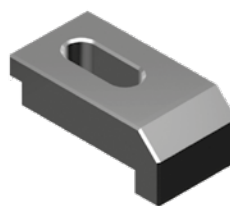
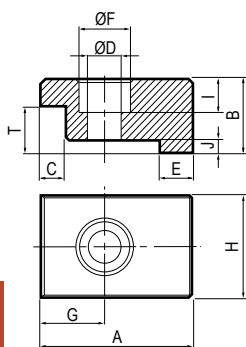
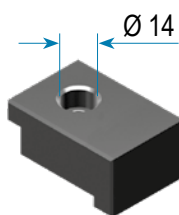
Specificare sempre la cava della vostra macchina

Always specify the machine T-slot dimension

Morse / Vises	Tipo (grandezza) morsa / 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	<b>1 x M8</b>	<b>1 x M10</b>	<b>1 x M12</b>	<b>1 x M16</b>	<b>2 x M12</b>	<b>2 x M16</b>	<b>3 x M12</b>	<b>3 x M16</b>
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

**Art. 298**

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

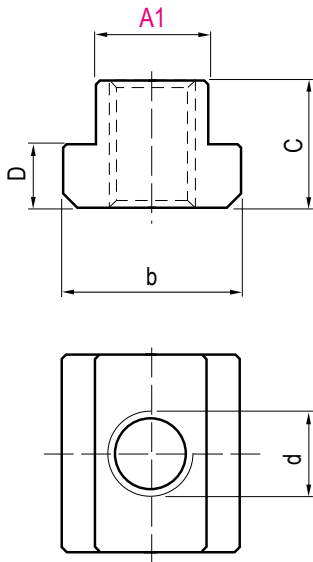

**Solo per tipo 1 x M8**  
**Only for type 1 x M8**

Morse / Vises	Tipo (grandezza) morsa / 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	<b>1 x M8</b>	<b>1 x M10</b>	<b>1 x M12</b>	<b>1 x M16</b>	<b>1 x M12</b>	<b>1 x M16</b>	<b>1 x M12</b>	<b>1 x M16</b>
A	50	50	50	50	76	76	86	86
B	24	24	24	24	30	30	40	40
C	6	6	6	6	6	6	10	10
ØD	<b>8,5</b>	<b>11</b>	<b>13</b>	<b>17</b>	<b>13</b>	<b>17</b>	<b>13</b>	<b>17</b>
E	10	10	10	10	13	13	15	15
ØF	<b>14</b>	-	-	-	-	-	-	-
G / G1	<b>17</b>	<b>16 / 15</b>	<b>17,5 / 13</b>	<b>19 / 9</b>	<b>17 / 22</b>	<b>16 / 15</b>	<b>26 / 27</b>	<b>26 / 27</b>
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

# 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

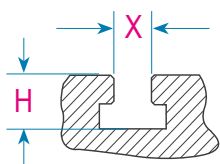
In the purchase order  
specify the **N** number  
of the T nut in the code

### 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

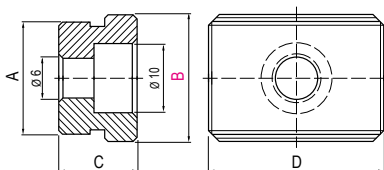


**ATTREZZI e DOTAZIONI / TOOLS and EQUIPMENT**

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	16	18	20	22	24	28	36
C	10	10	10	10	10	12	12	12	12	12
D	25									
Cod.	2.29.71000									

**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

**Art. 325**

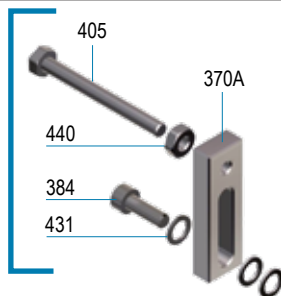
 Chiave esagonale a bussola  
 Hexagon bushing


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
CH	22	24	27	30	32	-
Cod.	0.09.32522	0.09.32524	0.09.32527	0.09.32530	0.09.32532	-

**Art. 370**

 Arresto laterale completo  
 Complete workstop

Art. 370



Cod.	2.37.01000	2.37.03000	2.37.05000
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**Art. 405**

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

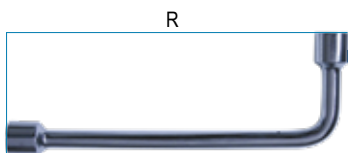
Cod.	1.77.10120	1.77.16180
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**Art. 370A**

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

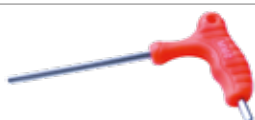
Cod.	2.37.0A100	2.37.0A300	2.37.0A500
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**Art. 375**

 Chiave a pipa  
 Box wrench


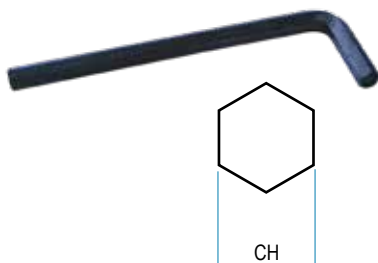
CH	12	19	22	30
R	200	250	285	480
Cod.	0.09.41160	0.09.42180	0.09.43320	0.09.43360

**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

**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
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
CH	12	13	14	17	19	-
Cod.	0.09.37712	0.09.37713	0.09.37714	0.09.37717	0.09.37719	-

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

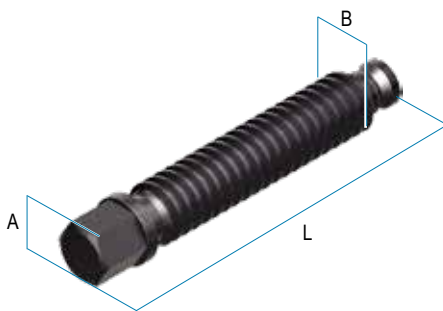

Nm	10÷135	20÷200	34÷340
Cod.	2.35.71000	2.35.72000	2.35.73000

**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

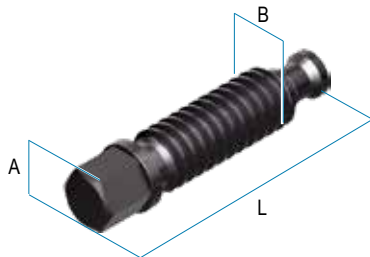
 Per le forze di serraggio vedi pag. 4.00  
 For clamping force see page 4.00

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

 Vite di spinta. Normale  
 Clamping bolt. Normal


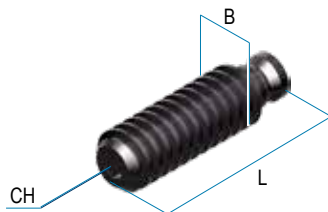
A	12	19	22	30
B	M12	TPN 18 x 4	TPN 24 x 5	TPN 30 x 5
L	100	130	150	190
Cod.	1.90.10144	1.90.20184	1.90.30245	1.90.50366

**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

**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

**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

**Art. 410**

 Grano  
 Setscrew





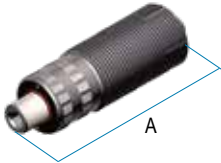

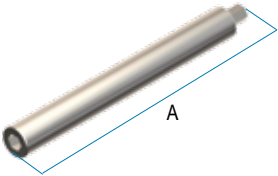

	0.06.20810	0.06.21012	0.06.21216	0.06.21620	0.06.21630	0.06.31360
Cod.	M8 x 20	M10 x 25	M12 x 30	M12 x 40	M20 x 50	M20 x 50
	CH. 3	CH. 5	CH. 6	CH. 6	CH. 10	CH. 10

**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"

# 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	
<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	
<b>Art. 286</b> Mandrino a vite idraulica Hydraulic spindle						
Kn	-	12	20			
A	-	420	359			
Cod.	-	4.28.63000	4.28.65000			
<b>Art. 295</b> Gruppo di serraggio a vite idraulica compatto Compact hydraulic hand screw clamping device						
Cod.	-	4.29.53000	4.29.54000	-	-	
<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	-	-	
<b>Art. 293</b> Mandrino compatto a vite idraulica Compact hydraulic spindle						
Kn	-	10	-			
A	-	173				
Cod.	-	4.29.33000	4.29.34000	-	-	
<b>Art. 290</b> Manovella per mandrino a vite idraulica Crank hydraulic spindle						
Cod.	-		0.09.73000			
<b>Art. 292</b> Prolunga per Art. 290 Extension for Art. 290						
A	160 / 260					
Cod.	-	4.29.23000				

## METODI ALTERNATIVI DI SERRAGGIO

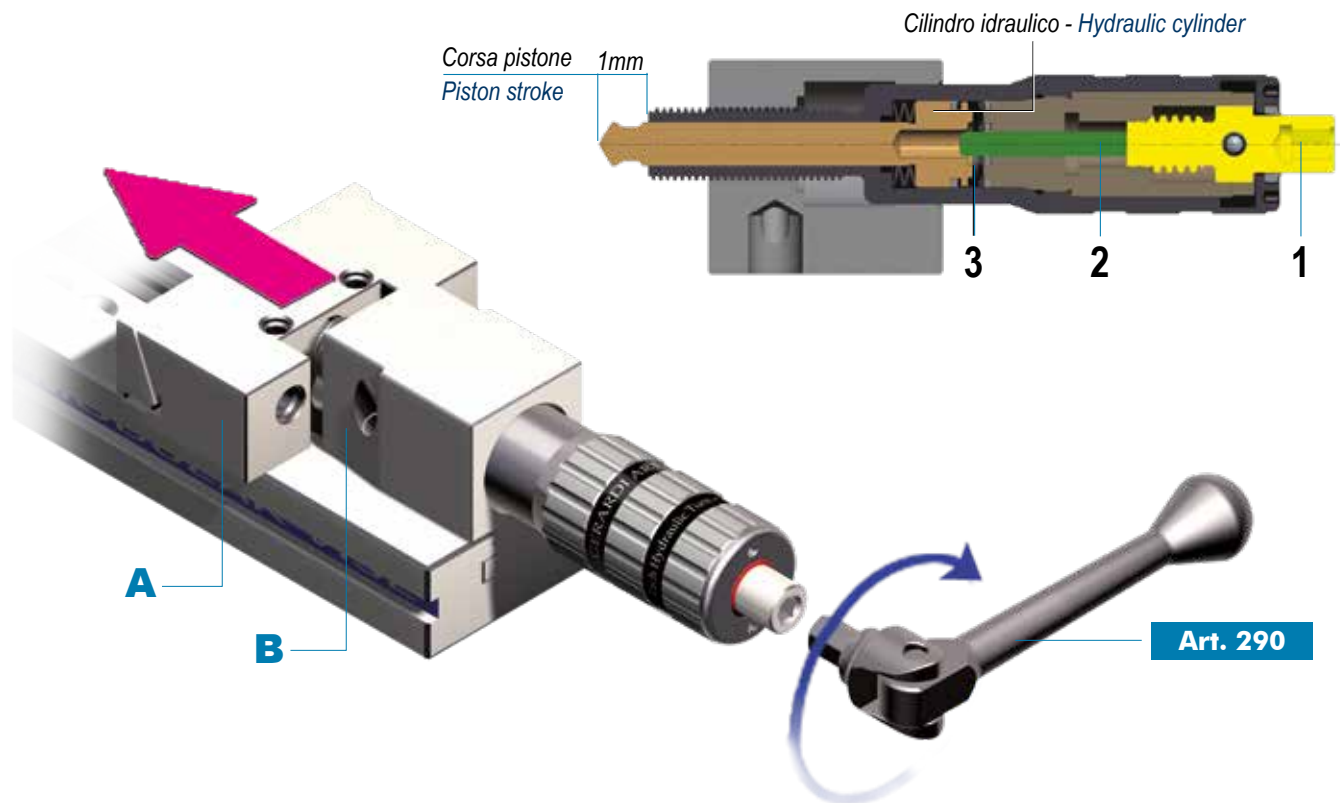
### ALTERNATIVE CLAMPING OPTION

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.**



**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

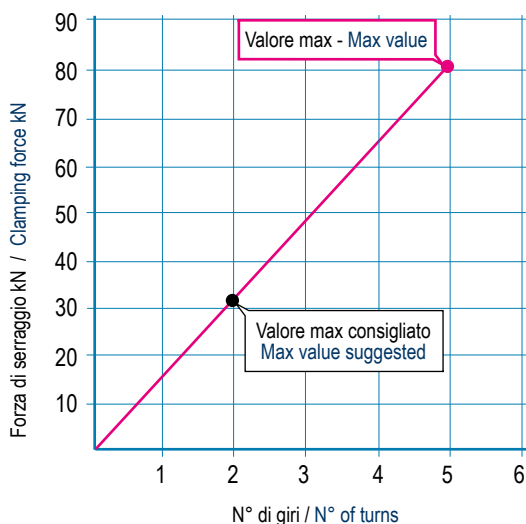
( Art. 257 - Art. 295 )

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

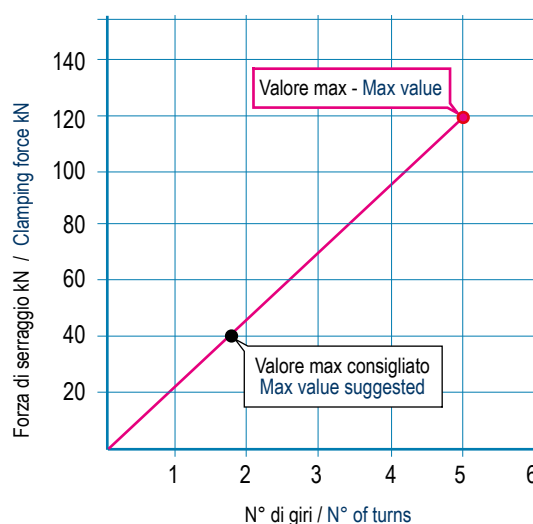
Gruppo di serraggio a Vite Idraulica TIPO **3/4**  
Hydraulic hand screw clamping device TYPE



### Art. 257

Autonomo - Self contained

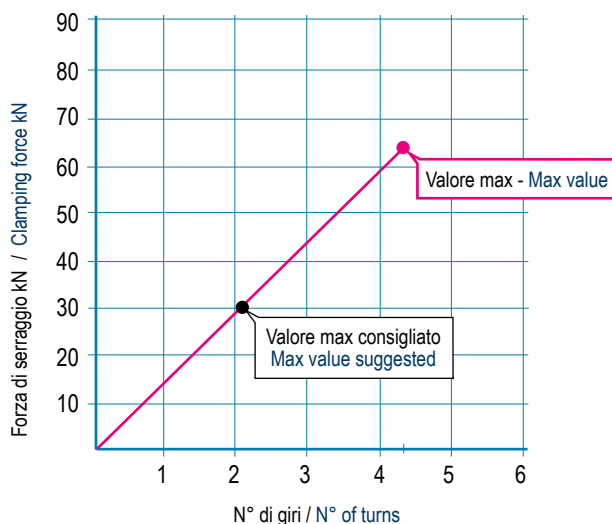
Gruppo di serraggio a Vite Idraulica TIPO **5/6**  
Hydraulic hand screw clamping device TYPE



### 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)**

<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>	<b>6</b>
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**Art. 271**

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

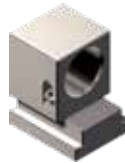

Cod.	2.27.11000	2.27.12000	2.27.13000	2.27.14000	2.27.15000	2.27.16000
Corsa Stroke	30	40				

**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
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
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**Art. 285**

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

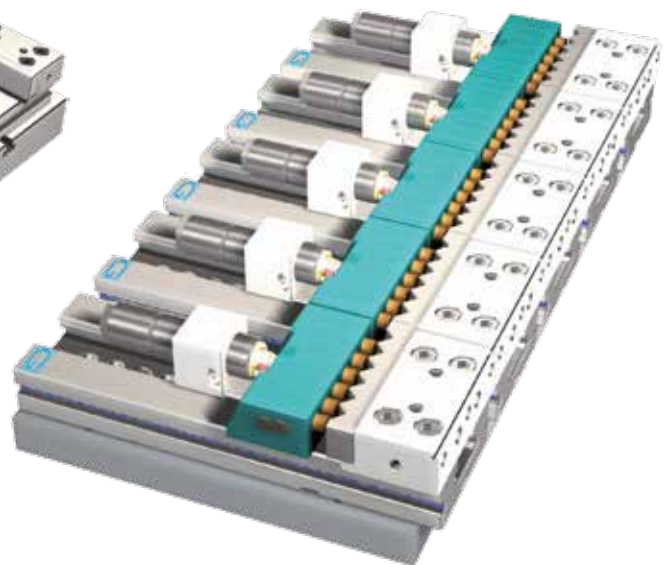
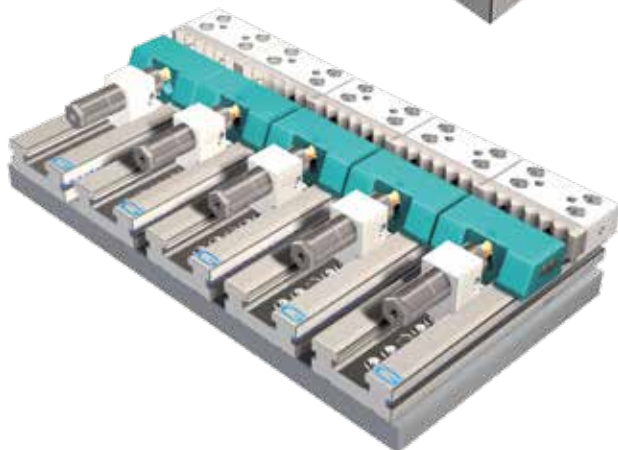

Cod.	2.28.51000	2.28.52000	2.28.53000	2.28.55000
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**Art. 569**

 Cilindro idraulico a doppio effetto. Apertura e chiusura idrauliche  
 Hydraulic cylinder double acting. Hydraulic opening and clamping


Cod.	1.56.91000	1.56.92000	1.56.93000	1.56.95000
------	------------	------------	------------	------------

*Specifico per sistemi robotizzati - Specific for robotic applications*
**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



Art. 285A	Cilindro / Cylinder	Cod.	4.28.5A100	4.28.5A200	4.28.5A300	4.28.5A500
Art. 285B	Guarnizione pistone / Piston seal	Cod.	4.28.5B100	4.28.5B200	4.28.5B300	4.28.5B500
Art. 285C	Pistone / Piston	Cod.	4.28.5C100	4.28.5C200	4.28.5C300	4.28.5C500
Art. 285D	Molla / Spring	Cod.	4.28.5D100	4.28.5D200	4.28.5D300	4.28.5D500
Art. 285E	Bussola / Bushing	Cod.	4.28.5E100	4.28.5E200	4.28.5E300	4.28.5E500
Art. 285F	Ghiera / Blocking nut	Cod.	4.28.5F100	4.28.5F200	4.28.5F300	4.28.5F500
Art. 285G	Guarnizione / Seal	Cod.	4.28.5G100	4.28.5G200	4.28.5G300	4.28.5G500
Art. 285H	Anello guida / Guiding ring	Cod.	4.28.5H100	4.28.5H200	4.28.5H300	4.28.5H500

Diametro filettato cilindro / Cylinder O.D.

30      40      40      50

Corsa / Stroke

30      40      40      40

Area effettiva del cilindro / Cylinder effective area

3      7      7      9,6

Pressione max. d'esercizio / Max operating pressure: **bar (1 bar = 14,5 psi)**

450

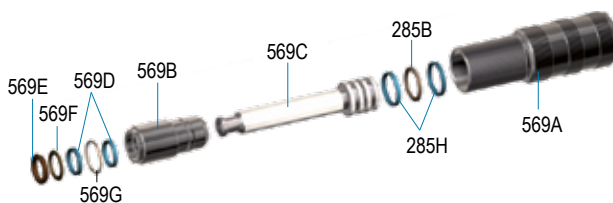
Pressione max. d'esercizio / Max operating pressure: **psi (1 psi = 0,069 bar)**

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



Art. 569A	Cilindro / Cylinder	Cod.	4.56.9A100	4.56.9A200	4.56.9A300	4.56.9A500
Art. 285B	Guarnizione pistone / Piston seal	Cod.	4.28.5B100	4.28.5B200	4.28.5B300	4.28.5B500
Art. 569B	Prolunga cilindro / Cylinder extension	Cod.	4.56.9B100	4.56.9B200	4.56.9B300	4.56.9B500
Art. 569C	Pistone / Piston	Cod.	4.56.9C100	4.56.9C200	4.56.9C300	4.56.9C500
Art. 569D	Anello guida / Guiding ring	Cod.	4.56.9D100	4.56.9D200	4.56.9D300	4.56.9D500
Art. 569E	Raschiatore / Scraping seal	Cod.	4.56.9E100	4.56.9E200	4.56.9E300	4.56.9E500
Art. 569F	Guarnizione cilindro / Cylinder seal	Cod.	4.56.9F100	4.56.9F200	4.56.9F300	4.56.9F500
Art. 569G	Guarnizione / Seal	Cod.	4.56.9G100	4.56.9G200	4.56.9G300	4.56.9G500
Art. 285H	Anello guida / Guiding ring	Cod.	4.28.5H100	4.28.5H200	4.28.5H300	4.28.5H500

Diametro filettato cilindro / Cylinder O.D.

30      40      40      50

Corsa / Stroke

20      33      33      40

Area effettiva del cilindro / Cylinder effective area

3      7      7      9,6

Pressione max. d'esercizio / Max operating pressure: **bar (1 bar = 14,5 psi)**

450

Pressione max. d'esercizio / Max operating pressure: **psi (1 psi = 0,069 bar)**

6525

# COMANDO MANUALE singolo effetto / Single effect MANUAL CONTROL

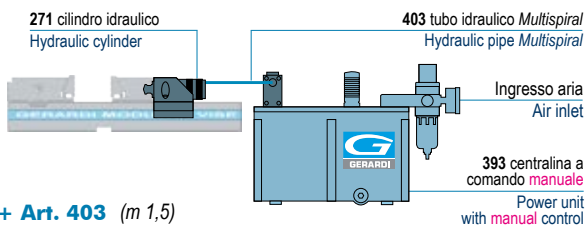
Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
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## Art. 390

N° 1 serraggio  
N° 1 clamping

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

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



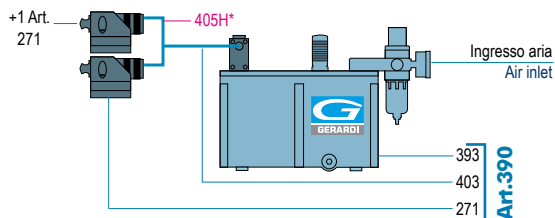
Cod. 4.39.01000 4.39.02000 4.39.03000 4.39.04000 4.39.05000 4.39.06000

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## 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

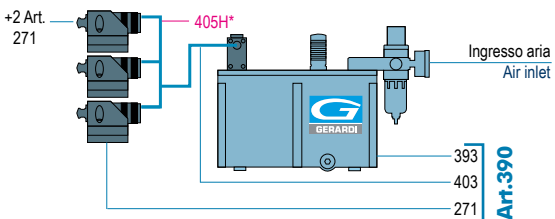
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\* Non incluso (Pag. 4.48) / Not included (Pag. 4.48) 405H\*

## 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

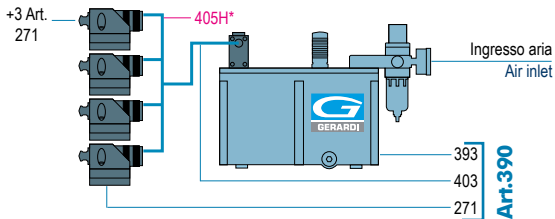
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\* Non incluso (Pag. 4.48) / Not included (Pag. 4.48)

## 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

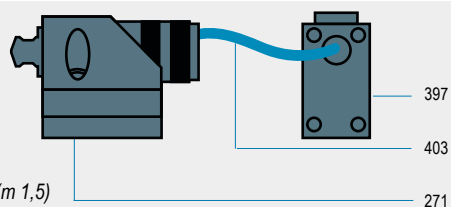
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\* Non incluso (Pag. 4.48) / Not included (Pag. 4.48)

## Art. 407

Gruppo di serraggio indipendente  
Independent clamping group

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



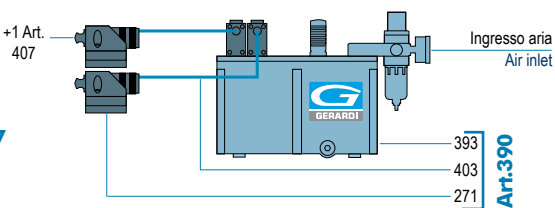
Cod. 4.40.71000 4.40.72000 4.40.73000 4.40.74000 4.40.75000 4.40.76000

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## Art. 390A / 2

N° 2 serraggi indipendenti  
N° 2 independent clamping

Art. 390 + n° 1 Art. 407



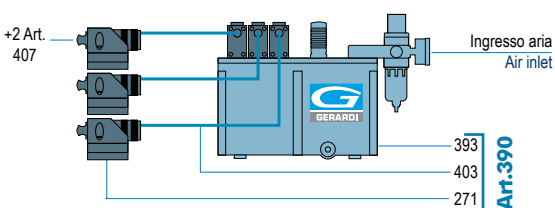
Cod. 4.39.0A102 4.39.0A202 4.39.0A302 4.39.0A402 4.39.0A502 4.39.0A602

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## Art. 390A / 3

N° 3 serraggi indipendenti  
N° 3 independent clamping

Art. 390 + n° 2 Art. 407



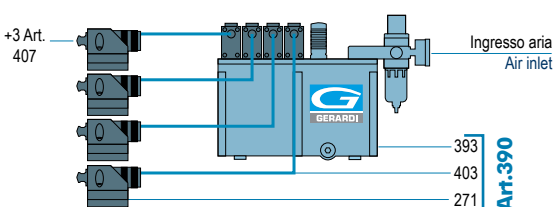
Cod. 4.39.0A103 4.39.0A203 4.39.0A303 4.39.0A403 4.39.0A503 4.39.0A603

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## 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

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# COMANDO ELETTRICO singolo effetto da CNC / Single effect SOLENOID CONTROL by CNC

Tipo (grandezza) morsa / Vise type (size)

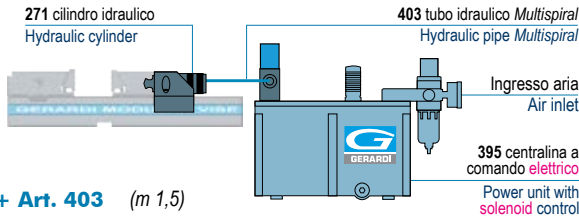
1 2 3 4 5 6

## Art. 391

N° 1 serraggio  
N° 1 clamping

**MORSA NON COMPRESA**  
VISE NOT INCLUDED

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



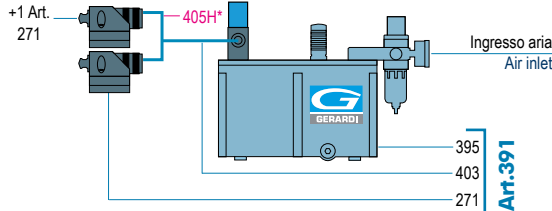
Cod. 4.39.11000 4.39.12000 4.39.13000 4.39.14000 4.39.15000 4.39.16000

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## 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

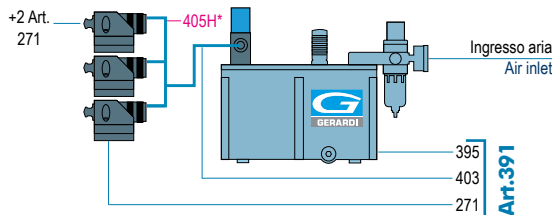
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\* Non incluso (Pag. 4.48) / Not included (Pag. 4.48)

## 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

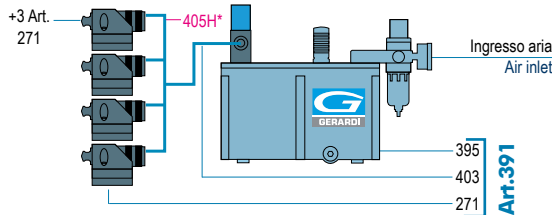
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\* Non incluso (Pag. 4.48) / Not included (Pag. 4.48)

## 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

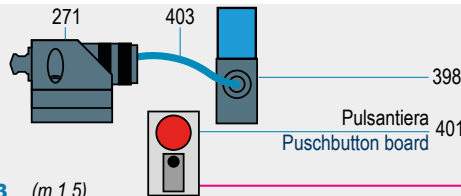
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\* Non incluso (Pag. 4.48) / Not included (Pag. 4.48)

## Art. 407A

Gruppo di serraggio indipendente  
Independent clamping group

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



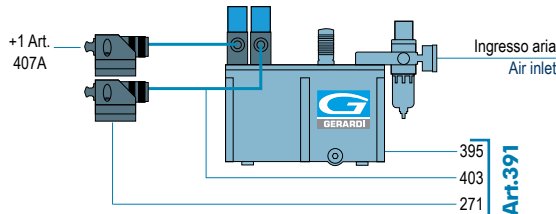
Cod. 4.40.7A100 4.40.7A200 4.40.7A300 4.40.7A400 4.40.7A500 4.40.7A600

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## Art. 391A / 2

N° 2 serraggi indipendenti  
N° 2 independent clamping

Art. 391 + n° 1 Art. 407A



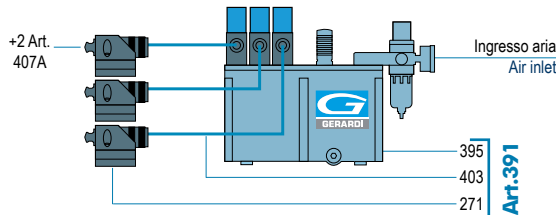
Cod. 4.39.1A102 4.39.1A202 4.39.1A302 4.39.1A402 4.39.1A502 4.39.1A602

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## Art. 391A / 3

N° 3 serraggi indipendenti  
N° 3 independent clamping

Art. 391 + n° 2 Art. 407A



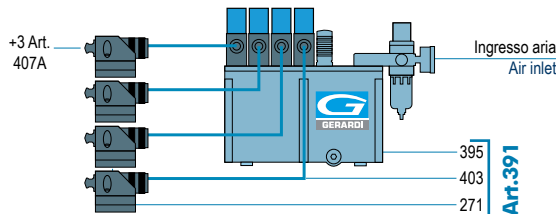
Cod. 4.39.1A103 4.39.1A203 4.39.1A303 4.39.1A403 4.39.1A503 4.39.1A603

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## Art. 391A / 4

N° 4 serraggi indipendenti  
N° 4 independent clamping

Art. 391 + n° 3 Art. 407A



Cod. 4.39.1A104 4.39.1A204 4.39.1A304 4.39.1A404 4.39.1A504 4.39.1A604

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# COMANDO PNEUMATICO singolo effetto / Single effect PNEUMATIC CONTROL

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
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**Art. 392**

402/90 Valvola pneumatica  
Pneumatic valve

271 cilindro idraulico  
Hydraulic cylinder

403 tubo idraulico Multispiral  
Hydraulic pipe Multispiral

N° 1 serraggio  
N° 1 clamping

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

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

Ingresso aria  
Air inlet

394 centralina a comando pneumatico  
Power unit with air control valve

Cod.	4.39.21000	4.39.22000	4.39.23000	4.39.24000	4.39.25000	4.39.26000
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\* Non incluso (Pag. 4.48) / Not included (Pag. 4.48)

**Art. 392 / 2**

N° 2 serraggi contemporanei  
N° 2 simultaneously clamping

**Art. 392 + n° 1 Art. 271**

+1 Art. 271

-405H\*

Ingresso aria  
Air inlet

394  
402  
403  
271

**Art.392**

Cod.	4.39.21002	4.39.22002	4.39.23002	4.39.24002	4.39.25002	4.39.26002
------	------------	------------	------------	------------	------------	------------

\* Non incluso (Pag. 4.48) / Not included (Pag. 4.48)

**Art. 392 / 3**

N° 3 serraggi contemporanei  
N° 3 simultaneously clamping

**Art. 392 + n° 2 Art. 271**

+2 Art. 271

-405H\*

Ingresso aria  
Air inlet

394  
402  
403  
271

**Art.392**

Cod.	4.39.21003	4.39.22003	4.39.23003	4.39.24003	4.39.25003	4.39.26003
------	------------	------------	------------	------------	------------	------------

\* Non incluso (Pag. 4.48) / Not included (Pag. 4.48)

**Art. 392 / 4**

N° 4 serraggi contemporanei  
N° 4 simultaneously clamping

**Art. 392 + n° 3 Art. 271**

+3 Art. 271

-405H\*

Ingresso aria  
Air inlet

394  
402  
403  
271

**Art.392**

Cod.	4.39.21004	4.39.22004	4.39.23004	4.39.24004	4.39.25004	4.39.26004
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\* Non incluso (Pag. 4.48) / Not included (Pag. 4.48)

**Art. 407B**

402 Valvola pneumatica  
Pneumatic valve

Gruppo di serraggio indipendente  
Independent clamping group

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

396

403

271

Cod.	4.40.7B100	4.40.7B200	4.40.7B300	4.40.7B400	4.40.7B500	4.40.7B600
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**Art. 392A / 2**

N° 2 serraggi indipendenti  
N° 2 independent clamping

**Art. 392 + n° 1 Art. 407B**

+1 Art. 402

+1 Art. 271

Ingresso aria  
Air inlet

394  
402  
403  
271

**Art.392**

Cod.	4.39.2A102	4.39.2A202	4.39.2A302	4.39.2A402	4.39.2A502	4.39.2A602
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**Art. 392A / 3**

N° 3 serraggi indipendenti  
N° 3 independent clamping

**Art. 392 + n° 2 Art. 407B**

+2 Art. 402

+2 Art. 271

Ingresso aria  
Air inlet

394  
402  
403  
271

**Art.392**

Cod.	4.39.2A103	4.39.2A203	4.39.2A303	4.39.2A403	4.39.2A503	4.39.2A603
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**Art. 392A / 4**

N° 4 serraggi indipendenti  
N° 4 independent clamping

**Art. 392 + n° 3 Art. 407B**

+3 Art. 402

+2 Art. 271

Ingresso aria  
Air inlet

394  
402  
403  
271

**Art.392**

Cod.	4.39.2A104	4.39.2A204	4.39.2A304	4.39.2A404	4.39.2A504	4.39.2A604
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# 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

### Art. 397

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

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

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



Cod. 4.39.70000

### 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

### 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

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

### Art. 396B

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



Cod. 4.39.6B000

### 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

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



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

### Art. 398B

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



Cod. 4.39.8B000

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

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

# COMANDO MANUALE doppio effetto / Double effect MANUAL CONTROL

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

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

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
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**Art. 390B/2**

+1 Art. 271D

N° 2 serraggi *contemporanei* / N° 2 *simultaneously* clamping

**Art. 390B + n° 1 Art.271D**

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
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\* Non incluso (Pag. 4.48) / Not included (Pag. 4.48)

**Art. 390B/3**

+2 Art. 271D

N° 3 serraggi *contemporanei* / N° 3 *simultaneously* clamping

**Art. 390B + n° 2 Art.271D**

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
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\* Non incluso (Pag. 4.48) / Not included (Pag. 4.48)

**Art. 390B/4**

+3 Art. 271D

N° 4 serraggi *contemporanei* / N° 4 *simultaneously* clamping

**Art. 390B + n° 3 Art.271D**

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
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\* Non incluso (Pag. 4.48) / Not included (Pag. 4.48)

**Art. 407C**

Gruppo di serraggio *indipendente* / *Independent* clamping group

(m 1,5)

**Art.271D + Art. 403 + Art. 397D**

397D

403

271D

Cod.	4.40.7C100	4.40.7C200	4.40.7C300	4.40.7C400	4.40.7C500	4.40.7C600
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**Art. 390C / 2**

+1 Art. 407C

N° 2 serraggi *indipendenti* / N° 2 *independent* clamping

**Art. 390B + n° 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
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**Art. 390C / 3**

+2 Art. 407C

N° 3 serraggi *indipendenti* / N° 3 *independent* clamping

**Art. 390B + n° 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
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**Art. 390C / 4**

+3 Art. 407C

N° 4 serraggi *indipendenti* / N° 4 *independent* clamping

**Art. 390B + n° 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
------	------------	------------	------------	------------	------------	------------

# COMANDO ELETTRICO doppio effetto da CNC / Double effect SOLENOID CONTROL by CNC

Tipo (grandezza) morsa / Vise type (size)

1 2 3 4 5 6

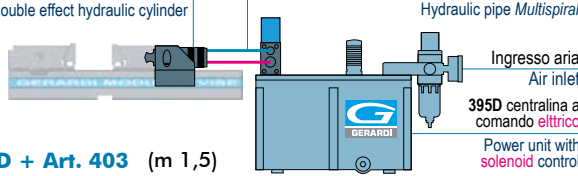
## Art. 391B

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**  
VISE NOT INCLUDED



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

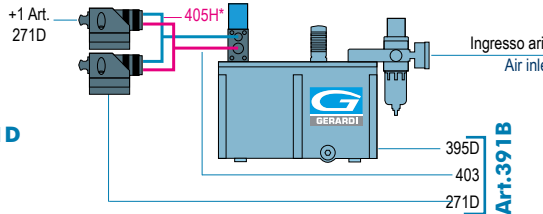
Art. 395D + Art.271D + Art. 403 (m 1,5)

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## 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

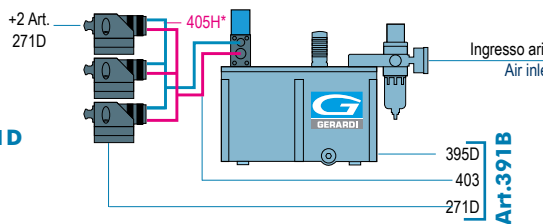
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\* Non incluso (Pag. 4.48) / Not included (Pag. 4.48)

## 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

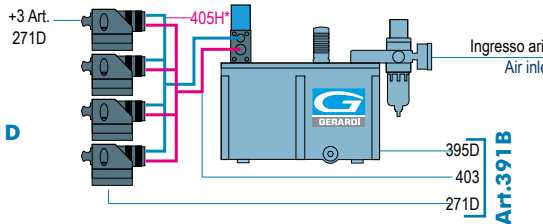
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\* Non incluso (Pag. 4.48) / Not included (Pag. 4.48)

## 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

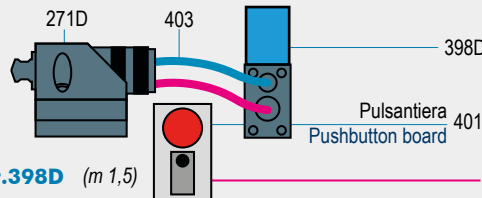
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\* Non incluso (Pag. 4.48) / Not included (Pag. 4.48)

## Art. 407D

Gruppo di serraggio indipendente  
Independent clamping group

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



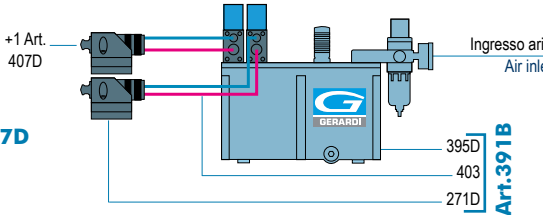
Cod. 4.40.7D100 4.40.7D200 4.40.7D300 4.40.7D400 4.40.7D500 4.40.7D600

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## Art. 391C / 2

N° 2 serraggi indipendenti  
N° 2 independent clamping

Art. 391B + n° 1 Art. 407D



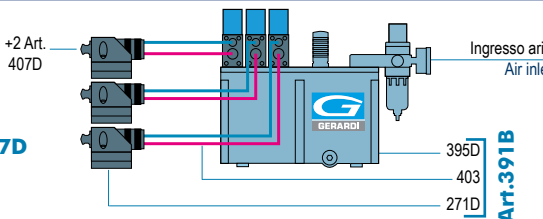
Cod. 4.39.1C102 4.39.1C202 4.39.1C302 4.39.1C402 4.39.1C502 4.39.1C602

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## Art. 391C / 3

N° 3 serraggi indipendenti  
N° 3 independent clamping

Art. 391B + n° 2 Art. 407D



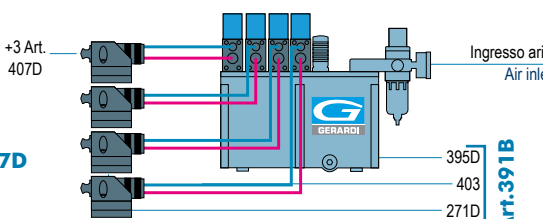
Cod. 4.39.1C103 4.39.1C203 4.39.1C303 4.39.1C403 4.39.1C503 4.39.1C603

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## Art. 391C / 4

N° 4 serraggi indipendenti  
N° 4 independent clamping

Art. 391B + n° 3 Art. 407D



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

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# COMANDO PNEUMATICO doppio effetto / Double effect PNEUMATIC CONTROL

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
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**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**  
**WISE 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
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\* Non incluso (Pag. 4.48) / Not included (Pag. 4.48)

**Art. 392B / 2**

+1 Art. 271D

N° 2 serraggi contemporanei  
N° 2 simultaneously clamping

**Art. 392B + n° 1 Art.271D**

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
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\* Non incluso (Pag. 4.48) / Not included (Pag. 4.48)

**Art. 392B / 3**

+2 Art. 271D

N° 3 serraggi contemporanei  
N° 3 simultaneously clamping

**Art. 392B + n° 2 Art.271D**

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
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\* Non incluso (Pag. 4.48) / Not included (Pag. 4.48)

**Art. 392B / 4**

+3 Art. 271D

N° 4 serraggi contemporanei  
N° 4 simultaneously clamping

**Art. 392B + n° 3 Art.271D**

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

**Art. 407E**

402 Valvola pneumatica  
Pneumatic valve

Gruppo di serraggio indipendente  
Independent clamping group

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

Ingresso aria  
Air inlet

396D  
403  
271D

Cod.	4.40.7E100	4.40.7E200	4.40.7E300	4.40.7E400	4.40.7E500	4.40.7E600
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**Art. 392C / 2**

+1 Art. 407E

N° 2 serraggi indipendenti  
N° 2 independent clamping

**Art. 392B + n° 1 Art. 407B**

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
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**Art. 392C / 3**

+1 Art. 402/90  
+2 Art. 407E

N° 3 serraggi indipendenti  
N° 3 independent clamping

**Art. 392B + n° 2 Art. 407B**

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
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**Art. 392C / 4**

+1 Art. 402/90  
+2 Art. 407E

N° 4 serraggi indipendenti  
N° 4 independent clamping

**Art. 392B + n° 3 Art. 407B**

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
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# 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

### 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

### 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

### 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

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



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



### Art. 396D

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

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



Cod. 4.39.6D000

### Art. 396C

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



Cod. 4.39.6C000

### 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

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. 4.39.8D000

### Art. 398C

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



Cod. 4.39.8C000

# ACCESSORI e RICAMBI

## ACCESSORIES and SPARE PARTS

**Art. 399**

 Gruppo filtro riduttore più lubrificatore  
 Compressed air preparation unit


Cod. 4.39.90000

**Art. 400**

 Pedale bistabile  
 Two positions foot pedal


Cod. 4.40.00000

**Art. 401**

 Pulsantiera per 1 azionamento  
 Puschbutton board for one control operation


Cod. 4.40.10000

**Art. 402**

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


Cod. 4.40.20000

**Art. 402/90**

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


Cod. 9.40.29000

**Art. 405H**

Per ogni metro extra / For each extra meter:

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


Ø 6

Cod. 4.40.5H000

**Art. 403**

Per ogni metro extra / For each extra meter:

 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

**Art. 404**

 Manometro 400bar  
 Oil pressure gauge 400bar


Cod. 4.40.40000



# ACCESSORI e RICAMBI

## ACCESSORIES and SPARE PARTS

### Art. 270A

Attacco idraulico rapido femmina  
Quick hydraulic female connection



Cod. 4.27.0A000

### Art. 270B

Innesto idraulico rapido maschio  
Quick hydraulic male connection



Cod. 4.27.0B000

### 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

### 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

### Art. ID05

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



Cod. 9.ID.05000

### Art. 505

Pressostato 400bar  
Pressure switch 400bar



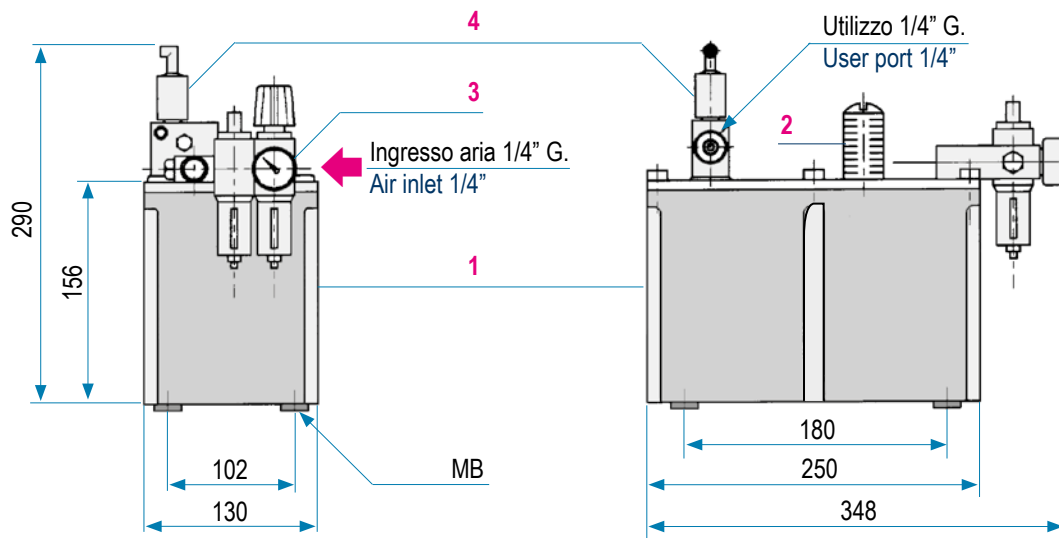
Cod. 0.50.50000

# SERRAGGIO IDRAULICO

## HYDRAULIC CLAMPING

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

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



### CARATTERISTICHE TECNICHE

### SPECIFICATION

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

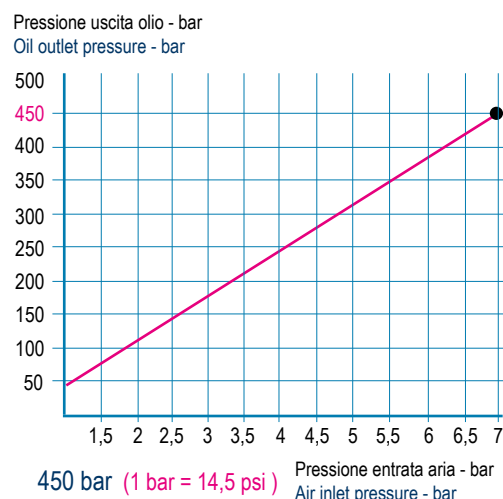
Pressione massima aria: Max permissible air pressure:	7 bar
Pressione aria consigliata: Recommended air pressure:	5,5 bar
Tipo di olio raccomandato: idraulico Recommended grade of oil: hydraulic	68 CSt
Portata Deliveries	0,9 L / 1' Litres / min
Capacità serbatoio Tank capacity	3 L
Delta massimo su pilotaggi 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

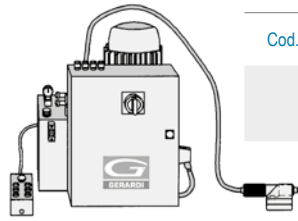
6

**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**



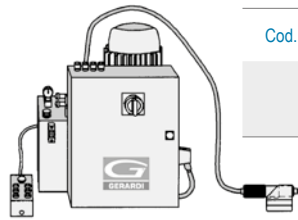
Cod. 2.26.61000 2.26.62000 2.26.63000 2.26.64000 2.26.65000 2.26.66000

**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

**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

**Art. 503**

Centralina oleodinamica a **doppio effetto**  
(Unità elettroidraulica senza gruppo di bloccaggio **Art. 271**)

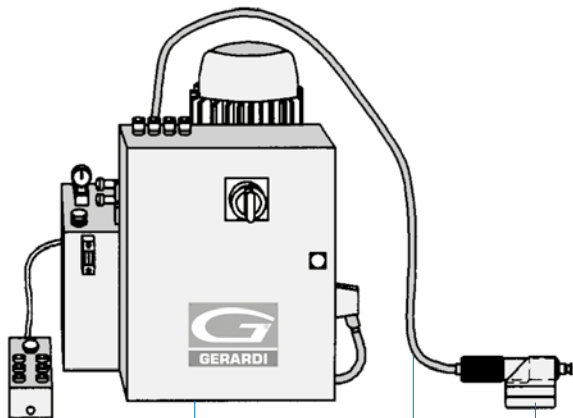
Electric motor-driven hydraulic power unit **double acting**  
(Without blocking device **Art. 271**)

Cod. 2.50.30000

La lunghezza standard dei collegamenti elettrici e idraulici, è di 1600 mm.  
Extra lunghezze saranno quotate separatamente.  
**Per bloccaggi multipli chiedere la quotazione**

Standard length for electrical wire and high pressure hose is 1600 mm.  
Extra length will be quoted separately.  
**For multiple clamping, ask for specific quotation**

**Art. 266**



Art. 502

Art. 403

Art. 271

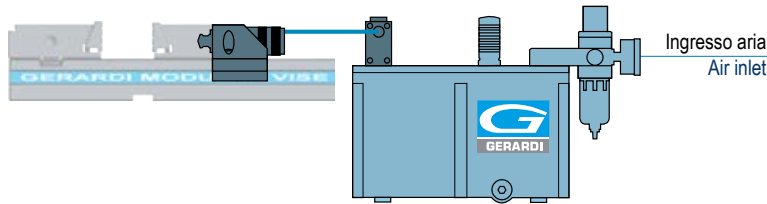
GRUPPI DI BLOCCAGGIO CON CENTRALINA OLEODINAMICA

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

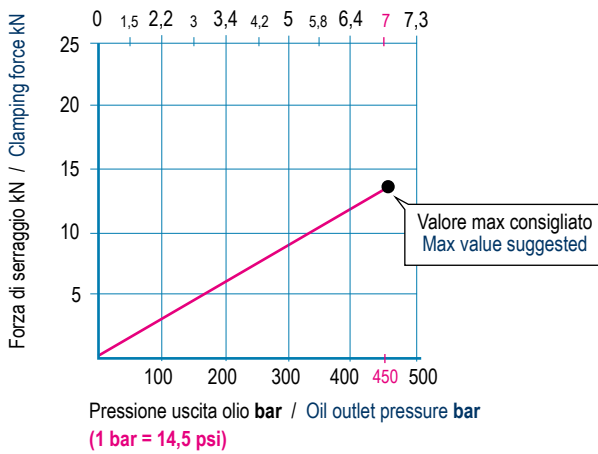
### MORSE MODULARI TIPO 1

#### MODULAR VISES TYPE 1

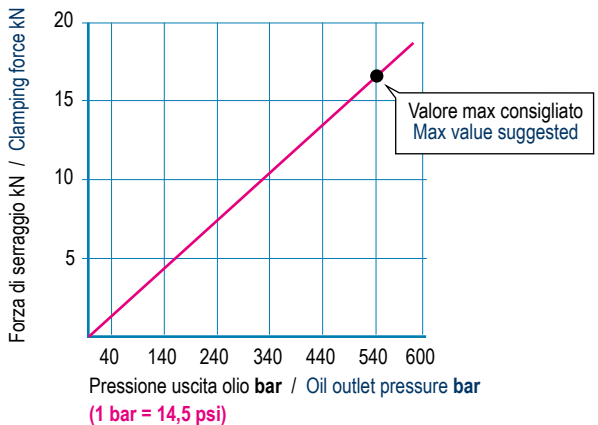
Cilindro idraulico Art. 285 - 569  
 Ø interno 20 mm - Superficie efficace 3 cm<sup>2</sup>  
 Hydraulic cylinder Art. 285 - 569  
 Cylinder I.D. 20 mm - Effective area 3 cm<sup>2</sup>

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  $\pm 10\%$ .  
 Per un corretto utilizzo non superare i valori indicati nel grafico

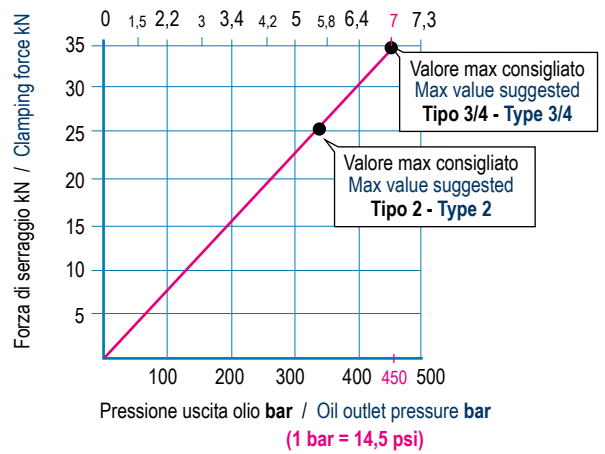
### MORSE MODULARI TIPO 2-3-4

#### MODULAR VISES TYPE 2-3-4

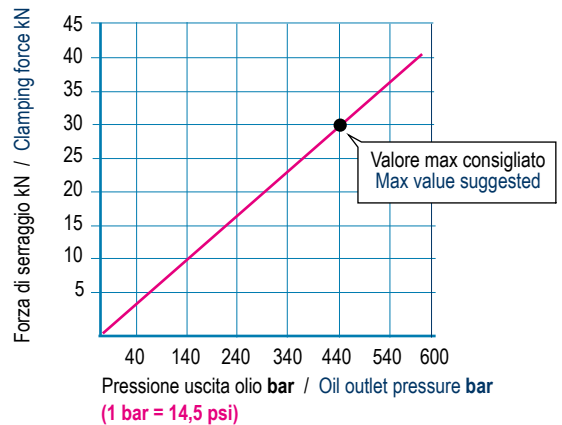
Cilindro idraulico Art. 285 - 569  
 Ø interno 30 mm - Superficie efficace 7 cm<sup>2</sup>  
 Hydraulic cylinder Art. 285 - 569  
 Cylinder I.D. 30 mm - Effective area 7 cm<sup>2</sup>

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

Pressione entrata aria bar / Air inlet pressure bar

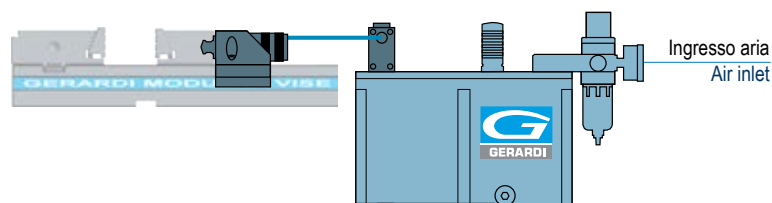


Con centralina elettroidraulica Art. 266 - 267 - 502 - 503  
 With motor driven hydraulic power unit Art. 266 - 267 - 502 - 503



Some factor as lubrication, clamping on the machine table, frictions and more can modify above values within a  $\pm 10\%$  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

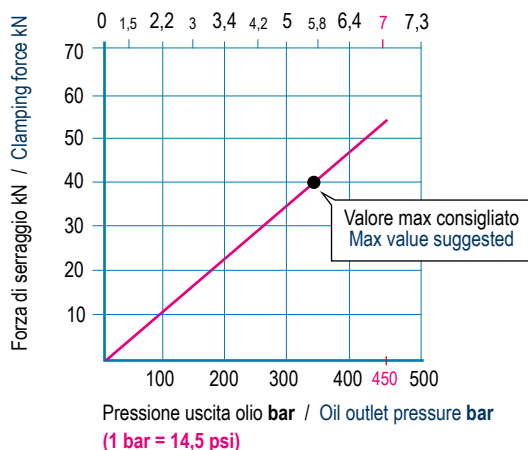
The following diagrams give the clamping force that can be obtained with each vise type (size 1 to 6) when equipped with hydraulic blocking devices, as a function of the fluid pressure (air or oil)

### MORSE MODULARI TIPO 5 MODULAR VISES TYPE 5

Cilindro idraulico Art. 285 - 569  
Ø interno 40 mm - Superficie efficace 12,5 cm<sup>2</sup>  
Hydraulic cylinder Art. 285 - 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

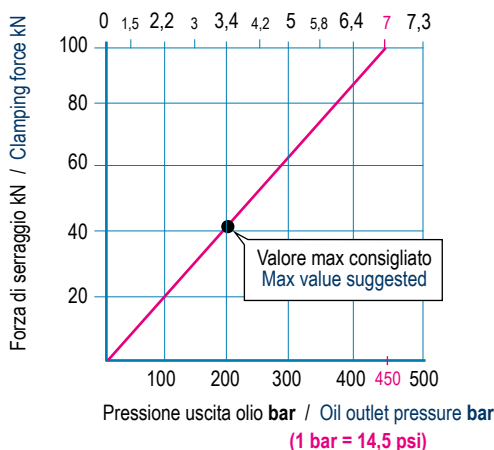


### MORSE MODULARI TIPO 6 MODULAR VISES TYPE 6

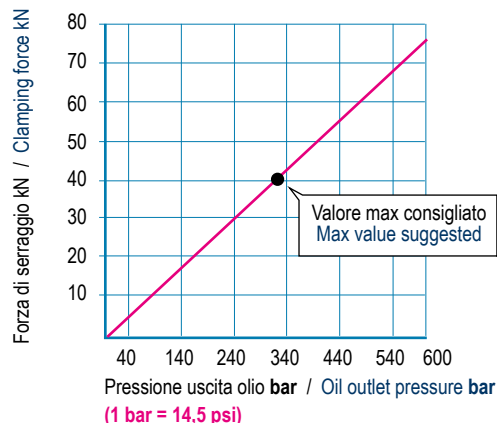
Cilindro idraulico Art. 285 - 569  
Ø interno 50 mm - Superficie efficace 19,6 cm<sup>2</sup>  
Hydraulic cylinder Art. 285 - 569  
Cylinder I.D. 50 mm - Effective area 19.6 cm<sup>2</sup>

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

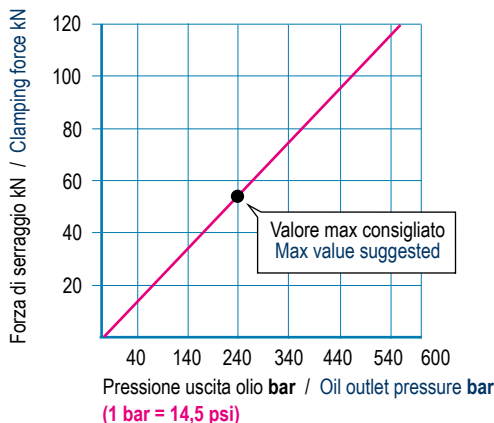
Pressione entrata aria bar / Air inlet pressure bar



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

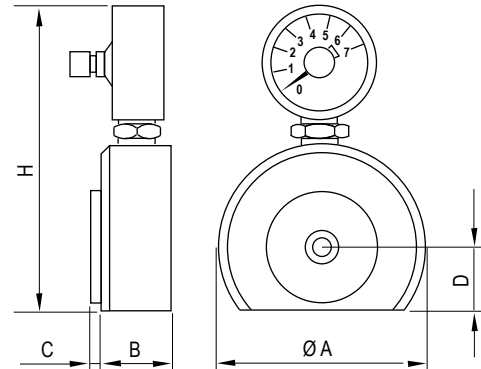
Some factor as lubrication, clamping on the machine table, frictions and more can modify above values within a ± 10% range.  
For optimum operation do not exceed chart values.

# CELLE DI CARICO / LOADING CELLS

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

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

**Art. 272**

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

**Art. 272A**

 Indicatore di forza kN  
 Force indicator kN


Cod.		4.27.2A600			-	-
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## LA FORZA DELLA QUALITÀ ! THE STRENGTH OF QUALITY !

**Art. 394** Pag. 4.43

 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. 4.43

 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
