

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

STD - StandardFLEX - XL

Parti di ricambio / Spare Parts

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www.doga-usinage.fr

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VALIGETTA DI CAMPIONATURA STD / StdFLEX

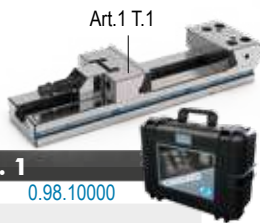
SAMPLE KIT CASE STD / StdFLEX

Art. 981

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

Morsa / Vise Art. 1

Cod. 0.98.10000



Art. 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. 985

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

Morsa / Vise Art. 1A

Cod. 0.98.50000



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 GANASCE JAW PLATES		Discendente Pull down		Discendente + inserti GRIP Pull down + GRIP inserts		Lavorabile Machineable		Cambio rapido manuale Quick manual change		GRIP integrale Integral 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	
	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 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 morsa), 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 (blocaggi 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

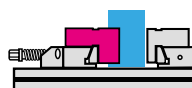
La semplicità nonché la compattezza costruttiva consentono un'apertura notevole rispetto all'ingombro totale dell'attrezzatura. Inoltre lo stesso peso (solo 25 kg per una morsa da 150 mm di larghezza ganasce) è tale da consentire un facile trasferimento da una macchina all'altra.

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

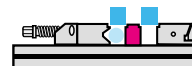
Solid guided movable jaws for round workpieces



Art.132 / 133

Prolunga per ganasce mobili e fisse

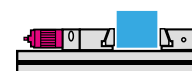
Extension for movable and fixed jaws



Art.212

Ganasce mobile intermedia con doppio gradino

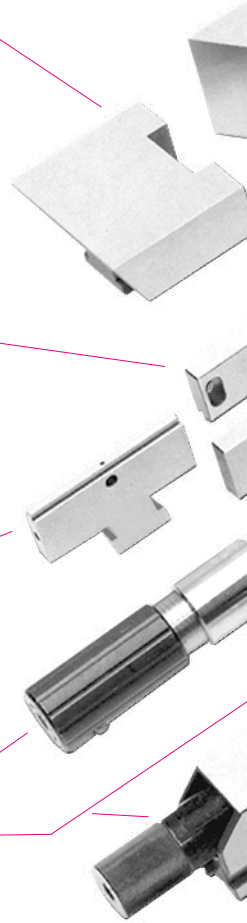
Intermediate movable jaws with double step



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



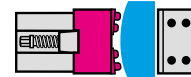
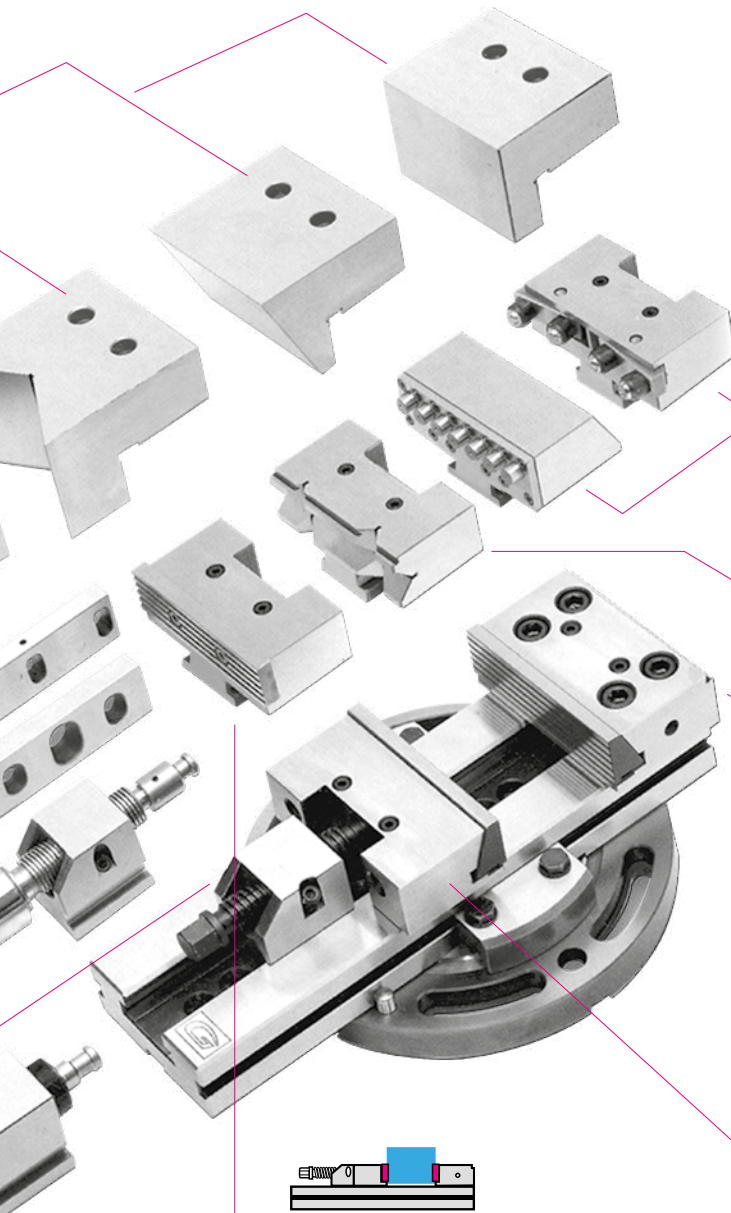
VIDEO PRESENTATION



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

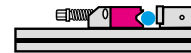
*Parallel plates, stack type & special
jaws and interchangeable
clamping devices*

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)

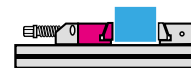
Solid guided movable prismatic jaws (for plates & round workpieces clamping)



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.

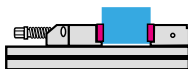
The solid standard fixed jaws with 5x5 mm back steps are matchable, if turned of 180°, to the prismatic movable jaw (Art.217) to be ordered separately.



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

4

Art. 242G
Art. 246G
Pagina / Page 4.14
Larghezza Normale e Ridotta
Normal & Narrow Width

Art. 210
Pagina
Page 4.24

Art. 160
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Art. 217
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Art. 313
Art. 314
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Normali e angolari
Normal & angular

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



Art. 230SLD
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Art. 230B
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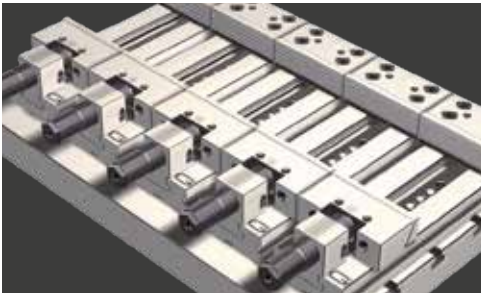
Art. 230H
Pagina
Page 4.21

Soluzioni personalizzate / Customized solutions

Standard / StdFLEX / XL

Soluzioni personalizzate a tutti i vostri problemi di serraggio

Customized solutions for all your clamping problems

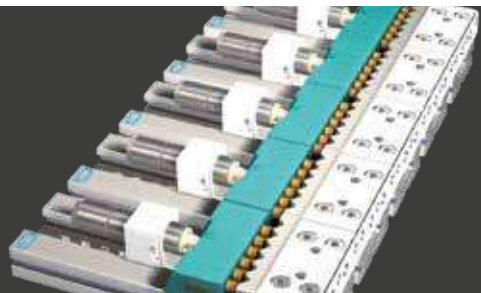


Serraggi idraulici

Hydraulic clamping

Morse Modulari di Precisione accoppiabili ed allineabili per serraggi multipli idraulici

Precision Modular vises matchable for gang operations and hydraulic clamping

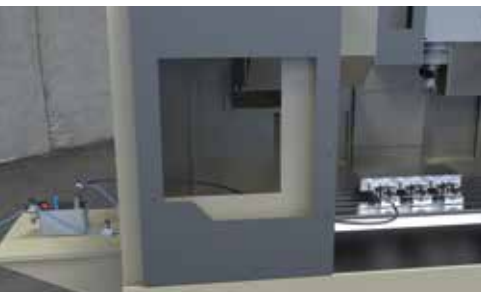


Serraggi multipli

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.

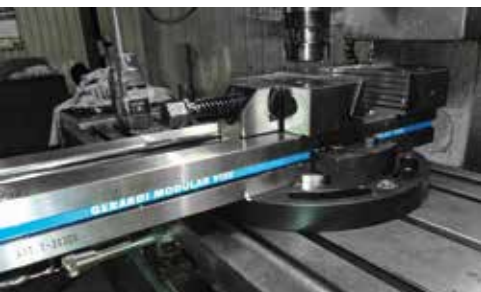


Morse StandardMatic

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

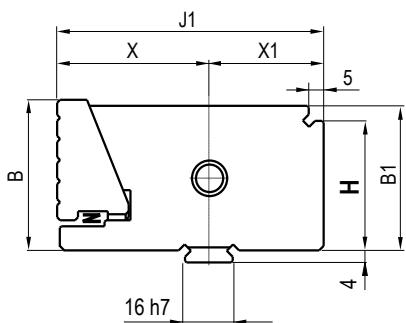
Morsa Standard con piastre ganasce a gradino con inserti Grip per un serraggio più efficace

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

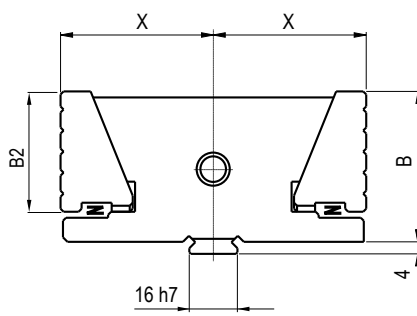
GANASCE STANDARD / STANDARD JAWS

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

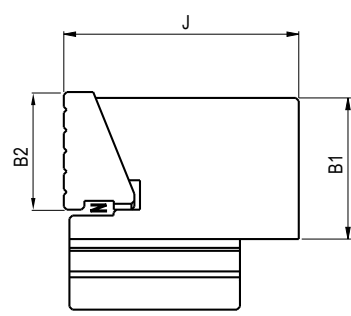
Art. 120



Art. 123



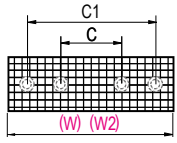
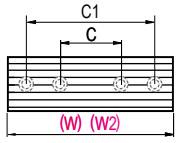
Art. 127



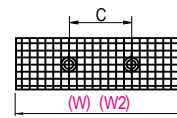
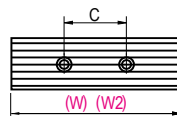
Tipo / Type	1	2	3	4	5	6
W = Jaw plate	100	125	150	175	200	300
W1 = Jaw body	75	95	125	145	170	195
W2 = Jaw plate	74	94	124	144	169	194
W3 = Jaw body	96	121	146	171	196	296
Y	21	28	41	51	61	71
Y - 1	20	27	40	50	60	70
B	30	40	50	60	65	80
B1	28	38	48	58	63	78
B2	24,5	32	39	43	53	63
* H	23	33	43	53	53	68
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
Art. 230S

 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
Art. 248S

 Per ganascia fissa doppia Art. 123 - **Larghezza normale (W)**
 For double fixed jaw Art. 123 - **Normal width (W)**
Art. 249
Art. 249S

 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
Art. 232

 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

 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

 Per ganascia fissa doppia Art. 123 - **Larghezza normale (W)**
 For double fixed jaw Art. 123 - **Normal width (W)**
Art. 251

 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)
Art. 234

 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

 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

 Per ganascia fissa doppia Art. 123 - **Larghezza normale (W)**
 For double fixed jaw Art. 123 - **Normal width (W)**
Art. 253

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

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

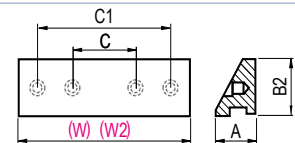
Cod. Art. 231	1.65.11000	1.65.21000	1.65.31000	1.65.41000	1.65.51000	1.65.61000
Cod. Art. 231S	4.23.1S100	4.23.1S200	4.23.1S300	4.23.1S400	4.23.1S500	4.23.1S600

ATTENZIONE - ATTENTION:

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

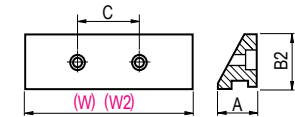
Cod. Art. 248	1.65.14000	1.65.24000	1.65.34000	1.65.44000	1.65.54000	1.65.64000
Cod. Art. 248S	4.24.8S100	4.24.8S200	4.24.8S300	4.24.8S400	4.24.8S500	4.24.8S600

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



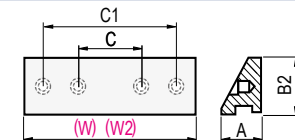
Cod. Art. 232	1.65.10100	1.65.20100	1.65.30100	1.65.40100	1.65.50100	1.65.60100
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Cod. Art. 233	1.65.11100	1.65.21100	1.65.31100	1.65.41100	1.65.51100	1.65.61100
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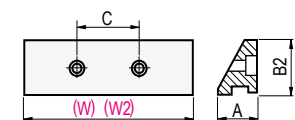
Cod. Art. 250	1.65.14100	1.65.24100	1.65.34100	1.65.44100	1.65.54100	1.65.64100
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Cod. Art. 251	1.65.15100	1.65.25100	1.65.35100	1.65.45100	1.65.55100	1.65.65100
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Cod. Art. 234	1.65.10200	1.65.20200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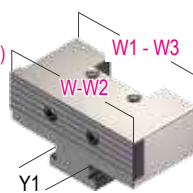
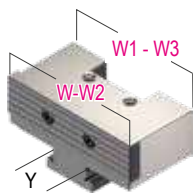
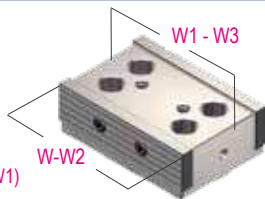
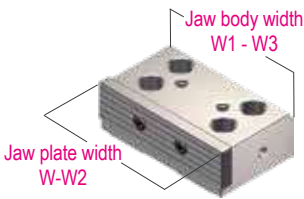
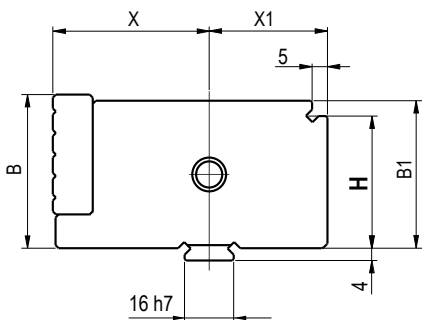
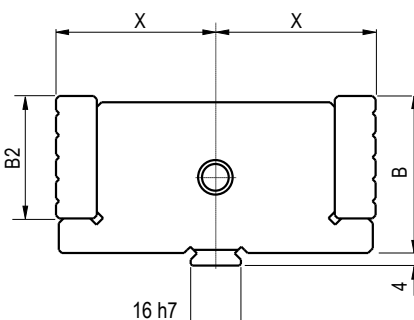
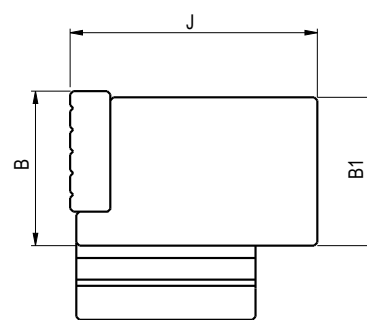
Cod. Art. 252	1.65.14200	1.65.24200	1.65.34200	1.65.44200	1.65.54200	1.65.64200
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Cod. Art. 253	1.65.15200	1.65.25200	1.65.35200	1.65.45200	1.65.55200	1.65.65200
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GANASCE CON PIASTRE PIANE / STRAIGHT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

Tipo (grandezza) morsa / Vise type (size)

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


Art. 140

Art. 143

Art. 146


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

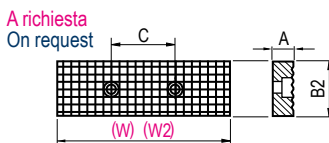
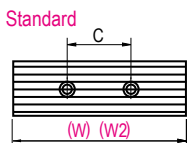
* DIMENSIONE DA ACCOPPIARE AD Art. 212 + 217 + 214 - DIMENSION TO BE MATCHED WITH Art. 212 + 217 + 214

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


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


Art. 242
Art. 242S

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

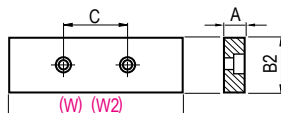
W	100	125	150	175	200	300
W2	74	94	124	144	169	194
A	12	12	13	13	18	18
B2	24,5	32	40	43	48	56
C	25	32	50	50	76	90

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

Art. 243
Art. 243S

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

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

PIASTRE PIANE LISCE TEMPRATE
HARDENED SMOOTH STRAIGHT JAW PLATES

Art. 244

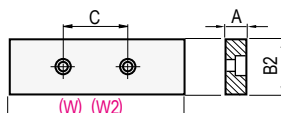
 Per ganascia fissa e mobile - Art. 140, 143, 146 - **Larghezza normale (W)**
 For fixed and movable jaw - Art. 140, 143, 146 - **Normal width (W)**

Cod. Art. 244	4.24.41000	4.24.42000	4.24.43000	4.24.44000	4.24.45000	4.24.46000
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Art. 245

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

Cod. Art. 245	4.24.51000	4.24.52000	4.24.53000	4.24.54000	4.24.55000	4.24.56000
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PIASTRE PIANE IN ACCIAIO LAVORABILE (DOLCE)
MACHINEABLE STEEL STRAIGHT JAW PLATES (SOFT HRC)

Art. 246

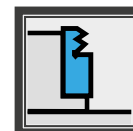
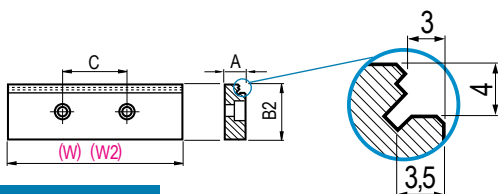
 Per ganascia fissa e mobile - Art. 140, 143, 146 - **Larghezza normale (W)**
 For fixed and movable jaw - Art. 140, 143, 146 - **Normal width (W)**

Cod. Art. 246	1.65.16200	1.65.26200	1.65.36200	1.65.46200	1.65.56200	1.65.66200
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Art. 247

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

Cod. Art. 247	1.65.17200	1.65.27200	1.65.37200	1.65.47200	1.65.57200	1.65.67200
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PIASTRE PIANE TEMPRATE GRIP
HARDENED STRAIGHT JAW PLATES GRIP

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

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

Cod. Art. 246T	4.24.6T100	4.24.6T200	4.24.6T300	4.24.6T400	4.24.6T500	4.24.6T600
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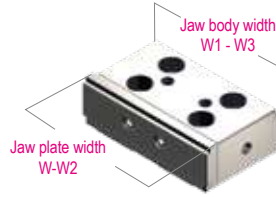
Art. 247T

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

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

Tipo (grandezza) morsa / Vise type (size)
Art. 140T

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


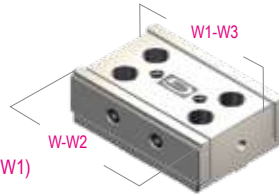
Cod.	2.14.0T100	2.14.0T200	2.14.0T300	2.14.0T400	2.14.0T500	2.14.0T600
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Art. 141T

 Ganasia fissa GRIP.
Larghezza ridotta rettificata (W2) - (W1)
 Fixed GRIP jaw. **Narrow width ground (W2) - (W1)**

Cod.	2.14.1T100	2.14.1T200	2.14.1T300	2.14.1T400	2.14.1T500	2.14.1T600
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Art. 143T

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


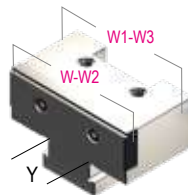
Cod.	2.14.3T100	2.14.3T200	2.14.3T300	2.14.3T400	2.14.3T500	2.14.3T100
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Art. 144T

 Ganasia fissa doppia. **Larghezza ridotta rettificata (W2) - (W1)**
 Double fixed jaw. **Narrow width ground (W2) - (W1)**

Cod.	2.14.4T100	2.14.4T200	2.14.4T300	2.14.4T400	2.14.4T500	2.14.4T600
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Art. 146T

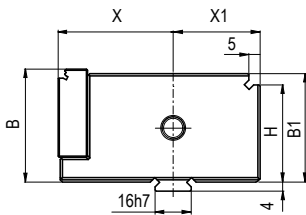
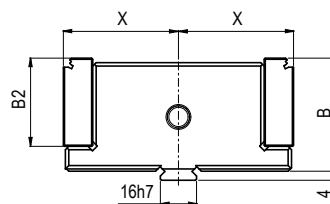
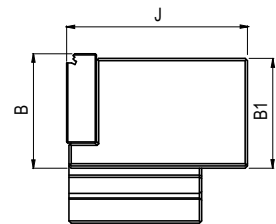
 Ganasia mobile monoblocco guidata.
Larghezza normale (W) - (W3)
 Guided movable solid jaw. **Normal width (W) - (W3)**


Cod.	2.14.6T100	2.14.6T200	2.14.6T300	2.14.6T400	2.14.6T500	2.14.6T600
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Art. 147T

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

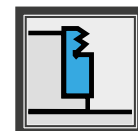
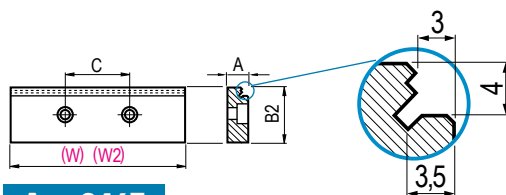
Cod.	2.14.7T100	2.14.7T200	2.14.7T300	2.14.7T400	2.14.7T500	2.14.7T600
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Art. 140T

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

PIASTRE GANASCE "GRIP" JAW PLATES

MINOR SUPERFICIE DI CONTATTO + PRESSIONE DI SERRAGGIO
LESS SURFACE CONTACT + CLAMPING PRESSURE
Art. 246T

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

Cod. Art. 246T	4.24.6T100	4.24.6T200	4.24.6T300	4.24.6T400	4.24.6T500	4.24.6T600
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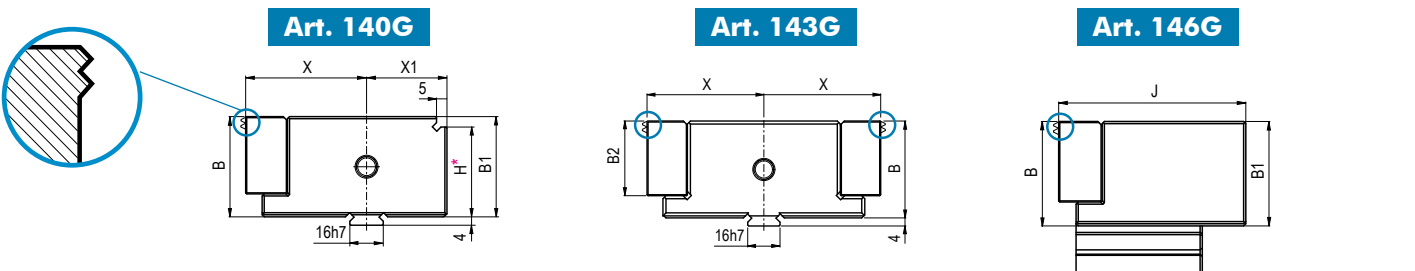
Art. 247T

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

Cod. Art. 247T	4.24.7T100	4.24.7T200	4.24.7T300	4.24.7T400	4.24.7T500	4.24.7T600
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GANASCE CON PIASTRE CON INSERTI GRIP / STRAIGHT PLATE JAWS WITH GRIP INSERTS

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 140G 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
Art. 141G 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
Art. 143G 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
Art. 144G 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
Art. 146G 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
Art. 147G 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
Art. 148G 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
Art. 149G 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



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

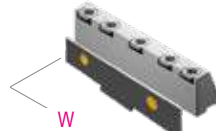
Tipo / Type	1	2	3	4	5	6
W = Jaw plate	100	125	150	175	200	300
W1 = Jaw body	75	95	125	145	170	195
W2 = Jaw plate	74	94	124	144	169	194
W3 = Jaw body	96	121	146	171	196	296
Y	21	28	41	51	61	71
Y1	20	27	40	50	60	70
B	28	38	48	58	63	78
B1	28	38	48	58	63	78
B2	24,5	30	37	42	46	54
* H	23	33	43	53	53	68
J	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)

1	2	3	4	5	6
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Art. 242G

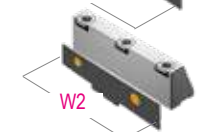
 Piastra Ganascia con Inserti GRIP. **Larghezza normale (W)**
 Jaw plate with GRIP insert. **Normal width (W)**


Cod.	1.24.2G100	1.24.2G200	1.24.2G300	1.24.2G400	1.24.2G500	1.24.2G600
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ATTENZIONE - ATTENTION:

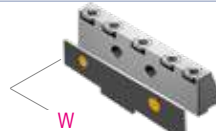
Utilizzare solo con viti posteriori ben serrate - Using only with rear screws strong clamped

Art. 243G

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


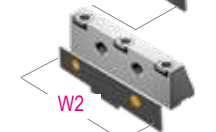
Cod.	1.24.3G100	1.24.3G200	1.24.3G300	1.24.3G400	1.24.3G500	1.24.3G600
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Art. 248G

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


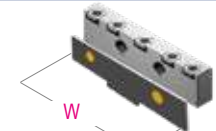
Cod.	1.24.8G100	1.24.8G200	1.24.8G300	1.24.8G400	1.24.8G500	1.24.8G600
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Art. 249G

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


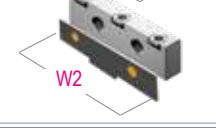
Cod.	1.24.9G100	1.24.9G200	1.24.9G300	1.24.9G400	1.24.9G500	1.24.9G600
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Art. 246G

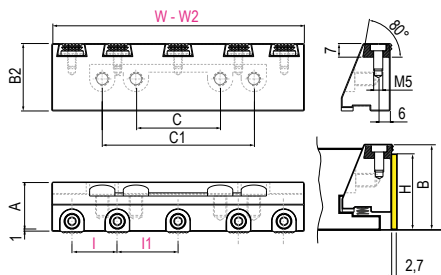
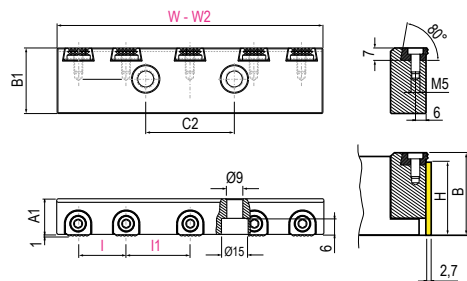
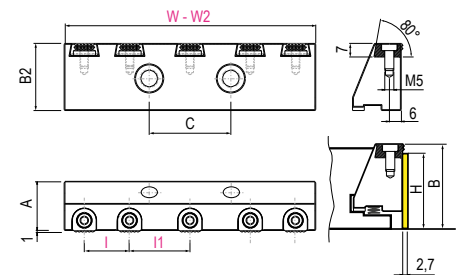
 Piastra Piana con Inserti GRIP. **Larghezza normale (W)**
 Straight Plate with GRIP inserts. **Normal width (W)**


Cod.	1.24.6G100	1.24.6G200	1.24.6G300	1.24.6G400	1.24.6G500	1.24.6G600
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Art. 247G

 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
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Art.242G

Art.246G

Art.248G

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

Art. 242G

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



Art. 243G

Larghezza ridotta
Narrow width



Art. 248G Per ganasce 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

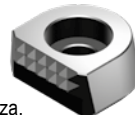
Cod. 4.22.01000 / G01



Art. 220 G02

Per materiali di notevole durezza.
For hardened workpieces clamping

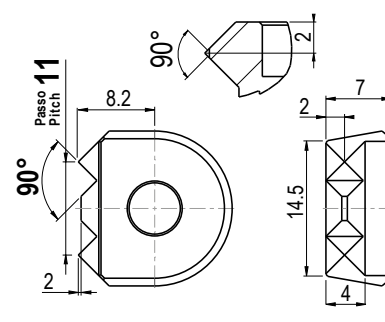
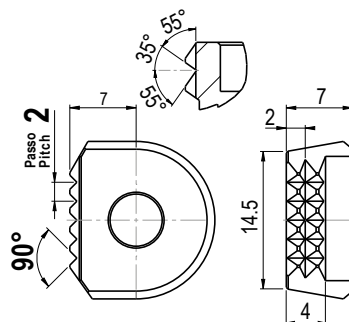
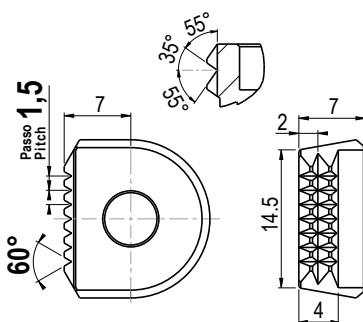
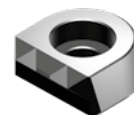
Cod. 4.22.01000 / G02



Art. 220 G11

Per materiali teneri
For soft material clamping

Cod. 4.22.01000 / G11

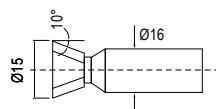


Tipo / Type	1	2	3	4	5	6
Art.242G - Art.248G - Art.246G	3 pcs each jaw plate	3 pcs each jaw plate	5 pcs each jaw plate	5 pcs each jaw plate	7 pcs each jaw plate	9 pcs each jaw plate
Art.243G - Art.249G - Art.247G	3 pcs each jaw plate	3 pcs each jaw plate	5 pcs each jaw plate	5 pcs each jaw plate	7 pcs 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



Ø	15					
Cod.	4.22.0F1510					

PIASTRE GANASCE A GRADINO INTEGRALE CON INSERTI GRIP

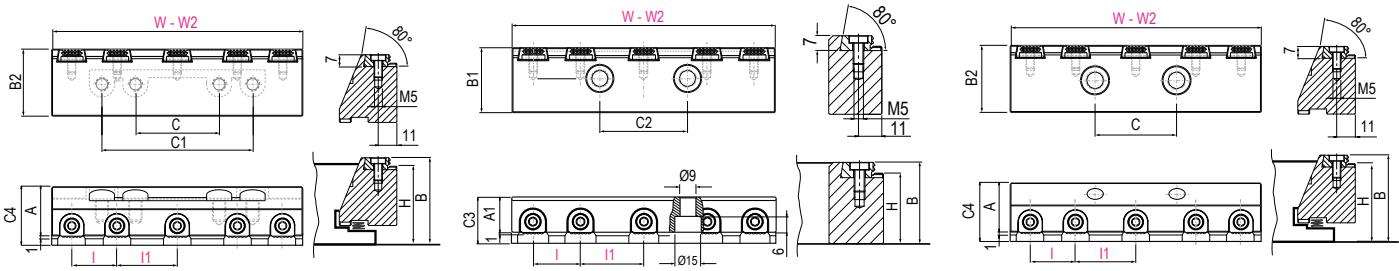
Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6
Art. 242K Piastra Ganasca a gradino con Inserti GRIP. Larghezza normale (W) Step jaw plate with GRIP insert. Normal width (W)	Cod. 1.24.2K100	1.24.2K200	1.24.2K300	1.24.2K400	1.24.2K500	1.24.2K600
Art. 243K Piastra Ganasca a gradino con Inserti GRIP. Larghezza ridotta rettificata (W1) Step jaw plate with GRIP insert. Narrow width ground (W1)	Cod. 1.24.3K100	1.24.3K200	1.24.3K300	1.24.3K400	1.24.3K500	1.24.3K600
Art. 248K Piastra Ganasca a gradino con Inserti GRIP per ganasca fissa doppia. Larghezza normale (W) Jaw plate with GRIP insert for double fixed jaw. Normal width (W)	Cod. 1.24.8K100	1.24.8K200	1.24.8K300	1.24.8K400	1.24.8K500	1.24.8K600
Art. 249K Piastra Ganasca a gradino con Inserti GRIP per ganasca fissa doppia. Larghezza ridotta rettificata (W1) Step jaw plate with GRIP insert. For double fixed jaw. Narrow width ground (W1)	Cod. 1.24.9K100	1.24.9K200	1.24.9K300	1.24.9K400	1.24.9K500	1.24.9K600
Art. 246K Piastra Piana con Inserti GRIP. Larghezza normale (W) Straight Plate with GRIP inserts. Normal width (W)	Cod. 1.24.6K100	1.24.6K200	1.24.6K300	1.24.6K400	1.24.6K500	1.24.6K600
Art. 247K Piastra Piana con Inserti GRIP. Larghezza ridotta rettificata (W1) Straight Plate with GRIP inserts. Narrow width ground (W1)	Cod. 1.24.7K100	1.24.7K200	1.24.7K300	1.24.7K400	1.24.7K500	1.24.7K600

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

Art.242K

Art.247K

Art.248K



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

Art. 242K +

A gradino con Inserti GRIP
With step and GRIP inserts



Art. 248K Per ganascia 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

Art. 220 G02

Per materiali di notevole durezza.
For hardened workpieces clamping

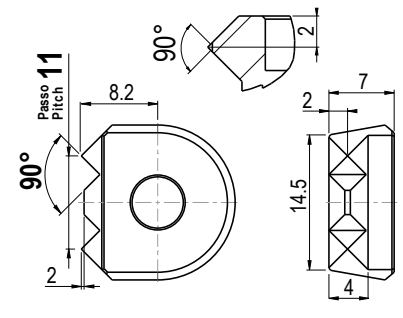
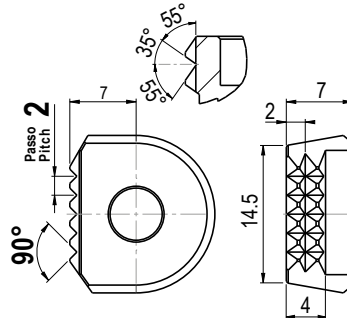
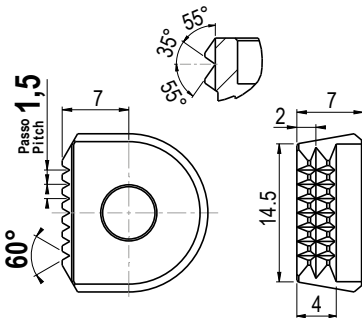
Art. 220 G11

Per materiali teneri
For soft material clamping

Cod. 4.22.01000 / G01

Cod. 4.22.01000 / G02

Cod. 4.22.01000 / G11

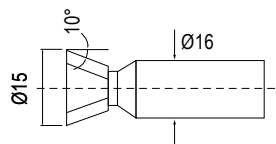


Tipo / Type	1	2	3	4	5	6
Art.242K - Art.248K - Art.246K	3 pcs each jaw plate	3 pcs each jaw plate	5 pcs each jaw plate	5 pcs each jaw plate	7 pcs each jaw plate	9 pcs each jaw plate
Art.243K - Art.249K - Art.247K	3 pcs each jaw plate	3 pcs each jaw plate	5 pcs each jaw plate	5 pcs each jaw plate	7 pcs 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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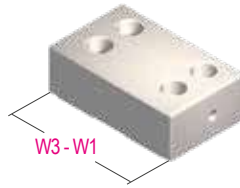
Art.220F

Utensile fresa per realizzare sedi per inserti grip su piastre ganasce dolci
Milling tool for machining the insert grip seat on machineable jaw plates



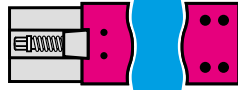
Ø	15					
Cod.	4.22.0F1510					

GANASCE LAVORABILI MONOBLOCCO / SOLID MACHINEABLE JAWS
Tipo (grandezza) morsa / Vise type (size)
Art. 160

 Ganasia 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
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Art. 161

 Ganasia 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
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Art. 163

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

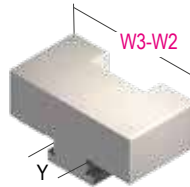

Cod.	2.16.31000	2.16.32000	2.16.33000	2.16.34000	2.16.35000	2.16.36000
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Art. 164

 Ganasia 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
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Art. 166

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


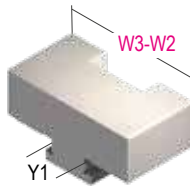
Cod.	2.16.61000	2.16.62000	2.16.63000	2.16.64000	2.16.65000	2.16.66000
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Art. 167

 Ganasia 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
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Art. 168

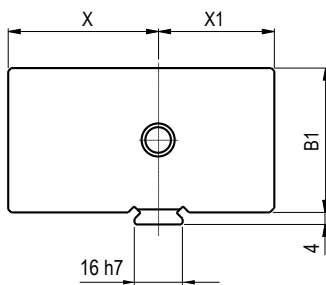
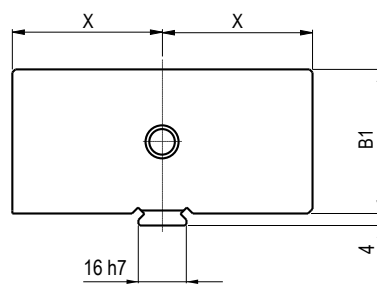
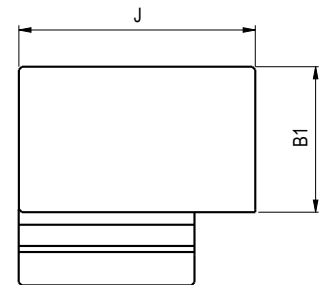
 Ganasia mobile monoblocco oscillante. **Larghezza normale (W3)**
 Floating movable solid jaw. **Normal width (W3)**


Cod.	2.16.81000	2.16.82000	2.16.83000	2.16.84000	2.16.85000	2.16.86000
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Art. 169

 Ganasia 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
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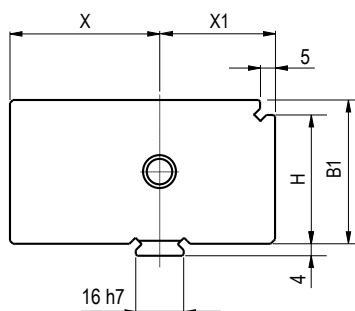
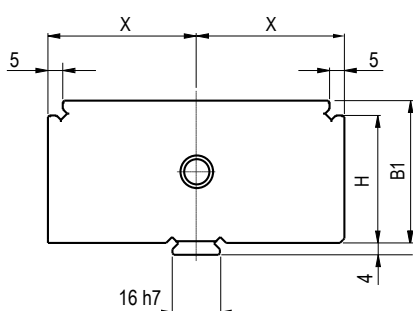
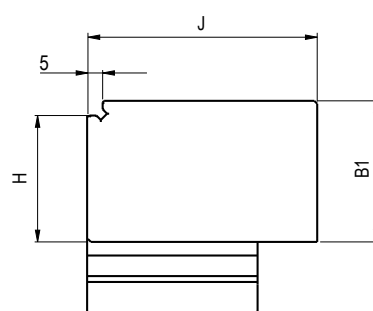
Durezza / Hardness HB= 290
Art. 160

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

Durezza / Hardness HRC= 60

Art. 200

Art. 203

Art. 208


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

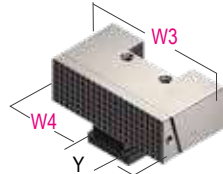

Cod. 4.12.3A100 4.12.3A200 4.12.3A300 4.12.3A400 4.12.3A500 4.12.3A600

Art. 126A

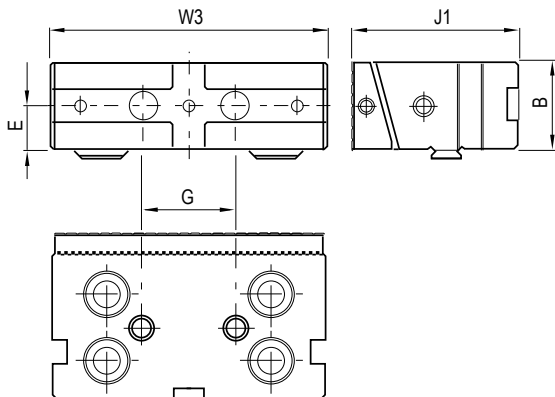
 Ganascia mobile oscillante
 Floating movable jaw


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

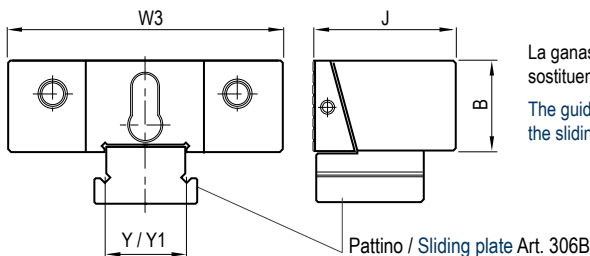
Art. 127A

 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


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


Art. 127A


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

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

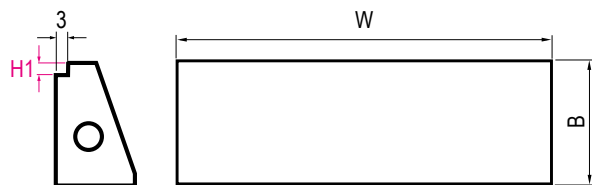
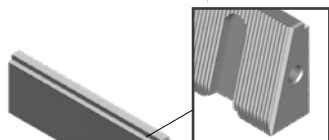
Piastre ganascia StdFLEX a cambio rapido / StdFLEX quick change jaw plates

Tipo (grandezza) morsa / Vise type (size)	1	2	3	4	5	6		
Piastre ganascie rapide singole. Ricambi per ganascie 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 ganascie 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	
	Cod.	4.23.0SLD101	4.23.0SLD201	4.23.0SLD301	4.23.0SLD401	4.23.0SLD501	4.23.0SLD601	
Art. 230SLE Piastra ganascia con gradino scaricata a pettine Discharged step comb jaw plate								
	Cod.	4.23.0SLE101	4.23.0SLE201	4.23.0SLE301	4.23.0SLE401	4.23.0SLE501	4.23.0SLE601	
Art. 230K Piastra ganascia intercambiabile a gradino a pettine con inserti 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			Ø min / max Ø min / max					
	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)	1	2	3	4	5	6
Art. 230E						
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

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



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 41% - SAVING WITH THE SET UP TO 41%

*Aggiungendo solo 2€ al set di piastre ganascia hai in regalo il portapiastre Art.320X ! - Rack Art.320X supplied with the SET with 2€ only

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

*Set	8	12	14	14	14	14
	Pezzi - Pieces	Pezzi - Pieces	Pezzi - Pieces	Pezzi - Pieces	Pezzi - Pieces	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



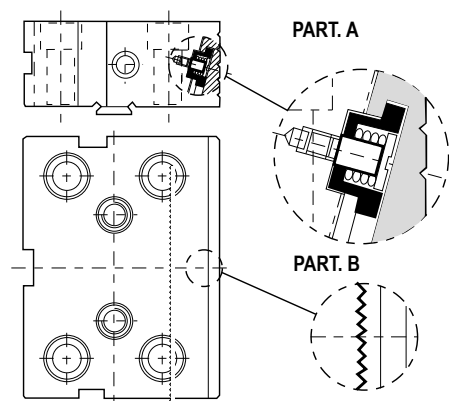
Cod. 6.60.5G201 6.60.5G202

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.

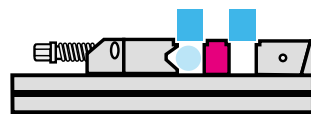
GANASCE MOBILI INTERMEDIE / INTERMEDIATE MOVABLE JAWS

Tipo (grandezza) morsa / Vise type (size)
1 2 3 4 5 6
Art. 212

 Ganaschia 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

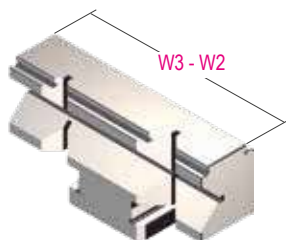
 Ganaschia mobile intermedia con doppio gradino.
 Larghezza ridotta (W2)

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

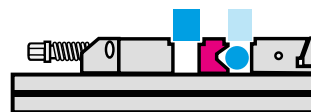
Cod. 1.21.31000 1.21.32000 1.21.33000 1.21.34000 1.21.35000 1.21.36000

Art. 214

 Ganaschia 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

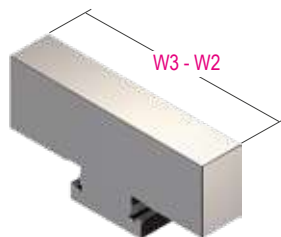
 Ganaschia mobile intermedia.
 Larghezza ridotta (W2)

 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

 Ganaschia mobile intermedia.
 Larghezza normale (W3)

 Intermediate movable jaw.
 Normal width (W3)


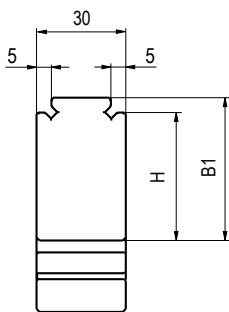
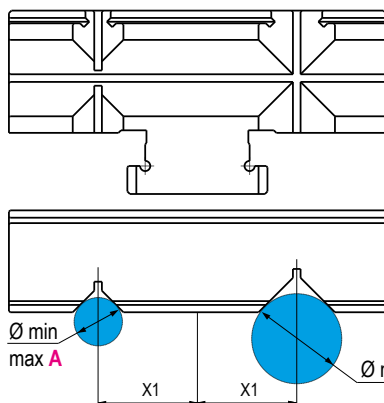
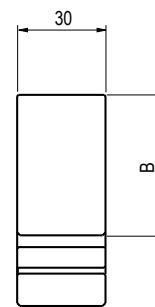
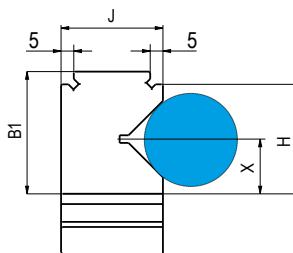
Cod. 1.22.41000 1.22.42000 1.22.43000 1.22.44000 1.22.45000 1.22.46000


Art. 225

 Ganaschia 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

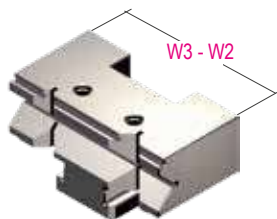
GANASCE MOBILI PRISMATICHE / PRISMATIC MOVABLE JAWS

Tipo (grandezza) morsa / Vise type (size)

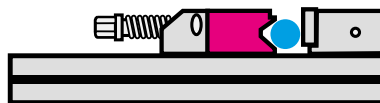
1 2 3 4 5 6

Art. 217

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



Cod. 2.21.71000 2.21.72000 2.21.73000 2.21.74000 2.21.75000 2.21.76000

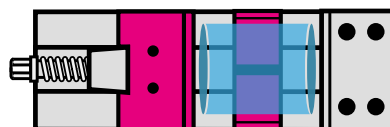


Art. 218

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



Cod. 2.21.81000 2.21.82000 2.21.83000 2.21.84000 2.21.85000 2.21.86000

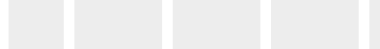


Art. 152

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



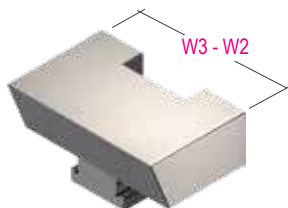
Cod. 4.15.21000 4.15.22000 4.15.23000 4.15.24000 4.15.25000 4.15.26000



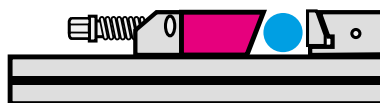
Ganasce per PARTICOLARI TONDI / Jaws for ROUND WORKPIECE

Art. 210

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



Cod. 2.21.01000 2.21.02000 2.21.03000 2.21.04000 2.21.05000 2.21.06000



Art. 211

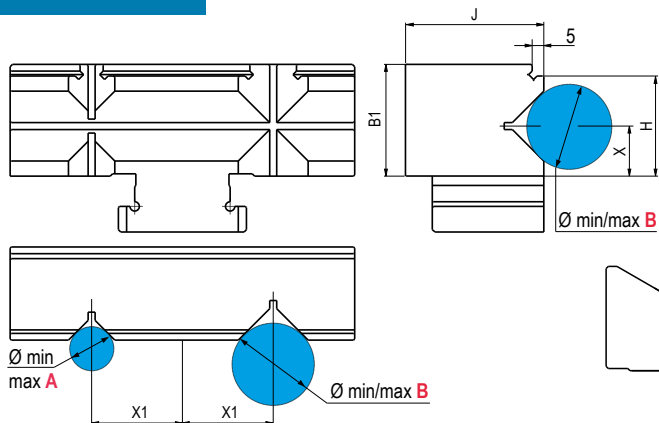
Ganascia mobile oscillante.
Larghezza ridotta (W2)
Floating movable jaw. Narrow width (W2)



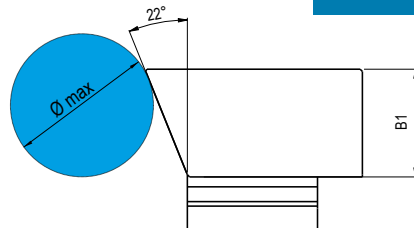
Cod. 2.21.11000 2.21.12000 2.21.13000 2.21.14000 2.21.15000 2.21.16000



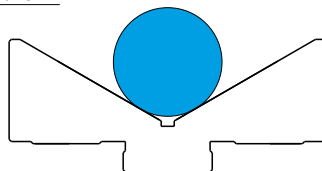
Art. 217



Art. 210



Art. 152



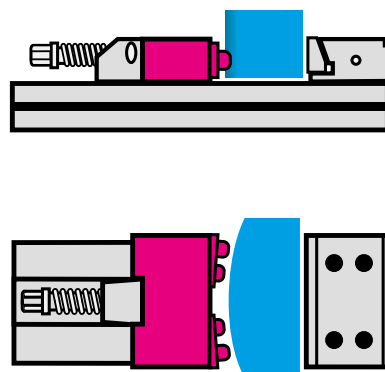
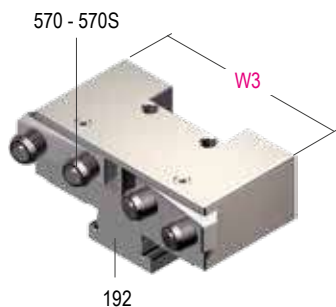
mm	1	2	3	4	5	6
W3	96	121	146	171	196	296
W2	74	94	124	144	169	194
B1	28	38	48	58	63	78
H	23	33	43	53	53	68
J	50	60	80	90	100	120
X	11,5	16,5	21,5	26,5	31,5	34
X1	25	33	39	50	50	70
Ø min / max A	Art. 217	4 - 10	7 - 18	9 - 24	9 - 24	10 - 28
Ø min / max B	Art. 217	6 - 16	9 - 24	13 - 38	15 - 40	18 - 46
Ø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

GANASCE CON SEGMENTI OSCILLANTI / MOVABLE JAW WITH FLOATING ELEMENTS

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

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

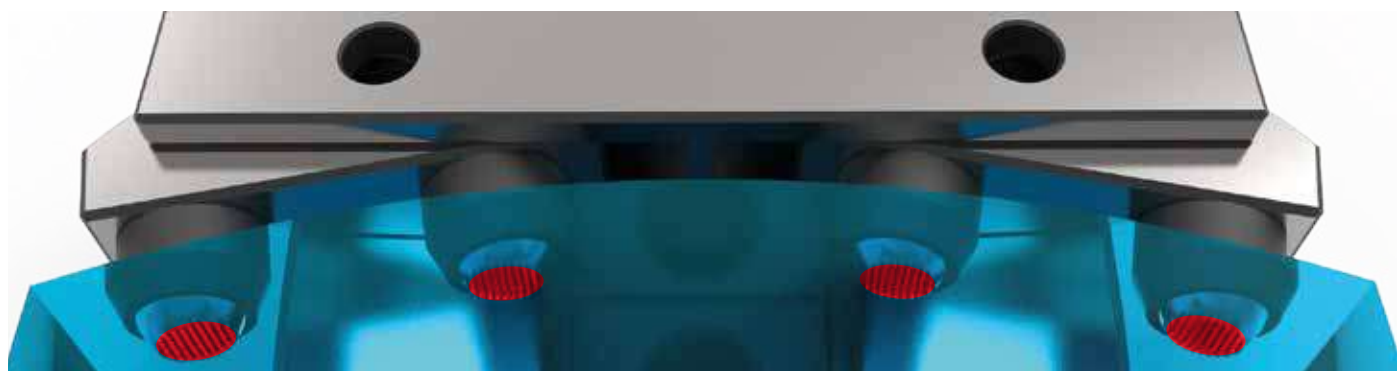


Art. 192S

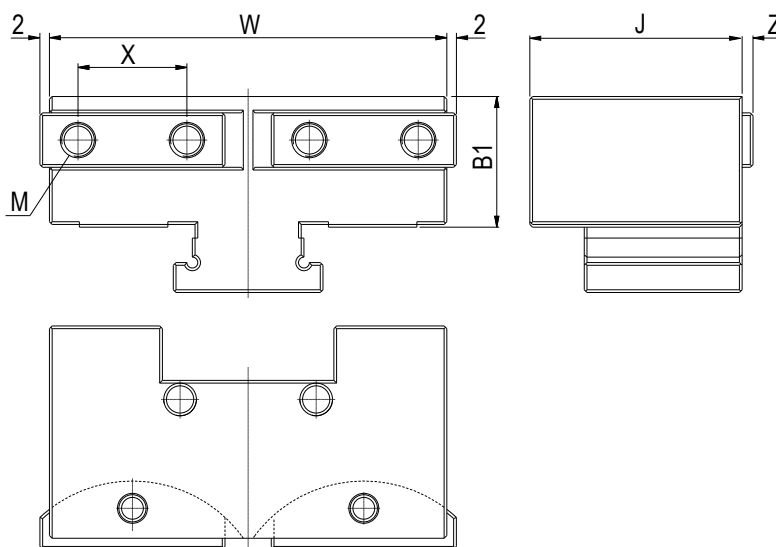
Ganascia mobile oscillante con 2 elementi oscillanti e puntali sferici zigrinati.
 Floating movable jaw with two floating elements and spherical serrated points.

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 opportunita' del sistema modulare Gerardi. Esso consente infatti il posizionamento rapido e preciso di parallele piane o angolari per la lavorazione di pezzi piatti da forare e/o filettare.

Nessun problema di magnetismo sui trucioli

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

No problem with chips magnetic

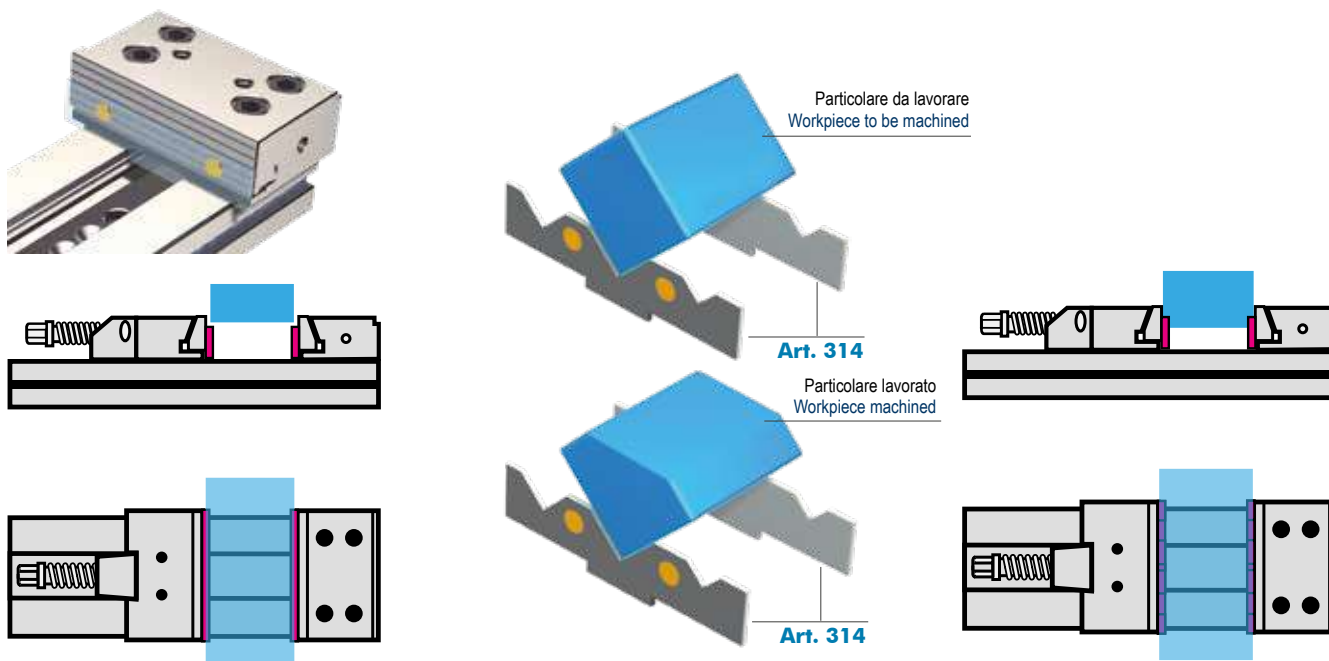
VANTAGGI:

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

ADVANTAGES:

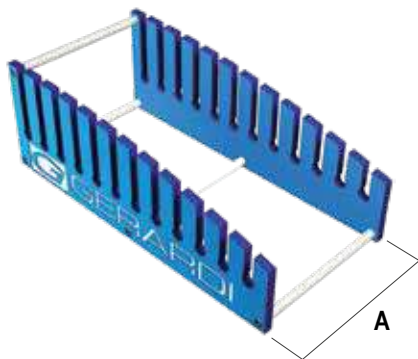
- Quick and accurate positioning.
 - Saving with respect to the substitution of the whole jaw.
 - Space and money saving with respect to the standard parallel plates.
 - Use magnetic plates with jaw plates completely tightened
- Of course each component is made of hardened and ground spring steel and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

ESEMPI DI APPLICAZIONE - TYPICAL ARRANGEMENTS



Art. 317

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



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

A	60	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)	1	2	3	4	5	6		
Art. 313								
Coppia di parallele magnetiche guidate Pair of guided parallels magnetic plates								
	H STANDARD FOR INSERT GRIP	-	-	-	20	20	30	
	H STANDARD	-	-	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	SPECIFICARE SEMPRE QUOTA "H" - ALWAYS SPECIFY "H" DIMENSION						
Coppia di parallele magnetiche guidate ridotte Pair of narrow guided parallels magnetic plates	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

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

Art. 414	SPECIFICARE SEMPRE QUOTA "H" - ALWAYS SPECIFY "H" DIMENSION						
Coppia di parallele magnetiche universali Pair of universal parallels magnetic plates	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	SPECIFICARE SEMPRE QUOTA "H" - ALWAYS SPECIFY "H" DIMENSION						
Coppia di parallele magnetiche ridotte universali Pair of universal narrow parallels magnetic plates	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

SET RISPARMIO FINO AL 43% - SAVING WITH THE SET UP TO 43%
 Aggiungendo solo 2€ netto al set di parallele hai in regalo la rastrelliera Art.317X ! - Rack Art.317X supplied with the SET with 2€ 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					



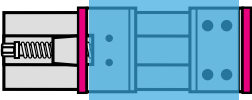






Art. 311	10 coppie di parallele - If you purchase 10 pairs of parallels plates (Art.313-313R / 414-414R)					
10 COPPIE - PAIRS						
	Prezzo Cad. se acquistate con set Price each in case of set purchase					

Tipo (grandezza) / Vise type (size)	1	2	3	4	5	6	
Art. 314							
Coppia di parallele magnetiche angolari Pair of angular magnetic parallels plates							
	α				20°		
						25°	
						30°	
						35°	
						40°	
						45°	
	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 2€ netto al set di parallele hai in regalo la rastrelliera Art.317X ! - Rack Art.317X supplied with the SET with 2€ 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					

ACCESSORI PER GANASCE / ACCESSORIES FOR JAWS

Tipo (grandezza) / Vise type (size)		1	2	3	4	5	6		
Art. 132	Prolunga per ganasca 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 ganasca mobile. Super ridotta Extension for movable jaw. Super narrow	NO StandardFLEX		Cod. 2.13.41000	2.13.42000	2.13.43000	2.13.44000	2.13.45000	2.13.46000
									
Art. 133	Prolunga per ganasca fissa. Larghezza normale Extension for fixed jaw. Normal width	NO StandardFLEX		Cod. 2.13.31000	2.13.32000	2.13.33000	2.13.34000	2.13.35000	2.13.36000
									
Art. 135	Prolunga per ganasca fissa. Ridotta e super ridotta Extension for fixed jaw. Narrow and super narrow	NO StandardFLEX		Cod. 2.13.51000	2.13.52000	2.13.53000	2.13.54000	2.13.55000	2.13.56000
									
Art. 260	Segmento oscillante per ganasce mobili. Art. 190 - 191 Floating segment for movable jaws. Art. 190 - 191	NO StandardFLEX		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	NO StandardFLEX		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 ganasca fissa Hex socket and screw for fixed jaw body	NO StandardFLEX		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 ganasca fissa Hex socket screw for fixed plate	NO StandardFLEX		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 ganasca mobile Hex socket and screw for movable jaw plate	NO StandardFLEX		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 ganasca fissa doppia Hex socket and screw for double fixed jaw	NO StandardFLEX		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	NO StandardFLEX		Cod. 0.06.11100	0.06.22200	0.06.33300	0.06.44400	0.06.55500	0.06.66600
Art. 385	Vite TCBEI fissaggio piastra ganasca piana Hex socket screw for straight-plate	NO StandardFLEX		Cod. 0.01.10510	0.01.10511	0.01.10512	0.01.10513	0.01.10514	0.01.10515
Art. 431	Rondella per arresto laterale Washer for workstop	NO StandardFLEX		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	NO StandardFLEX		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	NO StandardFLEX		Cod. 1.57.01000	1.57.03000	1.57.05000			
									
Art. 570S	Puntale sferico zigrinato Serrated spherical point	NO StandardFLEX		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	1.35.20000	1.35.30000	1.35.40000	1.35.50000	1.35.60000
Art. 301 Corpo ganascia fissa. Larghezza ridotta rettificata Body fixed jaw. Normal width ground		Cod. 1.35.10300	1.35.20300	1.35.30300	1.35.40300	1.35.50300	1.35.60300
Art. 303 Corpo ganascia fissa doppia. Larghezza normale Double body fixed jaw. Normal width		Cod. 1.35.10900	1.35.20900	1.35.30900	1.35.40900	1.35.50900	1.35.60900
Art. 304 Corpo ganascia fissa doppia. Larghezza ridotta rettificata Double body fixed jaw. Normal width ground		Cod. 1.35.11200	1.35.21200	1.35.31200	1.35.41200	1.35.51200	1.35.61200
Art. 306 Corpo ganascia mobile guidata. Larghezza normale Body guided movable jaw. Normal width		Cod. 1.36.10000	1.36.20000	1.36.30000	1.36.40000	1.36.50000	1.36.60000
Art. 302 Corpo ganascia mobile oscillante. Larghezza normale Body floating movable jaws. Normal width		Cod. 4.30.21000	4.30.22000	4.30.23000	4.30.24000	4.30.25000	4.30.26000
Art. 307 Corpo ganascia mobile guidata. Larghezza ridotta rettificata Body guided movable jaw. Narrow width ground		Cod. 1.36.11000	1.36.21000	1.36.31000	1.36.41000	1.36.51000	1.36.61000
Art. 305 Corpo ganascia mobile guidata per segmenti oscillanti. Larghezza normale Body guided movable jaw for floating elements. Normal width		Cod. 4.30.51000	4.30.52000	4.30.53000	4.30.54000	4.30.55000	4.30.56000
Art. 308 Corpo ganascia mobile oscillante per segmenti oscillanti. Larghezza normale Body floating movable jaw for floating elements. Normal width		Cod. 1.36.10400	1.36.20400	1.36.30400	1.36.40400	1.36.50400	1.36.60400
Art. 309 Corpo ganascia mobile oscillante per segmenti oscillanti. Larghezza ridotta Body floating movable jaw for floating elements. Narrow width		Cod. 1.36.10700	1.36.20700	1.36.30700	1.36.40700	1.36.50700	1.36.60700
Art. 190 Corpo ganascia mobile oscillante guidata con 2 segmenti oscillanti. Larghezza normale Body guided floating movable jaw with 2 floating segments. Normal width		Cod. 2.19.01000	2.19.02000	2.19.03000	2.19.04000	2.19.05000	2.19.06000
Art. 191 Corpo ganascia mobile oscillante guidata con 2 segmenti oscillanti. Larghezza ridotta Body guided floating movable jaw with 2 floating segments. Narrow width		Cod. 2.19.11000	2.19.12000	2.19.13000	2.19.14000	2.19.15000	2.19.16000

CORPI GANASCE PIANE / BODY - STRAIGHT JAWS

Tipo (grandezza) / Vise type (size)
1 2 3 4 5 6
Art. 315

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


Cod. 1.35.11800 1.35.21800 1.35.31800 1.35.41800 1.35.51800 1.35.61800

Art. 316

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


Cod. 1.35.12100 1.35.22100 1.35.32100 1.35.42100 1.35.52100 1.35.62100

Art. 318

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


Cod. 1.35.12700 1.35.22700 1.35.32700 1.35.42700 1.35.52700 1.35.62700

Art. 319

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


Cod. 1.35.13000 1.35.23000 1.35.33000 1.35.43000 1.35.53000 1.35.63000

Art. 321

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


Cod. 1.36.11600 1.36.21600 1.36.31600 1.36.41600 1.36.51600 1.36.61600

Art. 322

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


Cod. 1.36.12200 1.36.22200 1.36.32200 1.36.42200 1.36.52200 1.36.62200

Art. 323

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


Cod. 1.36.11300 1.36.21300 1.36.31300 1.36.41300 1.36.51300 1.36.61300

Art. 324

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


Cod. 1.36.11900 1.36.21900 1.36.31900 1.36.41900 1.36.51900 1.36.61900

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

Art. 300A

 Corpo ganascia fissa
 Fixed jaw body


Cod. 1.30.0A100 1.30.0A200 1.30.0A300 1.30.0A400 1.30.0A500 1.30.0A600

Art. 303A

 Corpo ganascia fissa doppia
 Double fixed jaw body

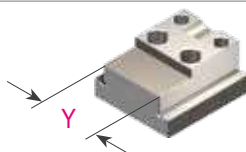

Cod. 1.30.3A100 1.30.3A200 1.30.3A300 1.30.3A400 1.30.3A500 1.30.3A600

Art. 306A

 Corpo ganascia mobile guidata
 Guided movable jaw body

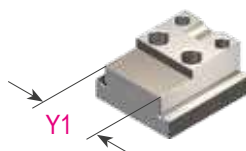

Cod. 1.30.6A100 1.30.6A200 1.30.6A300 1.30.6A400 1.30.6A500 1.30.6A600

Art. 306B

 Pattino per ganasce mobili guidate
 Sliding plate for guided movable jaw


Cod. 1.30.6B100 1.30.6B200 1.30.6B300 1.30.6B400 1.30.6B500 1.30.6B600

Art. 306C

 Pattino per ganasce mobili oscillanti
 Sliding plate for floating movable jaw


Cod. 1.30.6C100 1.30.6C200 1.30.6C300 1.30.6C400 1.30.6C500 1.30.6C600

Y1 = Y - 1mm

GRUPPI PREASSEMBLATI / PRE-ASSEMBLED GROUP

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

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

Art. 365 Anello esterno per base girevole Outer ring swivel base	Cod. 1.81.11000	1.81.21000	1.81.31000	1.81.41000	1.81.51000	1.81.61000
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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
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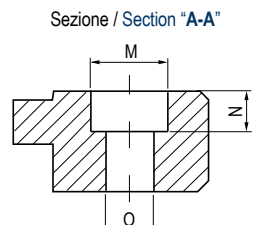
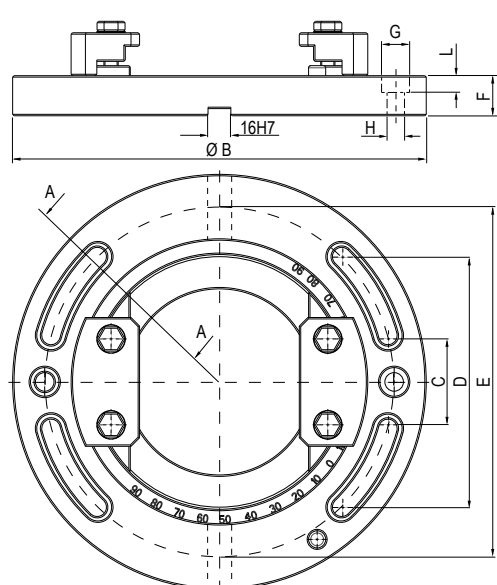
Art. 367 Staffa per base girevole Clamp swivel base	Cod. 1.84.10000	1.84.20000	1.84.30000	1.84.40000	1.84.50000	1.84.60000
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Art. 368 Spina cilindrica per base girevole Straight pin swivel base	Cod. 0.80.11000	0.80.21000	0.80.31000	0.80.41000	0.80.51000	0.80.61000
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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
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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
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Art. 105 Base girevole / Swivel base
(Art. 365 + 366 + 367 + 368 + 420 + 430)

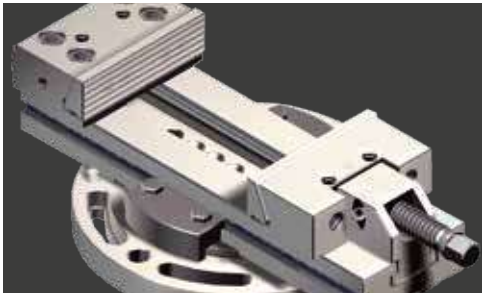


GRUPPI PREASSEMBLATI / PRE-ASSEMBLED GROUP



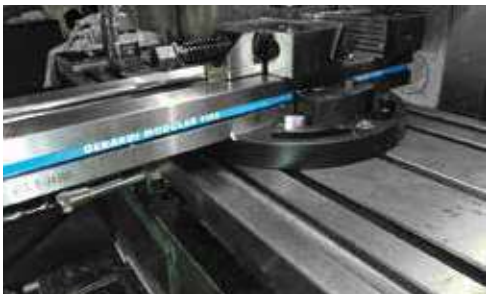
Art. 105
Art. 105

Base girevole
Swivel base



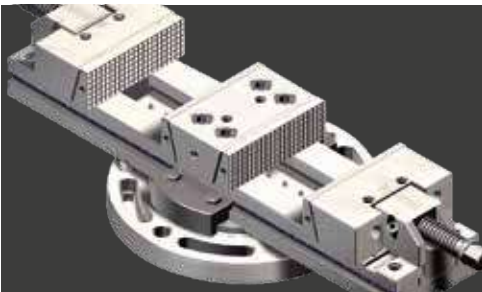
Art. 2
Art. 2

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



Art. 2
Art. 2

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



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



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



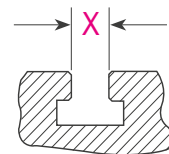
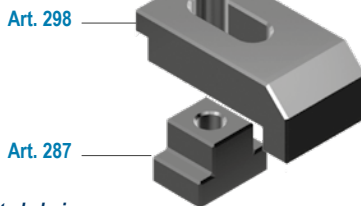
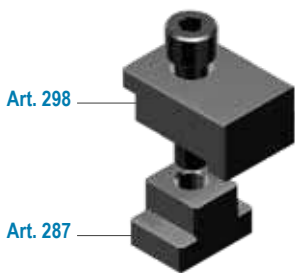
Art. 2A
Art. 2A

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

STAFFE DI ANCORAGGIO PER MORSE / VISE HOLDING CLAMPING

Art. 296

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



Specificare sempre la cava della vostra macchina

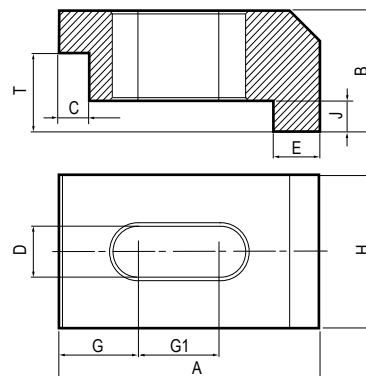
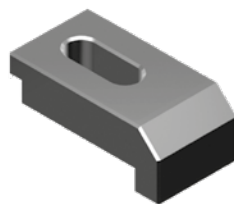
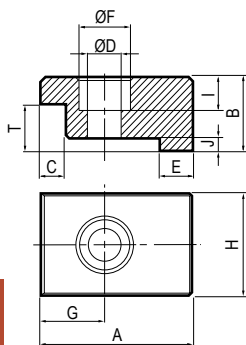
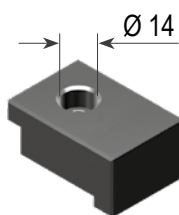
Always specify the machine T-slot dimension

* 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

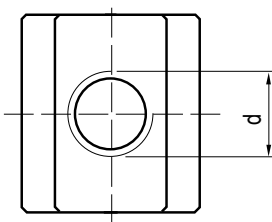
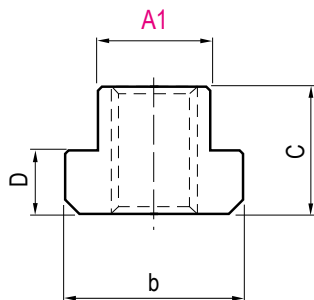
* Scelta consigliata - Suggested choice

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
ØD	8,5	11	13	17	13	17	13	17
E	10	10	10	10	13	13	15	15
ØF	14	-	-	-	-	-	-	-
G / G1	17	16 / 15	17,5 / 13	19 / 9	17 / 22	16 / 15	26 / 27	26 / 27
H	34	34	34	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	2.29.85000 / M12	2.29.85000 / M16	2.29.85000 / M12	2.29.85000 / M16

Art. 287

 Dadi per cave a T
 Nuts for T slots

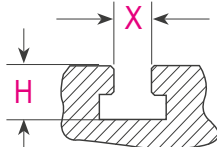
DIN 508


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

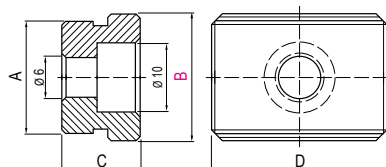
~~Scelta NON consigliata - NOT Suggested choice~~

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**



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									

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

ATTREZZI e DOTAZIONI / TOOLS and EQUIPMENT

Tipo (grandezza) morsa / Vise type (size)		1	2	3	4	5	6	
Art. 291		Ø	13,2	20,8	20,8	25,8	25,8	25,8
Tappo incavo per alloggiamento sfera <i>solo per Art.1A</i> Concave cap for sphere <i>only for Art.1A</i>		Cod.	1.29.11000	1.29.12000	1.29.13000	1.29.14000	1.29.15000	1.29.16000

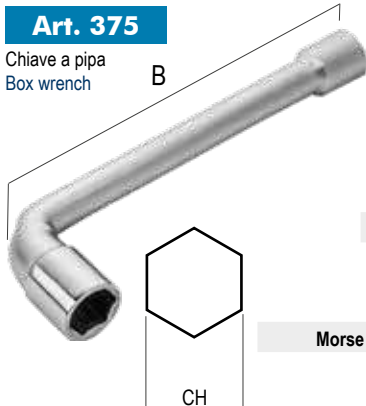
Art. 325		CH	14 - 16 - 17 - 18 - 19 - 21 - 22	24 - 27 - 30 - 32			
Chiave esagonale a bussola Hexagon bushing		Cod.	0.09.325CH	0.09.325CH			

Tipo (grandezza) morsa / Vise type (size)		0	1	2	3	4	5	6
Art. 370		Vite / Screw Staffa / Bracket	M	10	12	16		
Arresto laterale completo Complete workstop		mm	90x30x15	120x30x15	160x40x25			
Morse Standard / FMS Standard / FMS Vises		Cod.	2.37.01000	2.37.03000	2.37.05000			


Morse Multitasking Multitasking Vises	Vite / Screw Staffa / Bracket	M	6	8	10			
		mm	42x14x8	60x18x12	90x30x15			
		Cod.	7.37.01000	7.37.02000	2.37.01000			
Morse Multiflex Multiflex Vises	Vite / Screw Staffa / Bracket	M	10	10				
		mm	60x20x12	90x30x15				
		Cod.	6.37.01000	2.37.01000				


Art. 666I		Perno / Pin Staffa / Bracket	M	5	6	6	6	8	8	-
Arresto laterale morsa OK Workstop for OK vises		mm	40x16x12	55x16x12	70x20x14	70x20x14	-	90x20x18	-	-
		Cod.	7.66.61000	7.66.61100	7.66.61200	7.66.61300	7.66.61400	7.66.61500	-	-

Art. 370EM		Perno / Pin Staffa / Bracket	Ø	5	6					
Arresto laterale magnetico Magnetic workstop		mm	30x14x8	45x20x10						
		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		Morse Standard / Standard Vises		12	160	19	250	22	300	22	300	30	450	30	450
Chiave a pipa Box wrench		Cod.		4.37.512160	4.37.519250	4.37.522300	4.37.522300	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						
Vedi pag. 5.61 See pag. 5.61															
		Morse Multitasking / Multitasking Vises		12	160	16	250	16	250	-	-	-	-	-	-
		Cod.		4.37.512160	4.37.516250	4.37.516250									
Vedi pag. 7.29 See pag. 7.2															
		Morse CompactGrip - MaxiGrip / CompactGrip - MaxiGrip Vises		10	160	12	160	16	250	17	280	-	-	-	-
		Cod.		4.37.510160	4.37.512160	4.37.516250	4.37.517280								
Vedi pag. 7.29 See pag. 7.29															

Art. 376		CH	4	5	6	10
Chiave a T T wrench		Cod.	0.09.21400	0.09.22500	0.09.23600	0.09.25100

Art. 377		CH	2	2,5	3	3,5	4	4,5
Chiave esagonale serie lunga Hexagon wrench long reach		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	-

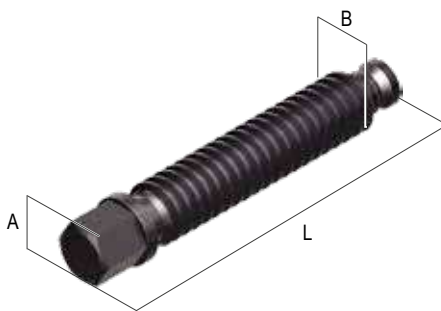
Tipo (grandezza) morsa / Vise type (size)		1	2	3	
Art. 357		Nm	10÷135	20÷200	34÷340
Chiave dinamometrica digitale a cricchetto con attacco 1/2"		Cod.	2.35.71000	2.35.72000	2.35.73000
Torque wrench digital ratchet type with hexagon with 1/2" driver square					

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

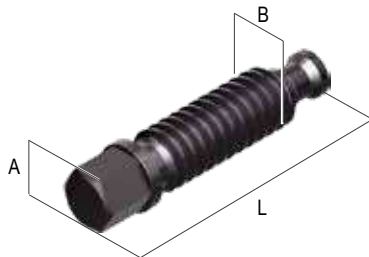
 Per le forze di serraggio vedi pag. 4.00
 For clamping force see page 4.00

RICAMBI / SPARE PARTS
Art. 360

 Vite di spinta. Normale
 Clamping bolt. Normal


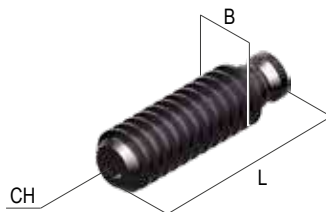
A	12	19	22	30
B	M12	TPN 18 x 4	TPN 24 x 5	TPN 30 x 5
L	100	130	150	190
Cod.	1.90.10144	1.90.20184	1.90.30245	1.90.50366

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



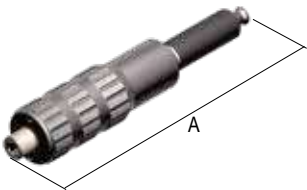




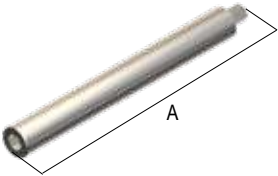

	0.06.20810	0.06.21012	0.06.21216	0.06.21620	0.06.21630	0.06.31360
Cod.	M8 x 20	M10 x 25	M12 x 30	M12 x 40	M20 x 50	M20 x 50
	CH. 3	CH. 5	CH. 6	CH. 6	CH. 10	CH. 10

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.	-	4.29.03000\M12				
Art. 292 Prolunga per Art. 290 Extension for Art. 290						
A	160 / 260					
Cod.	-	4.29.23000				

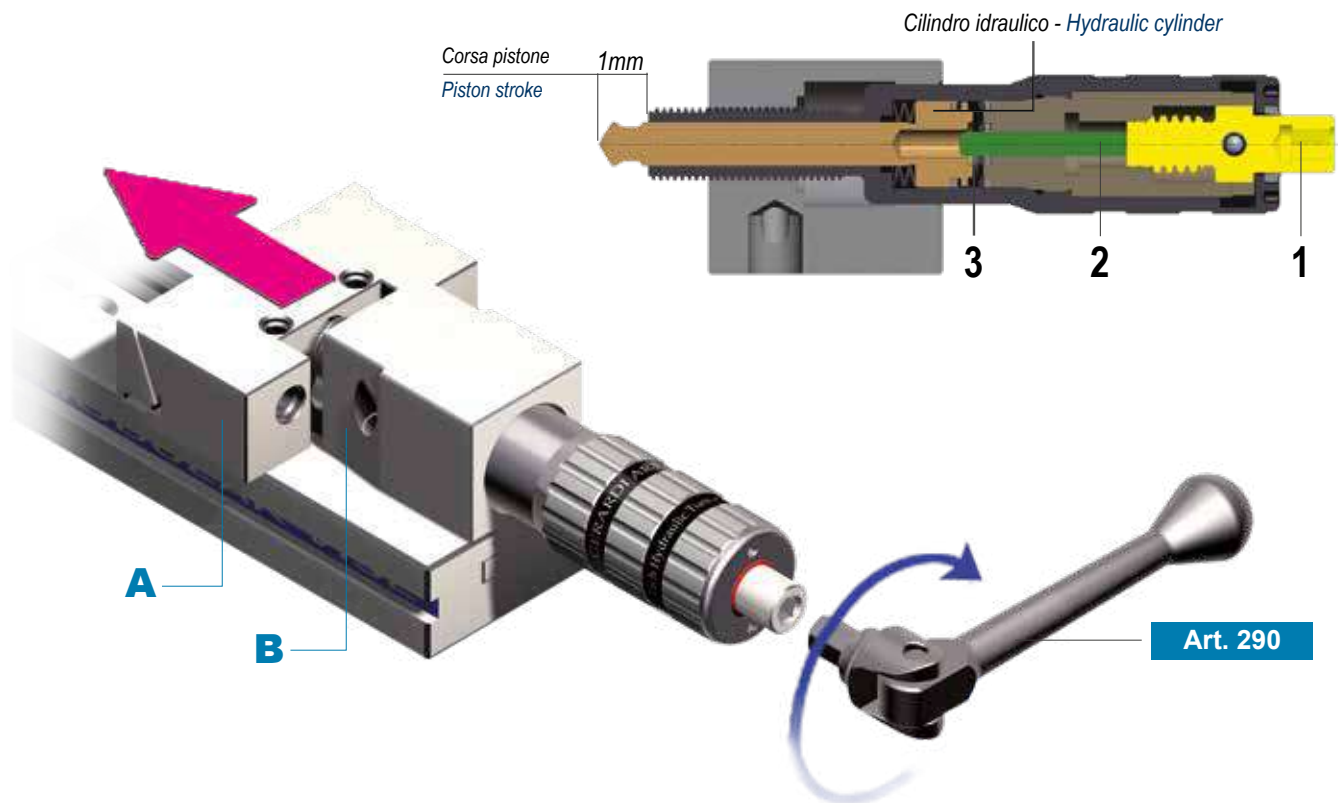
METODI ALTERNATIVI DI SERRAGGIO

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 prearico 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

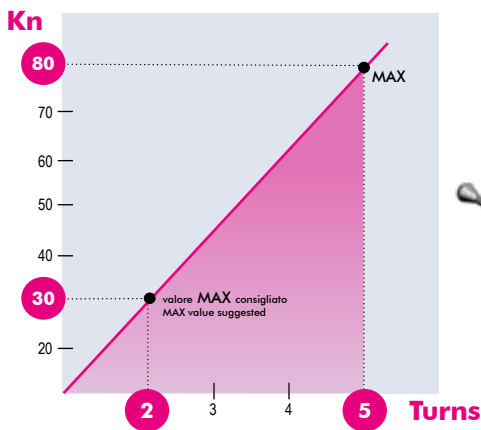
Diagrammi di serraggio meccanico con vite idraulica

Mechanical clamping diagrams with hydraulic hand screw

Morse tipo
Vises type

3-4

Autonomo - Self Contained

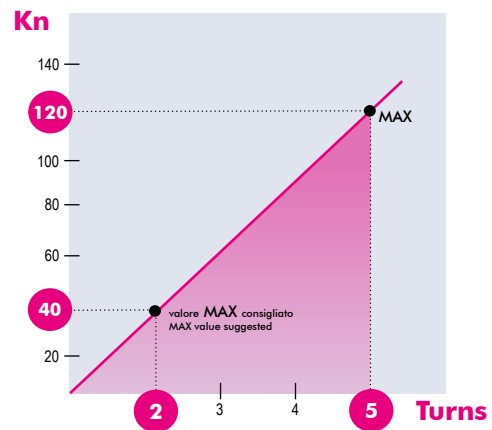


Art. 257

Morse tipo
Vises type

5-6

Autonomo - Self Contained



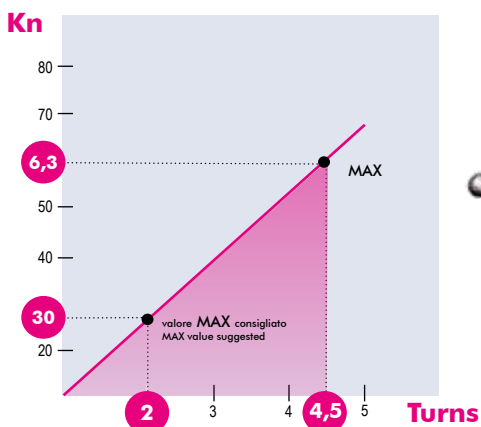
Gruppi di serraggio meccanici (Art.257 - Art.295) / Mechanical clamping devices (Art.257 - Art.295)

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

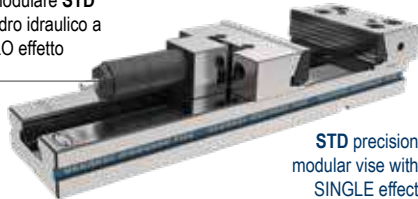
MORSE StandardMatic

Tipo (grandezza) morsa / Vise type (size)	kN	1		2		3		4	
		16 kN	25 kN	30 kN	30 kN	30 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
NEW 2024

 Morsa modulare STD
 con cilindro idraulico a
 SINGOLO effetto

Art.271


 STD precision
 modular vise with
 SINGLE effect
 hydraulic cylinder

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

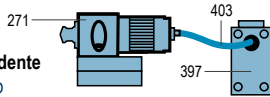
Art. 395

MAX 450bar

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


Cod. 4.39.54500

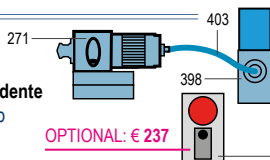
Art. 407

 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

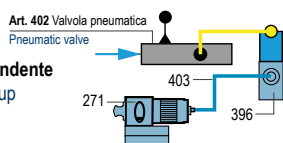
Cod. 4.40.7A100 4.40.7A200 4.40.7A300 4.40.7A400

CNC CONTROL

OPTIONAL: € 237

Art. 401 Pulsantiera / Puschbutton board

Art. 407B

 Gruppo di serraggio **indipendente**
 Independent clamping group


Cod. 4.40.7B100 4.40.7B200 4.40.7B300 4.40.7B400

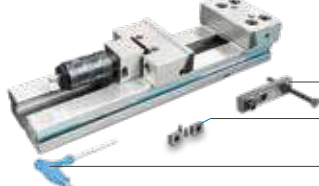
AIR CONTROL

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

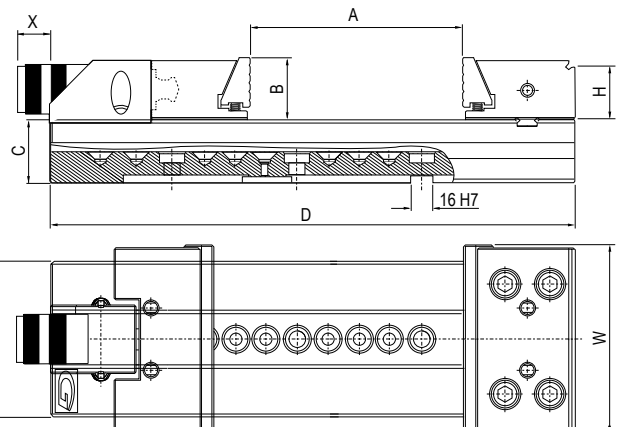
Art. 376

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

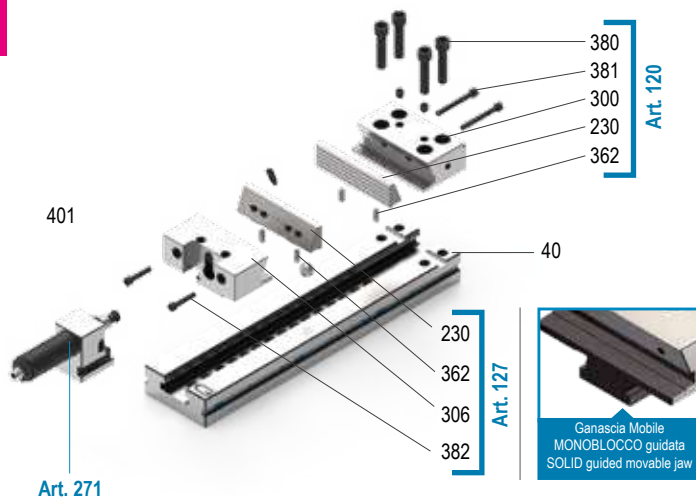
CNC CONTROL

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


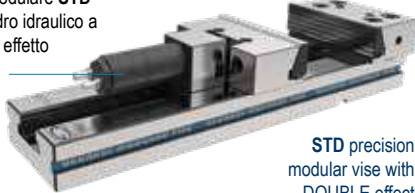
Art.	Pag.
40	1.24
230	4.9
271	4.54
300	4.29
306	4.29
362	4.28
380	4.28
381	4.28
382	4.28



MORSE StandardMatic

Tipo (grandezza) morsa / Vise type (size)	kN	1		2		3		4	
		16 kN	25 kN	30 kN	30 kN	30 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
NEW 2024

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

 STD precision
 modular vise with
 DOUBLE effect
 hydraulic cylinder

Art. 393D MAX 450bar

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


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)

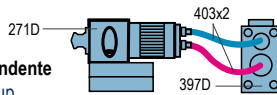
Cod. 4.39.4D450

Art. 395D MAX 450bar

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


Cod. 4.39.5D450

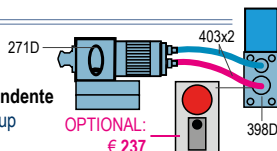
Art. 407C

 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

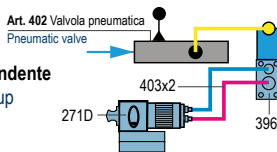
MANUAL CONTROL
Art. 407D

 Gruppo di serraggio **indipendente**
 Independent clamping group


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


Cod. 4.40.7E100 4.40.7E200 4.40.7E300 4.40.7E400

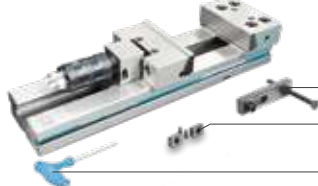
AIR CONTROL

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

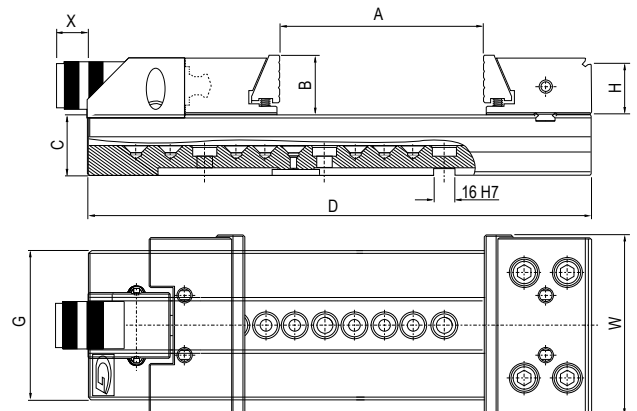
Art. 376

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)

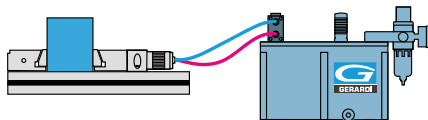
- Extra charge for each calibrated key nut (F7 tolerance)


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

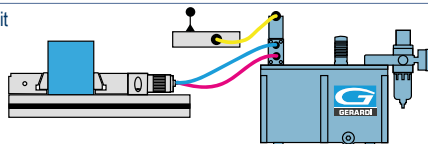
Art. 393

4.39.3D450

MANUAL CONTROL

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

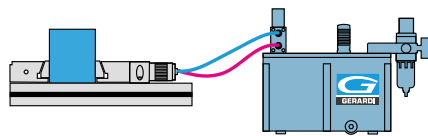
4.39.4D450

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

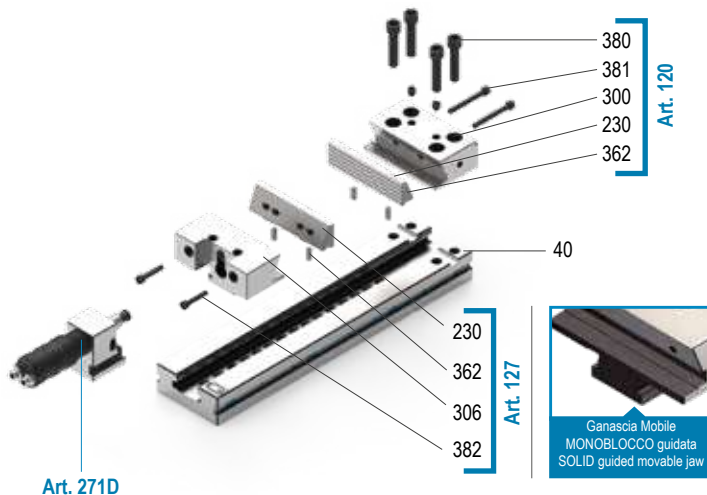
4.40.7D500

4.40.7D600

Art. 407D**CNC CONTROL**

4.40.7E500

4.40.7E600

Art. 407EPneumo-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

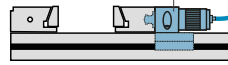
Art.	Pag.
40	1.24
230	4.9
271D	4.54
300	4.29
362	4.28
381	4.28
382	4.28

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
VICE 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

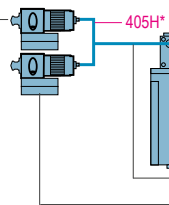
Cod. 4.39.01000 4.39.02000 4.39.03000 4.39.04000 4.39.05000 4.39.06000

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



405H*

 Ingresso aria
 Air inlet

 393
 403
 271
Art.390

Cod. 4.39.01002 4.39.02002 4.39.03002 4.39.04002 4.39.05002 4.39.06002

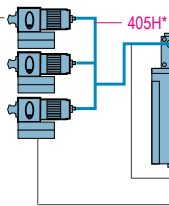
* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 390/3

 N° 3 serraggi contemporanei
 N° 3 simultaneously clamping

Art. 390 + n° 2 Art. 271

+2 Art. 271



405H*

 Ingresso aria
 Air inlet

 393
 403
 271
Art.390

Cod. 4.39.01003 4.39.02003 4.39.03003 4.39.04003 4.39.05003 4.39.06003

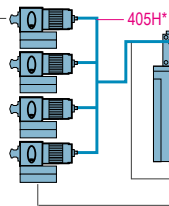
* Non incluso (Pag. 4.52) / Not included (Pag. 4.52)

Art. 390/4

 N° 4 serraggi contemporanei
 N° 4 simultaneously clamping

Art. 390 + n° 3 Art. 271

+3 Art. 271



405H*

 Ingresso aria
 Air inlet

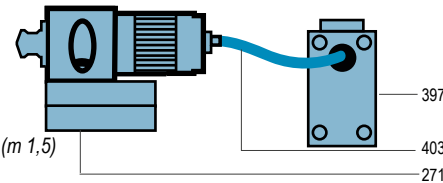
 393
 403
 271
Art.390

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)


397

403

271

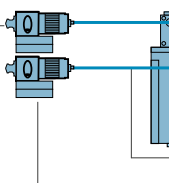
Cod. 4.40.71000 4.40.72000 4.40.73000 4.40.74000 4.40.75000 4.40.76000

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

 393
 403
 271
Art.390

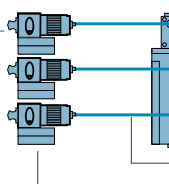
Cod. 4.39.0A102 4.39.0A202 4.39.0A302 4.39.0A402 4.39.0A502 4.39.0A602

Art. 390A / 3

 N° 3 serraggi indipendenti
 N° 3 independent clamping

Art. 390 + n° 2 Art. 407

+2 Art. 407


 Ingresso aria
 Air inlet

 393
 403
 271
Art.390

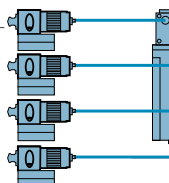
Cod. 4.39.0A103 4.39.0A203 4.39.0A303 4.39.0A403 4.39.0A503 4.39.0A603

Art. 390A / 4

 N° 4 serraggi indipendenti
 N° 4 independent clamping

Art. 390 + n° 3 Art. 407

+3 Art. 407


 Ingresso aria
 Air inlet

 393
 403
 271
Art.390

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

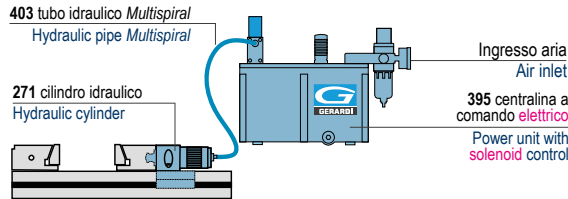
Tipo (grandezza) morsa / Vise type (size)

1	2	3	4	5	6
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Art. 391

N° 1 serraggio
N° 1 clamping

MORSA NON COMPRESA
WISE NOT INCLUDED



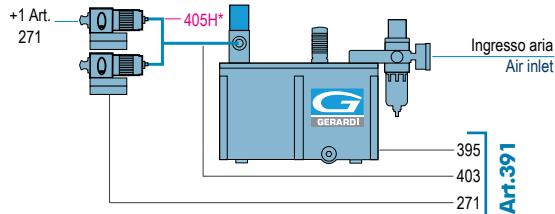
Cod.	4.39.11000	4.39.12000	4.39.13000	4.39.14000	4.39.15000	4.39.16000
------	------------	------------	------------	------------	------------	------------

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



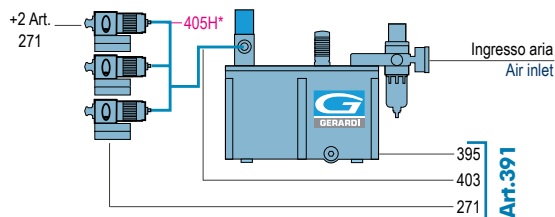
Cod.	4.39.11002	4.39.12002	4.39.13002	4.39.14002	4.39.15002	4.39.16002
------	------------	------------	------------	------------	------------	------------

* 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



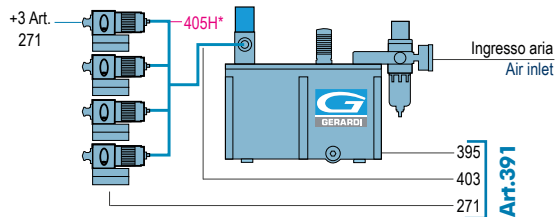
Cod.	4.39.11003	4.39.12003	4.39.13003	4.39.14003	4.39.15003	4.39.16003
------	------------	------------	------------	------------	------------	------------

* 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



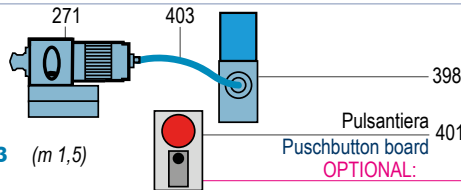
Cod.	4.39.11004	4.39.12004	4.39.13004	4.39.14004	4.39.15004	4.39.16004
------	------------	------------	------------	------------	------------	------------

* 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)



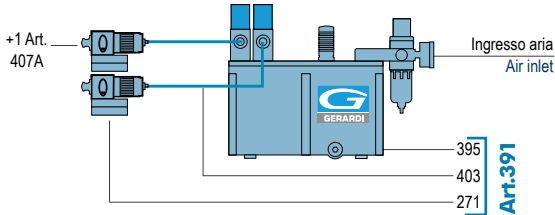
Cod.	4.40.7A100	4.40.7A200	4.40.7A300	4.40.7A400	4.40.7A500	4.40.7A600
------	------------	------------	------------	------------	------------	------------

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

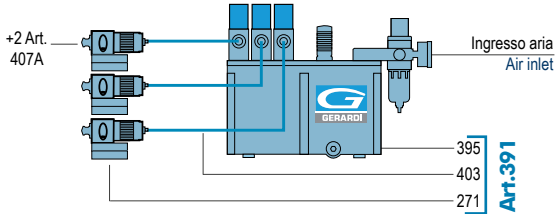


Cod.	4.39.1A102	4.39.1A202	4.39.1A302	4.39.1A402	4.39.1A502	4.39.1A602
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Art. 391A / 3

N° 3 serraggi indipendenti
N° 3 independent clamping

Art. 391 + n° 2 Art. 407A

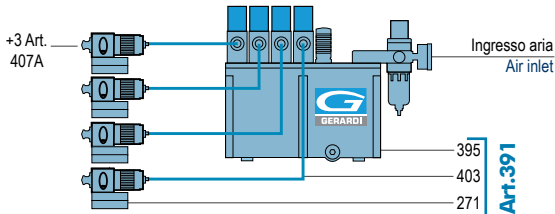


Cod.	4.39.1A103	4.39.1A203	4.39.1A303	4.39.1A403	4.39.1A503	4.39.1A603
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Art. 391A / 4

N° 4 serraggi indipendenti
N° 4 independent clamping

Art. 391 + n° 3 Art. 407A



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

COMANDO PNEUMATICO - PNEUMATIC CONTROL

SINGOLO EFFETTO

SINGLE EFFECT

Tipo (grandezza) morsa / Vise type (size)

1

2

3

4

5

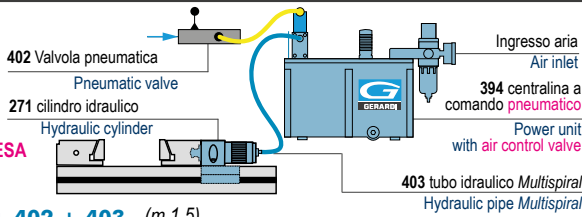
6

Art. 392

N° 1 serraggio
N° 1 clamping

MORSA NON COMPRESA
VICE NOT INCLUDED

Art. 392 + 271 + 402 + 403 (m 1,5)



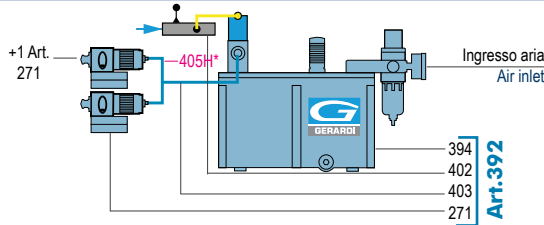
Cod. 4.39.21000 4.39.22000 4.39.23000 4.39.24000 4.39.25000 4.39.26000

* 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



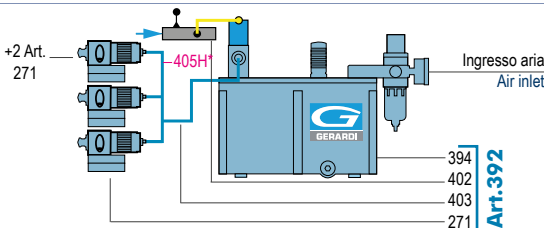
Cod. 4.39.21002 4.39.22002 4.39.23002 4.39.24002 4.39.25002 4.39.26002

* 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



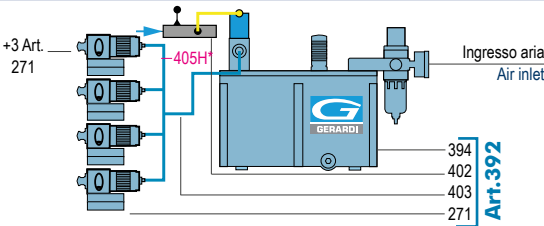
Cod. 4.39.21003 4.39.22003 4.39.23003 4.39.24003 4.39.25003 4.39.26003

* 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



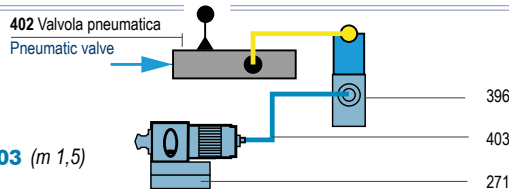
Cod. 4.39.21004 4.39.22004 4.39.23004 4.39.24004 4.39.25004 4.39.26004

* 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)



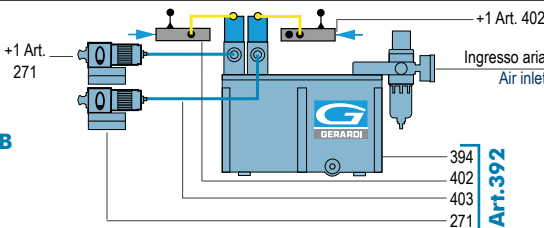
Cod. 4.40.7B100 4.40.7B200 4.40.7B300 4.40.7B400 4.40.7B500 4.40.7B600

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

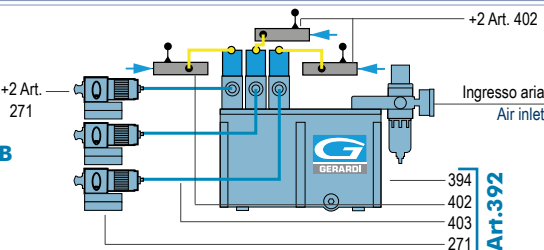


Cod. 4.39.2A102 4.39.2A202 4.39.2A302 4.39.2A402 4.39.2A502 4.39.2A602

Art. 392A / 3

N° 3 serraggi indipendenti
N° 3 independent clamping

Art. 392 + n° 2 Art. 407B

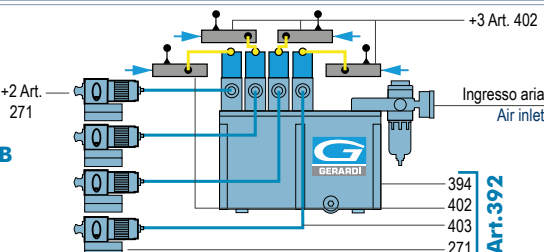


Cod. 4.39.2A103 4.39.2A203 4.39.2A303 4.39.2A403 4.39.2A503 4.39.2A603

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** contro



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



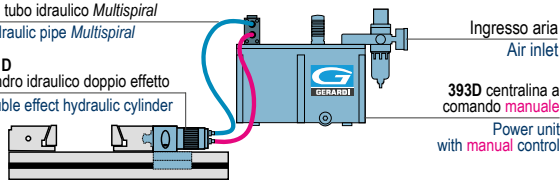
Cod. 4.39.8B000

COMANDO MANUALE - MANUAL CONTROL
DOPPIO EFFETTO
DOUBLE EFFECT
Tipo (grandezza) morsa / Vise type (size)
1
2
3
4
5
6
Art. 390B

 403 tubo idraulico *Multispiral*
 Hydraulic pipe *Multispiral*

 271D cilindro idraulico doppio effetto
 double effect hydraulic cylinder

 N° 1 serraggio
 N° 1 clamping

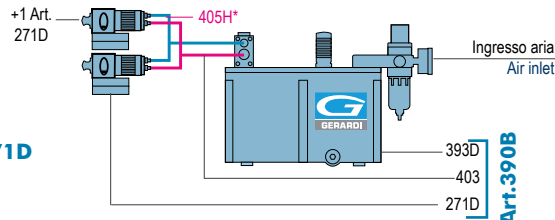
MORSA NON COMPRESA
WISE NOT INCLUDED


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.393D + Art.271D + Art.403 (m 1,5)
Art. 390B/2

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


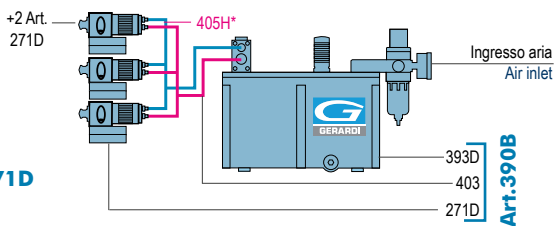
Ingresso aria / Air inlet

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

Art. 390B + n° 1 Art.271D

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

Art. 390B/3

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


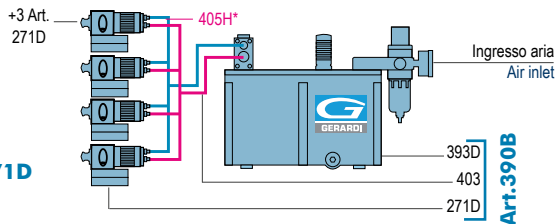
Ingresso aria / Air inlet

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

Art. 390B + n° 2 Art.271D

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

Art. 390B/4

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


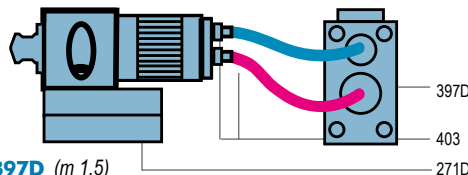
Ingresso aria / Air inlet

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

Art. 390B + n° 3 Art.271D

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

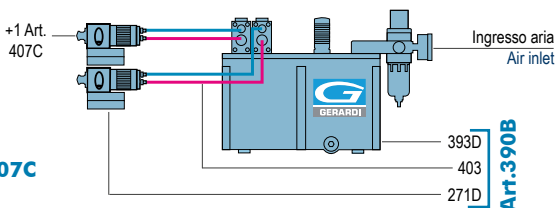
Art. 407C

 Gruppo di serraggio **indipendente**
 Independent clamping group


Ingresso aria / Air inlet

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

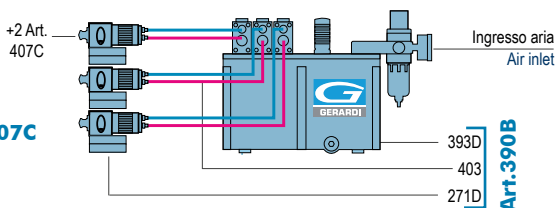
Art.271D + Art. 403 + Art. 397D (m 1,5)
Possibilità di automatizzare tutte le morse STD / StandardFLEX / XL / Elementi modulari. (Esclusi Art.1E, Art.1F)
Art. 390C / 2

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


Ingresso aria / Air inlet

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

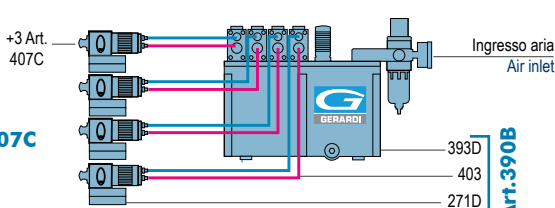
Art. 390B + n° 1 Art. 407C
Art. 390C / 3

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


Ingresso aria / Air inlet

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

Art. 390B + n° 2 Art. 407C
Art. 390C / 4

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


Ingresso aria / Air inlet

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

Art. 390B + n° 3 Art. 407C

COMANDO ELETTRICO - SOLENOID CONTROL

DOPPIO EFFETTO da cnc **DOUBLE EFFECT by cnc**

Tipo (grandezza) morsa / Vise type (size)

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

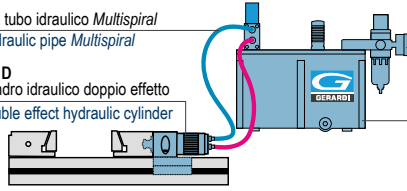
Art. 391B

N° 1 serraggio
N° 1 clamping

MORSA NON COMPRESA
VICE 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

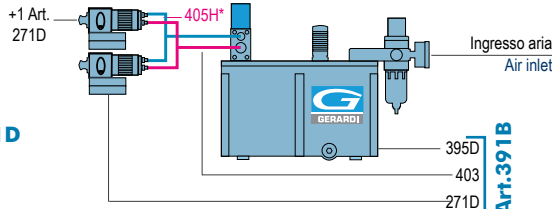
Cod. 4.39.1B100 4.39.1B200 4.39.1B300 4.39.1B400 4.39.1B500 4.39.1B600

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



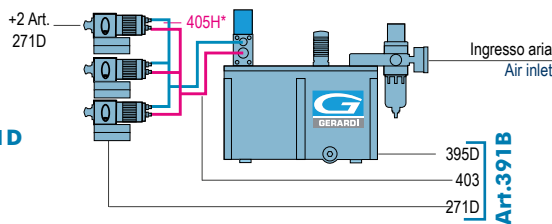
Cod. 4.39.1B102 4.39.1B202 4.39.1B302 4.39.1B402 4.39.1B502 4.39.1B602

* 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



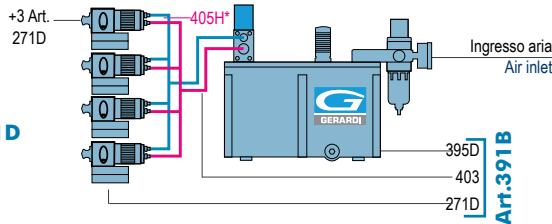
Cod. 4.39.1B103 4.39.1B203 4.39.1B303 4.39.1B403 4.39.1B503 4.39.1B603

* 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



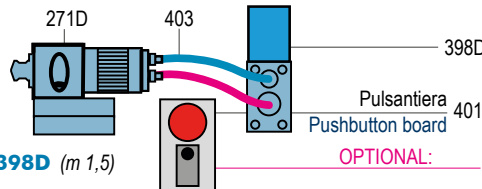
Cod. 4.39.1B104 4.39.1B204 4.39.1B304 4.39.1B404 4.39.1B504 4.39.1B604

* 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

Pulsantiera
Pushbutton board

401

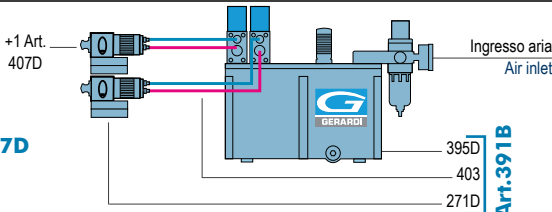
OPTIONAL:

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

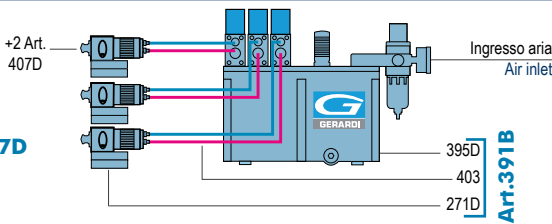


Cod. 4.39.1C102 4.39.1C202 4.39.1C302 4.39.1C402 4.39.1C502 4.39.1C602

Art. 391C / 3

N° 3 serraggi indipendenti
N° 3 independent clamping

Art. 391B + n° 2 Art. 407D

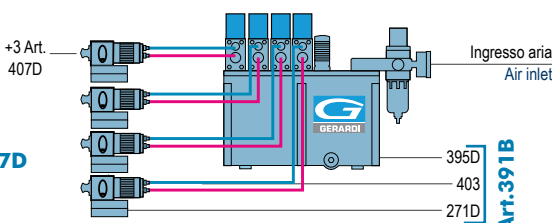


Cod. 4.39.1C103 4.39.1C203 4.39.1C303 4.39.1C403 4.39.1C503 4.39.1C603

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

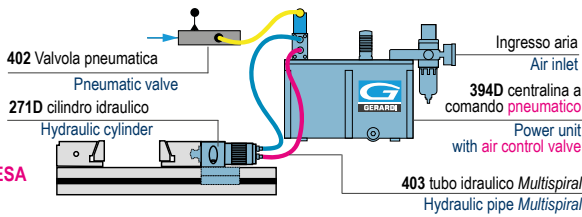
6

Art. 392B

N° 1 serraggio
N° 1 clamping

MORSA NON COMPRESA
WISE NOT INCLUDED

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



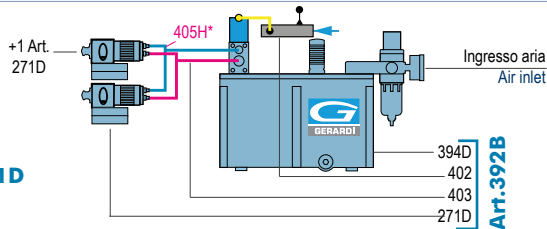
Cod. 4.39.2B100 4.39.2B200 4.39.2B300 4.39.2B400 4.39.2B500 4.39.2B600

* 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



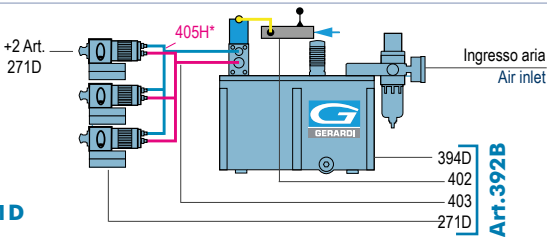
Cod. 4.39.2B102 4.39.2B202 4.39.2B302 4.39.2B402 4.39.2B502 4.39.2B602

* 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



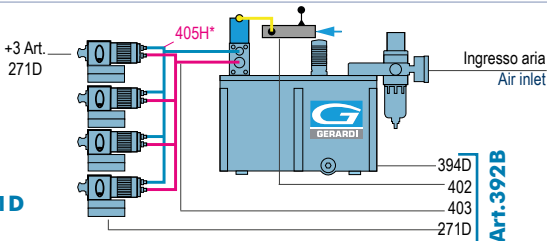
Cod. 4.39.2B103 4.39.2B203 4.39.2B303 4.39.2B403 4.39.2B503 4.39.2B603

* 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



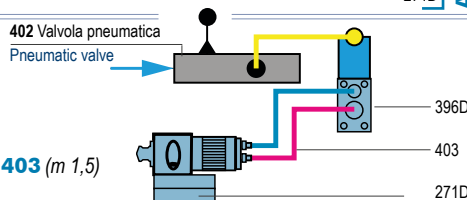
Cod. 4.39.2B104 4.39.2B204 4.39.2B304 4.39.2B404 4.39.2B504 4.39.2B604

* 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)



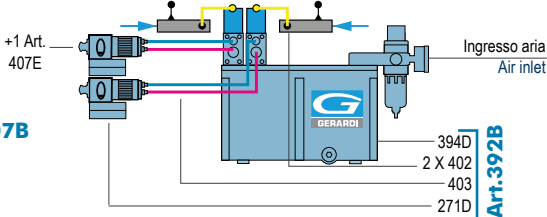
Cod. 4.40.7E100 4.40.7E200 4.40.7E300 4.40.7E400 4.40.7E500 4.40.7E600

Possibilità di automatizzare tutte le morsa 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

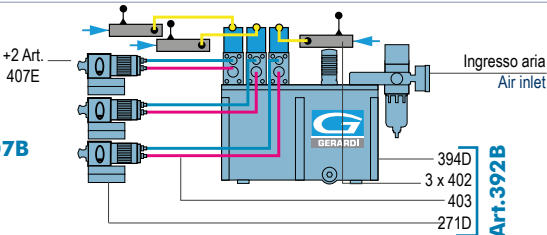


Cod. 4.39.2C102 4.39.2C202 4.39.2C302 4.39.2C402 4.39.2C502 4.39.2C602

Art. 392C / 3

N° 3 serraggi indipendenti
N° 3 independent clamping

Art. 392B + n° 2 Art. 407B

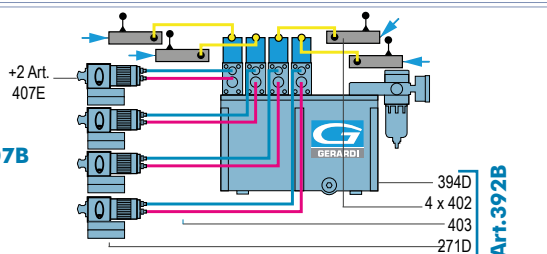


Cod. 4.39.2C103 4.39.2C203 4.39.2C303 4.39.2C403 4.39.2C503 4.39.2C603

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

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



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

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



Art. 398D

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

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



Cod. 4.39.8D000

Art. 398C

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



Cod. 4.39.8C000

ACCESSORI e RICAMBI

ACCESSORIES and SPARE PARTS

Art. 399

 Gruppo filtro riduttore più lubrificatore
 Compressed air preparation unit


Cod. 4.39.90000

Art. 400

 Pedale bistabile
 Two positions foot pedal


Cod. 4.40.00000

Art. 401

 Pulsantiera per 1 azionamento
 Puschbutton board for one control operation


Cod. 4.40.10000

Art. 402

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


Cod. 4.40.20000-14

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

 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

ACCESSORI e RICAMBI

ACCESSORIES and SPARE PARTS

Art. 270A

Attacco idraulico rapido femmina
Quick hydraulic female connection



Cod. 4.27.0A000

Art. 270B

Innesto idraulico rapido maschio
Quick hydraulic male connection



Cod. 4.27.0B000

Art. ID03

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



Cod. 9.ID.03000

Art. ID04

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



Cod. 9.ID.04000

Art. ID05

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



Cod. 9.ID.05000

Art. 505

Pressostato 400bar
Pressure switch 400bar



Cod. 0.50.50000

Art. 272A

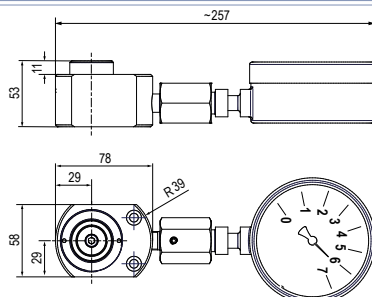
Indicatore di forza kN
Force indicator kN



Cod. 4.27.2A600

Art. 272

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



Bar	Max 700
kN	Max 111,3
Cod.	4.27.26000

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
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Art. 285

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

 Pressione **MAX**
 MAX pressure **450 bar - 6525 psi**

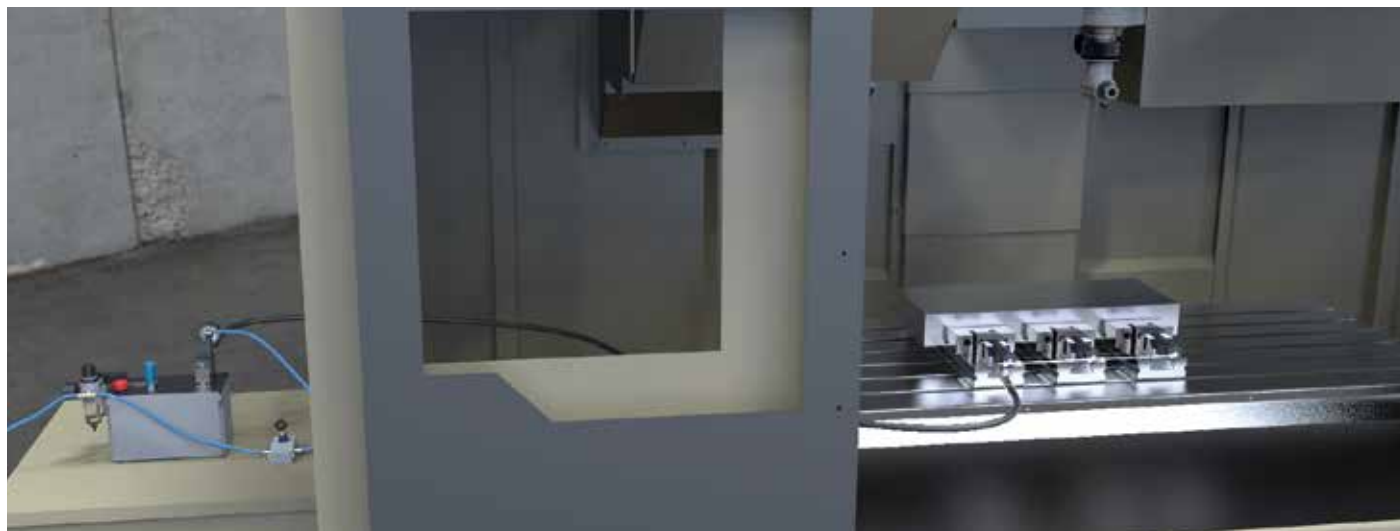
Ø Pistone Ø Piston	20	30	36	
Area effettiva (cm2) effective area (cm2)	3,14	7,07	10,17	
Cod.	2.28.51000	2.28.52000	2.28.53000	2.28.55000
Corsa Stroke	32	26	40	

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**

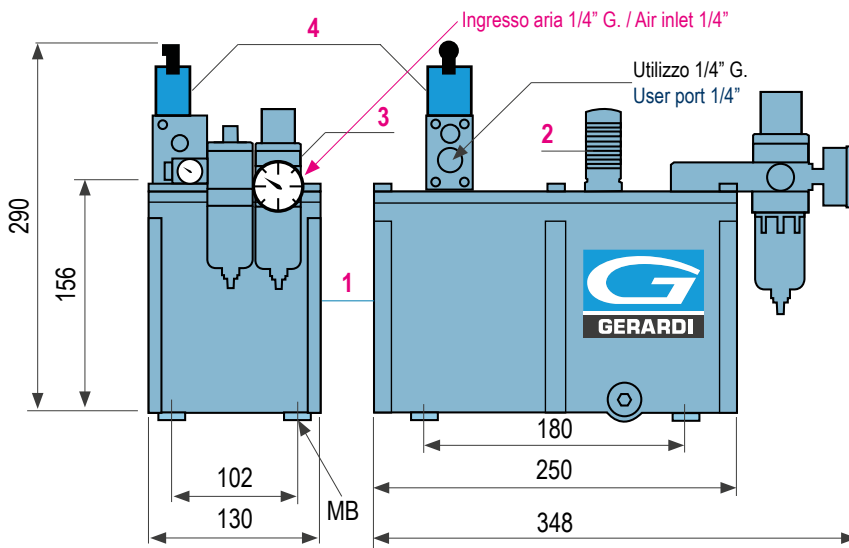
Ø Pistone Ø Piston	20	30	32	
Area effettiva (cm2) effective area (cm2)	3,14	7,07	8,04	
Cod.	1.56.91000	1.56.92000	1.56.93000	1.56.95000
Corsa Stroke	20	33	40	

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

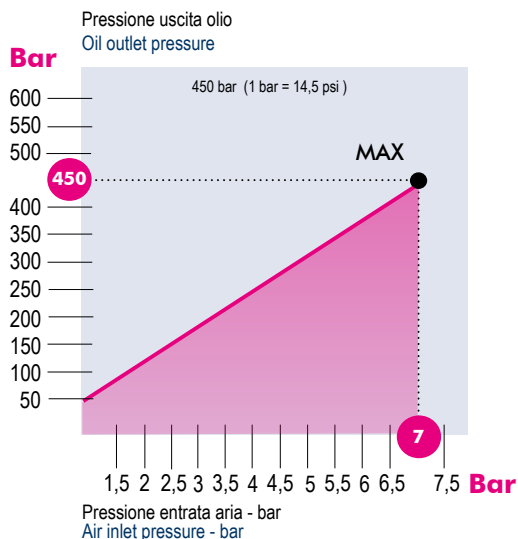
Pressione massima aria: Max permissible air pressure:	7 bar
Pressione aria consigliata: Recommended air pressure:	5,5 bar
Tipo di olio raccomandato: idraulico Recommended grade of oil: hydraulic	68 CSt
Portata Deliveries	0,9 l / min
Capacità serbatoio Tank capacity	3 l
Delta massimo su pilotaggi elettrici: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

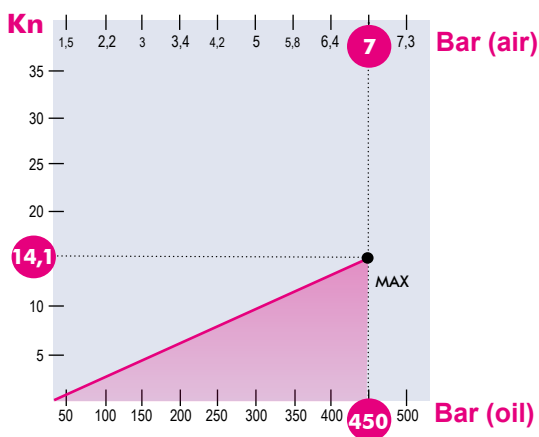
Diagrammi di serraggio pneumoidraulici ed elettroidraulici

Diagram pneumo-hydraulic and electro-hydraulic clamping

Morse tipo
Vises type

1

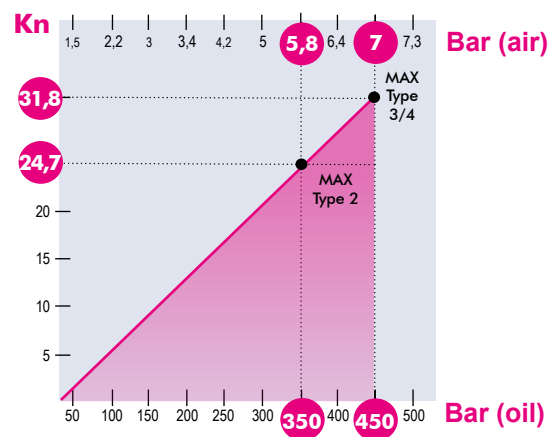
Cilindro idraulico Art. 285 - 569 Ø interno 20 mm - Superficie efficace 3,14 cm²
 Hydraulic cylinder Art. 285 - 569 Cylinder I.D. 20 mm - Effective area 3,14 cm²



Morse tipo
Vises type

2-3-4

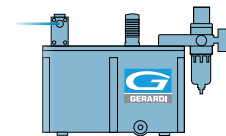
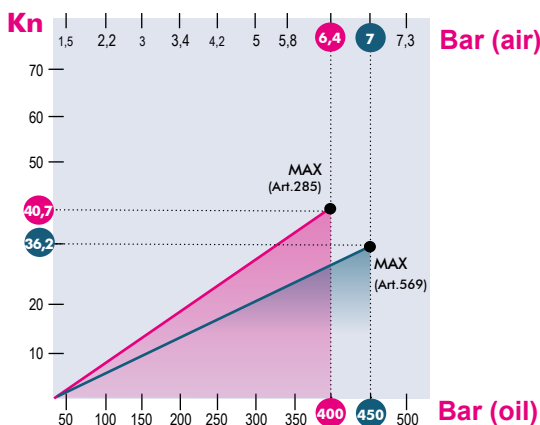
Cilindro idraulico Art. 285 - 569 Ø interno 30 mm - Superficie efficace 7,07 cm²
 Hydraulic cylinder Art. 285 - 569 Cylinder I.D. 30 mm - Effective area 7,07 cm²



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.