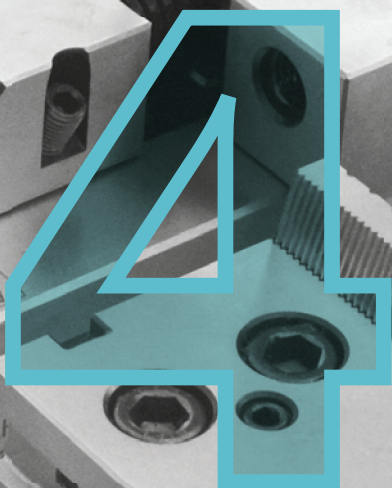




*Parallel plates, stack type, special
jaws and spindle clamping devices*

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

Morsa / Vise Art. 1

Cod. 0.98.10000



Art. 985

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

Morsa / Vise Art. 1A

Cod. 0.98.50000



Art. 1 - All'Interno - Inside:

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

Art. 1A - All'Interno - Inside:

Art.138	Art.212	Art.230B	Art.230C	Art.230D	Art.230E
Art.230F	Art.230G	Art.230H	Art.230M	Art.313	Art.314
Art.271	Art.297	Art.298	Art.370	Art.375	Art.376

SIMBOLOGIA DATI TECNICI

TECHNICAL DATA ICONS

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

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. Costruzione completamente in speciali leghe di acciaio ad alta resistenza, normalizzato, cementato e temprato con durezza 60 ± 2 HRC. Tutto ciò al fine di conferire massima rigidità, elevate prestazioni e usura inesistente. A riprova di tutto ciò assicuriamo **5 ANNI DI GARANZIA** su tutto il programma morse e organi meccanici in genere.

Thanks to the manufacturing with only the most suitable materials and to the structure of the vise components (developed using computer customised softwares and the experience gained during many years spent working on the specific field). High alloyed quality resistance steel, case hardened HRC 60 ± 2 , is used in manufacturing all the Gerardi vises and accessories in order to give maximum rigidity, high performances and no wear. As evidence we give **5 YEARS WARRANTY** on all the vises and mechanical components.

MODULARITÀ / MODULARITY

Tutte le morse 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 larghezza di presa è la base (la cui lunghezza determina la massima apertura della morse), 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 girevole, 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 Your 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 morse da 150 mm di larghezza ganasce) è tale da consentire un facile trasferimento da una macchina all'altra.

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

SERRAGGI RAPIDI / QUICK CLAMPING

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

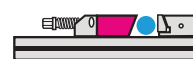
Thanks to the clamping device sliding in the vise base slide (compact rack type) till the proximity of the workpiece. The clamping is completed with the main screw. Besides the manual mechanic system, 4 further interchangeable and independent clamping systems are available: 1 - Hydraulic / 2 - Pneumatic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



Art.131 / 138 / 150

Ganasce Sovrapponibili

Stack type jaws



Art.210

Ganasce mobili guidate monoblocco per pezzi tondi

Solid guided movable jaws for round workpieces



Art.132 / 133

Prolunga per ganasce mobili e fisse

Extension for movable and fixed jaws



Art.212

Ganascia mobile intermedia con doppio gradino

Intermediate movable jaws with double step



Art.257 / 258 / 271

Gruppi di serraggio

Spindle clamping devices

Sicuramente uno dei punti di forza del sistema modulare GERARDI consiste nell'ampissima scelta di componentistica ed accessori nonché nel continuo investimento e sviluppo nei più avanzati concetti e soluzioni originali. Il programma che viene presentato nelle pagine seguenti fa parte di un sistema modulare di bloccaggio fra i più ampi e completi a livello mondiale che permette realmente di trasformare in standard ciò che sembrerebbe essere speciale (oltre 1000 articoli moltiplicati per 6 grandezze diverse). Il segreto di tutto ciò sta proprio nella modularità del sistema che consente (con l'aggiunta di alcuni componenti) una più ampia gamma di impieghi.

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.



SCAN IT TO WATCH THE



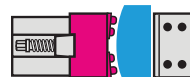
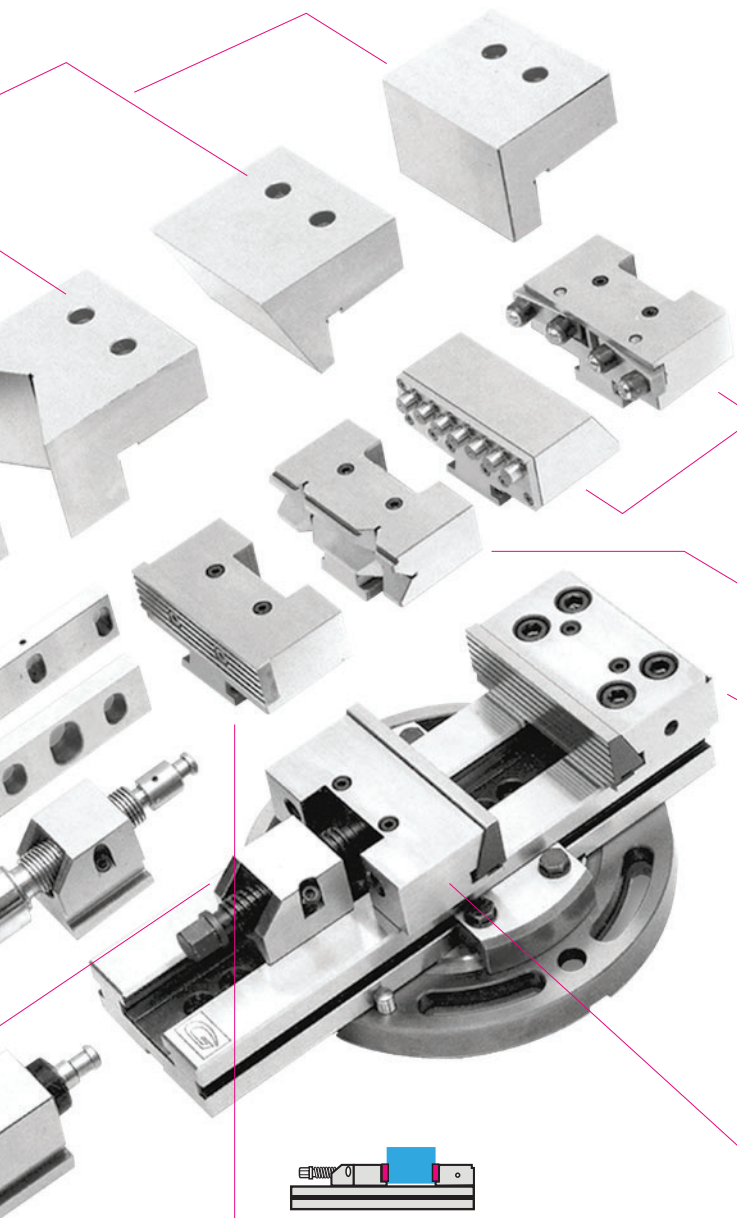
VIDEO PRESENTATION



*Parallele, ganasce sovrapponibili,
speciali e gruppi di serraggio
intercambiabili*

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

4



Art.190 / 188

Ganasce mobili guidate monoblocco

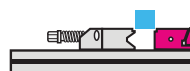
Solid guided movable jaws



Art.217

Ganasce mobili guidate monoblocco prismatiche (per serraggio pezzi piatti e tondi)

Solid guided movable prismatic jaws (for plates & round workpieces clamping)



Art.120

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

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



Art.127

Ganascia mobili guidate monoblocco costruite con un angolo di spinta verso il basso.

Guided movable jaws built in one solid body with a pull down angle



Art.246

Ganasce mobili guidate monoblocco con piastre piane

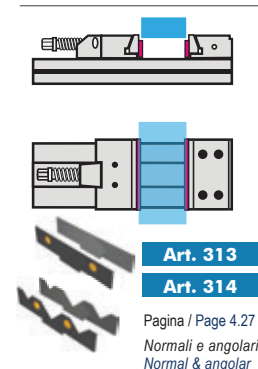
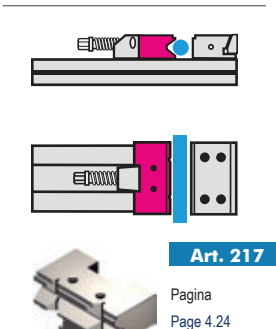
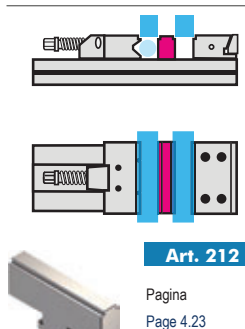
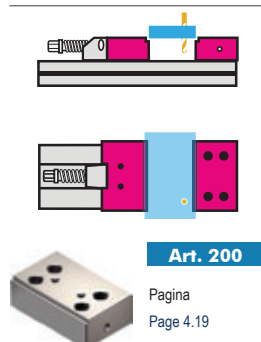
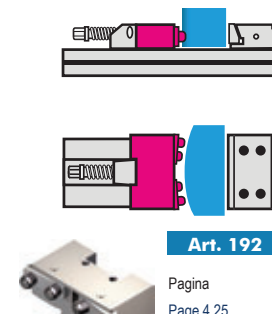
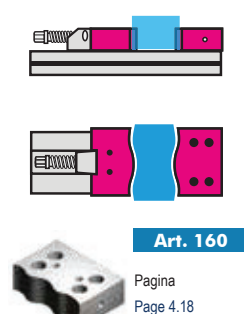
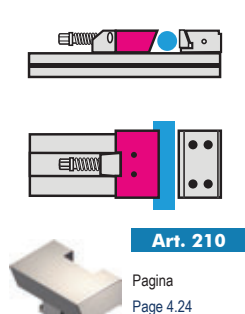
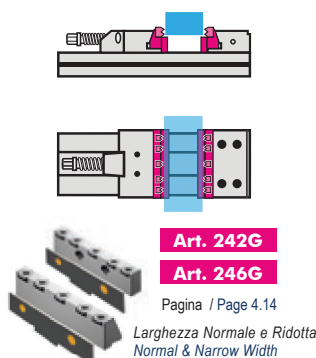
Solid guided movable jaw with straight plates

Parti di ricambio / Spare parts

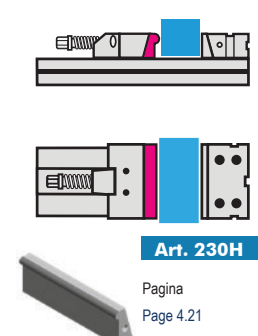
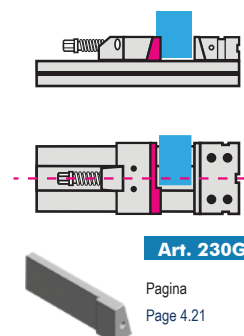
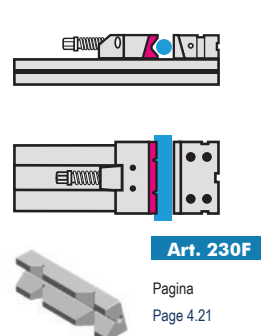
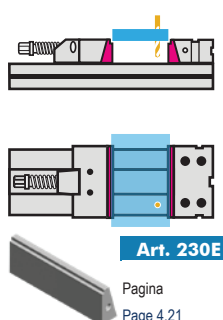
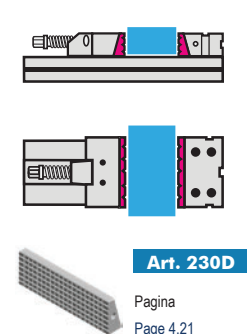
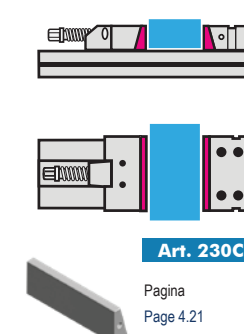
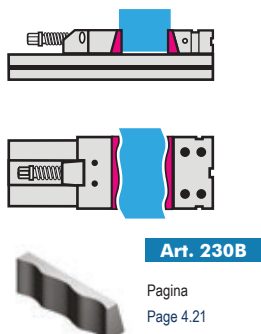
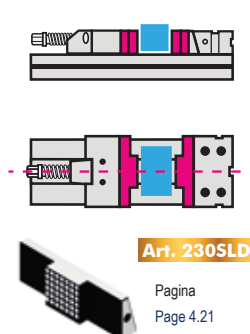
Standard / StdFLEX / XL

Piastre ganasce discendenti intercambiabili manualmente

Pull down jaws plates interchangeable by hand



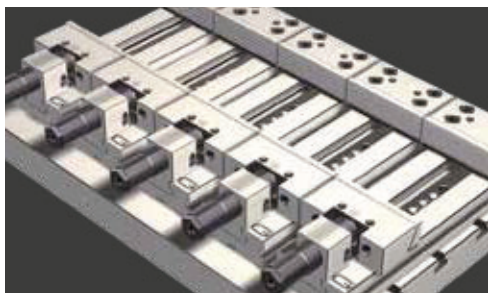
PIASTRE GANASCE COMPATIBILI **SOLO** CON MORSE STDFLEX JAW PLATES COMPATIBLE **ONLY** WITH STDFLEX VISES



Soluzioni personalizzate / Customized solutions

Standard / StdFLEX / XL

Soluzioni personalizzate a tutti i vostri problemi di serraggio
Customized solutions for all your clamping problems

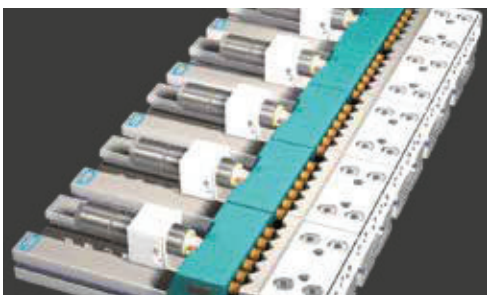


Serraggi idraulici

Hydraulic clamping

Morse Modulari di Precisione accoppiabili ed allineabili 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.

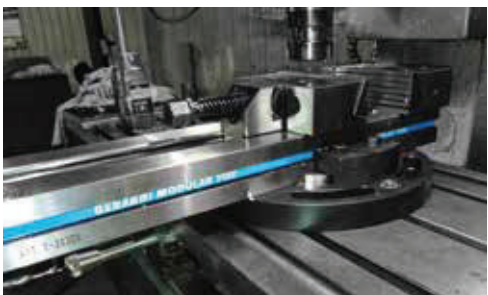


Morse StandardMatic

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

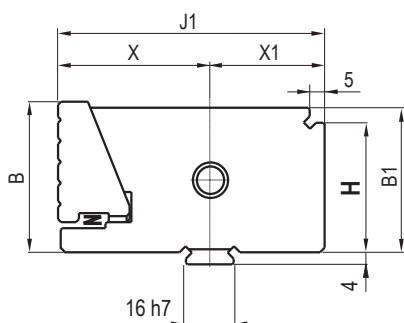
Morsa Standard con piastre ganasce a gradino con inserti Grip per un serraggio più efficace

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

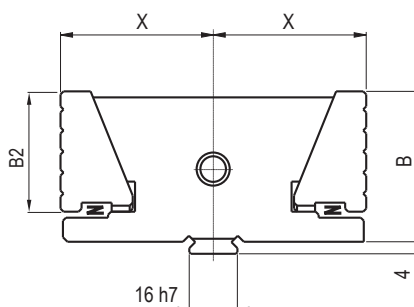
GANASCE STANDARD / STANDARD JAWS

Tipo (grandezza) morsa / Vise type (size)		1	2	3	4	5	6	
Art. 120 W - W3 Ganascia fissa. Larghezza normale (W) - (W3) Fixed jaw. Normal width (W) - (W3)	 Jaw body width W1 - W3 Jaw plate width W-W2	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 W - W3 Ganascia fissa doppia. Larghezza normale (W) - (W3) Double fixed jaw. Normal width (W) - (W3)	 W1 - W3 W-W2	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)	 W1 - W3 W-W2	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)	 W1 - W3 W-W2 Y	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)	 W1 - W3 W-W2	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)	 W1 - W3 W-W2 Y-1	Cod.	2.12.81000	2.12.82000	2.12.83000	2.12.84000	2.12.85000	2.12.86000

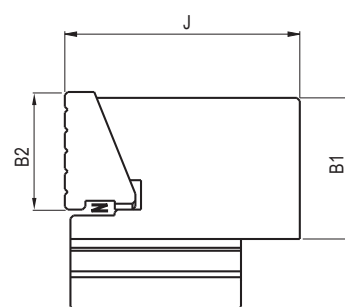
Art. 120



Art. 123



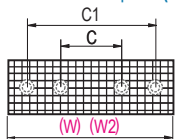
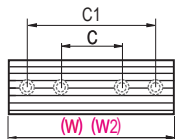
Art. 127



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	28	41	51	61	71
Y - 1	20	27	40	50	60	70
B	30	40	50	60	65	80
B1	28	38	48	58	63	78
B2	24,5	32	39	43	53	63
* H	23	33	43	53	53	68
J	50	60	80	90	100	120
X	42,4	42,4	50,9	55,4	66,4	73,1
X1	35,5	35,5	38,5	41,5	47	47
J1	77,9	77,9	89,4	96,9	113,4	120,1

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

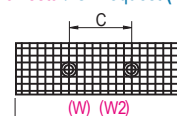
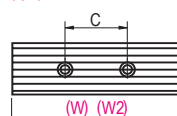
RICAMBI PER GANASCE STANDARD / SPARES FOR STANDARD JAWS

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

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

Art. 231
Art. 231S

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

Standard
A richiesta / On request (EXTRA)

Art. 248 (W)
Art. 248S (W)

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

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

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

PIASTRE LISCE TEMPRATE
HARDENED SMOOTH JAW PLATES

Fornibili a richiesta 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. 232 (W)

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

Art. 233 (W2)

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

Art. 250 (W)

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

Art. 251 (W2)

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

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

Fornibili a richiesta 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. 234 (W)

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

Art. 235 (W2)

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

Art. 252 (W)

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

Art. 253 (W2)

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

€ cad / each
59
64
76
93
130
174

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

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

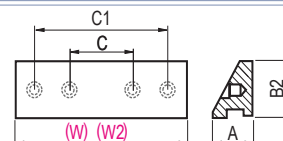
Cod. Art. 231	1.65.11000	1.65.21000	1.65.31000	1.65.41000	1.65.51000	1.65.61000
Cod. Art. 231S	4.23.1S100	4.23.1S200	4.23.1S300	4.23.1S400	4.23.1S500	4.23.1S600

ATTENZIONE - ATTENTION:

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

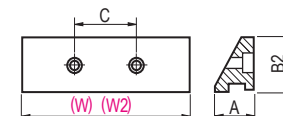
Cod. Art. 248	1.65.14000	1.65.24000	1.65.34000	1.65.44000	1.65.54000	1.65.64000
Cod. Art. 248S	4.24.8S100	4.24.8S200	4.24.8S300	4.24.8S400	4.24.8S500	4.24.8S600

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



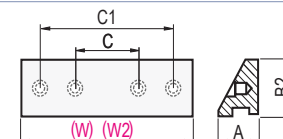
Cod. Art. 232	1.65.10100	1.65.20100	1.65.30100	1.65.40100	1.65.50100	1.65.60100
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Cod. Art. 233	1.65.11100	1.65.21100	1.65.31100	1.65.41100	1.65.51100	1.65.61100
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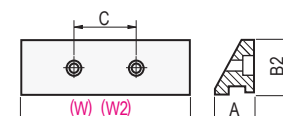
Cod. Art. 250	1.65.14100	1.65.24100	1.65.34100	1.65.44100	1.65.54100	1.65.64100
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Cod. Art. 251	1.65.15100	1.65.25100	1.65.35100	1.65.45100	1.65.55100	1.65.65100
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Cod. Art. 234	1.65.10200	1.65.20200	1.65.30200	1.65.40200	1.65.50200	1.65.60200
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Cod. Art. 235	1.65.11200	1.65.21200	1.65.31200	1.65.41200	1.65.51200	1.65.61200
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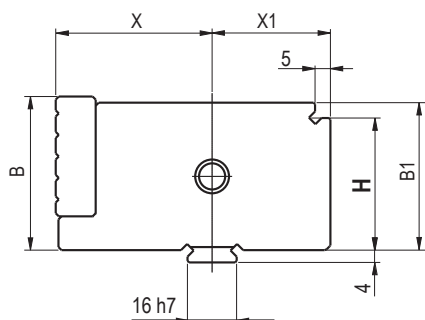
Cod. Art. 252	1.65.14200	1.65.24200	1.65.34200	1.65.44200	1.65.54200	1.65.64200
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Cod. Art. 253	1.65.15200	1.65.25200	1.65.35200	1.65.45200	1.65.55200	1.65.65200
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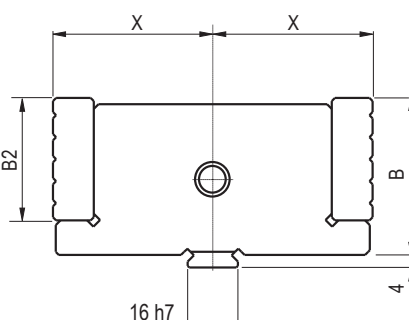
GANASCE CON PIASTRE PIANE / STRAIGHT PLATE JAWS

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 140 W - W3 Ganasce fissa. Larghezza normale (W) - (W3) Fixed jaw. Normal width (W) - (W3)	Cod. 2.14.01000 	Cod. 2.14.02000 	Cod. 2.14.03000 	Cod. 2.14.04000 	Cod. 2.14.05000 	Cod. 2.14.06000
Art. 141 W2 - W1 Ganasce fissa. Larghezza ridotta rettificata (W2) - (W1) Fixed jaw. Narrow width ground (W2) - (W1)	Cod. 2.14.11000 	Cod. 2.14.12000 	Cod. 2.14.13000 	Cod. 2.14.14000 	Cod. 2.14.15000 	Cod. 2.14.16000
Art. 143 W - W3 Ganasce fissa doppia. Larghezza normale (W) - (W3) Double fixed jaw. Normal width (W) - (W3)	Cod. 2.14.31000 	Cod. 2.14.32000 	Cod. 2.14.33000 	Cod. 2.14.34000 	Cod. 2.14.35000 	Cod. 2.14.36000
Art. 144 W2 - W1 Ganasce fissa doppia. Larghezza ridotta rettificata (W2) - (W1) Double fixed jaw. Narrow width ground (W2) - (W1)	Cod. 2.14.41000 	Cod. 2.14.42000 	Cod. 2.14.43000 	Cod. 2.14.44000 	Cod. 2.14.45000 	Cod. 2.14.46000
Art. 146 W - W3 Ganasce mobile monoblocco guidata. Larghezza normale (W) - (W3) Guided movable solid jaw. Normal width (W) - (W3)	Cod. 2.14.61000 	Cod. 2.14.62000 	Cod. 2.14.63000 	Cod. 2.14.64000 	Cod. 2.14.65000 	Cod. 2.14.66000
Art. 147 W2 - W1 Ganasce mobile monoblocco guidata. Larghezza ridotta (W2) - (W1) Guided movable solid jaw. Narrow width (W2) - (W1)	Cod. 2.14.71000 	Cod. 2.14.72000 	Cod. 2.14.73000 	Cod. 2.14.74000 	Cod. 2.14.75000 	Cod. 2.14.76000
Art. 148 W - W3 Ganasce mobile monoblocco oscillante. Larghezza normale (W) - (W3) Floating movable solid jaw. Normal width (W) - (W3)	Cod. 2.14.81000 	Cod. 2.14.82000 	Cod. 2.14.83000 	Cod. 2.14.84000 	Cod. 2.14.85000 	Cod. 2.14.86000
Art. 149 W2 - W1 Ganasce mobile monoblocco oscillante. Larghezza ridotta (W2) - (W1) Floating movable solid jaw. Narrow width (W2) - (W1)	Cod. 2.14.91000 	Cod. 2.14.92000 	Cod. 2.14.93000 	Cod. 2.14.94000 	Cod. 2.14.95000 	Cod. 2.14.96000

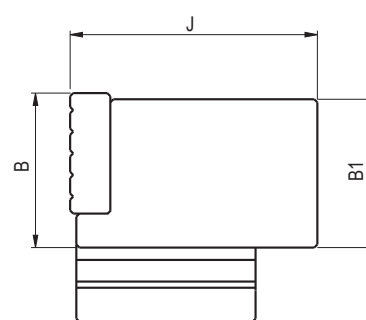
Art. 140



Art. 143



Art. 146



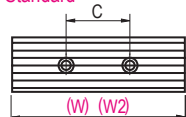
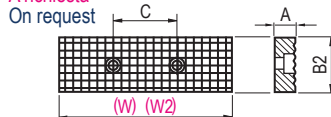
Tipo / Type	1	2	3	4	5	6
W = Jaw plate	100	125	150	175	200	300
W1 = Jaw body	75	95	125	145	170	195
W2 = Jaw plate	74	94	124	144	169	194
W3 = Jaw body	96	121	146	171	196	296
Y	21	28	41	51	61	71
Y1	20	27	40	50	60	70
B	30	40	50	60	65	80
B1	28	38	48	58	63	78
B2	24,5	32	40	43	48	63
* H	23	33	43	53	53	68
J	50	60	80	90	100	120
X	42,4	42,4	50,9	55,4	66,4	73,1
X1	35,5	35,5	38,5	41,5	47	47

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

RICAMBI PER GANASCE CON PIASTRE PIANE / SPARES FOR STRAIGHT JAW PLATES

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

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

Standard

A richiesta
 On request

Art. 242

(W)

Art. 242S

(W)

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

Art. 243

(W2)

Art. 243S

(W2)

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


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

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

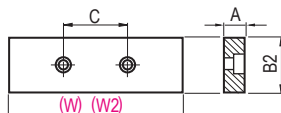
Cod. Art. 242	1.65.16000	1.65.26000	1.65.36000	1.65.46000	1.65.56000	1.65.66000
Cod. Art. 242S	4.24.2S100	4.24.2S200	4.24.2S300	4.24.2S400	4.24.2S500	4.24.2S600

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

PIASTRE PIANE LISCE TEMPRATE
HARDENED SMOOTH STRAIGHT JAW PLATES

Fornibili a richiesta 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)

Art. 245

(W2)

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

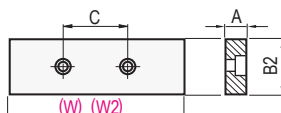
Cod. Art. 244	4.24.41000	4.24.42000	4.24.43000	4.24.44000	4.24.45000	4.24.46000
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Cod. Art. 245	4.24.51000	4.24.52000	4.24.53000	4.24.54000	4.24.55000	4.24.56000
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PIASTRE PIANE IN ACCIAIO LAVORABILE (DOLCE)
MACHINEABLE STEEL STRAIGHT JAW PLATES (SOFT HRC)

Fornibili a richiesta 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)

Art. 247

(W2)

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

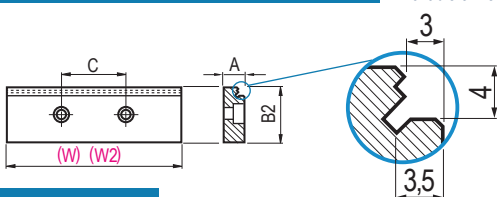
Cod. Art. 246	1.65.16200	1.65.26200	1.65.36200	1.65.46200	1.65.56200	1.65.66200
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Cod. Art. 247	1.65.17200	1.65.27200	1.65.37200	1.65.47200	1.65.57200	1.65.67200
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PIASTRE PIANE TEMPRATE GRIP
HARDENED STRAIGHT JAW PLATES GRIP

Fornibili a richiesta 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


PIASTRE GANASCE "GRIP" JAW PLATES
MINOR SUPERFICIE DI CONTATTO + PRESSIONE DI SERRAGGIO
LESS SURFACE CONTACT + CLAMPING PRESSURE
Art. 246T

(W)

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

Art. 247T

(W2)

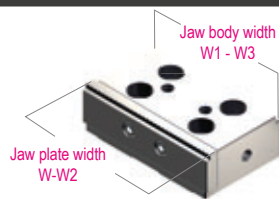
 Per ganascia fissa e mobile - Art. 141, 144, 147 - Larghezza ridotta (W2)
 For fixed and movable jaw - Art. 141, 144, 147 - Narrow width (W2)

Cod. Art. 246T	4.24.6T100	4.24.6T200	4.24.6T300	4.24.6T400	4.24.6T500	4.24.6T600
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Cod. Art. 247T	4.24.7T100	4.24.7T200	4.24.7T300	4.24.7T400	4.24.7T500	4.24.7T600
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GANASCE CON PIASTRE PIANE GRIP / STRAIGHT PLATE GRIP JAWS

Tipo (grandezza) morsa / Vise type (size)
NEW
Art. 140T W - W3

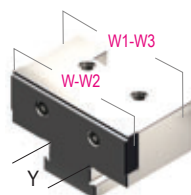
 Ganasia fissa GRIP. **Larghezza normale (W) - (W3)**
 Fixed GRIP jaw. **Normal width (W) - (W3)**

Art. 141T W2 - W1

 Ganasia fissa GRIP.
Larghezza ridotta rettificata (W2) - (W1)
 Fixed GRIP jaw. **Narrow width ground (W2) - (W1)**
Art. 143T W - W3

 Ganasia fissa doppia. **Larghezza normale (W) - (W3)**
 Double fixed jaw. **Normal width (W) - (W3)**

Art. 144T W2 - W1

 Ganasia fissa doppia. **Larghezza ridotta rettificata (W2) - (W1)**
 Double fixed jaw. **Narrow width ground (W2) - (W1)**
Art. 146T W - W3

 Ganasia mobile monoblocco guidata.
Larghezza normale (W) - (W3)
 Guided movable solid jaw. **Normal width (W) - (W3)**

Art. 147T W2 - W1

 Ganasia mobile monoblocco guidata. **Larghezza ridotta (W2) - (W1)**
 Guided movable solid jaw. **Narrow width (W2) - (W1)**

Cod.	2.14.0T100	2.14.0T200	2.14.0T300	2.14.0T400	2.14.0T500	2.14.0T600

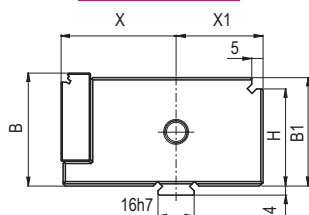
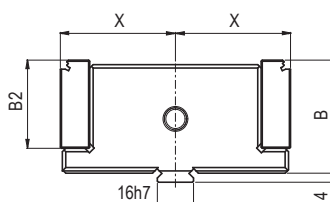
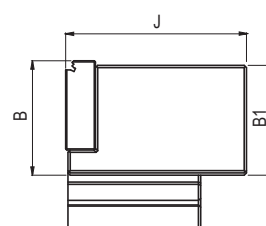
Cod.	2.14.1T100	2.14.1T200	2.14.1T300	2.14.1T400	2.14.1T500	2.14.1T600

Cod.	2.14.3T100	2.14.3T200	2.14.3T300	2.14.3T400	2.14.3T500	2.14.3T100

Cod.	2.14.4T100	2.14.4T200	2.14.4T300	2.14.4T400	2.14.4T500	2.14.4T600

Cod.	2.14.6T100	2.14.6T200	2.14.6T300	2.14.6T400	2.14.6T500	2.14.6T600

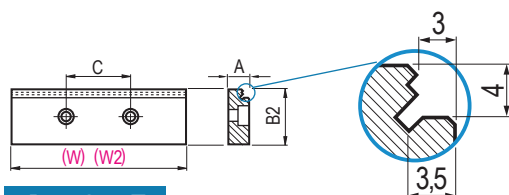
Cod.	2.14.7T100	2.14.7T200	2.14.7T300	2.14.7T400	2.14.7T500	2.14.7T600

Art. 140T

Art. 143T

Art. 146T


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

Tipo / Type	1	2	3	4	5	6
W = 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	28	41	51	61	71
B	30	40	50	60	65	80
B1	28	38	48	58	63	78
B2	24,5	32	40	43	48	63
* H	23	33	43	53	53	68
J	50	60	80	90	100	120
X	42,4	42,4	50,9	55,4	66,4	73,1
X1	35,5	35,5	38,5	41,5	47	47

PIASTRE PIANE TEMPERATE GRIP
HARDENED STRAIGHT JAW PLATES GRIP

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

Art. 246T (W)

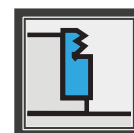
 Per ganasce fissa e mobile - Art. 140, 143, 146 - Larghezza normale (W)
 For fixed and movable jaw - Art. 140, 143, 146 - Normal width (W)

Art. 247T (W2)

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

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

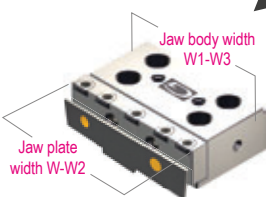
Cod. Art. 247T	4.24.7T100	4.24.7T200	4.24.7T300	4.24.7T400	4.24.7T500	4.24.7T600


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

GANASCE CON PIASTRE CON INSERTI GRIP / STRAIGHT PLATE JAWS WITH GRIP INSERTS

Tipo (grandezza) morsa / Vise type (size)
NEW
1 2 3 4 5 6
Art. 140G W

Ganascia fissa completa di parallela magnetica. **Larghezza normale (W)** - (W3)
 Fixed jaw with magnetic parallel. **Normal width (W)** - (W3)

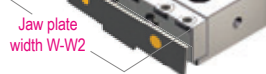


Cod.	2.14.0G100	2.14.0G200	2.14.0G300	2.14.0G400	2.14.0G500	2.14.0G600
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Art. 141G W2

Ganascia fissa completa di parallela magnetica. **Larghezza ridotta rettificata (W2)** - (W1)
 Fixed jaw complete with magnetic parallel. **Narrow width ground (W2)** - (W1)

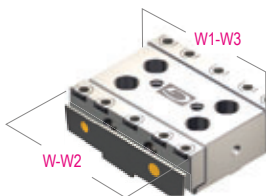


Cod.	2.14.1G100	2.14.1G200	2.14.1G300	2.14.1G400	2.14.1G500	2.14.1G600
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Art. 143G W

Ganascia fissa doppia completa di parallela magnetica. **Larghezza normale (W)** - (W3)
 Double fixed jaw complete with magnetic parallel. **Normal width (W)** - (W3)

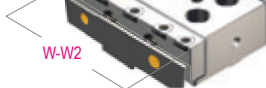


Cod.	2.14.3G100	2.14.3G200	2.14.3G300	2.14.3G400	2.14.3G500	2.14.3G600
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Art. 144G W2

Ganascia fissa doppia completa di parallela magnetica. **Larghezza ridotta rettificata (W2)** - (W1)
 Double fixed jaw complete with magnetic parallel. **Narrow width ground (W2)** - (W1)

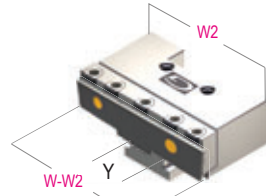


Cod.	2.14.4G100	2.14.4G200	2.14.4G300	2.14.4G400	2.14.4G500	2.14.4G600
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Art. 146G W

Ganascia mobile monoblocco guidata completa di parallela magnetica. **Larghezza normale (W)**
 Guided movable solid jaw. Complete with magnetic parallel. **Normal width (W)**



Cod.	2.14.6G100	2.14.6G200	2.14.6G300	2.14.6G400	2.14.6G500	2.14.6G600
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Art. 147G W2

Ganascia mobile monoblocco guidata completa di parallela magnetica. **Larghezza ridotta (W2)**
 Guided movable solid jaw complete with magnetic parallel. **Narrow width (W2)**

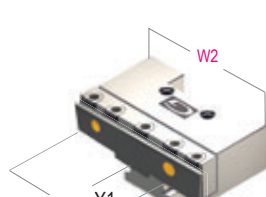


Cod.	2.14.7G100	2.14.7G200	2.14.7G300	2.14.7G400	2.14.7G500	2.14.7G600
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Art. 148G W

Ganascia mobile monoblocco oscillante completa di parallela magnetica. **Larghezza normale (W)**
 Floating movable solid jaw complete with magnetic parallel. **Normal width (W)**



Cod.	2.14.8G100	2.14.8G200	2.14.8G300	2.14.8G400	2.14.8G500	2.14.8G600
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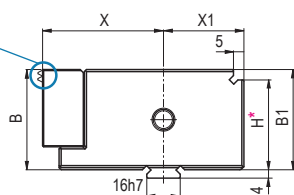
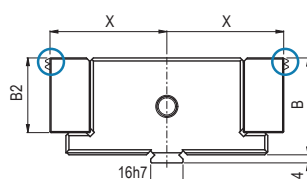
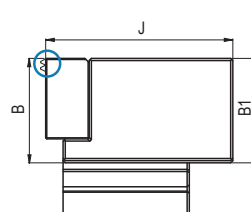
Art. 149G W2

Ganascia mobile monoblocco oscillante completa di parallela magnetica. **Larghezza ridotta (W2)**
 Floating movable solid jaw complete with magnetic parallel. **Narrow width (W2)**



Cod.	2.14.9G100	2.14.9G200	2.14.9G300	2.14.9G400	2.14.9G500	2.14.9G600
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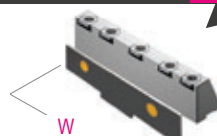

Art. 140G

Art. 143G

Art. 146G


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

Tipo / Type	1	2	3	4	5	6
W = 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	28	41	51	61	71
Y1	20	27	40	50	60	70
B	28	38	48	58	63	78
B1	28	38	48	58	63	78
B2	24,5	30	37	42	46	54
* H	23	33	43	53	53	68
J	58	68	87	97	102	122
X	50,4	50,4	57,9	62,4	68,4	75,1
X1	35,5	35,5	38,5	41,5	47	47

PIASTRE GANASCE CON INSERTI GRIP E PARALLELA MAGNETICA

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

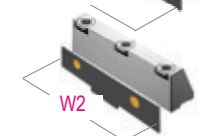
 Piastra Ganasce con Inserti GRIP. **Larghezza normale (W)**
 Jaw plate with GRIP insert. **Normal width (W)**


Cod. 1.24.2G100 1.24.2G200 1.24.2G300 1.24.2G400 1.24.2G500 1.24.2G600

ATTENZIONE - ATTENTION:

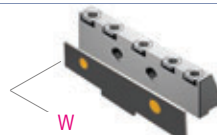
Utilizzare solo con viti posteriori ben serrate - Using only with rear screws strong clamped

Art. 243G W2

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


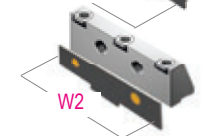
Cod. 1.24.3G100 1.24.3G200 1.24.3G300 1.24.3G400 1.24.3G500 1.24.3G600

Art. 248G W

 Piastra Ganasce con Inserti GRIP
per ganasce fissa doppia. Larghezza normale (W)
 Jaw plate with GRIP insert for double fixed jaw. **Normal width (W)**


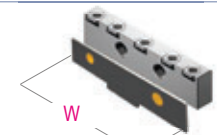
Cod. 1.24.8G100 1.24.8G200 1.24.8G300 1.24.8G400 1.24.8G500 1.24.8G600

Art. 249G W2

 Piastra Ganasce con Inserti GRIP
per ganasce fissa doppia. Larghezza ridotta rettificata (W1)
 Jaw plate with GRIP insert.
For double fixed jaw. Narrow width ground (W1)


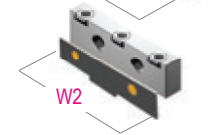
Cod. 1.24.9G100 1.24.9G200 1.24.9G300 1.24.9G400 1.24.9G500 1.24.9G600

Art. 246G W

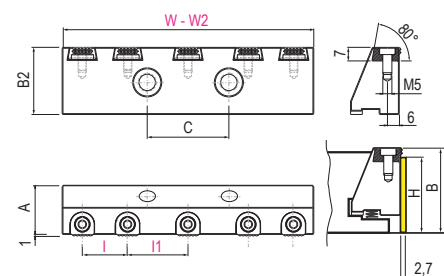
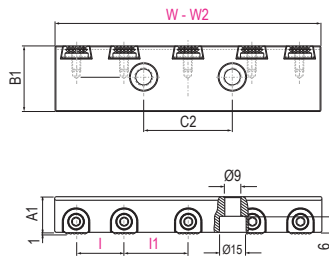
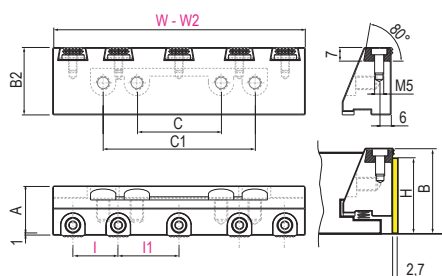
 Piastra Piana con Inserti GRIP. **Larghezza normale (W)**
 Straight Plate with GRIP inserts. **Normal width (W)**


Cod. 1.24.6G100 1.24.6G200 1.24.6G300 1.24.6G400 1.24.6G500 1.24.6G600

Art. 247G W2

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


Cod. 1.24.7G100 1.24.7G200 1.24.7G300 1.24.7G400 1.24.7G500 1.24.7G600

Art.242G W
Art.246G W
Art.248G W

Dotazione Standard - Standard Equipment

1 pc. Art.313S (parallela magnetica SINGOLA) - 1 pc. Art.313S (SINGLE magnetic parallel)

Tipo / Type	1	2	3	4	5	6
W	100	125	150	175	200	300
W2	74	94	124	144	169	194
I	-	-	31,5	35	27	33
I1	35	45	31,5	35	27	33
C	20	32	50	50	76	90
C1	62	80	90	116	138	184
C2	25	32	50	50	76	90
B	30	40	50	60	65	80
B1	24,5	32	39	43	48	56
B2	24,5	32	40	43	53	63
A	25	27	29	32	34	43
A1	20	20	20	20	20	20
H	25	35	45	55	60	75

INSERT GRIP JAW PLATES WITH MAGNETIC PARALLEL

NEW

Art. 242G



Con parallela magnetica e Inserti GRIP
With magnetic parallel and GRIP inserts



Art. 243G

Larghezza ridotta
Narrow width

Art. 248G

Per ganasca fissa doppia
For double fixed jaw



Con parallela magnetica e Inserti GRIP
With magnetic parallel and GRIP inserts



Art. 249G

Larghezza ridotta
Narrow width

Art. 246G

Piastra Piana
Straight Plate

Piana con parallela magnetica e Inserti GRIP
Straight with magnetic parallel and GRIP inserts



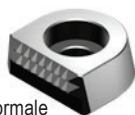
Art. 247G

Larghezza ridotta
Narrow width

Inserti Grip - Grip Inserts

Art. 220 G01

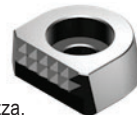
Per materiali di durezza normale
For standard workpieces hardness clamping



Cod. 4.22.01000 / G01

Art. 220 G02

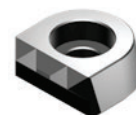
Per materiali di notevole durezza.
For hardened workpieces clamping



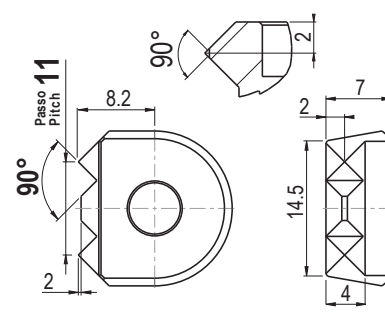
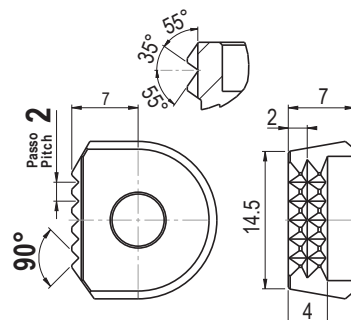
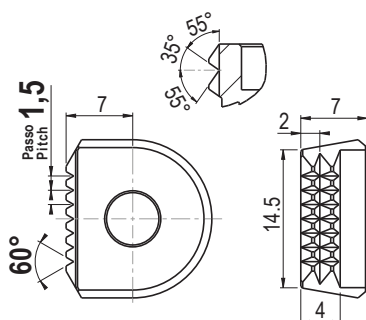
Cod. 4.22.01000 / G02

Art. 220 G11

Per materiali teneri
For soft material clamping



Cod. 4.22.01000 / G11



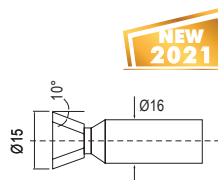
Tipo / Type	1	2	3	4	5	6
Art.242G - Art.248G - Art.246G	3 pcs each jaw plate	3 pcs each jaw plate	5 pcs each jaw plate	5 pcs each jaw plate	7 pcs each jaw plate	9 pcs each jaw plate
Art.243G - Art.249G - Art.247G	3 pcs each jaw plate	3 pcs each jaw plate	5 pcs each jaw plate	5 pcs each jaw plate	7 pcs each jaw plate	7 pcs each jaw plate
Viti a testa bassa M5 x 10mm Low head screws M5 x 10mm	3 pcs each	3 pcs each	5 pcs each	5 pcs each	7 pcs each	7 / 9 pcs each

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



NEW 2021

Ø 15
Cod. 4.22.0F1510

PIASTRE GANASCE A GRADINO INTEGRALE CON INSERTI GRIP

Tipo (grandezza) morsa / Vise type (size)
NEW 2021
Art. 242K W

Piastra Ganasce a gradino con Inserti GRIP.

Larghezza normale (W)

 Step jaw plate with GRIP insert. **Normal width (W)**
Art. 243K W2

Piastra Ganasce a gradino con Inserti GRIP.

Larghezza ridotta rettificata (W1)

 Step jaw plate with GRIP insert. **Narrow width ground (W1)**
Art. 248K W

Piastra Ganasce a gradino con Inserti GRIP

per ganasce fissa doppia. Larghezza normale (W)

 Jaw plate with GRIP insert for double fixed jaw. **Normal width (W)**
Art. 249K W2

Piastra Ganasce a gradino con Inserti GRIP

per ganasce fissa doppia. Larghezza ridotta rettificata (W1)

Step jaw plate with GRIP insert.

For double fixed jaw. Narrow width ground (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)**

Cod. 1.24.2K100 1.24.2K200 1.24.2K300 1.24.2K400 1.24.2K500 1.24.2K600

ATTENZIONE - ATTENTION:

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

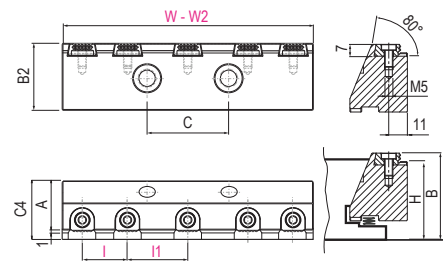
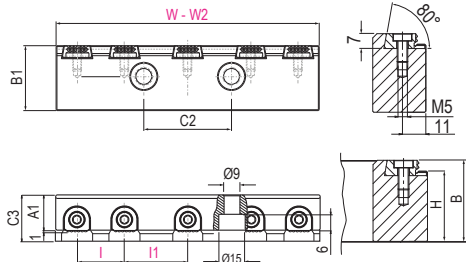
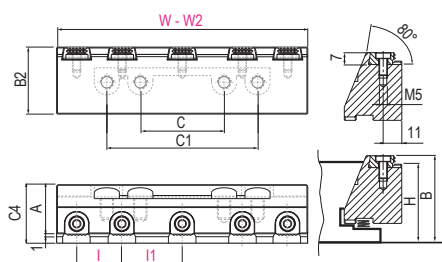
Cod. 1.24.3K100 1.24.3K200 1.24.3K300 1.24.3K400 1.24.3K500 1.24.3K600

Cod. 1.24.8K100 1.24.8K200 1.24.8K300 1.24.8K400 1.24.8K500 1.24.8K600

Cod. 1.24.9K100 1.24.9K200 1.24.9K300 1.24.9K400 1.24.9K500 1.24.9K600

Cod. 1.24.6K100 1.24.6K200 1.24.6K300 1.24.6K400 1.24.6K500 1.24.6K600

Cod. 1.24.7K100 1.24.7K200 1.24.7K300 1.24.7K400 1.24.7K500 1.24.7K600

Art.242K W
Art.247K W
Art.248K W


Tipo / Type	1	2	3	4	5	6
W	100	125	150	175	200	300
W2	74	94	124	144	169	194
I	-	-	31,5	35	27	33
I1	35	45	31,5	35	27	33
C	20	32	50	50	76	90
C1	62	80	90	116	138	184
C2	25	32	50	50	76	90
C3	25	25	25	25	25	25
C4	30	32	34	37	39	48
B	30	40	50	60	65	80
B1	24,5	32	39	43	48	56
B2	24,5	32	40	43	53	63
A	25	27	29	32	34	43
A1	20	20	20	20	20	20
H	25	35	45	55	60	75

INTEGRAL INSERT GRIP STEP JAW PLATES

NEW 2021

Art. 242K  + 
A gradino con Inserti GRIP
With step and GRIP inserts



Art. 248K 
Per ganasca fissa doppia
For double fixed jaw
A gradino con Inserti GRIP
With step and GRIP inserts



Art. 246K 
Piastra Piana
Straight Plate
A gradino con Inserti GRIP
With step and GRIP inserts



Art. 243K
Larghezza ridotta
Narrow width



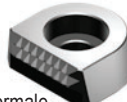
Art. 249K
Larghezza ridotta
Narrow width

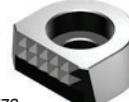


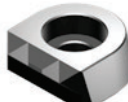
Art. 247K
Larghezza ridotta
Narrow width

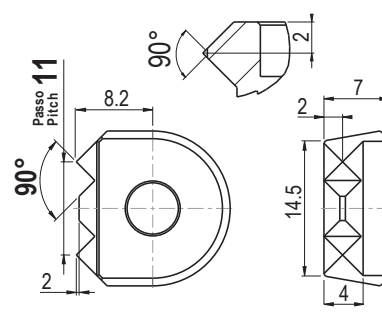
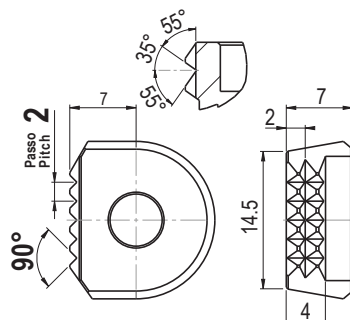
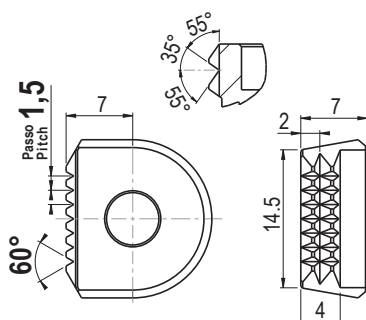


Inserti Grip - Grip Inserts

Art. 220 G01 
Per materiali di durezza normale
For standard workpieces hardness clamping
Cod. 4.22.01000 / G01

Art. 220 G02 
Per materiali di notevole durezza.
For hardened workpieces clamping
Cod. 4.22.01000 / G02

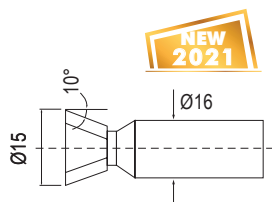
Art. 220 G11 
Per materiali teneri
For soft material clamping
Cod. 4.22.01000 / G11



Tipo / Type	1	2	3	4	5	6
Art.242K - Art.248K - Art.246K	 3 pcs each jaw plate	 3 pcs each jaw plate	 5 pcs each jaw plate	 5 pcs each jaw plate	 7 pcs each jaw plate	 9 pcs each jaw plate
Art.243K - Art.249K - Art.247K	 3 pcs each jaw plate	 3 pcs each jaw plate	 5 pcs each jaw plate	 5 pcs each jaw plate	 7 pcs each jaw plate	 7 pcs each jaw plate
Viti a testa bassa M5 x 10mm Low head screws M5 x 10mm	 3 pcs each	 3 pcs each	 5 pcs each	 5 pcs each	 7 pcs each	 7 / 9 pcs each

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



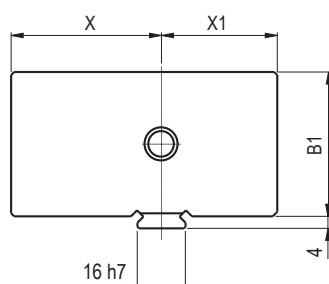
Ø	15
Cod.	4.22.0F1510

GANASCE LAVORABILI MONOBLOCCO / SOLID MACHINEABLE JAWS

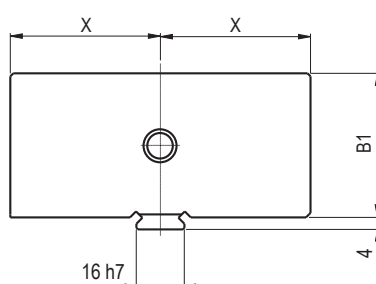
Tipo (grandezza) morsa / Vise type (size)		1	2	3	4	5	6
Art. 160 W3 Ganasce fissa. Larghezza normale (W3) Fixed jaw. Normal width (W3)		Cod. 2.16.01000	2.16.02000	2.16.03000	2.16.04000	2.16.05000	2.16.06000
Art. 161 W1 Ganasce fissa. Larghezza ridotta rettificata (W1) Fixed jaw. Narrow width ground (W1)		Cod. 2.16.11000	2.16.12000	2.16.13000	2.16.14000	2.16.15000	2.16.16000
Art. 163 W3 Ganasce fissa doppia. Larghezza normale (W3) Double fixed jaw. Normal width (W3)		Cod. 2.16.31000	2.16.32000	2.16.33000	2.16.34000	2.16.35000	2.16.36000
Art. 164 W1 Ganasce fissa doppia. Larghezza ridotta rettificata (W1) Double fixed jaw. Narrow width ground (W1)		Cod. 2.16.41000	2.16.42000	2.16.43000	2.16.44000	2.16.45000	2.16.46000
Art. 166 W3 Ganasce mobile monoblocco guidata. Larghezza normale (W3) Guided movable solid jaw. Normal width (W3)		Cod. 2.16.61000	2.16.62000	2.16.63000	2.16.64000	2.16.65000	2.16.66000
Art. 167 W2 Ganasce mobile monoblocco guidata. Larghezza ridotta (W2) Guided movable solid jaw. Narrow width (W2)		Cod. 2.16.71000	2.16.72000	2.16.73000	2.16.74000	2.16.75000	2.16.76000
Art. 168 W3 Ganasce mobile monoblocco oscillante. Larghezza normale (W3) Floating movable solid jaw. Normal width (W3)		Cod. 2.16.81000	2.16.82000	2.16.83000	2.16.84000	2.16.85000	2.16.86000
Art. 169 W2 Ganasce mobile monoblocco oscillante. Larghezza ridotta (W2) Floating movable solid jaw. Narrow width (W2)		Cod. 2.16.91000	2.16.92000	2.16.93000	2.16.94000	2.16.95000	2.16.96000

Durezza / Hardness HB= 290

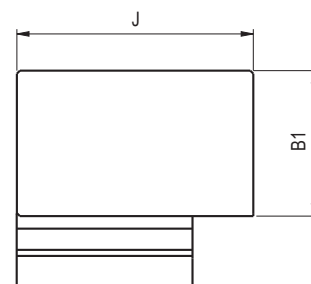
Art. 160



Art. 163



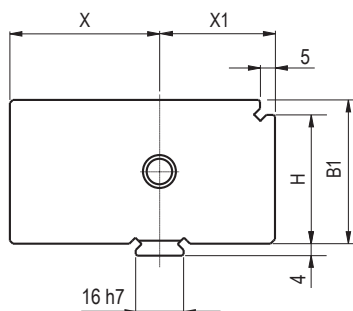
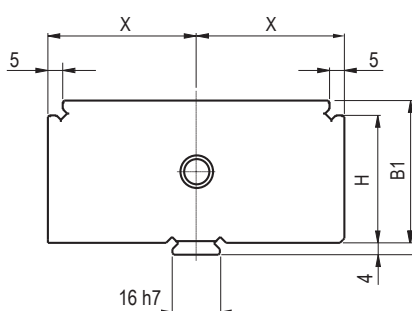
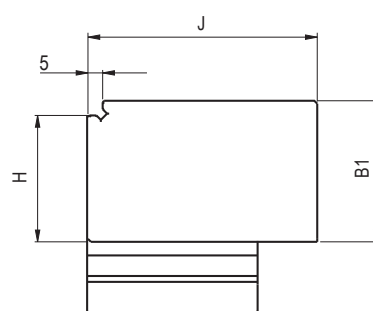
Art. 166



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

Tipo (grandezza) morsa / Vise type (size)		1	2	3	4	5	6
Art. 200 W3		Cod. 2.20.01000	2.20.02000	2.20.03000	2.20.04000	2.20.05000	2.20.06000
Ganascia fissa. Larghezza normale (W3) Fixed jaw. Normal width (W3)							
Art. 201 W1		Cod. 2.20.11000	2.20.12000	2.20.13000	2.20.14000	2.20.15000	2.20.16000
Ganascia fissa. Larghezza ridotta rettificata (W1) Fixed jaw. Narrow width ground (W1)							
Art. 203 W3		Cod. 2.20.31000	2.20.32000	2.20.33000	2.20.34000	2.20.35000	2.20.36000
Ganascia fissa doppia. Larghezza normale (W3) Double fixed jaw. Normal width (W3)							
Art. 204 W1		Cod. 2.20.41000	2.20.42000	2.20.43000	2.20.44000	2.20.45000	2.20.46000
Ganascia fissa doppia. Larghezza ridotta rettificata (W1) Double fixed jaw. Narrow width ground (W1)							
Art. 208 W3		Cod. 2.20.81000	2.20.82000	2.20.83000	2.20.84000	2.20.85000	2.20.86000
Ganascia mobile monoblocco guidata. Larghezza normale (W3) Guided movable solid jaw. Normal width (W3)							
Art. 209 W2		Cod. 2.20.91000	2.20.92000	2.20.93000	2.20.94000	2.20.95000	2.20.96000
Ganascia mobile monoblocco guidata. Larghezza ridotta (W2) Guided movable solid jaw. Narrow width (W2)							
Art. 206 W3		Cod. 2.20.61000	2.20.62000	2.20.63000	2.20.64000	2.20.65000	2.20.66000
Ganascia mobile monoblocco oscillante. Larghezza normale (W3) Floating movable solid jaw. Normal width (W3)							
Art. 207 W2		Cod. 2.20.71000	2.20.72000	2.20.73000	2.20.74000	2.20.75000	2.20.76000
Ganascia mobile monoblocco oscillante. Larghezza ridotta (W2) Floating movable solid jaw. Narrow width (W2)							

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	38,5	41,5	47	47

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

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

Tipo (grandezza) morsa / Vise type (size)
1 2 3 4 5 6
Art. 120A

 Ganascia fissa
 Fixed jaw


Cod.	4.12.0A100	4.12.0A200	4.12.0A300	4.12.0A400	4.12.0A500	4.12.0A600

Art. 123A

 Ganascia fissa doppia
 Double fixed jaw

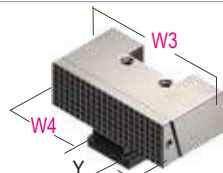

Cod.	4.12.3A100	4.12.3A200	4.12.3A300	4.12.3A400	4.12.3A500	4.12.3A600

Art. 126A

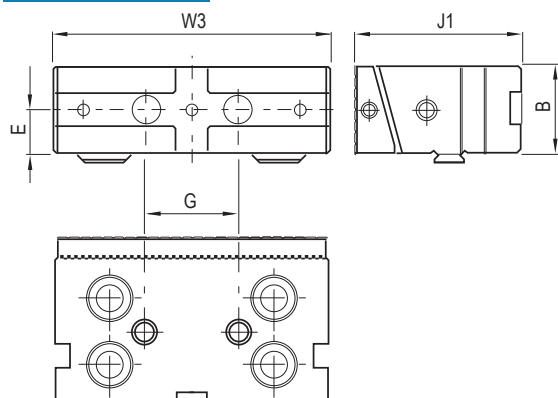
 Ganascia mobile oscillante
 Floating movable jaw


Cod.	4.12.6A100	4.12.6A200	4.12.6A300	4.12.6A400	4.12.6A500	4.12.6A600

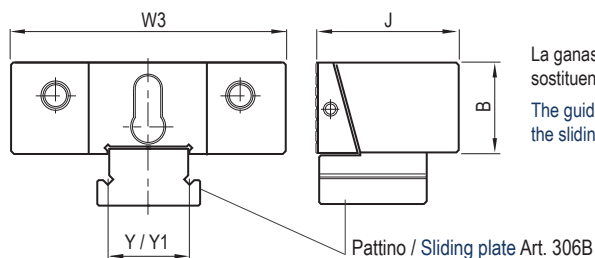
Art. 127A

 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

Art. 120A
Durezza / Hardnes HRC= 60


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

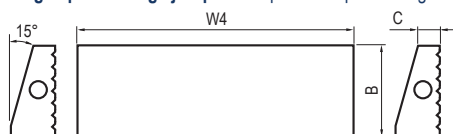

Art. 127A


La ganascia mobile guidata, Art. 127A, può essere tramutata in ganascia mobile oscillante, sostituendo il pattino, Art. 306B, con il pattino Art. 306C (vedi pag. 4.30)

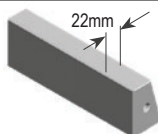
The guided movable jaw, Art. 127A, could be transformed in a floating movable jaw by simply exchanging the sliding plate, Art. 306B, with sliding plate Art. 306C (see page 4.30)

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	77,9	89,4	96,9	113,4	120,4
Y	21	28	41	51	61	71
Y1	20	27	40	50	60	70

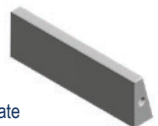
Piastre ganascia StdFLEX a cambio rapido / StdFLEX quick change jaw plates

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


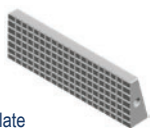
W4	95	120	145	170	195	295
B	28	38	48	58	63	78
C	9	9	11	11	14	14

Art. 230B
Piastra ganascia intercambiabile dolce a pettine
Soft comb interchangeable jaw plate


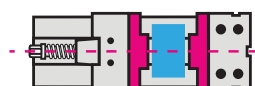
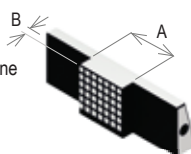
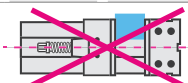
Cod.	4.23.0B101	4.23.0B201	4.23.0B301	4.23.0B401	4.23.0B501	4.23.0B601

Art. 230C
Piastra ganascia intercambiabile liscia a pettine
Smooth comb interchangeable jaw plate


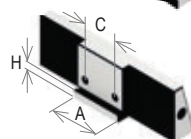
Cod.	4.23.0C101	4.23.0C201	4.23.0C301	4.23.0C401	4.23.0C501	4.23.0C601

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


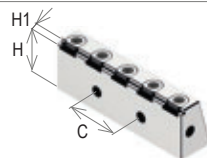
Cod.	4.23.0D101	4.23.0D201	4.23.0D301	4.23.0D401	4.23.0D501	4.23.0D601

Art. 230SLD
Piastra ganascia scaricata a pettine
Discharged comb jaw plate

 Per il serraggio di particolari di piccole dimensioni utilizzare
 sempre ganasce scaricate
 To clamp small workpieces use discharged jaws


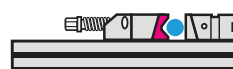
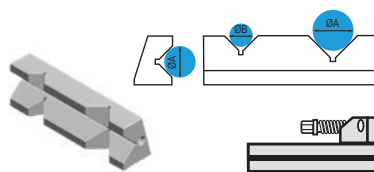
A	28	38	48	58	63	95
B	12	12	12	12	12	12
C	14	18	32	42	47	79
H	8	8	8	8	8	8

Art. 230SLE
Piastra ganascia con gradino scaricata a pettine
Discharged step comb jaw plate


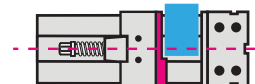
Cod.	4.23.0SLD101	4.23.0SLD201	4.23.0SLD301	4.23.0SLD401	4.23.0SLD501	4.23.0SLD601
Cod.	4.23.0SLE101	4.23.0SLE201	4.23.0SLE301	4.23.0SLE401	4.23.0SLE501	4.23.0SLE601

Art. 230K
Piastra ganascia intercambiabile a gradino a pettine con inserti GRIP
Comb interchangeable step jaw plate with GRIP inserts


C	14	18	32	42	47	79
H	24	34	44	54	59	74
H1	4	4	4	4	4	4
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


A	6 / 16	9 / 24	13 / 38	15 / 40	15 / 42	15 / 42
B	4 / 10	7 / 18	9 / 24	9 / 24	9 / 24	9 / 24
Cod.	4.23.0F101	4.23.0F201	4.23.0F301	4.23.0F401	4.23.0F501	4.23.0F601

Art. 230G
Piastra ganascia intercambiabile a pettine con arresto a 90°
90° interchangeable comb jaw plate


Solo 1 per morsa !! Just 1 pc each vise !!						
Cod.	4.23.0G101	4.23.0G201	4.23.0G301	4.23.0G401	4.23.0G501	4.23.0G601

Art. 230H
Piastra ganascia intercambiabile bombata a pettine
Round comb interchangeable jaw plate


Solo 1 per morsa !! Just 1 pc each vise !!						
Cod.	4.23.0H101	4.23.0H201	4.23.0H301	4.23.0H401	4.23.0H501	4.23.0H601

Art. 230M
Piastra ganascia intercambiabile a pettine per angolo di 30° o 45°
30° or 45° angle interchangeable comb jaw plate

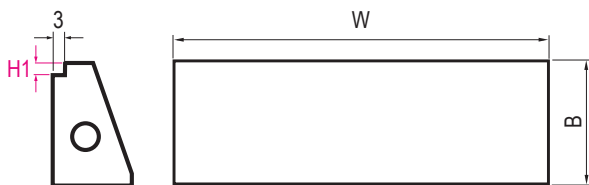
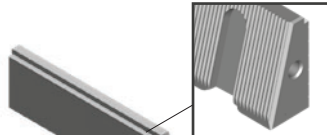
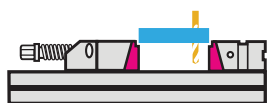

Solo 1 per morsa !! Just 1 pc each vise !!						
Cod.	4.23.0M101	4.23.0M201	4.23.0M301	4.23.0M401	4.23.0M501	4.23.0M601

Art. 230L
Piastra ganascia intercambiabile a pettine con inserti GRIP frontali
GRIP 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

GANASCE StdFLEX A CAMBIO RAPIDO / StdFLEX QUICK CHANGE JAWS

Tipo (grandezza) morsa / Vise type (size)
Art. 230E

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


	1	2	3	4	5	6
W	95	120	145	170	195	295
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
H1	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

SET RISPARMIO FINO AL 48% - SAVING WITH THE SET UP TO 48%

*Aggiungendo solo 1€ al set di piastre ganascia hai in regalo il portapiastre Art.320X ! - Rack Art.320X supplied with the SET with 1€ only

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

*Set

8

Pezzi - Pieces

12

Pezzi - Pieces

14

Pezzi - Pieces

14

Pezzi - Pieces

14

Pezzi - Pieces

14

Pezzi - Pieces

 Prezzo Cad. se acquistate con set
 Price 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

Art. 605G1

Vite a gradino / Step screw



Cod. 6.60.5G101

Art. 605G2

Perno a molla / Spring pin



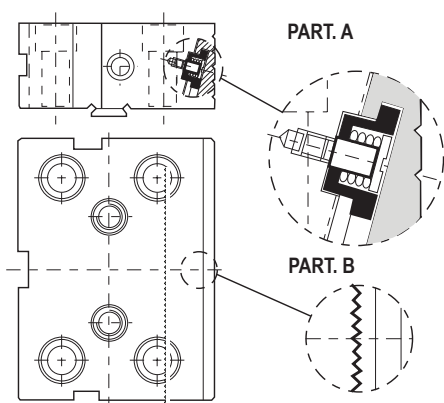
Cod. 6.60.5G201 6.60.5G202

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

Quick hand change of downward jaw plates - no tools needed

The new system with quick interchangeable jaw plates increases the STD vise versatility, and allows the quick jaw allows plates replacement and their high precision repositioning. The speed of the jaw replacement is allowed by the new design of pin with spring (PART. A), while the prismatic grooves (PART. B), made with shaped grind wheel on the surface plates, allow a perfect repositioning. The wide range of interchangeable jaw plates can satisfy the most varied workholding needs.

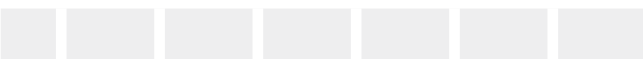
GANASCE MOBILI INTERMEDIE / INTERMEDIATE MOVABLE JAWS

Tipo (grandezza) morsa / Vise type (size)
Art. 212 W3

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

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


Cod. 1.21.21000 1.21.22000 1.21.23000 1.21.24000 1.21.25000 1.21.26000


Art. 213 W2

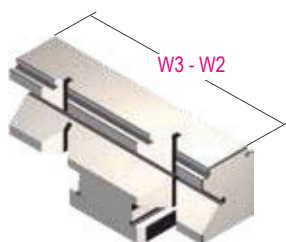
 Ganasce mobile intermedia con doppio gradino.
 Larghezza ridotta (W2)

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

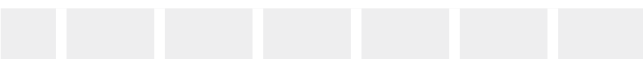
Cod. 1.21.31000 1.21.32000 1.21.33000 1.21.34000 1.21.35000 1.21.36000


Art. 214 W3

 Ganasce mobile intermedia prismatica.
 Larghezza normale (W3)

 Prismatic intermediate movable jaw.
 Normal width (W3)


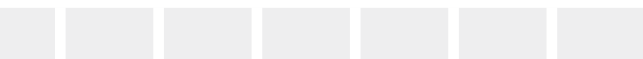
Cod. 1.21.41000 1.21.42000 1.21.43000 1.21.44000 1.21.45000 1.21.46000


Art. 215 W2

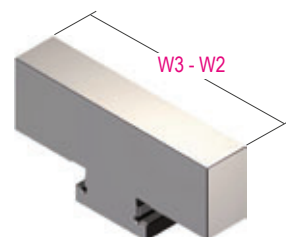
 Ganasce mobile intermedia.
 Larghezza ridotta (W2)

 Intermediate movable jaw.
 Narrow width (W2)

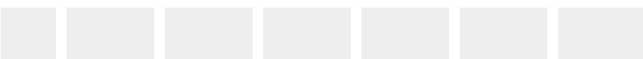
Cod. 1.21.51000 1.21.52000 1.21.53000 1.21.54000 1.21.55000 1.21.56000


Art. 224 W3

 Ganasce mobile intermedia.
 Larghezza normale (W3)

 Intermediate movable jaw.
 Normal width (W3)


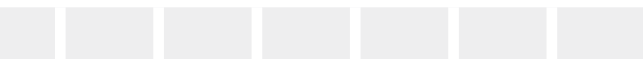
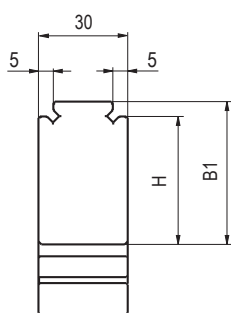
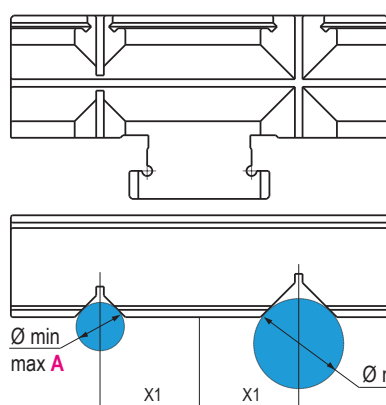
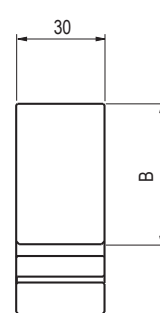
Cod. 1.22.41000 1.22.42000 1.22.43000 1.22.44000 1.22.45000 1.22.46000


Art. 225 W2

 Ganasce mobile intermedia.
 Larghezza ridotta (W2)

 Intermediate movable jaw.
 Narrow width (W2)

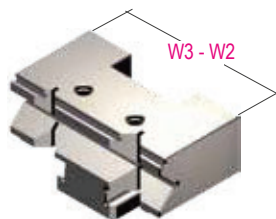
Cod. 1.22.51000 1.22.52000 1.22.53000 1.22.54000 1.22.55000 1.22.56000


Art. 212

Art. 214

Art. 224


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

GANASCE MOBILI PRISMATICHE / PRISMATIC MOVABLE JAWS

Tipo (grandezza) morsa / Vise type (size)
Art. 217 W3

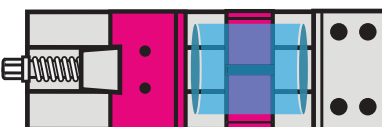
 Ganasia mobile guidata prismatica.
 Larghezza normale (W3)
 Prismatic guided movable jaw.
 Normal width (W3)


Cod. 2.21.71000 2.21.72000 2.21.73000 2.21.74000 2.21.75000 2.21.76000


Art. 218 W2

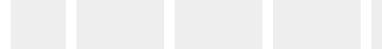
 Ganasia mobile guidata prismatica.
 Larghezza ridotta (W2)
 Prismatic guided movable jaw.
 Narrow width (W2)

Cod. 2.21.81000 2.21.82000 2.21.83000 2.21.84000 2.21.85000 2.21.86000


Art. 152 W2

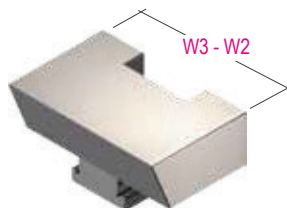
 Inserto prismatico.
 Larghezza ridotta (W2)
 Prismatic insert. Narrow width (W2)


Cod. 4.15.21000 4.15.22000 4.15.23000 4.15.24000 4.15.25000 4.15.26000

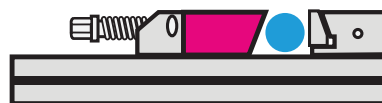


Ganasce per PARTICOLARI TONDI / Jaws for ROUND WORKPIECE

Art. 210 W3

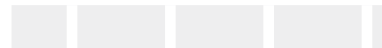
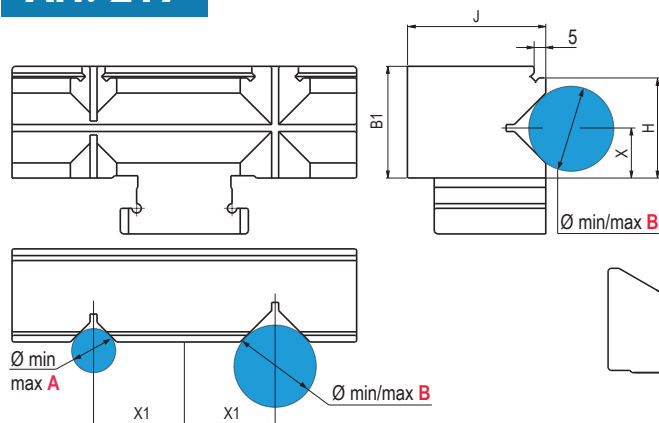
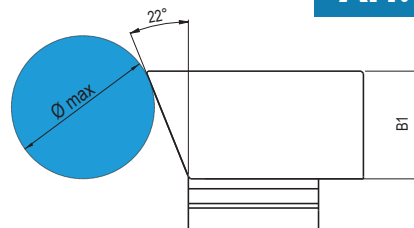
 Ganasia mobile oscillante.
 Larghezza normale (W3)
 Floating movable jaw. Normal width (W3)


Cod. 2.21.01000 2.21.02000 2.21.03000 2.21.04000 2.21.05000 2.21.06000


Art. 211 W2

 Ganasia mobile oscillante.
 Larghezza ridotta (W2)
 Floating movable jaw. Narrow width (W2)

Cod. 2.21.11000 2.21.12000 2.21.13000 2.21.14000 2.21.15000 2.21.16000


Art. 217

Art. 210

Art. 152

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

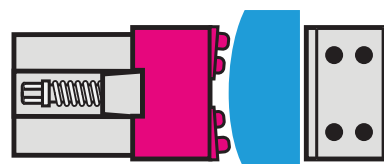
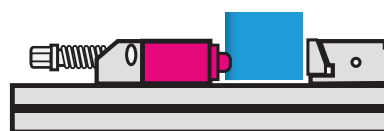
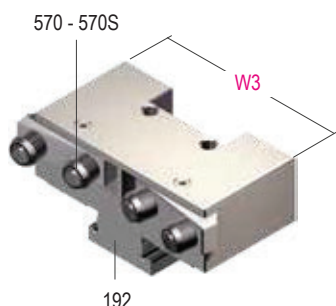
GANASCE CON SEGMENTI OSCILLANTI / MOVABLE JAW WITH FLOATING ELEMENTS

Tipo (grandezza) morsa / Vise type (size)

1 2 3 4 5 6

Art. 192

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

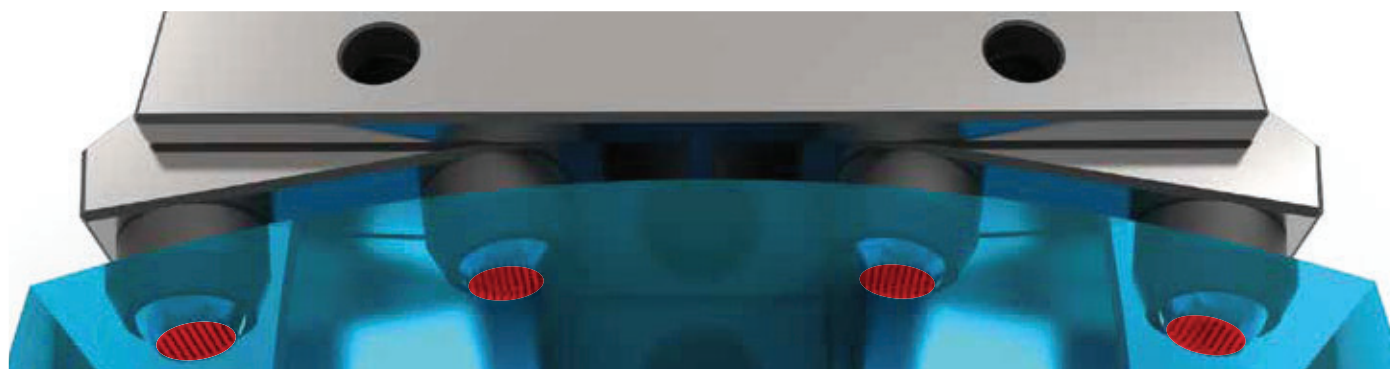


Art. 192S

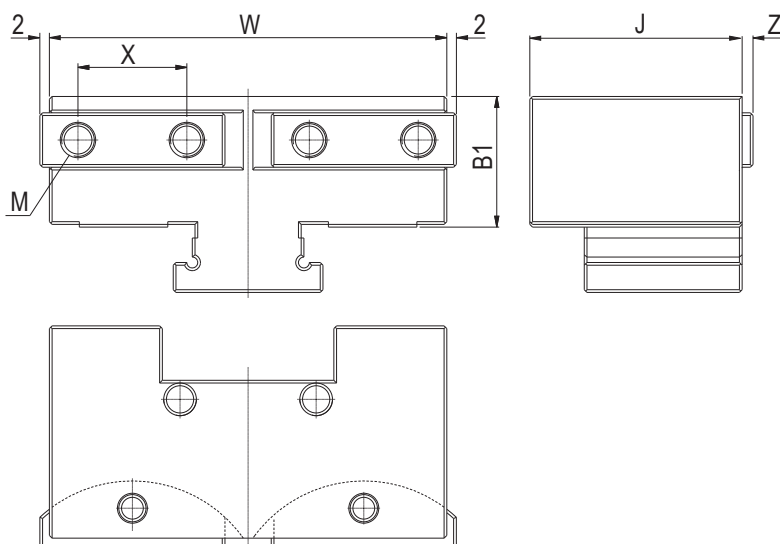
Ganascia mobile oscillante con 2 elementi oscillanti e puntali sferici zigrinati.
 Floating movable jaw with two floating elements and spherical serrated points.

Per serraggio di particolari irregolari - For irregular workpieces clamping

Cod.	4.19.21000	4.19.22000	4.19.23000	4.19.24000	4.19.25000	4.19.26000
Cod.	4.19.2S100	4.19.2S200	4.19.2S300	4.19.2S400	4.19.2S500	4.19.2S600



Art. 192



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

PARALLELE MODULARI MAGNETICHE AD INNESTO RAPIDO

QUICK MAGNETIC MODULAR PARALLEL PLATES

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

Nessun problema di magnetismo sui trucioli

The modular bearing parallelsplates are a further opportunity of the Gerardi modular system. It allows in fact the quick and accurate positioning of straight or angular parallels plates to machine (milling, drilling and tapping) flat pieces of any size and dimension without disassembling or positioning the fixture again.

No problem with chips magnetic

VANTAGGI:

- Rapidit  e precisione di installazione.
- Risparmio rispetto alla sostituzione della ganasce intera.
- Minori ingombri e costi rispetto alle parallele standard.
- Usiamo parallele magnetiche con piastre ganasce avvitare

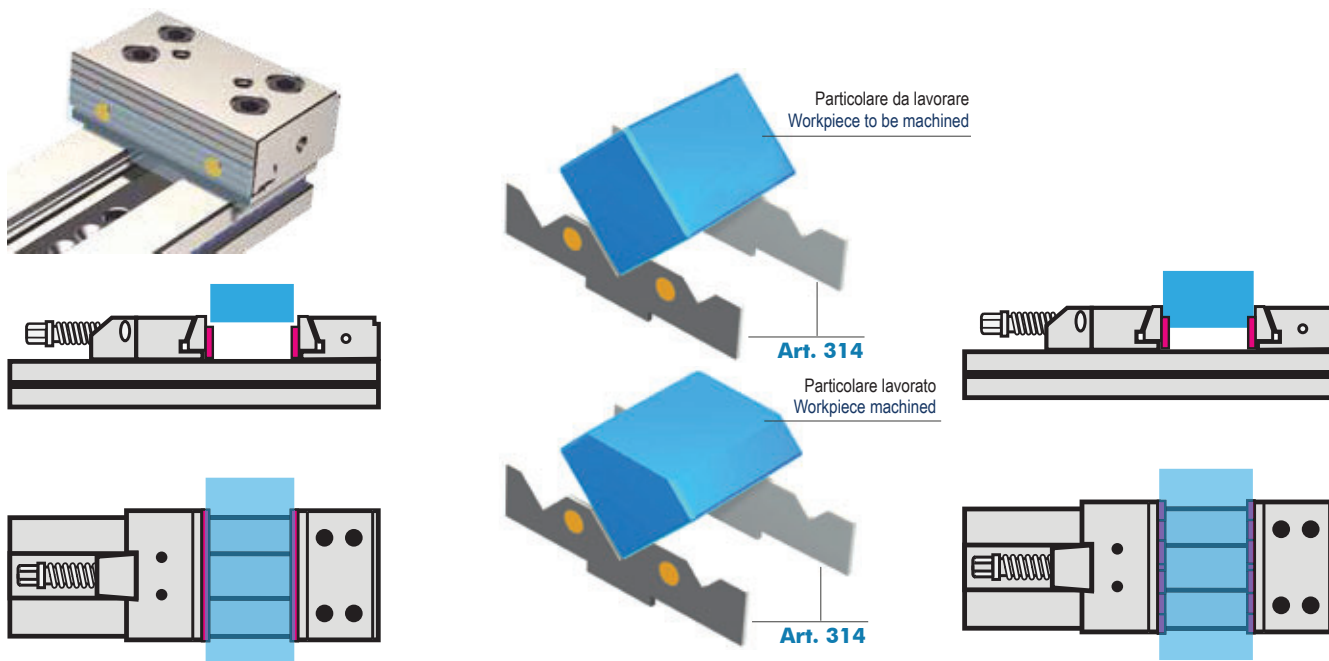
Naturalmente tutti i componenti sono in acciaio speciale per molle e rettificati con tolleranze centesimali.

ADVANTAGES:

- Quick and accurate positioning.
- Saving with respect to the substitution of the whole jaw.
- Space and money saving with respect to the standard parallel plates.
- Use magnetic plates with jaw plates completely tightened

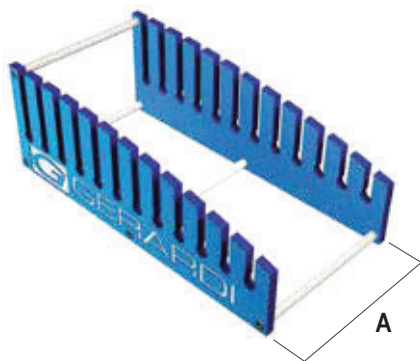
Of course each component is made of hardened and ground spring steel and the accuracy is within 0,02 mm.

ESEMPI DI APPLICAZIONE - TYPICAL ARRANGEMENTS



Art. 317

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



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

A	60	100	150
Cod.	4.31.71000	4.31.73000	4.31.75000

Art. 313A

Magnete per parallele
 Magnet for parallels



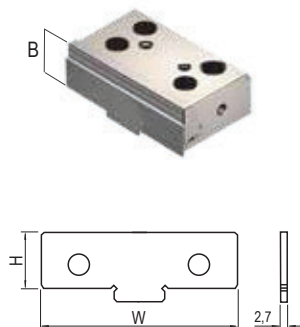
Cod. 4.31.3A100

NON MODULARI - NOT MODULAR

Richiedono aggiustaggio in opera - Adjustment needed before working

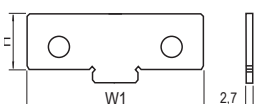
Per qualsiasi parallela speciale, raddoppiare il prezzo / For special tailor made parallel double the price

Tipo (grandezza) / Vise type (size)
Art. 313

 Coppia di parallele magnetiche guidate
 Pair of guided parallels magnetic plates


	1	2	3	4	5	6
H STANDARD FOR INSERT GRIP H STANDARD	-	-	-	20	20	30
	-	-	15	25	25	35
	-	15	20	30	30	40
	-	20	25	35	35	45
	15	25	30	40	40	50
	18	28	35	45	45	54
	20	30	40	50	50	60
	23	33	43	53	53	68
	25	35	45	55	57	70
	27	37	47	57	60	75
B	30	40	50	60	65	70
W	100	125	150	175	200	300
Cod.	4.31.3100C	4.31.3200C	4.31.3300C	4.31.3400C	4.31.3500C	4.31.3600C

Art. 313R

 Coppia di parallele magnetiche guidate ridotte
 Pair of narrow guided parallels 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%

Aggiungendo solo 1€ netto al set di parallele hai in regalo la rastrelliera Art.317X ! - Rack Art.317X supplied with the SET with 1€ only

Art. 310

 6 coppie di parallele - If you purchase 6 pairs of parallels plates
 (Art.313-313R / 414-414R)

6 COPPIE - PAIRS

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

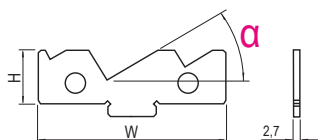
Art. 311

 10 coppie di parallele - If you purchase 10 pairs of parallels plates
 (Art.313-313R / 414-414R)

10 COPPIE - PAIRS

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

Tipo (grandezza) / Vise type (size)
Art. 314

 Coppia di parallele magnetiche angolari
 Pair of angular magnetic parallels plates


α						
SPECIFICARE SEMPRE QUOTA "α" - SPECIFY ALWAYS "α" DIMENSION						
W	100	125	150	175	200	300
H	23	33	43	53	53	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%

Aggiungendo solo 1€ netto al set di parallele hai in regalo la rastrelliera Art.317X ! - Rack Art.317X supplied with the SET with 1€ only

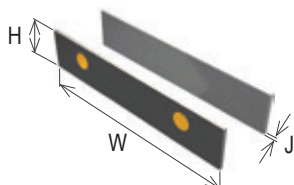
Art. 312

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

6 COPPIE - PAIRS

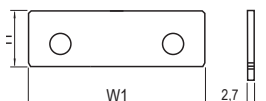
 Prezzo Cad. se acquistate con set
 Price each in case of set purchase

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 parallels magnetic plates


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 narrow parallels magnetic plates


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		NO StandardFLEX						
		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 ganasce mobili. <i>Art. 190 - 191</i> Floating segment for movable jaws. <i>Art. 190 - 191</i>		Cod.	1.26.01000	1.26.02000	1.26.03000	1.26.04000	1.26.05000	1.26.06000
Art. 362 Molla per piastre ganasce Spring for jaw plates		Cod.	0.70.10000	0.70.10000	0.70.30000	0.70.30000	0.70.30000	0.70.30000
Art. 380 Vite TCEI fissaggio corpo ganascia fissa Hex socket and screw for fixed jaw body		Cod.	0.01.11030	0.01.10865	0.01.11450	0.01.11660	0.01.12065	0.01.12080
Art. 381 Vite TCEI fissaggio piastra ganascia fissa Hex socket screw for fixed plate		Cod.	0.01.10565	0.01.11240	0.01.11451	0.01.11661	0.01.12066	0.01.12081
Art. 382 Vite TCEI fissaggio piastra ganascia mobile Hex socket and screw for movable jaw plate		Cod.	0.01.10525	0.01.10830	0.01.10840	0.01.10845	0.01.11050	0.01.11065
Art. 383 Vite TCEI fissaggio piastra ganascia fissa doppia Hex socket and screw for double fixed jaw		Cod.	0.01.10520	0.01.10620	0.01.10820	0.01.11820	0.01.11020	0.01.11020
Art. 384 Vite TCEI per arresto laterale Hex socket and screw for workstop		Cod.	0.06.11100	0.06.22200	0.06.33300	0.06.44400	0.06.55500	0.06.66600
Art. 431 Rondella per arresto laterale Washer for workstop		Cod.	2.43.11000	2.43.12000	2.43.13000	2.43.14000	2.43.15000	2.43.16000
Art. 440 Dado per arresto laterale Nut for workstop		Cod.	2.44.01000	2.44.02000	2.44.03000	2.44.04000	2.44.05000	2.44.06000
Art. 570 Puntale sferico Liscio Smooth spherical point	Art. 570S Puntale sferico zigrinato Serrated spherical point	Cod.	1.57.01000	1.57.03000	1.57.05000			
		Cod.	1.57.0S100	1.57.0S300	1.57.0S500			

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 	Cod. 1.35.20000 	Cod. 1.35.30000 	Cod. 1.35.40000 	Cod. 1.35.50000 	Cod. 1.35.60000 
Art. 301 Corpo ganascia fissa. Larghezza ridotta rettificata Body fixed jaw. Normal width ground	Cod. 1.35.10300 	Cod. 1.35.20300 	Cod. 1.35.30300 	Cod. 1.35.40300 	Cod. 1.35.50300 	Cod. 1.35.60300 
Art. 303 Corpo ganascia fissa doppia. Larghezza normale Double body fixed jaw. Normal width 	Cod. 1.35.10900 	Cod. 1.35.20900 	Cod. 1.35.30900 	Cod. 1.35.40900 	Cod. 1.35.50900 	Cod. 1.35.60900 
Art. 304 Corpo ganascia fissa doppia. Larghezza ridotta rettificata Double body fixed jaw. Normal width ground	Cod. 1.35.11200 	Cod. 1.35.21200 	Cod. 1.35.31200 	Cod. 1.35.41200 	Cod. 1.35.51200 	Cod. 1.35.61200 
Art. 306 Corpo ganascia mobile guidata. Larghezza normale Body guided movable jaw. Normal width 	Cod. 1.36.10000 	Cod. 1.36.20000 	Cod. 1.36.30000 	Cod. 1.36.40000 	Cod. 1.36.50000 	Cod. 1.36.60000 
Art. 302 Corpo ganascia mobile oscillante. Larghezza normale Body floating movable jaws. Normal width	Cod. 4.30.21000 	Cod. 4.30.22000 	Cod. 4.30.23000 	Cod. 4.30.24000 	Cod. 4.30.25000 	Cod. 4.30.26000 
Art. 307 Corpo ganascia mobile guidata. Larghezza ridotta rettificata Body guided movable jaw. Narrow width ground	Cod. 1.36.11000 	Cod. 1.36.21000 	Cod. 1.36.31000 	Cod. 1.36.41000 	Cod. 1.36.51000 	Cod. 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 	Cod. 4.30.52000 	Cod. 4.30.53000 	Cod. 4.30.54000 	Cod. 4.30.55000 	Cod. 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 	Cod. 1.36.20400 	Cod. 1.36.30400 	Cod. 1.36.40400 	Cod. 1.36.50400 	Cod. 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 	Cod. 1.36.20700 	Cod. 1.36.30700 	Cod. 1.36.40700 	Cod. 1.36.50700 	Cod. 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 	Cod. 2.19.02000 	Cod. 2.19.03000 	Cod. 2.19.04000 	Cod. 2.19.05000 	Cod. 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 	Cod. 2.19.12000 	Cod. 2.19.13000 	Cod. 2.19.14000 	Cod. 2.19.15000 	Cod. 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 	Cod. 1.35.21800 	Cod. 1.35.31800 	Cod. 1.35.41800 	Cod. 1.35.51800 	Cod. 1.35.61800
Art. 316 Corpo ganascia fissa. Larghezza ridotta rettificata Body fixed jaw. Narrow width ground	Cod. 1.35.12100 	Cod. 1.35.22100 	Cod. 1.35.32100 	Cod. 1.35.42100 	Cod. 1.35.52100 	Cod. 1.35.62100
Art. 318 Corpo ganascia fissa doppia. Larghezza normale Double body fixed jaw. Normal width	Cod. 1.35.12700 	Cod. 1.35.22700 	Cod. 1.35.32700 	Cod. 1.35.42700 	Cod. 1.35.52700 	Cod. 1.35.62700
Art. 319 Corpo ganascia fissa doppia. Larghezza ridotta rettificata Double body fixed jaw. Narrow width ground	Cod. 1.35.13000 	Cod. 1.35.23000 	Cod. 1.35.33000 	Cod. 1.35.43000 	Cod. 1.35.53000 	Cod. 1.35.63000
Art. 321 Corpo ganascia mobile guidata. Larghezza normale Body guided movable jaw. Normal width	Cod. 1.36.11600 	Cod. 1.36.21600 	Cod. 1.36.31600 	Cod. 1.36.41600 	Cod. 1.36.51600 	Cod. 1.36.61600
Art. 322 Corpo ganascia mobile guidata. Larghezza ridotta rettificata Body guided movable jaw. Narrow width ground	Cod. 1.36.12200 	Cod. 1.36.22200 	Cod. 1.36.32200 	Cod. 1.36.42200 	Cod. 1.36.52200 	Cod. 1.36.62200
Art. 323 Corpo ganascia mobile oscillante. Larghezza normale Body floating movable jaw. Narrow width	Cod. 1.36.11300 	Cod. 1.36.21300 	Cod. 1.36.31300 	Cod. 1.36.41300 	Cod. 1.36.51300 	Cod. 1.36.61300
Art. 324 Corpo ganascia mobile oscillante. Larghezza ridotta rettificata Body floating movable jaw. Narrow width ground	Cod. 1.36.11900 	Cod. 1.36.21900 	Cod. 1.36.31900 	Cod. 1.36.41900 	Cod. 1.36.51900 	Cod. 1.36.61900

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

Art. 300A Corpo ganascia fissa Fixed jaw body		Cod. 1.30.0A100 	Cod. 1.30.0A200 	Cod. 1.30.0A300 	Cod. 1.30.0A400 	Cod. 1.30.0A500 	Cod. 1.30.0A600
Art. 303A Corpo ganascia fissa doppia Double fixed jaw body		Cod. 1.30.3A100 	Cod. 1.30.3A200 	Cod. 1.30.3A300 	Cod. 1.30.3A400 	Cod. 1.30.3A500 	Cod. 1.30.3A600
Art. 306A Corpo ganascia mobile guidata Guided movable jaw body		Cod. 1.30.6A100 	Cod. 1.30.6A200 	Cod. 1.30.6A300 	Cod. 1.30.6A400 	Cod. 1.30.6A500 	Cod. 1.30.6A600
Art. 306B Pattino per ganasce mobili guidate Sliding plate for guided movable jaw		Cod. 1.30.6B100 	Cod. 1.30.6B200 	Cod. 1.30.6B300 	Cod. 1.30.6B400 	Cod. 1.30.6B500 	Cod. 1.30.6B600
Art. 306C Pattino per ganasce mobili oscillanti Sliding plate for floating movable jaw Y1 = Y - 1mm		Cod. 1.30.6C100 	Cod. 1.30.6C200 	Cod. 1.30.6C300 	Cod. 1.30.6C400 	Cod. 1.30.6C500 	Cod. 1.30.6C600

GRUPPI PREASSEMBLATI / PRE-ASSEMBLED GROUP

Tipo (grandezza) / Vise type (size)
Art. 105

 Base girevole
 Swivel base


Art. 105 - Senza alcuna dotazione

Art. 105 - Supplied without accessory equipment

	1	2	3	4	5	6
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. 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

 Staffa per base girevole
 Clamp swivel base


Cod. 1.84.10000 1.84.20000 1.84.30000 1.84.40000 1.84.50000 1.84.60000

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 esagonale per base girevole
 Bolt swivel base


Cod. 0.05.08035 0.05.10035 0.05.10040 0.05.12050 0.05.14060 0.05.14060

Art. 430

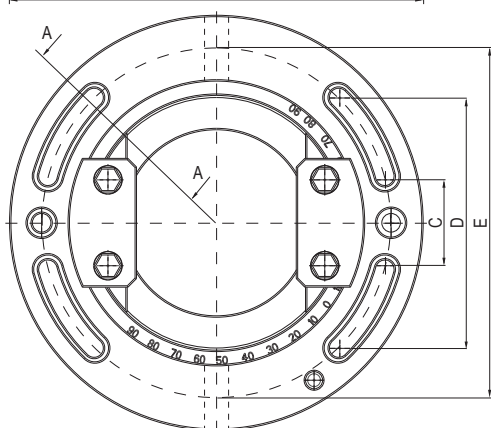
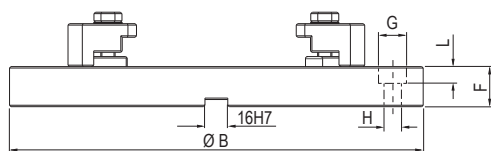
 Rondella per base girevole
 Washer swivel base


Cod. 0.75.18416 0.75.11052 0.75.11052 0.75.11325 0.75.11525 0.75.11525

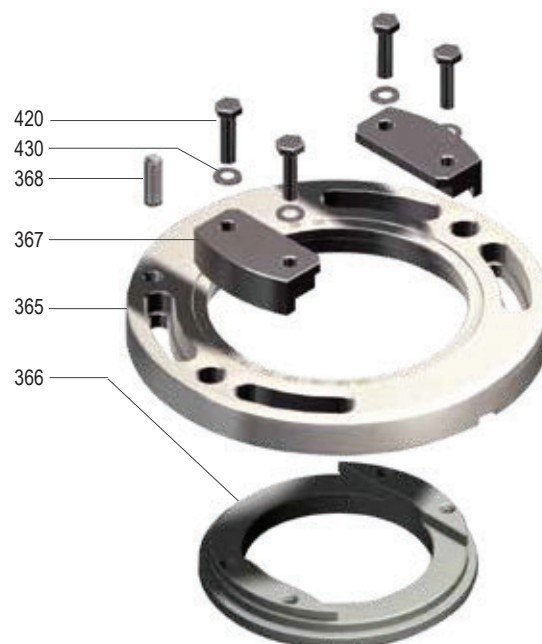
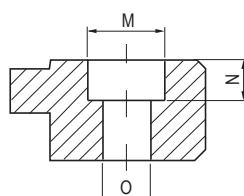
Art. 105

Base girevole / Swivel base

(Art. 365 + 366 + 367 + 368 + 420 + 430)



Sezione / Section "A-A"



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

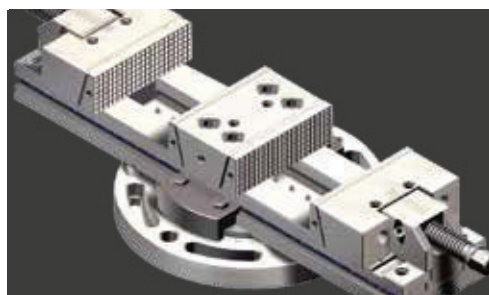


Art. 2

Art. 2

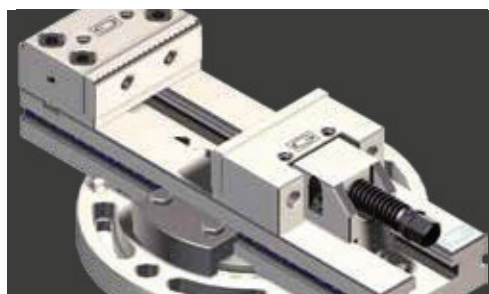
Morsa STD Art. 1 + Base girevole Art.105

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

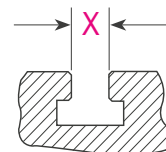
Coppia di staffe Art. 298 complete di vite e dado a T (Art. 287) / Pair of vise holding clamps Art. 298 complete of screws and T nuts (Art. 287)

Art. 298

Art. 287

Art. 298

Art. 287



Specificare sempre la cava della vostra macchina

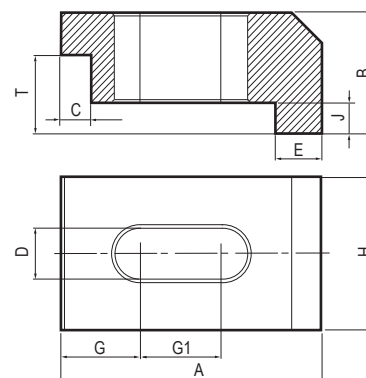
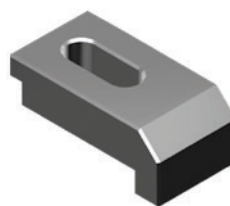
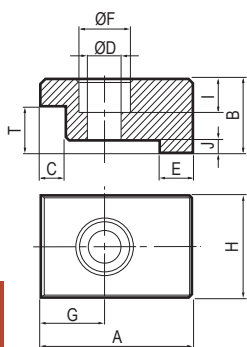
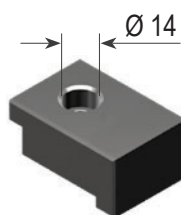
Always specify the machine T-slot dimension

* Scelta consigliata - Suggested choice

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

Art. 298

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


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

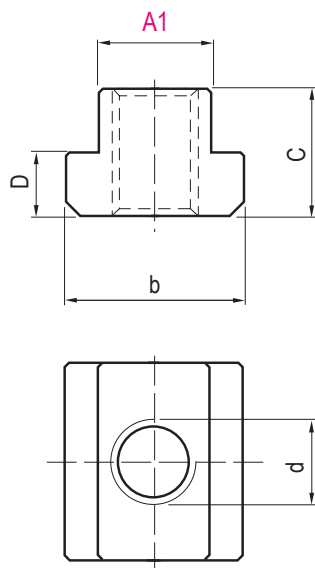
* Scelta consigliata - Suggested choice

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

Art. 287

Dadi per cave a T
Nuts for T slots

DIN 508



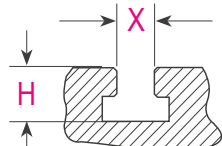
In fase d'ordine,
completare il codice
specificando il
numero **N** di dado a T

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



Esempio / Example
Cod. 2.28.74000 / 24

DIN 650



Specificare sempre la cava
della vostra macchina

Always specify
the machine T-slot dimension

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

~~Scelta NON consigliata - NOT Suggested choice~~

X	0 ÷ 22	23 ÷ 36	37 ÷ 54
Cod.	2.28.72000 / N	2.28.740000 / N	2.28.76000 / N

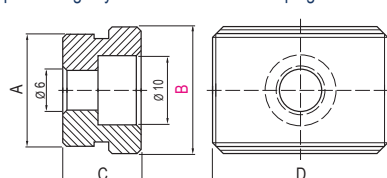
Tipo (grandezza) morsa / Vise type (size)

1 2 3 4 5 6

Art. 297

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

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

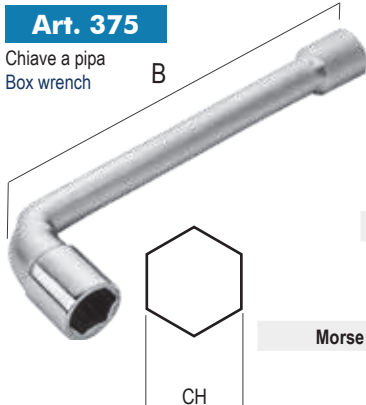
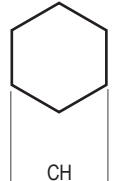
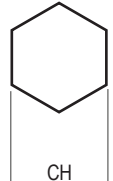


A	16									
B	10	12	14	16	18	20	22	24	28	36
C	10	10	10	10	10	12	12	12	12	12
D	25									
Cod.	2.29.71000									

ATTREZZI e DOTAZIONI / TOOLS and EQUIPMENT

Tipo (grandezza) morsa / Vise type (size)		1	2	3	4	5	6	
Art. 291 Tappo incavo per alloggiamento sfera <i>solo per Art.1A</i> Concave cap for sphere <i>only for Art.1A</i>		Ø	13,2	20,8	20,8	25,8	25,8	25,8
		Cod.	1.29.11000	1.29.12000	1.29.13000	1.29.14000	1.29.15000	1.29.16000
Art. 325 Chiave esagonale a bussola Hexagon bushing		CH	14 - 16 - 17 - 18 - 19 - 21 - 22			24 - 27 - 30 - 32		
		Cod.		0.09.325CH		0.09.325CH		

Tipo (grandezza) morsa / Vise type (size)		0	1	2	3	4	5	6
Art. 370 Arresto laterale completo Complete workshop	Vite / Screw Staffa / Bracket	M	10	12	16			
		mm	90x30x15	120x30x15	160x40x25			
	Morse Standard / FMS Standard / FMS Vises	Cod.	2.37.01000	2.37.03000	2.37.05000			
	Vite / Screw Staffa / Bracket	M	6	8	10			
		mm	42x14x8	60x18x12	90x30x15			
	Morse Multitasking Multitasking Vises	Cod.	7.37.01000	7.37.02000	2.37.01000	-	-	-
	Vite / Screw Staffa / Bracket	M	10	10				
		mm	60x20x12	90x30x15				
	Morse Multiflex Multiflex Vises	Cod.	6.37.01000	2.37.01000	-	-	-	-
Art. 666I Arresto laterale morse OK Workshop for OK vises	Perno / Pin Staffa / Bracket	M	5	6	6	6	8	8
		mm	40x16x12	55x16x12	70x20x14	70x20x14	-	90x20x18
	Morse OK OK Vises	Cod.	7.66.61000	7.66.61000	7.66.61200	7.66.61300	7.66.61400	7.66.61500
Art. 370EM Arresto laterale magnetico Magnetic workshop	Perno / Pin Staffa / Bracket	Ø	5	6				
		mm	30x14x8	45x20x10				
	Morse CompactGRIP CompactGRIP Vises	Cod.	7.37.01000EM	7.37.02000EM	-	-	-	-

Tipo (grandezza) morsa / Vise type (size)		1		2		3		4		5		6	
		CH	B	CH	B	CH	B	CH	B	CH	B	CH	B
Art. 375 Chiave a pipa Box wrench	Morse Standard / Standard Vises	12	160	19	250	22	300	22	300	30	450	30	450
		Cod.	4.37.512160	4.37.519250	4.37.522300	4.37.522300	4.37.522300	4.37.522300	4.37.522300	4.37.530450	4.37.530450	4.37.530450	4.37.530450
	Morse FMS / FMS Vises	16	250	16	250	19	250	19	250	27	250	27	250
		Cod.	4.37.516250	4.37.516250	4.37.519250	4.37.519250	4.37.519250	4.37.519250	4.37.519250	4.37.519250	4.37.519250	4.37.519250	4.37.519250
	Morse Multitasking / Multitasking Vises	12	160	16	250	16	250	-	-	-	-	-	-
		Cod.	4.37.512160	4.37.516250	4.37.516250	4.37.516250	4.37.516250	-	-	-	-	-	-
	Morse CompactGrip - MaxiGrip / CompactGrip - MaxiGrip Vises	10	160	12	160	16	250	17	280	-	-	-	-
		Cod.	4.37.510160	4.37.512160	4.37.516250	4.37.516250	4.37.517280	4.37.517280	4.37.517280	-	-	-	-

Art. 376

Chiave a T

T wrench



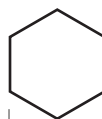
CH	4	5	6	10
Cod.	0.09.21400	0.09.22500	0.09.23600	0.09.25100

Art. 377

Chiave esagonale serie lunga

Hexagon wrench long reach





CH

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

Tipo (grandezza) morsa / Vise type (size)		1	2	3
Art. 357 Chiave dinamometrica digitale a cricchetto con attacco 1/2" Torque wrench digital ratchet type with hexagon with 1/2" driver square  	Nm	10÷135	20÷200	34÷340
	Cod.	2.35.71000	2.35.72000	2.35.73000

DISPOSITIVI MECCANICI / MECHANICAL BLOCKING DEVICES

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

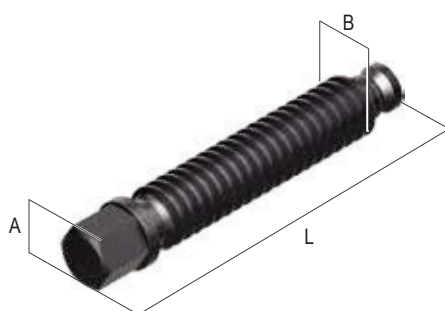


Per le forze di serraggio vedi pag. 4.00
For clamping force see page 4.00

RICAMBI / SPARE PARTS

Art. 360

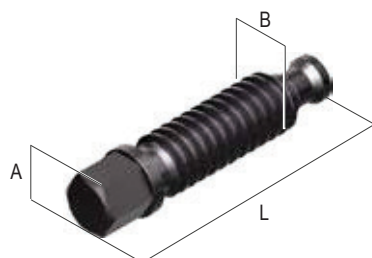
Vite di spinta. Normale
Clamping bolt. Normal



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

Art. 355

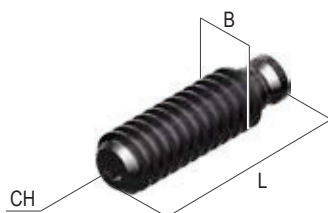
Vite di spinta. Ridotta
Clamping bolt. Short



A	12	19	22	30
B	M12	TPN 18 x 4	TPN 24 x 5	TPN 30 x 5
L	90	100	115	150
Cod.	1.90.14144	1.90.24184	1.90.34245	1.90.54366

Art. 356

Vite di spinta. Super ridotta
Clamping bolt. Super short



CH	6	8	10	12
B	M12	TPN 18 x 4	TPN 24 x 5	TPN 30 x 5
L	53	73	81	113
Cod.	1.35.61000	1.35.62000	1.35.60003	1.35.60005

Art. 282A

Supporto di serraggio meccanico
Mechanical clamping device support



Cod.	2.28.2A100	2.28.2A200	2.28.2A300	2.28.2A400	2.28.2A500	2.28.2A600

Art. 410

Grano
Setscrew



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

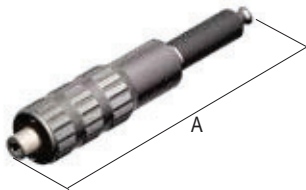
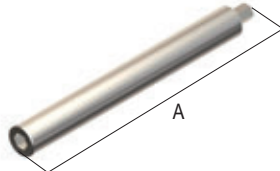
Art. 361

Sfera
Ball



Cod.	1.36.11001	1.36.12002	1.36.13003	1.36.14004	1.36.15005	1.36.16006
	9/16"	3/4"	7/8"	7/8"	1 1/8"	1 1/8"

SERVOCOMANDI OLEODINAMICI / HYDRAULIC SERVO UNITS

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 257 Gruppo di serraggio a vite idraulica (Autonomo) Hydraulic hand screw clamping device (Self contained)						
Cod.	-	2.25.73000	2.25.74000	2.25.75000	2.25.76000	
Art. 284A Supporto di serraggio per mandrino a vite idraulica Clamping support for hydraulic spindle						
Cod.	-	2.28.4A300	2.28.4A400	2.28.4A500	2.28.4A600	
Art. 286 Mandrino a vite idraulica Hydraulic spindle						
Kn	-	12	20			
A	-	420	359			
Cod.	-	4.28.63000	4.28.65000			
Art. 295 Gruppo di serraggio a vite idraulica compatto Compact hydraulic hand screw clamping device						
Cod.	-	4.29.53000	4.29.54000	-	-	
Art. 294A Supporto di serraggio per mandrino compatto a vite idraulica Clamping support for compact hydraulic spindle						
Cod.	-	4.29.4A300	4.29.4A400	-	-	
Art. 293 Mandrino compatto a vite idraulica Compact hydraulic spindle						
Kn	-	10	-			
A	-	173				
Cod.	-	4.29.33000	-	-		
Art. 290 Manovella per mandrino a vite idraulica Crank hydraulic spindle						
Cod.	-	4.29.03000M12				
Art. 292 Prolunga per Art. 290 Extension for Art. 290						
A		160 / 260				
Cod.	-	4.29.23000				

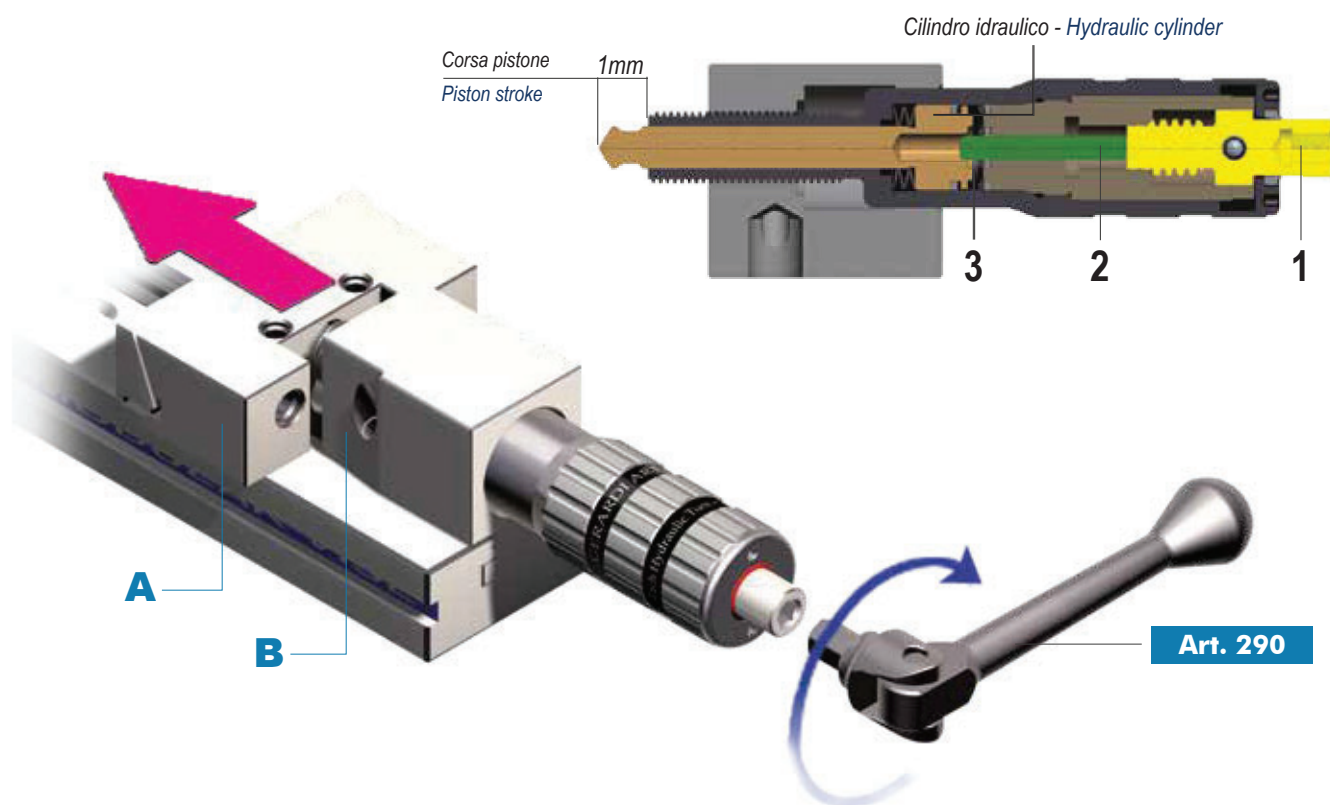
METODI ALTERNATIVI DI SERRAGGIO

ALTERNATIVE CLAMPING OPTION

Il gruppo di serraggio a vite idraulica, è un moltiplicatore di forza manuale alternativo al gruppo di serraggio meccanico **Art. 258**; Tale dispositivo consente di applicare la medesima forza di serraggio della vite manuale con uno sforzo minore. Il mandrino a vite idraulica è azionato manualmente tramite l'apposita manovella in dotazione **Art. 290**.

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

Ruotare in senso orario il mandrino utilizzando la manovella in dotazione **Art. 290**, muovendo la 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 stantuffo **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 slip 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

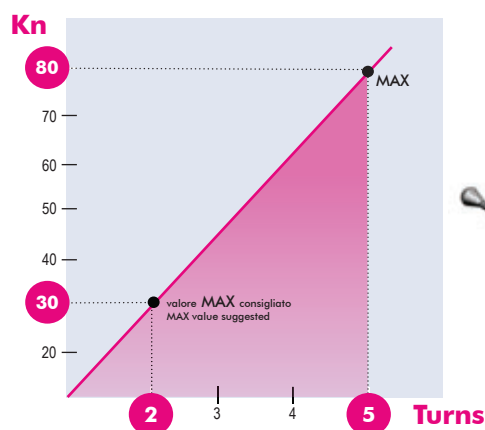
Diagrammi di serraggio meccanico con vite idraulica

Mechanical clamping diagrams with hydraulic hand screw

Morse tipo
Vises type

3-4

Autonomo - Self Contained

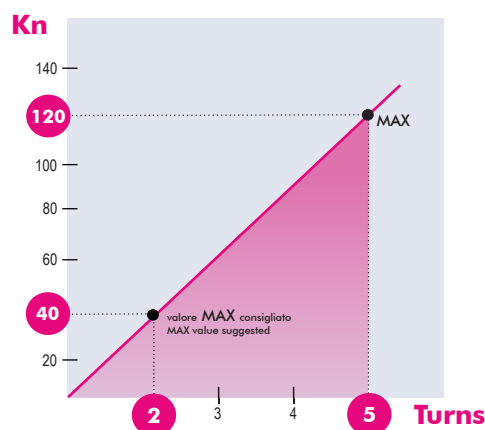


Art. 257

Morse tipo
Vises type

5-6

Autonomo - Self Contained



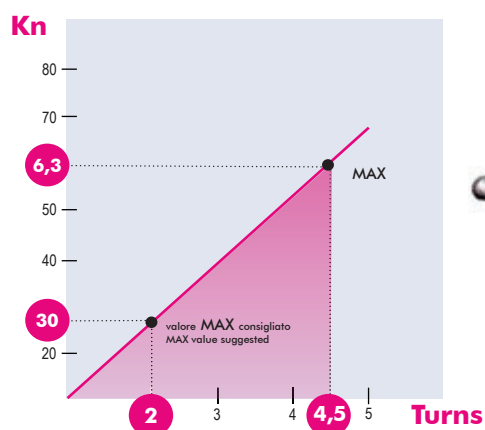
Gruppi di serraggio meccanici (Art.257 - Art.295) / Mechanical clamping devices (Art.257 - Art.295)

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
Vises type

3-4

Compatto - Compact



Art. 295

NB: Alcuni fattori, come la lubrificazione, lo staffaggio, gli attriti ed altro, possono modificare i valori indicati fino a $\pm 10\%$. Per un corretto utilizzo non superare i valori indicati nel grafico
Some factor as lubrication, clamping on the machine table, frictions and more can modify above values within a $\pm 10\%$ range. For optimum operation do not exceed chart values.

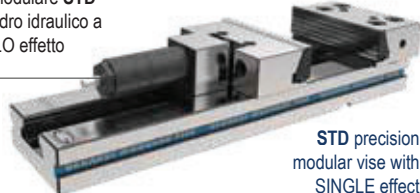
MORSE StandardMatic

Tipo (grandezza) morsa / Vise type (size)	kN	1	2	3		4			
		16 kN	25 kN	30 kN		30 kN			
Apertura massima / Maximum spread	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.	1.1E.10000	1.1E.20000	1.1E.32000	1.1E.33000	1.1E.42000	1.1E.43000	1.1E.44000	1.1E.45000

Art. 1E

Morsa modulare STD
con cilindro idraulico a
SINGOLO effetto

Art.271



STD precision
modular vise with
SINGLE effect
hydraulic cylinder

NEW
2021

Art. 393

MAX 450bar

Centralina a comando
manuale **singolo effetto**
Single effect power unit
with manual control



Cod. 4.39.34500

Art. 394

MAX 450bar

Centralina a comando
pneumatico remoto **singolo effetto**
Single effect power unit
with remote pneumatic control



Per azionare la centralina è consigliato l'uso dell' ART.402 (vedi pag.4.52)

Cod. 4.39.44500

Art. 395

MAX 450bar

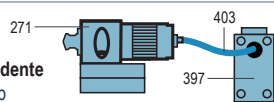
Centralina a comando
elettrico **singolo effetto**
Single effect power unit
with electrical control



Cod. 4.39.54500

Art. 407

Gruppo di serraggio **indipendente**
Independent clamping group



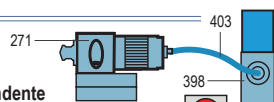
Le corse del pistone sono disponibili a pagina 4.54

Cod. 4.40.71000 4.40.72000 4.40.73000 4.40.74000

MANUAL CONTROL

Art. 407A

Gruppo di serraggio **indipendente**
Independent clamping group



Le corse del pistone sono disponibili a pagina 4.54

Cod. 4.40.7A100 4.40.7A200 4.40.7A300 4.40.7A400

CNC CONTROL

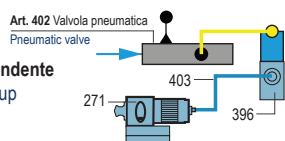
OPTIONAL: € 237



Art. 401 Pulsantiera / Pushbutton board

Art. 407B

Gruppo di serraggio **indipendente**
Independent clamping group



Cod. 4.40.7B100 4.40.7B200 4.40.7B300 4.40.7B400

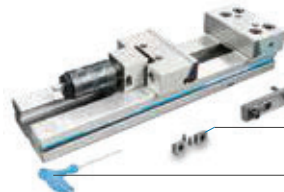
AIR CONTROL

Dotazione standard:

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

Extra per ogni foro calibrato (tolleranza F7)

- Extra per ogni chiave (tolleranza H7)



Art. 1E

Art. 370

Art. 297

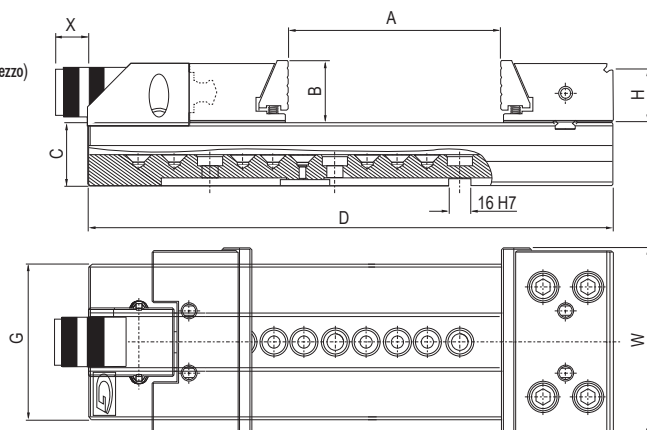
Art. 376

Standard equipment:

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

Extra charge for each calibrated hole (F7 tolerance)

- Extra charge for each calibrated key nut (F7 tolerance)

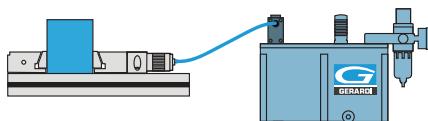


ESEMPIO D'ORDINE PER KIT COMPLETO: Art.1E (Morsa) + Art.393 (centralina a comando manuale) + Art.403 (tubo 1,5M)
COMPLETE KIT ORDER EXAMPLE: Art.1E (Vise) + Art.393 (power unit with manual control) + Art.403 (pipe 1,5M)

StandardMatic VISES

5 40 kN						6 40 kN						
A	200	300	400	500	600	200	300	400	500	600	700	800
W			200						300			
B			65						80			
C			70						78			
D	495	595	695	795	895	535	635	735	835	935	1035	1135
G			170						195			
X			64						43,5			
kg	64	69	74	79	84	95	105	115	125	135	145	155
Cod.	1.1E.52000	1.1E.53000	1.1E.54000	1.1E.55000	1.1E.56000	1.1E.62000	1.1E.63000	1.1E.64000	1.1E.65000	1.1E.66000	1.1E.67000	1.1E.68000

4.39.34500

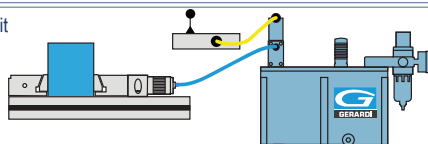
Art. 393


4.39.34500

MANUAL CONTROL

Suggest the ART.402 (see pag.4.52) to use power unit

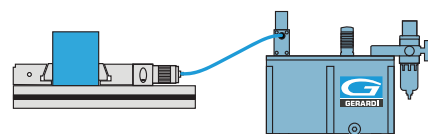
4.39.44500

Art. 394


4.39.44500

AIR CONTROL

4.39.54500

Art. 395


4.39.54500

CNC CONTROL

Piston strokes are available at page 4.54

4.40.75000

Art. 407

4.40.76000

MANUAL CONTROL

Piston strokes are available at page 4.54

4.40.7A500

Art. 407A

4.40.7A600

CNC CONTROL

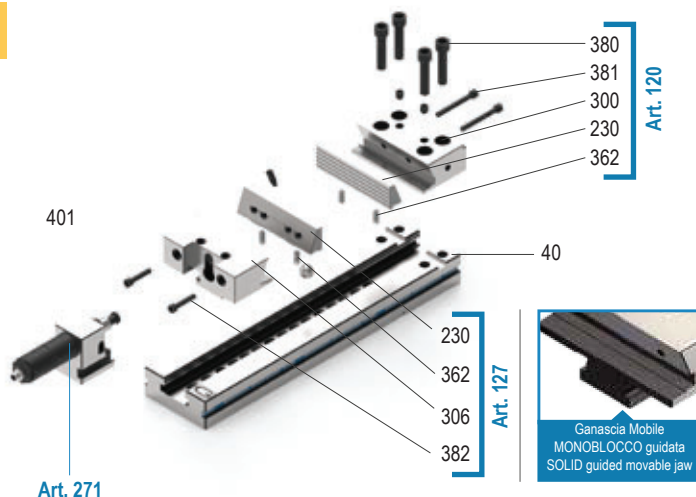
4.40.7B500

Art. 407B

4.40.7B600

 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. 1E



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

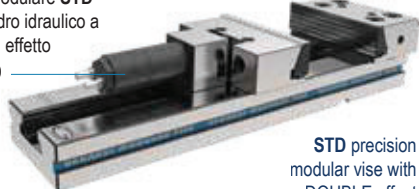

 Ganasia Mobile
 MONOBLOCCO guidata
 SOLID guided movable jaw

MORSE StandardMatic

Tipo (grandezza) morsa / Vise type (size)	kN	1	2	3		4			
		16 kN	25 kN	30 kN		30 kN			
Apertura massima / Maximum spread	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.32000	1.1F.33000	1.1F.42000	1.1F.43000	1.1F.44000	1.1F.45000

Art. 1F

Morsa modulare STD
con cilindro idraulico a
DOPPIO effetto
Art.271D



STD precision
modular vise with
DOUBLE effect
hydraulic cylinder

NEW
2021

Art. 393D MAX 450bar

Centralina a comando
manuale **doppio effetto**
Double effect power unit
with manual control



Cod. 4.39.3D450

Art. 394D MAX 450bar

Centralina a comando pneumatico
remoto **doppio effetto**
Double effect power unit with
remote pneumatic control



Per azionare la centralina è consigliato l'uso dell' ART.402 (vedi pag.4.52)

Cod. 4.39.4D450

Art. 395D MAX 450bar

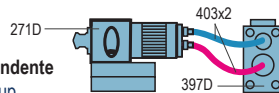
Centralina a comando
elettrico **doppio**
Power unit with **double**
electrical control



Cod. 4.39.5D450

Art. 407C

Gruppo di serraggio **indipendente**
Independent clamping group

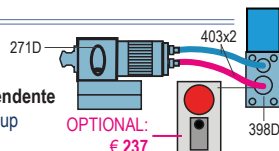


Le corse del pistone sono disponibili a pagina 4.54

Cod. 4.40.7C100 4.40.7C200 4.40.7C300 4.40.7C400

MANUAL CONTROL
Art. 407D

Gruppo di serraggio **indipendente**
Independent clamping group



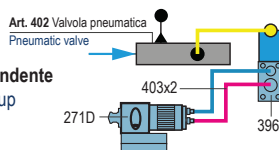
OPTIONAL:
€ 237

Le corse del pistone sono disponibili a pagina 4.54

Cod. 4.40.7D100 4.40.7D200 4.40.7D300 4.40.7D400

CNC CONTROL
Art. 407E

Gruppo di serraggio **indipendente**
Independent clamping group



Art. 402 Valvola pneumatica
Pneumatic valve

Cod. 4.40.7E100 4.40.7E200 4.40.7E300 4.40.7E400

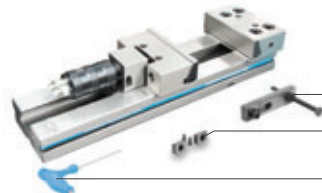
AIR CONTROL

Dotazione standard:

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

Extra per ogni foro calibrato (tolleranza F7)

- Extra per ogni chiave (tolleranza H7)



Art. 1E

Art. 370

Art. 297

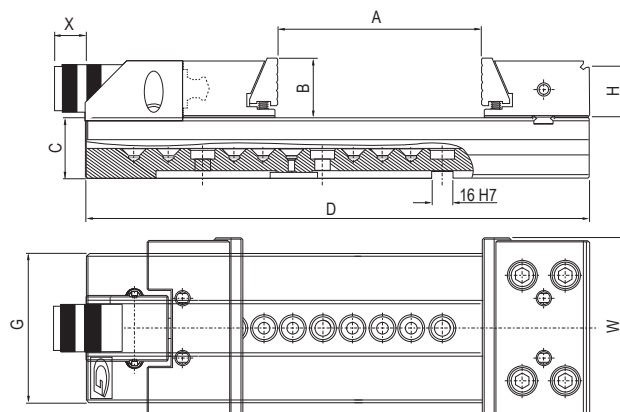
Art. 376

Standard equipment:

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

Extra charge for each calibrated hole (F7 tolerance)

- Extra charge for each calibrated key nut (F7 tolerance)

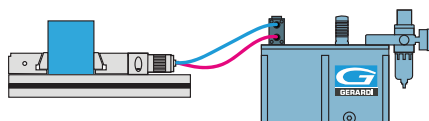


ESEMPIO D'ORDINE PER KIT COMPLETO: Art.1F (Morsa) + Art.393 (centralina a comando manuale) + Art.403 (tubo 1,5M)
COMPLETE KIT ORDER EXAMPLE: Art.1F (Vise) + Art.393 (power unit with manual control) + Art.403 (pipe 1,5M)

StandardMatic VISES

5 40 kN						6 40 kN						
A	200	300	400	500	600	200	300	400	500	600	700	800
W			200						300			
B			65						80			
C			70						78			
D	495	595	695	795	895	535	635	735	835	935	1035	1135
G			170						195			
X			64						43,5			
kg	64	69	74	79	84	95	105	115	125	135	145	155
Cod.	1.1F.52000	1.1F.53000	1.1F.54000	1.1F.55000	1.1F.56000	1.1F.62000	1.1F.63000	1.1F.64000	1.1F.65000	1.1F.66000	1.1F.67000	1.1F.68000

4.39.3D450

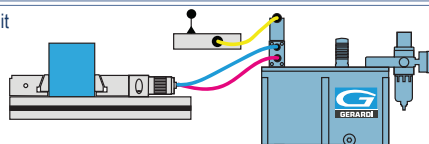
Art. 393


4.39.3D450

MANUAL CONTROL

Suggest the ART.402 (see pag. 4.52) to use power unit

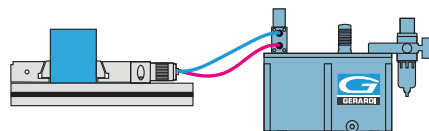
4.39.4D450

Art. 394


4.39.4D450

AIR CONTROL

4.39.5D450

Art. 395


4.39.5D450

CNC CONTROL

Piston strokes are available at page 4.54

4.40.7C500

4.40.7C600

Art. 407C
MANUAL CONTROL

Piston strokes are available at page 4.54

4.40.7D500

4.40.7D600

Art. 407D
CNC CONTROL

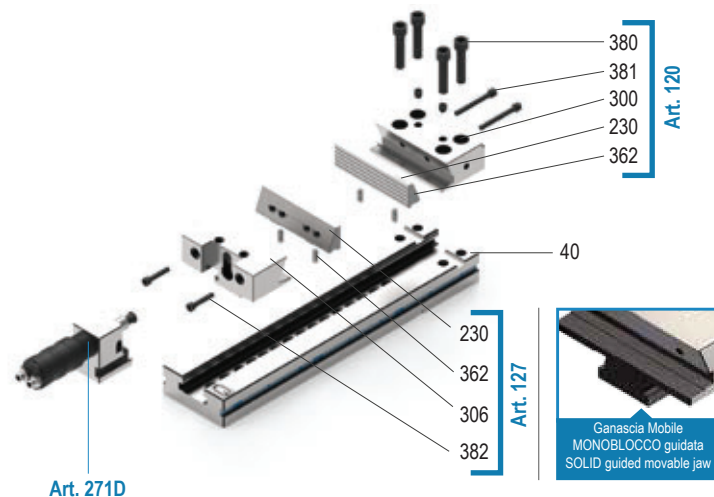
4.40.7E500

4.40.7E600

Art. 407E

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. 1F


Art. 271D

Art.	Pag.
40	1.24
230	4.9
271D	4.54
300	4.29
362	4.28
381	4.28
382	4.28

COMANDO MANUALE - MANUAL CONTROL

SINGOLO EFFETTO
SINGLE EFFECT
Tipo (grandezza) morsa / Vise type (size)
1
2
3
4
5
6

Art. 390

N° 1 serraggio
N° 1 clamping

MORSA NON COMPRESA
WISE NOT INCLUDED

403 tubo idraulico Multispiral
Hydraulic pipe Multispiral

271 cilindro idraulico
Hydraulic cylinder

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

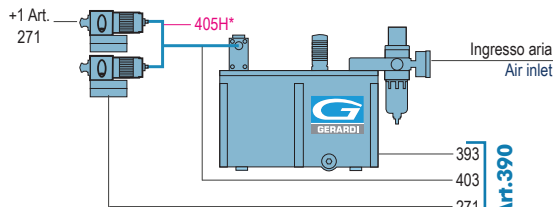
Art. 393 + Art. 271 + Art. 403 (m 1,5)

Art. 390/2

N° 2 serraggi contemporanei
N° 2 simultaneously clamping

Art. 390 + n° 1 Art. 271

+1 Art. 271


Ingresso aria
Air inlet

Cod. 4.39.01002 4.39.02002 4.39.03002 4.39.04002 4.39.05002 4.39.06002

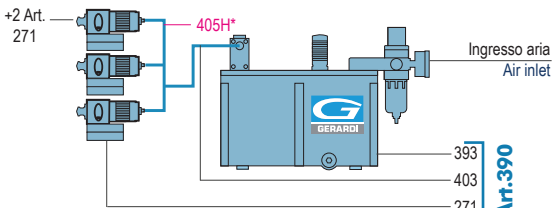
* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 390/3

N° 3 serraggi contemporanei
N° 3 simultaneously clamping

Art. 390 + n° 2 Art. 271

+2 Art. 271


Ingresso aria
Air inlet

Cod. 4.39.01003 4.39.02003 4.39.03003 4.39.04003 4.39.05003 4.39.06003

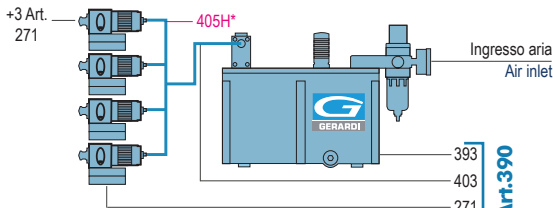
* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 390/4

N° 4 serraggi contemporanei
N° 4 simultaneously clamping

Art. 390 + n° 3 Art. 271

+3 Art. 271

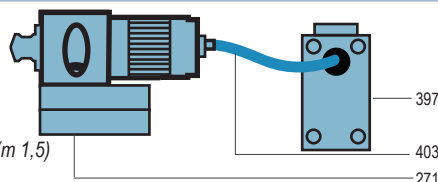

Ingresso aria
Air inlet

Cod. 4.39.01004 4.39.02004 4.39.03004 4.39.04004 4.39.05004 4.39.06004

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 407

Gruppo di serraggio indipendente
Independent clamping group

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


Cod. 4.40.71000 4.40.72000 4.40.73000 4.40.74000 4.40.75000 4.40.76000

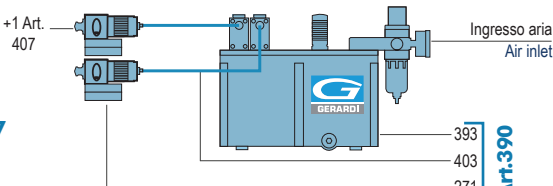
Possibilità di automatizzare tutte le morse STD / StandardFLEX / XL / Elementi modulari. (Esclusi Art.1E, Art.1F)

Art. 390A / 2

N° 2 serraggi indipendenti
N° 2 independent clamping

Art. 390 + n° 1 Art. 407

+1 Art. 407


Ingresso aria
Air inlet

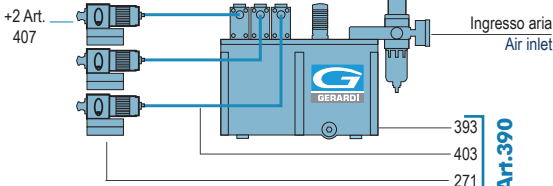
Cod. 4.39.0A102 4.39.0A202 4.39.0A302 4.39.0A402 4.39.0A502 4.39.0A602

Art. 390A / 3

N° 3 serraggi indipendenti
N° 3 independent clamping

Art. 390 + n° 2 Art. 407

+2 Art. 407


Ingresso aria
Air inlet

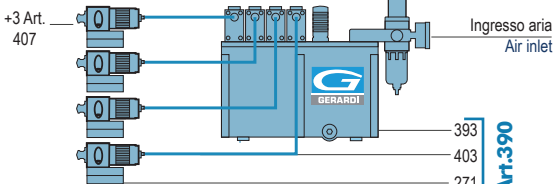
Cod. 4.39.0A103 4.39.0A203 4.39.0A303 4.39.0A403 4.39.0A503 4.39.0A603

Art. 390A / 4

N° 4 serraggi indipendenti
N° 4 independent clamping

Art. 390 + n° 3 Art. 407

+3 Art. 407


Ingresso aria
Air inlet

Cod. 4.39.0A104 4.39.0A204 4.39.0A304 4.39.0A404 4.39.0A504 4.39.0A604

COMANDO ELETTRICO - SOLENOID CONTROL

SINGOLO EFFETTO - cnc

SINGLE EFFECT da cnc

Tipo (grandezza) morsa / Vise type (size)

1

2

3

4

5

6

Art. 391

N° 1 serraggio
N° 1 clamping

MORSA NON COMPRESA
VISE NOT INCLUDED

403 tubo idraulico Multispiral

Hydraulic pipe Multispiral

271 cilindro idraulico
Hydraulic cylinder



Ingresso aria

Air inlet

395 centralina a comando elettrico
Power unit with solenoid control

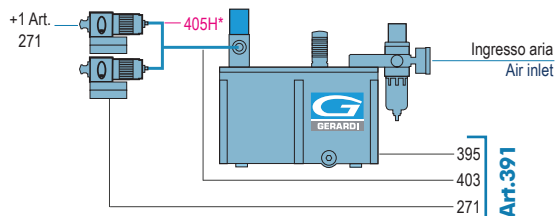
Cod. 4.39.11000 4.39.12000 4.39.13000 4.39.14000 4.39.15000 4.39.16000

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

Art. 391 / 2

N° 2 serraggi contemporanei
N° 2 simultaneously clamping

Art. 391 + n° 1 Art. 271



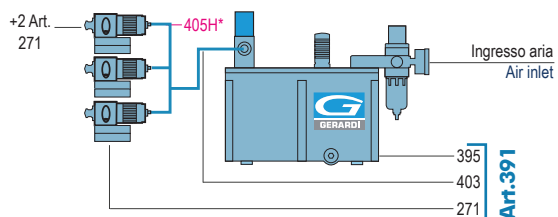
Cod. 4.39.11002 4.39.12002 4.39.13002 4.39.14002 4.39.15002 4.39.16002

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 391 / 3

N° 3 serraggi contemporanei
N° 3 simultaneously clamping

Art. 391 + n° 2 Art. 271



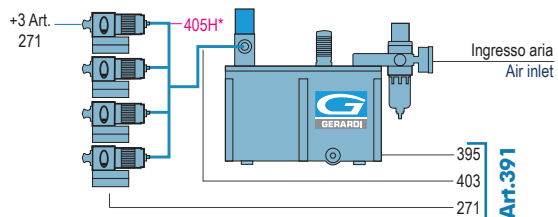
Cod. 4.39.11003 4.39.12003 4.39.13003 4.39.14003 4.39.15003 4.39.16003

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 391 / 4

N° 4 serraggi contemporanei
N° 4 simultaneously clamping

Art. 391 + n° 3 Art. 271



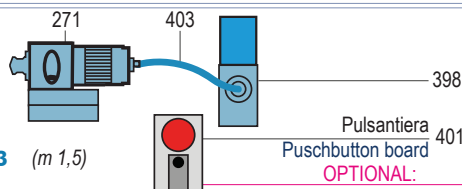
Cod. 4.39.11004 4.39.12004 4.39.13004 4.39.14004 4.39.15004 4.39.16004

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 407A

Gruppo di serraggio indipendente
Independent clamping group

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



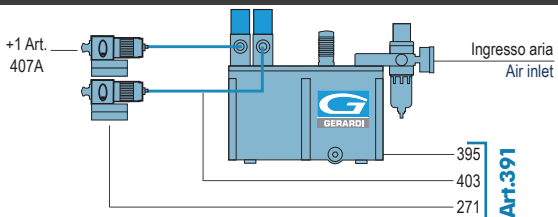
Cod. 4.40.7A100 4.40.7A200 4.40.7A300 4.40.7A400 4.40.7A500 4.40.7A600

Possibility to automate all STD / StandardFLEX / XL / Modular Element vises. (Art. 1E & Art. 1F except)

Art. 391A / 2

N° 2 serraggi indipendenti
N° 2 independent clamping

Art. 391 + n° 1 Art. 407A

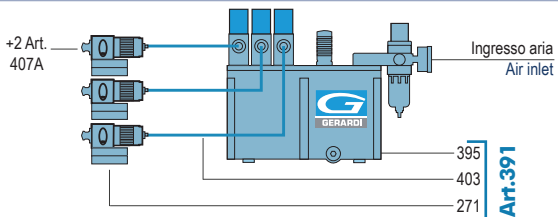


Cod. 4.39.1A102 4.39.1A202 4.39.1A302 4.39.1A402 4.39.1A502 4.39.1A602

Art. 391A / 3

N° 3 serraggi indipendenti
N° 3 independent clamping

Art. 391 + n° 2 Art. 407A

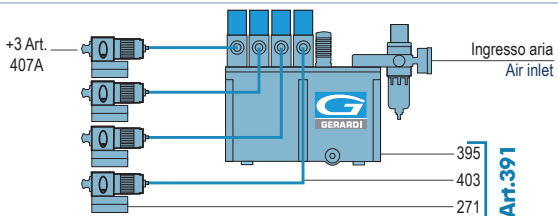


Cod. 4.39.1A103 4.39.1A203 4.39.1A303 4.39.1A403 4.39.1A503 4.39.1A603

Art. 391A / 4

N° 4 serraggi indipendenti
N° 4 independent clamping

Art. 391 + n° 3 Art. 407A



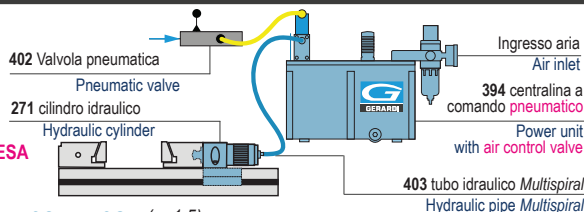
Cod. 4.39.1A104 4.39.1A204 4.39.1A304 4.39.1A404 4.39.1A504 4.39.1A604

COMANDO PNEUMATICO - PNEUMATIC CONTROL

SINGOLO EFFETTO
SINGLE EFFECT
Tipo (grandezza) morsa / Vise type (size)
1
2
3
4
5
6

Art. 392

N° 1 serraggio
N° 1 clamping

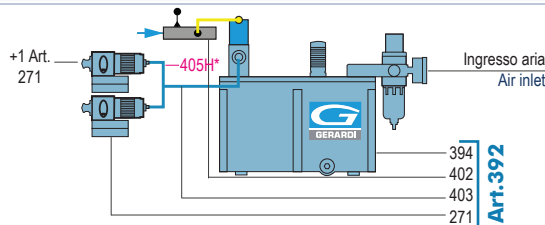
MORSA NON COMPRESA
VISE NOT INCLUDED

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

Cod. 4.39.21000 4.39.22000 4.39.23000 4.39.24000 4.39.25000 4.39.26000

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 392 / 2

N° 2 serraggi contemporanei
N° 2 simultaneously clamping

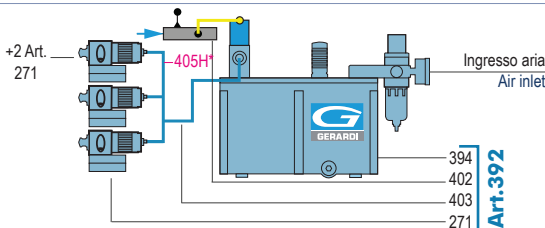
Art. 392 + n° 1 Art. 271


Cod. 4.39.21002 4.39.22002 4.39.23002 4.39.24002 4.39.25002 4.39.26002

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 392 / 3

N° 3 serraggi contemporanei
N° 3 simultaneously clamping

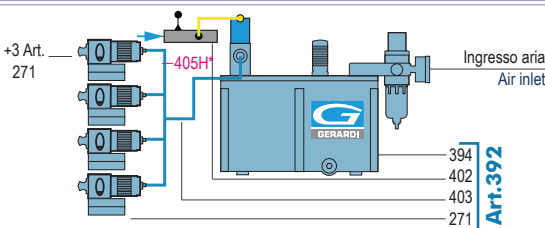
Art. 392 + n° 2 Art. 271


Cod. 4.39.21003 4.39.22003 4.39.23003 4.39.24003 4.39.25003 4.39.26003

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 392 / 4

N° 4 serraggi contemporanei
N° 4 simultaneously clamping

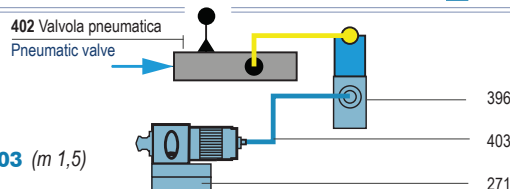
Art. 392 + n° 3 Art. 271


Cod. 4.39.21004 4.39.22004 4.39.23004 4.39.24004 4.39.25004 4.39.26004

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 407B

Gruppo di serraggio indipendente
Independent clamping group

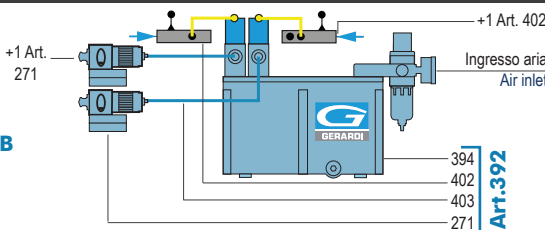
Art. 271 + 396 + 402 + 403 (m 1,5)


Cod. 4.40.7B100 4.40.7B200 4.40.7B300 4.40.7B400 4.40.7B500 4.40.7B600

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

Art. 392A / 2

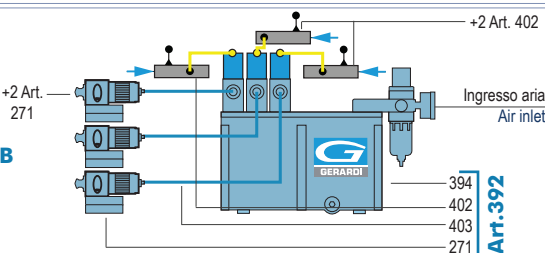
N° 2 serraggi indipendenti
N° 2 independent clamping

Art. 392 + n° 1 Art. 407B


Cod. 4.39.2A102 4.39.2A202 4.39.2A302 4.39.2A402 4.39.2A502 4.39.2A602

Art. 392A / 3

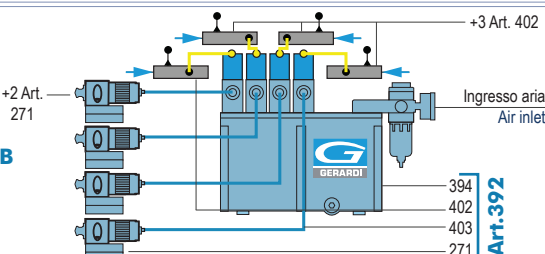
N° 3 serraggi indipendenti
N° 3 independent clamping

Art. 392 + n° 2 Art. 407B


Cod. 4.39.2A103 4.39.2A203 4.39.2A303 4.39.2A403 4.39.2A503 4.39.2A603

Art. 392A / 4

N° 4 serraggi indipendenti
N° 4 independent clamping

Art. 392 + n° 3 Art. 407B


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

ACCESSORI e RICAMBI

ACCESSORIES and SPARE PARTS

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

Art. 393

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

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



Cod. 4.39.34500

Art. 397

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

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

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



Cod. 4.39.70000

Art. 397B

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

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



Cod. 4.39.7B000

Art. 394

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

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



Cod. 4.39.44500

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

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

Art. 396

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

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



Cod. 4.39.60000

Art. 396B

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



Cod. 4.39.6B000

Art. 395

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

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



Cod. 4.39.54500

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

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

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

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

Art. 398

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

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



Cod. 4.39.80000

Art. 398B

Blocco base per comando **elettrico**
Base block for **electric** control



Cod. 4.39.8B000

COMANDO MANUALE - MANUAL CONTROL

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

Art. 390B

 N° 1 serraggio
 N° 1 clamping

MORSA NON COMPRESA
VICE NOT INCLUDED
Art.393D + Art.271D + Art.403 (m 1,5)

 403 tubo idraulico Multispiral
 Hydraulic pipe Multispiral
 271D cilindro idraulico doppio effetto
 double effect hydraulic cylinder

 Ingresso aria
 Air inlet
 393D centralina a comando manuale
 Power unit with manual control

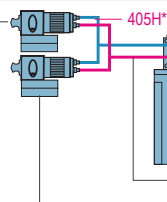
Cod. 4.39.0B100 4.39.0B200 4.39.0B300 4.39.0B400 4.39.0B500 4.39.0B600

Art. 390B/2

 N° 2 serraggi contemporanei
 N° 2 simultaneously clamping

Art. 390B + n° 1 Art.271D

+1 Art. 271D


 Ingresso aria
 Air inlet

Art.390B

Cod. 4.39.0B102 4.39.0B202 4.39.0B302 4.39.0B402 4.39.0B502 4.39.0B602

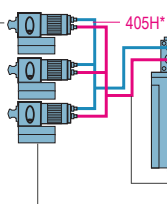
* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 390B/3

 N° 3 serraggi contemporanei
 N° 3 simultaneously clamping

Art. 390B + n° 2 Art.271D

+2 Art. 271D


 Ingresso aria
 Air inlet

Art.390B

Cod. 4.39.0B103 4.39.0B203 4.39.0B303 4.39.0B403 4.39.0B503 4.39.0B603

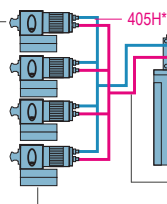
* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 390B/4

 N° 4 serraggi contemporanei
 N° 4 simultaneously clamping

Art. 390B + n° 3 Art.271D

+3 Art. 271D


 Ingresso aria
 Air inlet

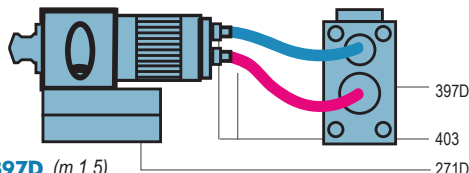
Art.390B

Cod. 4.39.0B104 4.39.0B204 4.39.0B304 4.39.0B404 4.39.0B504 4.39.0B604

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 407C

 Gruppo di serraggio indipendente
 Independent clamping group

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


Cod. 4.40.7C100 4.40.7C200 4.40.7C300 4.40.7C400 4.40.7C500 4.40.7C600

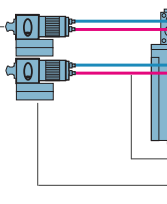
Possibilità di automatizzare tutte le morse STD / StandardFLEX / XL / Elementi modulari. (Esclusi Art.1E, Art.1F)

Art. 390C / 2

 N° 2 serraggi indipendenti
 N° 2 independent clamping

Art. 390B + n° 1 Art. 407C

+1 Art. 407C


 Ingresso aria
 Air inlet

Art.390B

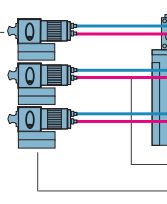
Cod. 4.39.0C102 4.39.0C202 4.39.0C302 4.39.0C402 4.39.0C502 4.39.0C602

Art. 390C / 3

 N° 3 serraggi indipendenti
 N° 3 independent clamping

Art. 390B + n° 2 Art. 407C

+2 Art. 407C


 Ingresso aria
 Air inlet

Art.390B

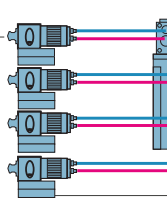
Cod. 4.39.0C103 4.39.0C203 4.39.0C303 4.39.0C403 4.39.0C503 4.39.0C603

Art. 390C / 4

 N° 4 serraggi indipendenti
 N° 4 independent clamping

Art. 390B + n° 3 Art. 407C

+3 Art. 407C


 Ingresso aria
 Air inlet

Art.390B

Cod. 4.39.0C104 4.39.0C204 4.39.0C304 4.39.0C404 4.39.0C504 4.39.0C604

COMANDO ELETTRICO - SOLENOID CONTROL

DOPPIO EFFETTO da cnc

DOUBLE EFFECT by cnc

Tipo (grandezza) morsa / Vise type (size)

1

2

3

4

5

6

Art. 391B

N° 1 serraggio
N° 1 clamping

MORSA NON COMPRESA
VISE NOT INCLUDED

403 tubo idraulico Multispiral
Hydraulic pipe Multispiral

271D cilindro idraulico doppio effetto
double effect hydraulic cylinder



Ingresso aria
Air inlet

395D centralina a comando elettrico
Power unit with solenoid control

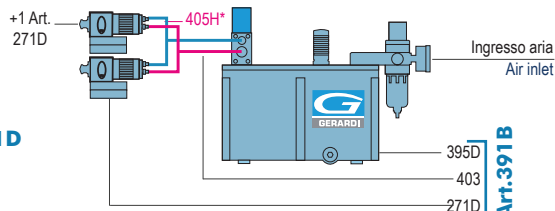
Cod. 4.39.1B100 4.39.1B200 4.39.1B300 4.39.1B400 4.39.1B500 4.39.1B600

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

Art. 391B / 2

N° 2 serraggi contemporanei
N° 2 simultaneously clamping

Art. 391B + n° 1 Art.271D



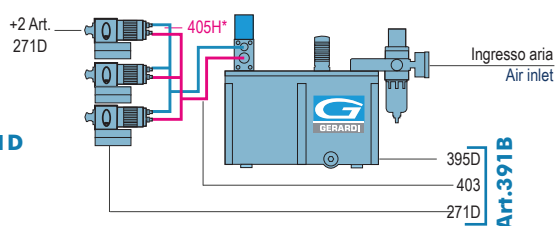
Cod. 4.39.1B102 4.39.1B202 4.39.1B302 4.39.1B402 4.39.1B502 4.39.1B602

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 391B / 3

N° 3 serraggi contemporanei
N° 3 simultaneously clamping

Art. 391B + n° 2 Art.271D



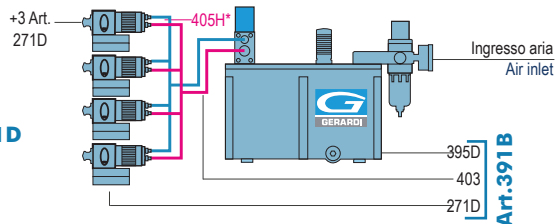
Cod. 4.39.1B103 4.39.1B203 4.39.1B303 4.39.1B403 4.39.1B503 4.39.1B603

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 391B / 4

N° 4 serraggi contemporanei
N° 4 simultaneously clamping

Art. 391B + n° 3 Art.271D



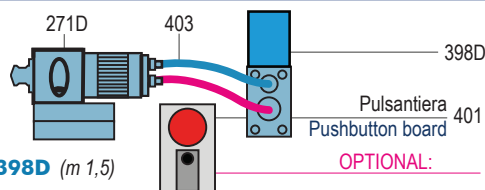
Cod. 4.39.1B104 4.39.1B204 4.39.1B304 4.39.1B404 4.39.1B504 4.39.1B604

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 407D

Gruppo di serraggio indipendente
Independent clamping group

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



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

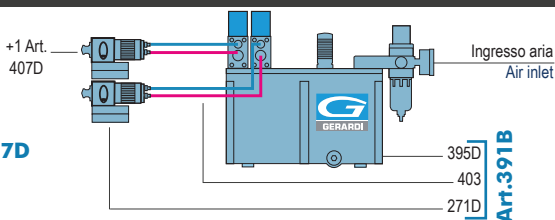
OPTIONAL:

Possibility to automate all STD / StandardFLEX / XL / Modular Element vises. (Art.1E & Art.1F except)

Art. 391C / 2

N° 2 serraggi indipendenti
N° 2 independent clamping

Art. 391B + n° 1 Art. 407D

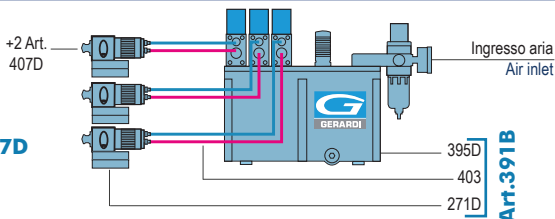


Cod. 4.39.1C102 4.39.1C202 4.39.1C302 4.39.1C402 4.39.1C502 4.39.1C602

Art. 391C / 3

N° 3 serraggi indipendenti
N° 3 independent clamping

Art. 391B + n° 2 Art. 407D

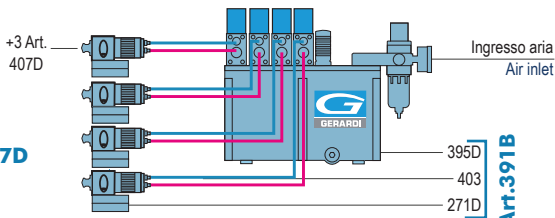


Cod. 4.39.1C103 4.39.1C203 4.39.1C303 4.39.1C403 4.39.1C503 4.39.1C603

Art. 391C / 4

N° 4 serraggi indipendenti
N° 4 independent clamping

Art. 391B + n° 3 Art. 407D



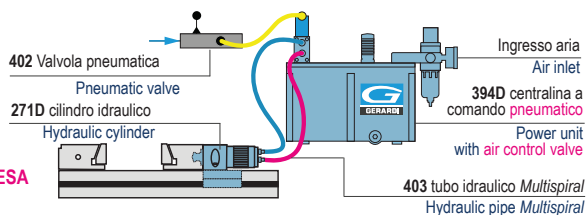
Cod. 4.39.1C104 4.39.1C204 4.39.1C304 4.39.1C404 4.39.1C504 4.39.1C604

COMANDO PNEUMATICO - PNEUMATIC CONTROL

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

Art. 392B

N° 1 serraggio
N° 1 clamping

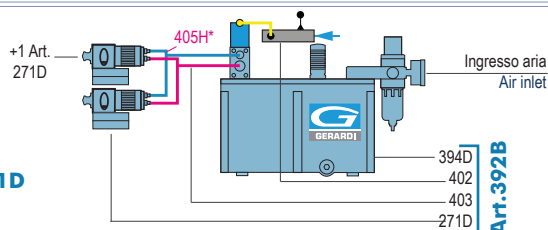
MORSA NON COMPRESA
WISE NOT INCLUDED
Art. 394D + 271D + 402 + 403 (m 1,5)


Cod. 4.39.2B100 4.39.2B200 4.39.2B300 4.39.2B400 4.39.2B500 4.39.2B600

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 392B / 2

N° 2 serraggi contemporanei
N° 2 simultaneously clamping

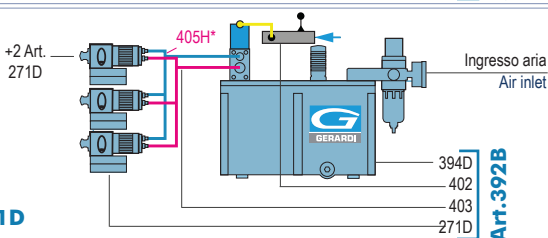
Art. 392B + n° 1 Art.271D


Cod. 4.39.2B102 4.39.2B202 4.39.2B302 4.39.2B402 4.39.2B502 4.39.2B602

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 392B / 3

N° 3 serraggi contemporanei
N° 3 simultaneously clamping

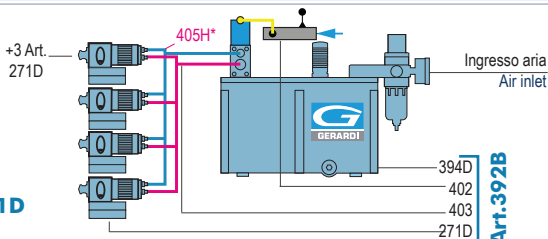
Art. 392B + n° 2 Art.271D


Cod. 4.39.2B103 4.39.2B203 4.39.2B303 4.39.2B403 4.39.2B503 4.39.2B603

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 392B / 4

N° 4 serraggi contemporanei
N° 4 simultaneously clamping

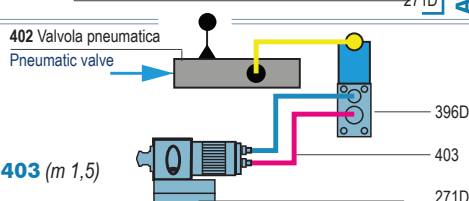
Art. 392B + n° 3 Art.271D


Cod. 4.39.2B104 4.39.2B204 4.39.2B304 4.39.2B404 4.39.2B504 4.39.2B604

* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 407E

Gruppo di serraggio indipendente
Independent clamping group

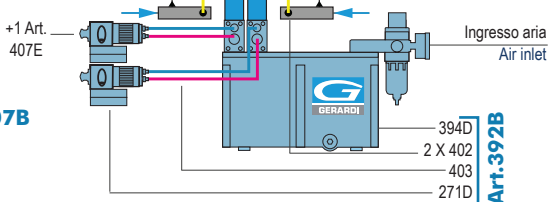
Art.271D + 396D + 402 + 403 (m 1,5)


Cod. 4.40.7E100 4.40.7E200 4.40.7E300 4.40.7E400 4.40.7E500 4.40.7E600

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

Art. 392C / 2

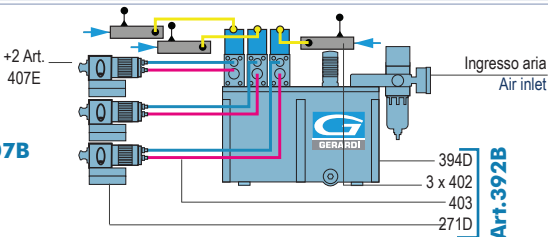
N° 2 serraggi indipendenti
N° 2 independent clamping

Art. 392B + n° 1 Art. 407B


Cod. 4.39.2C102 4.39.2C202 4.39.2C302 4.39.2C402 4.39.2C502 4.39.2C602

Art. 392C / 3

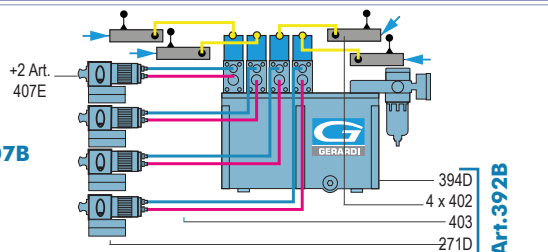
N° 3 serraggi indipendenti
N° 3 independent clamping

Art. 392B + n° 2 Art. 407B


Cod. 4.39.2C103 4.39.2C203 4.39.2C303 4.39.2C403 4.39.2C503 4.39.2C603

Art. 392C / 4

N° 4 serraggi indipendenti
N° 4 independent clamping

Art. 392B + n° 3 Art. 407B


Cod. 4.39.2C104 4.39.2C204 4.39.2C304 4.39.2C404 4.39.2C504 4.39.2C604

ACCESSORI e RICAMBI

ACCESSORIES and SPARE PARTS

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

Art. 393D

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

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



Cod. 4.39.3D450

Art. 397D

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

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

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



Cod. 4.39.7D000

Art. 397C

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

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



Cod. 4.39.7C000

Art. 394D

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

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



Cod. 4.39.4D450

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

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

Art. 396D

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

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



Cod. 4.39.6D000

Art. 396C

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



Cod. 4.39.6C000

Art. 395D

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

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



Cod. 4.39.5D450

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

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

Art. 398D

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

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



Cod. 4.39.8D000

Art. 398C

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



Cod. 4.39.8C000

ACCESSORI e RICAMBI ACCESSORIES and SPARE PARTS

Art. 399

Gruppo filtro riduttore più lubrificatore
 Compressed air preparation unit



Cod. 4.39.90000

Art. 400

Pedale bistabile
 Two positions foot pedal



Cod. 4.40.00000

Art. 401

Pulsantiera per 1 azionamento
 Puschbutton board for one control operation



Cod. 4.40.10000

Art. 402

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



Cod. 4.40.20000

Art. 402/90

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



Cod. 9.40.29000

Art. 405H

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

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



Ø 6

Cod. 4.40.5H000

Art. 403

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



Cod. 4.40.30000

€ 162

Con le centraline a DOPPIO EFFETTO l'attacco rapido NON è incluso
 With DOUBLE EFFECT power unit the quick connection is NOT included

Art. 404

Manometro 400bar
 Oil pressure gauge 400bar



Cod. 4.40.40000

SERVOCOMANDI OLEODINAMICI / HYDRAULIC SERVO UNITS

Tipo (grandezza) morsa / Vise type (size)

1

2

3

4

5

6

Art. 271

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



Cod.	2.27.11000	2.27.12000	2.27.13000	2.27.14000	2.27.15000	2.27.16000
Corsa Stroke	32	26	40			

Art. 271D

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

Cod.	2.27.1D100	2.27.1D200	2.27.1D300	2.27.1D400	2.27.1D500	2.27.1D600
Corsa Stroke	20	33	40			

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	36		
Area effettiva (cm2) effective area (cm2)	3,14	7,07	10,17		
Cod.	2.28.51000	2.28.52000	2.28.53000	2.28.55000	
Corsa Stroke	32	26	40		

Art. 569

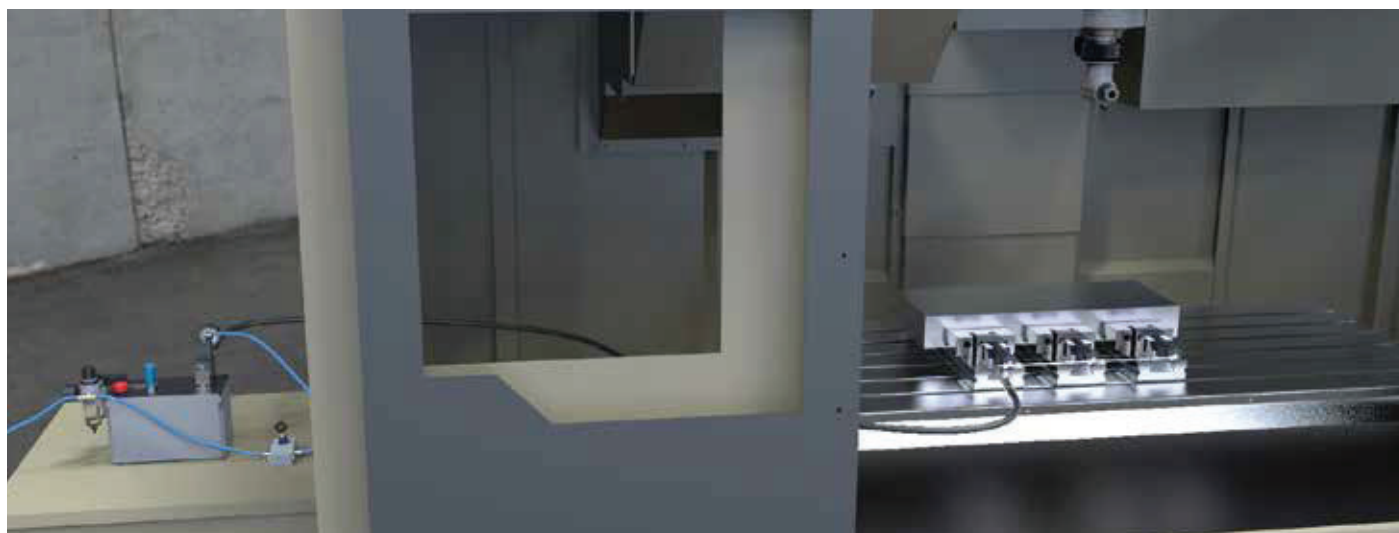
Cilindro idraulico a doppio effetto.
Apertura e chiusura idrauliche
Hydraulic cylinder double acting.
Hydraulic opening and clamping



Pressione MAX MAX pressure		450 bar - 6525 psi			
Ø Pistone Ø Piston	20	30	32		
Area effettiva (cm2) effective area (cm2)	3,14	7,07	8,04		
Cod.	1.56.91000	1.56.92000	1.56.93000	1.56.95000	
Corsa Stroke	20	33	40		

Specifico per sistemi robotizzati - Specific for robotic applications

Esempi di applicazione / Typical arrangements



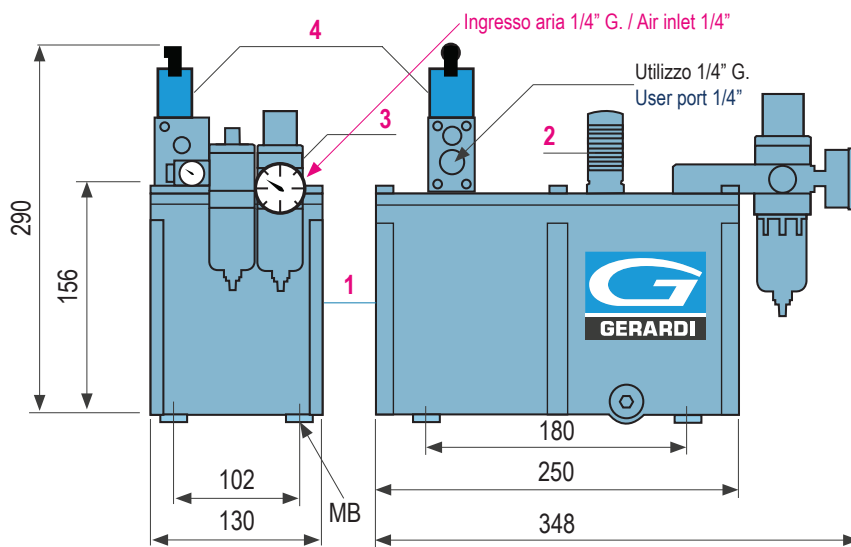
Morse Modulari di Precisione accoppiabili ed allineabili per serraggi multipli Pneumoidraulici (Serie StandardMatic)
Precision Modular vises matchable for gang operations and pneumohydraulic clamping (StandardMatic series)

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 altamente ostili come, per esempio, l'area di lavoro di macchine utensili. L'esclusivo sistema modulare di controllo del flusso idraulico permette di comandare separatamente, con una sola unità, fino a sei utilizzi distinti.

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



CARATTERISTICHE TECNICHE

SPECIFICATION

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

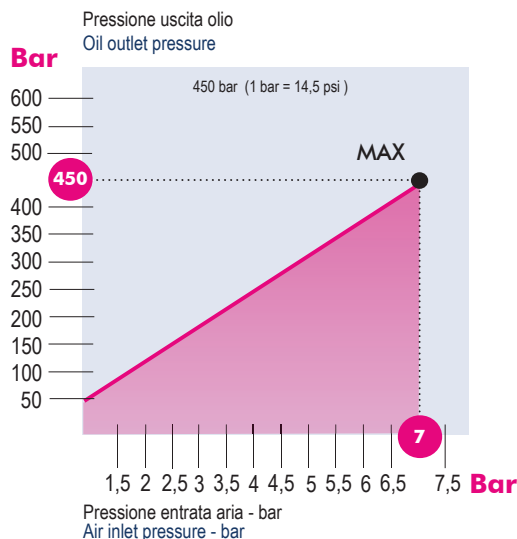
Pressione massima aria: Max permissible air pressure:	7 bar
Pressione aria consigliata: Recommended air pressure:	5,5 bar
Tipo di olio raccomandato: idraulico Recommended grade of oil: hydraulic	68 CSt
Portata Deliveries	0,9 l / min
Capacità serbatoio Tank capacity	3 l
Delta massimo su pilotaggi elettrici: 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 elettrohydraulic control:	150 bar
Numero massimo consigliato di utilizzi: Max permissible air pressure	4

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



Diagrammi di serraggio / Clamping diagrams

StandardMatic

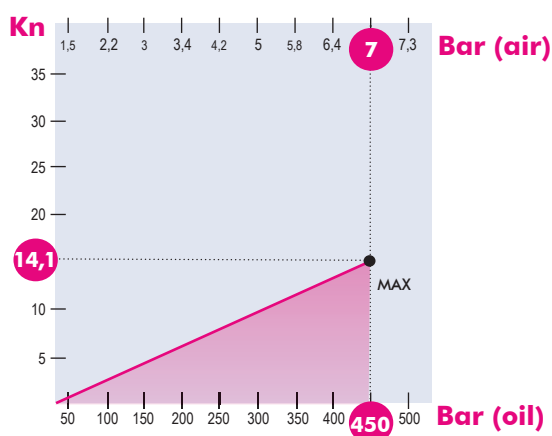
Diagrammi di serraggio pneumoidraulici ed elettroidraulici

Diagram pneumo-hydraulic and electro-hydraulic clamping

Morse tipo Vises type

1

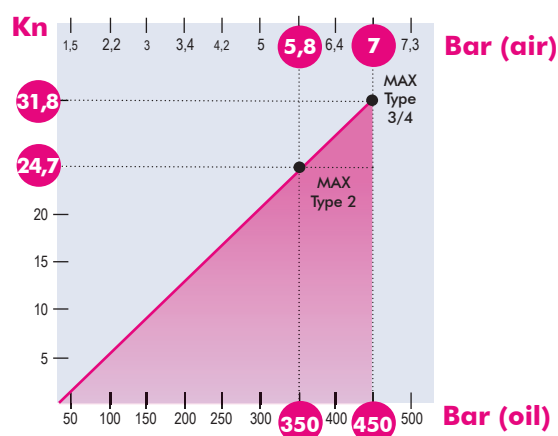
Cilindro idraulico Art. 285 - 569 Ø interno 20 mm - Superficie efficace 3,14 cm²
Hydraulic cylinder Art. 285 - 569 Cylinder I.D. 20 mm - Effective area 3,14 cm²



Morse tipo Vises type

2-3-4

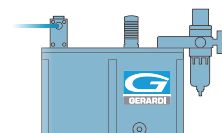
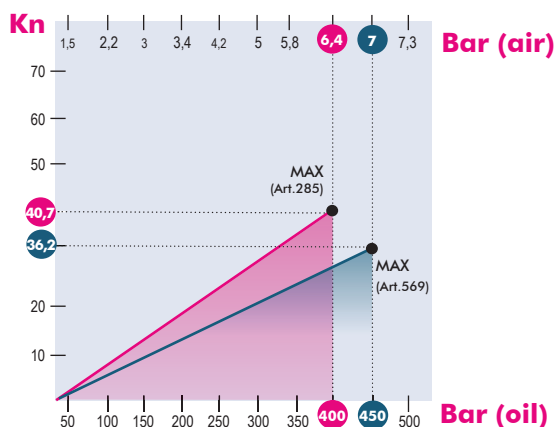
Cilindro idraulico Art. 285 - 569 Ø interno 30 mm - Superficie efficace 7,07 cm²
Hydraulic cylinder Art. 285 - 569 Cylinder I.D. 30 mm - Effective area 7,07 cm²



Morse tipo 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 $\pm 10\%$. 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 $\pm 10\%$ range. For optimum operation do not exceed chart values.