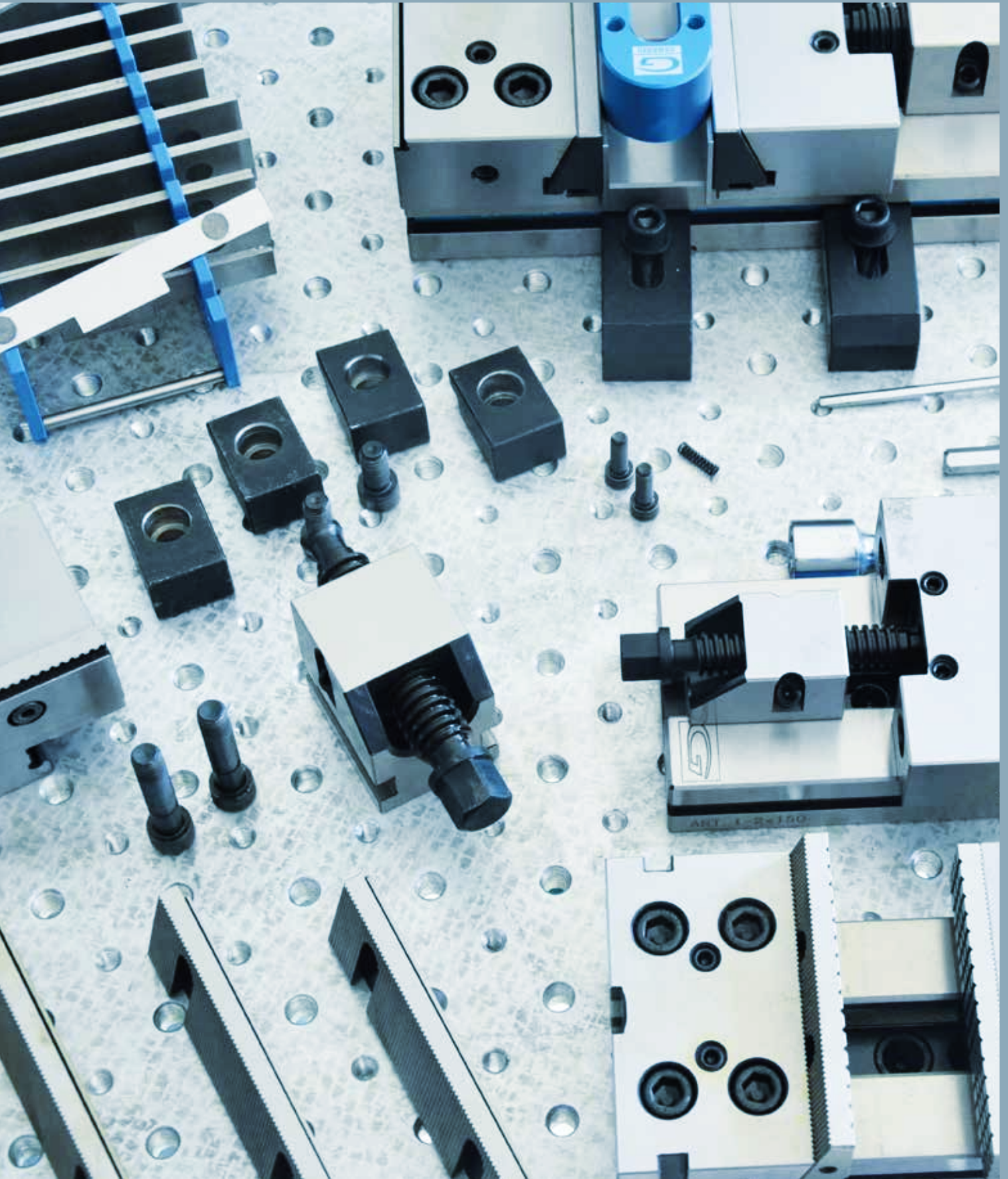


STD & STANDARDFLEX ACCESSORI E RICAMBI - SPARE PARTS & ACCESSORIES



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

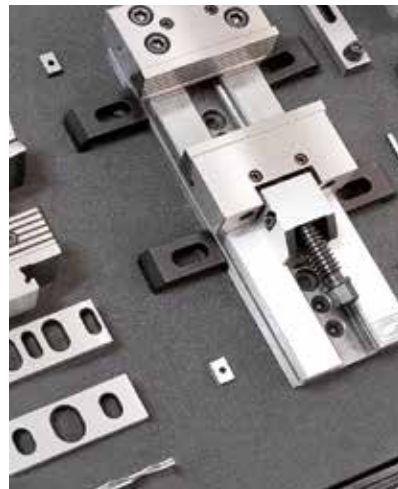
 Valigetta di campionatura morsa Art.1 T.1
 Sample kit case Art.1 T.1 vise

Cod. 0.98.10000

€	1.771
---	--------------

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° , il perfetto accoppiamento al gradino della ganascia prismatica mobile (Art. 217) ordinabile separatamente.

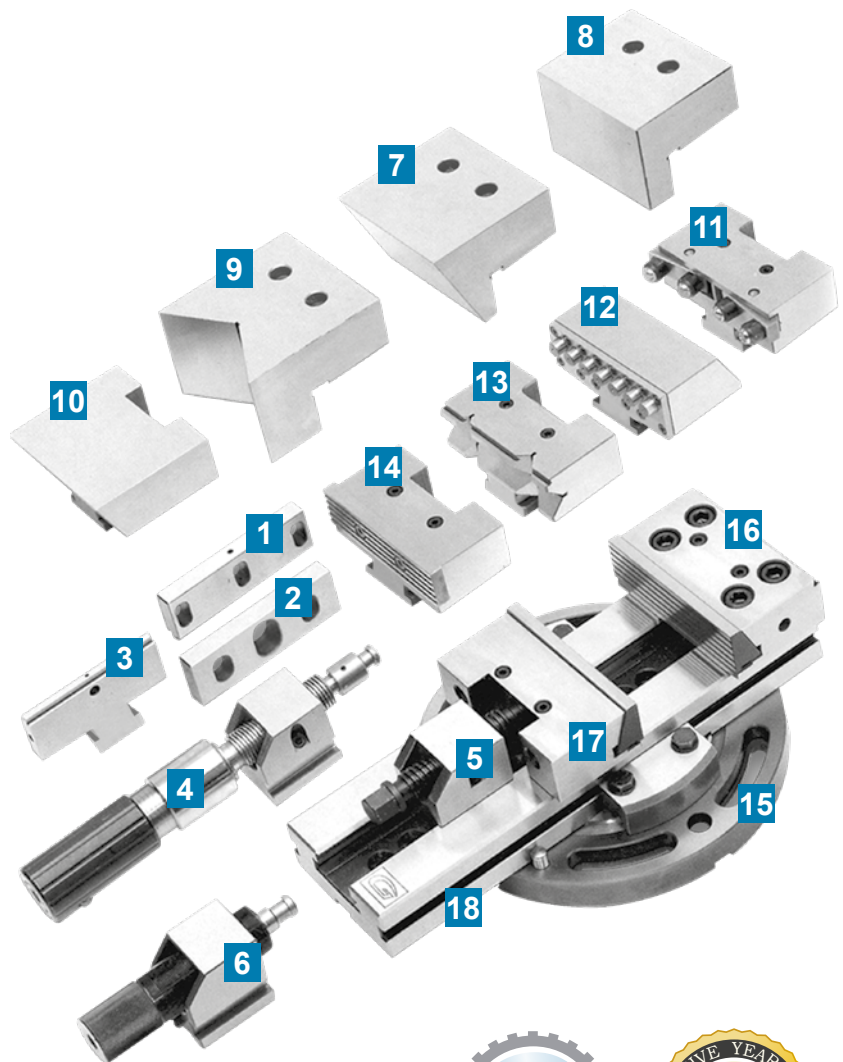
The solid standard fixed jaws with 5x5 mm back steps are matchable, if turned of 180° , to the prismatic movable jaw (Art.217) to be ordered separately.

17 Art. 127

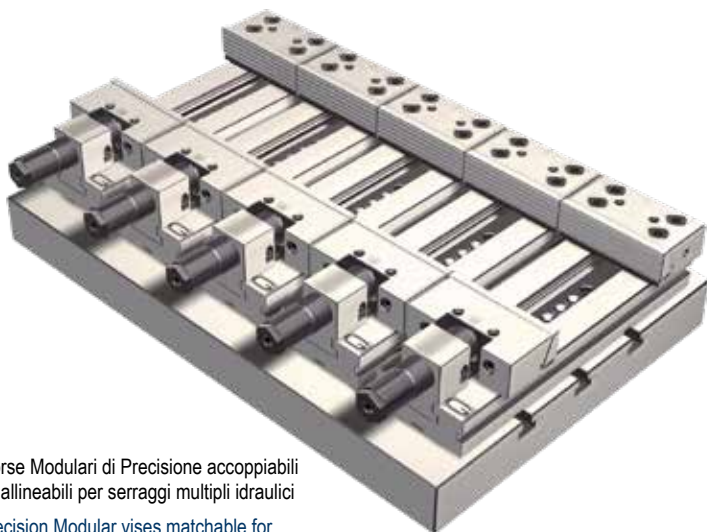
Ganascia mobili guidate monoblocco costruite con un angolo di spinta verso il basso.
Guided movable jaws built in one solid body with a pull down angle

18 Art. 1 + Art.105

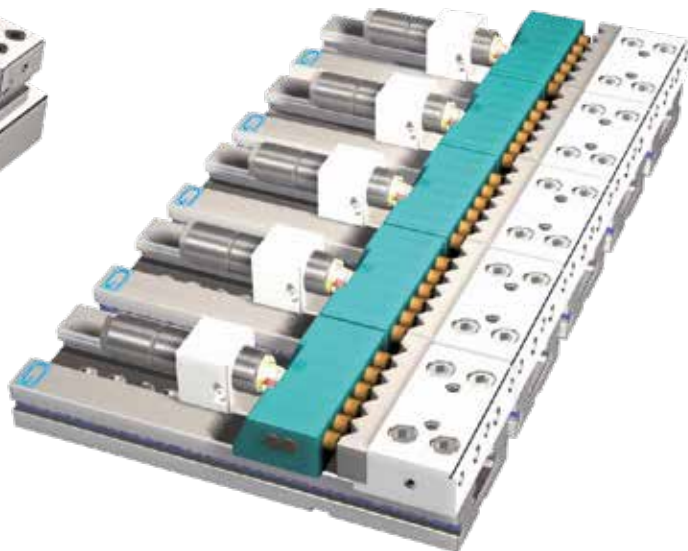
Morsa con base girevole
Vise with swivel base



ESEMPI APPLICATIVI APPLICATION EXAMPLES

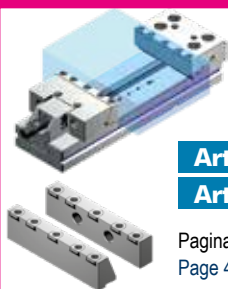


Morse Modulari di Precisione accoppiabili ed allineabili per serraggi multipli idraulici con ganasce speciali
Precision Modular vises matchable for gang operations and hydraulic clamping with special jaws



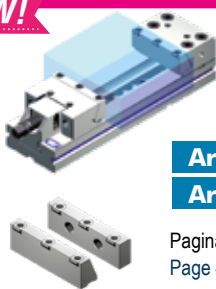
Morse Modulari di Precisione accoppiabili ed allineabili per serraggi multipli idraulici
Precision Modular vises matchable for gang operations and hydraulic clamping

NEW!



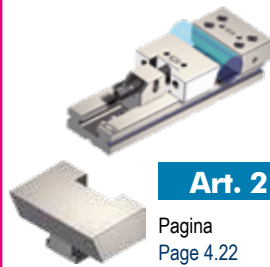
Art. 242G
Art. 246G

Pagina
Page 4.14



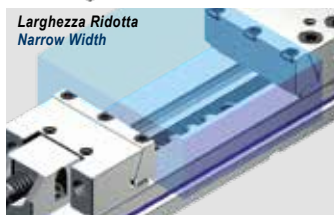
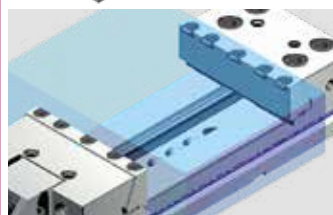
Art. 243G
Art. 247G

Pagina
Page 4.14



Art. 210

Pagina
Page 4.22



Larghezza Ridotta
Narrow Width

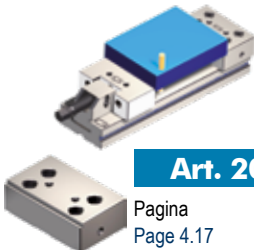


NEW INSERT GRIP JAW PLATES



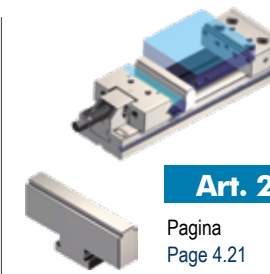
Art. 160

Pagina
Page 4.16



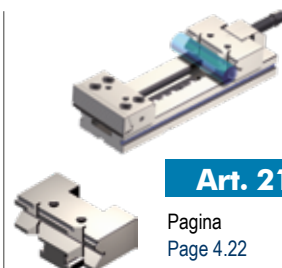
Art. 200

Pagina
Page 4.17



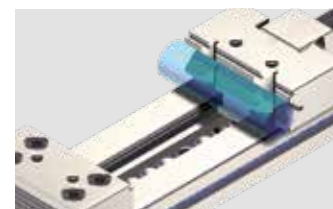
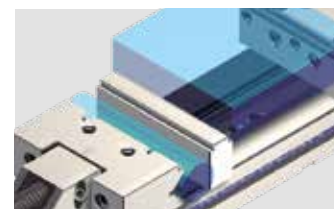
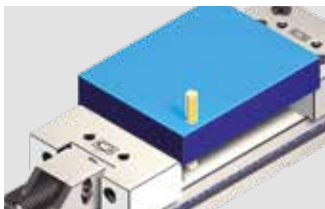
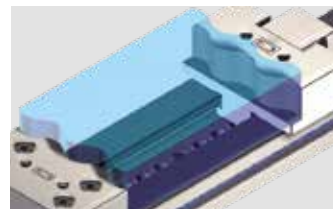
Art. 212

Pagina
Page 4.21

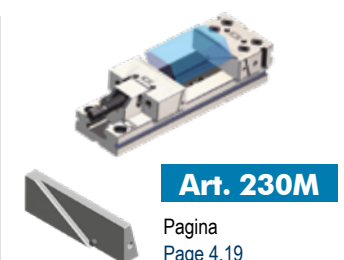
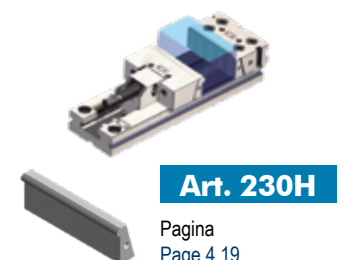
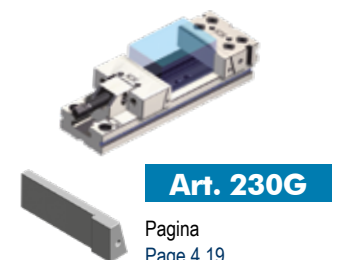
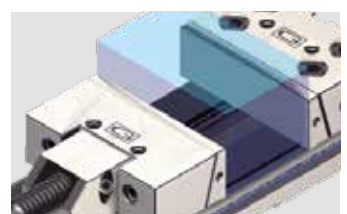
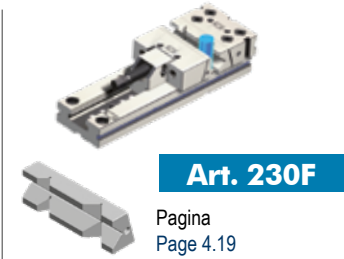
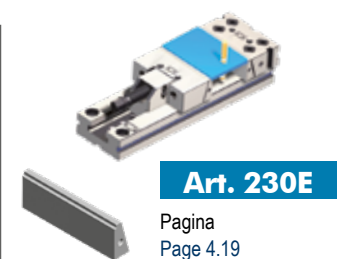
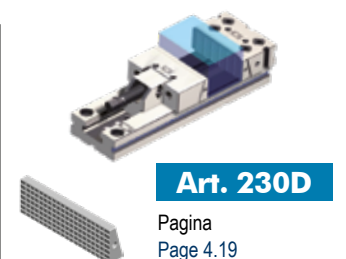
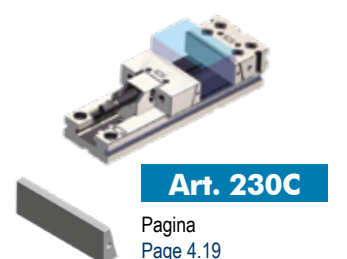
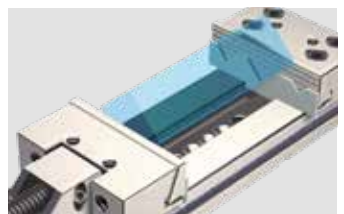
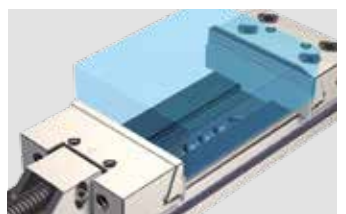
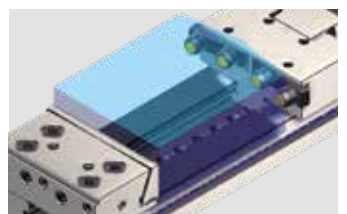
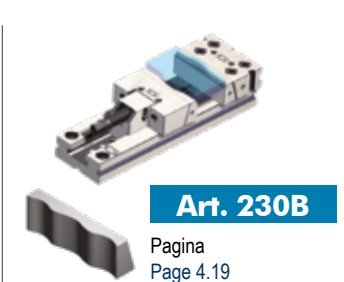
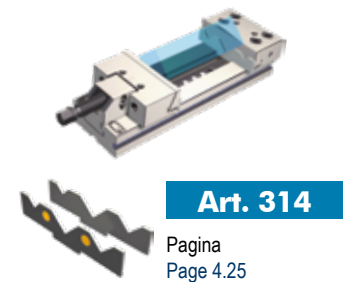
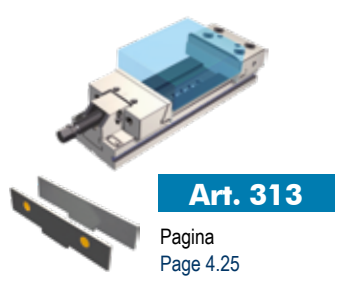
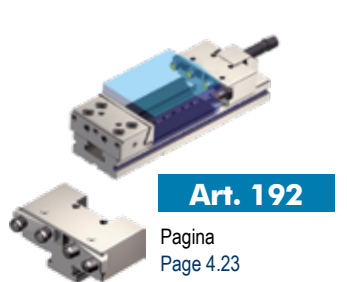


Art. 217

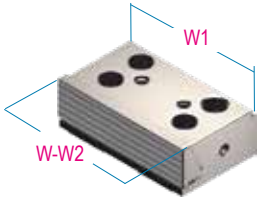

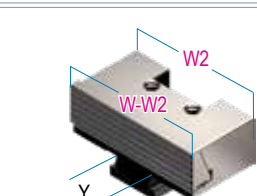
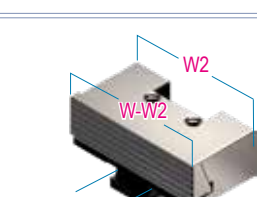
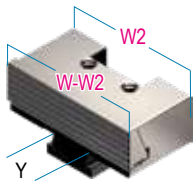
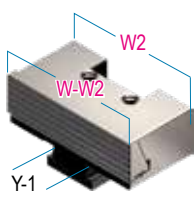
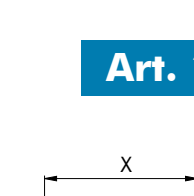
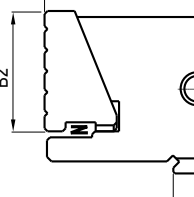
Pagina
Page 4.22



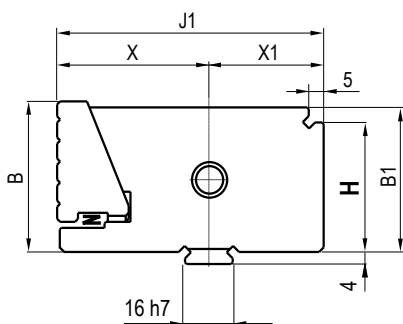
ESEMPI APPLICATIVI APPLICATION EXAMPLES



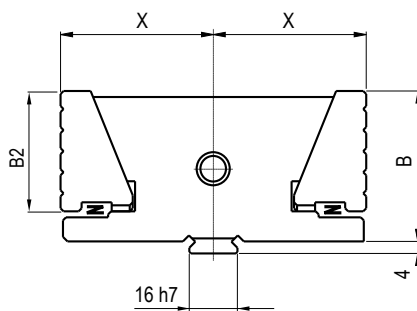
Ganasce STANDARD / STANDARD jaws

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 120 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						
€	137	174	207	245	348	537
Art. 121 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						
€	177	224	269	317	452	698
Art. 123 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						
€	184	254	308	362	537	803
Art. 124 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						
€	237	330	401	470	698	1.044
Art. 127 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						
€	137	174	207	245	348	537
Art. 129 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						
€	137	174	207	245	348	537
Art. 126 W Ganasce mobile oscillante . Larghezza normale (W) Floating movable jaw. Normal width (W)						
Cod. 2.12.61000 2.12.62000 2.12.63000 2.12.64000 2.12.65000 2.12.66000						
€	137	174	207	245	348	537
Art. 128 W2 Ganasce mobile oscillante . Larghezza ridotta (W2) Floating movable jaw. Narrow width (W2)						
Cod. 2.12.81000 2.12.82000 2.12.83000 2.12.84000 2.12.85000 2.12.86000						
€	137	174	207	245	348	537

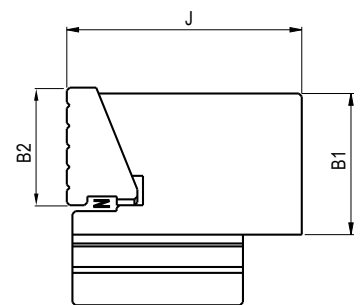
Art. 120



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

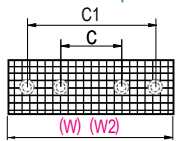
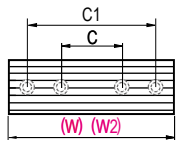
Ricambi per ganasce STANDARD / Spares for STANDARD jaws

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)

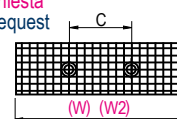
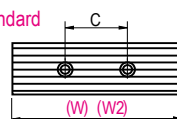
Art. 230S (W)

 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
HARDENED SMOOTH JAW PLATES

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

Art. 232 (W)

 Per 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)
MACHINEABLE STEEL JAW PLATES (SOFT)

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

Art. 234 (W)

 Per 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)

€ cad / each	55	60	72	89	124	166
--------------	----	----	----	----	-----	-----

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

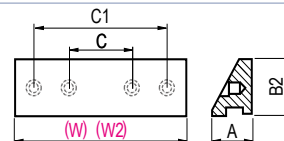
Cod. Art. 231	1.65.11000	1.65.21000	1.65.31000	1.65.41000	1.65.51000	1.65.61000
Cod. Art. 231S	4.23.1S100	4.23.1S200	4.23.1S300	4.23.1S400	4.23.1S500	4.23.1S600

ATTENZIONE - ATTENTION:

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

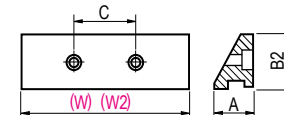
Cod. Art. 248	1.65.14000	1.65.24000	1.65.34000	1.65.44000	1.65.54000	1.65.64000
Cod. Art. 248S	4.24.8S100	4.24.8S200	4.24.8S300	4.24.8S400	4.24.8S500	4.24.8S600

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



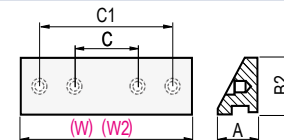
Cod. Art. 232	1.65.10100	1.65.20100	1.65.30100	1.65.40100	1.65.50100	1.65.60100
---------------	------------	------------	------------	------------	------------	------------

Cod. Art. 233	1.65.11100	1.65.21100	1.65.31100	1.65.41100	1.65.51100	1.65.61100
---------------	------------	------------	------------	------------	------------	------------



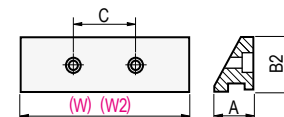
Cod. Art. 250	1.65.14100	1.65.24100	1.65.34100	1.65.44100	1.65.54100	1.65.64100
---------------	------------	------------	------------	------------	------------	------------

Cod. Art. 251	1.65.15100	1.65.25100	1.65.35100	1.65.45100	1.65.55100	1.65.65100
---------------	------------	------------	------------	------------	------------	------------



Cod. Art. 234	1.65.10200	1.65.20200	1.65.30200	1.65.40200	1.65.50200	1.65.60200
---------------	------------	------------	------------	------------	------------	------------

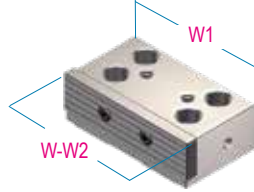
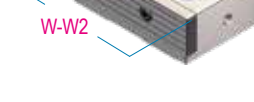
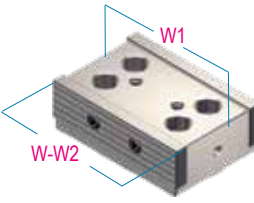

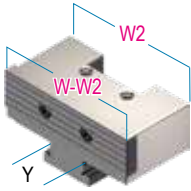
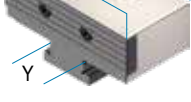
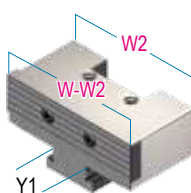
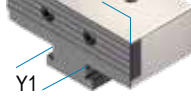
Cod. Art. 235	1.65.11200	1.65.21200	1.65.31200	1.65.41200	1.65.51200	1.65.61200
---------------	------------	------------	------------	------------	------------	------------



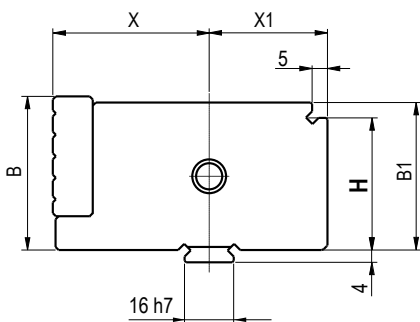
Cod. Art. 252	1.65.14200	1.65.24200	1.65.34200	1.65.44200	1.65.54200	1.65.64200
---------------	------------	------------	------------	------------	------------	------------

Cod. Art. 253	1.65.15200	1.65.25200	1.65.35200	1.65.45200	1.65.55200	1.65.65200
---------------	------------	------------	------------	------------	------------	------------

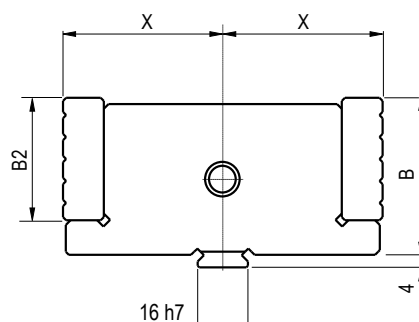
Ganasce con PIASTRE PIANE / STRAIGHT PLATE jaws

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 140 W Ganascia 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
€	137	174	207	245	348	537
Art. 141 W2 Ganascia 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
€	177	224	269	317	452	698
Art. 143 W Ganascia 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
€	184	254	308	362	537	803
Art. 144 W2 Ganascia 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
€	237	330	401	470	698	1.044
Art. 146 W Ganascia 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
€	137	174	207	245	348	537
Art. 147 W2 Ganascia 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
€	137	174	207	245	348	537
Art. 148 W Ganascia 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
€	137	174	207	245	348	537
Art. 149 W2 Ganascia 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
€	137	174	207	245	348	537

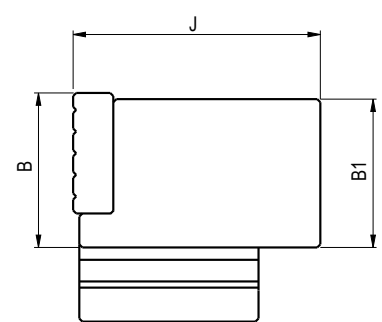
Art. 140



Art. 143



Art. 146



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
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

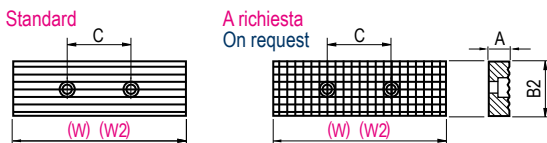
Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
---	---	---	---	---	---	---

PIASTRE PIANE TEMPRATE, RIGATE O QUADRETTATE
HARDENED GROOVED OR SERRATED STRAIGHT JAW PLATES

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

€ cad / each	55	60	72	89	124	166
--------------	----	----	----	----	-----	-----

Per qualsiasi piastra ganascia speciale, raddoppiare il prezzo / For special tailor made jaw plate double the price



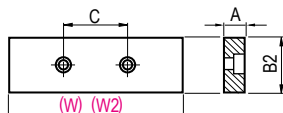
	100	125	150	175	200	300
W	100	125	150	175	200	300
W2	74	94	124	144	169	194
A	12	12	13	13	18	18
B2	24,5	32	40	43	48	56
C	25	32	50	50	76	90

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)

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)

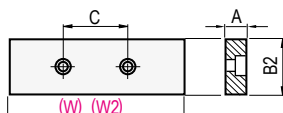
Cod. Art. 243	1.65.17000	1.65.27000	1.65.37000	1.65.47000	1.65.57000	1.65.67000
Cod. Art. 243S	4.24.3S100	4.24.3S200	4.24.3S300	4.24.3S400	4.24.3S500	4.24.3S600

PIASTRE PIANE LISCE TEMPRATE Fornibili a richiesta su ganasce e morse senza variazione di prezzo
HARDENED SMOOTH STRAIGHT JAW PLATES 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
---------------	------------	------------	------------	------------	------------	------------

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)

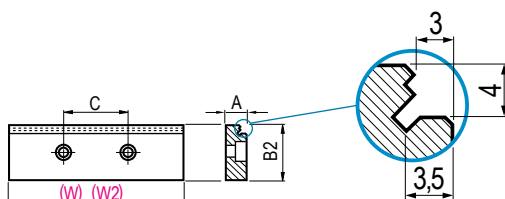
Cod. Art. 245	4.24.51000	4.24.52000	4.24.53000	4.24.54000	4.24.55000	4.24.56000
---------------	------------	------------	------------	------------	------------	------------

PIASTRE PIANE IN ACCIAIO LAVORABILE (DOLCE) Fornibili a richiesta su ganasce e morse senza variazione di prezzo
MACHINEABLE STEEL STRAIGHT JAW PLATES (SOFT HRC) 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
---------------	------------	------------	------------	------------	------------	------------

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
---------------	------------	------------	------------	------------	------------	------------

PIASTRE PIANE TEMPRATE GRIP Fornibili a richiesta su ganasce e morse senza variazione di prezzo
HARDENED STRAIGHT JAW PLATES GRIP Available on request for complete jaws and vises without price change

PIASTRE GANASCE "GRIP" JAW PLATES

< Superficie / Surface > Pressione / Pressure

Art. 246T (W)
 Per ganascia fissa e mobile - Art. 140, 143, 146 - Larghezza normale (W)
 For fixed and movable jaw - Art. 140, 143, 146 - Normal width (W)

Cod. Art. 246T	4.24.6T100	4.24.6T200	4.24.6T300	4.24.6T400	4.24.6T500	4.24.6T600
----------------	------------	------------	------------	------------	------------	------------

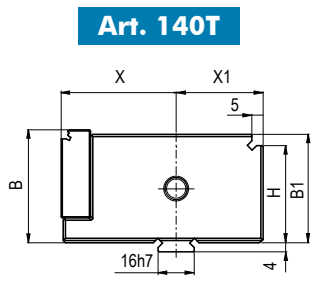
Art. 247T (W2)
 Per ganascia fissa e mobile - Art. 141, 144, 147 - Larghezza ridotta (W2)
 For fixed and movable jaw - Art. 141, 144, 147 - Narrow width (W2)

Cod. Art. 247T	4.24.7T100	4.24.7T200	4.24.7T300	4.24.7T400	4.24.7T500	4.24.7T600
----------------	------------	------------	------------	------------	------------	------------

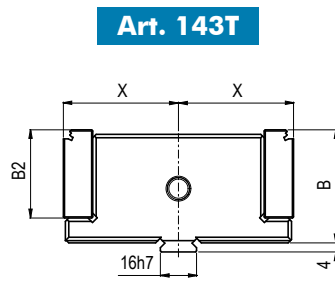
Ganasce con PIASTRE PIANE GRIP / STRAIGHT PLATE GRIP jaws

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 140T W NEW! Ganasce fissa GRIP. Larghezza normale (W) Fixed GRIP jaw. Normal width (W)	Cod. 2.14.0T100 € 137	Cod. 2.14.0T200 € 174	Cod. 2.14.0T300 € 207	Cod. 2.14.0T400 € 245	Cod. 2.14.0T500 € 348	Cod. 2.14.0T600 € 537
Art. 141T W2 NEW! Ganasce fissa GRIP. Larghezza ridotta rettificata (W2) Fixed GRIP jaw. Narrow width ground (W2)	Cod. 2.14.T1100 € 177	Cod. 2.14.T1200 € 224	Cod. 2.14.T1300 € 269	Cod. 2.14.T1400 € 317	Cod. 2.14.T1500 € 452	Cod. 2.14.T1600 € 698
Art. 143T W NEW! Ganasce fissa doppia. Larghezza normale (W) Double fixed jaw. Normal width (W)	Cod. 2.14.T3100 € 184	Cod. 2.14.T3200 € 254	Cod. 2.14.T3300 € 308	Cod. 2.14.T3400 € 362	Cod. 2.14.T3500 € 537	Cod. 2.14.T5100 € 803
Art. 144T W2 NEW! Ganasce fissa doppia. Larghezza ridotta rettificata (W2) Double fixed jaw. Narrow width ground (W2)	Cod. 2.14.T4100 € 237	Cod. 2.14.T4200 € 330	Cod. 2.14.T4300 € 401	Cod. 2.14.T4400 € 470	Cod. 2.14.T4500 € 698	Cod. 2.14.T4600 € 1.044
Art. 146T W NEW! Ganasce mobile monoblocco guidata. Larghezza normale (W) Guided movable solid jaw. Normal width (W)	Cod. 2.14.T6100 € 137	Cod. 2.14.T6200 € 174	Cod. 2.14.T6300 € 207	Cod. 2.14.T6400 € 245	Cod. 2.14.T6500 € 348	Cod. 2.14.T6600 € 537
Art. 147T W2 NEW! Ganasce mobile monoblocco guidata. Larghezza ridotta (W2) Guided movable solid jaw. Narrow width (W2)	Cod. 2.14.T7100 € 137	Cod. 2.14.T7200 € 174	Cod. 2.14.T7300 € 207	Cod. 2.14.T7400 € 245	Cod. 2.14.T5500 € 348	Cod. 2.14.T7600 € 537

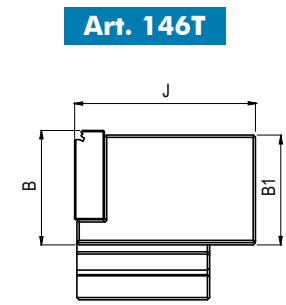
4



Art. 140T



Art. 143T



Art. 146T

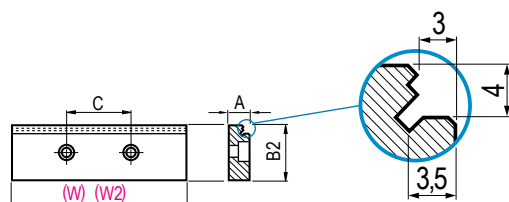
W1 = W2 + 1mm

* DIMENSIONE DA ACCOPIARE 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)

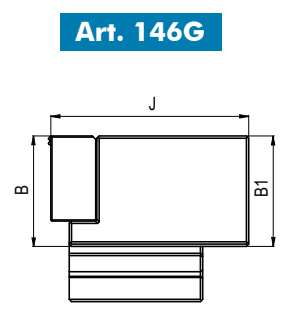
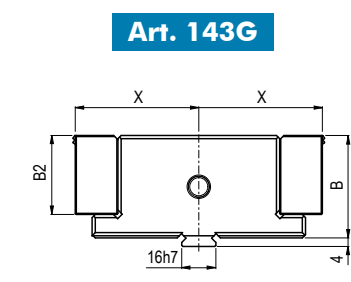
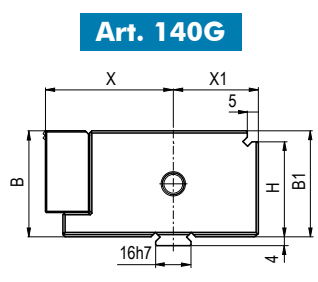
Cod. Art. 246T	4.24.6T100	4.24.6T200	4.24.6T300	4.24.6T400	4.24.6T500	4.24.6T600
----------------	------------	------------	------------	------------	------------	------------

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
----------------	------------	------------	------------	------------	------------	------------

Ganascce con PIASTRE con inserti GRIP / STRAIGHT PLATE jaws with GRIP inserts

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6	
Art. 140G W NEW! 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
	€ 191	233	285	326	456	675	
Art. 141G W2 NEW! 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
	€ 231	283	326	398	540	816	
Art. 143G W NEW! 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
	€ 292	372	464	524	753	1.079	
Art. 144G W2 NEW! 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
	€ 345	448	515	632	874	1.280	
Art. 146G W NEW! 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
	€ 191	233	285	326	456	675	
Art. 147G W2 NEW! 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
	€ 191	233	264	326	436	655	
Art. 148G W NEW! 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
	€ 191	233	285	326	456	675	
Art. 149G W2 NEW! 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
	€ 191	233	264	326	436	655	



W1 = W2 + 1mm

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

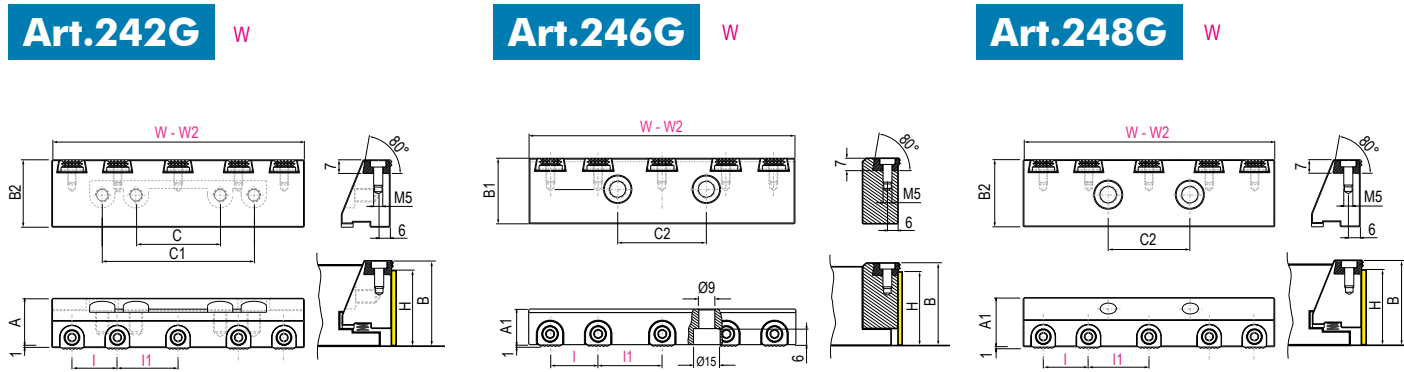
Tipo / Type	1	2	3	4	5	6
W	100	125	150	175	200	300
W2	74	94	124	144	169	194
Y	21	28	41	51	61	71
Y1	20	27	40	50	60	70
B	28	38	48	58	63	78
B1	28	38	48	58	63	78
* B2	24,5	30	37	42	46	54
H	23	33	43	53	53	68
J	58	68	87	97	102	122
X	50,4	50,4	57,9	62,4	68,4	75,1
X1	35,5	35,5	38,5	41,5	47	47

PIASTRE GANASCE CON INSERTI GRIP INSERT GRIP JAW PLATES

NEW!

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 242G W Piastra Ganascia con Inserti GRIP. Larghezza normale (W) Jaw plate with GRIP insert. Normal width (W)	Cod. 1.24.2G100 € 109	Cod. 1.24.2G200 € 119	Cod. 1.24.2G300 € 150	Cod. 1.24.2G400 € 170	Cod. 1.24.2G500 € 232	Cod. 1.24.2G600 € 304
Art. 243G W2 Piastra Ganascia con Inserti GRIP. Larghezza ridotta rettificata (W1) Jaw plate with GRIP insert. Narrow width ground (W1)	Cod. 1.24.3G100 € 109	Cod. 1.24.3G200 € 119	Cod. 1.24.3G300 € 129	Cod. 1.24.3G400 € 170	Cod. 1.24.3G500 € 212	Cod. 1.24.3G600 € 284
Art. 248G W NEW! Piastra Ganascia con Inserti GRIP. Larghezza normale (W) Jaw plate with GRIP insert. Normal width (W)	Cod. 1.24.8G100 € 109	Cod. 1.24.8G200 € 119	Cod. 1.24.8G300 € 150	Cod. 1.24.8G400 € 170	Cod. 1.24.8G500 € 232	Cod. 1.24.8G600 € 304
Art. 249G W2 NEW! Piastra Ganascia con Inserti GRIP. Larghezza ridotta rettificata (W1) Jaw plate with GRIP insert. Narrow width ground (W1)	Cod. 1.24.9G100 € 109	Cod. 1.24.9G200 € 119	Cod. 1.24.9G300 € 129	Cod. 1.24.9G400 € 170	Cod. 1.24.9G500 € 212	Cod. 1.24.9G600 € 284
Art. 246G W Piastra Piana con Inserti GRIP. Larghezza normale (W) Straight Plate with GRIP inserts. Normal width (W)	Cod. 1.24.6G100 € 109	Cod. 1.24.6G200 € 119	Cod. 1.24.6G300 € 150	Cod. 1.24.6G400 € 170	Cod. 1.24.6G500 € 232	Cod. 1.24.6G600 € 304
Art. 247G W2 Piastra Piana con Inserti GRIP. Larghezza ridotta rettificata (W1) Straight Plate with GRIP inserts. Narrow width ground (W1)	Cod. 1.24.7G100 € 109	Cod. 1.24.7G200 € 119	Cod. 1.24.7G300 € 129	Cod. 1.24.7G400 € 170	Cod. 1.24.7G500 € 212	Cod. 1.24.7G600 € 284

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



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

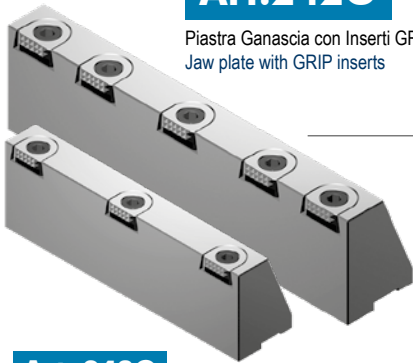
Tipo / Type	1	2	3	4	5	6
W	100	125	150	175	200	300
W2	74	94	124	144	169	194
I	-	-	31,5	35	27	33
I1	35	45	31,5	35	27	33
C	20	32	50	50	76	90
C1	62	80	90	116	138	184
C2	25	32	50	50	76	80
B	28	38	48	58	63	78
B1	24,5	30	37	42	46	54
B2	24,5	32	40	43	53	63
A	25	20	24	24	29	35
A1	20	20	20	20	20	20
H	25	35	45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

PIASTRE GANASCE CON INSERTI GRIP INSERT GRIP JAW PLATES

NEW!

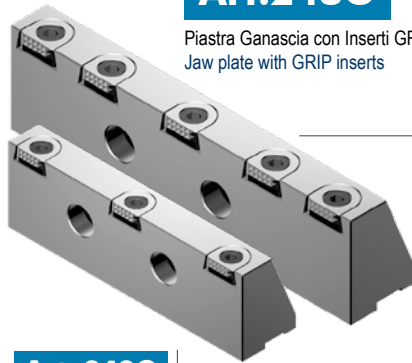
Art.242G

Piastra Ganascia con Inserti GRIP
Jaw plate with GRIP inserts



Art.248G

Piastra Ganascia con Inserti GRIP
Jaw plate with GRIP inserts



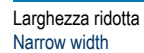
Art.246G

Piastra Piana con Inserti GRIP
Straight Plate with GRIP inserts



Art. 243G

Larghezza ridotta
Narrow width



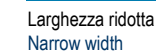
Art. 249G

Larghezza ridotta
Narrow width



Art. 247G

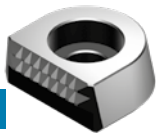
Larghezza ridotta
Narrow width



Inserti Grip - Grip Inserts

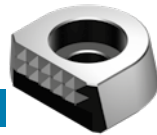
Art. 220 G01

Per materiali di durezza normale
For standard workpieces hardness clamping



Art. 220 G02

Per materiali di notevole durezza.
For hardened workpieces clamping



Art. 220 G11

Per materiali teneri
For soft material clamping



Cod. 4.22.01000 / G01

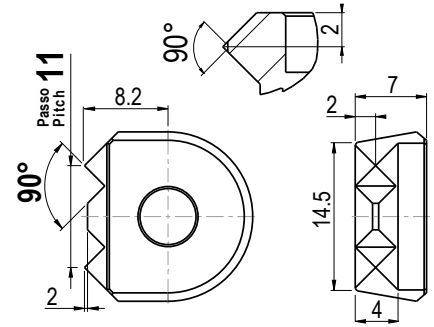
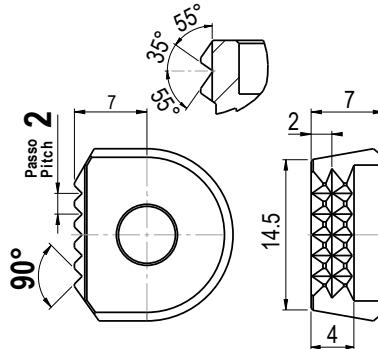
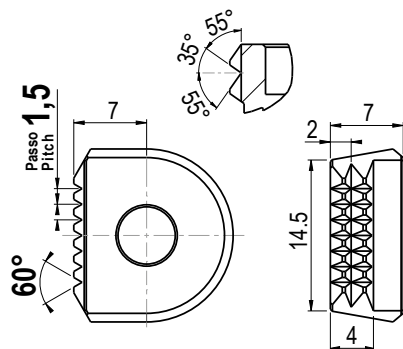
€ 11

Cod. 4.22.01000 / G02

€ 11

Cod. 4.22.01000 / G11

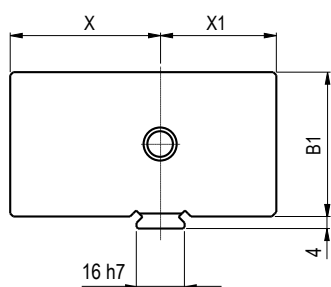
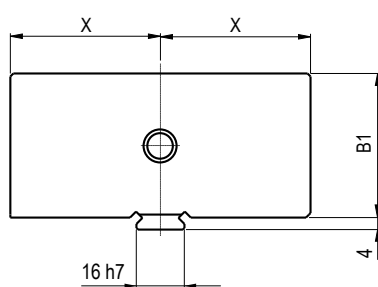
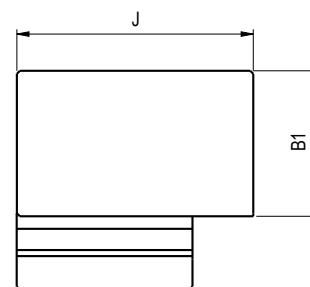
€ 11



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>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>

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

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 160 W3 Ganascia fissa. Larghezza normale (W3) Fixed jaw. Normal width (W3)						
	Cod. 2.16.01000	2.16.02000	2.16.03000	2.16.04000	2.16.05000	2.16.06000
	€ 137	174	207	245	348	537
Art. 161 W1 Ganascia fissa. Larghezza ridotta rettificata (W1) Fixed jaw. Narrow width grinded (W1)						
	Cod. 2.16.11000	2.16.12000	2.16.13000	2.16.14000	2.16.15000	2.16.16000
	€ 177	224	269	317	452	698
Art. 163 W3 Ganascia fissa doppia. Larghezza normale (W3) Double fixed jaw. Normal width (W3)						
	Cod. 2.16.31000	2.16.32000	2.16.33000	2.16.34000	2.16.35000	2.16.36000
	€ 184	254	308	362	537	803
Art. 164 W1 Ganascia fissa doppia. Larghezza ridotta rettificata (W1) Double fixed jaw. Narrow width grinded (W1)						
	Cod. 2.16.41000	2.16.42000	2.16.43000	2.16.44000	2.16.45000	2.16.46000
	€ 237	330	401	470	698	1.044
Art. 166 W3 Ganascia mobile monoblocco guidata. Larghezza normale (W3) Guided movable solid jaw. Normal width (W3)						
	Cod. 2.16.61000	2.16.62000	2.16.63000	2.16.64000	2.16.65000	2.16.66000
	€ 137	174	207	245	348	537
Art. 167 W2 Ganascia mobile monoblocco guidata. Larghezza ridotta (W2) Guided movable solid jaw. Narrow width (W2)						
	Cod. 2.16.71000	2.16.72000	2.16.73000	2.16.74000	2.16.75000	2.16.76000
	€ 137	174	207	245	348	537
Art. 168 W3 Ganascia mobile monoblocco oscillante. Larghezza normale (W3) Floating movable solid jaw. Normal width (W3)						
	Cod. 2.16.81000	2.16.82000	2.16.83000	2.16.84000	2.16.85000	2.16.86000
	€ 137	174	207	245	348	537
Art. 169 W2 Ganascia mobile monoblocco oscillante. Larghezza ridotta (W2) Floating movable solid jaw. Narrow width (W2)						
	Cod. 2.16.91000	2.16.92000	2.16.93000	2.16.94000	2.16.95000	2.16.96000
	€ 137	174	207	245	348	537

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

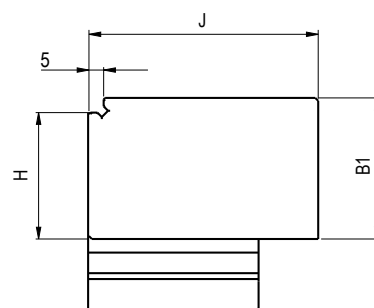
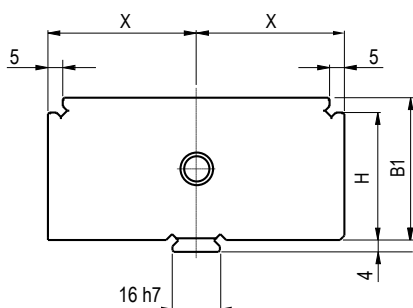
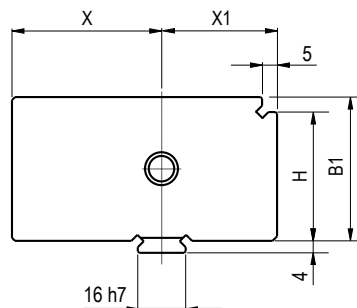
Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 200 W3 Ganasce fissa. Larghezza normale (W3) Fixed jaw. Normal width (W3)						
	Cod. 2.20.01000	2.20.02000	2.20.03000	2.20.04000	2.20.05000	2.20.06000
	€ 137	174	207	245	348	537
Art. 201 W1 Ganasce fissa. Larghezza ridotta rettificata (W1) Fixed jaw. Narrow width ground (W1)						
	Cod. 2.20.11000	2.20.12000	2.20.13000	2.20.14000	2.20.15000	2.20.16000
	€ 177	224	269	317	452	698
Art. 203 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
	€ 184	254	308	362	537	803
Art. 204 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
	€ 237	330	401	470	698	1.044
Art. 208 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
	€ 137	174	207	245	348	537
Art. 209 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
	€ 137	174	207	245	348	537
Art. 206 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
	€ 137	174	207	245	348	537
Art. 207 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
	€ 137	174	207	245	348	537

HRC= 60

Art. 200

Art. 203

Art. 208

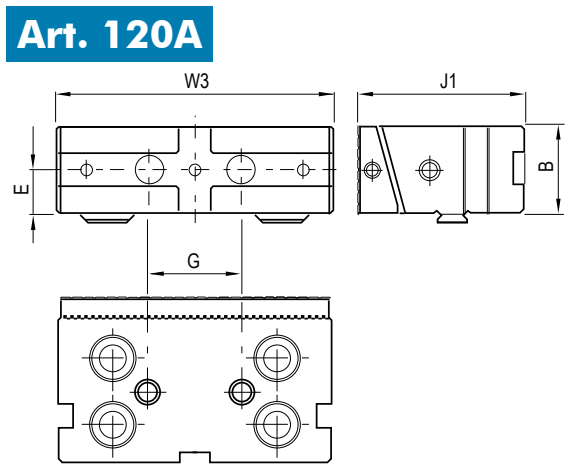


Art.	1	2	3	4	5	6
W3	96	121	146	171	196	296
W1	75	95	125	145	170	195
W2	74	94	124	144	169	194
Y	21	28	41	51	61	71
Y-1	20	27	40	50	60	70
B1	28	38	48	58	63	78
* H	23	33	43	53	53	68
J	50	60	80	90	100	120
X	42,4	42,4	50,9	55,4	66,4	73,1
X1	35,5	35,5	38,5	41,5	47	47

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

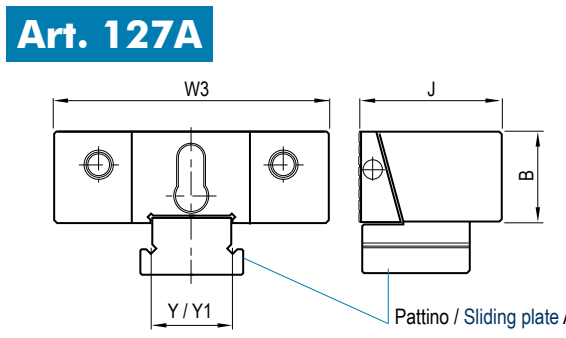
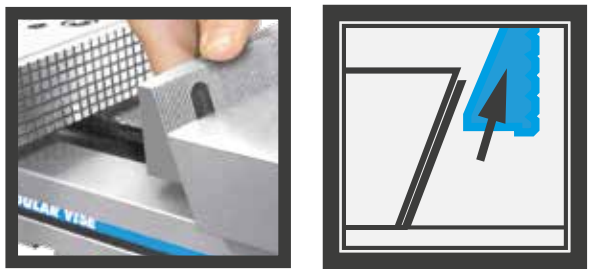
Piastra ganascia StdFLEX a cambio rapido / StdFLEX quick change jaw plates

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 120A Ganascia fissa Fixed jaw	Cod. 4.12.0A100 € 177	Cod. 4.12.0A200 € 225	Cod. 4.12.0A300 € 269	Cod. 4.12.0A400 € 317	Cod. 4.12.0A500 € 455	Cod. 4.12.0A600 € 699
Art. 123A Ganascia fissa doppia Double fixed jaw	Cod. 4.12.3A100 € 239	Cod. 4.12.3A200 € 330	Cod. 4.12.3A300 € 401	Cod. 4.12.3A400 € 470	Cod. 4.12.3A500 € 699	Cod. 4.12.3A600 € 1.045
Art. 126A Ganascia mobile oscillante Floating movable jaw	Cod. 4.12.6A100 € 177	Cod. 4.12.6A200 € 225	Cod. 4.12.6A300 € 269	Cod. 4.12.6A400 € 317	Cod. 4.12.6A500 € 455	Cod. 4.12.6A600 € 699
Art. 127A Ganascia mobile guidata Guided movable jaw	Cod. 4.12.7A100 € 177	Cod. 4.12.7A200 € 225	Cod. 4.12.7A300 € 269	Cod. 4.12.7A400 € 317	Cod. 4.12.7A500 € 455	Cod. 4.12.7A600 € 699



HRC= 60

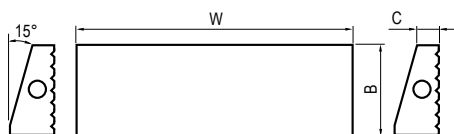
Ganacce StandardFLEX con piastre intercambiabili manualmente (Sistema a pettine)
StandardFLEX jaws with interchangeable jaw plates by hand (Comb system)



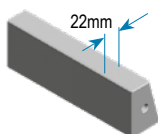
La ganascia mobile guidata, Art. 127A, può essere tramutata in ganascia mobile oscillante, sostituendo il pattino, Art. 306B, con il pattino Art. 306C (vedi pag. 4.28)
The guided movable jaw, Art. 127A, could be transformed in a floating movable jaw by simply exchanging the sliding plate, Art. 306B, 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

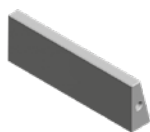
Piastra ganaschia StdFLEX a cambio rapido / StdFLEX quick change jaw plates

Tipo (grandezza) morsa / Vise type (size)
1 2 3 4 5 6
Piastra ganasche rapide singole. Ricambi per ganasche rapide a pettine
Single quick change jaw plates. Spares for quick change comb jaw


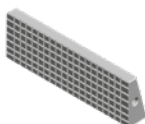
W	95	120	145	170	195	295
B	28	38	48	58	63	78
C	9	11	11	11	14	14

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
€	66	72	86	109	153	202

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
€	81	89	108	135	192	253

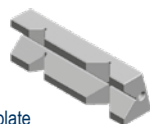
Art. 230D
Piastra ganaschia intercambiabile zigrinata a pettine
Serrated comb interchangeable jaw plate


Cod.	4.23.0D101	4.23.0D201	4.23.0D301	4.23.0D401	4.23.0D501	4.23.0D601
€	81	89	108	135	192	253

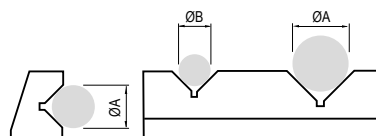
Art. 230E
Piastra ganaschia intercambiabile a gradino a pettine
Step comb interchangeable jaw plate

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

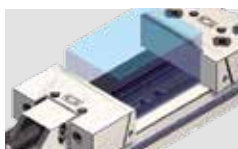
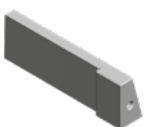
Cod.	4.23.0E101	4.23.0E201	4.23.0E301	4.23.0E401	4.23.0E501	4.23.0E601
€	81	89	108	135	192	253

Art. 230F
Piastra ganaschia intercambiabile prismatica a pettine
Prismatic comb interchangeable jaw plate


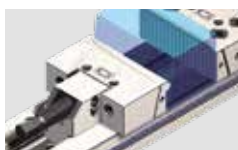
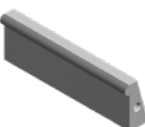
Ø min / max	A	6 / 16	9 / 24	13 / 38	15 / 40	15 / 42	15 / 42
Ø min / max	B	4 / 10	7 / 18	9 / 24	9 / 24	9 / 24	9 / 24



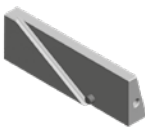
Cod.	4.23.0F101	4.23.0F201	4.23.0F301	4.23.0F401	4.23.0F501	4.23.0F601
€	107	116	139	176	248	328

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
€	81	89	108	135	192	253

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
€	81	89	108	135	192	253

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 !!

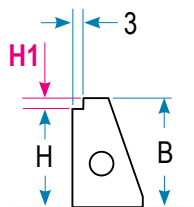
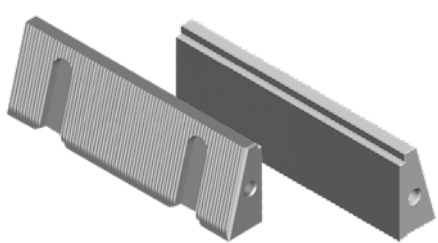
Cod.	4.23.0M101	4.23.0M201	4.23.0M301	4.23.0M401	4.23.0M501	4.23.0M601
€	107	116	139	176	248	328

Ganasce StandardFLEX a cambio rapido / StandardFLEX quick change jaws

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

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

€	387	639	895	1.123	1.598	2.115
---	-----	-----	-----	-------	-------	-------

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

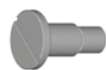
€	49	54	64	81	100	132
---	----	----	----	----	-----	-----

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

Specificare sempre quota H1
 Specify always H1 dimension

Art. 605G1

Vite a gradino / Step screw



Cod.	6.60.5G101
€	5

Art. 605G2

Perno a molla / Spring pin



Cod.	6.60.5G202
€	7

Art. 605G3

Molla / Spring



Cod.	6.60.5G301
€	11

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



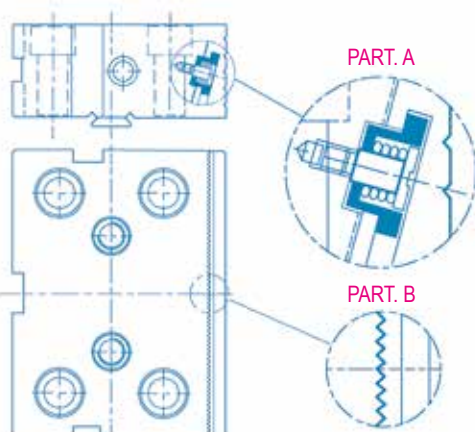
Cod.	4.32.0A100	4.32.0A200	4.32.0A300	4.32.0A400	4.32.0A500	4.32.0A600
€	430	692	953	1.190	1.678	2.217

Art. 320

Portapiastre
 Rack



Cod.	4.32.01000	4.32.02000	4.32.03000	4.32.04000	4.32.05000	4.32.06000
€	66	78	89	102	118	142



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.

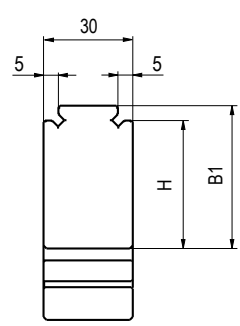
The speed of the jaw replacement is allowed by the new design of pin with spring (PART. A), while the prismatic grooves (PART. B), made with shaped grind wheel on the surface plates, allow a perfect repositioning.

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

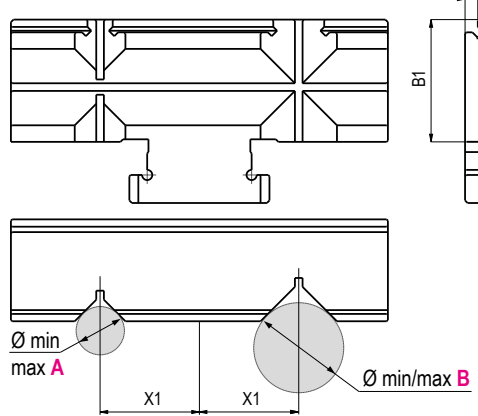
Ganascce MOBILI INTERMEDIE / INTERMEDIATE MOVABLE jaws

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 212 W3 Ganascia mobile intermedia con doppio gradino. Larghezza normale (W3) Intermediate movable jaw with double step. Normal width (W3)	Cod. 1.21.21000	1.21.22000	1.21.23000	1.21.24000	1.21.25000	1.21.26000
	€ 89	108	142	178	214	297
Art. 213 W2 Ganascia mobile intermedia con doppio gradino. Larghezza ridotta (W2) Intermediate movable jaw with double step. Narrow width (W2)	Cod. 1.21.31000	1.21.32000	1.21.33000	1.21.34000	1.21.35000	1.21.36000
	€ 89	108	142	178	214	297
Art. 214 W3 Ganascia mobile intermedia prismatica. Larghezza normale (W3) Prismatic intermediate movable jaw. Normal width (W3)	Cod. 1.21.41000	1.21.42000	1.21.43000	1.21.44000	1.21.45000	1.21.46000
	€ 141	142	178	225	297	506
Art. 215 W2 Ganascia mobile intermedia. Larghezza ridotta (W2) Intermediate movable jaw. Narrow width (W2)	Cod. 1.21.51000	1.21.52000	1.21.53000	1.21.54000	1.21.55000	1.21.56000
	€ 141	142	178	225	297	506
Art. 224 W3 Ganascia mobile intermedia. Larghezza normale (W3) Intermediate movable jaw. Normal width (W3)	Cod. 1.22.41000	1.22.42000	1.22.43000	1.22.44000	1.22.45000	1.22.46000
	€ 102	118	154	196	237	331
Art. 225 W2 Ganascia mobile intermedia. Larghezza ridotta (W2) Intermediate movable jaw. Narrow width (W2)	Cod. 1.22.51000	1.22.52000	1.22.53000	1.22.54000	1.22.55000	1.22.56000
	€ 102	118	154	196	237	331

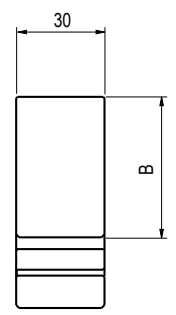
Art. 212



Art. 214



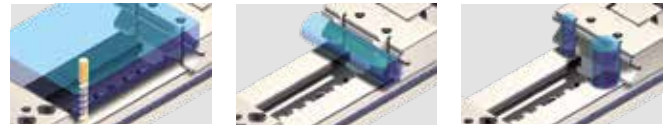
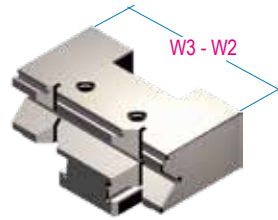
Art. 224



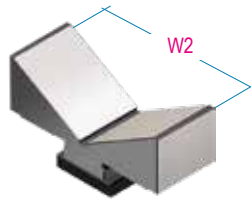
Art.	1	2	3	4	5	6
W3	96	121	146	171	196	296
W2	74	94	124	144	169	194
B	30	40	50	60	65	80
B1	28	38	48	58	63	78
H	23	33	43	53	53	68
J	30	30	40	40	45	50
X	11,5	16,5	21,5	26,5	26,5	34
X1	25	33	39	50	55	70
Ø min/max A	4 - 10	7 - 18	9 - 24	9 - 24	9 - 24	10 - 28
Ø min/max B	6 - 16	9 - 24	13 - 38	15 - 40	15 -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

Ganascce MOBILI PRISMATICHE / PRISMATIC MOVABLE jaws

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 217 W3 Ganascia mobile guidata prismatica. Larghezza normale (W3) Prismatic guided movable jaw. Normal width (W3)	Cod. 2.21.71000 € 141	Cod. 2.21.72000 € 117	Cod. 2.21.73000 € 166	Cod. 2.21.74000 € 225	Cod. 2.21.75000 € 297	Cod. 2.21.76000 € 506
Art. 218 W2 Ganascia mobile guidata prismatica. Larghezza ridotta (W2) Prismatic guided movable jaw. Narrow width (W2)	Cod. 2.21.81000 € 141	Cod. 2.21.82000 € 117	Cod. 2.21.83000 € 166	Cod. 2.21.84000 € 225	Cod. 2.21.85000 € 297	Cod. 2.21.86000 € 506



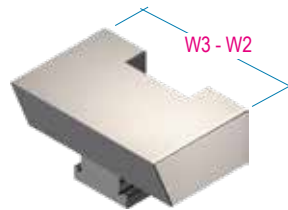
Art. 152 W2
Inserto prismatico.
Larghezza ridotta (W2)
Prismatic insert. Narrow width (W2)



Cod. 4.15.21000 € 220	Cod. 4.15.22000 € 276	Cod. 4.15.23000 € 335	Cod. 4.15.24000 € 391	Cod. 4.15.25000 € 484	Cod. 4.15.26000 € 722
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Ganascce per PARTICOLARI TONDI / Jaws for ROUND WORKPIECE

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



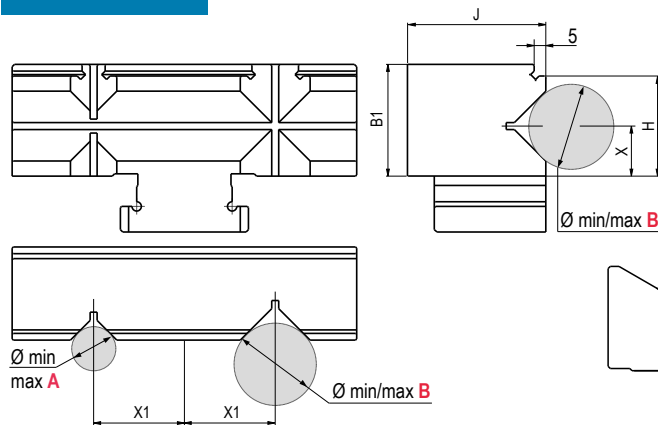
Cod. 2.21.01000 € 137	Cod. 2.21.02000 € 174	Cod. 2.21.03000 € 207	Cod. 2.21.04000 € 245	Cod. 2.21.05000 € 348	Cod. 2.21.06000 € 537
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------



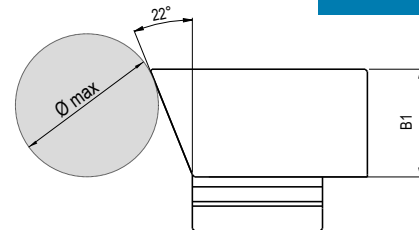
Art. 211 W2
Ganascia mobile oscillante.
Larghezza ridotta (W2)
Floating movable jaw. Narrow width (W2)

Cod. 2.21.11000 € 137	Cod. 2.21.12000 € 174	Cod. 2.21.13000 € 207	Cod. 2.21.14000 € 245	Cod. 2.21.15000 € 348	Cod. 2.21.16000 € 537
--------------------------	--------------------------	--------------------------	--------------------------	--------------------------	--------------------------

Art. 217



Art. 210



Art. 152

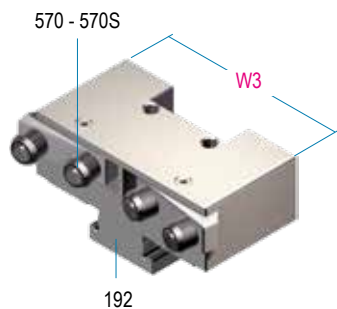
mm	1	2	3	4	5	6
W3	96	121	146	171	196	296
W2	74	94	124	144	169	194
B1	28	38	48	58	63	78
H	23	33	43	53	53	68
J	50	60	80	90	100	120
X	11,5	16,5	21,5	26,5	31,5	34
X1	25	33	39	50	50	70
Ø min / max A Art. 217	4 - 10	7 - 18	9 - 24	9 - 24	9 - 24	10 - 28
Ø min / max B Art. 217	6 - 16	9 - 24	13 - 38	15 - 40	15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

Ganascce MOBILI OLEODINAMICHE / HYDRAULIC MOVABLE jaws

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

Art. 192

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

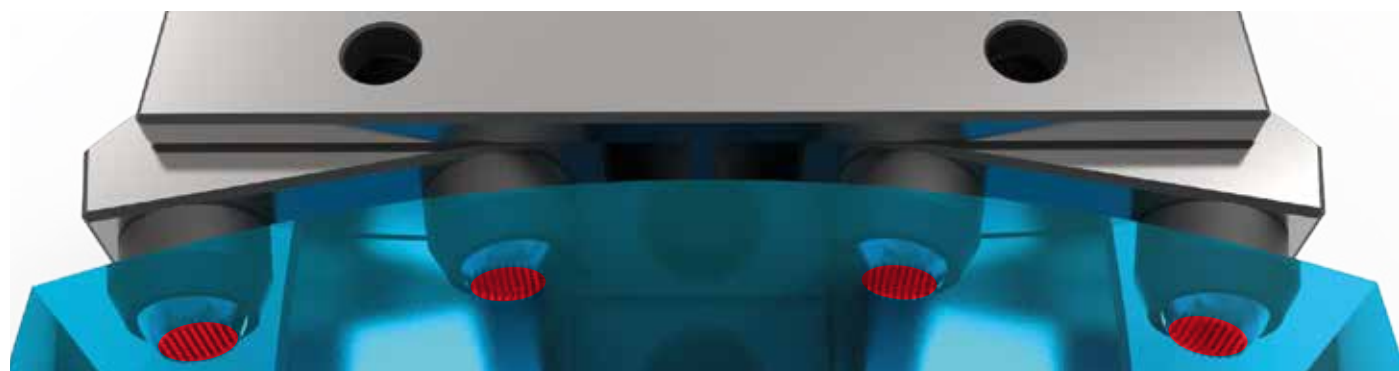


Per serraggio di particolari irregolari
 For irregular workpieces clamping

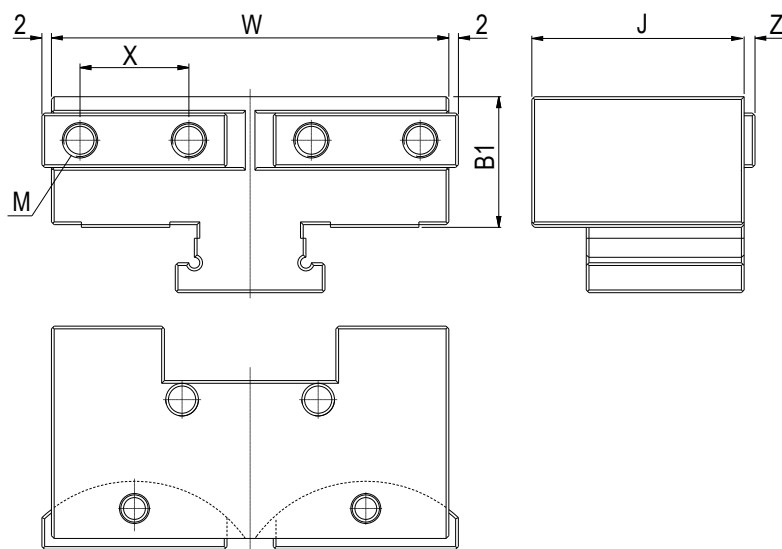
Art. 192S

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
€	409	525	627	697	888	1.177



Art. 192



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

PARALLELE MODULARI MAGNETICHE AD INNESTO RAPIDO QUICK MAGNETIC MODULAR PARALLEL PLATES

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

Nessun problema di magnetismo sui trucioli

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

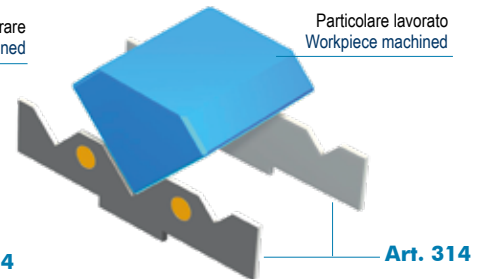
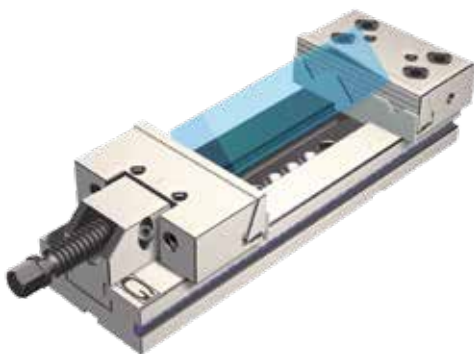
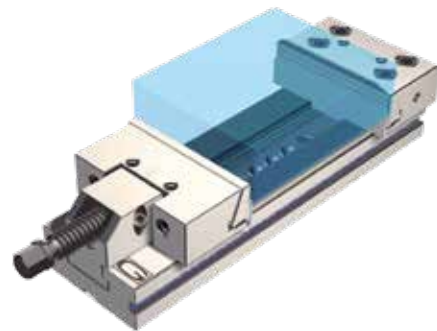
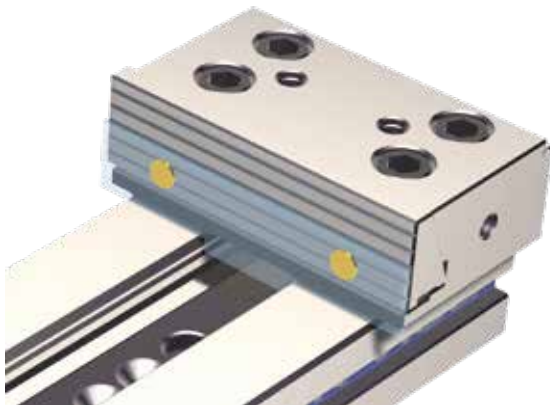
VANTAGGI:

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

ADVANTAGES:

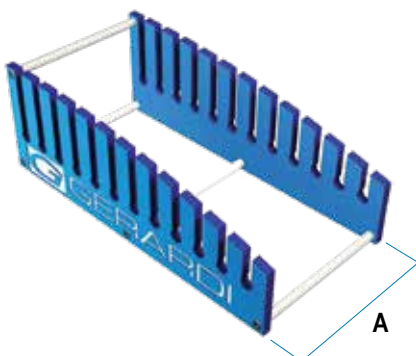
- Quick and accurate positioning.
 - Saving with respect to the substitution of the whole jaw.
 - Space and money saving with respect to the standard parallel plates.
 - Use magnetic plates with jaw plates completely tightened
- Of course each component is made of hardened and ground spring steel and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

ESEMPI DI APPLICAZIONE - TYPICAL ARRANGEMENTS



Art. 317

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



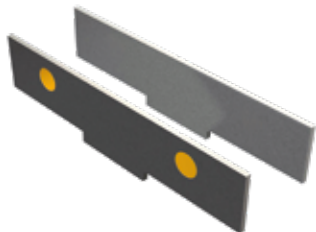
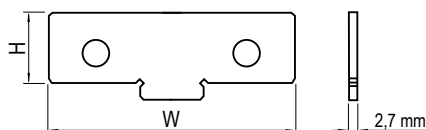
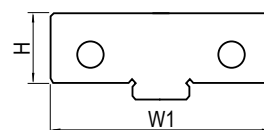
Per morse tipo (grandezza) da 1 a 6
For vises (type) size 1 ÷ 6

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
€	89					

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

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

Tipo (grandezza) morsa / Vise type (size)
1
2
3
4
5
6
Art. 313

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

Art. 313

Art. 313R

Art. 313R

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

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
€	60	78	98	115	131	148
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
€	60	78	98	115	131	148

Art. 313
Art. 313R

 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)

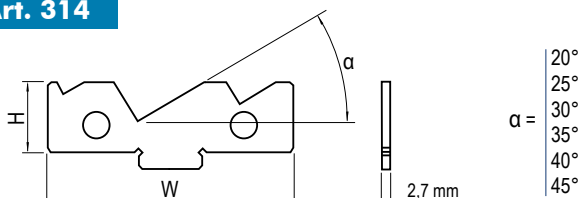

La rastrelliera Art. 317 (vuota) NON è inclusa nel prezzo del set. Vedi pag. 4.24

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
Cod.	4.31.01000	4.31.02000	4.31.03000	4.31.04000	4.31.05000	4.31.06000
€	243	304	368	438	486	563
Cod.	-	-	4.31.13000	4.31.14000	4.31.15000	4.31.16000
€	-	-	532	626	688	816

Art. 310
Art. 311
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
€	115	141	179	218	243	293

 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
€	537	600	681	752	877	1.067

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
€	7

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
Art. 132 Prolunga per ganascia mobile. Larghezza normale Extension for movable jaw. Normal width		NO StandardFLEX					
		Cod. 2.13.21000	2.13.22000	2.13.23000	2.13.24000	2.13.25000	2.13.26000
€	80	87	97	106	120	139	
Art. 134 Prolunga per ganascia mobile. Super ridotta Extension for movable jaw. Super narrow		Cod. 2.13.41000	2.13.42000	2.13.43000	2.13.44000	2.13.45000	2.13.46000
		€	80	87	97	106	120
Art. 133 Prolunga per ganascia fissa. Larghezza normale Extension for fixed jaw. Normal width		Cod. 2.13.31000	2.13.32000	2.13.33000	2.13.34000	2.13.35000	2.13.36000
		€	97	105	113	120	139
Art. 135 Prolunga per ganascia fissa. Ridotta e super ridotta Extension for fixed jaw. Narrow and super narrow		NO StandardFLEX					
		Cod. 2.13.51000	2.13.52000	2.13.53000	2.13.54000	2.13.55000	2.13.56000
€	97	105	113	120	139	154	
Art. 260 Segmento oscillante per ganasce mobili. Art. 190 - 191 Floating segment for movable jaws. Art. 190 - 191		Cod. 1.26.01000	1.26.02000	1.26.03000	1.26.04000	1.26.05000	1.26.06000
		€	46	52	52	68	98
Art. 362 Molla per piastre ganasce Spring for jaw plates		Cod. 0.70.10000	0.70.20000	0.70.30000	0.70.40000	0.70.50000	0.70.60000
		€	9	9	9	9	9
Art. 380 Vite TCEI fissaggio corpo ganascia fissa Hex socket and screw for fixed jaw body		Cod. 0.01.11030	0.01.10865	0.01.11450	0.01.11660	0.01.12065	0.01.12080
		€	7	7	8	8	10
Art. 381 Vite TCEI fissaggio piastra ganascia fissa Hex socket screw for fixed plate		Cod. 0.01.10565	0.01.11240	0.01.11451	0.01.11661	0.01.12066	0.01.12081
		€	6	6	6	6	7
Art. 382 Vite TCEI fissaggio piastra ganascia mobile Hex socket and screw for movable jaw plate		Cod. 0.01.10525	0.01.10830	0.01.10840	0.01.10845	0.01.11050	0.01.11065
		€	6	6	6	6	7
Art. 383 Vite TCEI fissaggio piastra ganascia fissa doppia Hex socket and screw for double fixed jaw		Cod. 0.01.10520	0.01.10620	0.01.10820	0.01.11820	0.01.11020	0.01.11020
		€	6	6	6	6	7
Art. 384 Vite TCEI per arresto laterale Hex socket and screw for workstop		Cod. 0.06.11100	0.06.22200	0.06.33300	0.06.44400	0.06.55500	0.06.66600
		€	6	6	6	6	7
Art. 431 Rondella per arresto laterale Washer for workstop		Cod. 2.43.11000	2.43.12000	2.43.13000	2.43.14000	2.43.15000	2.43.16000
		€	6	6	6	6	7
Art. 440 Dado per arresto laterale Nut for workstop		Cod. 2.44.01000	2.44.02000	2.44.03000	2.44.04000	2.44.05000	2.44.06000
		€	6	6	6	6	7
Art. 570 Puntale sferico Liscio Smooth spherical point		Cod. 1.57.01000	1.57.02000	1.57.03000	1.57.04000	1.57.05000	1.57.06000
		€	55	55	62	62	72
Art. 570S Puntale sferico zigrinato Serrated spherical point		Cod. 1.57.0S100	1.57.0S200	1.57.0S300	1.57.0S400	1.57.0S500	1.57.0S600
		€	55	55	62	62	72

CORPI GANASCE STANDARD / BODIES STANDARD JAWS

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 300 Corpo ganascia fissa. Larghezza normale Body fixed jaw. Normal width						
	Cod.	1.35.10000	1.35.20000	1.35.30000	1.35.40000	1.35.50000
€	88	120	144	164	234	388
Art. 301 Corpo ganascia fissa. Larghezza ridotta rettificata Body fixed jaw. Narrow width ground						
	Cod.	1.35.10300	1.35.20300	1.35.30300	1.35.40300	1.35.50300
€	130	172	205	236	338	548
Art. 303 Corpo ganascia fissa doppia. Larghezza normale Double body fixed jaw. Normal width						
	Cod.	1.35.10900	1.35.20900	1.35.30900	1.35.40900	1.35.50900
€	136	201	245	281	424	653
Art. 304 Corpo ganascia fissa doppia. Larghezza ridotta rettificata Double body fixed jaw. Narrow width ground						
	Cod.	1.35.11200	1.35.21200	1.35.31200	1.35.41200	1.35.51200
€	189	278	338	390	585	894
Art. 306 Corpo ganascia mobile guidata. Larghezza normale Body guided movable jaw. Normal width						
	Cod.	1.36.10000	1.36.20000	1.36.30000	1.36.40000	1.36.50000
€	88	120	144	164	234	388
Art. 302 NEW! 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
€	88	120	144	164	234	388
Art. 307 Corpo ganascia mobile guidata. Larghezza ridotta rettificata Body guided movable jaw. Narrow width ground						
	Cod.	1.36.11000	1.36.21000	1.36.31000	1.36.41000	1.36.51000
€	88	120	144	164	234	388
Art. 305 NEW! 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
€	88	120	144	164	234	388
Art. 308 Corpo ganascia mobile oscillante. Larghezza normale Body floating movable jaw. Normal width						
	Cod.	1.36.10400	1.36.20400	1.36.30400	1.36.40400	1.36.50400
€	88	120	144	164	234	388
Art. 309 Corpo ganascia mobile oscillante. Larghezza ridotta Body floating movable jaw. Narrow width						
	Cod.	1.36.10700	1.36.20700	1.36.30700	1.36.40700	1.36.50700
€	88	120	144	164	234	388
Art. 190 Corpo ganascia mobile oscillante con 2 segmenti oscillanti. Larghezza normale Body floating movable jaw with 2 floating segments. Normal width						
	Cod.	2.19.01000	2.19.02000	2.19.03000	2.19.04000	2.19.05000
€	196	311	383	452	652	948

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	
€	88	120	144	164	234	388

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	
€	130	172	205	236	338	548

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	
€	136	201	245	281	424	653

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	
€	189	278	338	390	585	894

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	
€	88	120	144	164	234	388

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	
€	88	120	144	164	234	388

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	
€	88	120	144	164	234	388

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	
€	88	120	144	164	234	388

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	
€	97	137	164	182	264	447

Art. 303A

 Corpo ganascia fissa doppia
 Double fixed jaw body

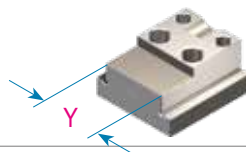

Cod.	1	2	3	4	5	6
1.30.3A100	1.30.3A200	1.30.3A300	1.30.3A400	1.30.3A500	1.30.3A600	
€	158	243	295	337	509	793

Art. 306A

 Corpo ganascia mobile guidata
 Guided movable jaw body

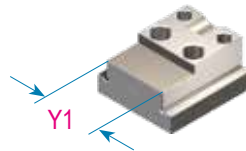

Cod.	1	2	3	4	5	6
1.30.6A100	1.30.6A200	1.30.6A300	1.30.6A400	1.30.6A500	1.30.6A600	
€	97	137	164	182	264	447

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	
€	50	64	78	82	124	141

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	
€	50	64	78	82	124	141

Y1 = Y - 1mm

GRUPPI PREASSEMBLATI / PRE-ASSEMBLED GROUP

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6						
Art. 105 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
€							341	390	463	508	736	918

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

Art. 365 Anello esterno per base girevole Outer ring swivel base						
Cod.						
€	318	363	432	473	689	860

Art. 366 Anello interno per base girevole Inner ring swivel base						
Cod.						
€	153	175	209	226	330	411

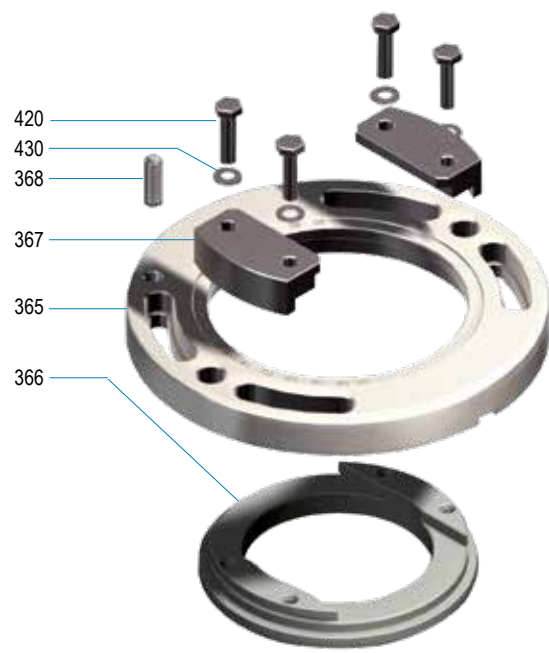
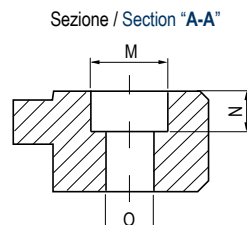
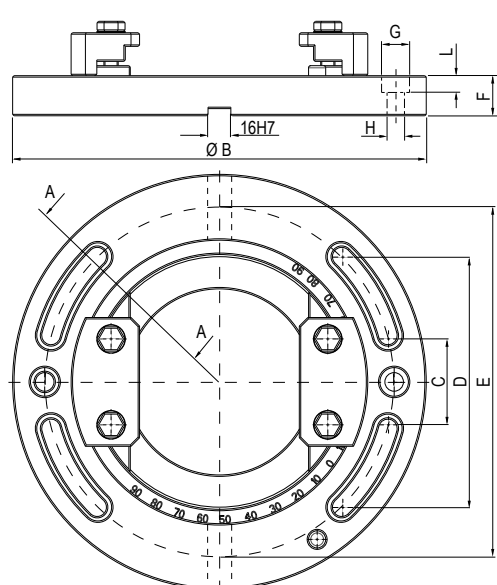
Art. 367 Staffa per base girevole Clamp swivel base						
Cod.						
€	45	45	53	53	61	61

Art. 368 Spina cilindrica per base girevole Straight pin swivel base						
Cod.						
€	6	6	8	8	8	10

Art. 420 Vite esagonale per base girevole Bolt swivel base						
Cod.						
€	4	4	4	5	5	5

Art. 430 Rondella per base girevole Washer swivel base						
Cod.						
€	4	4	4	4	4	4

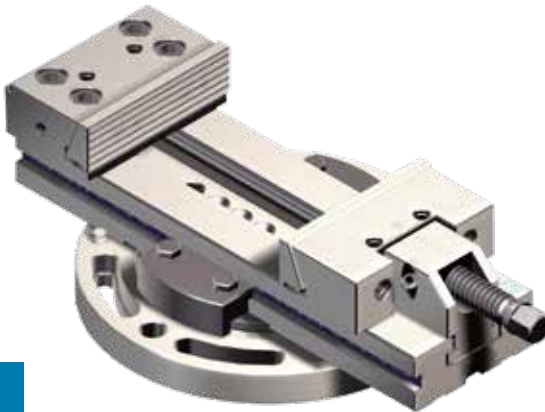
Art. 105 Base girevole / Swivel base
(Art. 365 + 366 + 367 + 368 + 420 + 430)



GRUPPI PREASSEMBLATI / PRE-ASSEMBLED GROUP

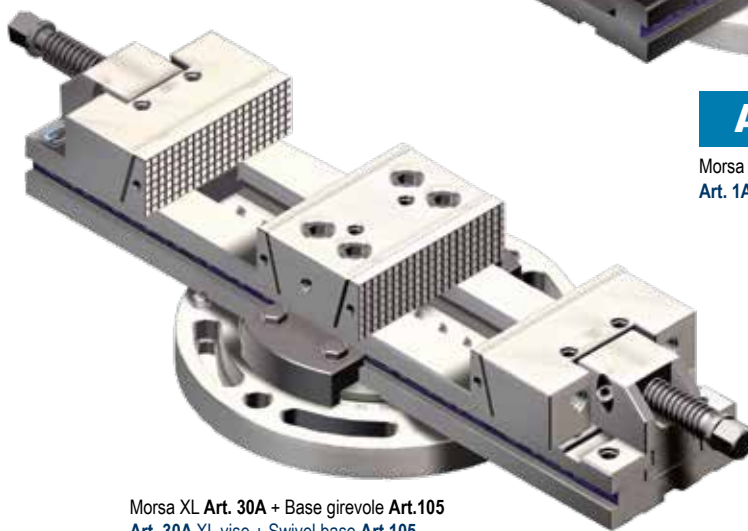
Art. 2

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

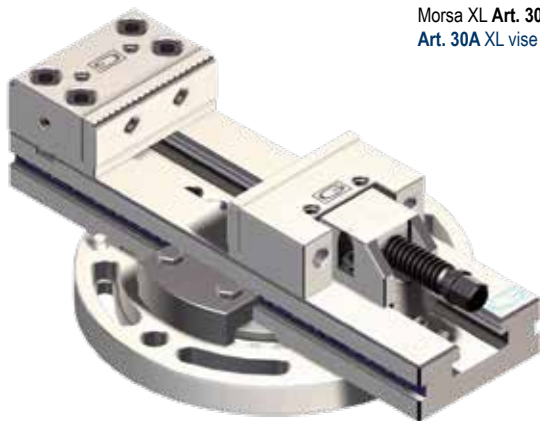


Art. 2A

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

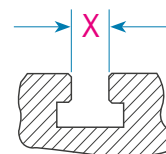
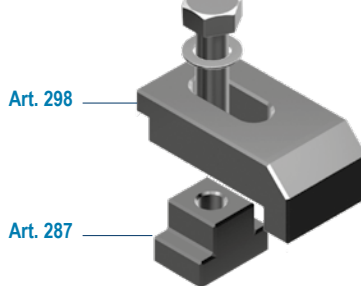
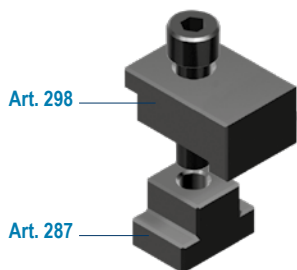
Morsa STD Art. 1 + Base girevole Art.105
Art. 1 STD vise + Swivel base Art.105

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)



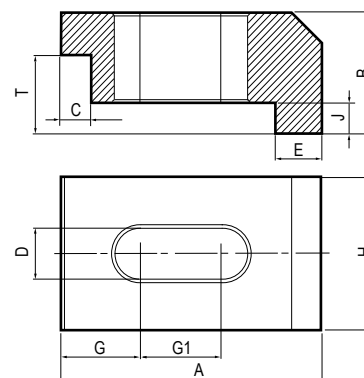
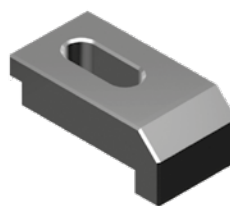
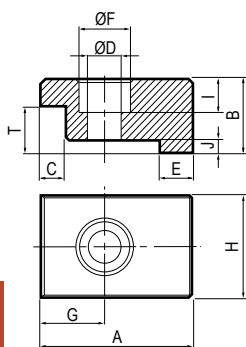
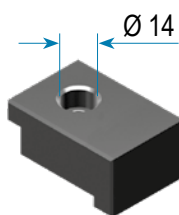
Specificare sempre la cava della vostra macchina

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	1 x M8	1 x M10	1 x M12	1 x M16	2 x M12	2 x M16	3 x M12	3 x M16
Cod.	2.29.61000 / M8	2.29.61000 / M10	2.29.61000 / M12	2.29.61000 / M16	2.29.63000 / M12	2.29.63000 / M16	2.29.65000 / M12	2.29.65000 / M16
€	37	37	37	37	48	48	74	74

Art. 298

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

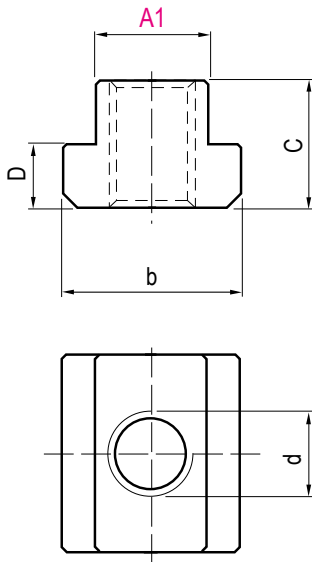

Solo per tipo 1 x M8
Only for type 1 x M8

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	1 x M8	1 x M10	1 x M12	1 x M16	1 x M12	1 x M16	1 x M12	1 x M16
A	50	50	50	50	76	76	86	86
B	24	24	24	24	30	30	40	40
C	6	6	6	6	6	6	10	10
Ø D	8,5	11	13	17	13	17	13	17
E	10	10	10	10	13	13	15	15
Ø F	14	-	-	-	-	-	-	-
G / G1	17	16 / 15	17,5 / 13	19 / 9	17 / 22	16 / 15	26 / 27	26 / 27
H	34	34	34	34	42	42	50	50
I	8	10	10	10	-	-	-	-
J	4	4	4	4	10	10	10	10
T ± 0,1	15	15	15	15	20	20	26	26
Cod.	2.29.81000 / M8	2.29.81000 / M10	2.29.81000 / M12	2.29.81000 / M16	2.29.83000 / M12	2.29.83000 / M16	2.29.85000 / M12	2.29.85000 / M16
€	12	12	12	12	17	17	28	28

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

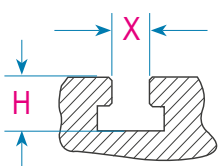
In the purchase order
specify the **N** number
of the T nut in the code

Esempio / Example

Cod. 2.28.74000 / 24



DIN 650



Specificare sempre la cava
della vostra macchina

Always specify
the machine T-slot dimension

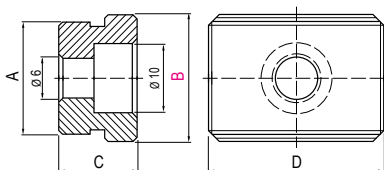
N	d	A1	b	C	D	N	d	A1	b	C	D
01	M5 x 6	5,7	10	8	4	31	M14 x 24	23,7	40	32	16
02	M5 x 8	7,7	13	10	5	32	M16 x 18	17,7	28	20	10
03	M5 x 10	9,7	15	12	6	33	M16 x 20	19,7	32	24	12
04	M6 x 8	7,7	13	10	5	34	M16 x 22	21,7	35	28	14
05	M6 x 10	9,7	15	12	6	35	M16 x 24	23,7	40	32	16
06	M6 x 12	11,7	18	14	7	36	M16 x 28	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						
€	11		19		38						

ATTREZZI e DOTAZIONI / TOOLS and EQUIPMENT

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

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									
€	28									

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
€	4	4	4	4	4	4

Art. 325

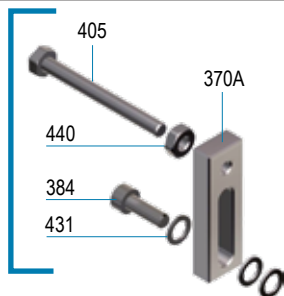
 Chiave esagonale a bussola
 Hexagon bushing


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
€	41	41	41	41	41	41
CH	22	24	27	30	32	-
Cod.	0.09.32522	0.09.32524	0.09.32527	0.09.32530	0.09.32532	-
€	41	52	52	52	52	-

Art. 370

 Arresto laterale completo
 Complete workstop

Art. 370



Cod.	2.37.01000	2.37.03000	2.37.05000
€	20	24	38

Art. 405

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

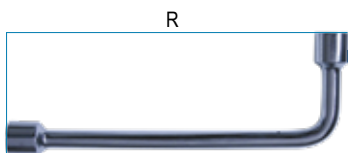
Cod.	1.77.10120	1.77.16180
€	9	10

Art. 370A

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

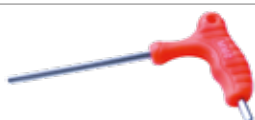
Cod.	2.37.0A100	2.37.0A300	2.37.0A500
€	10	12	28

Art. 375

 Chiave a pipa
 Box wrench


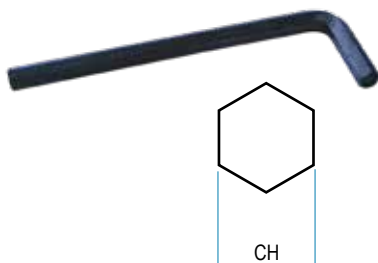
CH	12	19	22	30
R	200	250	285	480
Cod.	0.09.41160	0.09.42180	0.09.43320	0.09.43360
€	22	25	29	51

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
€	12	13	13	16

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
€	6	6	6	6	6	6
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
€	7	7	7	8	8	9
CH	12	13	14	17	19	-
Cod.	0.09.37712	0.09.37713	0.09.37714	0.09.37717	0.09.37719	-
€	10	13	15	20	30	-

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

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
€	176	203	273

DISPOSITIVI MECCANICI / MECHANICAL BLOCKING DEVICES

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 258						
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
€	137	160	196	220	274	409

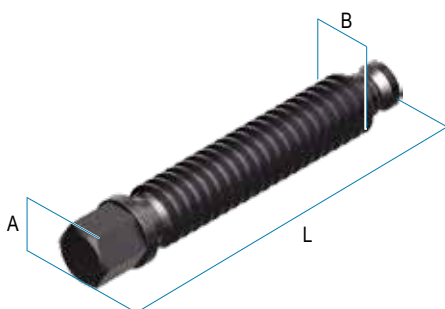
Gruppo di serraggio meccanico completo senza accessori
 Mechanical clamping device complete No accessories



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

RICAMBI / SPARE PARTS
Art. 360

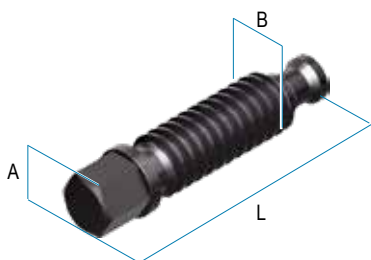
Vite di spinta. Normale
 Clamping bolt. Normal



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
€	41	55	66	95

Art. 355

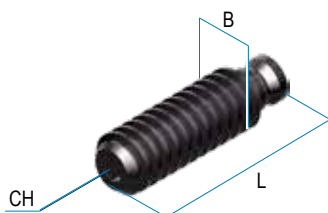
Vite di spinta. Ridotta
 Clamping bolt. Short



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
€	41	55	66	95

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
€	41	55	66	95

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
€	108	113	137	160	184	320

Art. 410

Grano
 Setscrew



Cod.	0.06.20810	0.06.21012	0.06.21216	0.06.21620	0.06.21630	0.06.31360
	M8 x 20	M10 x 25	M12 x 30	M12 x 40	M20 x 50	M20 x 50
	CH. 3	CH. 5	CH. 6	CH. 6	CH. 10	CH. 10
€	6	6	8	8	9	9


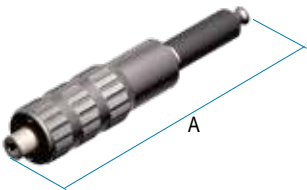


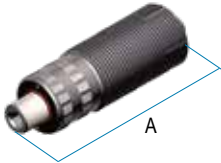

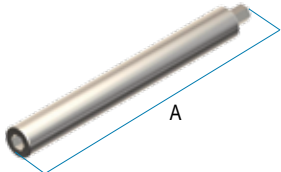
Art. 361

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"
€	8	9	10	10	13	13

SERVOCOMANDI OLEODINAMICI / HYDRAULIC SERVO UNITS

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 257 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	
€	-	645	688	841	880	
Art. 284 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	
€	-	201	245	360	398	
Art. 286 Mandrino a vite idraulica Hydraulic spindle						
Kn	-	12	20			
A	-	420	359			
Cod.	-	4.28.63000	4.28.65000			
€	-	444	483			
Art. 295 Gruppo di serraggio a vite idraulica compatto Compact hydraulic hand screw clamping device						
Cod.	-	4.29.53000	4.29.54000	-	-	
€	-	504	547	-	-	
Art. 294 Supporto di serraggio per mandrino compatto a vite idraulica Clamping support for compact hydraulic spindle						
Cod.	-	4.29.43000	4.29.44000	-	-	
€	-	201	244	-	-	
Art. 293 Mandrino compatto a vite idraulica Compact hydraulic spindle						
Kn	-	10	-			
A	-	173				
Cod.	-	4.29.33000	4.29.34000	-	-	
€	-	303	-	-		
Art. 290 Manovella per mandrino a vite idraulica Crank hydraulic spindle						
Cod.	-	0.09.73000				
€	-	52				
Art. 292 Prolunga per Art. 290 Extension for Art. 290						
A	160 / 260					
Cod.	-	4.29.23000				
€	-	39				

METODI ALTERNATIVI DI SERRAGGIO

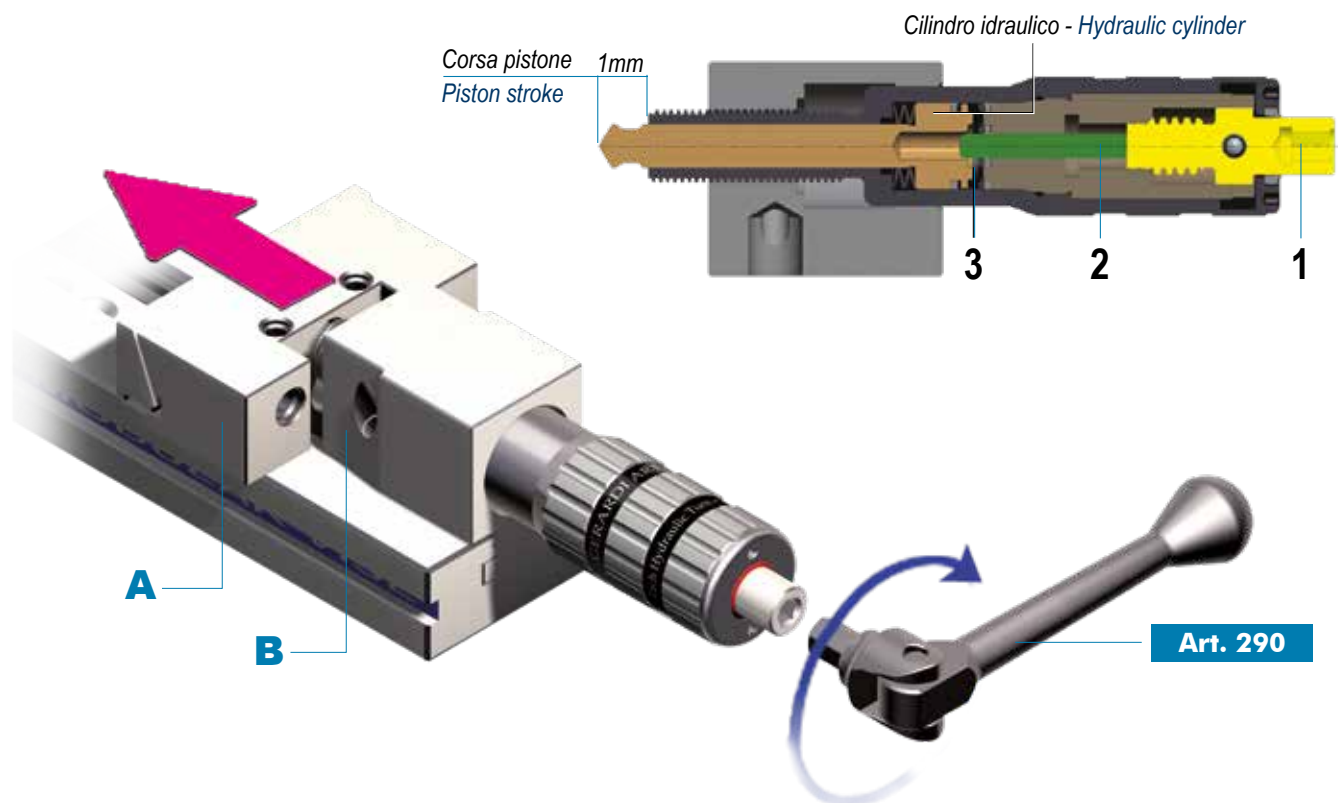
ALTERNATIVE CLAMPING OPTION

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

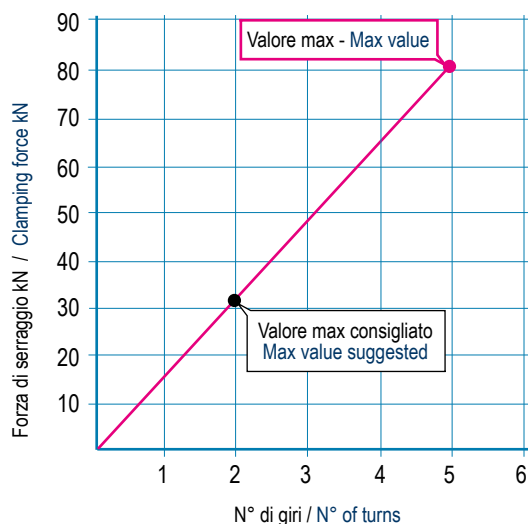
(Art. 257 - Art. 295)

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

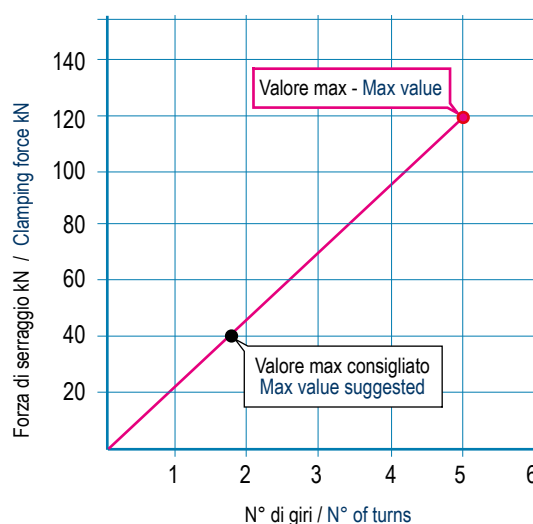
Gruppo di serraggio a Vite Idraulica TIPO 3/4
Hydraulic hand screw clamping device TYPE



Art. 257

Autonomo - Self contained

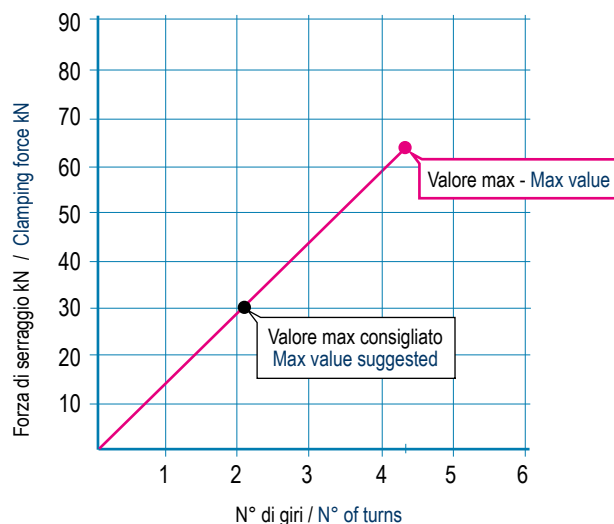
Gruppo di serraggio a Vite Idraulica TIPO 5/6
Hydraulic hand screw clamping device TYPE



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)

1	2	3	4	5	6
---	---	---	---	---	---

Art. 271

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

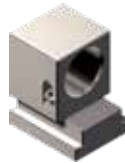

Cod.	2.27.11000	2.27.12000	2.27.13000	2.27.14000	2.27.15000	2.27.16000
€	314	322	331	361	519	615
Corsa Stroke	30	40				

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
€	415	660	700	730	780	860
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
€	108	114	123	151	221	246

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
€	200	219	219	314

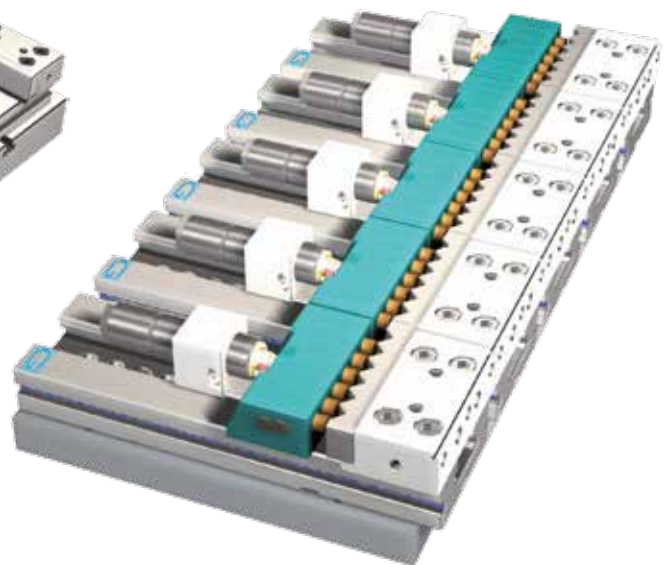
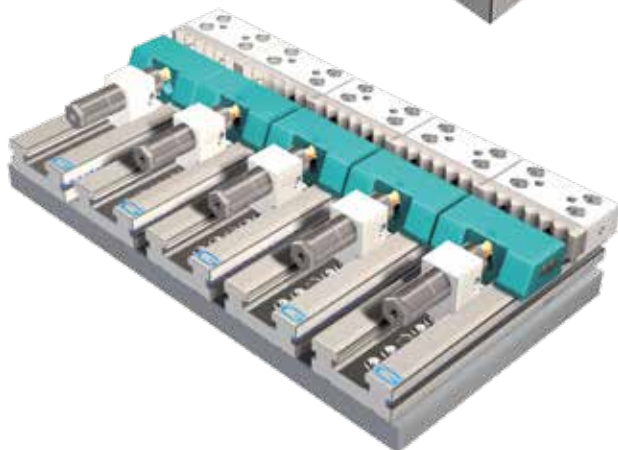
Art. 569

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

Specifico per sistemi robotizzati - Specific for robotic applications

Cod.	1.56.91000	1.56.92000	1.56.93000	1.56.95000
€	219	480	500	500

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

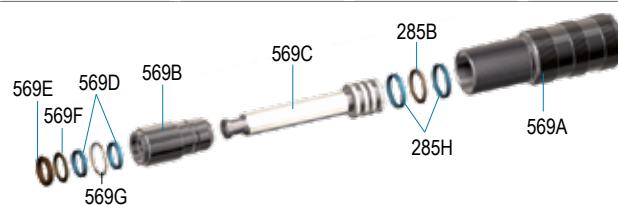


Art. 285A	Cilindro / Cylinder	Cod.	4.28.5A100	4.28.5A200	4.28.5A300	4.28.5A500
		€	150	150	150	193
Art. 285B	Guarnizione pistone / Piston seal	Cod.	4.28.5B100	4.28.5B200	4.28.5B300	4.28.5B500
		€	7	8	8	9
Art. 285C	Pistone / Piston	Cod.	4.28.5C100	4.28.5C200	4.28.5C300	4.28.5C500
		€	101	101	101	129
Art. 285D	Molla / Spring	Cod.	4.28.5D100	4.28.5D200	4.28.5D300	4.28.5D500
		€	12	15	15	17
Art. 285E	Bussola / Bushing	Cod.	4.28.5E100	4.28.5E200	4.28.5E300	4.28.5E500
		€	8	9	9	10
Art. 285F	Ghiera / Blocking nut	Cod.	4.28.5F100	4.28.5F200	4.28.5F300	4.28.5F500
		€	15	17	17	20
Art. 285G	Guarnizione / Seal	Cod.	4.28.5G100	4.28.5G200	4.28.5G300	4.28.5G500
		€	7	8	8	9
Art. 285H	Anello guida / Guiging ring	Cod.	4.28.5H100	4.28.5H200	4.28.5H300	4.28.5H500
		€	7	8	8	9
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
		€	164	221	221	249
Art. 285B	Guarnizione pistone / Piston seal	Cod.	4.28.5B100	4.28.5B200	4.28.5B300	4.28.5B500
		€	7	8	8	9
Art. 569B	Prolunga cilindro / Cylinder extension	Cod.	4.56.9B100	4.56.9B200	4.56.9B300	4.56.9B500
		€	50	50	90	100
Art. 569C	Pistone / Piston	Cod.	4.56.9C100	4.56.9C200	4.56.9C300	4.56.9C500
		€	97	97	97	123
Art. 569D	Anello guida / Guiging ring	Cod.	4.56.9D100	4.56.9D200	4.56.9D300	4.56.9D500
		€	7	8	8	9
Art. 569E	Raschiatore / Scraping seal	Cod.	4.56.9E100	4.56.9E200	4.56.9E300	4.56.9E500
		€	7	8	8	9
Art. 569F	Guarnizione cilindro / Cylinder seal	Cod.	4.56.9F100	4.56.9F200	4.56.9F300	4.56.9F500
		€	7	8	8	9
Art. 569G	Guarnizione / Seal	Cod.	4.56.9G100	4.56.9G200	4.56.9G300	4.56.9G500
		€	7	8	8	9
Art. 285H	Anello guida / Guiging ring	Cod.	4.28.5H100	4.28.5H200	4.28.5H300	4.28.5H500
		€	7	8	8	9
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	
Art. 390 N° 1 serraggio N° 1 clamping MORSA NON COMPRESA WISE NOT INCLUDED Art. 393 + Art. 271 + Art. 403 (m 1,5)			271 cilindro idraulico Hydraulic cylinder		403 tubo idraulico Multispiral Hydraulic pipe Multispiral		Cod. 4.39.01000 4.39.02000 4.39.03000 4.39.04000 4.39.05000 4.39.06000
	€ 1.413	€ 1.423	€ 1.431	€ 1.458	€ 1.611	€ 1.699	
	393 centralina a comando manuale Power unit with manual control						
Art. 390/2 N° 2 serraggi contemporanei N° 2 simultaneously clamping Art. 390 + n° 1 Art. 271			+1 Art. 271		405H*		Cod. 4.39.01002 4.39.02002 4.39.03002 4.39.04002 4.39.05002 4.39.06002
	€ 1.710	€ 1.728	€ 1.744	€ 1.800	€ 2.104	€ 2.283	
	* 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			+2 Art. 271		405H*		Cod. 4.39.01003 4.39.02003 4.39.03003 4.39.04003 4.39.05003 4.39.06003
	€ 2.006	€ 2.031	€ 2.060	€ 2.141	€ 2.598	€ 2.869	
	* 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			+3 Art. 271		405H*		Cod. 4.39.01004 4.39.02004 4.39.03004 4.39.04004 4.39.05004 4.39.06004
	€ 2.302	€ 2.338	€ 2.374	€ 2.481	€ 3.092	€ 3.452	
	* 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)			397		403		Cod. 4.40.71000 4.40.72000 4.40.73000 4.40.74000 4.40.75000 4.40.76000
	€ 613	€ 621	€ 630	€ 657	€ 811	€ 901	
Art. 390A / 2 N° 2 serraggi indipendenti N° 2 independent clamping Art. 390 + n° 1 Art. 407			+1 Art. 407		405H*		Cod. 4.39.0A102 4.39.0A202 4.39.0A302 4.39.0A402 4.39.0A502 4.39.0A602
	€ 2.025	€ 2.044	€ 2.061	€ 2.115	€ 2.420	€ 2.599	
Art. 390A / 3 N° 3 serraggi indipendenti N° 3 independent clamping Art. 390 + n° 2 Art. 407			+2 Art. 407		405H*		Cod. 4.39.0A103 4.39.0A203 4.39.0A303 4.39.0A403 4.39.0A503 4.39.0A603
	€ 2.636	€ 2.664	€ 2.691	€ 2.771	€ 3.230	€ 3.498	
Art. 390A / 4 N° 4 serraggi indipendenti N° 4 independent clamping Art. 390 + n° 3 Art. 407			+3 Art. 407		405H*		Cod. 4.39.0A104 4.39.0A204 4.39.0A304 4.39.0A404 4.39.0A504 4.39.0A604
	€ 3.248	€ 3.285	€ 3.320	€ 3.427	€ 4.039	€ 4.398	

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

Tipo (grandezza) morsa / Vise type (size)

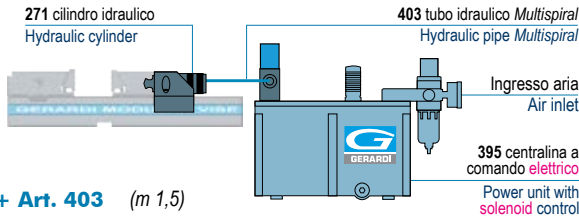
1 2 3 4 5 6

Art. 391

N° 1 serraggio
N° 1 clamping

MORSA NON COMPRESA
VISE NOT INCLUDED

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



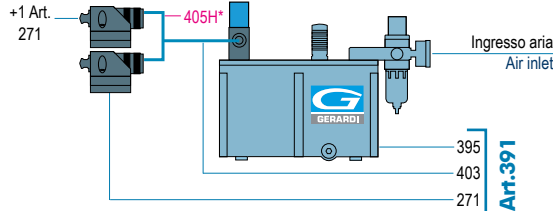
Cod. 4.39.11000 4.39.12000 4.39.13000 4.39.14000 4.39.15000 4.39.16000

€ 1.530 1.542 1.549 1.576 1.729 1.818

Art. 391 / 2

N° 2 serraggi contemporanei
N° 2 simultaneously clamping

Art. 391 + n° 1 Art. 271



Cod. 4.39.11002 4.39.12002 4.39.13002 4.39.14002 4.39.15002 4.39.16002

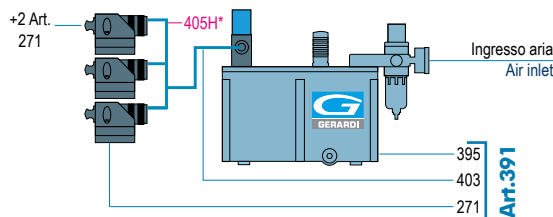
€ 1.829 1.846 1.863 1.918 2.223 2.402

* 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

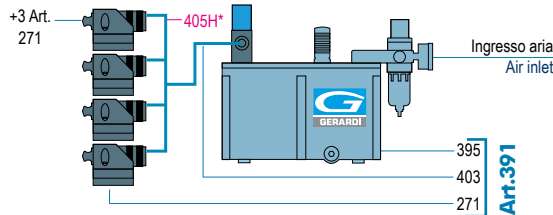
€ 2.124 2.151 2.177 2.259 2.716 2.986

* 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

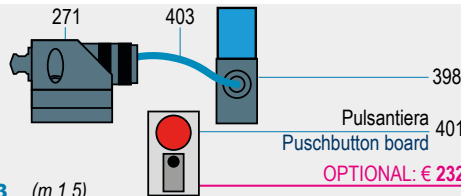
€ 2.847 2.456 2.493 2.600 2.855 3.569

* 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

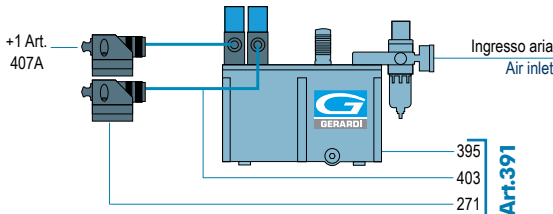
€ 768 778 787 815 966 1.056

OPTIONAL: € 232

Art. 391A / 2

N° 2 serraggi indipendenti
N° 2 independent clamping

Art. 391 + n° 1 Art. 407A



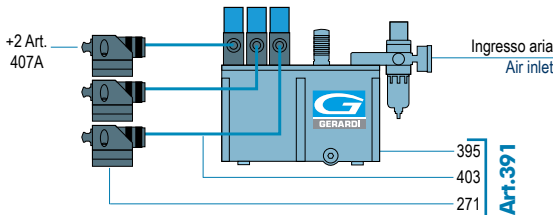
Cod. 4.39.1A102 4.39.1A202 4.39.1A302 4.39.1A402 4.39.1A502 4.39.1A602

€ 2.300 2.316 2.335 2.390 2.694 2.874

Art. 391A / 3

N° 3 serraggi indipendenti
N° 3 independent clamping

Art. 391 + n° 2 Art. 407A



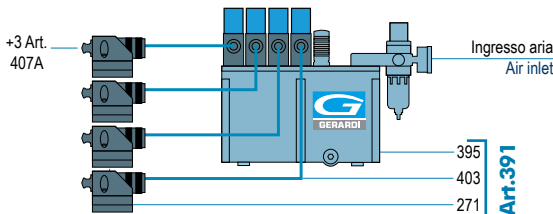
Cod. 4.39.1A103 4.39.1A203 4.39.1A303 4.39.1A403 4.39.1A503 4.39.1A603

€ 3.067 3.095 3.120 3.203 3.659 3.930

Art. 391A / 4

N° 4 serraggi indipendenti
N° 4 independent clamping

Art. 391 + n° 3 Art. 407A



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

€ 3.835 3.871 3.907 4.015 4.624 4.983

COMANDO PNEUMATICO singolo effetto / Single effect PNEUMATIC CONTROL

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

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
€	1.489	1.499	1.508	1.535	1.688	1.777

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

Art. 392 / 2

N° 2 serraggi contemporanei
N° 2 simultaneously clamping

+1 Art. 271

-405H*

Art. 392 + n° 1 Art. 271

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
€	1.787	1.804	1.823	1.877	2.182	2.360

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

Art. 392 / 3

N° 3 serraggi contemporanei
N° 3 simultaneously clamping

+2 Art. 271

-405H*

Art. 392 + n° 2 Art. 271

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
€	2.083	2.109	2.136	2.216	2.675	2.945

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

Art. 392 / 4

N° 4 serraggi contemporanei
N° 4 simultaneously clamping

+3 Art. 271

-405H*

Art. 392 + n° 3 Art. 271

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
€	2.379	2.416	2.450	2.559	3.170	3.528

* 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
€	707	715	724	752	904	993

Art. 392A / 2

N° 2 serraggi indipendenti
N° 2 independent clamping

+1 Art. 271

+1 Art. 402

Art. 392 + n° 1 Art. 407B

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
€	2.431	2.452	2.469	2.531	2.915	3.095

Art. 392A / 3

N° 3 serraggi indipendenti
N° 3 independent clamping

+2 Art. 271

+2 Art. 402

Art. 392 + n° 2 Art. 407B

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
€	2.829	2.854	2.880	2.959	3.401	3.663

Art. 392A / 4

N° 4 serraggi indipendenti
N° 4 independent clamping

+2 Art. 271

+3 Art. 402

Art. 392 + n° 3 Art. 407B

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
€	3.498	3.534	3.568	3.671	4.260	4.605

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

€ 1.022

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

€ 179

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

€ 174

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

€ 1.022

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

€ 197

Art. 396B

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



Cod. 4.39.6B000

€ 192

Art. 395

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

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



Cod. 4.39.54500

€ 1.141

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

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



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

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



Art. 398

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

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



Cod. 4.39.80000

€ 344

Art. 398B

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



Cod. 4.39.8B000

€ 339

COMANDO MANUALE doppio effetto / Double effect MANUAL CONTROL

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

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
€	1.621	1.900	1.950	2.000	2.050	2.150

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
€	1.937	2.500	2.600	2.700	2.800	3.000

* 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
€	2.252	3.100	3.250	3.400	3.550	3.850

* 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
€	2.567	3.600	3.800	4.000	4.200	4.600

* 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
€	848	1.100	1.150	1.200	1.250	1.350

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
€	2.468	3.000	3.100	3.200	3.300	3.500

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
€	3.315	4.150	4.300	4.450	4.600	4.900

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
€	4.162	5.200	5.400	5.600	5.800	6.200

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

Tipo (grandezza) morsa / Vise type (size)

1 2 3 4 5 6

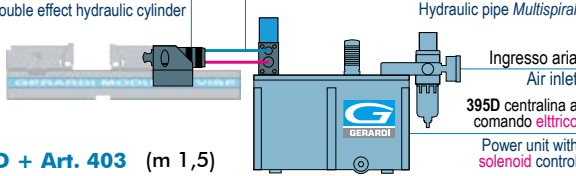
Art. 391B

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

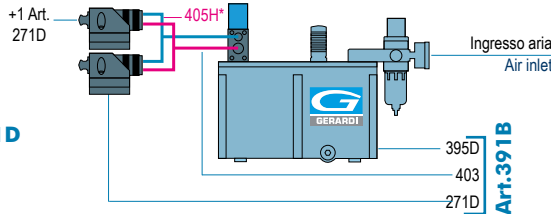
€ 1.738 2.000 2.050 2.100 2.150 2.250

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

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

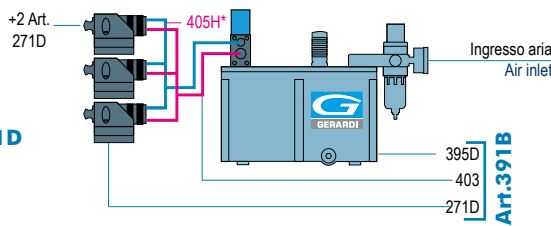
€ 2.055 2.600 2.700 2.800 2.900 3.100

* 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

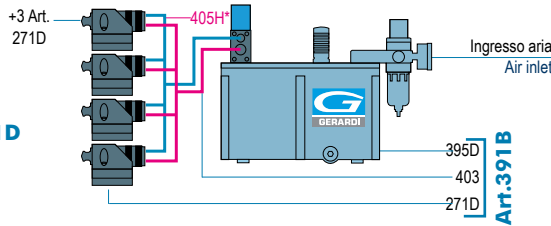
€ 2.370 3.200 3.350 3.500 3.650 3.950

* 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

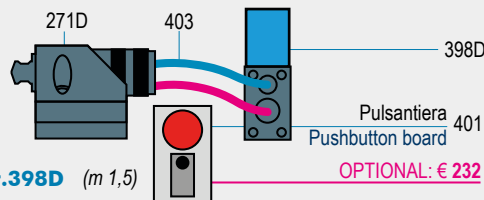
€ 3.111 3.700 3.900 4.100 4.300 4.700

* 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

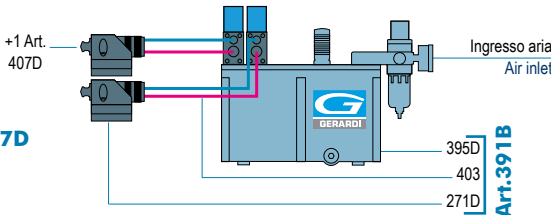
€ 1.004 1.250 1.300 1.350 1.400 1.500

OPTIONAL: € 232

Art. 391C / 2

N° 2 serraggi indipendenti
N° 2 independent clamping

Art. 391B + n° 1 Art. 407D



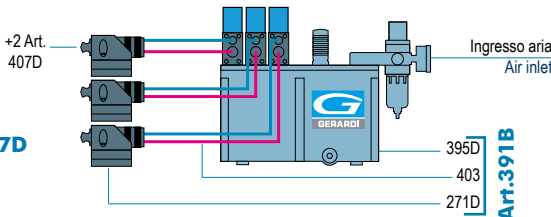
Cod. 4.39.1C102 4.39.1C202 4.39.1C302 4.39.1C402 4.39.1C502 4.39.1C602

€ 2.744 3.300 3.400 3.500 3.600 3.800

Art. 391C / 3

N° 3 serraggi indipendenti
N° 3 independent clamping

Art. 391B + n° 2 Art. 407D



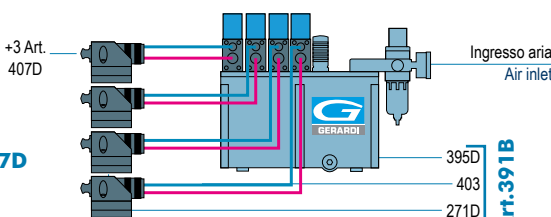
Cod. 4.39.1C103 4.39.1C203 4.39.1C303 4.39.1C403 4.39.1C503 4.39.1C603

€ 3.746 4.600 4.750 4.900 5.050 5.350

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

€ 4.749 5.800 6.000 6.200 6.400 6.800

COMANDO PNEUMATICO doppio effetto / Double effect PNEUMATIC CONTROL

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

Art. 392B

402/90 Valvola pneumatica / Pneumatic valve
 271D cilindro idraulico doppio effetto / double effect hydraulic cylinder
 403 tubo idraulico Multispiral / Hydraulic pipe Multispiral
 394D centralina a comando pneumatico / Power unit with air control valve

N° 1 serraggio / N° 1 clamping

MORSA NON COMPRESA / VISE NOT INCLUDED

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

Cod.	4.39.2B100	4.39.2B200	4.39.2B300	4.39.2B400	4.39.2B500	4.39.2B600
€	1.697	1.725	1.734	1.761	1.895	1.975

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

Art. 392B / 2

+1 Art. 271D
 405H*
 N° 2 serraggi contemporanei / N° 2 simultaneously clamping

Art. 392B + n° 1 Art.271D

Cod.	4.39.2B102	4.39.2B202	4.39.2B302	4.39.2B402	4.39.2B502	4.39.2B602
€	2.013	2.067	2.086	2.140	2.406	2.566

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

Art. 392B / 3

+2 Art. 271D
 405H*
 N° 3 serraggi contemporanei / N° 3 simultaneously clamping

Art. 392B + n° 2 Art.271D

Cod.	4.39.2B103	4.39.2B203	4.39.2B303	4.39.2B403	4.39.2B503	4.39.2B603
€	2.329	2.408	2.436	2.516	2.918	3.160

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

Art. 392B / 4

+3 Art. 271D
 405H*
 N° 4 serraggi contemporanei / N° 4 simultaneously clamping

Art. 392B + n° 3 Art.271D

Cod.	4.39.2B104	4.39.2B204	4.39.2B304	4.39.2B404	4.39.2B504	4.39.2B604
€	2.644	2.752	2.787	2.895	3.431	3.751

* 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)

Cod.	4.40.7E100	4.40.7E200	4.40.7E300	4.40.7E400	4.40.7E500	4.40.7E600
€	942	968	978	1.005	1.138	1.218

Art. 392C / 2

+1 Art. 407E
 N° 2 serraggi indipendenti / N° 2 independent clamping

Art. 392B + n° 1 Art. 407B

Cod.	4.39.2C102	4.39.2C202	4.39.2C302	4.39.2C402	4.39.2C502	4.39.2C602
€	2.874	2.931	2.948	3.010	3.356	3.517

Art. 392C / 3

+1 Art. 402/90
 +2 Art. 407E
 N° 3 serraggi indipendenti / N° 3 independent clamping

Art. 392B + n° 2 Art. 407B

Cod.	4.39.2C103	4.39.2C203	4.39.2C303	4.39.2C403	4.39.2C503	4.39.2C603
€	3.507	3.586	3.612	3.691	4.077	4.310

Art. 392C / 4

+1 Art. 402/90
 +2 Art. 407E
 N° 4 serraggi indipendenti / N° 4 independent clamping

Art. 392B + n° 3 Art. 407B

Cod.	4.39.2C104	4.39.2C204	4.39.2C304	4.39.2C404	4.39.2C504	4.39.2C604
€	4.412	4.519	4.554	4.657	5.169	5.477

ACCESSORI e RICAMBI

ACCESSORIES and SPARE PARTS

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

Art. 393D

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

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



Cod. 4.39.3D450

€ 1.207

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

€ 391

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

€ 452

Art. 394D

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

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



Cod. 4.39.4D450

€ 1.207

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

€ 409

Art. 396C

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



Cod. 4.39.6C000

€ 470

Art. 395D

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

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



Cod. 4.39.5D450

€ 1.327

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

€ 557

Art. 398C

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



Cod. 4.39.8C000

€ 617

ACCESSORI e RICAMBI

ACCESSORIES and SPARE PARTS

Art. 399

 Gruppo filtro riduttore più lubrificatore
 Compressed air preparation unit


Cod. 4.39.90000

€ 157

Art. 400

 Pedale bistabile
 Two positions foot pedal


Cod. 4.40.00000

€ 176

Art. 401

 Pulsantiera per 1 azionamento
 Puschbutton board for one control operation


Cod. 4.40.10000

€ 244

Art. 402

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


Cod. 4.40.20000

€ 81

Art. 402/90

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


Cod. 9.40.29000

€ 178

Art. 405H

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

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


Ø 6

Cod. 4.40.5H000

€ 10

Art. 403

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

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


Cod. 4.40.30000

€ 154

Art. 404

 Manometro 400bar
 Oil pressure gauge 400bar


Cod. 4.40.40000

€ 72

ACCESSORI e RICAMBI

ACCESSORIES and SPARE PARTS

Art. 270A

Attacco idraulico rapido femmina
 Quick hydraulic female connection



Cod. 4.27.0A000

€ 65

Art. 270B

Innesto idraulico rapido maschio
 Quick hydraulic male connection



Cod. 4.27.0B000

€ 44

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

€ 10

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

€ 38

Art. ID05

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



Cod. 9.ID.05000

€ 6

Art. 505

Pressostato 400bar
 Pressure switch 400bar



Cod. 0.50.50000

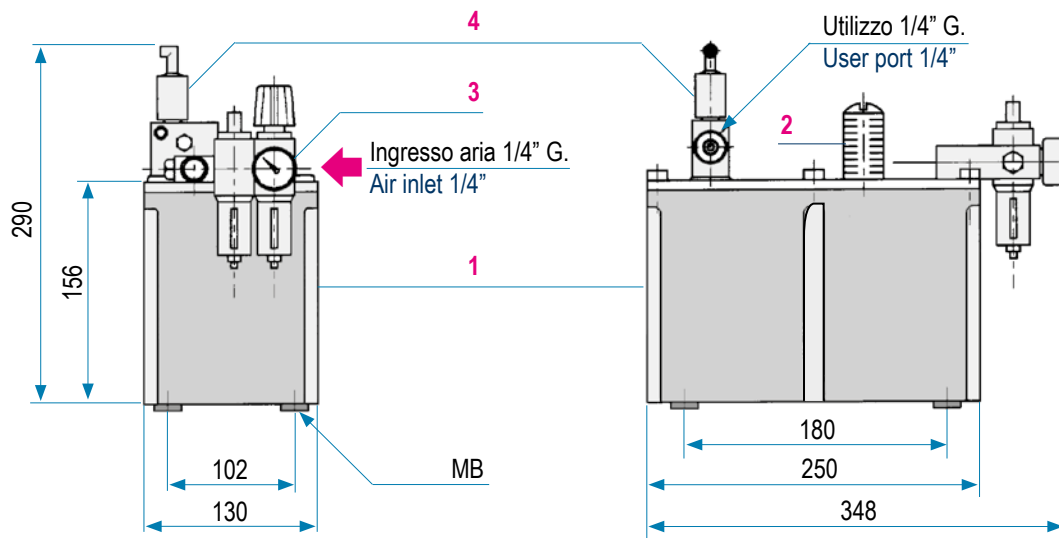
€ 204

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**

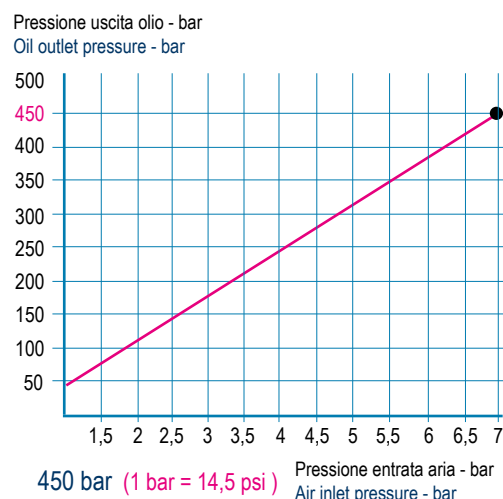
Pressione massima aria: Max permissible air pressure:	7 bar
Pressione aria consigliata: Recommended air pressure:	5,5 bar
Tipo di olio raccomandato: idraulico Recommended grade of oil: hydraulic	68 CSt
Portata Deliveries	0,9 L / 1' Litres / min
Capacità serbatoio Tank capacity	3 L
Delta massimo su pilotaggi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

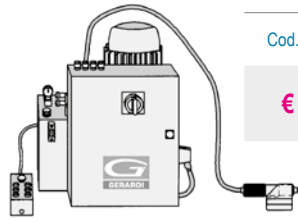
6

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**



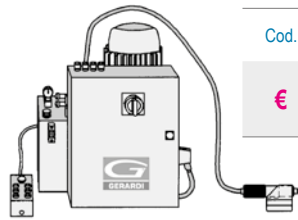
Cod.	2.26.61000	2.26.62000	2.26.63000	2.26.64000	2.26.65000	2.26.66000
€	7.237	7.249	7.258	7.293	7.505	7.564

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
€	7.821	7.833	7.842	7.878	8.113	8.206

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
€	6.812

Art. 503

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

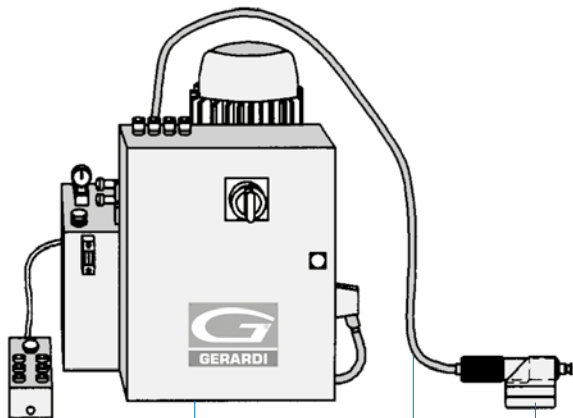
Electric motor-driven hydraulic power unit **double acting**
(Without blocking device **Art. 271**)

Cod.	2.50.30000
€	7.396

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

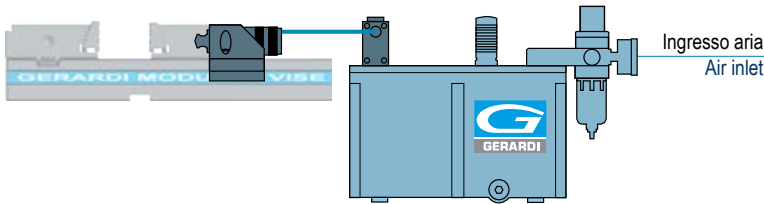
GRUPPI DI BLOCCAGGIO CON CENTRALINA OLEODINAMICA

HYDRAULIC BLOCKING DEVICE WITH MOTOR DRIVEN POWER UNIT

Tipo e caratteristiche Type and characteristics		Art. 266 - Art. 502 A effetto semplice Single-acting	Art. 267 - Art. 503 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

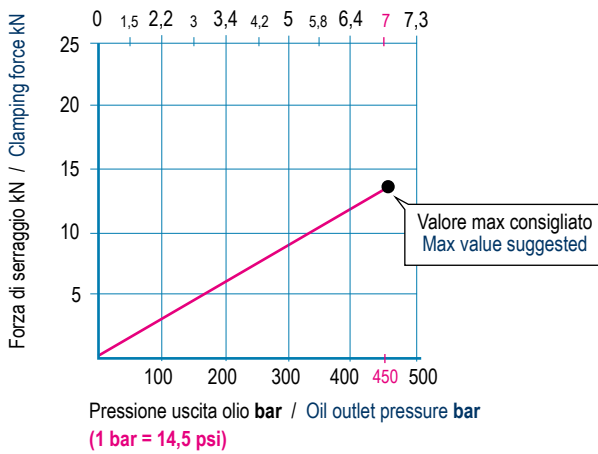
MORSE MODULARI TIPO 1

MODULAR VISES TYPE 1

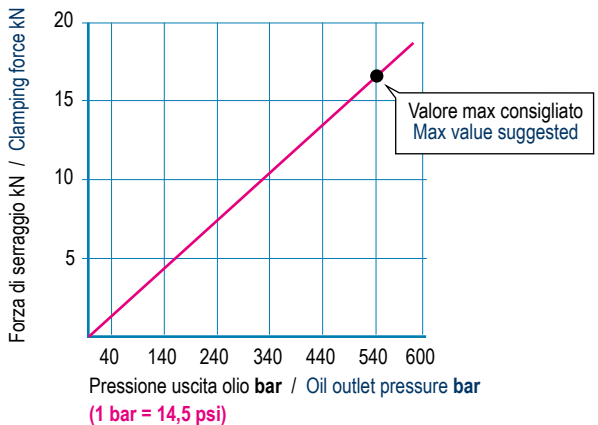
Cilindro idraulico Art. 285 - 569
 Ø interno 20 mm - Superficie efficace 3 cm²
 Hydraulic cylinder Art. 285 - 569
 Cylinder I.D. 20 mm - Effective area 3 cm²

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

Pressione entrata aria bar / Air inlet pressure bar



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



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

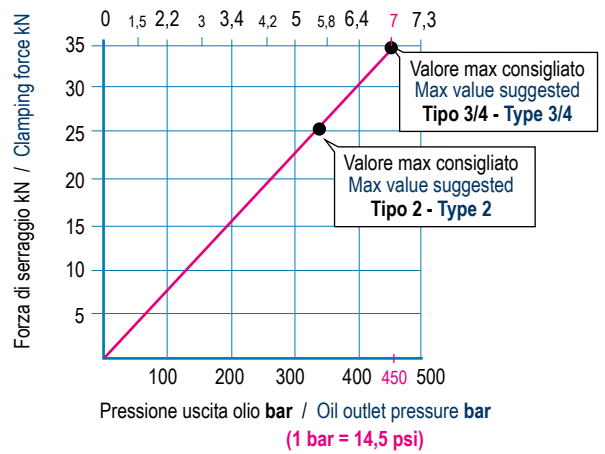
MORSE MODULARI TIPO 2-3-4

MODULAR VISES TYPE 2-3-4

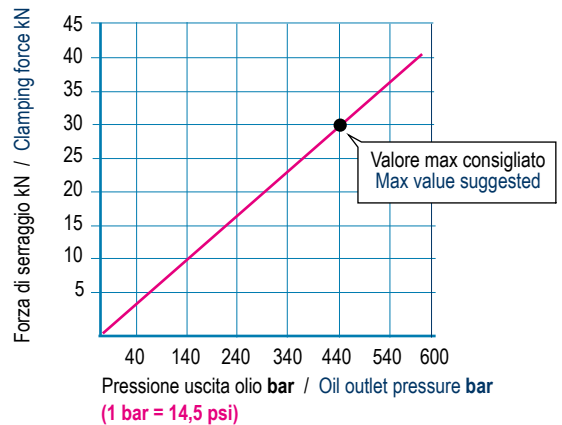
Cilindro idraulico Art. 285 - 569
 Ø interno 30 mm - Superficie efficace 7 cm²
 Hydraulic cylinder Art. 285 - 569
 Cylinder I.D. 30 mm - Effective area 7 cm²

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

Pressione entrata aria bar / Air inlet pressure bar

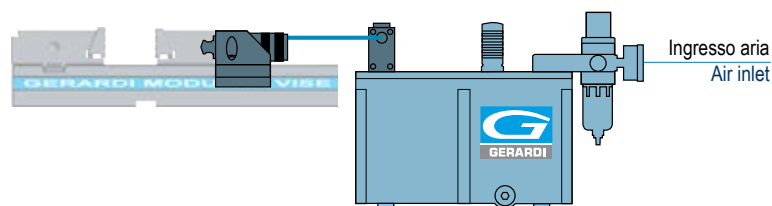


Con centralina elettroidraulica Art. 266 - 267 - 502 - 503
 With motor driven hydraulic power unit Art. 266 - 267 - 502 - 503



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

SERRAGGIO IDRAULICO HYDRAULIC CLAMPING



TRAMITE GRUPPI DI SERRAGGIO PNEUMATICI E OLEODINAMICI

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

THROUGH PNEUMO-HYDRAULIC AND HYDRAULIC CLAMPING DEVICES

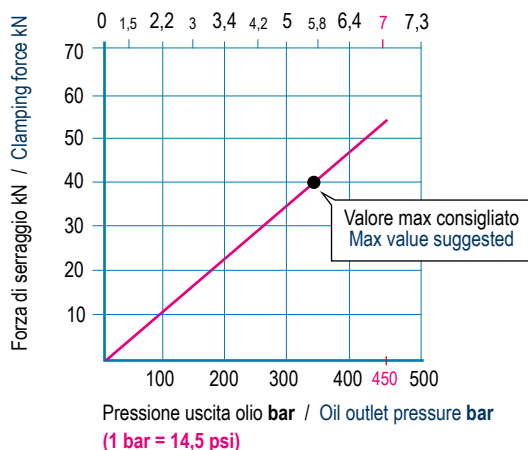
The following diagrams give the clamping force that can be obtained with each vise type (size 1 to 6) when equipped with hydraulic blocking devices, as a function of the fluid pressure (air or oil)

MORSE MODULARI TIPO 5 MODULAR VISES TYPE 5

Cilindro idraulico Art. 285 - 569
Ø interno 40 mm - Superficie efficace 12,5 cm²
Hydraulic cylinder Art. 285 - 569
Cylinder I.D. 40 mm - Effective area 12.5 cm²

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

Pressione entrata aria bar / Air inlet pressure bar

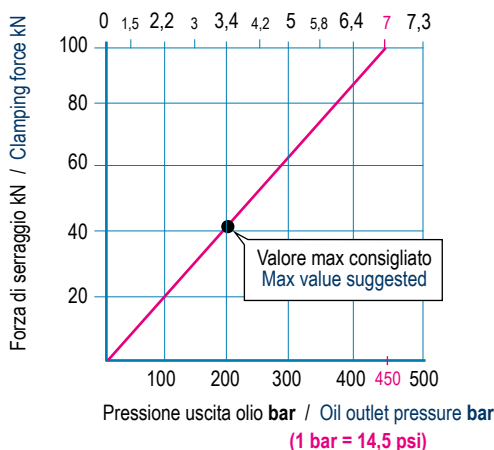


MORSE MODULARI TIPO 6 MODULAR VISES TYPE 6

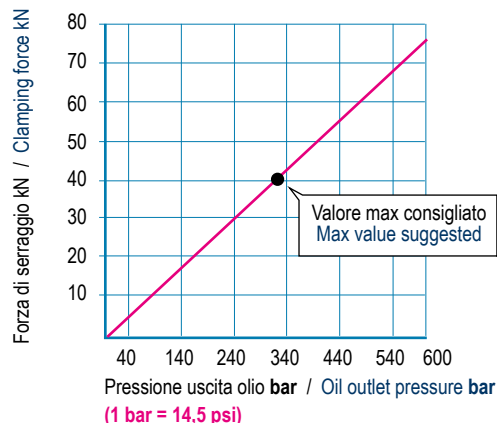
Cilindro idraulico Art. 285 - 569
Ø interno 50 mm - Superficie efficace 19,6 cm²
Hydraulic cylinder Art. 285 - 569
Cylinder I.D. 50 mm - Effective area 19.6 cm²

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

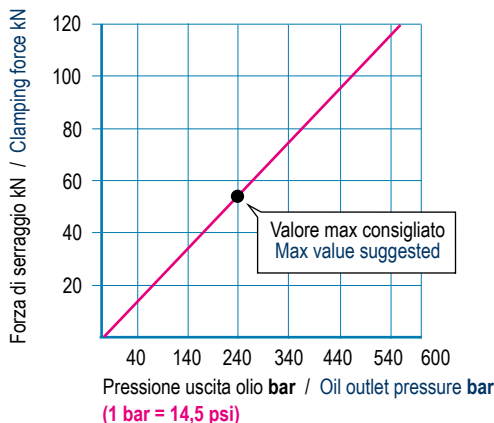
Pressione entrata aria bar / Air inlet pressure bar



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.

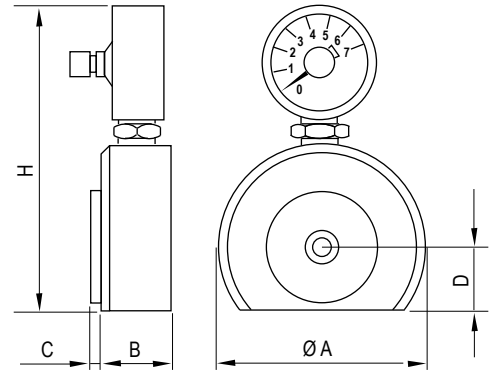
CELLE DI CARICO / LOADING CELLS

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

Art. 272

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

kN	60	-	-
Cod.	4.27.26000	-	-
€	851	-	-
Ø A	90	-	-
B	37	-	-
C	4	-	-
D	30	-	-
E	c.a. 150	-	-



Art. 272A

Indicatore di forza kN
Force indicator kN



Cod.	4.27.2A600	-	-
€	349	-	-

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

