



Parallel plates, stack type, special jaws and spindle clamping devices

STD - StandardFLEX - XL

Parti di ricambio / Spare Parts

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VALIGETTA DI CAMPIONATURA STD / StdFLEX
SAMPLE KIT CASE STD / StdFLEX

Art. 981
Valigetta di campionatura morsa Art.1
Sample kit case Art.1 vise
Cod. 0.98.10000

Art. 985
Valigetta di campionatura morsa Art.1A
Sample kit case Art.1A vise
Cod. 0.98.50000

Art. 1 - All'Interno - Inside:

Art.132	Art.133	Art.298	Art.147	Art.283	Art.376
Art.133	Art.314	Art.270	Art.212	Art.285	Art.217
Art.138	Art.271	Art.375	Art.287		

Art. 1A - All'Interno - Inside:

Art.138	Art.1212	Art.230B	Art.230C	Art.230D	Art.230E
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Art.271	Art.297	Art.298	Art.370	Art.375	Art.376

SIMBOLOGIA DATI TECNICI
TECHNICAL DATA ICONS

Parti di ricambio / Spare parts

STD / StdFLEX / XL

Un'ampia scelta di componenti ed accessori modulari!
Wide range of components and modular accessories!

USURA INESISTENTE / NO WEAR

Grazie all'accurata scelta dei materiali impiegati ed allo studio dimensionale computerizzato dei componenti, l'usura è praticamente inesistente in speciali leghe di acciaio ad alta resistenza, normalizzato, cementato e temprato con durezza 60 ± 2 HRC. Tutto ciò al fine di conferire massima rigidità, elevate prestazioni e usura inesistente. A riprova di tutto ciò assistiamo **5 ANNI DI GARANZIA** su tutto il programma morsa e organi meccanici in genere.

Thanks to the manufacturing with only the most suitable materials and to the structure of the vise components (developed using computer customized software 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.

MODULARITÀ / MODULARITY

Tutte le morsa ed accessori sono elementi componibili, intercambiabili e perfettamente allineabili fra loro e con i quali è possibile ottenere differenti soluzioni di bloccaggio. Secondo tale principio l'unico elemento che differenzia le attrezzature con identica lunghezza di presa è la base (per cui lunghezza determina la massima apertura dello stesso), mentre gli altri componenti sono identici. Mediante l'aggiunta o semplice sostituzione di alcuni particolari si può variare la tipologia di bloccaggio secondo le proprie esigenze utilizzando la stessa attrezzatura acquistata in un primo momento (bloccaggi singoli, con base girante, doppi, verticali, di pezzi piani, tondi, piatti e grezzi, manuali, idraulici o pneumatici).

All vises and accessories are modular and components of all our vises will interchange with perfect alignment to provide different workholding solutions. With this basic principle the only difference between fixtures with the same width of clamping is the base (whose length determines the maximum opening of the vise), while the rest of components have same dimensions. Through the simple addition or substitution of some particulars you can change the type of clamping as you needs require using the same fixture purchased before (single clamping, swivel base, double, vertical, smooth or round or flat or rough workpieces, manual, hydraulic or pneumatic).

DESIGN COMPATTO / SPACE SAVING DESIGN

La semplicità nonché la compattezza costruttiva consentono un'apertura notevole rispetto all'ingombro totale dell'attrezzatura. Inoltre lo stesso peso (solo 25 kg per una morsa da 150 mm di lunghezza gomitolo) è tale da consentire un facile trasferimento da una macchina all'altra.

The simple saving design and solid construction allow a maximum clamping ratio in total overall dimension of the vise. Furthermore the weight (only 25 kg for a 150 mm jaw width vise) allows a simple moving from one machine to another.

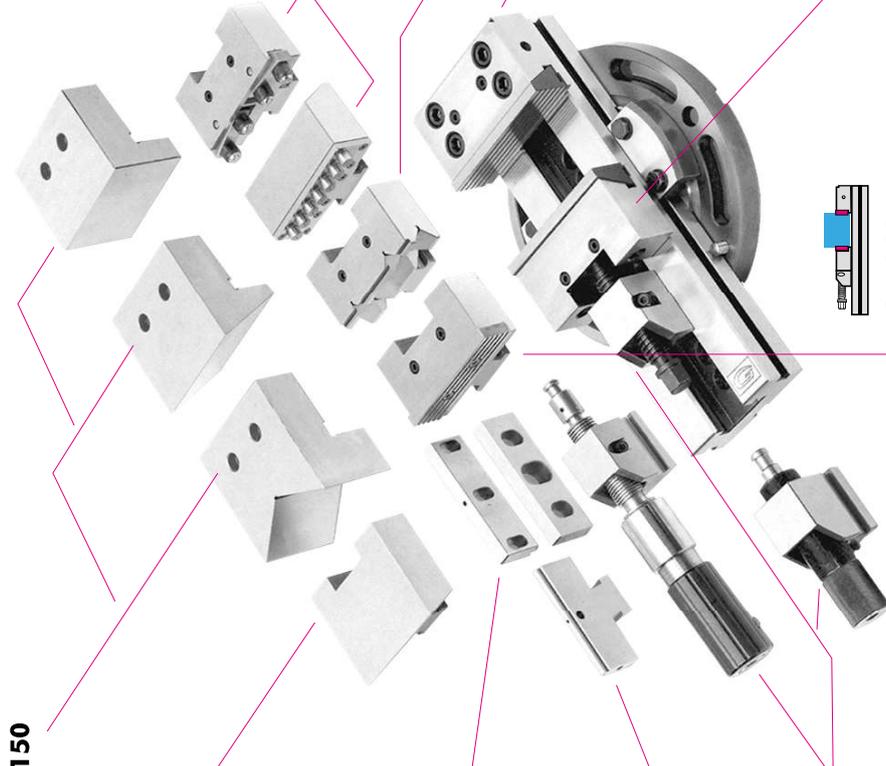
SERRAGGI RAPIDI / QUICK CLAMPING

Grazie allo scorrimento del gruppo di serraggio nella guida della base (a cremagliera) fino in prossimità del pezzo da lavorare deve si adattare automaticamente alla richia più vicina. L'operazione di serraggio si conclude agendo sulla vite di bloccaggio. Oltre a quello manuale meccanico, sono disponibili 4 ulteriori sistemi di serraggio intercambiabili e indipendenti: 1 - Idraulici / 2 - Pneumatici / 3 - Idraulici manuali / 4 - Idraulici elettrici. L'operazione è in termini di secondi.

Thanks to the clamping device sliding in the vise base slide (compact rack type) till the proximity of the workpiece. The clamping is completed with the main screw. Besides the manual mechanic system, 4 further interchangeable and independent clamping systems are available: 1 - Hydraulic / 2 - Pneumatic / 3 - Manual hydraulic / 4 - Electrical hydraulic. The change needs only few seconds.

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 tra i più ampi e completi al 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 sta proprio nella modularità del sistema che consente (con l'aggiunta di alcuni componenti) una più ampia gamma di impieghi.

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.



Art.131 / 138 / 150

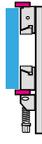
Genasce Sovrapponibili
 Stack type jaws



Art.210

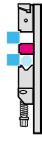
Genasce mobili guidate monoblocco
 lecco per pezzi tondi

Solid guided movable jaws for round workpieces



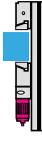
Art.132 / 133

Prolunga per genasce mobili e fisse
 Extension for movable and fixed jaws



Art.212

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



Art.257 / 258 / 271

Gruppi di serraggio
 Spindle clamping devices



Parallele, genasce sovrapponibili, speciali e gruppi di serraggio intercambiabili

Parallel plates, stack type & special jaws and interchangeable clamping devices



Art.190 / 188

Genasce mobili guidate monoblocco
 Solid guided movable jaws



Art.217

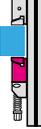
Genasce mobili guidate monoblocco prismatiche (per serraggio pezzi piatti e tondi)
 Solid guided movable prismatic jaws (for plates & round workpieces clamping)



Art.120

Le genasce fisse monoblocco consentono, una volta ruotate di 180°, il perfetto accoppiamento al gradino della genasce prismatiche mobile (Art. 217) ordinabile separatamente.

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



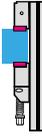
Art.127

Genasce 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

Art.246

Genasce mobili guidate monoblocco con piastre piane
 Solid guided movable jaw with straight plates

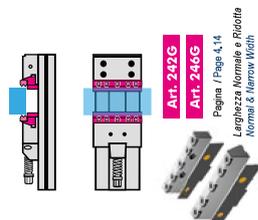


Parti di ricambio / Spare parts

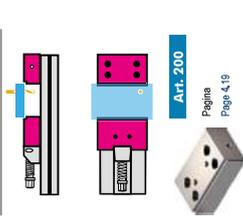
Standard / StdFLEX / XL

Piastre ganasce intercambiabili manualmente

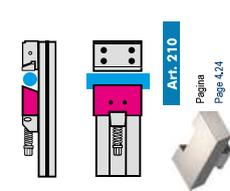
Pull down jaws plates interchangeable by hand



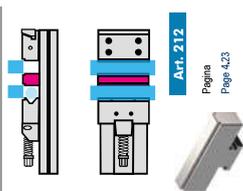
Art. 242G
Art. 246G
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Larghezza Normale e Ridotta
Normal & narrow width



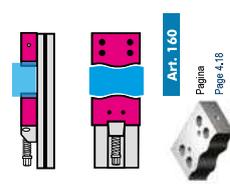
Art. 200
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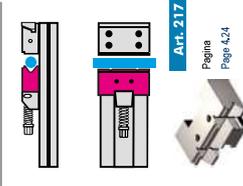
Art. 210
Pagina / Page 4,24



Art. 212
Pagina / Page 4,23



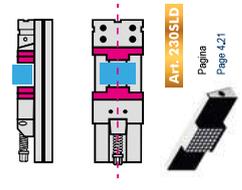
Art. 160
Pagina / Page 4,18



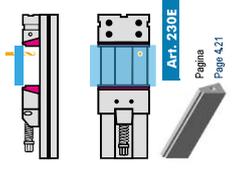
Art. 217
Pagina / Page 4,24

PIASTRE GANASCE COMPATIBILI SOLO CON MORSE STDFLEX

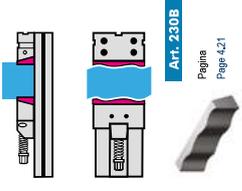
JAW PLATES COMPATIBLE ONLY WITH STDFLEX VISES



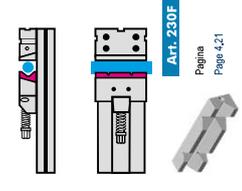
Art. 2305LD
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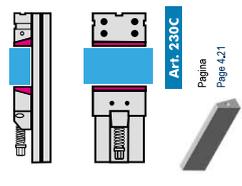
Art. 230E
Pagina / Page 4,21



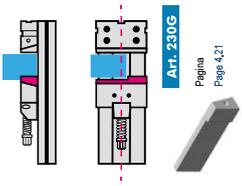
Art. 230B
Pagina / Page 4,21



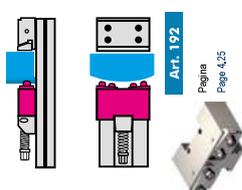
Art. 230F
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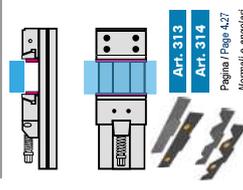
Art. 230C
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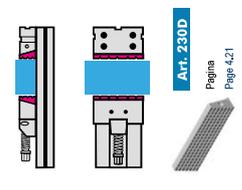
Art. 230G
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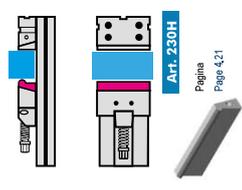
Art. 192
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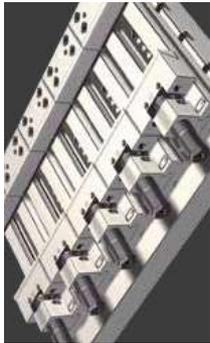
Art. 313
Art. 314
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Normal e angolari
Normal & angular



Art. 230D
Pagina / Page 4,21



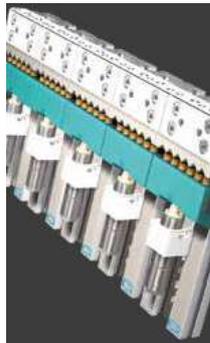
Art. 230H
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Serraggi idraulici
Hydraulic clamping

Morse Modulari di Precisione accoppiabili ed allineabili per serraggi per serraggi multipli idraulici

Precision Modular vises matchable for gang operations and hydraulic clamping



Serraggi multipli
Multiple clamping

Morse Modulari di Precisione accoppiabili ed allineabili per serraggi multipli idraulici con ganasce speciali oleodinamiche interfacciate a piastre ganasce con inserti prismatici

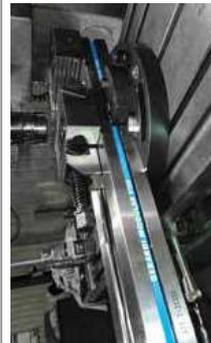
Matchable and alignable precision modular vises for multiple hydraulic clamping through special hydraulic jaws interfaced to prismatic inserts jaw plates.



Morse StandardMatic
StandardMatic vises

Morse StandardMatic montate in serie su centro di lavoro verticale

StandardMatic vises series mounted on vertical machining centres



Art.2
Art. 2

Morse Standard Art.1 montate con base girevole graduata su centro di lavoro verticale, per una maggiore versatilità su 360°

Standard vise Art.1 mounted with graduated swivel base on vertical machining centre for a greatest versatility 360°



Ganasce con inserti Grip
Insert Grip jaw plate

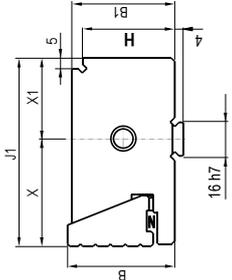
Morsa Standard con piastre ganasce a gradino con inserti Grip per un serraggio più efficace

Standard vise equipped with insert grip step jaw plate for more effective workpiece clamping

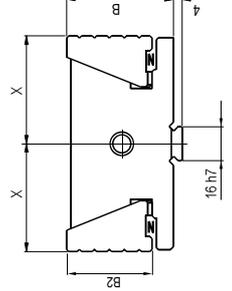
GANASCE STANDARD / STANDARD JAWS

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 120 W1 - W3 Ganascia fissa. Larghezza normale (W) - (W3) Fixed jaw. Normal width (W) - (W3)	Cod. 2.12.01000	2.12.02000	2.12.03000	2.12.04000	2.12.05000	2.12.06000
Art. 121 W2 - W1 Ganascia fissa. Larghezza ridotta rettificata (W2) - (W1) Fixed jaw. Narrow width ground (W2) - (W1)	Cod. 2.12.11000	2.12.12000	2.12.13000	2.12.14000	2.12.15000	2.12.16000
Art. 123 W1 - W3 Ganascia fissa doppia. Larghezza normale (W) - (W3) Double fixed jaw. Normal width (W) - (W3)	Cod. 2.12.31000	2.12.32000	2.12.33000	2.12.34000	2.12.35000	2.12.36000
Art. 124 W2 - W1 Ganascia fissa doppia. Larghezza ridotta rettificata (W2) - (W1) Double fixed jaw. Narrow width ground (W2) - (W1)	Cod. 2.12.41000	2.12.42000	2.12.43000	2.12.44000	2.12.45000	2.12.46000
Art. 127 W - W3 Ganascia mobile monoblocco guidata. Larghezza normale (W) - (W3) Guided movable solid jaw. Normal width (W) - (W3)	Cod. 2.12.71000	2.12.72000	2.12.73000	2.12.74000	2.12.75000	2.12.76000
Art. 129 W2 - W1 Ganascia mobile monoblocco guidata. Larghezza ridotta (W2) - (W1) Guided movable solid jaw. Narrow width (W2) - (W1)	Cod. 2.12.91000	2.12.92000	2.12.93000	2.12.94000	2.12.95000	2.12.96000
Art. 126 W - W3 Ganascia mobile oscillante. Larghezza normale (W) - (W3) Floating movable jaw. Normal width (W) - (W3)	Cod. 2.12.61000	2.12.62000	2.12.63000	2.12.64000	2.12.65000	2.12.66000
Art. 128 W2 - W1 Ganascia mobile oscillante. Larghezza ridotta (W2) - (W1) Floating movable jaw. Narrow width (W2) - (W1)	Cod. 2.12.81000	2.12.82000	2.12.83000	2.12.84000	2.12.85000	2.12.86000

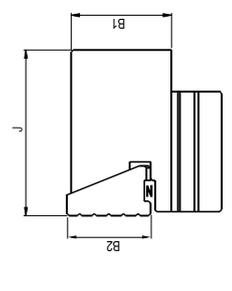
Art. 120



Art. 123



Art. 127



Tipo / Type	1	2	3	4	5	6
W = Jaw plate	100	125	150	175	200	300
W1 = Jaw body	75	95	125	145	170	195
W2 = Jaw plate	74	94	124	144	169	194
W3 = Jaw body	96	121	146	171	196	296
Y	21	20	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	100	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	88,4	96,9	113,4	120,1

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

RICAMBI PER GANASCE STANDARD / SPARES FOR STANDARD JAWS

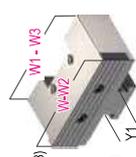
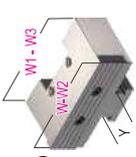
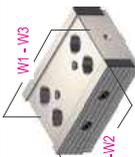
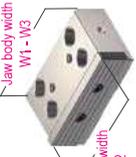
Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6	
PIASTRE TEMPRATE RIGATE O QUADRETTATE HARDENED GROOVED OR SERRATED JAW PLATES Standard Archiestra / On request (EXTRA)	€ cad / each	59	64	76	93	130	174
Per qualsiasi piastra ganascia speciale, raddoppiare il prezzo / For special trafor made jaw plate double the price							
Art. 230 (W) Per ganascia fissa e mobile - Art. 120, 126, 127 - Larghezza normale (W) For fixed and movable jaw - Art. 120, 126, 127 - Normal width (W)	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	60	76	90	
C1	62	80	90	116	138	164	
Cod. Art. 230	1,65.10.000	1,65.20.000	1,65.30.000	1,65.40.000	1,65.50.000	1,65.60.000	
Cod. Art. 230S	4,23.05.100	4,23.05.200	4,23.05.300	4,23.05.400	4,23.05.500	4,23.05.600	
Art. 231 (W) Per ganascia fissa e mobile - Art. 121, 128, 129 - Larghezza ridotta (W2) For fixed and movable jaw - Art. 121, 128, 129 - Narrow width (W2)	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	60	76	90	
C1	62	80	90	116	138	164	
Cod. Art. 231	1,65.11.000	1,65.21.000	1,65.31.000	1,65.41.000	1,65.51.000	1,65.61.000	
Cod. Art. 231S	4,23.15.100	4,23.15.200	4,23.15.300	4,23.15.400	4,23.15.500	4,23.15.600	
Art. 248 (W) Per ganascia fissa doppia Art. 123 - Larghezza normale (W) For double fixed jaw Art. 123 - Normal width (W)	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	60	76	90	
C1	62	80	90	116	138	164	
Cod. Art. 248	1,65.14.000	1,65.24.000	1,65.34.000	1,65.44.000	1,65.54.000	1,65.64.000	
Cod. Art. 248S	4,24.05.100	4,24.05.200	4,24.05.300	4,24.05.400	4,24.05.500	4,24.05.600	
Art. 249 (W2) Per ganascia fissa doppia Art. 124 - Larghezza ridotta (W2) For double fixed jaw Art. 124 - Narrow width (W2)	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	60	76	90	
C1	62	80	90	116	138	164	
Cod. Art. 249	1,65.15.000	1,65.25.000	1,65.35.000	1,65.45.000	1,65.55.000	1,65.65.000	
Cod. Art. 249S	4,24.05.100	4,24.05.200	4,24.05.300	4,24.05.400	4,24.05.500	4,24.05.600	
PIASTRE LISCE TEMPRATE HARDENED SMOOTH JAW PLATES Fornibili in richiesta già montate, a metà prezzo se in aggiunta all'acquisto della morsa Available on request already mounted, at half price if purchased extra with the vise	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	60	76	90	
C1	62	80	90	116	138	164	
Cod. Art. 232	1,65.10.100	1,65.20.100	1,65.30.100	1,65.40.100	1,65.50.100	1,65.60.100	
Cod. Art. 233	1,65.11.100	1,65.21.100	1,65.31.100	1,65.41.100	1,65.51.100	1,65.61.100	
Cod. Art. 250	1,65.14.100	1,65.24.100	1,65.34.100	1,65.44.100	1,65.54.100	1,65.64.100	
Cod. Art. 251	1,65.15.100	1,65.25.100	1,65.35.100	1,65.45.100	1,65.55.100	1,65.65.100	
PIASTRE IN ACCIUMI LAVORABILI (SOFT) MACHINEABLE STEEL JAW PLATES (SOFT) Fornibili in richiesta già montate, a metà prezzo se in aggiunta all'acquisto della morsa Available on request already mounted, at half price if purchased extra with the vise	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	60	76	90	
C1	62	80	90	116	138	164	
Cod. Art. 234	1,65.10.200	1,65.20.200	1,65.30.200	1,65.40.200	1,65.50.200	1,65.60.200	
Cod. Art. 235	1,65.11.200	1,65.21.200	1,65.31.200	1,65.41.200	1,65.51.200	1,65.61.200	
Cod. Art. 252	1,65.14.200	1,65.24.200	1,65.34.200	1,65.44.200	1,65.54.200	1,65.64.200	
Cod. Art. 253	1,65.15.200	1,65.25.200	1,65.35.200	1,65.45.200	1,65.55.200	1,65.65.200	

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

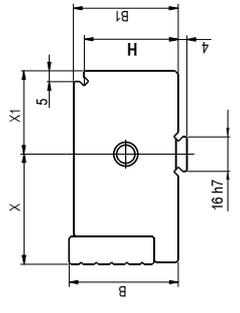
GANASCHE CON PIASTRE PIANE / STRAIGHT PLATE JAWS

Tipo (grandezza) morsa / Vise type (size)

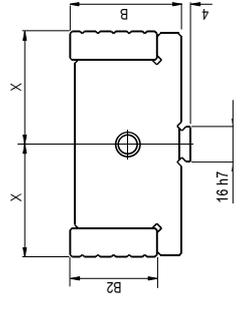
	1	2	3	4	5	6
Art. 140 W - W3 Ganascia fissa. Larghezza normale (W) - (W3) Fixed jaw. Normal width (W) - (W3)	Cod. 2,14,01000	2,14,02000	2,14,03000	2,14,04000	2,14,05000	2,14,06000
Art. 141 W2 - W1 Ganascia fissa. Larghezza ridotta rettificata (W2) - (W1) Fixed jaw. Narrow width ground (W2) - (W1)	Cod. 2,14,11000	2,14,12000	2,14,13000	2,14,14000	2,14,15000	2,14,16000
Art. 143 W - W3 Ganascia fissa doppia. Larghezza normale (W) - (W3) Double fixed jaw. Normal width (W) - (W3)	Cod. 2,14,31000	2,14,32000	2,14,33000	2,14,34000	2,14,35000	2,14,36000
Art. 144 W2 - W1 Ganascia fissa doppia. Larghezza ridotta rettificata (W2) - (W1) Double fixed jaw. Narrow width ground (W2) - (W1)	Cod. 2,14,41000	2,14,42000	2,14,43000	2,14,44000	2,14,45000	2,14,46000
Art. 146 W - W3 Ganascia mobile monoblocco guidata. Larghezza normale (W) - (W3) Guided movable solid jaw. Normal width (W) - (W3)	Cod. 2,14,61000	2,14,62000	2,14,63000	2,14,64000	2,14,65000	2,14,66000
Art. 147 W2 - W1 Ganascia mobile monoblocco guidata. Larghezza ridotta (W2) - (W1) Guided movable solid jaw. Narrow width (W2) - (W1)	Cod. 2,14,71000	2,14,72000	2,14,73000	2,14,74000	2,14,75000	2,14,76000
Art. 148 W - W3 Ganascia mobile monoblocco oscillante. Larghezza normale (W) - (W3) Floating movable solid jaw. Normal width (W) - (W3)	Cod. 2,14,81000	2,14,82000	2,14,83000	2,14,84000	2,14,85000	2,14,86000
Art. 149 W2 - W1 Ganascia mobile monoblocco oscillante. Larghezza ridotta (W2) - (W1) Floating movable solid jaw. Narrow width (W2) - (W1)	Cod. 2,14,91000	2,14,92000	2,14,93000	2,14,94000	2,14,95000	2,14,96000



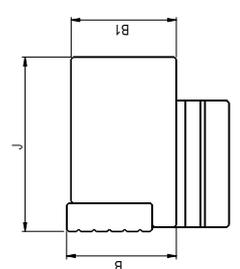
Art. 140



Art. 143



Art. 146



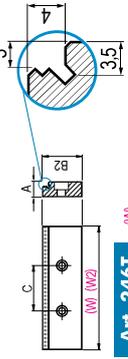
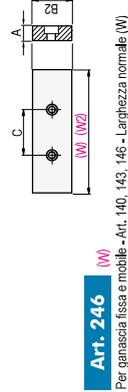
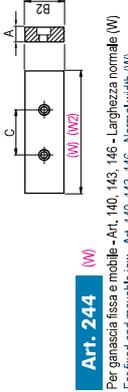
Tipo / Type	1	2	3	4	5	6
W = Jaw plate	100	125	150	175	200	300
W1 = Jaw body	75	95	125	145	170	195
W2 = Jaw plate	74	94	124	144	169	194
W3 = Jaw body	96	121	146	171	196	296
Y	21	21	41	51	61	71
Y1	20	27	40	50	60	70
B	30	40	50	60	65	80
B1	28	38	48	58	63	78
B2	24,5	32	42	48	48	63
* H	23	33	43	53	53	68
J	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 GANASCHE CON PIASTRE PIANE / SPARES FOR STRAIGHT JAW PLATES

Tipo (grandezza) morsa / Vise type (size)

	1	2	3	4	5	6
PIASTRE PIANE TEMPERATE, RICATE O QUADRETTATE HARDENED GROOVED OR SERRATED STRAIGHT JAW PLATES Dotazione normale delle ganasce e delle morse complete Standard equipment on complete jaws and vises						
Standard						
Art. 242 (W) Per ganascia fissa e mobile - Art. 140, 143, 146 - Larghezza normale (W) For fixed and movable jaw - Art. 140, 143, 146 - Normal width (W)	100	125	150	175	200	300
Art. 242S (W) For fixed and movable jaw - Art. 141, 144, 147 - Narrow width (W)	74	94	124	144	169	194
Art. 243 (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)	12	12	13	13	18	18
Art. 243S (W2) For fixed and movable jaw - Art. 141, 144, 147 - Narrow width (W2)	24,5	32	40	43	48	56
PIASTRE PIANE LISCE TEMPERATE HARDENED SMOOTH STRAIGHT JAW PLATES Fornibili a richiesta già montate, a metà prezzo se in aggiunta all'acquisto della morsa Available on request already mounted, at half price if purchased extra with the vise						
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)	100	125	150	175	200	300
Art. 244S (W) For fixed and movable jaw - Art. 141, 144, 147 - Narrow width (W)	74	94	124	144	169	194
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)	12	12	13	13	18	18
Art. 245S (W2) For fixed and movable jaw - Art. 141, 144, 147 - Narrow width (W2)	24,5	32	40	43	48	56
PIASTRE PIANE IN ACCIAIO LAVORABILE (DOLCE) MACHINEABLE STEEL STRAIGHT JAW PLATES (SOFT IRC) Fornibili a richiesta già montate, a metà prezzo se in aggiunta all'acquisto della morsa Available on request already mounted, at half price if purchased extra with the vise						
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)	100	125	150	175	200	300
Art. 246S (W) For fixed and movable jaw - Art. 141, 144, 147 - Narrow width (W)	74	94	124	144	169	194
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)	12	12	13	13	18	18
Art. 247S (W2) For fixed and movable jaw - Art. 141, 144, 147 - Narrow width (W2)	24,5	32	40	43	48	56
PIASTRE PIANE TEMPERATE GRIP HARDENED STRAIGHT JAW PLATES GRIP Fornibili a richiesta già montate, a metà prezzo se in aggiunta all'acquisto della morsa Available on request already mounted, at half price if purchased extra with the vise						
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)	100	125	150	175	200	300
Art. 246TS (W) For fixed and movable jaw - Art. 141, 144, 147 - Narrow width (W)	74	94	124	144	169	194
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)	12	12	13	13	18	18
Art. 247TS (W2) For fixed and movable jaw - Art. 141, 144, 147 - Narrow width (W2)	24,5	32	40	43	48	56

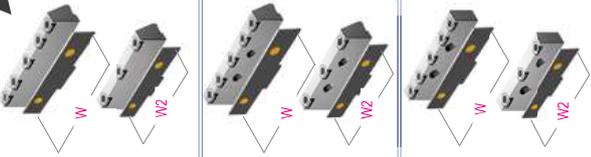


PIASTRE GANASCHE "GRIP" JAW PLATES
MINOR SUPERFICIE DI CONTATTO + PRESSIONE DI SERRAGGIO
LESS SURFACE CONTACT + CLAMPING PRESSURE



PIASTRE GANASCE CON INSERTI GRIP E PARALLELA MAGNETICA

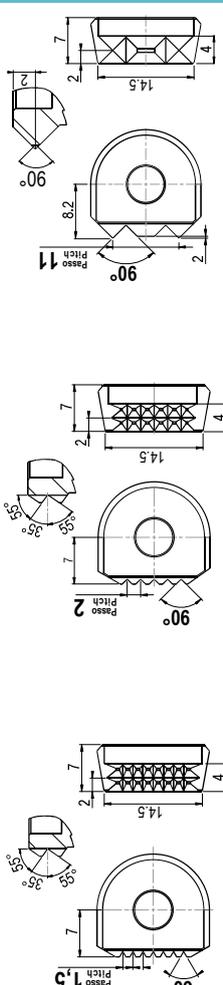
Tipo (grandezza) morsea / Vise type (size)		1	2	3	4	5	6
Art. 242G W	Piastra Ganasca con Inserti GRIP. Larghezza normale (W)	Cod.	1,24,2G100	1,24,2G300	1,24,2G400	1,24,2G500	1,24,2G600
	Jaw plate with GRIP insert. Normal width (W)						
Art. 243G W2	Piastra Ganasca con Inserti GRIP. Larghezza ridotta rettificata (W1)	Cod.	1,24,3G100	1,24,3G300	1,24,3G400	1,24,3G500	1,24,3G600
	Jaw plate with GRIP insert. Narrow width ground (W1)						
Art. 248G W	Piastra Ganasca con Inserti GRIP per ganasce fissa doppia. Larghezza normale (W)	Cod.	1,24,8G100	1,24,8G200	1,24,8G300	1,24,8G400	1,24,8G500
	Jaw plate with GRIP insert for double fixed jaw. Normal width (W)						
Art. 249G W2	Piastra Ganasca con Inserti GRIP per ganasce fissa doppia. Larghezza ridotta rettificata (W1)	Cod.	1,24,9G100	1,24,9G200	1,24,9G300	1,24,9G400	1,24,9G500
	Jaw plate with GRIP insert for double fixed jaw. Narrow width ground (W1)						
Art. 246G W	Piastra Piana con Inserti GRIP. Larghezza normale (W)	Cod.	1,24,6G100	1,24,6G200	1,24,6G300	1,24,6G400	1,24,6G500
	Straight Plate with GRIP inserts. Normal width (W)						
Art. 247G W2	Piastra Piana con Inserti GRIP. Larghezza ridotta rettificata (W1)	Cod.	1,24,7G100	1,24,7G200	1,24,7G300	1,24,7G400	1,24,7G500
	Straight Plate with GRIP inserts. Narrow width ground (W1)						

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

INSERT GRIP JAW PLATES WITH MAGNETIC PARALLEL

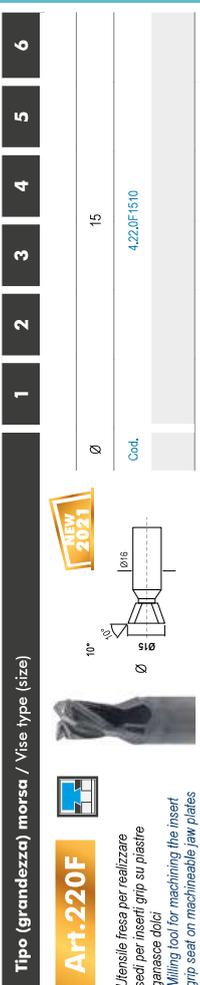
Tipo (grandezza) morsea / Vise type (size)		1	2	3	4	5	6
Art. 242G	Con parallela magnetica e Inserti GRIP. With magnetic parallel and GRIP inserts	Cod.	4,22,01000 / G01				
	Per materiali di durezza normale. For standard workpieces hardness clamping						
Art. 243G	Con parallela magnetica e Inserti GRIP. With magnetic parallel and GRIP inserts	Cod.	4,22,01000 / G02				
	Per materiali di notevole durezza. For hardened workpieces clamping						
Art. 248G	Per ganasce fissa doppio. For double fixed jaw	Cod.	4,22,01000 / G11				
	Con parallela magnetica e Inserti GRIP. With magnetic parallel and GRIP inserts						
Art. 249G	Per ganasce fissa doppio. For double fixed jaw	Cod.	4,22,01000 / G12				
	Con parallela magnetica e Inserti GRIP. With magnetic parallel and GRIP inserts						

Inserti Grip - Grip Inserts

Tipo / Type		1	2	3	4	5	6
Art. 220 G01	Per materiali di durezza normale. For standard workpieces hardness clamping	3 pcs each	3 pcs each	3 pcs each	3 pcs each	3 pcs each	3 pcs each
	Per materiali di notevole durezza. For hardened workpieces clamping	5 pcs each	5 pcs each	5 pcs each	5 pcs each	5 pcs each	5 pcs each
Art. 220 G02	Per materiali di durezza normale. For standard workpieces hardness clamping	3 pcs each	3 pcs each	3 pcs each	3 pcs each	3 pcs each	3 pcs each
	Per materiali di notevole durezza. For hardened workpieces clamping	5 pcs each	5 pcs each	5 pcs each	5 pcs each	5 pcs each	5 pcs each
Art. 220 G11	Per materiali teneri. For soft material clamping	9 pcs each	7 pcs each	7 pcs each	7 pcs each	7 pcs each	7 pcs each
	Per materiali teneri. For soft material clamping	7 pcs each	7 pcs each	7 pcs each	7 pcs each	7 pcs each	7 pcs each


NEW

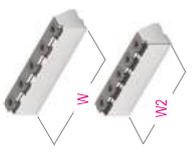
Tipo (grandezza) morsea / Vise type (size)		1	2	3	4	5	6
Art. 220F	Utensile fresa per realizzare sedi per inserti grip su piastre ganasce dolci. Milling tool for machining the insert grip seat on machineable jaw plates	15					


NEW

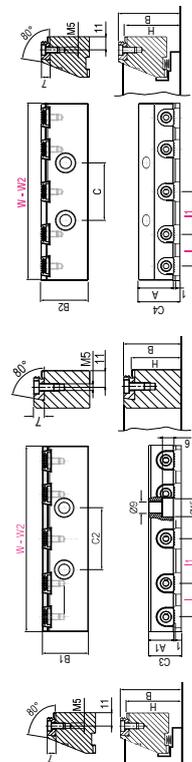
Tipo / Type		1	2	3	4	5	6
Art. 242G W	Dotazione Standard - Standard Equipment	100	125	150	175	200	300
	1 pc. Art.313S (parallela magnetica SINGOLA) - 1 pc. Art.313S (SINGLE magnetic parallel)	74	94	124	144	169	194
Art. 243G W2	Dotazione Standard - Standard Equipment	-	-	31,5	35	27	33
	1 pc. Art.313S (parallela magnetica SINGOLA) - 1 pc. Art.313S (SINGLE magnetic parallel)	35	45	31,5	35	27	33
Art. 248G W	Dotazione Standard - Standard Equipment	20	32	50	50	76	90
	1 pc. Art.313S (parallela magnetica SINGOLA) - 1 pc. Art.313S (SINGLE magnetic parallel)	62	80	90	116	138	184
Art. 249G W2	Dotazione Standard - Standard Equipment	25	32	50	50	76	90
	1 pc. Art.313S (parallela magnetica SINGOLA) - 1 pc. Art.313S (SINGLE magnetic parallel)	30	40	50	60	65	80
Art. 246G W	Dotazione Standard - Standard Equipment	24,5	32	39	43	48	55
	1 pc. Art.313S (parallela magnetica SINGOLA) - 1 pc. Art.313S (SINGLE magnetic parallel)	24,5	32	40	43	48	55
Art. 247G W2	Dotazione Standard - Standard Equipment	25	27	29	32	34	43
	1 pc. Art.313S (parallela magnetica SINGOLA) - 1 pc. Art.313S (SINGLE magnetic parallel)	20	20	20	20	20	20
Art. 242G W	Dotazione Standard - Standard Equipment	25	35	45	55	60	75
	1 pc. Art.313S (parallela magnetica SINGOLA) - 1 pc. Art.313S (SINGLE magnetic parallel)	25	35	45	55	60	75

PIASTRE GANASCE A GRADINO INTEGRALE CON INSERTI GRIP

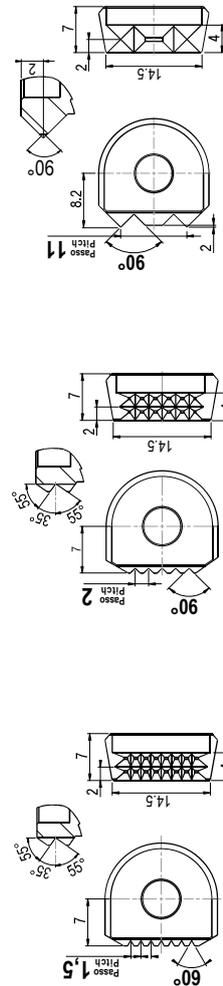
		Tipo (grandezza) morso / Vise type (size)					
		1	2	3	4	5	6
Art. 242K W	Piastra Ganasce a gradino con Inserti GRIP.						
	Larghezza normale (W)						
Art. 243K W2	Piastra Ganasce a gradino con Inserti GRIP.						
	Larghezza ridotta rettificata (W1)						
Art. 248K W	Piastra Ganasce a gradino con Inserti GRIP						
	per ganasce fissa doppia. Larghezza normale (W)						
Art. 249K W2	Piastra Ganasce a gradino con Inserti GRIP						
	per ganasce fissa doppia. Larghezza ridotta rettificata (W1)						
Art. 246K W	Piastra Piana con Inserti GRIP. Larghezza normale (W)						
	Straight Plate with GRIP inserts. Normal width (W)						
Art. 247K W2	Piastra Piana con Inserti GRIP. Larghezza ridotta rettificata (W1)						
	Straight Plate with GRIP inserts. Narrow width ground (W1)						



		Tipo (grandezza) morso / Vise type (size)					
		1	2	3	4	5	6
Art. 242K W	Piastra Ganasce a gradino con Inserti GRIP.	100	125	150	175	200	300
	Larghezza normale (W)	74	94	124	144	169	194
Art. 247K W2	Piastra Ganasce a gradino con Inserti GRIP.	-	-	31.5	35	27	33
	Larghezza ridotta rettificata (W1)	35	45	31.5	35	27	33
Art. 248K W	Piastra Ganasce a gradino con Inserti GRIP.	20	32	50	76	90	184
	Larghezza normale (W)	62	80	90	116	138	200
Art. 249K W2	Piastra Ganasce a gradino con Inserti GRIP.	25	32	50	76	90	184
	Larghezza ridotta rettificata (W1)	25	25	25	25	25	25
Art. 246K W	Piastra Piana con Inserti GRIP. Larghezza normale (W)	30	32	34	37	39	48
	Straight Plate with GRIP inserts. Normal width (W)	30	40	50	60	65	80
Art. 247K W2	Piastra Piana con Inserti GRIP. Larghezza ridotta rettificata (W1)	24.5	32	39	43	48	56
	Straight Plate with GRIP inserts. Narrow width ground (W1)	24.5	32	40	43	48	63
Art. 242K W	Piastra Piana con Inserti GRIP. Larghezza normale (W)	25	27	29	32	34	43
	Larghezza normale (W)	20	20	20	20	20	20
Art. 248K W	Piastra Piana con Inserti GRIP. Larghezza normale (W)	25	35	45	55	60	75
	Larghezza normale (W)	25	20	20	20	20	20


INTEGRAL INSERT GRIP STEP JAW PLATES

		Tipo (grandezza) morso / Vise type (size)					
		1	2	3	4	5	6
Art. 242K	A gradino con Inserti GRIP						
	With step and GRIP inserts						
Art. 248K	Per ganasce fissa doppia						
	For double fixed jaw						
Art. 249K	Larghezza ridotta						
	Narrow width						
Art. 247K	Larghezza ridotta						
	Narrow width						
Art. 246K	Larghezza normale						
	Normal width						
Art. 243K	Larghezza ridotta						
	Narrow width						
Art. 244K	Larghezza normale						
	Normal width						
Art. 220 G01	Per materiali di durezza normale						
	For standard workpieces hardness clamping						
Art. 220 G02	Per materiali di notevole durezza.						
	For hardened workpieces hardness clamping						
Art. 220 G11	Per materiali teneri						
	For soft material clamping						



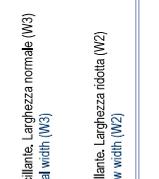
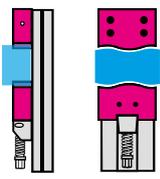
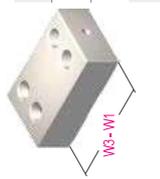
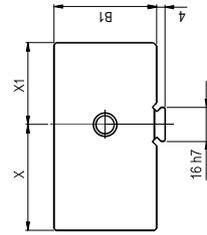
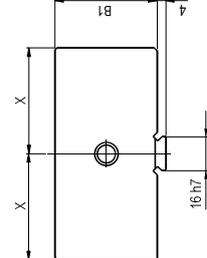
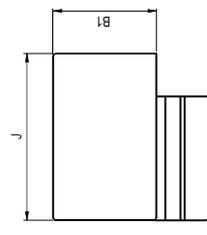
		Tipo (grandezza) morso / Vise type (size)					
		1	2	3	4	5	6
Art. 242K - Art. 248K - Art. 246K	1	3	3	3	3	3	3
	2	3	3	3	3	3	3
Art. 243K - Art. 249K - Art. 247K	1	3	3	3	3	3	3
	2	3	3	3	3	3	3
Viti a testa bassa M5 x 10mm	1	3	3	3	3	3	3
	2	3	3	3	3	3	3

		Tipo (grandezza) morso / Vise type (size)					
		1	2	3	4	5	6
Art. 220F	Ø						
	Cont.						



GANASCE LAVORABILI MONOBLOCCO / SOLID MACHINEABLE JAWS

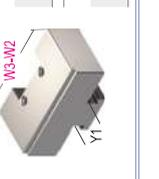
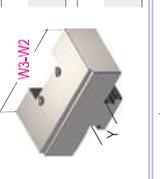
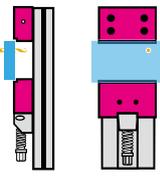
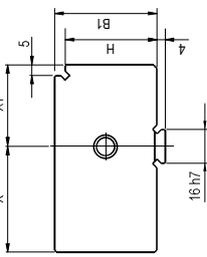
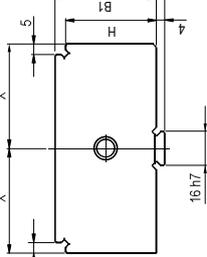
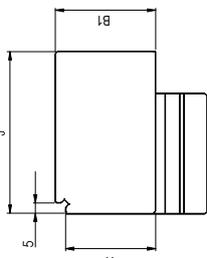
Typo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 160 W3 Ganascia fissa, Larghezza normale (W3) Fixed jaw, Normal width (W3)	Cod. 2,16,01000	2,16,02000	2,16,03000	2,16,04000	2,16,05000	2,16,06000
Art. 161 W1 Ganascia fissa, Larghezza ridotta rettificata (W1) Fixed jaw, Narrow width ground (W1)	Cod. 2,16,11000	2,16,12000	2,16,13000	2,16,14000	2,16,15000	2,16,16000
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
Art. 164 W1 Ganascia fissa doppia, Larghezza ridotta rettificata (W1) Double fixed jaw, Narrow width ground (W1)	Cod. 2,16,41000	2,16,42000	2,16,43000	2,16,44000	2,16,45000	2,16,46000
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
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
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
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


Durezza / Hardness 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

Typo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 200 W3 Ganascia 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
Art. 201 W1 Ganascia 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
Art. 203 W3 Ganascia 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
Art. 204 W1 Ganascia 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
Art. 208 W3 Ganascia 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
Art. 209 W2 Ganascia 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
Art. 206 W3 Ganascia 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
Art. 207 W2 Ganascia 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


Durezza / Hardness 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	36,5	41,5	47	47

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

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

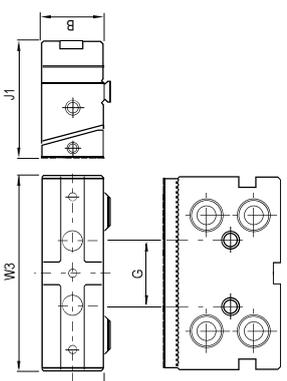
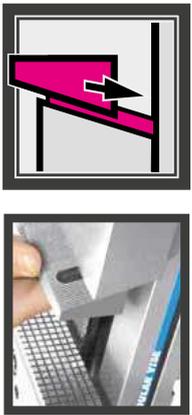
1	2	3	4	5	6
Art. 230B Piastra ganascia intercambiabile dolce a pettine Soft comb interchangeable jaw plate					
W4	95	120	145	170	195
B	28	38	48	58	63
C	9	9	11	11	14
Cod. 4.23.0B101 4.23.0B201 4.23.0B301 4.23.0B401 4.23.0B501 4.23.0B601					
Art. 230C Piastra ganascia intercambiabile liscia a pettine Smooth comb interchangeable jaw plate					
Cod. 4.23.0C101 4.23.0C201 4.23.0C301 4.23.0C401 4.23.0C501 4.23.0C601					
Art. 230D Piastra ganascia intercambiabile zigrinata a pettine Serrated comb interchangeable jaw plate					
Cod. 4.23.0D101 4.23.0D201 4.23.0D301 4.23.0D401 4.23.0D501 4.23.0D601					
Art. 230SLD Piastra ganascia scaricata a pettine Discharged comb jaw plate					
Cod. 4.23.0SLD101 4.23.0SLD201 4.23.0SLD301 4.23.0SLD401 4.23.0SLD501 4.23.0SLD601					
Art. 230SLE Piastra ganascia con gradino scaricata a pettine Discharged step comb jaw plate					
Cod. 4.23.0SLE101 4.23.0SLE201 4.23.0SLE301 4.23.0SLE401 4.23.0SLE501 4.23.0SLE601					
Art. 230K Piastra ganascia intercambiabile a gradino a pettine con inserti GRP Comb interchangeable step jaw plate with GRP inserts					
Cod. 4.23.0K100 4.23.0K200 4.23.0K300 4.23.0K400 4.23.0K500 4.23.0K600					
Art. 230F Piastra ganascia intercambiabile prismatica a pettine Prismatic comb interchangeable jaw plate					
Cod. 4.23.0F101 4.23.0F201 4.23.0F301 4.23.0F401 4.23.0F501 4.23.0F601					
Art. 230G Piastra ganascia intercambiabile a pettine con arresto a 90° 90° interchangeable comb jaw plate					
Cod. 4.23.0G101 4.23.0G201 4.23.0G301 4.23.0G401 4.23.0G501 4.23.0G601					
Art. 230H Piastra ganascia intercambiabile bombata a pettine Round comb interchangeable jaw plate					
Cod. 4.23.0H101 4.23.0H201 4.23.0H301 4.23.0H401 4.23.0H501 4.23.0H601					
Art. 230M Piastra ganascia intercambiabile a pettine per angolo di 30° o 45° 30° or 45° angle interchangeable comb jaw plate					
Cod. 4.23.0M101 4.23.0M201 4.23.0M301 4.23.0M401 4.23.0M501 4.23.0M601					
Art. 230L Piastra ganascia intercambiabile a pettine con inserti GRP frontali GRP frontal inserts interchangeable comb jaw plate					
Cod. 4.23.0L101 4.23.0L201 4.23.0L301 4.23.0L401 4.23.0L501 4.23.0L601					

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

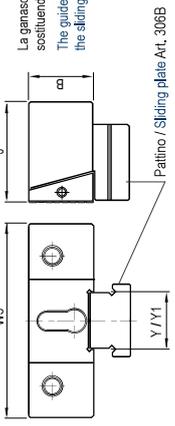
1	2	3	4	5	6
Art. 120A Ganascia fissa Fixed jaw					
Cod. 4.12.0A100 4.12.0A200 4.12.0A300 4.12.0A400 4.12.0A500 4.12.0A600					
Art. 123A Ganascia fissa doppia Double fixed jaw					
Cod. 4.12.3A100 4.12.3A200 4.12.3A300 4.12.3A400 4.12.3A500 4.12.3A600					
Art. 126A Ganascia mobile oscillante Floating movable jaw					
Cod. 4.12.6A100 4.12.6A200 4.12.6A300 4.12.6A400 4.12.6A500 4.12.6A600					
Art. 127A Ganascia mobile guidata Guided movable jaw					
Cod. 4.12.7A100 4.12.7A200 4.12.7A300 4.12.7A400 4.12.7A500 4.12.7A600					

Durezza / Hardnes HRC= 60

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



Art. 127A



Art. 126A

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. 4.30)
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 4.30)

mm	1	2	3	4	5	6
W3	96	121	146	171	196	296
W4	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	89,4	89,4	96,9	113,4	120,4
Y	21	28	41	51	61	71
Y1	20	27	40	50	60	70

GANASCE 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) Normal width (W3)	Cod. 1,21,21000	1,21,22000	1,21,23000	1,21,24000	1,21,25000	1,21,26000
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
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
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
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
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

GANASCE StdFLEX A CAMBIO RAPIDO / StdFLEX QUICK CHANGE JAWS

Tipo (grandezza) morsa / Vise type (size)

	1	2	3	4	5	6
Art. 230E Piastra ganascia intercambiabile a gradino a peltine Step comb interchangeable jaw plate	W 95	120	145	170	195	235
	B 28	38	48	58	63	78
	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

SPECIFICARE SEMPRE QUOTA "H1" - ALWAYS SPECIFY "H1" DIMENSION

Cod.	4,23,0E101	4,23,0E201	4,23,0E301	4,23,0E401	4,23,0E501	4,23,0E601
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SET RISPARMIO FINO AL 48% - SAVING UP WITH THE SET 48%

Acquistando i seguenti set di piastre ganascia
If you purchase this number of jaw plate sets

Set

8	12	14	14	14	14	14
Prezzi - Prices	Prezzi - Prices	Prezzi - Prices	Prezzi - Prices	Prezzi - Prices	Prezzi - Prices	Prezzi - Prices

Prezzo Cad. se acquistate con set
Prices each in case of set purchase



Art. 320
Portapiastre
Rack

Cod.	4,32,01000	4,32,02000	4,32,03000	4,32,04000	4,32,05000	4,32,06000
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Risparmio del 33% sul raccoglitore Art.320 (vuoto) se acquistato insieme ad un set di piastre ganascie Art.230A
Save 33% purchasing the rack Art.320 together with the small or big set of straight magnetic parallels plates Art.230E

Art. 605G1 Vite a gradino / Step screw

Cod. 6,60,5G101

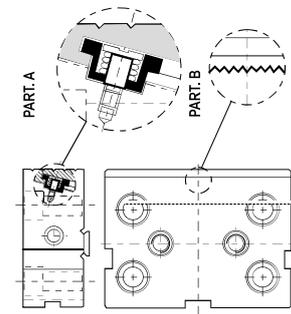
Art. 605G2 Perno a molla / Spring pin

Cod. 6,60,5G201

6,60,5G202

Art. 605G3 Molla / Spring

Cod. 6,60,5G301

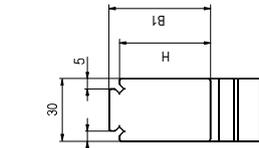


Rapida sostituzione delle piastre ganascie discendenti senza bisogno di alcun utensile
Il nuovo sistema con piastre ganascie intercambiabili, conferisce alla morsa STD un ulteriore aumento di versatilità dato dalla rapidità di sostituzione delle piastre ganascie e dalla precisione di riposizionamento.
La rapida di sostituzione delle piastre ganascie è resa possibile dal nuovo sistema con perno a molla (PART.A), mentre le righe prismatiche (PART.B) effilate con mola sagomata sui piani d'appoggio rendono possibile un riposizionamento di elevata precisione.

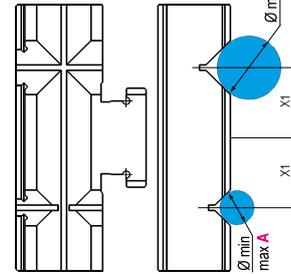
Quick hand change of downward jaw plates - no tools needed

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 working needs.

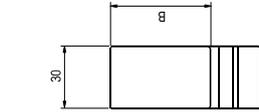
Art. 212



Art. 214

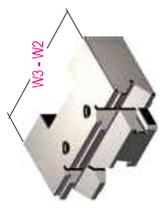


Art. 224

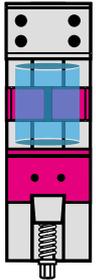


GANASCE MOBILI PRISMATICHE / PRISMATIC MOVABLE JAWS
Tipo (grandezza) morsa / Vise type (size)

	1	2	3	4	5	6
Art. 217 W3						
Ganascia mobile guidata prismatica.						
Larghezza normale (W3)						
Prismatic guided movable jaw.						
Normal width (W3)						
Art. 218 W2						
Ganascia mobile guidata prismatica.						
Larghezza ridotta (W2)						
Prismatic guided movable jaw.						
Narrow width (W2)						



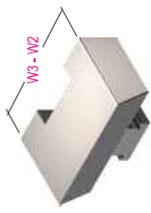
Art. 215 W2						
Insero prismatico.						
Larghezza ridotta (W2)						
Prismatic insert. Narrow width (W2)						



Cod.	2.21.71000	2.21.72000	2.21.73000	2.21.74000	2.21.75000	2.21.76000
Cod.	2.21.81000	2.21.82000	2.21.83000	2.21.84000	2.21.85000	2.21.86000
Cod.	4.15.21000	4.15.22000	4.15.23000	4.15.24000	4.15.25000	4.15.26000

Ganascce per PARTICOLARI TONDI / Jaws for ROUND WORKPIECE

Art. 210 W3						
Ganascia mobile oscillante.						
Larghezza normale (W3)						
Floating movable jaw. Normal width (W3)						
Art. 211 W2						
Ganascia mobile oscillante.						
Larghezza ridotta (W2)						
Floating movable jaw. Narrow width (W2)						



Art. 217

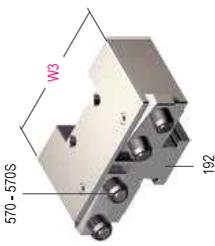
Art. 210

Art. 215

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	68	88
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
A Art.217	4-10	7-18	9-24	9-24	9-24	10-28
B Art.217	6-16	9-24	13-38	15-40	15-42	18-46
Ø min / max	Art.152					
Ø min / max	Art.210	50	85	80		105
Ø max						

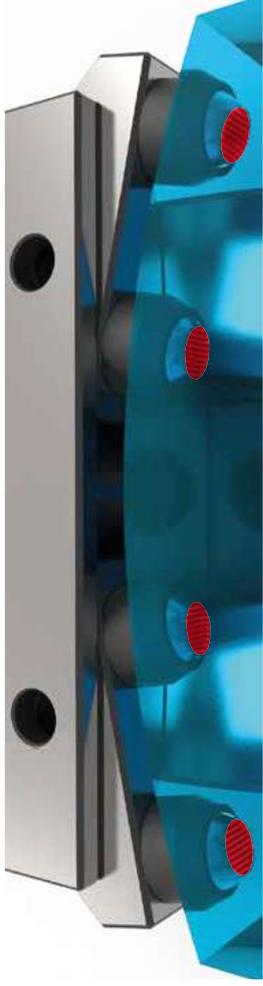
GANASCE CON SEGMENTI OSCILLANTI / MOVABLE JAW WITH FLOATING ELEMENTS
Tipo (grandezza) morsa / Vise type (size)

	1	2	3	4	5	6
Art. 192						
Ganascia mobile oscillante con 2 elementi oscillanti e puntali sferici lisci.						
Floating movable jaw with two floating elements and spherical smooth points.						



Art. 192S						
Ganascia mobile oscillante con 2 elementi oscillanti e puntali sferici zigzagati.						
Floating movable jaw with two floating elements and spherical serrated points.						

Per serraggio di particolari irregolari - For irregular workpieces damping						
Cod.	4.19.21000	4.19.22000	4.19.23000	4.19.24000	4.19.25000	4.19.26000
Cod.	4.19.25100	4.19.25200	4.19.25300	4.19.25400	4.19.25500	4.19.25800



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

Nessun problema di magnetismo sui trucioli

The modular bearing parallel plates are a further opportunity of the Gerardi modular system. It allows in fact the quick and accurate positioning of straight or angular parallel 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

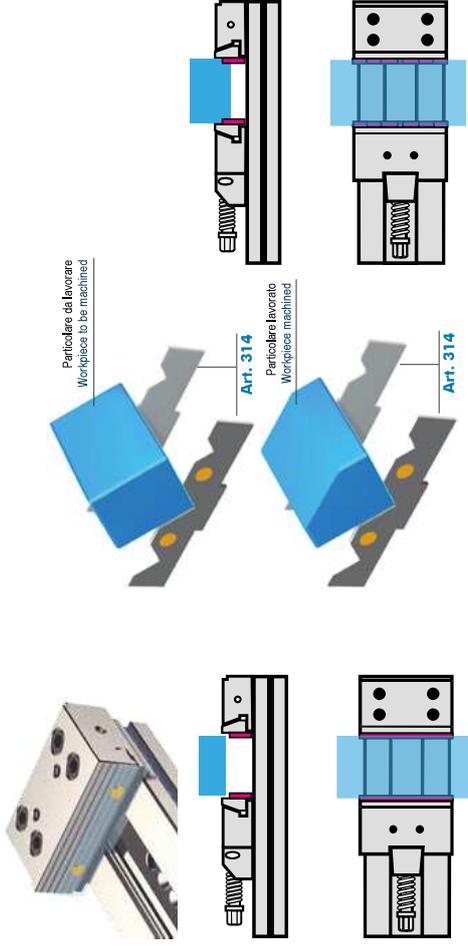
VANTAGGI:

- Rapicità e precisione di installazione.
 - Risparmio rispetto alla sostituzione della pancia sia intera.
 - Minori ingombri e costi rispetto alle parallele standard.
 - Usano parallele magnetiche con piastre ganascie avvitale
- 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 rightmated
- 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



Particolare da lavorare
Workpiece to be machined

Art. 314

Particolare lavorato
Workpiece machined

Art. 314

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

Art. 313A

Magnete per parallele
Magnet for parallels



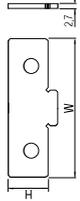
Cod. 4.31.3A100

NON MODULARI - NOT MODULAR

Richiedono aggiustaggio in opera - Adjustment needed before working

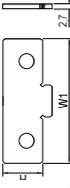
Art. 313

Coppia di parallele magnetiche guidate
Pair of guided parallel magnetic plates



Art. 313R

Coppia di parallele magnetiche guidate ridotte
Pair of narrow guided parallel magnetic plates



SPECIFICARE SEMPRE QUOTA "H" - ALWAYS SPECIFY "H" DIMENSION

W1	74	94	124	144	169	194
Cod.	4.31.3R10C	4.31.3R20C	4.31.3R30C	4.31.3R40C	4.31.3R50C	4.31.3R60C

SET RISPARMIO FINO AL 47% - SAVING WITH THE SET UP TO 47%

Art. 310

Acquistando 6 coppie di parallele (Art.313,313R)
If you purchase 6 pairs of parallel plates (Art.313,313R)

6 COPPIE - PAIRS

Art. 311

Acquistando 10 coppie di parallele (Art.313,313R)
If you purchase 10 pairs of parallel plates (Art.313,313R)

10 COPPIE - PAIRS

Art. 314

Coppia di parallele magnetiche angolari
Pair of angular magnetic parallel plates

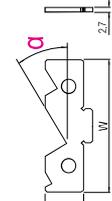
Art. 314

Coppia di parallele magnetiche angolari
Pair of angular magnetic parallel plates



Art. 314

Coppia di parallele magnetiche angolari
Pair of angular magnetic parallel plates



SPECIFICARE SEMPRE QUOTA "alpha" - SPECIFY ALWAYS "alpha" DIMENSION

W	100	125	150	175	200	300
H	23	33	43	53	55	68
Cod.	4.31.4100C	4.31.4200C	4.31.4300C	4.31.4400C	4.31.4500C	4.31.4600C

SET RISPARMIO FINO AL 43% - SAVING WITH THE SET UP TO 43%

Art. 328

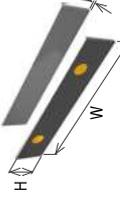
Acquistando 6 coppie di parallele magnetiche (Art.314)
If you purchase 6 pairs of angular parallel plates (Art.314)

6 COPPIE - PAIRS

Utilizzabili per qualsiasi tipo o marca di morsa - To be used with any vise type or brand

Art. 414

Coppia di parallele magnetiche universali
Pair of universal parallel magnetic plates



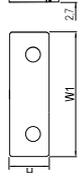
Art. 414

SPECIFICARE SEMPRE QUOTA "H" - ALWAYS SPECIFY "H" DIMENSION

W	100	125	150	175	200	300
J	2.7	2.7	2.7	2.7	2.7	2.7
Cod.	4.41.4100C	4.41.4200C	4.41.4300C	4.41.4400C	4.41.4500C	4.41.4600C

Art. 414R

Coppia di parallele magnetiche ridotte universali
Pair of universal narrow parallel magnetic plates



Art. 414R

SPECIFICARE SEMPRE QUOTA "H" - ALWAYS SPECIFY "H" DIMENSION

W1	74	94	124	144	169	194
Cod.	4.41.4R10C	4.41.4R20C	4.41.4R30C	4.41.4R40C	4.41.4R50C	4.41.4R60C

ACCESSORI PER GANASCE / ACCESSORIES FOR JAWS

Tipo (grandezza) / Vise type (size)	1	2	3	4	5	6
Art. 132 Prolunga per ganascia mobile. Larghezza normale Extension for movable jaw. Normal width	Cod. 2.13.21000	2.13.22000	2.13.23000	2.13.24000	2.13.25000	2.13.26000
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
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
Art. 135 Prolunga per ganascia fissa. Ridotta e super ridotta Extension for fixed jaw. Narrow and super narrow	Cod. 2.13.51000	2.13.52000	2.13.53000	2.13.54000	2.13.55000	2.13.56000
Art. 260 Segmento oscillante per ganascie 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
Art. 362 Molla per piastra ganascia Spring for jaw plates	Cod. 0.70.10000	0.70.20000	0.70.30000	0.70.40000	0.70.50000	0.70.60000
Art. 380 Vite TCCEI fissaggio corpo ganascia fissa Hex socket and screw for fixed jaw body	Cod. 0.01.11030	0.01.10895	0.01.11450	0.01.11660	0.01.12065	0.01.12080
Art. 381 Vite TCCEI fissaggio piastra ganascia fissa Hex socket screw for fixed jaw plate	Cod. 0.01.10565	0.01.11240	0.01.11461	0.01.11661	0.01.12066	0.01.12081
Art. 382 Vite TCCEI 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
Art. 383 Vite TCCEI fissaggio piastra ganascia fissa doppia Hex socket and screw for double fixed jaw	Cod. 0.01.10520	0.01.10520	0.01.10820	0.01.11820	0.01.11020	0.01.11020
Art. 384 Vite TCCEI per arresto laterale Hex socket and screw for workshop	Cod. 0.05.11000	0.05.22000	0.05.33000	0.05.44000	0.05.55000	0.05.66000
Art. 431 Rondella per arresto laterale Washer for workshop	Cod. 2.43.10000	2.43.12000	2.43.13000	2.43.14000	2.43.15000	2.43.16000
Art. 440 Dado per arresto laterale Nut for workshop	Cod. 2.44.01000	2.44.02000	2.44.03000	2.44.04000	2.44.05000	2.44.06000
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
Art. 570S Puntale sferico zigrinato Serrated spherical point	Cod. 1.57.05100	1.57.05300	1.57.05500	1.57.05700	1.57.05900	1.57.06100

CORPI GANASCE STANDARD / BODIES STANDARD JAWS

Tipo (grandezza) / Vise type (size)	1	2	3	4	5	6
Art. 300 Corpo ganascia fissa. Larghezza normale Body fixed jaw. Normal width	Cod. 1.35.10000	1.35.20000	1.35.30000	1.35.40000	1.35.50000	1.35.60000
Art. 301 Corpo ganascia fissa. Larghezza ridotta rettificata Body fixed jaw. Normal width ground	Cod. 1.35.10300	1.35.20300	1.35.30300	1.35.40300	1.35.50300	1.35.60300
Art. 303 Corpo ganascia fissa doppia. Larghezza normale Double body fixed jaw. Normal width	Cod. 1.35.10900	1.35.20900	1.35.30900	1.35.40900	1.35.50900	1.35.60900
Art. 304 Corpo ganascia fissa doppia. Larghezza ridotta rettificata Double body fixed jaw. Normal width ground	Cod. 1.35.11200	1.35.21200	1.35.31200	1.35.41200	1.35.51200	1.35.61200
Art. 306 Corpo ganascia mobile guidata. Larghezza normale Body guided movable jaw. Normal width	Cod. 1.36.10000	1.36.20000	1.36.30000	1.36.40000	1.36.50000	1.36.60000
Art. 302 Corpo ganascia mobile oscillante. Larghezza normale Body floating movable jaws. Normal width	Cod. 4.30.21000	4.30.22000	4.30.23000	4.30.24000	4.30.25000	4.30.26000
Art. 307 Corpo ganascia mobile guidata. Larghezza ridotta rettificata Body guided movable jaw. Narrow width ground	Cod. 1.36.11000	1.36.21000	1.36.31000	1.36.41000	1.36.51000	1.36.61000
Art. 305 Corpo ganascia mobile guidata per segmenti oscillanti. Larghezza normale Body guided movable jaw for floating elements. Normal width	Cod. 4.30.51000	4.30.52000	4.30.53000	4.30.54000	4.30.55000	4.30.56000
Art. 308 Corpo ganascia mobile oscillante per segmenti oscillanti. Larghezza normale Body floating movable jaw for floating elements. Normal width	Cod. 1.36.10400	1.36.20400	1.36.30400	1.36.40400	1.36.50400	1.36.60400
Art. 309 Corpo ganascia mobile oscillante per segmenti oscillanti. Larghezza ridotta Body floating movable jaw for floating elements. Narrow width	Cod. 1.36.10700	1.36.20700	1.36.30700	1.36.40700	1.36.50700	1.36.60700
Art. 190 Corpo ganascia mobile oscillante guidata con 2 segmenti oscillanti. Larghezza normale Body guided floating movable jaw with 2 floating segments. Normal width	Cod. 2.19.01000	2.19.02000	2.19.03000	2.19.04000	2.19.05000	2.19.06000
Art. 191 Corpo ganascia mobile oscillante guidata con 2 segmenti oscillanti. Larghezza ridotta Body guided floating movable jaw with 2 floating segments. Narrow width	Cod. 2.19.11000	2.19.12000	2.19.13000	2.19.14000	2.19.15000	2.19.16000

CORPI GANASCE PIANE / BODY - STRAIGHT JAWS

Tipo (grandezza) / Vise type (size)

	1	2	3	4	5	6
Art. 315 Corpo ganascia fissa. Larghezza normale Body fixed jaw. Normal width	Cod. 1,35,11800	1,35,21800	1,35,31800	1,35,41800	1,35,51800	1,35,61800
Art. 316 Corpo ganascia fissa. Larghezza ridotta rettificata Body fixed jaw. Narrow width ground	Cod. 1,35,12100	1,35,22100	1,35,32100	1,35,42100	1,35,52100	1,35,62100
Art. 318 Corpo ganascia fissa doppia. Larghezza normale Double body fixed jaw. Normal width	Cod. 1,35,12700	1,35,22700	1,35,32700	1,35,42700	1,35,52700	1,35,62700
Art. 319 Corpo ganascia fissa doppia. Larghezza ridotta rettificata Double body fixed jaw. Narrow width ground	Cod. 1,35,13000	1,35,23000	1,35,33000	1,35,43000	1,35,53000	1,35,63000
Art. 321 Corpo ganascia mobile guidata. Larghezza normale Body guided movable jaw. Normal width	Cod. 1,36,11800	1,36,21800	1,36,31800	1,36,41800	1,36,51800	1,36,61800
Art. 322 Corpo ganascia mobile guidata. Larghezza ridotta rettificata Body guided movable jaw. Narrow width ground	Cod. 1,36,12200	1,36,22200	1,36,32200	1,36,42200	1,36,52200	1,36,62200
Art. 323 Corpo ganascia mobile oscillante. Larghezza normale Body floating movable jaw. Normal width	Cod. 1,36,11300	1,36,21300	1,36,31300	1,36,41300	1,36,51300	1,36,61300
Art. 324 Corpo ganascia mobile oscillante. Larghezza ridotta rettificata Body floating movable jaw. Narrow width ground	Cod. 1,36,11900	1,36,21900	1,36,31900	1,36,41900	1,36,51900	1,36,61900

CORPI GANSCHE PER PIASTRE INTERCAMBIABILI MANUALMENTE
JAW BODIES FOR QUICK INTERCHANGEABLE JAW PLATES

Art. 300A Corpo ganascia fissa Fixed jaw body	Cod. 1,30,0A100	1,30,0A200	1,30,0A300	1,30,0A400	1,30,0A500	1,30,0A600
Art. 303A Corpo ganascia fissa doppia Double fixed jaw body	Cod. 1,30,3A100	1,30,3A200	1,30,3A300	1,30,3A400	1,30,3A500	1,30,3A600
Art. 306A Corpo ganascia mobile guidata Guided movable jaw body	Cod. 1,30,6A100	1,30,6A200	1,30,6A300	1,30,6A400	1,30,6A500	1,30,6A600
Art. 306B Pattino per ganascie mobili guidate Sliding plate for guided movable jaw	Cod. 1,30,6B100	1,30,6B200	1,30,6B300	1,30,6B400	1,30,6B500	1,30,6B600
Art. 306C Pattino per ganascie mobili oscillanti Sliding plate for floating movable jaw	Cod. 1,30,6C100	1,30,6C200	1,30,6C300	1,30,6C400	1,30,6C500	1,30,6C600

Y1 = Y - 1mm

GRUPPI PREASSEMBLATI / PRE-ASSEMBLED GROUP

Tipo (grandezza) / 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

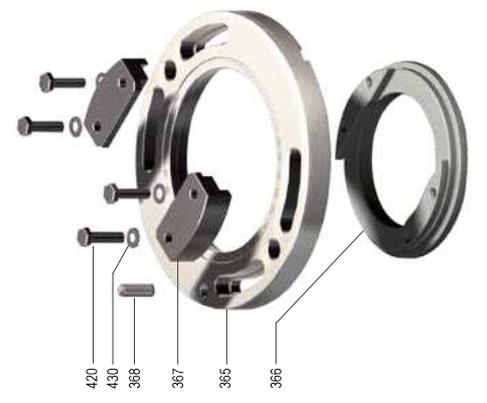
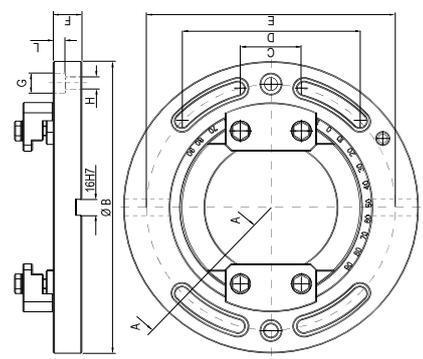


Art. 105 - Senza alcuna dotazione
Art. 105 - Supplied without accessory equipment

Art. 365 Anello esterno per base girevole Outer ring swivel base	Cod. 1,81,11000	1,81,21000	1,81,31000	1,81,41000	1,81,51000	1,81,61000
Art. 366 Anello interno per base girevole Inner ring swivel base	Cod. 1,81,12000	1,81,22000	1,81,32000	1,81,42000	1,81,52000	1,81,62000
Art. 367 Sfatta per base girevole Clamp swivel base	Cod. 1,84,10000	1,84,20000	1,84,30000	1,84,40000	1,84,50000	1,84,60000
Art. 368 Spina cilindrica per base girevole Straight pin swivel base	Cod. 0,80,11000	0,80,21000	0,80,31000	0,80,41000	0,80,51000	0,80,61000
Art. 420 Vite assegnate per base girevole Bolt swivel base	Cod. 0,05,08035	0,05,10035	0,05,10040	0,05,12050	0,05,14050	0,05,14060
Art. 430 Rondella per base girevole Washer swivel base	Cod. 0,75,18416	0,75,11052	0,75,11052	0,75,11325	0,75,11625	0,75,11625



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



GRUPPI PREASSEMBLATI / PRE-ASSEMBLED GROUP

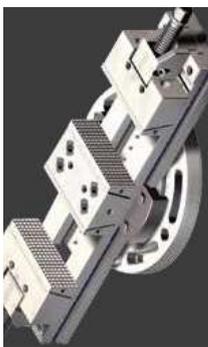
Art. 105
 Art. 105

Base girevole
 Swivel base

Art. 2
 Art. 2

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

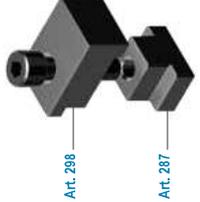
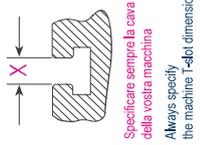
Art. 2
 Art. 2

Morsa STD Art. 1 + Base girevole Art.105
 Art. 1 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

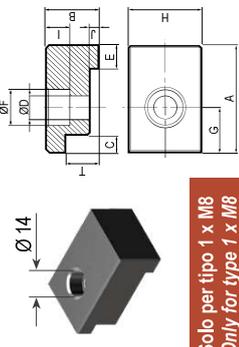
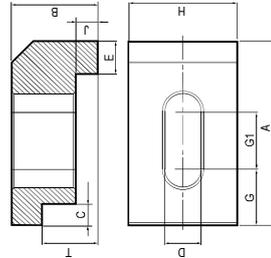
Art. 2A
 Art. 2A

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

STAFFE DI ANCORAGGIO PER MORSE / VISE HOLDING CLAMPING
Art. 296 Coppia di staffe Art. 298 complete di vite e dado a T (Art. 287) / Pair of vise holding clamps Art. 298 complete of screws and T nuts (Art. 287)

 Art. 298
 Art. 287

 Specificare sempre la cava della vostra macchina
 Always specify the machine T-diol dimension

* Scelta consigliata - Suggested choice

Morse / Vises	Tipo (grandezza) morsa / Vise (type) size	M10	M12 *	M16	M12 *	M16	M16 *	M12	M16 *	M16 *
STD	1-2	1	1-2	3-4	3-4	5-6	5-6			
FMS	1	1	1	2-3	2-3	4-5-6	4-5-6			
MULTITASKING	1	1	1	2-3	2-3	-	-			
COMPACT GRIP	3	3	3	2-3	2-3	-	-			
GRIPMATIC	1-2-3	1-2-3	1-2-3	-	-	-	-			
	2-3-4	2-3-4	2-3-4	-	-	-	-			
Staffe / Holding Clamps		M8	M10	M12 *	M16	M12 *	M16	M12	M16	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	2.29.65000 / M16

Art. 298 Staffe di ancoraggio per morse (Vendute singolarmente) / Vise holding clamps (Single)

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


* Scelta consigliata - Suggested choice

Morse / Vises	Tipo (grandezza) morsa / Vise (type) size	M10	M12 *	M16	M12 *	M16	M12 *	M16	M16 *	M12	M16 *
STD	1-2	1	1-2	3-4	3-4	5-6	5-6				
FMS	1	1	1	2-3	2-3	4-5-6	4-5-6				
MULTITASKING	1	1	1	2-3	2-3	-	-				
COMPACT GRIP	3	3	3	2-3	2-3	-	-				
GRIPMATIC	1-2-3	1-2-3	1-2-3	-	-	-	-				
	2-3-4	2-3-4	2-3-4	-	-	-	-				
Staffe / Holding Clamps		M8	M10	M12 *	M16 <td>M12 *</td> <td>M16</td> <td>M12</td> <td>M16</td> <td>M12</td> <td>M16 *</td>	M12 *	M16	M12	M16	M12	M16 *
A		50	50	50	76	76	86	86	86		
B		24	24	24	30	30	40	40	40		
C		6	6	6	6	6	10	10	10		
ØD		8,5	11	13	17	13	17	13	17		
E		10	10	10	13	13	15	15	15		
ØF		14	-	-	-	-	-	-	-		
G/G1		17	16 / 15	17,5 / 13	19 / 9	17 / 22	16 / 15	26 / 27	26 / 27		
H		34	34	34	42	42	50	50	50		
I		8	10	10	10	10	-	-	-		
J		4	4	4	4	4	10	10	10		
T ± 0,1		15	15	15	20	20	26	26	26		
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	2.29.65000 / M12	2.29.65000 / M16

ATTREZZI e DOTAZIONI / TOOLS and EQUIPMENT

Tipo (grandezza) morsa / Vise type (size)

Art. 291	1	2	3	4	5	6
Ø	13,2	20,8	20,8	25,8	25,8	25,8
Cod.	1,28,11000	1,28,12000	1,28,13000	1,28,14000	1,28,15000	1,28,16000



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



Art. 325
Chiave esagonale a bussola
Hexagon bushing

Tipo (grandezza) morsa / Vise type (size)

Art. 370	0	1	2	3	4	5	6
Morse Standard / FMS Standard / FMS Vises	10	10	12	12	12	16	16
Vite / Screw	90x30x15	120x30x15	120x30x15	120x30x15	120x30x15	180x40x25	180x40x25
Slafra / Bracket	2,37,01000	2,37,01000	2,37,03000	2,37,03000	2,37,03000	2,37,05000	2,37,05000



Art. 370
Anello laterale completo
Complete workshop



Art. 666l	5	6	6	8	8
Morse OK	5	6	6	8	8
Perno / Pin	55x16x12	70x20x14	70x20x14	70x20x14	90x20x18
Slafra / Bracket	7,66,91000	7,66,91000	7,66,91000	7,66,91000	7,66,91500

Art. 666l
Anello laterale morsa OK
Workshop for OK Vises



Art. 370EM
Anello laterale magnetico
Magnetic workshop

Tipo (grandezza) morsa / Vise type (size)

Art. 375	1	2	3	4	5	6
Morse Standard / Standard Vises	12	160	19	250	22	300
Morse FMS / FMS Vises	16	250	16	250	19	250
Morse CompactGRIP / CompactGRIP Vises	10	160	12	160	16	250

Art. 375
Chiave a pipa
Box wrench



Tipo (grandezza) morsa / Vise type (size)

Art. 376	4	5	6
Morse CompactGRIP - MaxiGrip / CompactGrip - MaxiGrip Vises	10	160	12
Morse CompactGRIP - CompactGrip / CompactGrip - CompactGrip Vises	10	160	12
Morse CompactGRIP - CompactGrip - MaxiGrip / CompactGrip - MaxiGrip Vises	10	160	12

Art. 376
Chiave a T
T wrench



Tipo (grandezza) morsa / Vise type (size)

Art. 377	2	2,5	3	3,5	4	4,5
Morse CompactGRIP - MaxiGrip / CompactGrip - MaxiGrip Vises	10	160	12	160	16	250
Morse CompactGRIP - CompactGrip / CompactGrip - CompactGrip Vises	10	160	12	160	16	250

Art. 377
Chiave esagonale serie lunga
Hexagon wrench long reach



Tipo (grandezza) morsa / Vise type (size)

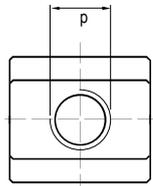
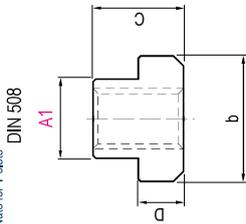
Art. 357	10-135	20-200	2,5-7,000	34-340
Morse CompactGRIP - MaxiGrip / CompactGrip - MaxiGrip Vises	10	160	12	160
Morse CompactGRIP - CompactGrip / CompactGrip - CompactGrip Vises	10	160	12	160

Art. 357
Chiave dinamometrica digitale a cirochietto con attacco 1/2"
Torque wrench digital ratchet type with hexagon with 1/2" driver square



Art. 287

Dati per cave a T
Nuts for T slots

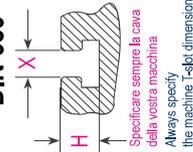


In fase d'ordine, completare il codice specificando il numero N di dado a T

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

Esempio / Example
Cod. 2,28,74000 / 24

DIN 650

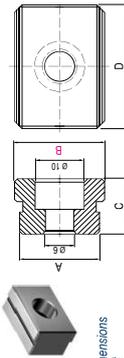


Specificare sempre la cave della vostra macchina
Always specify the machine T-slot dimension

Tipo (grandezza) morsa / Vise type (size)

Art. 297	1	2	3	4	5	6
Morse CompactGRIP - MaxiGrip / CompactGrip - MaxiGrip Vises	10	160	12	160	16	250
Morse CompactGRIP - CompactGrip / CompactGrip - CompactGrip Vises	10	160	12	160	16	250

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 formibili a richiesta
Other types and dimensions available on request

DISPOSITIVI MECCANICI / MECHANICAL BLOCKING DEVICES

Tipo (grandezza) morsa / Vise type (size)		1	2	3	4	5	6
kg	Art. 258	0,4	1	1,9	2,9	5,3	7,8
Cod.		2.25.61000	2.25.62000	2.25.63000	2.25.64000	2.25.65000	2.25.66000

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



Art. 355
Vite di spinta, Ribotta
Clamping bolt, Short



Art. 356
Vite di spinta, Super ribotta
Clamping bolt, Super short



Art. 282A
Supporto di serraggio meccanico
Mechanical clamping device support



Art. 410
Grano
Set screw



Art. 361
Sfera
Ball



SERVOCOMANDI OLEODINAMICI / HYDRAULIC SERVO UNITS

Tipo (grandezza) morsa / Vise type (size)		1	2	3	4	5	6
kg	Art. 257						
Cod.			2.25.73000	2.25.74000	2.25.75000	2.25.76000	

Gruppo di serraggio a vite idraulica (Autonomo)
Hydraulic hand screw clamping device (Self contained)



Art. 284A

Supporto di serraggio per mandrino a vite idraulica
Clamping support for hydraulic spindle



Art. 286

Mandrino a vite idraulica
Hydraulic spindle



Art. 295

Gruppo di serraggio a vite idraulica compatto
Compact hydraulic hand screw clamping device



Art. 294A

Supporto di serraggio per mandrino compatto a vite idraulica
Clamping support for compact hydraulic spindle



Art. 293

Mandrino compatto a vite idraulica
Compact hydraulic spindle



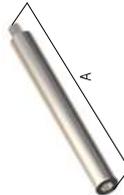
Art. 290

Manovella per mandrino a vite idraulica
Crank hydraulic spindle



Art. 292

Prolunga per Art. 290
Extension for Art. 290

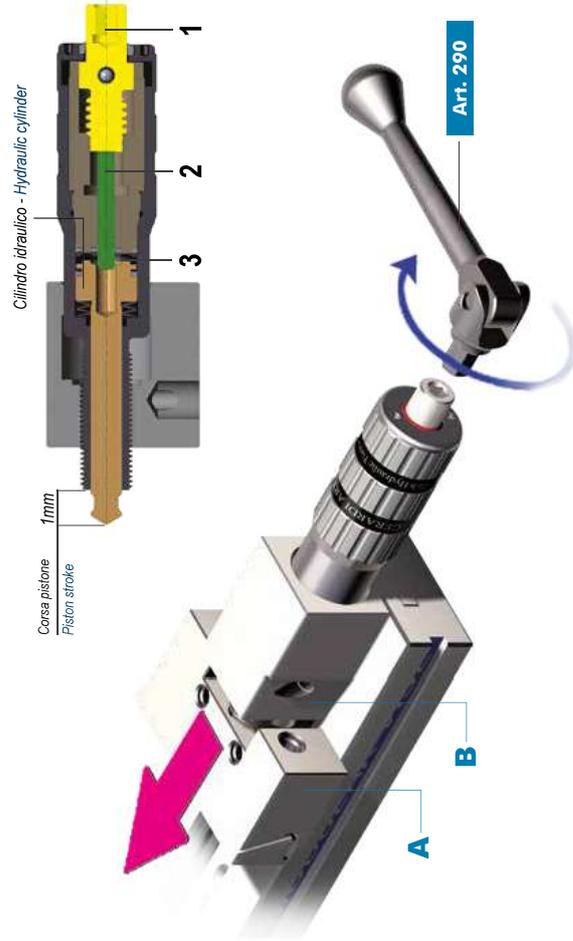


METODI ALTERNATIVI DI SERRAGGIO

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 ganasce mobile **A** e supporto vite **B** sia pulito, in modo che il mandrino idraulico possa scorrere liberamente senza impiedimenti 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 ganasce 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 slantluffo **2** nella camera d'olio **3** generando pressione. Dopo il precarico meccanico **ogni giro di manovella genera una forza K** e **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 stop 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** and **when the spindle reaches the end of its possible run it reaches its max possible power**.

Diagrammi di serraggio / Clamping diagrams

Gruppi di serraggio idraulici

Hydraulic clamping devices

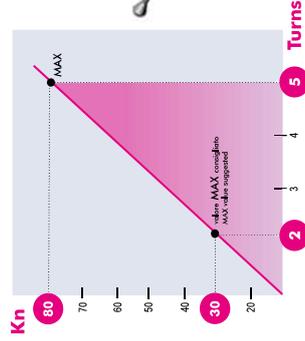
Diagrammi di serraggio meccanico con vite idraulica

Mechanical clamping diagrams with hydraulic hand screw

Morse tipo 3-4

Vises type

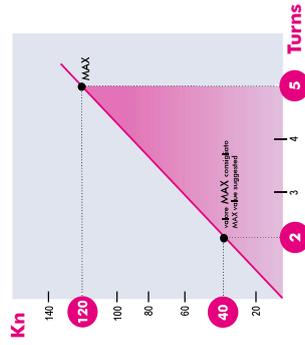
Autonomo - Self-Contained



Morse tipo 5-6

Vises type

Autonomo - Self-Contained



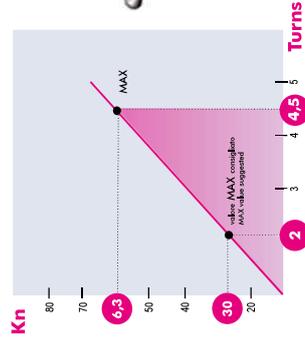
Gruppi di serraggio meccanici (**Art.257 - Art.295**) / Mechanical clamping devices (**Art.257 - Art.295**)

I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con i seguenti gruppi di serraggio idraulici (da 1 a 6) in funzione dei giri applicati. The following diagrams give the clamping force that can be obtained with each hydraulic clamping devices type (size 1 to 6) depending on the turns

Morse tipo 3-4

Vises type

Compatto - Compact



MORSE StandardMatic

Tipo (grandezza) morsea / Vise type (size)	1 16 kN	2 25 kN	3 30 kN	4 30 kN
Apertura massima / Maximum spread	A 100	150	200	300
	W 100	125	150	175
	B 30	40	50	60
	C 35	40	50	58
	D 270	345	420	455
	G 75	95	125	145
	X 78	103,5	98	78
kg	6,8	12,9	25,5	37
	42	47	52	52
Cod.	1,1E,10000	1,1E,20000	1,1E,30000	1,1E,40000
	1,1E,50000	1,1E,60000	1,1E,70000	1,1E,80000



Art. 1E
Morsa modulare STD con cilindro idraulico a SINGOLO effetto
Art.271

STD precision modular vise with SINGLE effect hydraulic cylinder



Art. 393
Centralina a comando manuale SINGOLO effetto
Single effect power unit with manual control

Cod. 4,39,34500



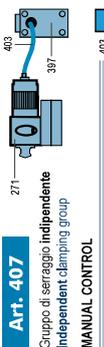
Art. 394
Centralina a comando pneumatico remoto SINGOLO effetto
Single effect power unit with remote pneumatic control

Cod. 4,39,44500



Art. 395
Centralina a comando elettrico SINGOLO effetto
Single effect power unit with electrical control

Cod. 4,39,54500



Art. 407
Gruppo di serraggio indipendente
Independent clamping group

Cod. 4,40,71000 4,40,72000 4,40,73000 4,40,74000



Art. 407A
Gruppo di serraggio indipendente
Independent clamping group

Cod. 4,40,7A100 4,40,7A200 4,40,7A300 4,40,7A400



Art. 407B
Gruppo di serraggio indipendente
Independent clamping group

Cod. 4,40,7B100 4,40,7B200 4,40,7B300 4,40,7B400



Art. 407C
Gruppo di serraggio indipendente
Independent clamping group

Cod. 4,40,7C100 4,40,7C200 4,40,7C300 4,40,7C400



Art. 407D
Gruppo di serraggio indipendente
Independent clamping group

Cod. 4,40,7D100 4,40,7D200 4,40,7D300 4,40,7D400



Art. 407E
Gruppo di serraggio indipendente
Independent clamping group

Cod. 4,40,7E100 4,40,7E200 4,40,7E300 4,40,7E400

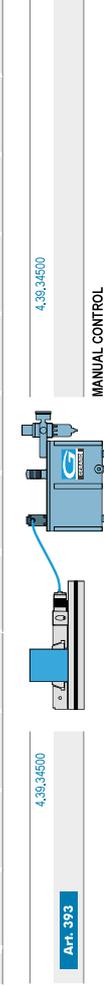


Art. 407F
Gruppo di serraggio indipendente
Independent clamping group

Cod. 4,40,7F100 4,40,7F200 4,40,7F300 4,40,7F400

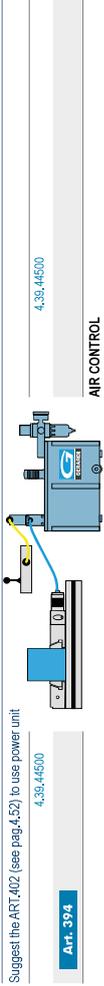
StandardMatic VISES

	5 40 kN		6 40 kN	
A	200	300	400	500
W	200	200	300	300
B	65	65	80	80
C	70	70	78	78
D	495	595	795	895
G	170	170	185	185
X	64	64	43,5	43,5
kg	64	69	74	79
	84	84	95	105
	115	125	135	145
Cod.	1,1E,50000	1,1E,50000	1,1E,50000	1,1E,50000
	1,1E,50000	1,1E,50000	1,1E,50000	1,1E,50000
	1,1E,50000	1,1E,50000	1,1E,50000	1,1E,50000
	1,1E,50000	1,1E,50000	1,1E,50000	1,1E,50000



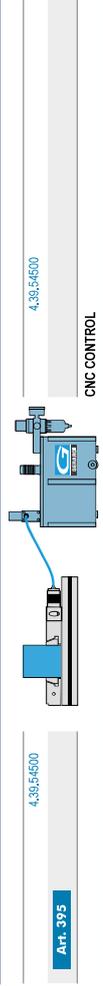
Art. 393
Centralina a comando manuale SINGOLO effetto
Single effect power unit with manual control

Cod. 4,39,34500



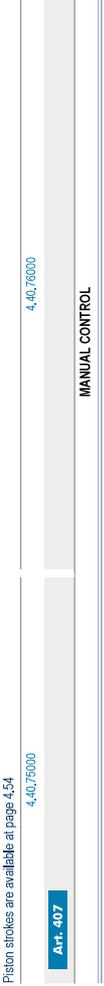
Art. 394
Centralina a comando pneumatico remoto SINGOLO effetto
Single effect power unit with remote pneumatic control

Cod. 4,39,44500



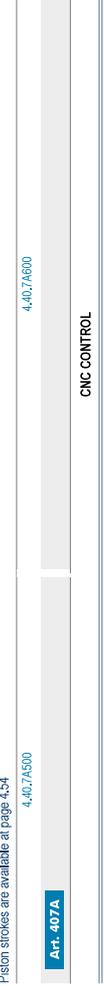
Art. 395
Centralina a comando elettrico SINGOLO effetto
Single effect power unit with electrical control

Cod. 4,39,54500



Art. 407
Gruppo di serraggio indipendente
Independent clamping group

Cod. 4,40,75000 4,40,76000 4,40,77000 4,40,78000



Art. 407A
Gruppo di serraggio indipendente
Independent clamping group

Cod. 4,40,7A500 4,40,7A600 4,40,7A700 4,40,7A800



Art. 407B
Gruppo di serraggio indipendente
Independent clamping group

Cod. 4,40,7B500 4,40,7B600 4,40,7B700 4,40,7B800



Art. 407C
Gruppo di serraggio indipendente
Independent clamping group

Cod. 4,40,7C500 4,40,7C600 4,40,7C700 4,40,7C800



Art. 407D
Gruppo di serraggio indipendente
Independent clamping group

Cod. 4,40,7D500 4,40,7D600 4,40,7D700 4,40,7D800



Art. 407E
Gruppo di serraggio indipendente
Independent clamping group

Cod. 4,40,7E500 4,40,7E600 4,40,7E700 4,40,7E800

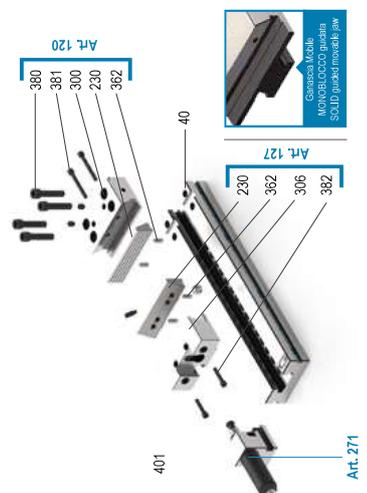


Art. 407F
Gruppo di serraggio indipendente
Independent clamping group

Cod. 4,40,7F500 4,40,7F600 4,40,7F700 4,40,7F800

Art. 1E

Pneumo-idraulico servo units (complete of hydraulic cylinder + support) for multiple clamping simultaneous or independent, from 2 to 6 vises. See from page 4,38 to 4,49



Art.	Pag.
40	1,24
230	4,9
271	4,54
300	4,29
306	4,29
362	4,28
380	4,28
381	4,28
382	4,28



ESEMPIO D'ORDINE PER KIT COMPLETO: Art. 1E (Morsa) + Art. 393 (centralina a comando manuale) + Art. 403 (tubo 1,5M)
COMPLETE KIT ORDER EXAMPLE: Art. 1E (Vise) + Art. 393 (power unit with manual control) + Art. 403 (pipe 1,5M)

Standard equipment:
 ■ Workshop Art. 370
 ■ Part of positioning key-outs Art. 297 (Standard for 16 mm Art. Other dimensions available on request without price change)
 ■ 1-Evench Art. 376
 Extra charge for each additional hole (F7 tolerance)
 - Extra charge for each additional key nut (F7 tolerance)

MORSE StandardMatic

Tipo (grandezza) morsea / Vise type (size)	1		2		3		4	
	16 kN		25 kN		30 kN		30 kN	
A	100	150	200	300	200	300	400	500
W	100	125	150				175	
B	30	40	50				60	
C	35	40	50				58	
D	270	345	420	520	455	555	655	755
G	75	95	125				145	
X	78	103,5	98				78	
kg	6,8	12,9	25,5	29	37	42	47	52
Cod.	1,1F-10000	1,1F-20000	1,1F-30000	1,1F-40000	1,1F-50000	1,1F-60000	1,1F-70000	1,1F-80000



Art. 1F
Morsa modulare STD con cilindro idraulico a DOPPIO effetto

NEW 2021

STD precision modular vise with DOUBLE effect hydraulic cylinder



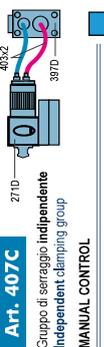
Art. 393D MAX 450bar
Centralina a comando manuale doppio effetto
Double effect power unit with manual control



Art. 394D MAX 450bar
Centralina a comando pneumatico remoto doppio effetto
Double effect power unit with remote pneumatic control



Art. 395D MAX 450bar
Centralina a comando elettrico doppio
Power unit with double electrical control



Art. 407C
Gruppo di serraggio indipendente
Independent clamping group



Art. 407D
Gruppo di serraggio indipendente
Independent clamping group
OPTIONAL Pneumatic valve € 237



Art. 407E
Gruppo di serraggio indipendente
Independent clamping group
Art. 407 Valvola pneumatica Pneumatic valve



Art. 1E
Morsa a comando manuale
Manual control vise



Dimensione standard:
■ 1 anello laterale Art. 370
■ 1 coppia di tacchi di posizionamento Art. 297 (Standard per circa da 16 mm; altre dimensioni o richieste senza variazione di prezzo)
■ 1 filetto e 1° Art. 376
Extra per ogni tubo colabagno (altezza 77)
- Extra per ogni cuneo (altezza 117)

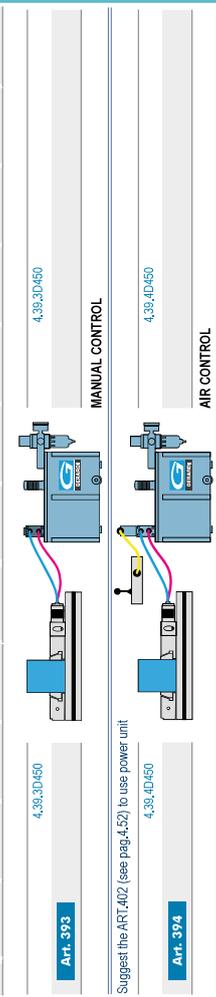
MANUAL CONTROL	
Art. 407C	4,40,7C100 4,40,7C200 4,40,7C300 4,40,7C400
Art. 407D	4,40,7D100 4,40,7D200 4,40,7D300 4,40,7D400
CNC CONTROL	
Art. 407E	4,40,7E100 4,40,7E200 4,40,7E300 4,40,7E400
AIR CONTROL	
Art. 393D	4,39,3D450
Art. 394D	4,39,4D450
Art. 395D	4,39,5D450

Standard equipment:
■ Workshop Art. 370
■ Pair of positioning key-ways Art. 297 (Standard for 16 mm kit. Other dimensions available on request without price change)
■ 1 thread Art. 376
Extra charge for each additional hole (77 tolerance) - Extra charge for each additional key nut (77 tolerance)

ESEMPLO D'ORDINE PER KIT COMPLETO: Art. 1F (Morsa) + Art. 393 (centralina a comando manuale) + Art. 403 (tubo 1,5M)
COMPLETE KIT ORDER EXAMPLE: Art. 1F (Vise) + Art. 393 (power unit with manual control) + Art. 403 (pipe 1.5M)

StandardMatic VISES

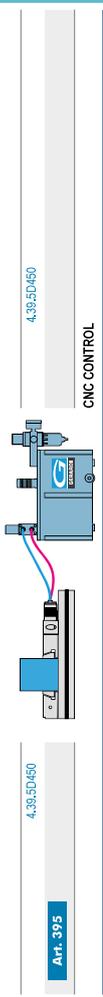
	5		6				
	40 kN		40 kN				
A	200	300	400	500	600	700	800
W			200				300
B			65				80
C			70				78
D	495	595	695	795	895	935	1035
G			170				185
X			64				43,5
kg	64	69	74	79	84	105	115
Cod.	1,1F-50000	1,1F-53000	1,1F-56000	1,1F-59000	1,1F-62000	1,1F-65000	1,1F-68000



Art. 393
MANUAL CONTROL
4,39,3D450



Art. 394
AIR CONTROL
4,39,4D450

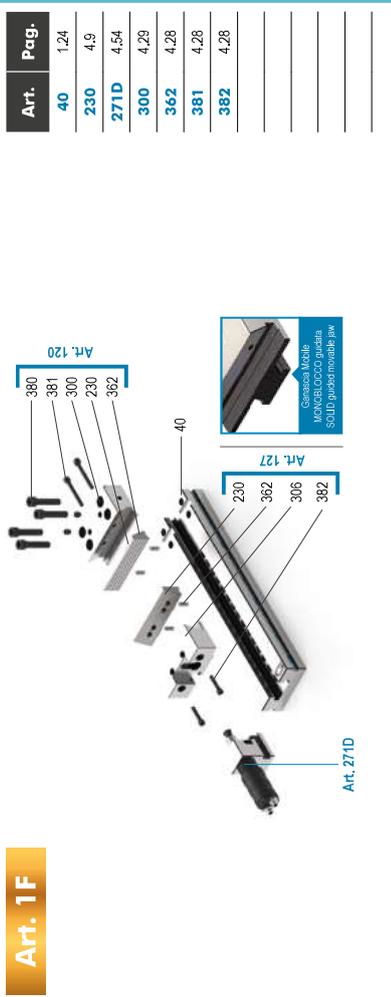


Art. 395
CNC CONTROL
4,39,5D450

Piston strokes are available at page 4,54
Art. 407C 4,40,7C500 4,40,7C600

Piston strokes are available at page 4,54
Art. 407D 4,40,7D500 4,40,7D600

Pneumo-hydraulic servo units (complete of hydraulic cylinder + support) for multiple clamping simultaneous or independent, from 2 to 6 vises. See from page 4,38 to 4,49
Art. 407E 4,40,7E500 4,40,7E600

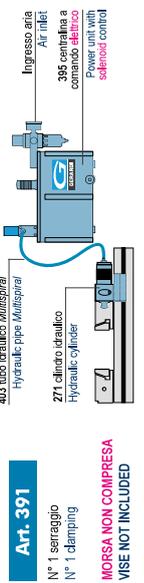


Art. 1F

COMANDO ELETTRICO - SOLENOID CONTROL

Tipo (grandezza) morsa / Vise type (size)

1	2	3	4	5	6



Art. 391
N° 1 serraggio
N° 1 clamping

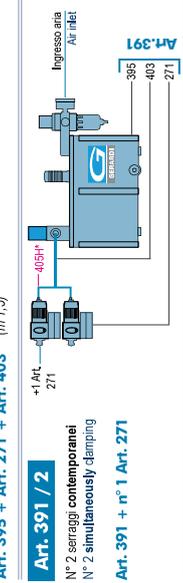
MORSA NON COMPRESA
VISE NOT INCLUDED

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

Ingresso aria
Air inlet

395 centralina a comando elettrico
Power unit with electric control

Cod. 4.39.11000 4.39.12000 4.39.13000 4.39.14000 4.39.15000 4.39.16000



Art. 391 / 3
N° 3 serraggi contemporanei
N° 3 simultaneously clamping

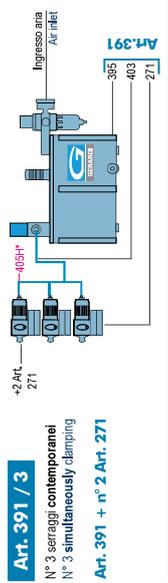
Art. 391 + n° 2 Art. 271

+2 Art. 271

Ingresso aria
Air inlet

395
403
271

Cod. 4.39.11003 4.39.12003 4.39.13003 4.39.14003 4.39.15003 4.39.16003



Art. 407A
Gruppo di serraggio indipendente
Independent clamping group

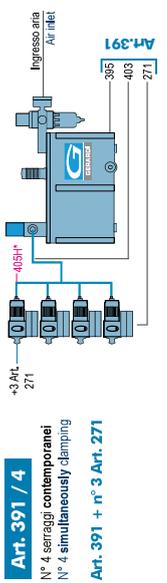
Art. 271 + Art. 398 + Art. 403 (m 1,5)

Ingresso aria
Air inlet

398
403
271

Pulsantiera 401
Pushbutton board
OPTIONAL

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



Art. 391A / 3
N° 3 serraggi indipendenti
N° 3 independent clamping

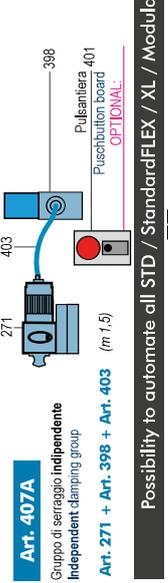
Art. 391 + n° 2 Art. 407A

+2 Art. 407A

Ingresso aria
Air inlet

395
403
271

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

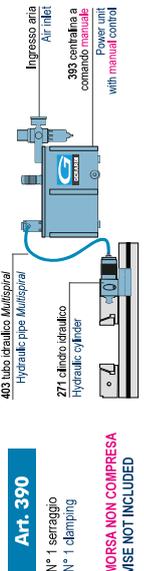


Possibilità di automatizzare all STD / StandardFLEX / XL / Modular Element vises. (Art. 1E & Art. 1F except)

COMANDO MANUALE - MANUAL CONTROL

Tipo (grandezza) morsa / Vise type (size)

1	2	3	4	5	6



Art. 390
N° 1 serraggio
N° 1 clamping

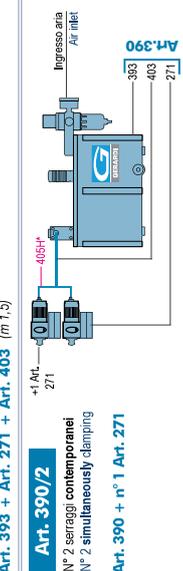
MORSA NON COMPRESA
VISE NOT INCLUDED

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

Ingresso aria
Air inlet

393 centralina a comando manuale
Power unit with manual control

Cod. 4.39.01000 4.39.02000 4.39.03000 4.39.04000 4.39.05000 4.39.06000



Art. 390/3
N° 3 serraggi contemporanei
N° 3 simultaneously clamping

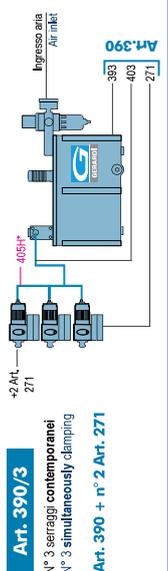
Art. 390 + n° 2 Art. 271

+2 Art. 271

Ingresso aria
Air inlet

393
403
271

Cod. 4.39.01003 4.39.02003 4.39.03003 4.39.04003 4.39.05003 4.39.06003



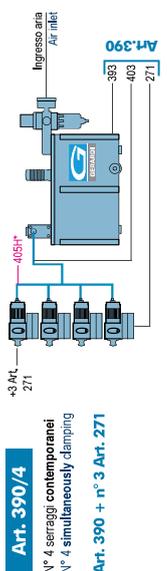
Art. 407
Gruppo di serraggio indipendente
Independent clamping group

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

Ingresso aria
Air inlet

397
403
271

Cod. 4.40.71000 4.40.72000 4.40.73000 4.40.74000 4.40.75000 4.40.76000



Art. 390A / 3
N° 3 serraggi indipendenti
N° 3 independent clamping

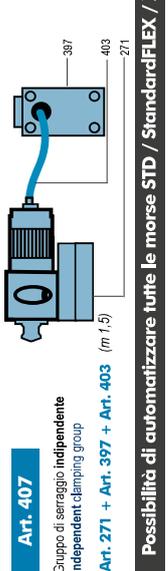
Art. 390 + n° 2 Art. 407

+2 Art. 407

Ingresso aria
Air inlet

393
403
271

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



Possibilità di automatizzare tutte le morse STD / StandardFLEX / XL / Elementi modulari. (Esclusi Art. 1E, Art. 1F)

COMANDO PNEUMATICO - PNEUMATIC CONTROL

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

Art. 392B
 402 Valvola pneumatica / Pneumatic valve
 271D cilindro idraulico / Hydraulic cylinder
 403 tubo idraulico Multispiral / Hydraulic pipe Multispiral

Ingresso aria / Air inlet
 384D centralina a comando pneumatico / Pneumatic control unit
 with air control valve
 Power unit
 402 tubo idraulico Multispiral / Hydraulic pipe Multispiral

MORSA NON COMPRESA / WISE NOT INCLUDED
Art. 394D + 271D + 402 + 403 (m 1,5)

Art. 392B / 2
 N° 2 serraggi contemporanei / N° 2 simultaneous clamping
Art. 392B + n° 1 Art.271D

Ingresso aria / Air inlet
 384D
 402
 403
 271D

* Non incluso (Pag. 4,52) / Not included (Pag. 4,52)

Art. 392B / 3
 N° 3 serraggi contemporanei / N° 3 simultaneous clamping
Art. 392B + n° 2 Art.271D

Ingresso aria / Air inlet
 384D
 402
 403
 271D

* Non incluso (Pag. 4,52) / Not included (Pag. 4,52)

Art. 392B / 4
 N° 4 serraggi contemporanei / N° 4 simultaneous clamping
Art. 392B + n° 3 Art.271D

Ingresso aria / Air inlet
 384D
 402
 403
 271D

* Non incluso (Pag. 4,52) / Not included (Pag. 4,52)

Art. 407E
 Gruppo di serraggi indipendenti / Independent clamping group
Art.271D + 396D + 402 + 403 (m 1,5)

402 Valvola pneumatica / Pneumatic valve

Art. 392C / 2
 N° 2 serraggi indipendenti / N° 2 independent clamping
Art. 392B + n° 1 Art. 407B

Ingresso aria / Air inlet
 384D
 402
 403
 271D

Art. 392C / 3
 N° 3 serraggi indipendenti / N° 3 independent clamping
Art. 392B + n° 2 Art. 407B

Ingresso aria / Air inlet
 384D
 402
 403
 271D

Art. 392C / 4
 N° 4 serraggi indipendenti / N° 4 independent clamping
Art. 392B + n° 3 Art. 407B

Ingresso aria / Air inlet
 384D
 402
 403
 271D

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 / Double manual control unit
 Pressione max. 450bar / Max pressure 450bar
 Con mantenimento e ripristino automatico della pressione desiderata / Automatic retention and reset of desired pressure
Art. 393D + 397D

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

Cod. 4,39,7D000

Art. 397D
 Blocco modulare per comando manuale aggiuntivo per ogni morsa extra / Modular block for manual control for each extra vise
Art. 397D + 397C

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

Cod. 4,39,7D000

Art. 394D
 Centralina a comando pneumatico remoto doppio (Tramite Art. 402 extra) - Pressione max. 450bar / Double remote pneumatic control (Through Art. 402 extra) - Max pressure 450bar
 Con mantenimento e ripristino automatico della pressione desiderata / Automatic retention and reset of desired pressure
Art. 394D + 396D

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

Cod. 4,39,4D450

Art. 396D
 Blocco modulare per comando pneumatico aggiuntivo per ogni morsa extra / Modular block for pneumatic control for each extra vise
Art. 396D + 396C

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

Cod. 4,39,6D000

Art. 395D
 Centralina a comando elettrico doppio / Double electrical control unit
 Pressione max. 450bar / Max pressure 450bar
 Con mantenimento e ripristino automatico della pressione desiderata / Automatic retention and reset of desired pressure
Art. 395D + 398D

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

Cod. 4,39,5D450

Art. 398D
 Blocco modulare per comando elettrico aggiuntivo per ogni morsa extra / Modular block for electric control for each extra vise
Art. 398D + 398C

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

Cod. 4,39,8D000

Art. 393D
 Centralina a comando manuale doppio / Double manual control unit
 Pressione max. 450bar / Max pressure 450bar
 Con mantenimento e ripristino automatico della pressione desiderata / Automatic retention and reset of desired pressure
Art. 393D + 397D

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

Cod. 4,39,3D450

Art. 397D
 Blocco modulare per comando manuale aggiuntivo per ogni morsa extra / Modular block for manual control for each extra vise
Art. 397D + 397C

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

Cod. 4,39,7D000

Art. 394D
 Centralina a comando pneumatico remoto doppio (Tramite Art. 402 extra) - Pressione max. 450bar / Double remote pneumatic control (Through Art. 402 extra) - Max pressure 450bar
 Con mantenimento e ripristino automatico della pressione desiderata / Automatic retention and reset of desired pressure
Art. 394D + 396D

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

Cod. 4,39,4D450

Art. 396D
 Blocco modulare per comando pneumatico aggiuntivo per ogni morsa extra / Modular block for pneumatic control for each extra vise
Art. 396D + 396C

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

Cod. 4,39,6D000

Art. 395D
 Centralina a comando elettrico doppio / Double electrical control unit
 Pressione max. 450bar / Max pressure 450bar
 Con mantenimento e ripristino automatico della pressione desiderata / Automatic retention and reset of desired pressure
Art. 395D + 398D

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

Cod. 4,39,5D450

Art. 398D
 Blocco modulare per comando elettrico aggiuntivo per ogni morsa extra / Modular block for electric control for each extra vise
Art. 398D + 398C

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

Cod. 4,39,8D000

Art. 270A

 Attacco idraulico rapido femmina
 Quick hydraulic female connection
 Cod. 4.27.0A000

Art. 270B

 Innesco idraulico rapido maschio
 Quick hydraulic male connection
 Cod. 4.27.0B000

Art. 1D03

 Raccordo idraulico a "L" maschio cilindrico Ø6 - 1/4" Gas
 "L" hydraulic male parallel adaptor Ø6 - 1/4" Gas
 Cod. 9.ID.03000

Art. 1D04

 Raccordo idraulico a "T" centrale maschio cilindrico Ø6 - 1/4" Gas
 "T" hydraulic male parallel adaptor Ø6 - 1/4" Gas
 Cod. 9.ID.04000

Art. 1D05

 Riduzione idraulica Ø6 - 1/4" Gas
 Hydraulic straight male adaptor Ø6 - 1/4" Gas
 Cod. 9.ID.05000

Art. 505

 Pressostato 400bar
 Pressure switch 400bar
 Cod. 0.50.50000

Art. 277A

 Indicatore di forza KN
 Force indicator KN
 Cod. 4.27.2A600

Art. 272

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

Bar	Max 700
KN	Max 111,3
Cod.	4.27.2B000

Cod. 4.35.90000

Cod. 4.40.00000

Cod. 4.40.10000

Cod. 4.40.20000

Cod. 9.40.25000

Ø 6
 Cod. 4.40.5H000

Cod. 4.40.30000
 € 162

Cod. 4.40.40000



Art. 399
 Gruppo filtro riduttore più lubrificatore
 Compressed air preparation unit

Art. 400
 Pedale bistabile
 Two position foot pedal

Art. 401
 Pulsantiera per 1 azionamento
 Pushbutton board for one control operation

Art. 402
 Valvola pneumatica frontale, 2 vie
 Frontal pneumatic valve, 2 ways

Art. 402/90
 Distributore leva angolare a 90°, 3 vie
 90° angular valve, 3 ways

Art. 405H
 Per ogni metro extra / For each extra meter: € 10
 Conduttura Tubolare in acciaio zincato (m 1,0)
 Suitable galvanized steel pipe (m 1,0)

Art. 403
 Per ogni metro extra / For each extra meter: € 116
 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)

Art. 404
 Manometro 400bar
 Oil pressure gauge 400bar

Con la ventolina a DOPPIO EFFETTO (nesso rapido NON a ridosso)
 WITH DOUBLE EFFECT power unit the quick connection is NOT flared

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 SEMPLE EFFETTO - SIMPLE EFFECT	Cod. 2,27.11000	2,27.12000	2,27.13000	2,27.14000	2,27.15000	2,27.16000
Art. 271D 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
Art. 283A Supporto di serraggio per cilindro idraulico Clamping support for hydraulic cylinder	Cod. 2,28.3A100	2,28.3A200	2,28.3A300	2,28.3A400	2,28.3A500	2,28.3A600
Art. 285 Cilindro idraulico a semplice effetto. Serraggio idraulico e apertura meccanica Hydraulic cylinder single acting. Hydraulic clamping and mechanical opening	Pressione MAX MAX pressure	450 bar - 6525 psi				
	Ø Pistone Ø Piston	20	30	30	36	36
	Area efficace (cm2) effective area (in2)	3,14	7,07	7,07	10,17	10,17
	Cod. 2,28.51000	2,28.52000	2,28.53000	2,28.53000	2,28.55000	2,28.55000
Art. 569 Cilindro idraulico a doppio effetto. Apertura e chiusura idrauliche Hydraulic cylinder double acting. Hydraulic opening and clamping	Pressione MAX MAX pressure	450 bar - 6525 psi				
	Ø Pistone Ø Piston	20	30	30	32	32
	Area efficace (cm2) effective area (in2)	3,14	7,07	7,07	8,04	8,04
	Cod. 1,56.91000	1,56.92000	1,56.93000	1,56.93000	1,56.95000	1,56.95000
	Corsa Stroke	20	33	33	40	40

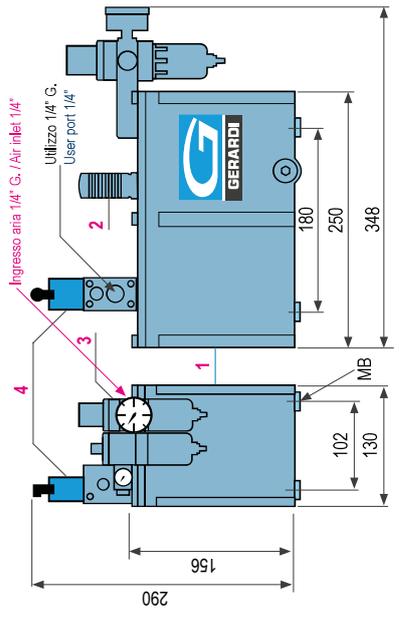

Esempi di applicazione / Typical arrangements

 Morse Modular di Precisione accoppiabili ed allineabili per serraggi multipli Pneumoidraulici (Serie Standard/Matic)
 Precision Modular vises matchable for gang operations and pneumohydraulic clamping (Standard/Matic series)

**SERRAGGIO IDRAULICO
HYDRAULIC CLAMPING**

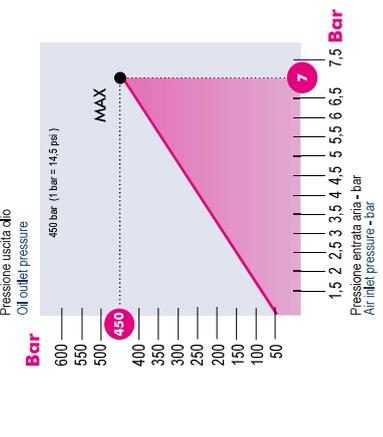
La centralina per serraggi idraulici ed i suoi derivati, nasce per soddisfare tutte le esigenze connesse all'azionamento di cilindri oleodinamici ove sia richiesta bassa portata ed elevate pressioni. La particolare forma costruttiva della centralina permette di ottenere, in ingombri estremamente contenuti, un impianto di elevate prestazioni. L'elemento pompante utilizzato consente, grazie ai particolari criteri costruttivi, di collocare la centralina in ambienti allarmati 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 h-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.



- 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


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 / 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	4

Diagrammi di serraggio / Clamping diagrams

StandardMatic

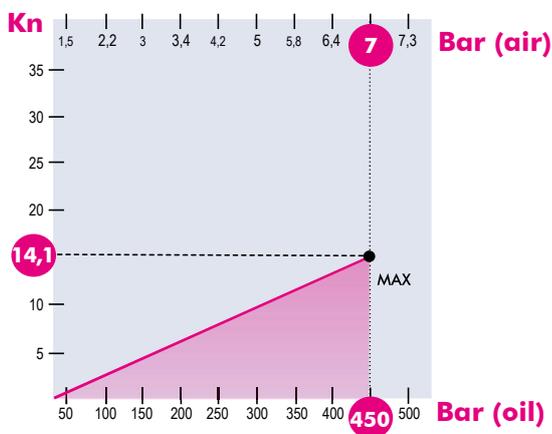
Diagrammi di serraggio pneumoidraulici ed elettroidraulici

Diagram pneumo-hydraulic and electro-hydraulic clamping

Morse tipo 1 Vises type

1

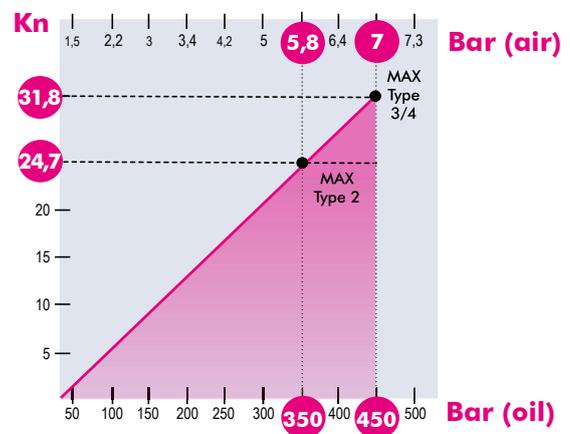
Cilindro idraulico Art. 285 - 569 Ø interno 20 mm - Superficie efficace 3,14 cm²
 Hydraulic cylinder Art. 285 - 569 Cylinder I.D. 20 mm - Effective area 3,14 cm²



Morse tipo 2-3-4 Vises type

2-3-4

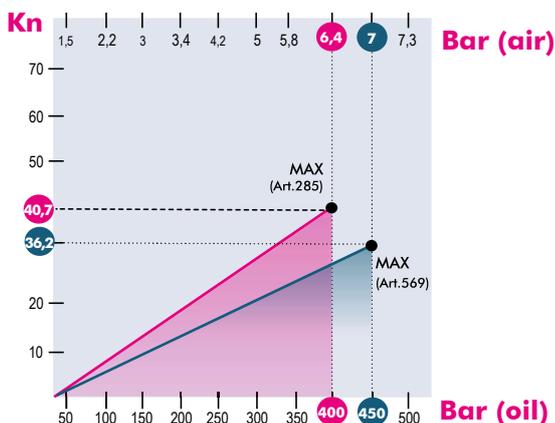
Cilindro idraulico Art. 285 - 569 Ø interno 30 mm - Superficie efficace 7,07 cm²
 Hydraulic cylinder Art. 285 - 569 Cylinder I.D. 30 mm - Effective area 7,07 cm²



Morse tipo 5-6 Vises type

5-6

Cilindro idraulico Art. 285 Ø interno 36 mm - Superficie efficace 10,17 cm²
 Cilindro idraulico Art. 569 Ø interno 32 mm - Superficie efficace 8,04 cm²
 Hydraulic cylinder Art. 285 Cylinder I.D. 36 mm - Effective area 10,17 cm²
 Hydraulic cylinder Art. 569 Cylinder I.D. 32 mm - Effective area 8,04 cm²



Art. 393

Art. 393D

Serraggi tramite gruppi di comando pneumatici e idraulici

I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con le morse di varia grandezza (da 1 a 6), provviste di vari dispositivi di bloccaggio pneumoidraulici ed elettroidraulici, in funzione della pressione dei fluidi (aria e olio). Con centralina pneumoidraulica (Max pressione 450bar)

Clamping 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 pneumo-hydraulic and electro-hydraulic blocking devices, as a function of the fluid pressure (air or oil). With pneumo-hydraulic power unit (Max pressure 450bar)

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.