

MULTITASKING & COMPACT GRIP MORSE Autocentranti - Self-centering VISES



MADE IN ITALY



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VALIGETTA DI CAMPIONATURA ZERO POINT & MULTITASKING SAMPLE KIT CASE STD ZERO POINT & MULTITASKING

NEW!



Valigetta di campionatura morsa Art.640 - Art.665 - Art.81P
Sample kit case Art.640- Art.665 - Art.81P

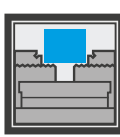
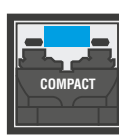
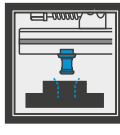
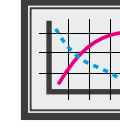
Cod. 0.98.20000

All'Interno - Inside:

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SIMBOLOGIA DATI TECNICI TECHNICAL DATA ICONS

SERIE SERIES					
			Morse Multitasking Multitasking vises	Morse Compact Grip Compact Grip vises	Sistema a coda di rondine Dove Tail fixtures
INSERTI GRIP INSERT GRIP					
			Liscio + Ruvido Smooth + Rough	Coda di Rondine Dove Tail	GRIP GRIP
POSSIBILITÀ DI POSSIBILITY OF					
				Lavorazioni a 5 assi 5 axis machining	Predisposizione Zero Point Zero Point Ready
PAGINE PAGES					
	Rialzi Risers	Sistema Idraulico Hydraulic system	Accessori & Ricambi Accessories & Spare Parts	Istruzioni corretto utilizzo Instruction for a proper use	Diagrammi forze di serraggio Clamping force diagrams

MORSE serie MULTITASKING MULTITASKING series VISES

Morse per applicazioni avanzate su centri di lavoro a 5 assi, Autocentranti e / o eccentriche
Vises for advanced applications on 5 axis machining centres, Self-centering and / or eccentric

Di speciale interesse per gli utilizzatori di centri di lavoro a 5 assi, le morse MULTITASKING presentano le stesse caratteristiche costruttive illustrate per le morse della serie FMS e MULTIFLEX (accuratamente rettificate in acciaio ad alta resistenza cementato trattato termicamente).

Nata espressamente per i centri a 5 assi, la gamma MULTITASKING permette di intervenire sulle 5 facce del particolare in lavorazione con riferimenti precisi in spazi contenuti garantendo usure inesistenti e grande rigidità. Possibilità di ausilio di sistemi meccanici o idraulici o pneumatici. Ganasce da 74 a 140 mm.

Ancoraggio diretto o tramite staffe / Posizionamento tramite fori calibrati o chiavette / Eccentriche: possibilità di disassamento centraggio per multipli di 1 mm (Auto-centraggio fuori asse) / Autocentranti con serraggi concentrici dall'esterno all'interno e viceversa / Minimi ingombri e massima rigidità / Costruzione solida e compatta a massima apertura rispetto agli ingombri / Disponibili serie di ganasce intercambiabili / Ganasce integrali per massima rigidità

Of special interest to 5 axis centres users **MULTITASKING** vises present the same building characteristics of FMS and MULTIFLEX vises, (Heat treatment and ground steel construction throughout).

Designed for 5 axis machines, **MULTITASKING** series of vises allow machining operations on the 5 workpieces sides with perfect alignment in a space saving design, extremely high wear resistance, with reduced deflection. Possibility of mechanic or hydraulic or pneumatic devices application. Jaws widths from 75 to 140 mm.

Direct vise set-up or through vise clamps / Positioning through ground holes or keyways / Self-centering with possibility to clamping from outside to inside and viceversa / Eccentric jaw adjustment in steps of 1 mm (Multiaxis self-centering) / Minimum deflection and overall dimensions / Solid and rigid construction and maximum clamping ratio to the total length / Series of interchangeable jaws available / Solid jaws (integral with the slides) for highest rigidity

Art.640 MULTITASKING vise

Azionamento manuale - Serraggio meccanico
Manual Control - Mechanical Clamping



MILLERIGHE (passo 2mm)
Sistema di riposizionamento ganasce
MULTIROWS (pitch 2mm)
Jaws repositioning system

CARATTERISTICHE E VANTAGGI

- USURA INESISTENTE
- RAPIDITÀ DEI SERRAGGI
- MODULARITÀ & VERSATILITÀ
- PRECISIONI $\pm 0,02\text{mm}$
- RIGIDITÀ & SICUREZZA
- DESIGN COMPATTO E MANEGGEVOLEZZA
- AUTOCENTRANTI
- PREDISPOSIZIONE PER ZERO POINT
- UTILIZZO DISTANZIALI

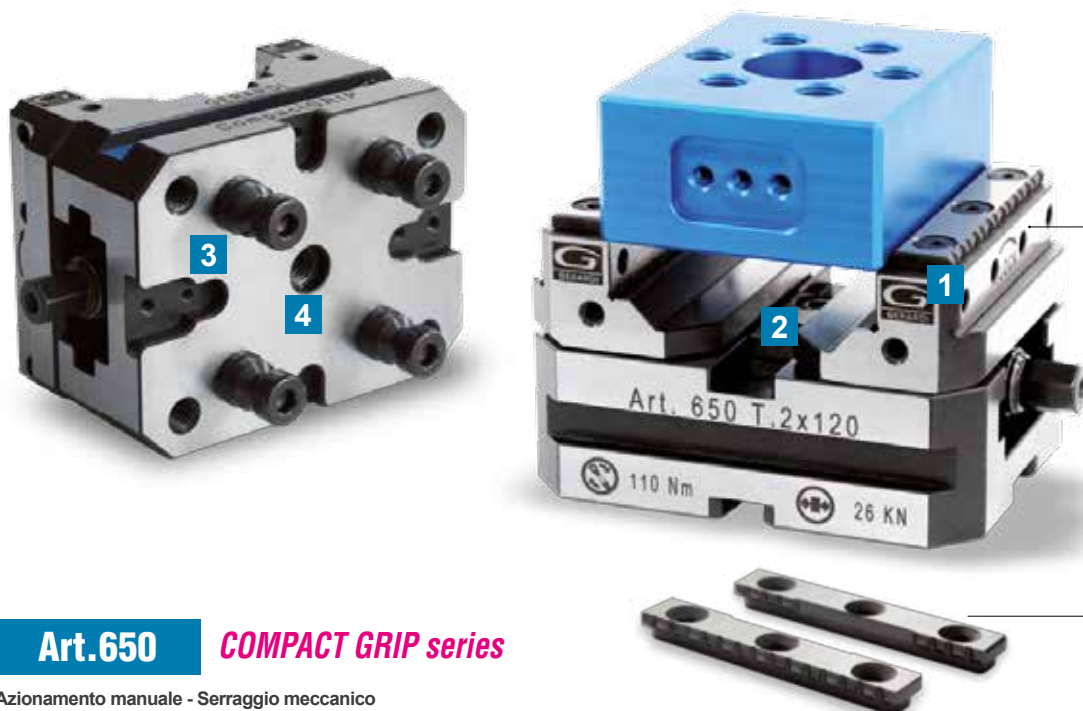
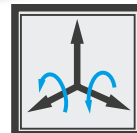
TECHNICAL FEATURES and ADVANTAGES

- NO WEAR
- QUICK CLAMPING
- MODULARITY & VERSATILITY
- HIGHEST ACCURACY $\pm 0,02\text{mm}$
- RIGIDITY & SAFETY
- SPACE SAVING DESIGN & HANDY
- SELF-CENTERING
- ZERO POINT READY
- COMPATIBLE RISERS

MORSE serie COMPACT GRIP COMPACT GRIP series VISES

Morse autocentranti con ganasce integrali reversibili, ideali per centri a 5 assi
Self-centering vise with reversible solid jaws, ideal for five axis machine centres

NEW!



Fori passanti per montaggio
piastre ganasce personalizzate.
Through holes for mounting
tailor made jaw plates



Fori filettati per il fissaggio di
distanziali personalizzati
Thread holes for mounting
tailor made risers



Inserti riportati utilizzabili
da entrambi i lati.
Inserts to be used on both sides

Art.650

COMPACT GRIP series

Azionamento manuale - Serraggio meccanico
Manual Control - Mechanical Clamping

1 VERSATILITÀ

Grande versatilità ottenuta attraverso la possibilità di sostituire gli Inserti GRIP con diversi tipi di dentatura in modo facile e veloce (da utilizzare a seconda del materiale da lavorare). Versatilità grazie alle ganasce reversibili e alle 4 opzioni di posizionamento della base (90°) ed ai fori frontali passanti.

1 VERSATILITY

Another advantage will be the greatest versatility thanks to easiest and quickest GRIP top jaw inserts exchange with different types of teeth design to be used according the material to be clamped. Versatility also thanks to the reversible jaws and to the 4 base positions option (90°) and to the front through holes.

2 GRANDE FORZA di SERRAGGIO

Forza di serraggio maggiore rispetto alle morse oggi sul mercato, ma anche rispetto alle nostre morse Art.640 e con un design più compatto e leggero. Questo è possibile grazie alle viti di serraggio, alla loro posizione più prossima al particolare da lavorare e al design integrale di slitte e ganasce. Veloce sistema di regolazione autocentrante dall'alto tramite tasselli di azzeramento forniti in dotazione

2 HIGHEST CLAMPING POWER

Much higher clamping power than the existing vises, but also compared to our Art.640 and with a more compact and lighter design. This is because of the clamping screw design, its position much closer to the workpiece, and the integral design of slides and jaws. Easy self-centering adjustment from the top by key-nuts supplied as standard equipment.

3 COMPATIBILITÀ

Le basi delle morse Compact Grip offrono la massima compatibilità con i sistemi di cambio pallet già esistenti sul mercato

3 COMPATIBILITY

Compact grip vise bases are compatible with the most popular pallet change systems.

4 PREDISPOSIZIONE ZERO POINT

Compatibilità con i sistemi di cambio pallet già esistenti sul mercato, ma anche con il nostro sistema Zero Point Tipo 1 e Tipo 2 ed il sistema di cambio rapido meccanico

4 ZERO POINT READY

Compatibility with the most popular pallet change systems, but also with our Zero Point Type 1 and Type 2 and with the mechanical quick change system.

RIALZI

Compatibili con le morse Multitasking e Compact Grip permettono di lavorare parti del particolare difficili da raggiungere.

RISERS

Compatible with Multitasking and Compact Grip vises they allow to machine those areas usually hard to reach.

Tipo (grandezza) morsa / Vise (type) size

Art. 640

Tipo / Type **1 e 2**

Morsa autocentrante o eccentrica.
Azionamento manuale
Serraggio meccanico



Self-centering or eccentric vise.
Manual operation Mechanical clamping

kN	1 16 kN	2 20 kN
A	65	95
A1	20	40
W	74	99
B	15	20
C	50	70
D	Ø120	Ø160
E	35	35
F	92	120
G	20	25
H	156	208
L	M12	M16
M	9	11
kg	4,9	11
Cod.	6.64.01000	6.64.02000

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

Art. 641H

Tipo / Type **1 e 2**

Rialzo Semplice
Simple Riser

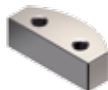


Cod. 7.64.1H100 7.64.1H200

Vedi gamma completa - See the complete range Page 7.14 / 7.15

Art. 645B

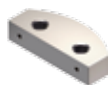
Ganascia dolce
Soft jaw



Cod. 6.64.5B100 6.64.5B200

Art. 645C

Ganascia liscia
Smooth jaw



Cod. 6.64.5C100 6.64.5C200

Art. 645D

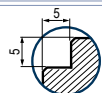
Ganascia zigrinata
Serrated jaw



Cod. 6.64.5D100 6.64.5D200

Art. 645E

Ganascia a gradino
Step jaw



Cod. 6.64.5E100 6.64.5E200

In Dotazione - Standard Equipment

Art. 645F

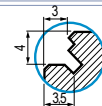
Ganascia prismatica
Prismatic jaw



Cod. 6.64.5F100 6.64.5F200

Art. 645T

Ganascia **GRIP**
GRIP jaw



Cod. 6.64.5T100 6.64.5T200

Dotazione standard:

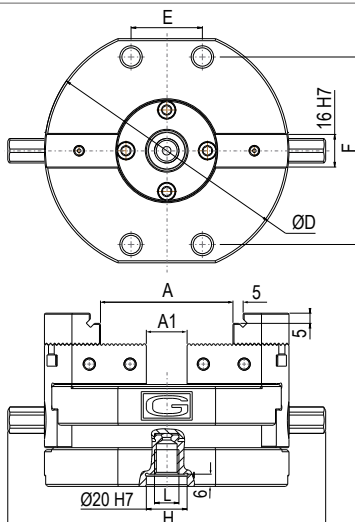
- 1 chiave esagonale Art. 375 ■ 1 arresto laterale Art. 370
- 1 coppia di tasselli di posizionamento Art. 297
- 1 perno calibrato per centraggio Art. 640P

(Indicare dimensione in fase d'ordine)



Standard equipment:

- 1 exagonal wrench Art. 375 ■ 1 workstop Art. 370
- 1 pair of positioning key-nuts Art. 297
- 1 calibrated centering pin Art. 640P (Dimension to be advised at order)

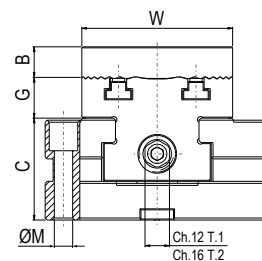


Art. 640

Tipo / Type **1 e 2**

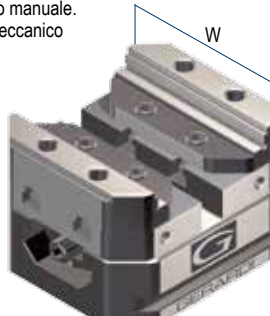
Esempio di ordine: Art. 640 tipo 1
(Art.297 18mm + Art.640P 40mm)

Example of order: Art. 640 type 1
(Art.297 18mm + Art.640P 40mm)



Tipo (grandezza) morsa / Vise (type) size

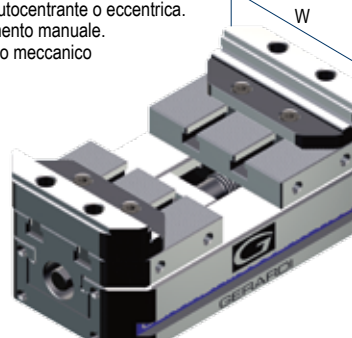
	kN	3 30 kN
Art. 640		
Tipo / Type 3 x 166		
Morsa autocentrante o eccentrica. Azionamento manuale. Serraggio meccanico		
A		108
A1		20
W		138
B		30
C		58
D		166
E		-
kg		13
Cod.		7.64.03166



Self-centering or eccentric vise.
Manual operation Mechanical clamping

Tipo (grandezza) morsa / Vise (type) size

	kN	3 30 kN
Art. 640		
Tipo / Type 3 x 266		
Morsa autocentrante o eccentrica. Azionamento manuale. Serraggio meccanico		
A		208
A1		60
W		138
B		30
C		58
D		266
E		200
kg		20
Cod.		7.64.03266



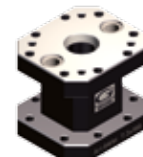
Self-centering or eccentric vise.
Manual operation Mechanical clamping

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art. 641H

Tipo / Type **3 x 166**

Rialzo Semplice
Simple Riser

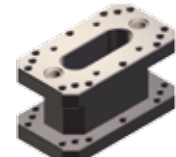


Cod. 7.64.1H3166

Art. 641H

Tipo / Type **3 x 266**

Rialzo Semplice
Simple Riser



Cod. 7.64.1H3266

Vedi gamma completa - See the complete range Page 7.14 / 7.15

Art. 645B

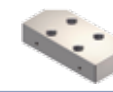
Ganascia dolce
Soft jaw



Cod. 7.64.5B300

Art. 645C

Ganascia liscia
Smooth jaw



Cod. 7.64.5C300

Art. 645D

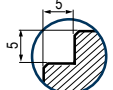
Ganascia zigrinata
Serrated jaw



Cod. 7.64.5D300

Art. 645E

Ganascia a gradino
Step jaw



In Dotazione - Standard Equipment

Cod. 7.64.5E300

Art. 645F

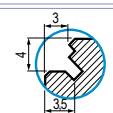
Ganascia prismatica
Prismatic jaw



Cod. 7.64.5F300

Art. 645T

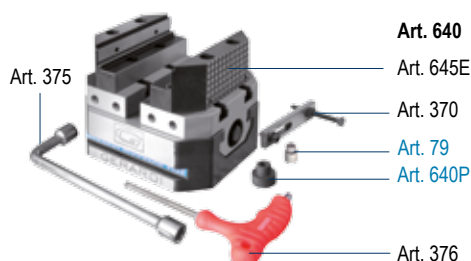
Ganascia GRIP
GRIP jaw



Cod. 7.64.5T300

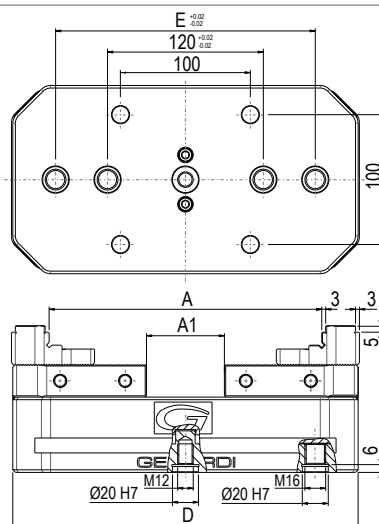
Dotazione standard:

- 1 chiave a pipa Art. 375
- 1 chiave a "T" Art. 376
- 1 arresto laterale Art. 370
- 1 perno calibrato per centraggio e orientamento Art. 79
- 1 perno calibrato per centraggio Art. 640P (Indicare dimensione in fase d'ordine)



Standard equipment:

- 1 box wrench Art. 375
- 1 "T" wrench Art. 376
- 1 workstop Art. 370
- 1 calibrated centering and orientation pin Art. 79
- 1 calibrated centering pin Art. 640P (Dimension to be advised at order)

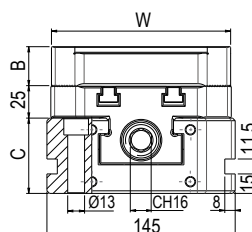


Art. 640 Tipo / Type **3**

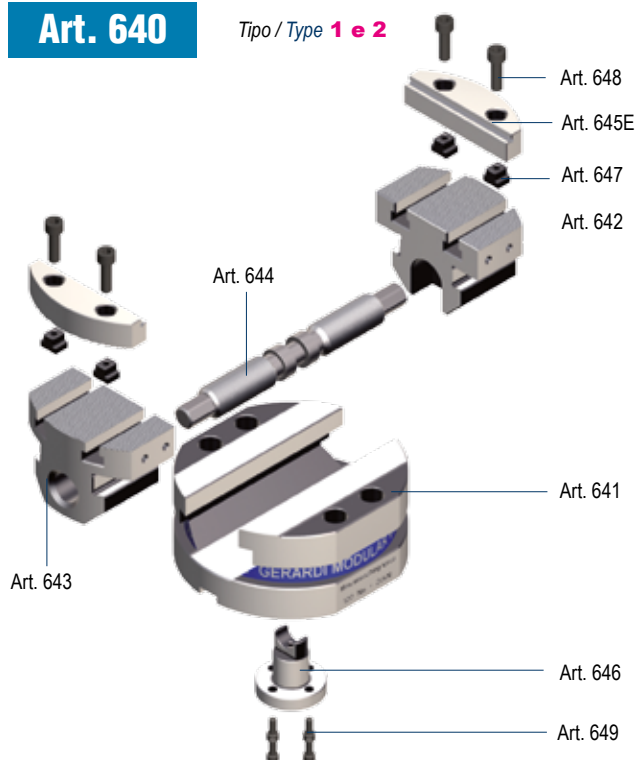
Esempio di ordine: Art. 640 tipo 3 x 166 (Art. 79 16mm + Art. 640P 40mm)

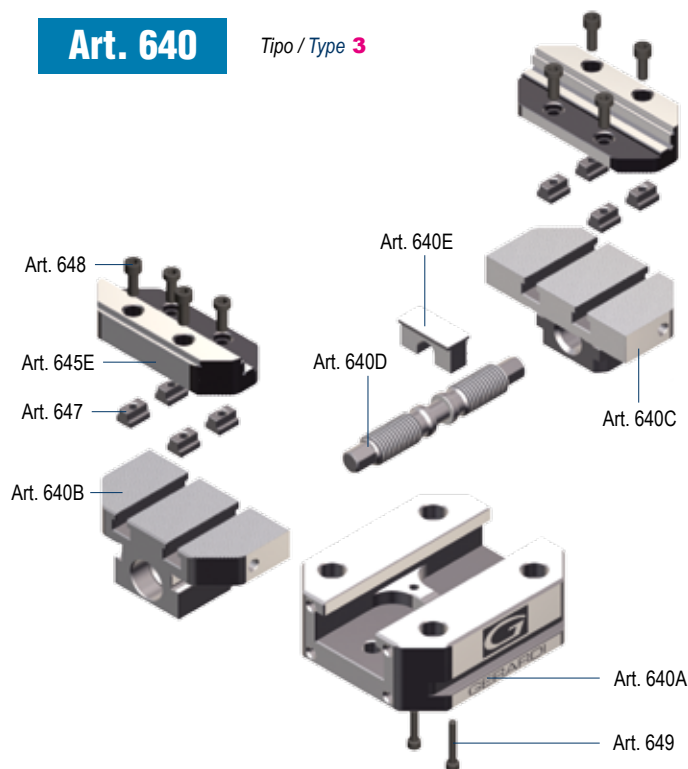
Example of order: Art. 640 type 3 x 166 (Art. 79 16mm + Art. 640P 40mm)

USARE STAFFE - USE SIDE CLAMPS
Art. 298 Tipo / Type **1xM10 / 1xM12 / 1xM16**



Art. 640

 Tipo / Type **1 e 2**

Art. 640

 Tipo / Type **3**


Tipo / Type	1	2
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Art. 641	Cod. 6.64.11000	6.64.12000
Corpo base Base body		

Art. 642	Cod. 6.64.21000	6.64.22000
Slitta integrale destra Solid slide right hand		

Art. 643	Cod. 6.64.31000	6.64.32000
Slitta integrale sinistra Solid slide left hand		

Art. 644	Cod. 6.64.41000	6.64.42000
Vite di bloccaggio Main screw		

Art. 645E	Cod. 6.64.5E100	6.64.5E200
Ganascia a gradino Step jaw		

Art. 646	Cod. 6.64.61000	6.64.62000
Forcella Yoke		

Art. 647	Cod. 6.64.71000	6.64.72000
Dado a T (Cad.) T nut (Each)		

Art. 648	Cod. 6.64.81000	6.64.82000
Vite per ganascia Hex socket head screw for jaw		

Art. 649	Cod. 6.64.91000	6.64.92000
Vite per forcella Hex socket head screw for yoke		

Tipo / Type	3 x 166	3 x 266
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Art. 640A	Cod. 7.64.0A3166	7.64.0A3266
Corpo base Base body		

Art. 640B	Cod. 7.64.0B3166	7.64.0B3266
Slitta integrale sinistra Solid slide left hand		

Art. 640C	Cod. 7.64.0C3166	7.64.0C3266
Slitta integrale destra Solid slide right hand		

Art. 640D	Cod. 7.64.0D3166	7.64.0D3266.43266
Vite di bloccaggio Main screw		

Art. 640E	Cod. 7.64.0E3166	7.64.0E3266
Forcella Yoke		

Art. 645E	Cod. 7.64.5E300	
Ganascia a gradino Step jaw		

Art. 647	Cod. 7.64.73000	
Dado a T (Cad.) T nut (Each)		

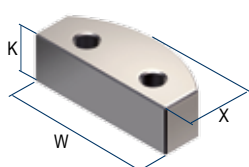
Art. 648	Cod. 7.64.83000	
Vite per ganascia Hex socket head crew for jaw		

Art. 649	Cod. 7.64.93000	
Vite per forcella Hex socket head crew for yoke		

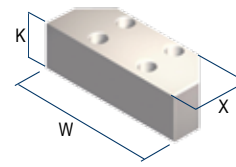
GANASCE PER MORSE MULTITASKING Art.640
JAWS FOR MULTITASKING VISES Art.640

Tipo (grandezza) / Type (size)	1	2	3
	B 15 Y 27,5 W 74	B 20 Y 32,5 W 99	B 30 Y 50 W 138

Art. 645B

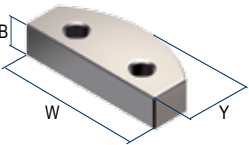
 Ganasca dolce
 Soft jaw


K	20	30
X	27,5	42,5
Cod.	6.64.5B100	6.64.5B200

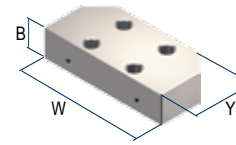


50	64
7.64.5B300	

Art. 645C

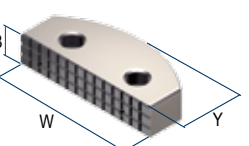
 Ganasca liscia
 Smooth jaw


Cod.	6.64.5C100	6.64.5C200
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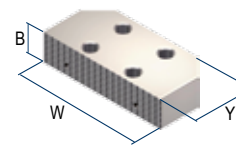


7.64.5C300	
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Art. 645D

 Ganasca zigrinata
 Serrated jaw


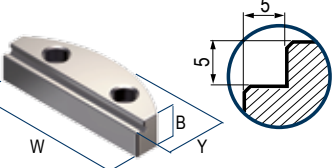
Cod.	6.64.5D100	6.64.5D200
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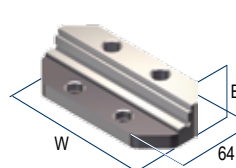
7.64.5D300	
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Art. 645E

 Ganasca a gradino
 Step jaw

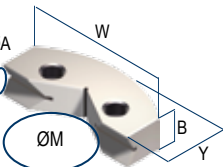
 In Dotazione
 Standard Equipment


Cod.	6.64.5E100	6.64.5E200
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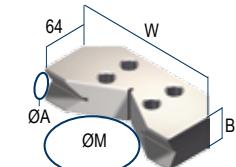


7.64.5E300	
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Art. 645F

 Ganasca prismatica
 Prismatic jaw


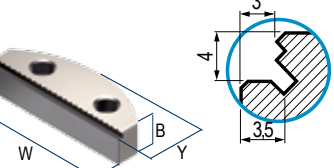
ØA	7 ÷ 15	9 ÷ 20
ØM	25 ÷ 70	35 ÷ 110
Cod.	6.64.5F100	6.64.5F200



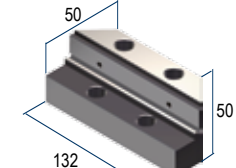
12 ÷ 30	50 ÷ 160
7.64.5F300	

Art. 645T

Ganasca GRIP Jaw



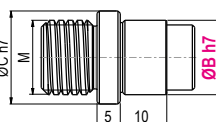
Cod.	6.64.5T100	6.64.5T200
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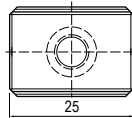
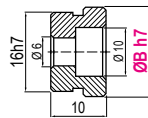


7.64.5T300	
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Tipo (grandezza) / Type (size)	1	2	3
	ØC h7 - M - ØB - Cod. -	- - - -	20 16 10-12-14-16-18-20 7.79.21600

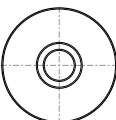
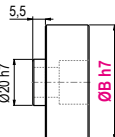
Art. 79

 Perno calibrato per centraggio e orientamento
 Calibrated centering and orientation pin

Art. 297

 Coppia di tasselli di posizionamento
 completi di vite M5 x 10
 Pair of positioning key-nuts with M5 x 10 clamping screw


ØB	10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 28 - 36	-
Cod.	2.29.71000	-

Art. 640P

 Perno calibrato per centraggio
 Calibrated centering pin


ØB	* Specificare	* Specify always
Cod.	7.64.0P1000	7.64.0P2000

* Specificare sempre quota ØB - Specify always ØB dimension

Tipo (grandezza) morsa / Vise (type) size

Art. 640J

 Tipo / Type **1 e 2**

 Morsa autocentrante.
 Azionamento manuale
 Serraggio meccanico

 Self-centering vise.
 Manual operation Mechanical clamping

kN	1 20 kN	2 26 kN
Ø A	30 ÷ 45	45 ÷ 70
W	74	99
B	60	80
C	50	70
D	Ø120	Ø160
E	35	35
F	92	120
G	30	40
H	156	208
L	M12	M16
M	Ø9	Ø11
kg	5	10
Cod.	7.64.0J100	7.64.0J200

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !
Art. 641H

 Tipo / Type **1 e 2**

 Rialzo Semplice
 Simple Riser


Cod. 7.64.1H100 7.64.1H200

Vedi gamma completa - See the complete range Page 7.14 / 7.15

Art. 655B

 Piastra ganascia dolce
 Soft jaw-plate

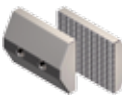

Cod. 7.65.5B100 7.65.5B200

Art. 655C

 Piastra ganascia liscia
 Smooth jaw-plate


Cod. 7.65.5C100 7.65.5C200

Art. 655D

 Piastra ganascia zigrinata
 Serrated jaw-plate


Cod. 7.65.5D100 7.65.5D200

Art. 655F

 Piastra ganascia prismatica
 Prismatic jaw-plate


Ø	10 ÷ 18	10 ÷ 30
Cod.	7.65.5F118	7.65.5F230
Ø	15 ÷ 23 * 23 ÷ 30	25 ÷ 45
Cod.	7.65.5F123	7.65.5F245

 * Per Ø 23÷30 ingombro max. (D1) = 132mm Ø (anziché 120mm)
 For Ø 23÷30 max overall dimension (D1) Ø132mm (instead of 120mm)

Art. 655J

 Coppia di ganasce integrali prismatiche
 Prismatic solid jaws (1 pair)


	30 ÷ 45	45 ÷ 70
Cod.	7.65.5J100	7.65.5J200

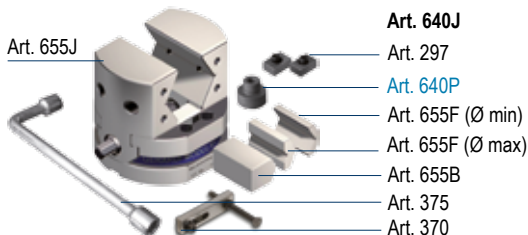
 Da usare in coppia
 To be used as a pair

In Dotazione - Standard Equipment

Dotazione standard:

- 1 chiave esagonale Art. 375 ■ 1 arresto laterale Art. 370
- 2 coppie di piastre Art. 655F (Tot. 4 pezzi) ■ 1 coppia di piastre dolci Art. 655B
- 1 coppia di tasselli di posizionamento Art. 297
- 1 perno calibrato per centraggio Art. 640P (Indicare dimensione in fase di ordine)

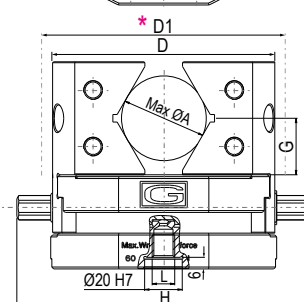
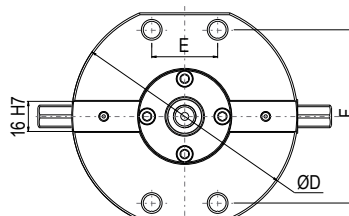
Art. 655J


Art. 640J

- Art. 297
- Art. 640P
- Art. 655F (Ø min)
- Art. 655F (Ø max)
- Art. 655B
- Art. 375
- Art. 370

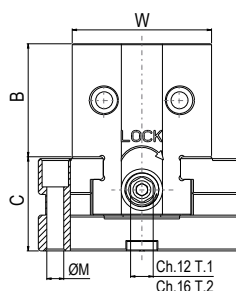
Standard equipment:

- 1 esagonale wrench Art. 375 ■ 1 workstop Art. 370
- 2 pair of plates Art. 655F (Tot. 4 pcs) ■ 1 pair soft jaw plates Art. 655B
- 1 pair of positioning key-nuts Art. 297 ■ 1 calibrated centering pin Art. 640P (Indicare dimensione in fase di ordine)


Art. 640J

 Tipo / Type **1 e 2**

 Esempio di ordine: Art. 640J tipo 2
 (Art.297 16mm + Art.640P 30mm)

 Example of order: Art. 640J type 2
 (Art.297 16mm + Art.640P 30mm)


Tipo (grandezza) morsa / Vise (type) size

Art. 640J *Tipo / Type 3 x 166*

Morsa autocentrante.
Azionamento manuale.
Serraggio meccanico

Self-centering vise.
Manual operation Mechanical clamping

	3
kN	30 kN
Ø A	44 ÷ 68
A1	-
W	78
B	75
C	58
D	166
E	-
G	45
kg	15
Cod.	7.64.0J310

Tipo (grandezza) morsa / Vise (type) size

Art. 640J *Tipo / Type 3 x 266*

Morsa autocentrante.
Azionamento manuale.
Serraggio meccanico

Self-centering vise.
Manual operation Mechanical clamping

	3
kN	30 kN
Ø A	48 ÷ 102
A1	66
W	78
B	95
C	58
D	266
E	200
G	55
kg	22
Cod.	7.64.0J320

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art. 641H

Tipo / Type 3 x 166

Rialzo Semplice
Simple Riser

Cod. 7.64.1H3166

Art. 641H

Tipo / Type 3 x 266

Rialzo Semplice
Simple Riser

Cod. 7.64.1H3266

Vedi gamma completa - See the complete range Page 7.14 / 7.15

Art. 655B

Piastra ganascia dolce
Soft jaw-plate

Cod. 7.65.5B316

Art. 655C

Piastra ganascia liscia
Smooth jaw-plate

Cod. 7.65.5C316

Art. 655D

Piastra ganascia zigrinata
Serrated jaw-plate

Cod. 7.65.5D316

Art. 655F

Piastra ganascia prismatica
Prismatic jaw-plate

<i>Tipo / Type 3 x 166</i> Ø Min / Ø Max	12 ÷ 32	14 ÷ 34	16 ÷ 36	18 ÷ 45
<i>Tipo / Type 3 x 266</i> Ø Min / Ø Max	12 ÷ 38	14 ÷ 48	16 ÷ 58	24 ÷ 65
Cod	7.65.5F330	7.65.5F335	7.65.5F345	7.65.5F350

Art. 655J

Coppia di ganasce integrali prismatiche
Prismatic solid jaws (1 pair)

Da usare in coppia
To be used as a pair

In Dotazione - Standard Equipment

Ø	44 ÷ 68	48 ÷ 102
Cod.	7.65.5J316	7.65.5J326

Dotazione standard:

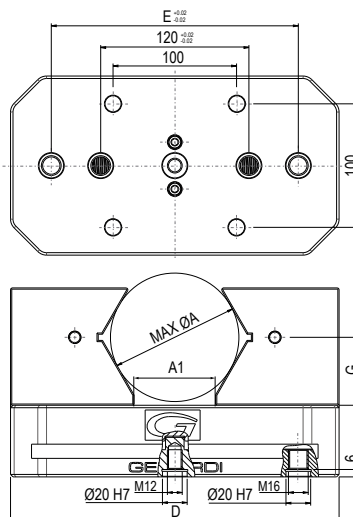
- 1 chiave a pipa Art. 375 ■ 1 arresto laterale Art. 370
- 2 coppie di piastre Art. 655F (Tot. 4 pezzi) ■ 1 coppia di piastre dolci Art. 655B
- 1 perno calibrato per centraggio e orientamento Art. 79
- 1 perno calibrato per centraggio Art. 640P (Indicare dimensione in fase di ordine)

Art. 655J

Art. 79
Art. 640P
Art. 655F (Ø min)
Art. 655F (Ø max)
Art. 655B
Art. 375
Art. 370

Standard equipment:

- 1 box wrench Art. 375 ■ 1 workshop Art. 370
- 2 pair of plates Art. 655F (Tot. 4 pcs) ■ 1 pair soft jaw plates Art. 655B
- 1 calibrated centering and orientation pin Art. 79
- 1 calibrated centering pin Art. 640P (Dimension to be advised at order)

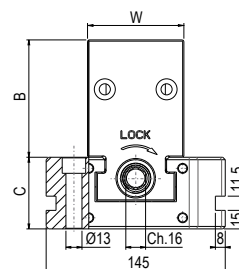


Art. 640J *Tipo / Type 3*

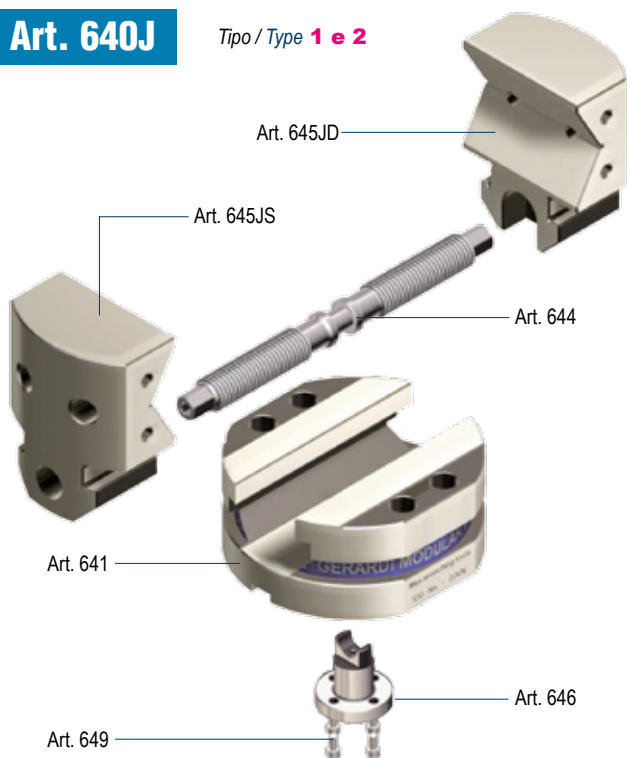
Esempio di ordine: Art. 640J tipo 3 x 266
(Art. 79 16mm + Art. 640P 30mm)

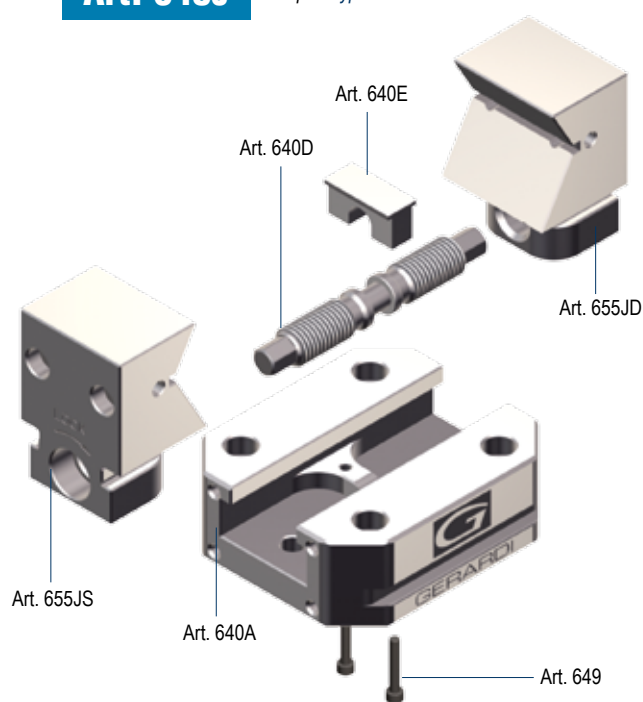
Example of order: Art. 640J type 3 x 266
(Art. 79 16mm + Art. 640P 30mm)

USARE STAFFE - USE SIDE CLAMPS
Art. 298 *Tipo / Type 1xM10 / 1xM12 / 1xM16*



Art. 640J

 Tipo / Type **1 e 2**

Art. 640J

 Tipo / Type **3**


Tipo / Type	1	2
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Art. 641	Cod.	6.64.11000	6.64.21000
Corpo base Base body			

Art. 644	Cod.	6.64.41000	6.64.42000
Vite di bloccaggio Main screw			

Art. 645JD *	Cod.	7.64.5JD10	7.64.5JD20
Ganascia integrale prismatica dx Solid prismatic right jaw			

Art. 645JS *	Cod.	7.64.5JS20	7.64.5JS10
Ganascia integrale prismatica sx Solid prismatic left jaw			

Art. 646	Cod.	6.64.61000	6.64.462000
Forcella Yoke			

Art. 649	Cod.	6.64.91000	6.64.492000
Vite per forcella Hex socked head crew for yoke			

Tipo / Type	3 x 166	3 x 266
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Art. 640A	Cod.	7.64.0A3166	7.64.0A3266
Corpo base Base body			

Art. 640D	Cod.	7.64.0D3166	7.64.0D3266
Vite di bloccaggio Main screw			

Art. 640E	Cod.	7.64.0E3166	7.64.0E3266
Forcella Yoke			

Art. 655JD *	Cod.	7.65.5JD316	7.65.5JD326
Ganascia integrale prismatica dx Solid prismatic right jaw			

Art. 655JS *	Cod.	7.65.5JS316	7.65.5JS326
Ganascia integrale prismatica sx Solid prismatic left jaw			

Art. 649	Cod.	7.64.93000	
Vite per forcella Hex socked head crew for yoke			

* **Art. 655JD** + **Art. 655JS** = **Art. 655J**

GANASCE & PIASTRE GANASCE PER MORSE MULTITASKING Art.640J JAWS & JAW PLATES FOR MULTITASKING VISES Art.640J

Tipo (grandezza) / Type (size)	1	2	3
Art. 655J Tipo / Type 1-2 Coppia di ganasce integrali prismatiche Prismatic solid jaws (1 pair)	W 74 K 60 X 49 Ø 30 ÷ 45 Cod. 7.65.5J100	99 80 59 45 ÷ 70 7.65.5J200	78 75 59 44 ÷ 68 7.65.5J316
			78 95 95 48 ÷ 102 7.65.5J326

Art. 655J Tipo / Type 3 In Dotazione - Standard Equipment			
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Art. 655B Piastra ganascia dolce Soft jaw-plate	K 55 X 38 Cod. 7.65.5B100	70 54 7.65.5B200	60 49 7.65.5B316
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Art. 655C Piastra ganascia liscia Smooth jaw-plate	K 55 X 23 Cod. 7.65.5C100	70 32 7.65.5C200	60 24 7.65.5C316
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Art. 655D Piastra ganascia zigrinata Serrated jaw-plate	K 55 X 23 Cod. 7.65.5D100	70 32 7.65.5D200	60 24 7.65.5D316
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Tipo (grandezza) / Type (size)	1	2	3x166	3x266
Art. 655F Piastra ganascia prismatica Prismatic jaw-plate	K 43 X 17 Ø 10 ÷ 18 Cod. 7.65.5F118	54 22 10 ÷ 30 7.65.5F230	60 24 12 ÷ 32 7.65.5F330	60 24 12 ÷ 38 7.65.5F335
	Ø 15 ÷ 23-23 ÷ 30 *	25 ÷ 45 7.65.5F245	14 ÷ 34 7.65.5F345	12 ÷ 38 7.65.5F350
	Ø - Cod. -	- -	16 ÷ 36 7.65.5F345	16 ÷ 58 7.65.5F350
	Ø - Cod. -	- -	18 ÷ 45 7.65.5F350	24 ÷ 65

* Per Ø 23÷30 ingombro max. (D1) = 132mm Ø (anziché 120mm)
 For Ø 23÷30 max overall dimension (D1) Ø132mm (instead of 120mm)

Tipo (grandezza) / Type (size)	1	2	3
Art. 79 Perno calibrato per centraggio e orientamento Calibrated centering and orientation pin	ØC h7 M ØB Cod. -	- - - -	20 16 10-12-14-16-18-20 7.79.21600

Art. 297 Coppia di tasselli di posizionamento completi di vite M5 x 10 Pair of positioning key-nuts with M5 x 10 clamping screw	16h7 0.6 Ø10 ØB h7 10 25		B 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 28 - 36 Cod. 2.29.71000
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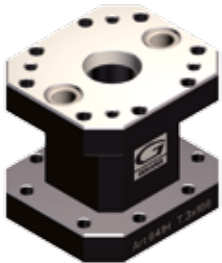
Art. 640P Perno calibrato per centraggio Calibrated centering pin	5.5 Ø20 h7 ØB h7		ØB * Specificare Cod. 7.64.0P1000
			* Specify always 7.64.0P2000

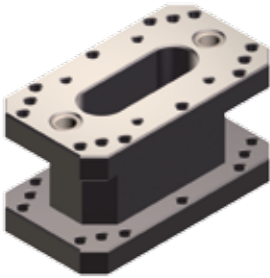
* Specificare sempre quota B - Specify always B dimension

RIALZI IN ACCIAIO per MORSE Art.640

STEEL RISERS for VISES Art.640

Tipo Rialzo (grandezza) - Riser Type (size)		1				2			
Art. 641H Tipo / Type 1 e 2 Rialzo semplice Simple riser 	ØA	119				158			
	C	50	75	100	130	50	75	100	130
	F	9				11			
	L	92				120			
	M	35				35			
	ØJ	50 H7				50 H7			
	kg	2,4	3,6	4,5	5	4,7	7,4	9,2	10
	Cod.	7.64.1H100/50	7.64.1H100/75	7.64.1H100/100	7.64.1H100/130	7.64.1H200/50	7.64.1H200/75	7.64.1H200/100	7.64.1H200/130

Tipo Rialzo (grandezza) - Riser Type (size)	3			
Art. 641H				
<i>Tipo / Type 3 x 166</i>				
Rialzo semplice Simple riser				
	A	166		
	B	145		
	C	50	75	100
	D	120		
	E	120		
	L	140		
	L1	60		
	M	126		
	M1	70		
	ØJ	50 H7		
	kg	7,5	8	9,6
	Cod.	7.64.1H3166/50	7.64.1H3166/75	7.64.1H3166/100
				7.64.1H3166/145

Tipo Rialzo (grandezza) - Riser Type (size)	3			
Art. 641H				
<i>Tipo / Type 3 x 266</i>				
Rialzo semplice Simple riser				
	A	266		
	B	125		
	C	50	75	100
	D	200		
	E	200		
	L	240		
	L1	160		
	M	125		
	M1	80		
	ØJ	-		
	kg	10,6	11,8	14,5
	Cod.	7.64.1H3266/50	7.64.1H3266/75	7.64.1H3266/100
				7.64.1H3266/145

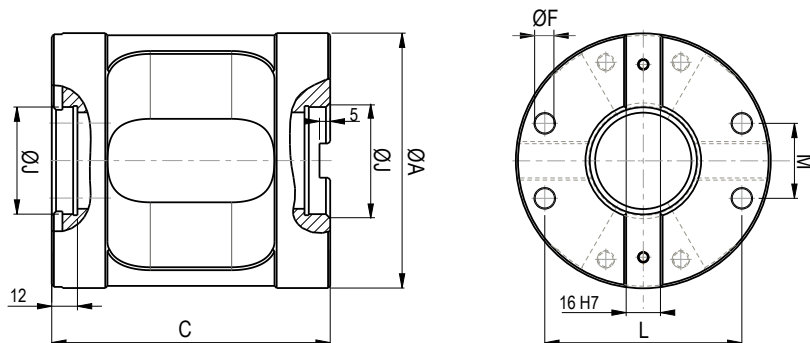
RIALZI IN ACCIAIO per MORSE Art.640

STEEL RISERS for VISES Art.640

Art. 641H

Tipo / Type **1 e 2**

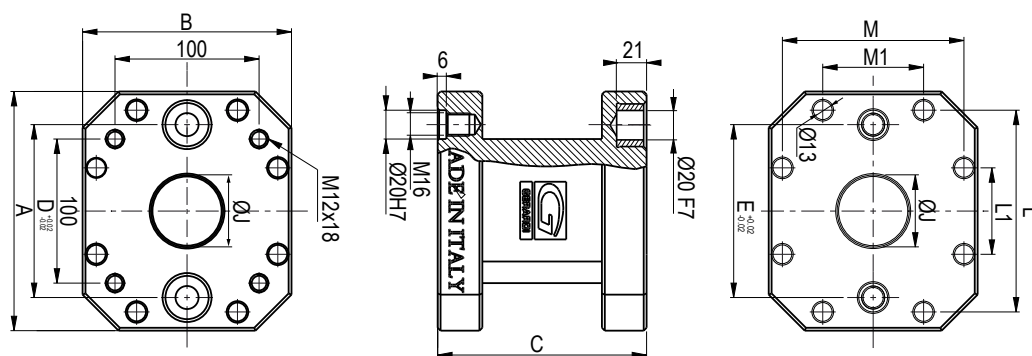
Rialzo semplice
Simple riser



Art. 641H

Tipo / Type **3 x 166**

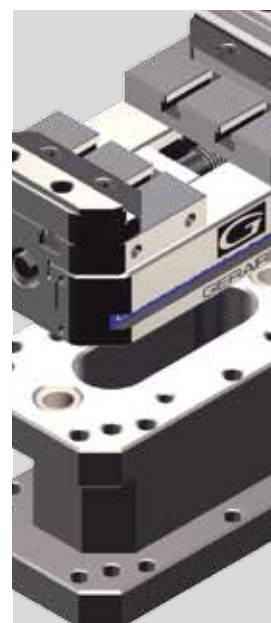
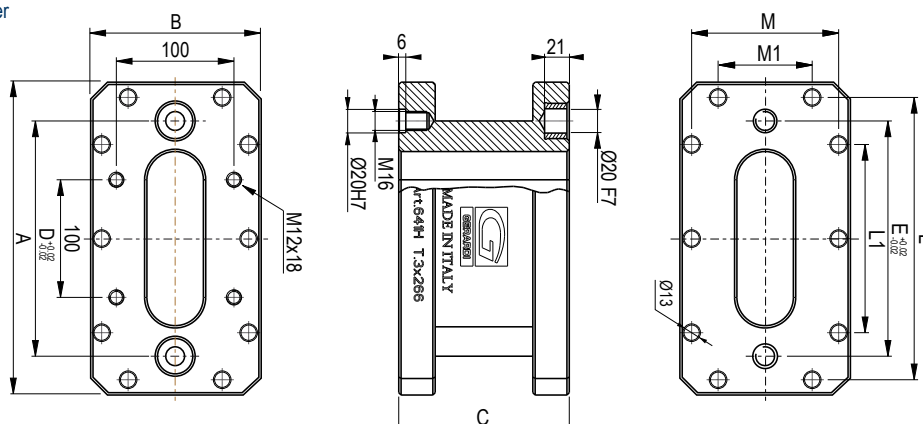
Rialzo semplice
Simple riser



Art. 641H

Tipo / Type 3 x 266

Rialzo semplice
Simple riser

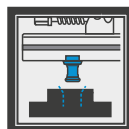
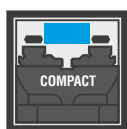


ESEMPI APPLICATIVI MORSE COMPACT GRIP SU CENTRI DI LAVORO A 5 ASSI

COMPACT GRIP VISES APPLICATION EXAMPLES ON 5 AXIS MACHINES

NOVITA' ASSOLUTA

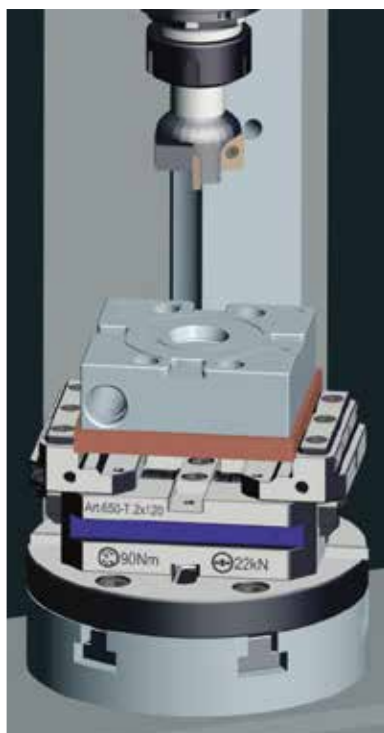
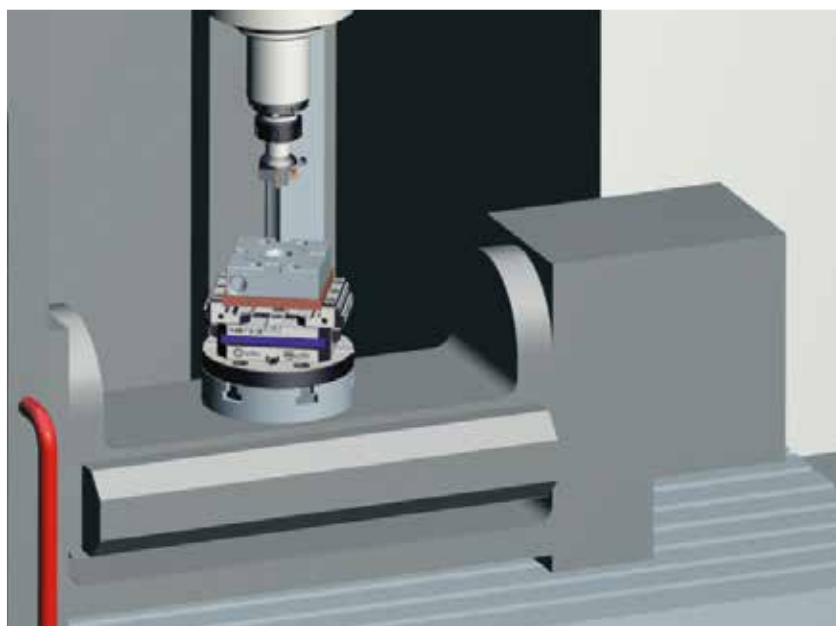
NEW!



Art.650 Compact Grip

La novità assoluta per centri a 5 assi e sistemi multipli sono le morse autocentranti Compact Grip. Il loro nome accosta le principali peculiarità della morsa date dall'estrema compattezza e maneggevolezza al nome del sistema di inserti che adotta, cosiddetto "GRIP". Questo sistema consiste in una gamma di inserti ganascia modulari montati sopra al corpo ganascia principale con la funzione di serrare il particolare da lavorare tramite dei dentini affilati o conformati a seconda del tipo di materiale e di durezza.

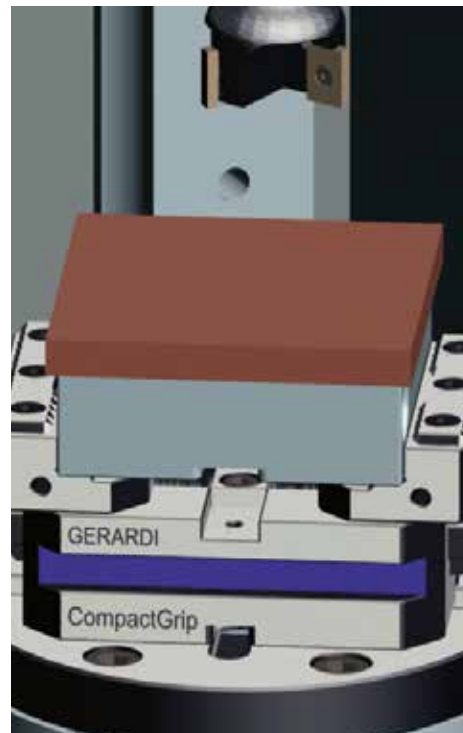
The absolute news for 5 axis machine centres and new multiclamping system are the self-centering Compact Grip vises. Their name identifies the main vise features which are the extreme compactness and easiest handling and the system of inserts which adopts, so called "GRIP". This system includes a range of jaw plates assembled on the top of the main jaw with the function of clamping the workpiece through sharp or duly shaped teeth according to the material type and hardness to clamp.



Tramite l'inserto Grip si esegue la sgrossatura e la finitura del pezzo sui cinque lati.
Through the Grip insert you can rough mill and finish the workpiece on five sides.



Dettaglio Inserto Grip.
Insert Grip detail.



Tramite il gradino liscio della ganascia si rimuove il sovrametallo rimanente e si finisce il particolare.
Then through the smooth jaw step you can remove the remaining stock allowance from the workpiece and finish the workpiece.

ESEMPI APPLICATIVI MORSE FMS SU CENTRI A 5 ASSI FMS VISES APPLICATION EXAMPLES ON 5 AXIS MACHINES

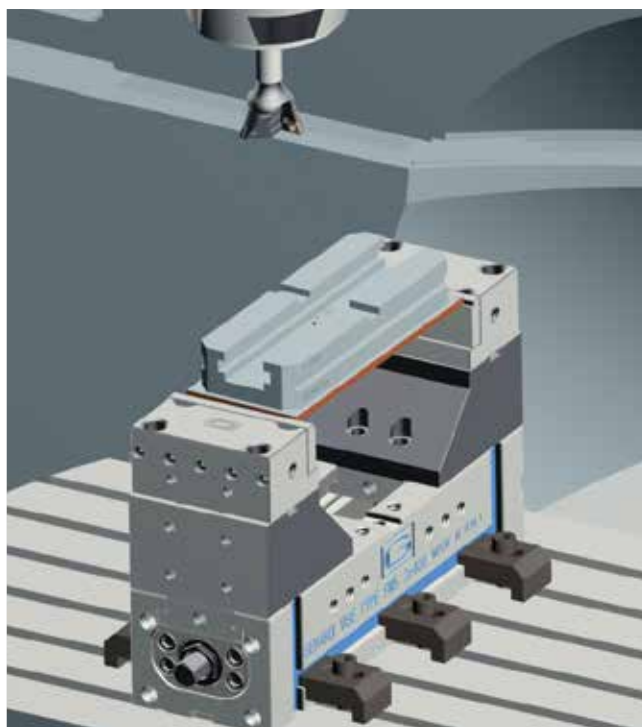
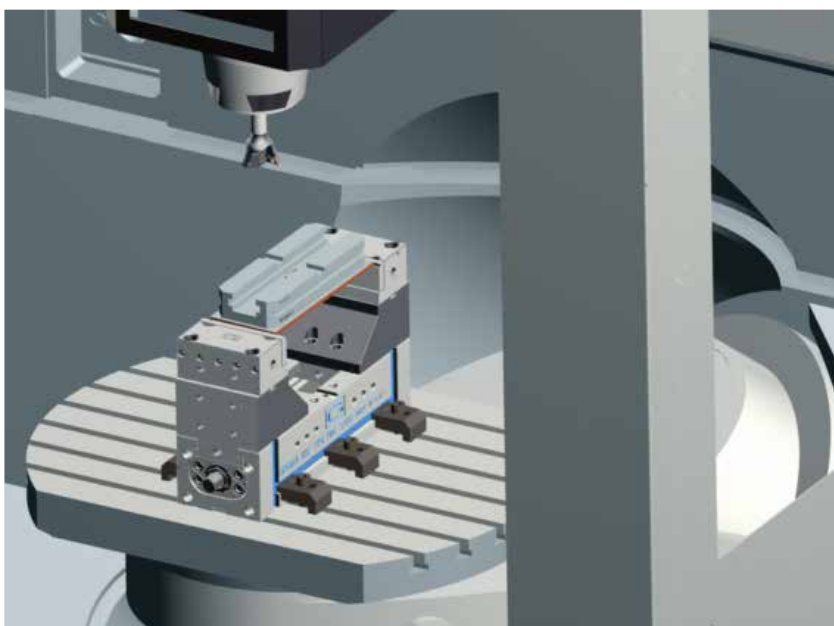
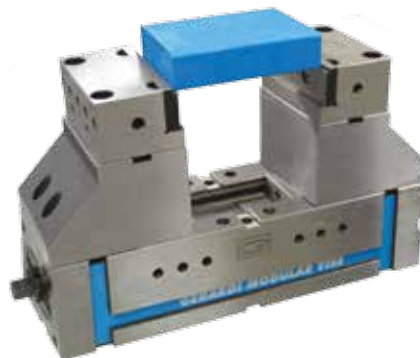
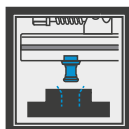
NEW!

Art.868 FMS series

Grazie all'estrema versatilità del sistema modulare Gerardi anche le morse FMS, adeguatamente riconfigurate, possono rientrare nella cosiddetta categoria di morse Multitasking per centri di lavoro a 5 assi. Basterà quindi montare la base mobile Art.814 con le relative ganasce Art.805V sul modulo base universale Art.855.

Thanks to the extreme versatility of the Gerardi Modular System even the FMS vises, properly reconfigured, can be used as Multitasking vises for 5 axis machine centres.

It will be enough to assemble the movable base Art.814 with the Art.805V jaws on the universal vise base module Art.855



Particolare sollevato tramite base mobile Art.814
Workpiece raised by movable base Art.814



Dettaglio serraggio tramite piastrina GRIP Art.247T
Detail of clamping by GRIP jaw plate Art.247T

Tipo (grandezza) morsa / Vise (type) size

kN

1

12 kN

2

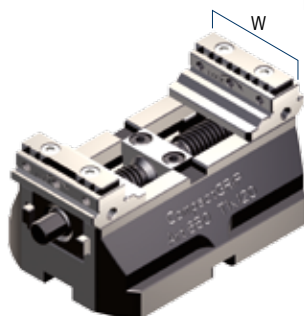
22 kN

Art. 650

Tipo / Type **1x120**

Morsa Autocentrante Compact Grip con ganasce reversibili, ideale per centri a 5 assi

COMPACT GRIP
NEW!



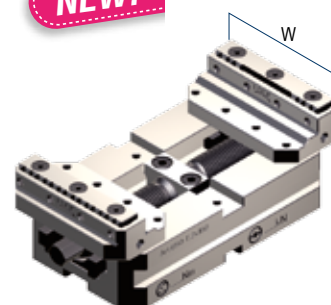
Self-centering Compact Grip vise. with reversible jaws, Ideal for five axis centres.

A	48	88	128
A1		6	
W		50	
B		65	
C		45	
C1		53	
C2		61	
D		80	
E	80	120	160
F		52	
L		12	
L1		M8	
kg	1,8	2,6	3,4
Cod.	7.65.01080	7.65.01120	7.65.01160

Art. 650

Tipo / Type **2x160**

COMPACT GRIP
NEW!



AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

Art. 651H

Tipo / Type **1**

Rialzo Semplice
Simple Riser



Vedi gamma completa - See the complete range Page 7.26 / 7.27

Cod.	7.65.1H108 / 100	7.65.1H112 / 100	7.65.1H116 / 100

Art. 651H

Tipo / Type **2**

Rialzo Semplice
Simple Riser

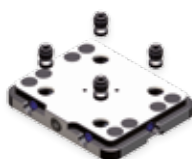


Art. 660

Interasse / Type

52 mm

Tavola cambio rapido
Quick change table



Vedi gamma completa - See the complete range Page 7.28 / 7.29

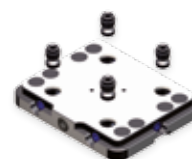
Cod.	9.66.05200

Art. 660

Interasse / Type

52 mm

Tavola cambio rapido
Quick change table

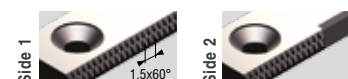


Art. 650T G01

Inserti ganasce - Top jaw inserts
GRIP (Passo - Pitch 1,5mm)



Cod.	7.65.0T100/01
€	

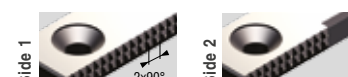


Art. 650T G02

Inserti ganasce - Top jaw inserts
GRIP (Passo - Pitch 2mm)



Cod.	7.65.0T100/02
€	

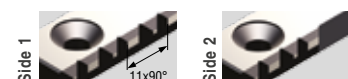


Art. 650T G11

Inserti ganasce - Top jaw inserts
GRIP (Passo - Pitch 11mm)

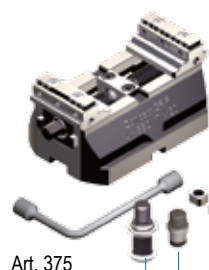


Cod.	7.65.0T100/11
€	



Dotazione standard:

- 1 chiave a pipa Art.375 ■ 1 coppia di inserti extra Art.650T ■ 1 perno calibrato per centraggio e orientamento Art.79 oppure 1 tirante zero point Art.11S ■ 1 arresto laterale Art.370
- 2 tasselli di posizionamento Art.297 ■ 2 tasselli per regolazione autocentrante Art.650G



Art. 650

Art. 370 / EM

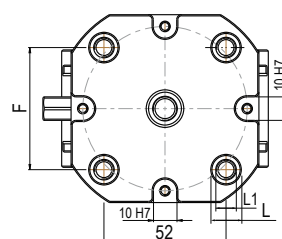
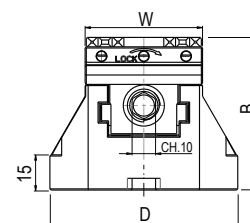
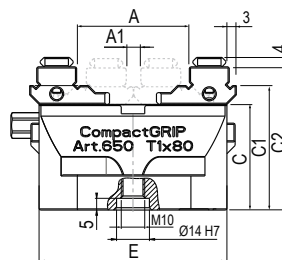
Art. 297

Art. 650G

Art.650T-G01

Art.79 or Art.11S

(a scelta / to be choosen)



Art. 650

Tipo / Type **1**

USARE STAFFE
USE SIDE CLAMPS

Art.298 Tipo / Type

1xM10 / 1xM12 / 1xM16

Standard equipment:

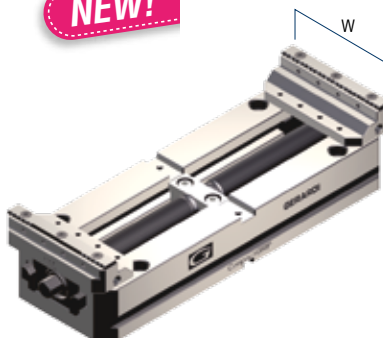
- 1 box wrench Art.375 ■ 1 extra pair of top jaw inserts Art.650T- G01
- 1 calibrated centering and orientation pin (Art.79) or 1 pull stud for zero point (Art.11A)
- 2 positioning key-nuts Art.297 ■ 2 self-centering key-nuts Art.650G ■ 1 workstop Art.370

2 22 kN				
kN				
A	96	136	176	216
A1			10	
W			88	
B			65	
C			38	
C1			51	
C2			61	
D			90	
E	120	160	200	240
F			52	
L			12	
L1			M8	
kg	3,6	4,4	5,2	5,8
Cod.	7.65.02120	7.65.02160	7.65.02200	7.65.02240

Art. 650

Tipo / Type **3x310**

COMPACT GRIP
NEW!



3 32 kN				
kN				
126	176	226	276	326
		10		
		123		
		89		
		57		
		75		
		85		
		125		
160	210	260	310	360
		96		
		16		
		M10		
9,1	10,9	12,8	14,8	17
7.65.03160	7.65.03210	7.65.03260	7.65.03310	7.65.03360

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art. 651H

Tipo / Type **2**

Art. 651H

Vedi gamma completa - See the complete range Page 7.26 / 7.27

Cod.	7.65.1H212 / 100	7.65.1H216 / 100	7.65.1H220 / 100	7.65.1H224 / 100
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Tipo / Type **3**

7.65.1H212 / 100	7.65.1H316 / 100	7.65.1H326 / 100	7.65.1H331 / 100	7.65.1H336 / 100
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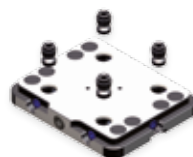
Art. 660

Interasse / Type **52mm**

Art. 660

Vedi gamma completa - See the complete range Page 7.28 / 7.29

Cod.	9.66.05200
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Interasse / Type
96 mm
Tavola cambio rapido
Quick change table

Cod.	7.65.0T200/01
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Art. 650 G01

Per materiali di durezza normale
For standard workpieces hardness clamping

7.65.0T300/01

Cod.	7.65.0T200/02
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Art. 650 G02

Per materiali di notevole durezza
For hardened workpieces clamping

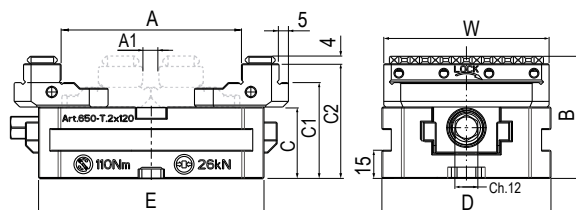
7.65.0T300/02

Cod.	7.65.0T200/11
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Art. 650 G11

Per materiali teneri
For soft material clamping

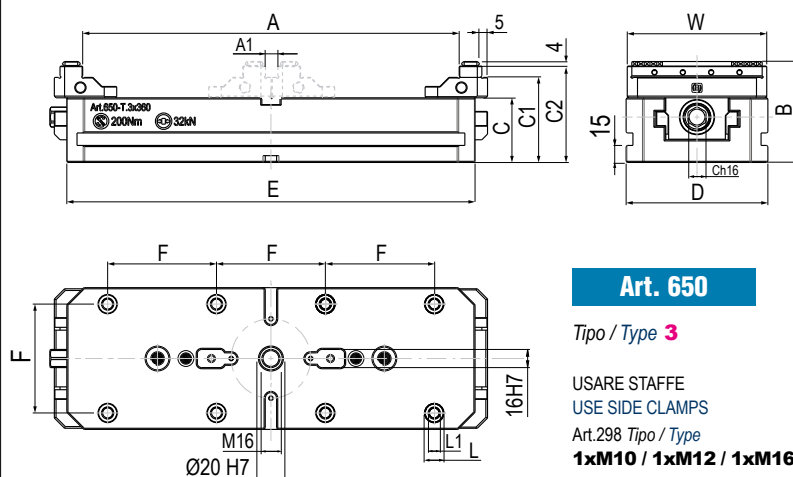
7.65.0T300/11



Art. 650

Tipo / Type **2**

USARE STAFFE
USE SIDE CLAMPS
Art.298 Tipo / Type
1xM10 / 1xM12 / 1xM16



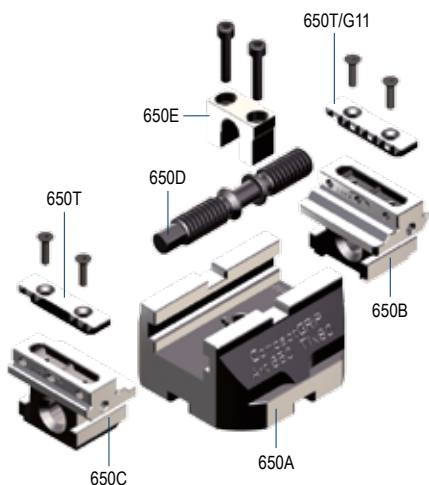
Art. 650

Tipo / Type **3**

USARE STAFFE
USE SIDE CLAMPS
Art.298 Tipo / Type
1xM10 / 1xM12 / 1xM16

Art. 650

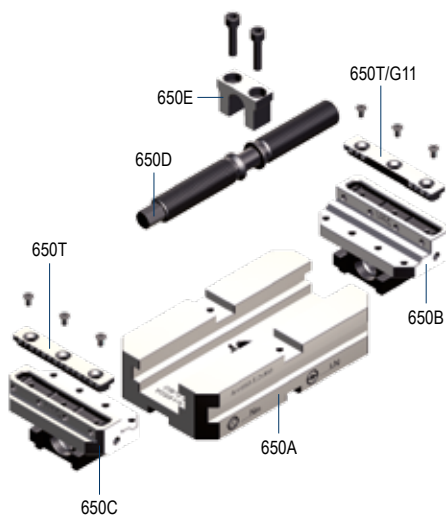
Tipo / Type 1

NEW!


Tipo / Type 1	1x80	1x120	1x160
Art. 650A	Cod. 7.65.0A1080	7.65.0A1120	7.65.0A1160
Corpo base - Base body			
Art. 650B *	Cod. 7.65.0B1000		
Ganascia integrale destra Solid jaw right hand			
Art. 650C *	Cod. 7.65.0C1000		
Ganascia integrale sinistra Solid jaw left hand			
Art. 650D	Cod. 7.65.0D1080	7.65.0D1120	7.65.0D1160
Vite di bloccaggio - Main screw			
Art. 650E	Cod. 7.65.0E1000		
Forcella - Yoke			
Art. 650T / G11	Cod. 7.65.0T1000 / G11		
Perno di posizionamento Positioning pin			

Art. 650

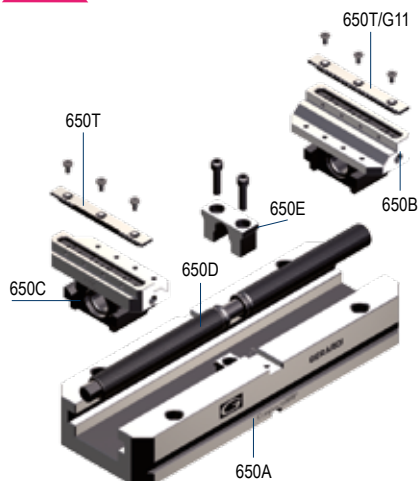
Tipo / Type 2

NEW!


Tipo / Type 2	2x120	2x160	2x200	2x240
Art. 650A	Cod. 7.65.0A2120	7.65.0A2160	7.65.0A2200	7.65.0A2240
Corpo base - Base body				
Art. 650B *	Cod. 7.65.0B2000			
Ganascia integrale destra Solid jaw right hand				
Art. 650C *	Cod. 7.65.0C2000			
Ganascia integrale sinistra Solid jaw left hand				
Art. 650D	Cod. 7.65.0D2120	7.65.0D2160	7.65.0D2200	7.65.0D2240
Vite di bloccaggio - Main screw				
Art. 650E	Cod. 7.65.0E2000			
Forcella - Yoke				
Art. 650T / G11	Cod. 7.65.0T2000 / G11			
Perno di posizionamento Positioning pin				

Art. 650

Tipo / Type 3

NEW!


Tipo / Type 3	3x160	3x210	3x260	3x310	3x360
Art. 650A	Cod. 7.65.0A3160	7.65.0A3210	7.65.0A3260	7.65.0A3260	7.65.0A3360
Corpo base - Base body					
Art. 650B *	Cod. 7.65.0B3000				
Ganascia integrale destra Solid jaw right hand					
Art. 650C *	Cod. 7.65.0C3000				
Ganascia integrale sinistra Solid jaw left hand					
Art. 650D	Cod. 7.65.0D3160	7.65.0D3210	7.65.0D3260	7.65.0D3310	7.65.0D3360
Vite di bloccaggio - Main screw					
Art. 650E	Cod. 7.65.0D3000				
Forcella - Yoke					
Art. 650T / G11	Cod. 7.65.0T3000/G11				
Perno di posizionamento Positioning pin					

ACCESSORI PER MORSE COMPACT GRIP Art.650

Art.650 COMPACT GRIP VISES ACCESSORIES

COMPACT GRIP
NEW!

Coppie di inserti ganasce - Pair of top jaw inserts

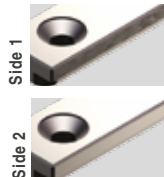
1

2

3

Art. 650S

LISCI + RUVIDI - SMOOTH + ROUGH

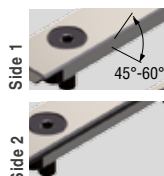
Materiali teneri e lavorazioni finali
Soft material clamping and final machining


Cod. 7.65.0S100 7.65.0S200 7.65.0S300



Art. 650R

CODA DI RONDINE - DOVE TAIL

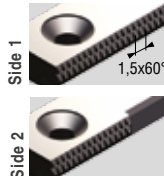
Miglior presa pezzo
Best workpiece clamping


Cod. 7.65.0R100 7.65.0R200 7.65.0R300



Art. 650T G01

GRIP (Passo - Pitch 1,5mm)

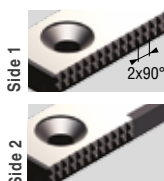
Per materiali di durezza normale
For standard workpieces hardness clamping


Cod. 7.65.0T100/G01 7.65.0T200/G01 7.65.0T300/G01



Art. 650T G02

GRIP (Passo - Pitch 2mm)

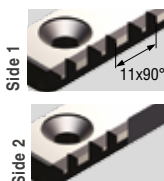
Per materiali di notevole durezza
For hardened workpieces clamping


Cod. 7.65.0T100/G02 7.65.0T200/G02 7.65.0T300/G02



Art. 650T G11

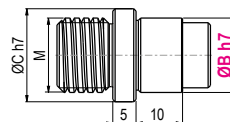
GRIP (Passo - Pitch 11mm)

Per materiali teneri
For soft material clamping


Cod. 7.65.0T100/G11 7.65.0T200/G11 7.65.0T300/G11

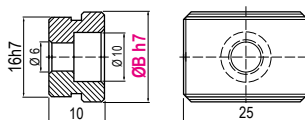


Art. 79

Perno calibrato per centraggio e orientamento
Calibrated centering and orientation pin


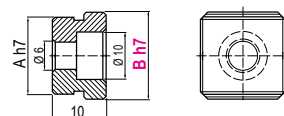
ØC h7	14	14	20
M	10	12	16
ØB	10 - 12 - 14 - 16 - 18 - 20		
Cod.	7.79.11000	7.79.11200	7.79.21600

Art. 297

Coppia di tasselli di posizionamento
completi di vite M5 x 10
Pair of positioning key-nuts with M5 x 10 clamping screw


B	10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 28 - 36
Cod.	2.29.71000

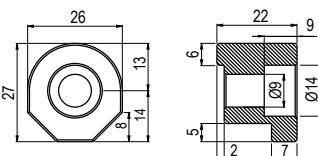
Art. 650G

Coppia di tasselli per regolazione autocentrante
Pair of key-nuts for self-centering


A	10	16
B	10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 28 - 36	
Cod.	7.65.0G1000	7.65.0G2000

Specificare sempre quota B - Specify always B dimension

Art. 298 / CGR

Staffa per Compact Grip
Compact Grip holding clamp


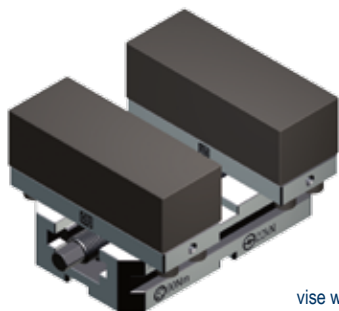
Cod. 2.29.81000/CGR

Tipo (grandezza) morsa / Vise (type) size

Art. 950

Tipo / Type **2x160**

Morsa Autocentrante Compact Grip
con ganasce **lavorabili in acciaio**,
ideale per centri a 5 assi



COMPACT GRIP
NEW!

Self-centering Compact Grip
vise with **machineable steel jaws**,
Ideal for five axis centres.

kN

2

22 kN

	30	70	110	150
A				
W			128	
B			93	
C			38	
C1			53	
D			90	
E	120	160	200	240
F			52	
L			Ø12	
L1			M8	
kg	7,9	8,7	9,5	10,1
Cod.	7.95.02120	7.95.02160	7.95.02200	7.95.02240

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

Art. 651H

Tipo / Type **2**

Rialzo Semplice
Simple Riser



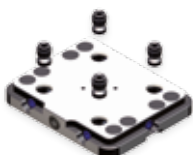
Vedi gamma completa - See the complete range Page 7.26 / 7.27

Cod.	7.65.1H212 / 100	7.65.1H216 / 100	7.65.1H220 / 100	7.65.1H224 / 100
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Art. 660

Interasse / Type **52 mm**

Tavola cambio rapido
Quick change table

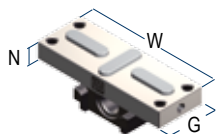


Vedi gamma completa - See the complete range Page 7.28 / 7.29

Cod.	9.66.05200
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Art. 950B

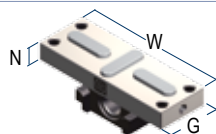
Slitta **DESTRA** con chiavette
Solid hardened slide **RIGHT HAND** with
positioning key nuts



Cod.	7.95.0B2000
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Art. 950C

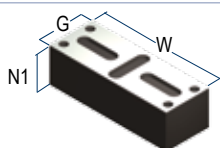
Slitta **SINISTRA** con chiavette
Solid hardened slide **LEFT HAND** with
positioning key nuts



Cod.	7.95.0C2000
------	-------------

Art. 950D

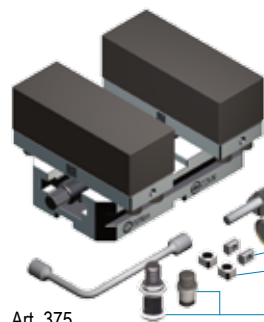
Ganascia lavorabile in acciaio
Machineable steel jaw



Cod.	7.95.0D2000
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Dotazione standard:

- 1 chiave a pipa Art.375 ■ 1 coppia di inserti extra Art.650T ■ 1 perno calibrato per centraggio e orientamento Art.79 **oppure** 1 tirante zero point Art.11S
- 1 arresto laterale Art.370 ■ 2 tasselli di posizionamento Art.297
- 2 tasselli per regolazione autocentrante Art.650G



Art. 950

Art. 370 / EM

Art. 297

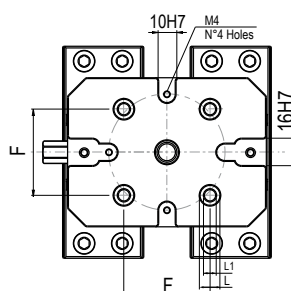
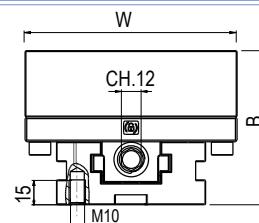
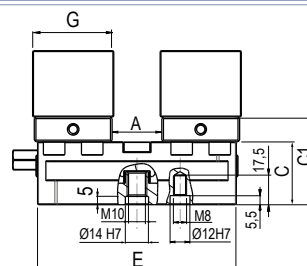
Art. 650G

Art.79 or Art.11S

(a scelta / to be choosen)

Standard equipment:

- 1 box wrench Art.375 ■ 1 extra pair of top jaw inserts Art.650T- G01
- 1 calibrated centering and orientation pin (Art.79) **or** 1 pull stud for zero point (Art.11A)
- 2 positioning key-nuts Art.297 ■ 2 self-centering key-nuts Art.650G ■ 1 workstop Art.370



Art. 950

Tipo / Type **2**

USARE STAFFE
USE SIDE CLAMPS

Art.298 Tipo / Type

1xM10 / 1xM12 / 1xM16



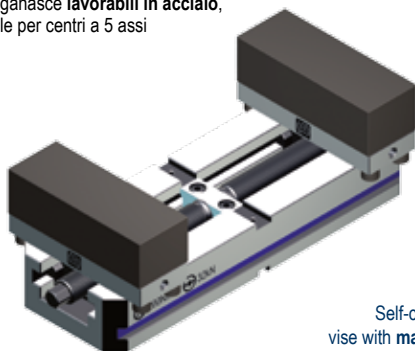
MADE IN ITALY

Tipo (grandezza) morsa / Vise (type) size

Art. 950

Tipo / Type **3x360**

Morsa Autocentrante Compact Grip con ganasce **lavorabili in acciaio**, ideale per centri a 5 assi



COMPACT GRIP
NEW!

Self-centering Compact Grip vise with **machineable steel jaws**, Ideal for five axis centres.

kN	3				
	32 kN				
A	40	90	130	180	230
W			160		
B			124		
C			57		
C1			77		
D			125		
E	160	210	260	310	360
F			96		
L			Ø16		
L1			M10		
kg	16.9	18.7	20.6	22.6	24.8
Cod.	7.95.03160	7.95.03210	7.95.03260	7.95.03310	7.95.03360

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art. 651H

Tipo / Type **3**

Rialzo Semplice
Simple Riser



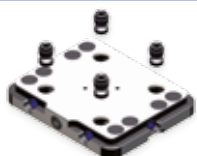
Vedi gamma completa - See the complete range Page 7.26 / 7.27

Cod.	7.65.1H212 / 100	7.65.1H316 / 100	7.65.1H326 / 100	7.65.1H331 / 100	7.65.1H336 / 100
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Art. 660

Interasse / Type **96 mm**

Tavola cambio rapido
Quick change table

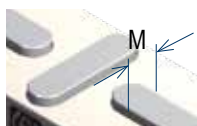


Vedi gamma completa - See the complete range Page 7.28 / 7.29

Cod.	9.66.09600
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Art. 950B

Slitta **DESTRA** con chiavette
Solid hardened slide **RIGHT HAND** with positioning key nuts



Cod.	7.95.0B3000
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Art. 950C

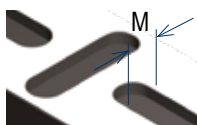
Slitta **SINISTRA** con chiavette
Solid hardened slide **LEFT HAND** with positioning key nuts



Cod.	7.95.0C3000
------	-------------

Art. 950D

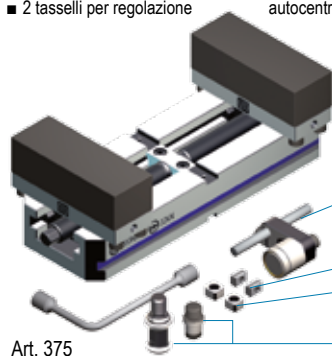
Ganascia lavorabile in acciaio
Machineable steel jaw



Cod.	7.95.0D3000
------	-------------

Dotazione standard:

- 1 chiave a pipa Art.375 ■ 1 coppia di inserti extra Art.650T ■ 1 perno calibrato per centraggio e orientamento Art.79 oppure 1 tirante zero point Art.11S
- 1 arresto laterale Art.370 ■ 2 tasselli di posizionamento Art.297
- 2 tasselli per regolazione autocentrante Art.650G



Art. 950

Art. 370 / EM

Art. 297

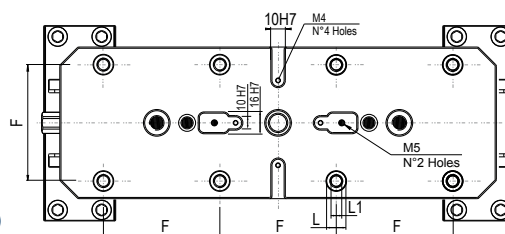
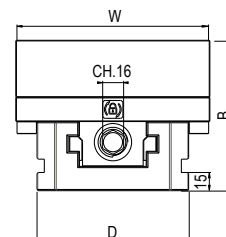
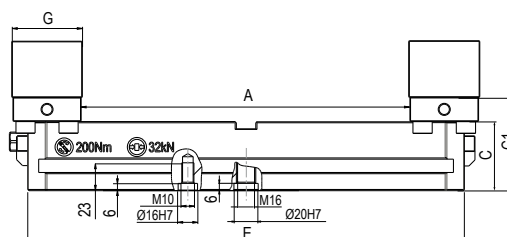
Art. 650G

Art.79 or Art.11S

(a scelta / to be choosen)

Standard equipment:

- 1 box wrench Art.375 ■ 1 extra pair of top jaw inserts Art.650T- G01
- 1 calibrated centering and orientation pin (Art.79) or 1 pull stud for zero point (Art.11A)
- 2 positioning key-nuts Art.297 ■ 2 self-centering key-nuts Art.650G ■ 1 workshop Art.370



Art. 950

Tipo / Type **3**

USARE STAFFE
USE SIDE CLAMPS

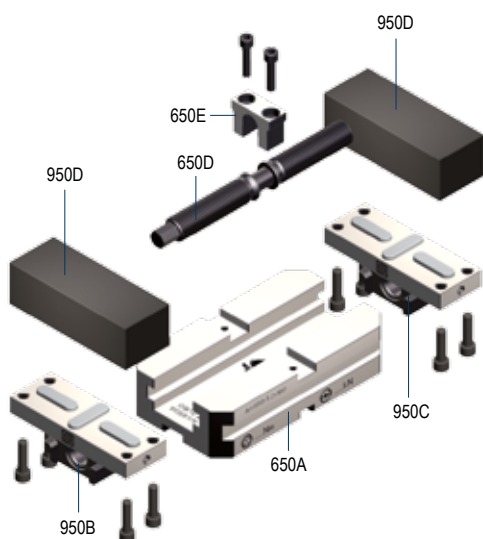
Art.298 Tipo / Type

1xM10 / 1xM12 / 1xM16

Art. 950

Tipo / Type 2

NEW!



Tipo / Type 2

2x120

2x160

2x200

2x240

Cod. 7.65.0A2120 7.65.0A2160 7.65.0A2200 7.65.0A2240

Art. 650A

Corpo base - Base body

Cod. 7.95.0B2000

Art. 950B *

Ganascia integrale destra
Solid jaw right hand

Cod. 7.95.0C2000

Art. 950C *

Ganascia integrale sinistra
Solid jaw left hand

Cod. 7.65.0D2120 7.65.0D2160 7.65.0D2200 7.65.0D2240

Art. 650D

Vite di bloccaggio - Main screw

Cod. 7.65.0E2000

Art. 650E

Forcella - Yoke

Cod. 7.95.0D2000

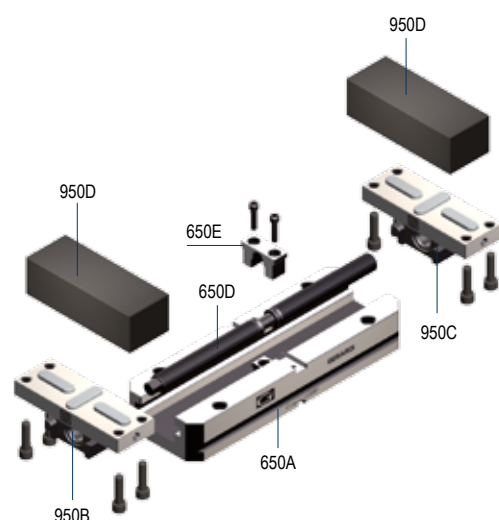
Art. 950D

Ganascia lavorabile in acciaio
Machineable steel jaw

Art. 950

Tipo / Type 3

NEW!



Tipo / Type 3

3x160

3x210

3x260

3x310

3x360

Cod. 7.65.0A3160 7.65.0A3210 7.65.0A3260 7.65.0A3310 7.65.0A3360

Art. 650A

Corpo base - Base body

Cod. 7.95.0B3000

Art. 950B *

Ganascia integrale destra
Solid jaw right hand

Cod. 7.95.0C3000

Art. 950C *

Ganascia integrale sinistra
Solid jaw left hand

Cod. 7.65.0D3160 7.65.0D3210 7.65.0D3260 7.65.0D3310 7.65.0D3360

Art. 650D

Vite di bloccaggio - Main screw

Cod. 7.65.0D3000

Art. 650E

Forcella - Yoke

Cod. 7.95.0D3000

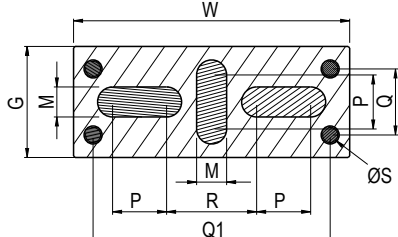
Art. 950D

Ganascia lavorabile in acciaio
Machineable steel jaw

ACCESSORI PER MORSE COMPACT GRIP Art.950

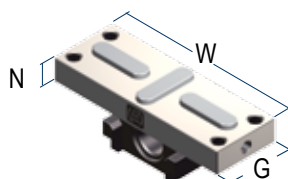
Art.950 COMPACT GRIP VISES ACCESSORIES

COMPACT GRIP
NEW!

Tipo (grandezza) / Type (size)	2	3
		
		
W	128	160
G	49	59
M	10 H7	14 H7
P	30	36
Q	23	36
Q1	110	142
R	40	50
S	Ø9	Ø11

Art. 950B

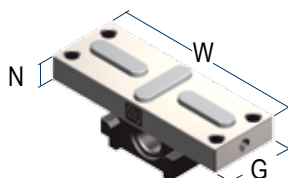
Slitta **DESTRA** con chiavette
Solid hardened slide **RIGHT HAND**
with positioning key nuts



N	15	20
Cod.	7.95.0B2000	7.95.0B3000

Art. 950C

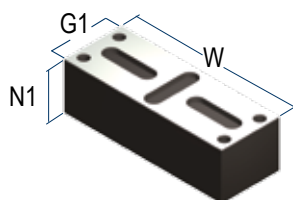
Slitta **SINISTRA** con chiavette
Solid hardened slide **LEFT HAND**
with positioning key nuts



N	15	20
Cod.	7.95.0C2000	7.95.0C3000

Art. 950D

Ganascia lavorabile in acciaio
Machineable steel jaw

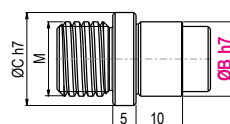


N1	30	47
Cod.	7.95.0D2000	7.95.0D3000

G1= G+2 mm

Art. 79

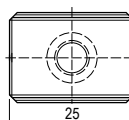
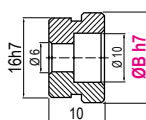
Perno calibrato per centraggio e orientamento
Calibrated centering and orientation pin



ØC h7	14	20
M	12	16
ØB	10 - 12 - 14 - 16 - 18 - 20	
Cod.	7.79.11200	7.79.21600

Art. 297

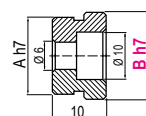
Coppia di tasselli di posizionamento
completi di vite M5 x 10
Pair of positioning key-nuts with
M5 x 10 clamping screw



B	10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 28 - 36
Cod.	2.29.71000

Art. 650G

Coppia di tasselli per regolazione autocentrante
Pair of key-nuts for self-centering

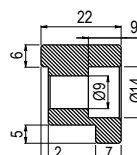
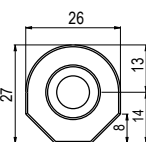


A	16
B	10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 28 - 36
Cod.	7.65.0G2000

Specificare sempre quota B - Specify always B dimension

Art. 298 / CGR

Staffa per Compact Grip
Compact Grip holding clamp



Cod.	2.29.81000/CGR
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RIALZI IN ALLUMINIO per MORSE COMPACT GRIP Art.650 - Art.950

ALUMINUM RISERS for COMPACT GRIP VISES Art.650 - Art.950

COMPACT GRIP
NEW!

Tipo Rialzo (grandezza) - Riser Type (size)

1

Art. 651H

Tipo / Type **1**

Rialzo semplice
Simple riser

NEW!


ØA	80				120			
B	80				80			
* C	50	75	100	50	75	100		
D	128				178			
E	-				150			
L	52				52			
M	52				52			
ØJ	110				150			
K	10				10			
K1	-				16			
kg	1,08	1,41	1,75	2,09	2,63	3,17		
Cod.	7.65.1H108 / 50	7.65.1H108 / 75	7.65.1H108 / 100	7.65.1H112 / 50	7.65.1H112 / 75	7.65.1H112 / 100		

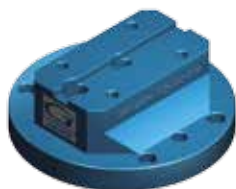
Tipo Rialzo (grandezza) - Riser Type (size)

2

Art. 651H

Tipo / Type **2**

Rialzo semplice
Simple riser

NEW!


A	120			160			200		
B	90			90			90		
* C	50	75	100	50	75	100	50	75	100
D	210			210			210		
E	-			150			150		
L	65			65			65		
M	90			90			90		
ØJ	183			183			185		
kg	3,07	3,71	4,32	3,09	3,90	4,73	3,38	4,45	5,52
Cod.	7.65.1H212/50	7.65.1H212/75	7.65.1H212/100	7.65.1H216/50	7.65.1H216/75	7.65.1H216/100	7.65.1H220/50	7.65.1H220/75	7.65.1H220/100

Tipo Rialzo (grandezza) - Riser Type (size)

3

Art. 651H

Tipo / Type **3**

Rialzo semplice
Simple riser

NEW!


A	160			210			260		
B	125			125			125		
* C	50	75	100	50	75	100	50	75	100
D	240			240			332		
E	150			150			150		
E1	-			-			200		
L	96			96			96		
L1	-			-			-		
M	96			96			96		
M1	-			-			-		
ØJ	185			185			185		
ØJ1	-			-			290		
kg	3,34	4,49	5,68	3,85	5,40	6,99	5,73	7,69	9,69
Cod.	7.65.1H316/50	7.65.1H316/75	7.65.1H316/100	7.65.1H321/50	7.65.1H316/75	7.65.1H316/100	7.65.1H326/50	7.65.1H326/75	7.65.1H326/100

RIALZI IN ALLUMINIO per MORSE COMPACT GRIP Art.650 - Art.950 **ALUMINUM RISERS for COMPACT GRIP VISES Art.650 - Art.950**

COMPACT GRIP
NEW!

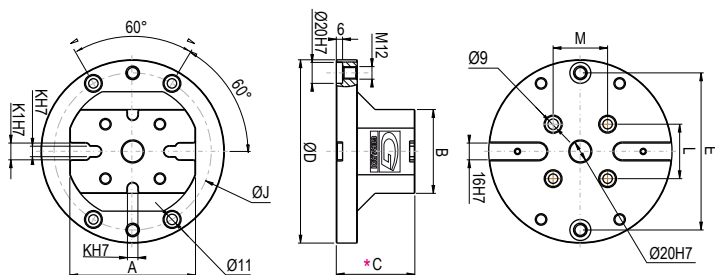
1			
ØA	160		
B	80		
C	50	75	100
D	178		
E	150		
L	52		
M	52		
ØJ	150		
K	10		
K1	16		
kg	2,40	3,15	3,90
Cod.	7.65.1H116 / 50	7.65.1H116 / 75	7.65.1H116 / 100

NEW!

Art. 651H

Tipo / Type **1**

Rialzo semplice
Simple riser



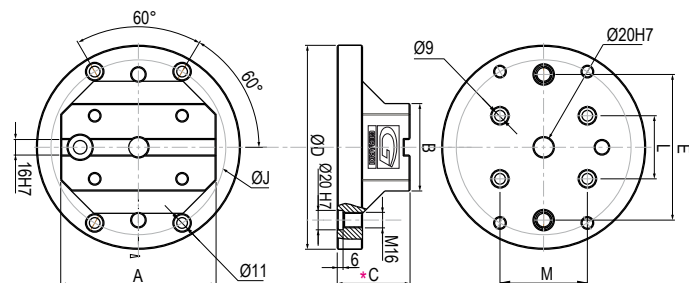
2			
A	240		
B	90		
C	50	75	100
D	249		
E	200		
L	65		
M	150		
ØJ	185		
kg	4,13	5,45	6,75
Cod.	7.65.1H224/50	7.65.1H224/75	7.65.1H224/100

NEW!

Art. 651H

Tipo / Type **2**

Rialzo semplice
Simple riser



3						
A	310		360			
B	125		125			
C	50	75	100	50	75	100
D	327		373			
E	150		200			
E1	200		250			
L	96		96			
L1	100		100			
M	96		96			
M1	200		250			
ØJ	185		185			
ØJ1	290		290			
kg	6,14	8,50	10,91	7,02	9,80	12,62
Cod.	7.65.1H331/50	7.65.1H331/75	7.65.1H331/100	7.65.1H336/50	7.65.1H336/75	7.65.1H336/100

NEW!

Art. 651H

Tipo / Type **3**

Rialzo semplice
Simple riser

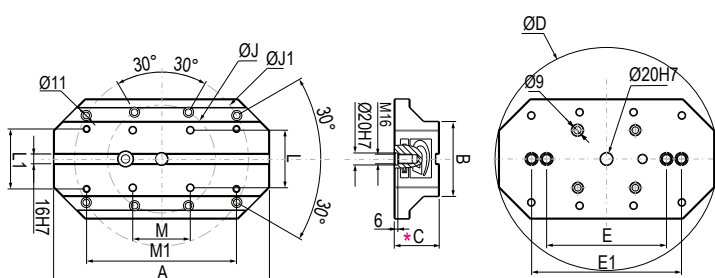
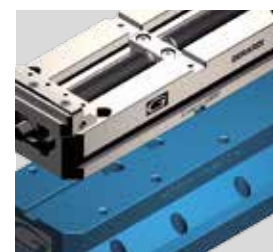
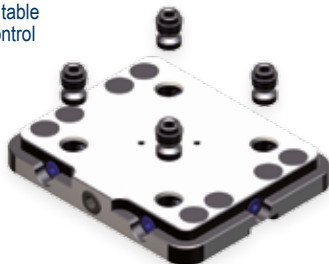


TAVOLA CAMBIO RAPIDO per MORSE COMPACT GRIP
QUICK CHANGE TABLE for COMPACT GRIP VISESCOMPACT GRIP
NEW!Per Morse Tipo - For Vises Type
INTERASSE - PITCH

Art. 660

Tavola cambio rapido ad
azionamento meccanico
Quick change table
mechanical control

NEW!

Dotazione standard - Standard equipment:
N°4 Tiranti Art.660B - # 4 Pull-studs Art.660B

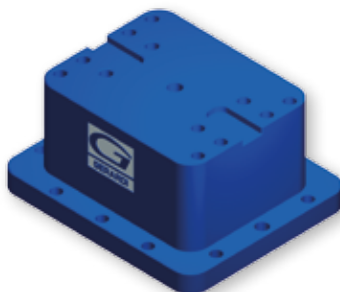
	1 - 2 52	3 96
A	100	150
B	50	50
B1	-	100
C	27	27
D	116	156
E	150	190
F	52	96
L	Ø12 h7	Ø16 h7
L1	M8	M10
kg	3	5,2
Cod.	9.66.05200	9.66.09600

RIALZO PER TAVOLA CAMBIO RAPIDO
RISER for QUICK CHANGE TABLEPer Morse Tipo - For Vises Type
INTERASSE - PITCH

Art. 661H

Rialzo in alluminio per
tavola cambio rapido
Simple aluminum riser
for quick change table

NEW!



	1 - 2 52	3 96
A	100	100
A1	-	150
A2	170	190
B	50	50
B1	-	100
C	100	100
D	156	176
D1	116	136
E	190	210
E1	150	170
F	96	96
F1	52	52
G	136	160
L2	Ø16 H7 / M10	Ø16 H7 / M10
L3	Ø12 H7 / M8	Ø12 H7 / M8
L4	Ø20 H7 / M16	Ø20 H7 / M16
kg	5	6,5
Cod.	9.66.1H100	9.66.1H200

SUPPORTO PIRAMIDALE per MORSE MULTITASKING & COMPACT GRIP
PYRAMIDAL SUPPORT for MULTITASKING & COMPACT GRIP VISESTipo (grandezza) / (type) size
INCLINAZIONE - ANGLE

Art. 643H

Supporto piramidale in
alluminio a tripla posizione
Aluminum pyramidal support
with triple positioning

NEW!



	3 45°	MORSE COMPATIBILI COMPATIBLE VISES
ØA	310	Multitasking Art. 640 - T.1
ØB	275	—
ØC	265	Compact Grip Art. 650 - T.2x120 Art. 650 - T.2x160 Art. 650 - T.2x200
D	130,8	
D1	22	
F	150 (±0,02)	
H	109	
H1	154	
H2	100	
kg	13,2	
Cod.	7.64.3H310/ 345	Art. 950 - T.2x120 Art. 950 - T.2x160 Art. 950 - T.2x200

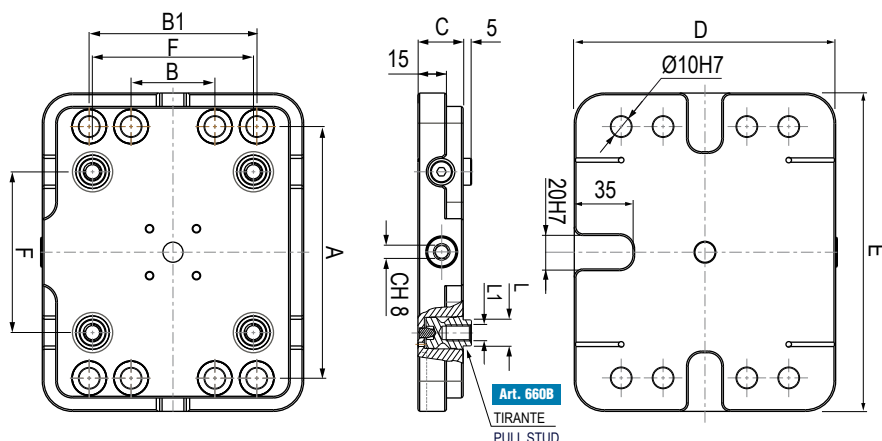
N.B: Richiedere scheda tecnica per maggiori informazioni - Technical data sheet on request

TAVOLA CAMBIO RAPIDO per MORSE COMPACT GRIP QUICK CHANGE TABLE for COMPACT GRIP VISES

COMPACT GRIP
NEW!

Art. 660

Tavola cambio rapido ad azionamento meccanico
Quick change table mechanical control



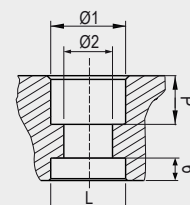
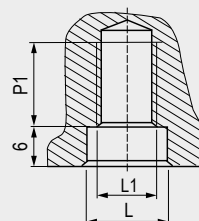
Art. 660B

Tiranti per tavola cambio rapido
Quick change table pull studs



Tipo - Type 1

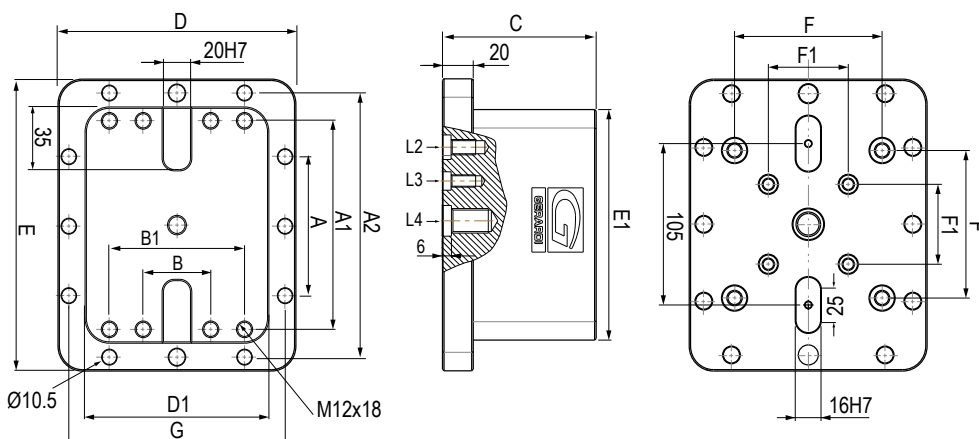
Tipo - Type 2



RIALZO PER TAVOLA CAMBIO RAPIDO RISER for QUICK CHANGE TABLE

Art. 661H

Rialzo in alluminio per tavola cambio rapido
Simple aluminum riser for quick change table

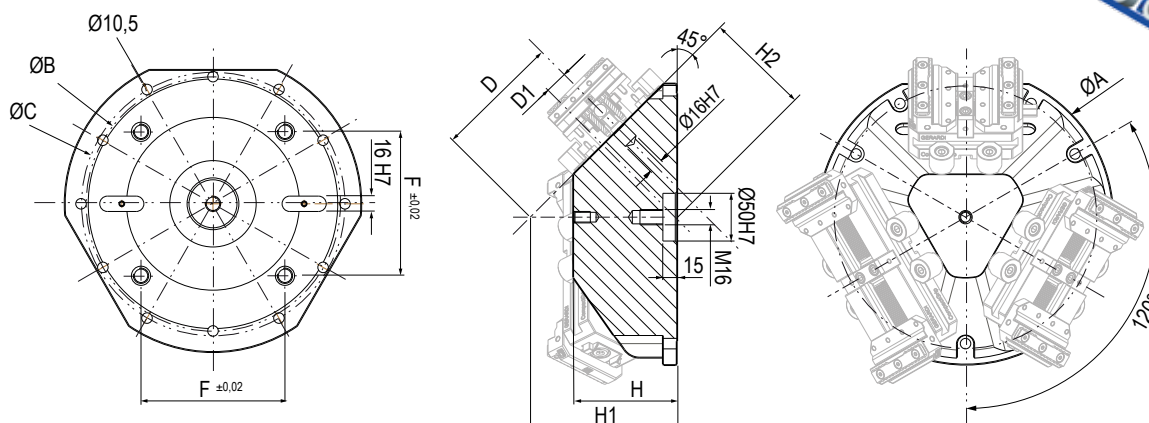


Type	1	2
L	Ø12 h7	Ø16 h7
L1	M8	M10
Ø1	13	15
Ø2	9	11
P	9	11
P1	12	18
Code	9.66.0B100	9.66.0B200

SUPPORTO PIRAMIDALE per MORSE COMPACT GRIP PYRAMIDAL SUPPORT for COMPACT GRIP VISES

Art. 643H

Supporto piramidale in alluminio a tripla posizionale
Aluminum pyramidal support with triple positioning



Tipo (grandezza) morsa / Vise (type) size

kN

1

25 kN

2

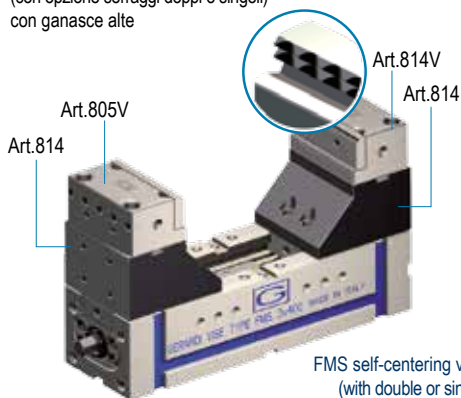
25 kN

3

30 kN

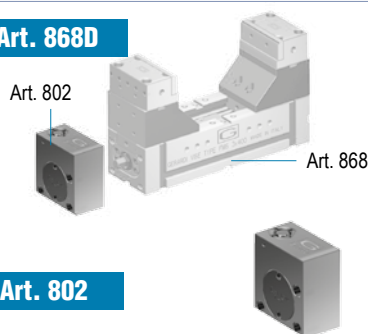
Art. 868

 Morsa **FMS** autocentrante
(con opzione serraggi doppi o singoli)
con ganasce alte

3 MORSE IN 1
VISES IN 1

 FMS self-centering vise
(with double or single
clamping option) with high jaws

	1 25 kN		2 25 kN				3 30 kN	
A	130	230	182	282	382	482	244	344
B	99,5			117			137	
C	70			90			100	
D	232		300	400	500	600	400	500
E	252		320	420	520	620	425	525
F	169,5			207			237	
G	75			95			125	
H	75			85			98	
L	56			64			84	
J3	76	76		101			132	
J4	55	55		63			82	
X	39,5			47			57	
W	74			94			124	
kg	-			-			-	

Cod. 5.86.81200 5.86.81300 5.86.82300 5.86.82400 5.86.82500 5.86.82600 5.86.83400 5.86.83500

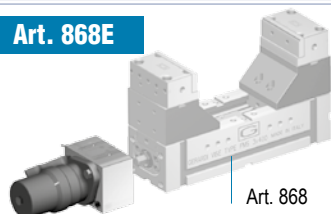
Art. 868D


(Art. 868 + 802) Morsa + moltiplicatore di coppia / Vise + torque multiplier

Cod. 5.86.8D120 5.86.8D130 5.86.8D230 5.86.8D240 5.86.8D250 5.86.8D260 5.86.8D340 5.86.8D350

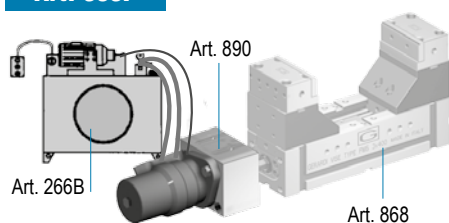
Moltiplicatore di coppia con rinvio angolare - Mechanical with torque multiplier with angular transmission

Cod. 5.80.21000 5.80.22000 5.80.23000

Art. 802
Art. 868E


(Art. 868 + 890) Morsa + motore idraulico / Vise + hydraulic motor

Cod. 5.86.8E120 5.86.8E130 5.86.8E230 5.86.8E240 5.86.8E250 5.86.8E260 5.86.8E340 5.86.8E350

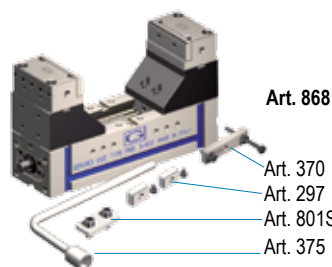
Art. 868F


(Art. 868 + 890 + 266B) Morsa + motore idraulico + centralina / Vise + hydraulic motor + power unit

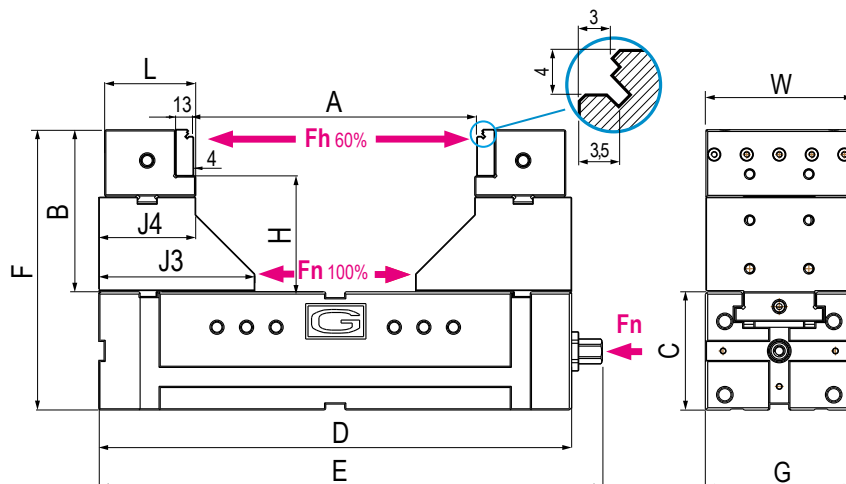
Cod. 5.86.8F120 5.86.8F130 5.86.8F230 5.86.8F240 5.86.8F250 5.86.8F260 5.86.8F340 5.86.8F350

Dotazione standard:

- 2 arresti laterali Art. 370
- 1 coppia di tasselli di posizionamento precisi Art. 297
- 1 chiave a pipa Art. 375
- 1 piastrina di collegamento Art. 801S


Standard equipment:

- 2 workstops Art. 370
- 1 pair of precision positioning key-nuts Art. 297
- 1 box wrench Art. 375
- 1 connecting plate Art. 801S



3 30 kN			4 30 kN				5 32 kN			6 32 kN		
444	544	644	316	416	516	616	396	496	596	596	696	796
	137			171				186			246	
	100			120				140			160	
600	700	800	500	600	700	800	600	700	800	800	900	1000
625	725	825	525	625	725	825	625	725	825	825	925	1025
	237			291				326			406	
	125			145				170			190	
	98			128				138			180	
	84			97				107			107	
	132			154				169			189	
	82			96				106			106	
	57			64				66			86	
	124			144				169			189	
-			-				-			-		

5.86.83600	5.86.83700	5.86.83800	5.86.84500	5.86.84600	5.86.84700	5.86.84800	5.86.85600	5.86.85700	5.86.85800	5.86.86800	5.86.86900	5.86.86100
------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------

Art. 868D

(Art. 868 + 802) Morsa + moltiplicatore di coppia / Vise + torque multiplier

5.86.8D360	5.86.8D370	5.86.8D380	5.86.8D450	5.86.8D460	5.86.8D470	5.86.8D480	5.86.8D560	5.86.8D570	5.86.8D580	5.86.8D680	5.86.8D690	5.86.8D610
------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------

Art. 802

Moltiplicatore di coppia con rinvio angolare - Mechanical with torque multiplier with angular transmission

5.80.23000	5.80.24000	5.80.25000	5.80.26000
------------	------------	------------	------------

Art. 868E

(Art. 868 + 890) Morsa + motore idraulico / Vise + hydraulic motor

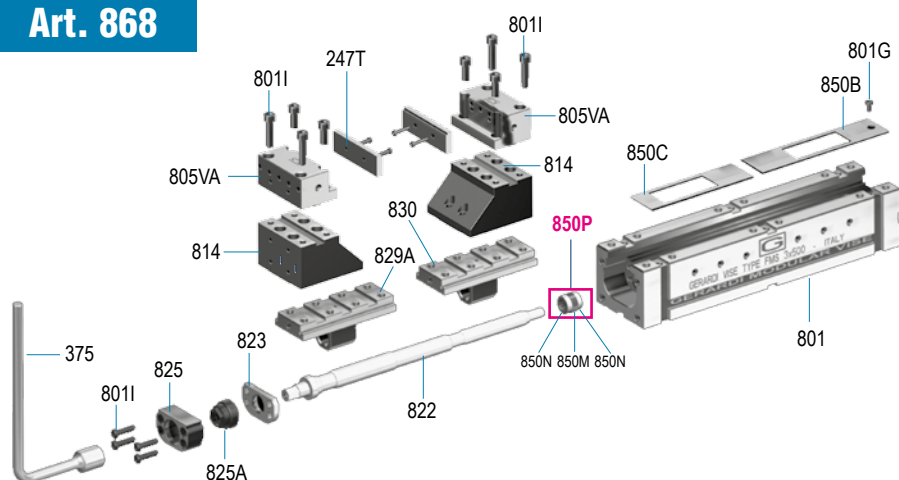
5.86.8E360	5.86.8E370	5.86.8E380	5.86.8E450	5.86.8E460	5.86.8E470	5.86.8E480	5.86.8E560	5.86.8E570	5.86.8E580	5.86.8E680	5.86.8E690	5.86.8E610
------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------

Art. 868F

(Art. 868 + 890 + 266B) Morsa + motore idraulico + centralina / Vise + hydraulic motor + power unit

5.86.8F360	5.86.8F370	5.86.8F380	5.86.8F450	5.86.8F460	5.86.8F470	5.86.8F480	5.86.8F560	5.86.8F570	5.86.8F580	5.86.8F680	5.86.8F690	5.86.8F610
------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------

Art. 868



Art.	Pag.
375	4.27
801	5.40
801G	5.54
801I	5.54
810J	5.51
822	5.46
823	5.62
825	5.62
825A	5.54
829A	5.44
830	5.44

Art.	Pag.
850B	5.54
850C	5.54
850M	5.54
850N	5.54
850P	5.54
814	5.50
805V	5.29
247T	5.29
-	-
-	-
-	-

Tipo (grandezza) morsa / Vise (type) size

kN

1

2

11 kN

Art. 670ID

Morsa autocentrante **idraulica**
con ganasce mobili lavorabili

Self-centering **idraulic** vise
with soft movable jaws

NEW!

A	-	6,4
B	-	25
C	-	80
D	-	106
E	-	49
G	-	10
H	-	90
L	-	20
W	-	74
kg	-	6,5

Cod.

-
| 7.67.0ID20 |

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

Art. 671A

Materiale non temprato
Not Hardened material

Ganascia mobile lavorabile
Soft movable jaw


Cod.

-
| 7.67.1A200 |

Art. 671B

Materiale non temprato
Not Hardened material

Ganascia mobile lavorabile ridotta
Soft narrow movable jaw


Cod.

-
| 7.67.1B200 |

Art. 671C

Materiale non temprato
Not Hardened material

Ganascia mobile lavorabile predisposta
per piastre **ganascie standard ridotte**
Soft movable jaw for **narrow width standard** jaw plates


Cod.

-
| 7.67.1C200 |

Art. 243

Piastra ganascia piana rigata temprata
Hardened grooved straight jaw plate


Cod.

-
| 1.65.27000 |

Art. 245

Piastra ganascia piana liscia temprata
Hardened smooth straight jaw plate


Cod.

-
| 4.24.52000 |

Art. 247G

Piastra piana con inserti GRIP
Straight plate with GRIP inserts


Cod.

-
| 4.24.7G200 |

Dotazione standard:

- 1 perno calibrato per centraggio Art.640P
- N°4 viti calibrate a colletto Art.83



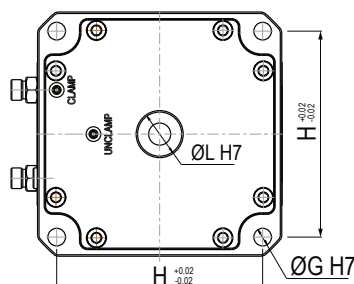
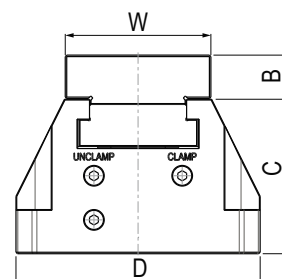
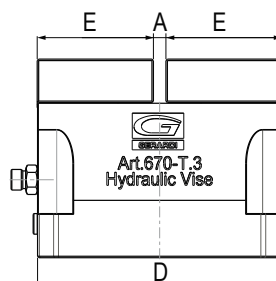
Art. 670

Art. 83

Art. 640P

Standard equipment:

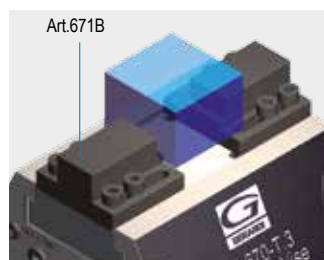
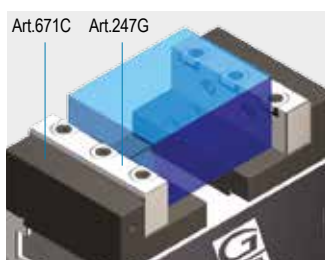
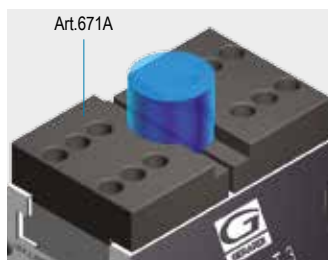
- 1 calibrated centering pin Art.640P
- N. 4 shoulder screw Art. 83


Art. 670ID

3 26 kN	4 46 kN	5
8,5	12	-
30	35	-
105	130	-
166	206	-
79	96	-
12	16	-
140	170	-
20	20	-
99	124	-
20	38	-
7.67.0ID30	7.67.0ID40	-
UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !		
7.67.1A300	7.67.1A400	-
7.67.1B300	7.67.1B400	-
7.67.1C300	7.67.1C400	-
1.65.37000	1.65.47000	-
4.24.53000	4.24.54000	-
4.24.7G300	4.24.7G400	-

Art. 670ID

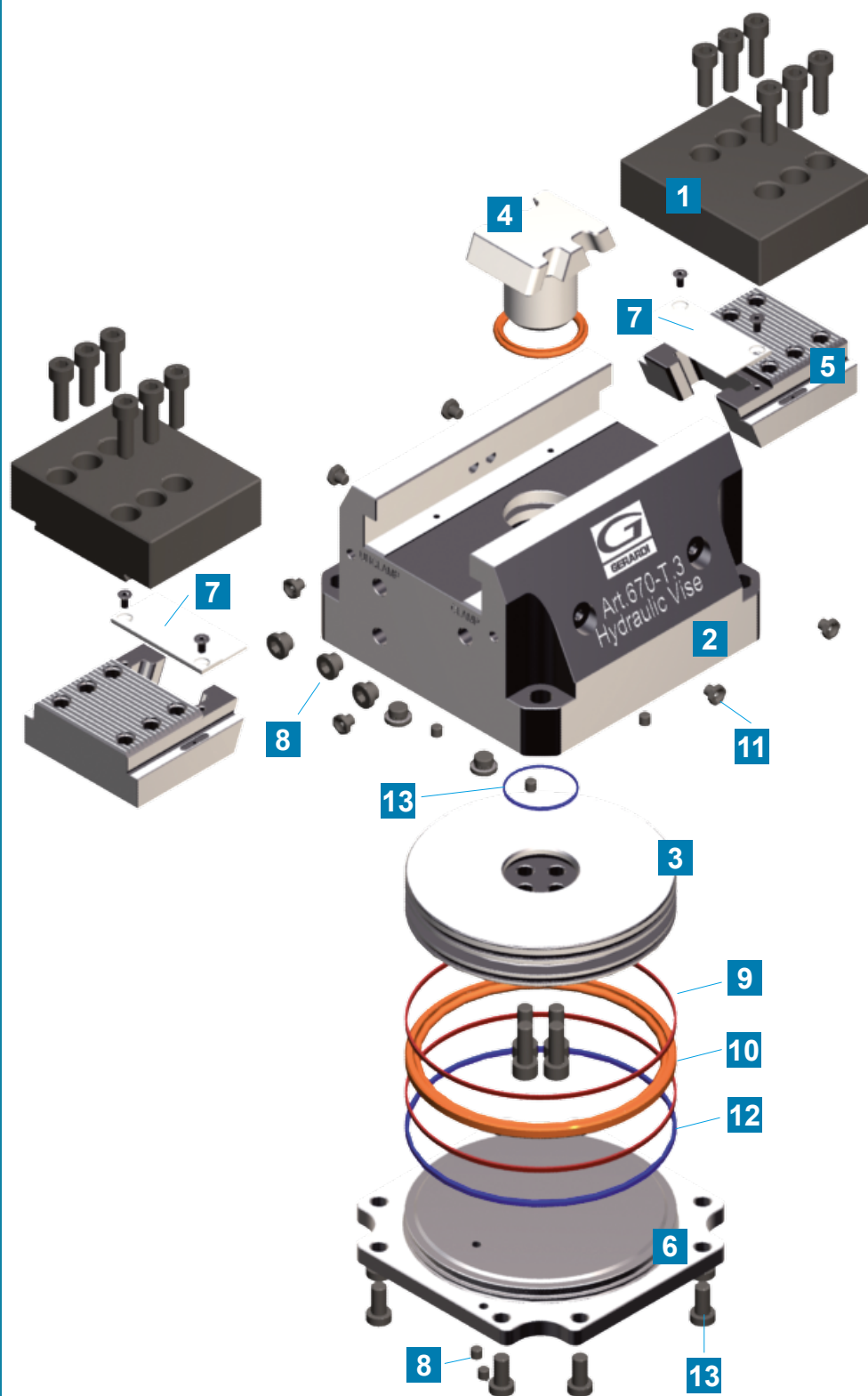
Esempi applicativi piastre ganasce:
Jaw plates application examples:



Art. 670ID

Tipo / Type **1**
NEW!

- 1** GANASCIA
JAW
- 2** CORPO BASE MORSA
VISE BASE BODY
- 3** PISTONE
PISTON
- 4** TIRANTE DI BLOCCAGGIO
CLAMPING PULL-STUD
- 5** SLITTA GUIDATA
GUIDED SLIDE



- 6** TAPPO DI CHIUSURA
CLOSING PLUG
- 7** CARTER DI COPERTURA
COVER PLATE
- 8** VITE DI TENUTA
SEALING SCREW
- 9** ANELLO GUIDA
SLIDE RING
- 10** GUARNIZIONE PISTONE
PISTON SEAL
- 11** INGRASSATORE
LUBRICATING NIPPLE
- 12** GUARNIZIONI OR
OR SEAL
- 13** VITI DI SERRAGGIO
CLAMPING SCREWS

GANASCE & PIASTRE GANASCE PER MORSE MULTITASKING Art.670 JAWS & JAW PLATES FOR MULTITASKING VISES Art.670

NEW!

Tipo (grandezza) / Type (size)		2	3	4	
Art. 671A					
Ganascia mobile lavorabile Soft movable jaw					
		W	74	99	124
		B	25	30	35
		E	49	79	96
		Cod.	7.67.1A200	7.67.1A300	7.67.1A400
Art. 671B					
Ganascia mobile lavorabile ridotta Soft narrow movable jaw					
		W	40	65	81
		A	10	10	15
		B	25	30	35
		C	15	28	38
		E	40	65	81
		Cod.	7.67.1B200	7.67.1B300	7.67.1B400
Art. 671C					
Ganascia mobile lavorabile predisposta per piastre ganasce standard ridotte Soft movable jaw for narrow standard jaw plates					
		W	74	94	124
		A	13,5	18	18
		B	38	48	58
		E	45	70	87
		F	30	51	62
		Cod.	7.67.1C200	7.67.1C300	7.67.1C400
Art. 243					
Piastra ganascia piana rigata temprata Hardened grooved straight jaw plate					
		W	74	94	124
		G	12	12	13
		Cod.	1.65.27000	1.65.37000	1.65.47000
Art. 245					
Piastra ganascia piana liscia temprata Hardened smooth straight jaw plate					
		W	74	94	124
		G	12	12	13
		Cod.	4.24.52000	4.24.53000	4.24.54000
Art. 247G					
Piastra piana con inserti GRIP Straight plate with GRIP inserts					
		W	74	94	124
		G	12	12	13
		Cod.	4.24.7G200	4.24.7G300	4.24.7G400
Art. 83					
Vite Calibrata a colletto Shoulder calibrated screw					
		A	16	18	24
		B	M8	M10	M12
		C	10	12	16
		D	15	15	18
		E	7	8	11
		X	30	40	45
		Cod.	8.83.10300	8.83.12400	8.83.16450
Art. 640P					
Perno di centraggio Straight pin					
		B	10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 28 - 36		
		Cod.	7.64.0P1000		

Specificare sempre quota B - Specify always B dimension

SISTEMA A CODA DI RONDINE DOVE TAIL FIXTURES

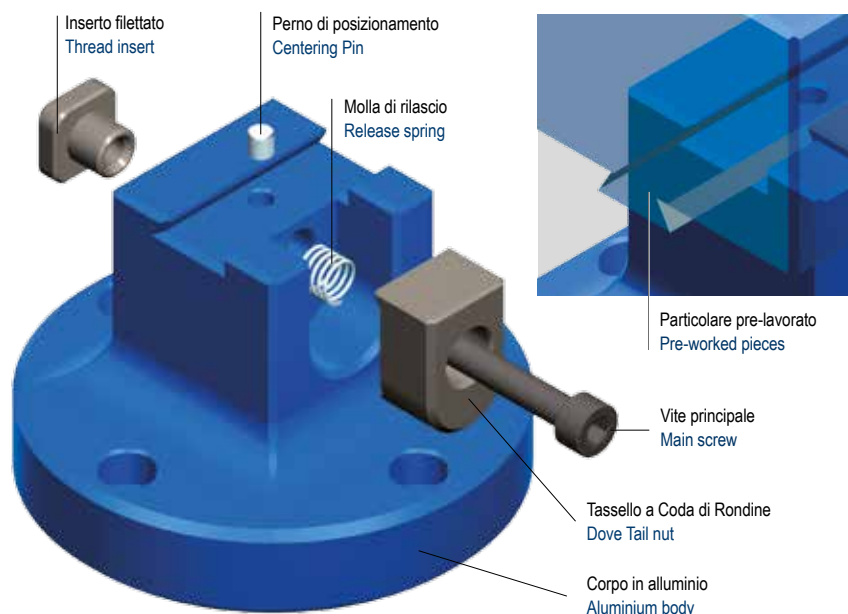
Art.690

Il sistema a Coda di Rondine è progettato specificamente per le lavorazioni su centri a 5 assi. Grazie alla sua versatilità e conformazione offre un'ottimizzazione dei tempi di attrezzaggio e di lavorazione dei particolari.

Il sistema Coda di Rondine è compatibile con l'ampia gamma di attrezzature Gerardi ed è possibile applicarlo sui più conosciuti centri di lavoro al mondo.

The Dove Tail System is designed specifically for machining on 5 Axis machine centers.

Thanks to its versatility and shape it guarantees the best set up and machining times. The Dove Tail System is obviously compatible with the widest range of Gerardi fixtures and it is possible to use it on the worldwide most popular Machine Centers.



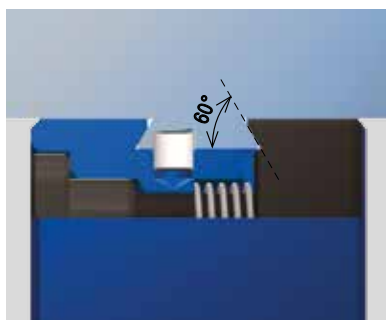
NEW!

COME SERRARE UN PARTICOLARE CON IL SISTEMA A CODA DI RONDINE HOW TO CLAMP WORKPIECES WITH DOVE TAIL FIXTURE



1

PREDISPOSIZIONE CODA DI RONDINE DOVE TAIL SET-UP

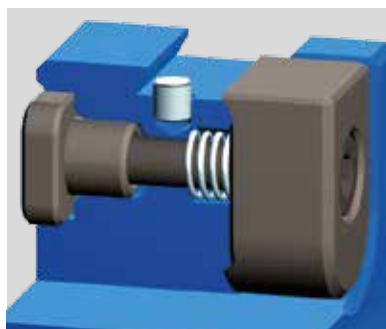


Ogni particolare può essere serrato tramite il sistema Coda di Rondine pre-lavorando la faccia inferiore mediante l'apposita fresa, creando una sagoma dell'altezza di 3mm e un angolo di 60°.

Each workpiece can be clamped on the Dove Tail system machining firstly the lower face through the proper milling cutter in order to create a 3mm height shape with a 60° angle.

2

PERNO DI POSIZIONAMENTO CENTERING PIN

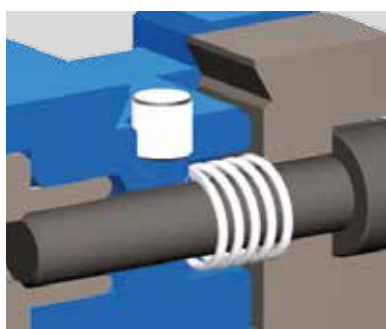


Il perno di posizionamento del sistema Coda di Rondine ha la funzione di assicurare sempre un rapido e perfetto centraggio del particolare da lavorare garantendo la massima ripetibilità.

The positioning pin of the Dove Tail System is for ensuring always a quickest and perfect workpiece centering which will then guarantee the max repeatability.

3

SERRAGGIO & RILASCIO GRADUALE CLAMPING & GRADUAL RELEASE



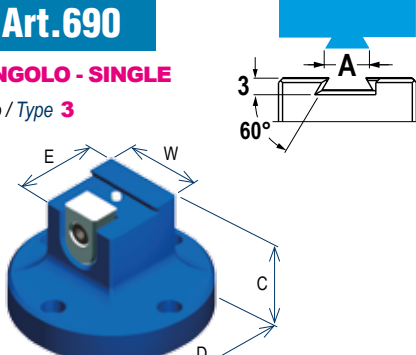
Il particolare da lavorare viene serrato mediante il tassello a Coda di Rondine, che sfruttando l'effetto leva generato dalla vite principale assicura un'efficace chiusura. La molla all'interno permette un rilascio graduale del tassello di bloccaggio.

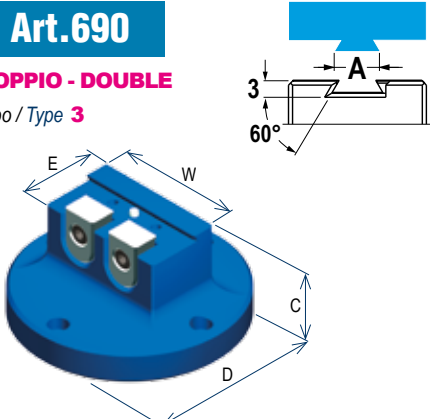
The workpiece is clamped through the Dove Tail System which exploiting the leverage created by the main screw ensures a perfect clamping. The internal spring allows a gradual release of the clamping nut.

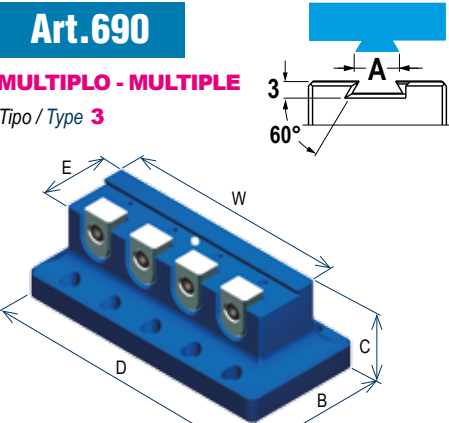
SISTEMA A CODA DI RONDINE in ALLUMINIO

ALUMINIUM DOVE TAIL FIXTURES

NEW!

Tipo (grandezza) - (type) size		1	2	3	4	5	6	
Grandezza coda di rondine - Dove tail dimension (inch)		A"	0,281"	0,375"	0,5"	0,75"	1,5"	2,25"
Grandezza coda di rondine - Dove tail dimension		A	7,14	9,53	12,7	19,5	38,1	57,15
Art.690 SINGOLO - SINGLE Tipo / Type 3 		C	50	50	50	50	70	70
		D	Ø56	Ø56	Ø76	Ø86	Ø116	88x132
		E	20	22	34	40	70	88
		W	20	22	34	40	50	48
		Forma Shape						
		kg	0,3	0,4	0,9	1,1	3,2	3,6
		Cod.	12.690.101	12.690.201	12.690.301	12.690.401	12.690.501	12.690.601

Tipo (grandezza) - (type) size		1	2	3	4	5	6	
Grandezza coda di rondine - Dove tail dimension (inch)		A"	0,281"	0,375"	0,5"	0,75"	1,5"	2,25"
Grandezza coda di rondine - Dove tail dimension		A	7,14	9,53	12,7	19,5	38,1	57,15
Art.690 DOPIO - DOUBLE Tipo / Type 3 		C	-	-	50	50	70	70
		D	-	-	Ø98	Ø104	110	110x128
		E	-	-	34	40	70	88
		W	-	-	60	60	90	90
		Forma Shape	-	-				
kg	-	-	1,4	1,6	4,4	5,3		
Cod.	-	-	12.690.302	12.690.402	12.690.502	12.690.602		

Tipo (grandezza) - (type) size		1	2	3	4	5	6	
Grandezza coda di rondine - Dove tail dimension (inch)		A"	0,281"	0,375"	0,5"	0,75"	1,5"	2,25"
Grandezza coda di rondine - Dove tail dimension		A	7,14	9,53	12,7	19,5	38,1	57,15
Art.690 MULTIPLO - MULTIPLE Tipo / Type 3 		B	-	-	64	70	110	128
		C	-	-	50	50	70	70
		D	-	-	140	140	190	190
		E	-	-	34	40	70	88
		W	-	-	120	120	170	170
Forma Shape		-	-					
kg		-	-	2,1	2,4	7,9	9,6	
Cod.		-	-	12.690.304	12.690.404	12.690.504	12.690.604	

DIAGRAMMI CON FORZE DI SERRAGGIO Art.640 DIAGRAMS WITH CLAMPING FORCE Art.640

GRUPPI DI SERRAGGIO MECCANICI

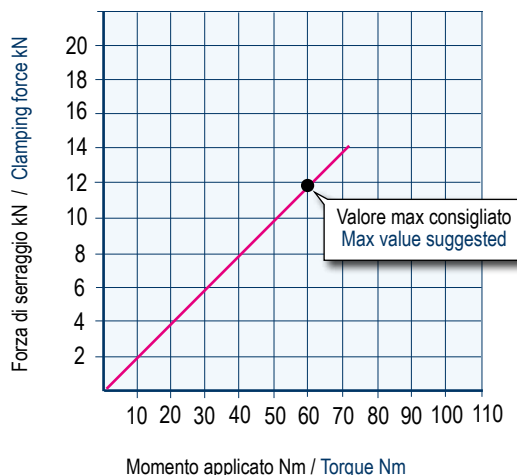
I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con le morse di varia grandezza (da 1 a 3), in funzione della forza applicata

MECHANICAL CLAMPING DEVICES

The following diagrams give the clamping force that can be obtained with each vise type (size 1 to 3) as a function of wrenching force

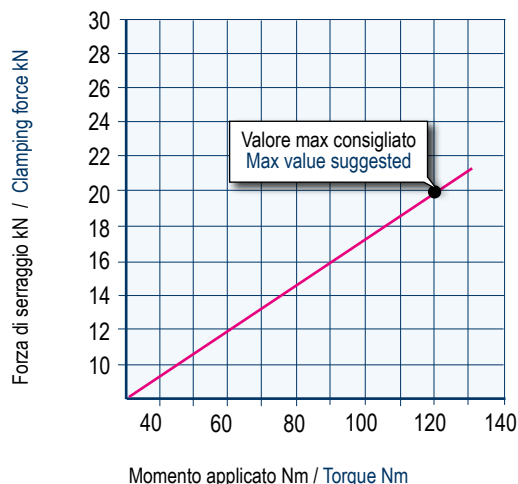
MORSE MULTITASKING TIPO 1 MULTITASKING VISES TYPE 1

Vite TPF18 - Passo 2mm
Screw TPF18 - Pitch 2mm



MORSE MULTITASKING TIPO 2 MULTITASKING VISES TYPE 2

Vite TPF24 - Passo 2mm
Screw TPF24 - Pitch 2mm



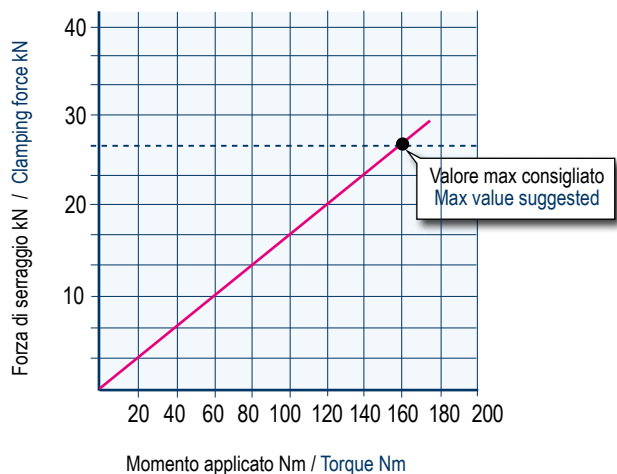
Art. 640

Tipo / Type 1 e 2



MORSE MULTITASKING TIPO 3 MULTITASKING VISES TYPE 3

Vite TPF24 - Passo 2mm
Screw TPF24 - Pitch 2mm



Art. 640

Tipo / Type 3

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.

DIAGRAMMI CON FORZE DI SERRAGGIO Art.650 - Art.950 DIAGRAMS WITH CLAMPING FORCE Art.650 - Art.950

COMPACT GRIP
NEW!

GRUPPI DI SERRAGGIO MECCANICI

I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con le morse di varia grandezza (da 1 a 3), in funzione della forza applicata

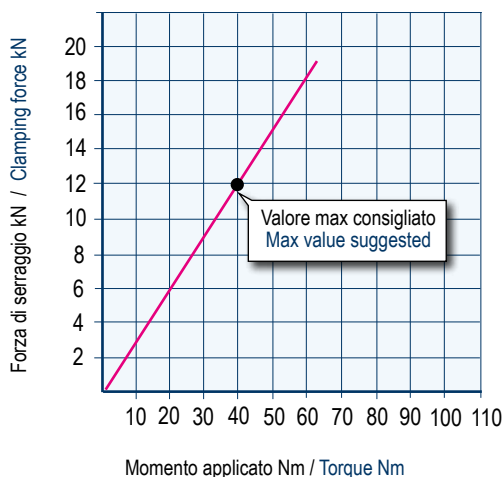
MECHANICAL CLAMPING DEVICES

The following diagrams give the clamping force that can be obtained with each vise type (size 1 to 3) as a function of wrenching force

MORSE COMPACT GRIP TIPO 1 COMPACT GRIP VISES TYPE 1

Vite TPF14 - Passo 2mm
Screw TPF14 - Pitch 2mm

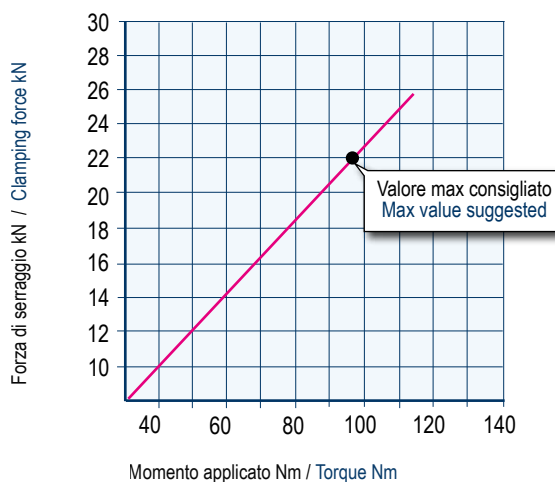
NEW!



MORSE COMPACT GRIP TIPO 2 COMPACT GRIP VISES TYPE 2

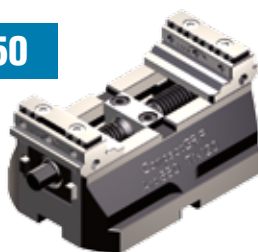
Vite TPF18 - Passo 2mm
Screw TPF18 - Pitch 2mm

NEW!

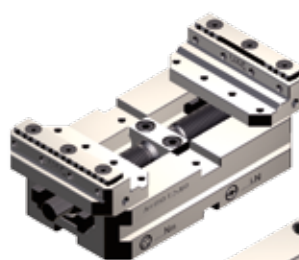


Art. 650

Tipo / Type 1



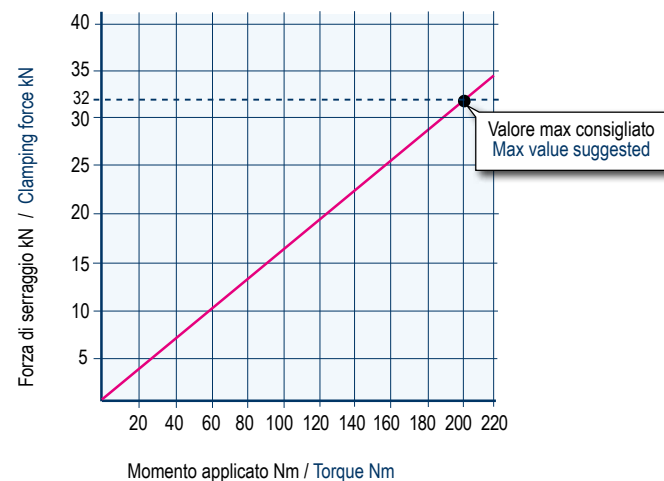
Tipo / Type 2



MORSE COMPACT GRIP TIPO 3 COMPACT GRIP VISES TYPE 3

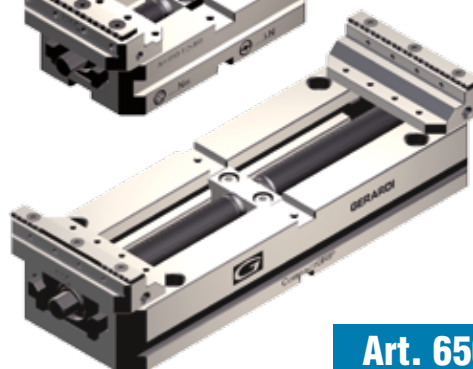
Vite TPF24 - Passo 2mm
Screw TPF24 - Pitch 2mm

NEW!



Art. 650

Tipo / Type 3



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.

DIAGRAMMI CON FORZE DI SERRAGGIO Art.670 DIAGRAMS WITH CLAMPING FORCE Art.670

SERRAGGIO IDRAULICO

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

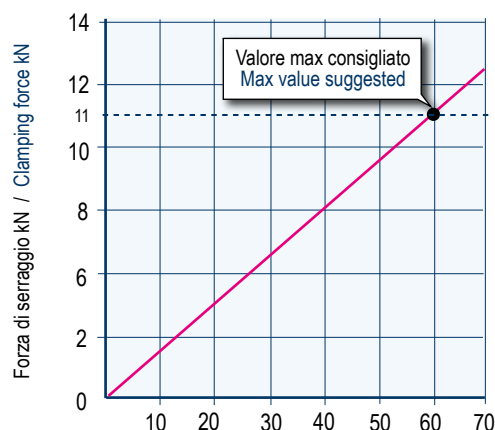
HYDRAULIC CLAMPING

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

MORSE AUTOCENTRANTE IDRAULICA TIPO 2 HYDRAULIC SELF/CENTERING VISE TYPE 2

Cilindro idraulico Ø85mm - Superficie efficace 510mm²
Hydraulic cylinder Ø85mm - Effective surface 510mm²

NEW!

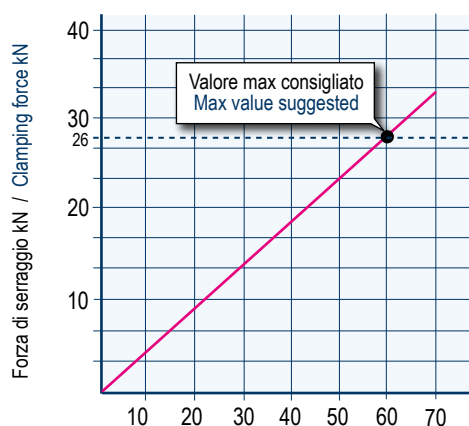


Pressione uscita olio - bar / Oil outlet pressure - bar
(1 bar = 14,5 psi)

MORSE AUTOCENTRANTE IDRAULICA TIPO 3 HYDRAULIC SELF/CENTERING VISE TYPE 3

Cilindro idraulico Ø135mm - Superficie efficace 132,3mm²
Hydraulic cylinder Ø135mm - Effective surface 132,3mm²

NEW!



Pressione uscita olio - bar / Oil outlet pressure - bar
(1 bar = 14,5 psi)

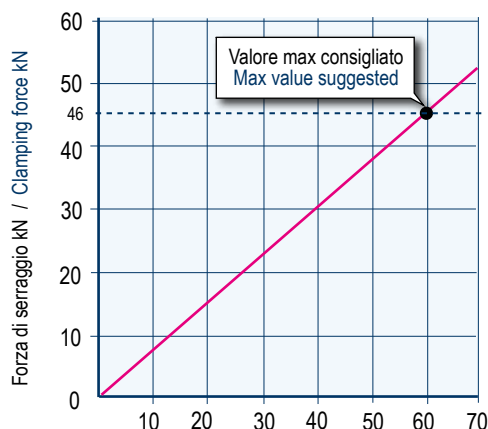


Art. 670ID

MORSE AUTOCENTRANTE IDRAULICA TIPO 4 HYDRAULIC SELF/CENTERING VISE TYPE 4

Cilindro idraulico Ø170mm - Superficie efficace 209,5mm²
Hydraulic cylinder Ø170mm - Effective surface 209,5mm²

NEW!



Pressione uscita olio - bar / Oil outlet pressure - bar
(1 bar = 14,5 psi)

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.