

*For 5th axis
machining centres!*

MULTITASKING

Morse / Vises

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VALIGETTA DI CAMPIONATURA COMPACT GRIP
SAMPLE KIT CASE COMPACT GRIP



Valigetta di campionatura morsa Art.650 - Art.660
Sample kit case Art.650 - Art.660

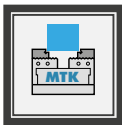
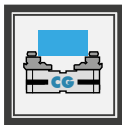
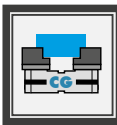
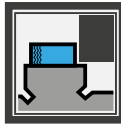
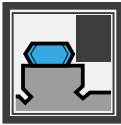
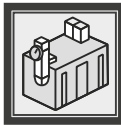
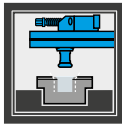
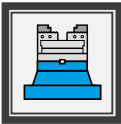
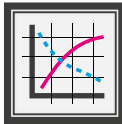
Cod. 0.98.60000

All'Interno - Inside:

Art.11A	Art.650G G11	Art.297
Art.650X	Art.650G G02	Art.370/EM
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SIMBOLOGIA DATI TECNICI
TECHNICAL DATA ICONS

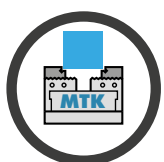
SERIE SERIES						
		Morse Multitasking Multitasking vises	Morse Compact Grip Compact Grip vises	Morse Compact Grip Art.950 Art.950 Compact Grip vises	Morse Grip Matic Grip Matic vises	Sistema a coda di rondine Dove Tail fixtures
INSERTI GRIP INSERT GRIP						
			Liscio + Ruvido Smooth + Rough	Coda di Rondine Dove Tail	GRIP GRIP	Frontali Frontal
POSSIBILITÀ POSSIBILITY						
				Montaggio con centralina Mounting with power unit	Lavorazioni a 5 assi 5 axis machining	Predisposizione Zero Point Zero Point Ready
PAGINE PAGES						
	Rialzi Risers	Sistema Pneumatico Pneumatic system	Sistema Idraulico Hydraulic system	Accessori & Ricambi Accessories & Spare Parts	Istruzioni corretto utilizzo Instruction for a proper use	Diagrammi forze di serraggio Clamping force diagrams

Multitasking & CompactGrip vises

MULTITASKING

Morse autocentranti per applicazioni avanzate su centri a 5 assi

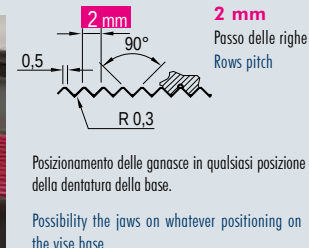
Vises for advanced applications on 5 axis machining centres



Multitasking

Le Tonde
The Rounded

Art. 640



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

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



Precisione / Accuracy
±0,02mm



Durezza / Hardened
HRC 58±2

Versatilità Ampia Gamma Di Inserti Versatility Ampia Gamma Di Inserti

Inserti riportati utilizzabili da entrambi i lati. 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).

Inserts to be used on both sides. 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 to the material to be clamped

CARATTERISTICHE & VANTAGGI

- ✓ USURA INESISTENTE
- ✓ RAPIDITA' DEI SERRAGGI
- ✓ MODULARITA' & VERSATILITA'
- ✓ PRECISIONI ± 0,02 mm
- ✓ RIGIDITA' & SICUREZZA
- ✓ DESIGN COMPATTO E MANEGGEVOLEZZA
- ✓ AUTOCENTRANTI
- ✓ PREDISPOSIZIONE PER ZERO POINT
- ✓ RIALZI COMPATIBILI

TECHNICAL FEATURES & ADVANTAGES

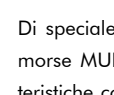
- ✓ NO WEAR
- ✓ QUICK CLAMPING
- ✓ MODULARITY & VERSATILITY
- ✓ HIGHEST ACCURACIES ± 0,02 mm
- ✓ RIGIDITY & SAFETY
- ✓ SELF-CENTERING
- ✓ ZERO POINT READY
- ✓ COMPATIBLE RISERS

Ganasce Reversibili MONOBLOCCO

SOLID GUIDED Reversible Jaws

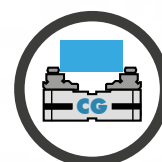
Versatilità grazie alle ganasce MONOBLOCCO reversibili e alle 4 opzioni di posizionamento della base (90°) ed ai fori frontali passanti.

Versatility also thanks to the SOLID GUIDED reversible jaws and to the 4 base positions option (90°) and to the front through holes.



Di speciale interesse per gli utilizzatori di centri di lavoro a 5 assi, le morse MULTITASKING / COMPACT GRIP presentano le stesse caratteristiche costruttive illustrate per le morse della serie FMS e MULTIFLEX (accuratamente rettificate in acciaio ad alta resistenza cementato trattato termicamente). Nate espressamente per i centri a 5 assi, questa gamma di morse permette di intervenire sulle 5 facce del particolare in lavorazione con riferimenti precisi in spazi contenuti garantendo usure inesistenti e grande rigidità. Massima compatibilità con i sistemi di cambio pallet già esistenti sul mercato

Of special interest to 5 axis machining centres users MULTITASKING, COMPACTGRIP & GRIPMATIC vises present the same building characteristics of FMS and MULTIFLEX vises, (Heat treatment and ground steel construction throughout). Designed for 5 axis machines, this 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. Max compatibility with the most popular pallet change systems.



CompactGrip

Le più Compatte
The most Compact

Art. 650

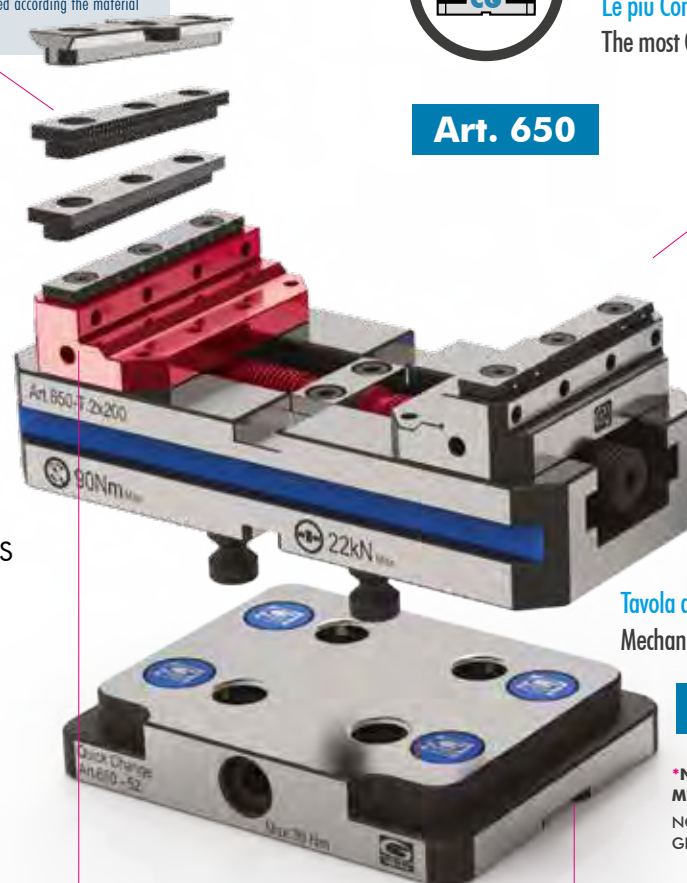


Tavola a cambio rapido meccanico
Mechanical quick change table

Art. 660

*NON DISPONIBILE PER IL
MERCATO TEDESCO E AUSTRIACO
NOT AVAILABLE FOR
GERMAN & AUSTRIAN MARKET

Compatibilità con 4° asse Compatibility with 4th axis

La nuova Tavolaletta a Cambio Rapido Art.660 (disponibile anche tonda Art.661) permette la rapida sostituzione di morse o attrezzature su tutte le più diffuse tavole girevoli, la versione lavorabile può essere personalizzata direttamente dal cliente in base alla sua tavola macchina.

The new Quick Change Sub Plate Art.660 (available also as round Art.661) allows the quick of vises or fixtures replacing on the most famous rotary table. The machineable version can be tailor made by the customer himself according to his machine table.



SCAN IT TO WATCH THE
VIDEO PRESENTATION



Autocentranti e Compatte Selfcentering & Compact

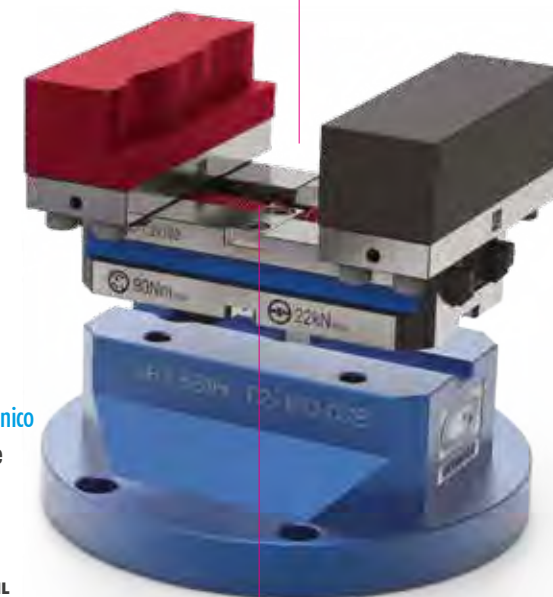


Autocentranti regolabili Self-centering adjustable

Veloce sistema di regolazione autocentrante dall'alto tramite tasselli di azzeramento forniti in dotazione
Easy self-centering adjustment from the top by key-nuts supplied as standard equipment.

Con ganasce dolci lavorabili
With soft machineable jaws

Art. 950



Rialzo semplice
Simple riser

Art. 651H

Maggior forza di serraggio Highest clamping power

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 slitta e ganasce.

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.

Staffe di ancoraggio / Vise holding clamps NEW 2021

CompactGrip

Coppia staffe di fissaggio Art.296, complete di vite e dado a "T"

Pair of vise holding clamps Art.296 complete of screw and "T" nut



Esempio d'ordine per morsa tipo 3 su macchina con cave a T da 18mm: Art.296 T.3 X=18mm

Oppure con codice: 2.29.6100 X=18mm

Order example for Type 3 vise on machine with 18mm T-slots: Art.296 T.3 X=18mm

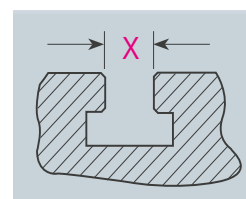
Also with code: 2.29.6100 X=18mm



Staffaggio Consigliato Suggested fixing

Consigliate 2 coppie di staffe Art.296 per ogni morsa

Suggested 2 pairs of holding clamps Art.296 for each vise

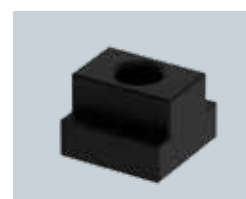


Cava a T

T Slot

Specificare sempre la cava della vostra macchina

Always specify the machine T-slot dimension

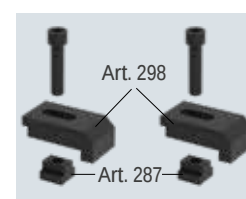


Art.287 (Pag.4.34)

Dadi a T - T Nuts

Per fissaggio morsa alle cave a T della macchina

For vise clamping on the machine T-slots



Art.296

(Art.298 + Art.287)

Consigliate 2 coppie di staffe Art.296 per ogni morsa

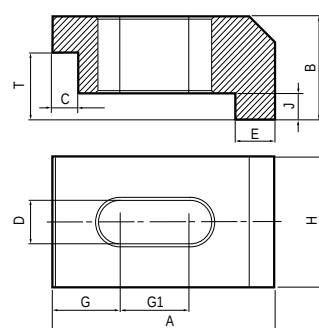
Suggested 2 pairs of holding clamps Art.296 for each vise

Art.298/CGR

Per lo staffaggio della morsa in spazi ristretti possibilità di usare staffe Art. 298 / CGR vedi pag. 7.29
For clamping vise in narrow space it's possible to use the holding clamps Art 298 / CGR see pages 7.29



Tipo (grandezza) morsa Vise type (size)		1 - 2 - 3									
Art. 296 Coppia di staffe Holding clamps pair	Cava a T- slot X	12*	14	16	16	18	20	18*	20	22	
	T-nuts Ref. N°	12	13	14	20	21	22	32	33	34	
	Filetto vite Screw thread	M10			M12 *			M16			
	A	50			50			50			
	B	24			24			24			
	C	6			6			6			
	Ø D	11			13			17			
	E	10			10			10			
	G	16			17,5			19			
	G1	15			13			9			
	H	34			34			34			
	J	4			4			4			
	T ± 0,1	15			15			15			
	Cod.	2.29.61000 / M10			2.29.61000 / M12			2.29.61000 / M16			
	€	39			39			39			



* Scelta consigliata - Suggested choice

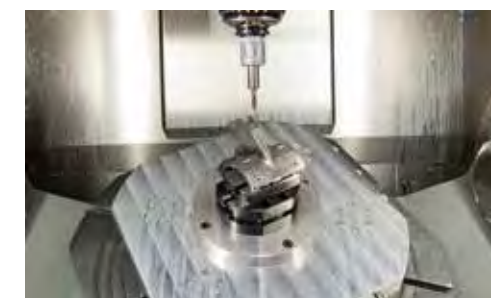
* Scelta NON consigliata - NO Suggested choice

Soluzioni personalizzate / Customized solutions

4th & 5th Axis

Soluzioni personalizzate a tutti i vostri problemi di serraggio

Customized solutions for all your clamping problems



Morsa Multitasking su centro a 5 assi

Multitasking vise on 5th axis machining center

Applicazione aeronautica, morsa Art.640 tipo 2 montata su macchina a 5 assi

Typical Multitasking vise Art.640 type 2 application on a 5 axis machine for aerospace workpiece



Morsa CompactGrip su centro a 5 assi

CompactGrip vise on 5th axis machining center

Lavorazioni di fresatura effettuate su di un centro di lavoro a cinque assi con morsa CompactGrip Art.650

Milling machining operations on a five axis machining center with CompactGrip vises Art.650



Morsa CompactGrip su rialzo semplice

Compact Grip vise on simple riser

Morsa CompactGrip montata su Kitamura Mytrunnion 4G per la lavorazione di uno stampo nel settore plastica.

Compact Grip vise on Kitamura Mytrunnion-4G for machining a die mould used in the plastic industry



Morse CompactGrip su piastra Zero Point

CompactGrip vises on Zero Point plate

Piastra base con 6 Zero Point singoli per morsa CompactGrip Art.650 T2 per lavorazioni di piccoli particolari

Zero Point plate with 6 single Zero Point units for CompactGrip vises Art.650 T2 for small workpieces machining.



Un sistema completamente automatico

Fully automatic system

Morsa automatica GripMatic Art.670PN montata tramite robot su tavola Zero Point.

GripMatic automatic vises Art.670PN mounted by robot on Zero Point Plate

Tipo (grandezza) morsa / Vise type (size)		1 16 kN	2 20 kN
Art. 640	<i>Tipo / Type 1 e 2</i>		
Morsa autocentrante o eccentrica.		A 65	95
Azionamento manuale.		A1 20	40
Serraggio meccanico		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
Self-centering or eccentric vise.			
Manual operation			
Mechanical clamping			

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

Art. 641H

Tipo / Type 1



Rialzo Semplice

Simple Riser

Kit di fissaggio e allineamento morsa incluso - Vise fixing and allignement kit included

B	50	75	100
Cod.	7.64.1H100AL /50	7.64.1H100AL /75	7.64.1H100AL /100

Art. 641H

Tipo / Type 2



Rialzo Semplice

Simple Riser

Kit di fissaggio e allineamento morsa incluso - Vise fixing and allignement kit included

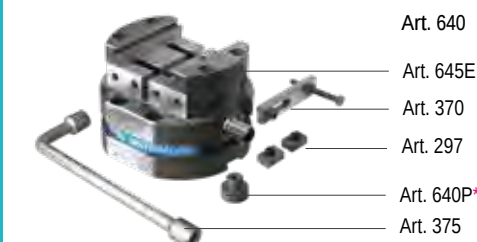
B	50	75	100
Cod.	7.64.1H200AL /50	7.64.1H200AL /75	7.64.1H200AL /100

Art. 645B		Cod.	6.64.5B100	6.64.5B200
Ganascia dolce Soft jaw				
Art. 645C		Cod.	6.64.5C100	6.64.5C200
Ganascia liscia Smooth jaw				
Art. 645D		Cod.	6.64.5D100	6.64.5D200
Ganascia zigrinata Serrated jaw				
Art. 645E		Cod.	6.64.5E100	6.64.5E200
Ganascia a gradino Step jaw		In Dotazione - Standard Equipment		
Art. 645F		Cod.	6.64.5F100	6.64.5F200
Ganascia prismatica Prismatic jaw				
Art. 645T		Cod.	6.64.5T100	6.64.5T200
Ganascia GRIP GRIP jaw				

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 hexagonal 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**

10 H7

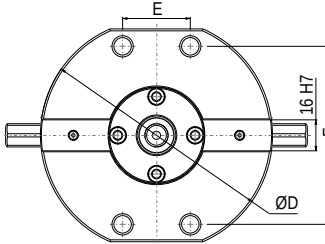
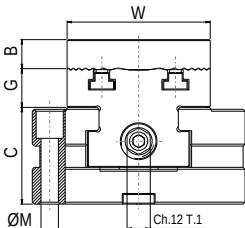
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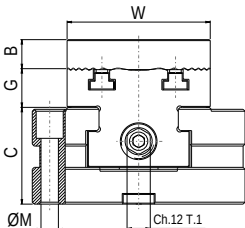
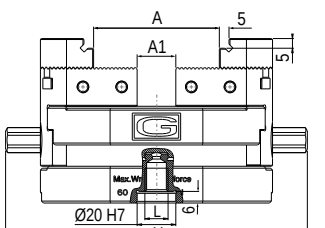
ØD

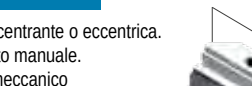


Esempio di ordine: Art. 640 tipo 1
(Art.297 **18mm** + Art.640P **40mm**)

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

Tipo (grandezza) morsa Vise type (size)		3 30 kN	Tipo (grandezza) morsa Vise type (size)		3 30 kN
Art. 640			Art. 640		
Tipo / Type 3 x 166			Tipo / Type 3 x 266		
Morsa autocentrante o eccentrica. Azionamento manuale. Serraggio meccanico 		A	108	Morsa autocentrante o eccentrica. Azionamento manuale. Serraggio meccanico 	
		A1	20		
		W	138		
		B	30		
		C	58		
		D	166		
		E	-		
		kg	13		
Cod.		7.64.03166	Cod.		7.64.03266
Self-centering or eccentric vise. Manual operation Mechanical clamping			Self-centering or eccentric vise. Manual operation Mechanical clamping		

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art. 641H		B	50	75	100	Art. 641H		B	50	75	100
Tipo / Type 3 x 166 		Cod.	7.64.1H3166AL /50	7.64.1H3166AL /75	7.64.1H3166AL /100	Tipo / Type 3 x 266 		Cod.	7.64.1H3266AL /50	7.64.1H3266AL /75	7.64.1H3266AL /100
Rialzo Semplice Simple Riser						Rialzo Semplice Simple Riser					
Kit di fissaggio e allineamento morsa incluso - Vise fixing and allignement kit included						Kit di fissaggio e allineamento morsa incluso - Vise fixing and allignement kit included					

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		Cod. 7.64.5E300 In Dotazione - Standard Equipment
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

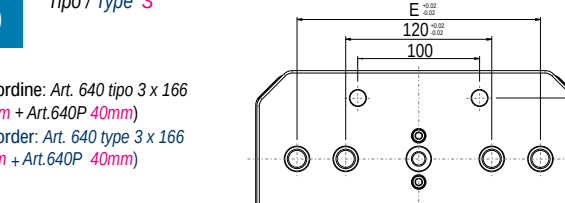
Tipo / Type 3

E
 +0.02
 -0.02



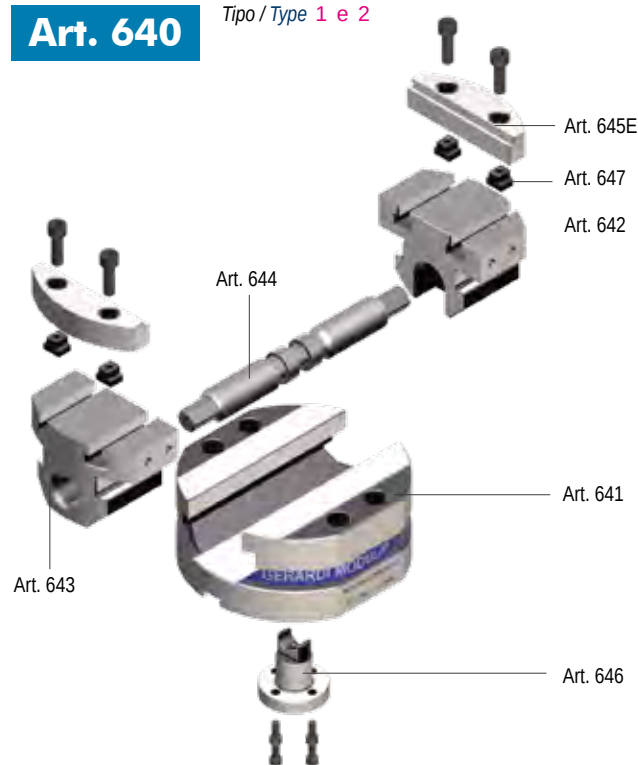
Esempio di ordine: Art. 640 tipo 3 x 166
(Art.79 20mm + Art.640P 40mm)

Example of order: Art. 640 type 3 x 166
(Art.79 20mm + Art.640P 40mm)



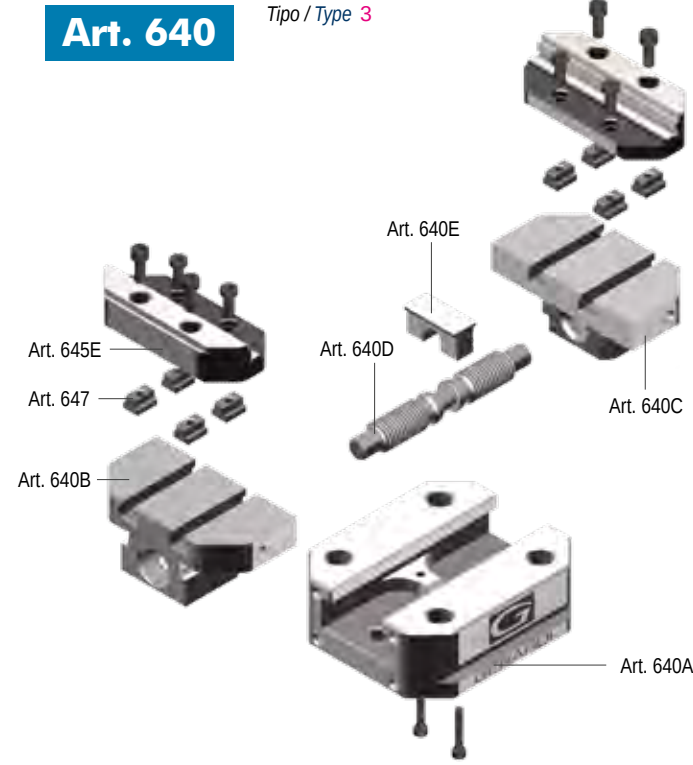
Art. 640

Tipo / Type **1 e 2**



Art. 640

Tipo / Type **3**



Tipo (grandezza) / Type (size)	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)			

Tipo (grandezza) / Type (size)	3x166	3x266
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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
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			

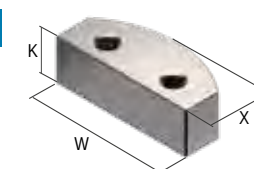
Art. 647	Cod.	7.64.73000	
Dado a T (Cad.) T nut (Each)			

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

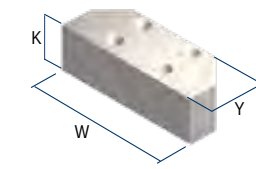
Tipo (grandezza) / Type (size)	1	2	3
B	15	20	30
Y	27,5	32,5	50
W	74	99	138

Art. 645B*

Ganascia dolce
Soft jaw



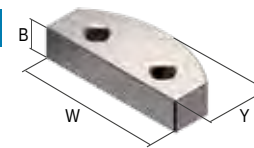
K	20	30
X	27,5	42,5
Cod.	6.64.5B100	6.64.5B200



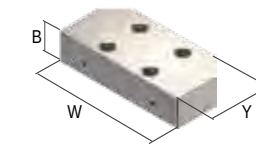
50	-
Cod.	7.64.5B300

Art. 645C*

Ganascia liscia
Smooth jaw



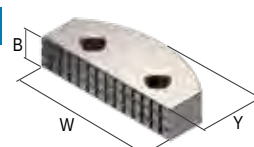
Cod.	6.64.5C100	6.64.5C200
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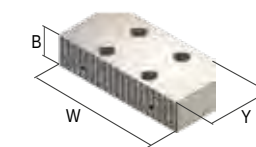
Cod.	7.64.5C300
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Art. 645D*

Ganascia zigrinata
Serrated jaw



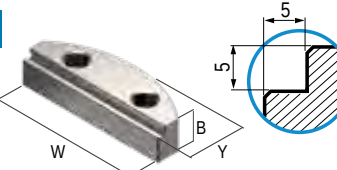
Cod.	6.64.5D100	6.64.5D200
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Cod.	7.64.5D300
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Art. 645E*

Ganascia a gradino
Step jaw



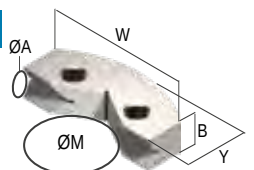
Cod.	6.64.5E100	6.64.5E200
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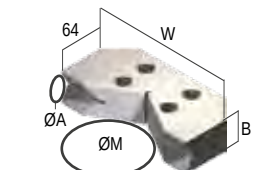
Cod.	7.64.5E300
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Art. 645F*

Ganascia prismatica
Prismatic jaw



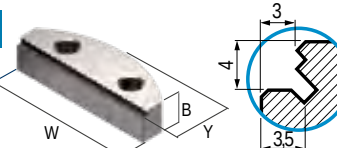
ØA	7 ÷ 15	9 ÷ 20
ØM	25 ÷ 70	35 ÷ 110
Cod.	6.64.5F100	6.64.5F200



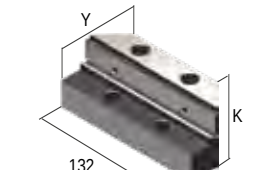
12 ÷ 30	50 ÷ 160
Cod.	7.64.5F300
	163

Art. 645T*

Ganascia GRIP Jaw



Cod.	6.64.5T100	6.64.5T200
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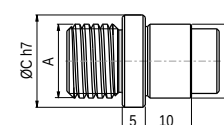
Cod.	7.64.5T300
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* Viti per fissaggio a richiesta Fixing screws on request

Tipo (grandezza) / Type (size)	1	2	3
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Art. 79

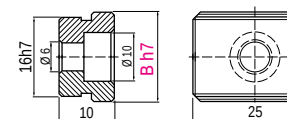
Perno calibrato per centraggio e orientamento
Calibrated centering and orientation pin



ØB	-	-	10-12-14-16-18-20
Cod.	-	-	7.79.20M16/ØB

Art. 297

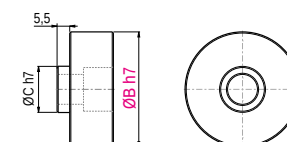
Coppia di tasselli di posizionamento
completi di vite M5 x 10
Pair of positioning key-nuts with M5 x 10 clamping screw



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

Art. 640P

Perno calibrato per centraggio
Calibrated centering pin



ØB	30 - 38,1 - 50 - 50,8
Cod.	7.64.0P100 7.64.0P200 7.64.0P300

* Specificare sempre quota B - Specify always B dimension

Tipo (grandezza) morsa / Vise type (size)		1 20 kN	2 26 kN
Art. 640J Morsa autocentrante o eccentrica. Azionamento manuale. Serraggio meccanico	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

Self-centering or eccentric vise.
Manual operation
Mechanical clamping

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

Art. 641H Tipo / Type 1	B	50	75	100
	Cod.	7.64.1H100AL /50	7.64.1H100AL /75	7.64.1H100AL /100
Rialzo Semplice Simple Riser				
Kit di fissaggio e allineamento morsa incluso - Vise fixing and allignement kit included				

Art. 641H Tipo / Type 2	B	50	75	100
	Cod.	7.64.1H200AL /50	7.64.1H200AL /75	7.64.1H200AL /100
Rialzo Semplice Simple Riser				
Kit di fissaggio e allineamento morsa incluso - Vise fixing and allignement kit included				

Art. 655B Piastra ganaschia dolce Soft jaw-plate	Cod.	7.65.5B100	7.65.5B200
Art. 655C Piastra ganaschia liscia Smooth jaw-plate	Cod.	7.65.5C100	7.65.5C200
Art. 655D Piastra ganaschia zigrinata Serrated jaw-plate	Cod.	7.65.5D100	7.65.5D200
Art. 655F Piastra ganaschia 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
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

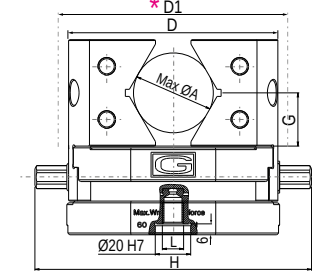
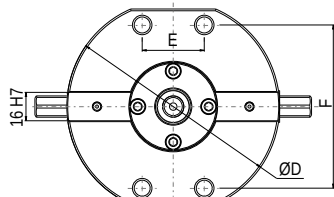
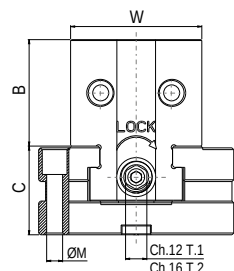
Dotazione standard:
■ 1 chiave esagonale Art. 375 ■ 1 arresto laterale Art. 370
■ 2 coppie di piastre Art. 655F (Tot. 4 pezzi) ■ 1 coppia di piastre dolci Art. 655B
■ 1 coppia di tasselli di posizionamento Art. 297*
■ 1 perno calibrato per centraggio Art. 640P*
*(Indicare dimensione in fase di ordine)



Standard equipment:
■ 1 exagonal wrench Art. 375 ■ 1 workshop 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*
*(Dimension to be advised at order)

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)		3 30 kN	3 30 kN
Art. 640J Morsa autocentrante o eccentrica. Azionamento manuale. Serraggio meccanico	Ø A	44 ÷ 68	48 ÷ 102
	A1	-	66
	W	78	78
	B	75	95
	C	58	58
	D	166	266
	E	-	200
	G	45	55
	kg	15	22
	Cod.	7.64.0J310	7.64.0J320

Self-centering or eccentric vise.
Manual operation
Mechanical clamping

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art. 641H Tipo / Type 3 x 166	B	50	75	100
	Cod.	7.64.1H3166AL /50	7.64.1H3166AL /75	7.64.1H3166AL /100
Rialzo Semplice Simple Riser				
Kit di fissaggio e allineamento morsa incluso - Vise fixing and allignement kit included				

Art. 641H Tipo / Type 3 x 266	B	50	75	100
	Cod.	7.64.1H3266AL /50	7.64.1H3266AL /75	7.64.1H3266AL /100
Rialzo Semplice Simple Riser				
Kit di fissaggio e allineamento morsa incluso - Vise fixing and allignement kit included				

Art. 655B

Piastra ganaschia dolce

Soft jaw-plate



Cod.

7.65.5B316

Art. 655C

Piastra ganaschia liscia

Smooth jaw-plate



Cod.

7.65.5C316

Art. 655D

Piastra ganaschia zigrinata

Serrated jaw-plate



Cod.

7.65.5D316

Art. 655F

Piastra ganaschia prismatica

Prismatic jaw-plate



Tipo / Type 3 x 166 Ø Min / Ø Max	12 ÷ 32	14 ÷ 34	16 ÷ 36	18 ÷ 45
Tipo / Type 3 x 266 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)

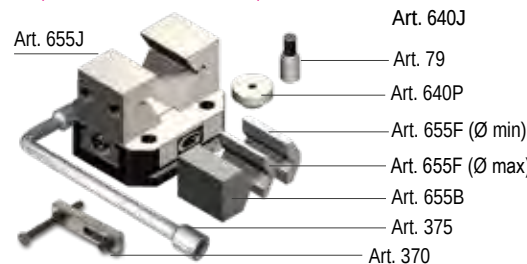


Ø	44 ÷ 68	48 ÷ 102
Cod.	7.65.5J316	7.65.5J326

Da usare in coppia / To be used as a pair

In Dotazione - Standard Equipment

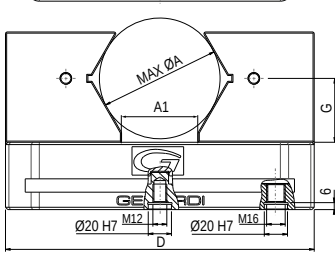
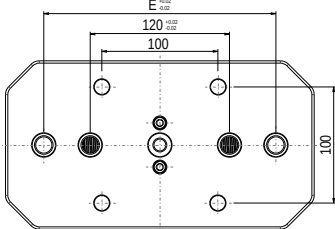
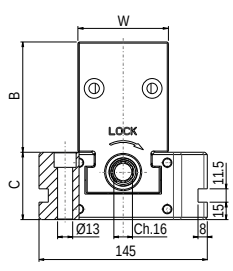
Dotazione standard:
■ 1 chiave a pipa Art. 375 ■ 1 arresto laterale Art. 370
■ 2 coppie di piastre Art. 655F (Tot. 4 pezzi) ■ 1 coppia di piastre dolci Art. 655B
■ 1 perno calibrato per centraggio e orientamento Art. 79*
■ 1 perno calibrato per centraggio Art. 640P*
*(Indicare dimensione in fase di ordine)



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 20mm + Art.640P 30mm)
Example of order: Art.640J type 3 x 266
(Art.79 20mm + Art.640P 30mm)



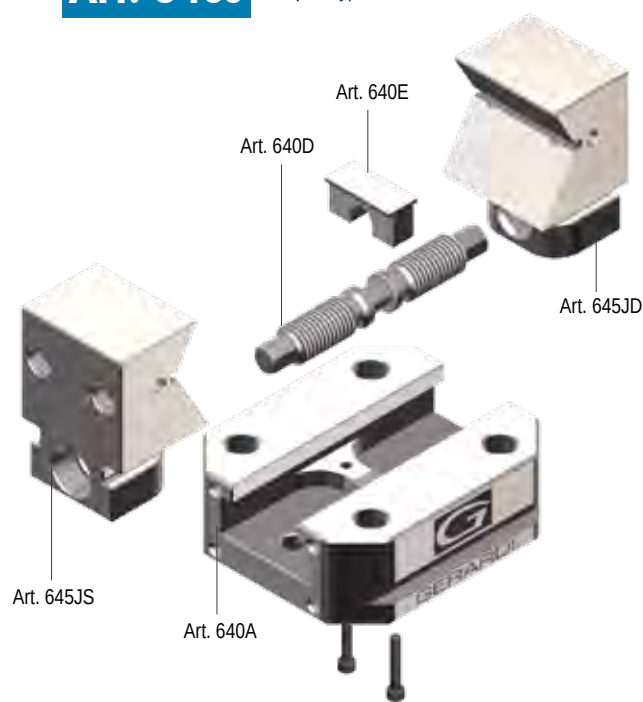
Art. 640J

Tipo / Type 1 e 2



Art. 640J

Tipo / Type 3



Tipo (grandezza) / Type (size)	1	2
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Art. 641	Cod.	6.64.11000	6.64.12000
Corpo base Base body			

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

Art. 646	Cod.	6.64.61000	6.64.462000
Forcella Yoke			

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

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

Tipo (grandezza) / Type (size)	3x166	3x266
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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. 645JD*	Cod.	7.64.5JD316	7.64.5JD326
Ganascia integrale prismatica dx Solid prismatic right jaw			

Art. 645JS*	Cod.	7.64.5JS316	7.64.5JS326
Ganascia integrale prismatica sx Solid prismatic left jaw			



GANASCE & PIASTRE GANASCE PER MORSE MULTITASKING Art.640J

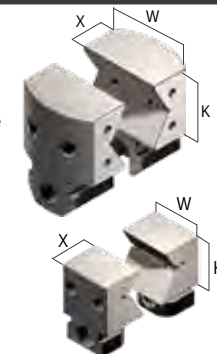
JAWS & JAW PLATES FOR MULTITASKING VISES Art.640J

Tipo (grandezza) / Type (size)	1	2	3
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Art. 655J

Tipo / Type 1 - 2

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



W	74	99	78	78
K	60	80	75	95
X	49	59	59	95
Ø	30 ÷ 45	45 ÷ 70	44 ÷ 68	48 ÷ 102
Cod.	7.65.5J100	7.65.5J200	7.65.5J316	7.65.5J326

In Dotazione - Standard Equipment

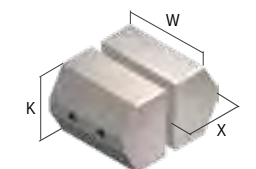
Art. 655J

Tipo / Type 3

In Dotazione - Standard Equipment

Art. 655B

Piastra ganascia dolce
Soft jaw-plate



K	55	70	60
X	38	54	49
Cod.	7.65.5B100	7.65.5B200	7.65.5B316

Art. 655C

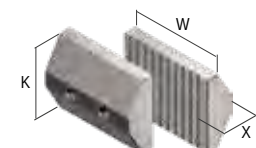
Piastra ganascia liscia
Smooth jaw-plate



K	55	70	60
X	23	32	24
Cod.	7.65.5C100	7.65.5C200	7.65.5C316

Art. 655D

Piastra ganascia zigrinata
Serrated jaw-plate

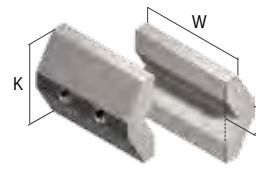


K	55	70	60
X	23	32	24
Cod.	7.65.5D100	7.65.5D200	7.65.5D316

Tipo (grandezza) / Type (size)	1	2	3x166	3x266
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Art. 655F

Piastra ganascia prismatica
Prismatic jaw-plate



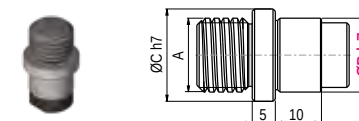
K	43	54	60	60
X	17	22	24	24
Ø	10 ÷ 18	10 ÷ 30	12 ÷ 32	12 ÷ 38
Cod.	7.65.5F118	7.65.5F230	7.65.5F330	
Ø	15 ÷ 23-23 ÷ 30 *	25 ÷ 45	14 ÷ 34	12 ÷ 38
Cod.	7.65.5F123	7.65.5F245	7.65.5F335	
Ø	-	-	16 ÷ 36	16 ÷ 58
Cod.	-	-	7.65.5F345	
Ø	-	-	18 ÷ 45	24 ÷ 65
Cod.	-	-	7.65.5F350	

* 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
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Art. 79

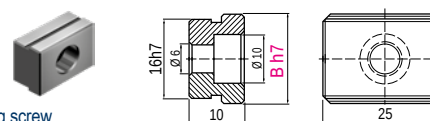
Perno calibrato per centraggio e orientamento
Calibrated centering and orientation pin



ØB	-	-	10-12-14-16-18-20
Cod.	-	-	7.79.20M16/ØB

Art. 297

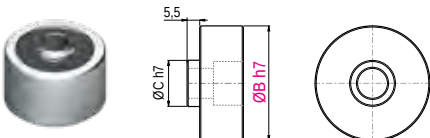
Coppia di tasselli di posizionamento
completi di vite M5 x 10
Pair of positioning key-nuts with M5 x 10 clamping screw



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

Art. 640P

Perno calibrato per centraggio
Calibrated centering pin

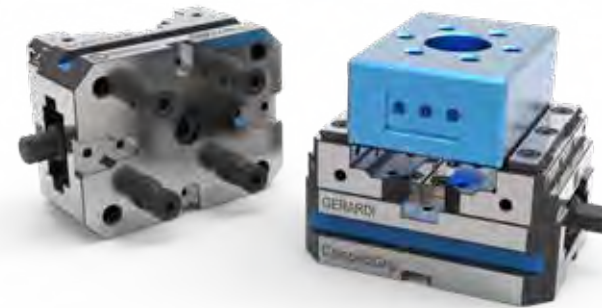
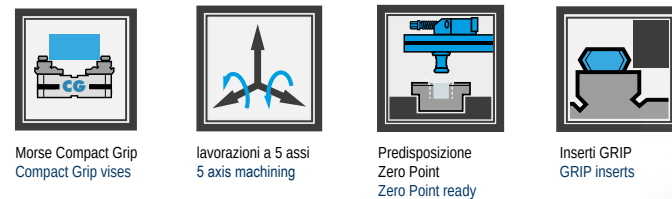


ØB	30 - 38.1 - 50 - 50.8	
Cod.	7.64.0P100	7.64.0P200 7.64.0P300

* Specificare sempre quota B - Specify always B dimension

MORSE COMPACT GRIP COMPACT GRIP VISES

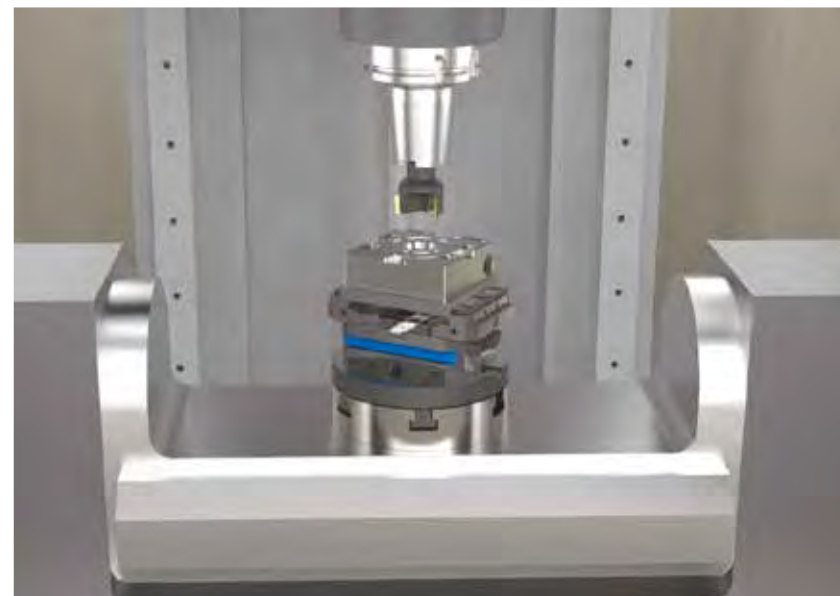
Esempi applicativi su centri a 5 assi - Application example on 5 axis machine



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 ganasce modulari montati sopra al corpo ganasce 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.



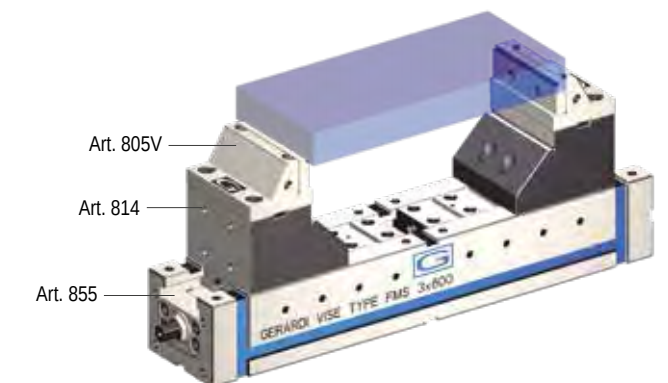
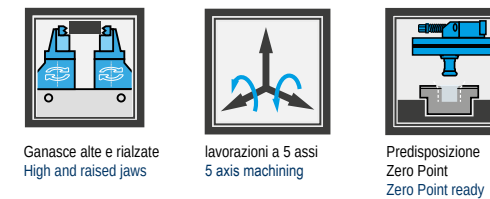
Dettaglio Inserto Grip.
Insert Grip detail.



Tramite il gradino liscio della ganasce 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.

MORSE FMS FMS VISES

Esempi applicativi su centri a 5 assi - Application example on 5 axis machine

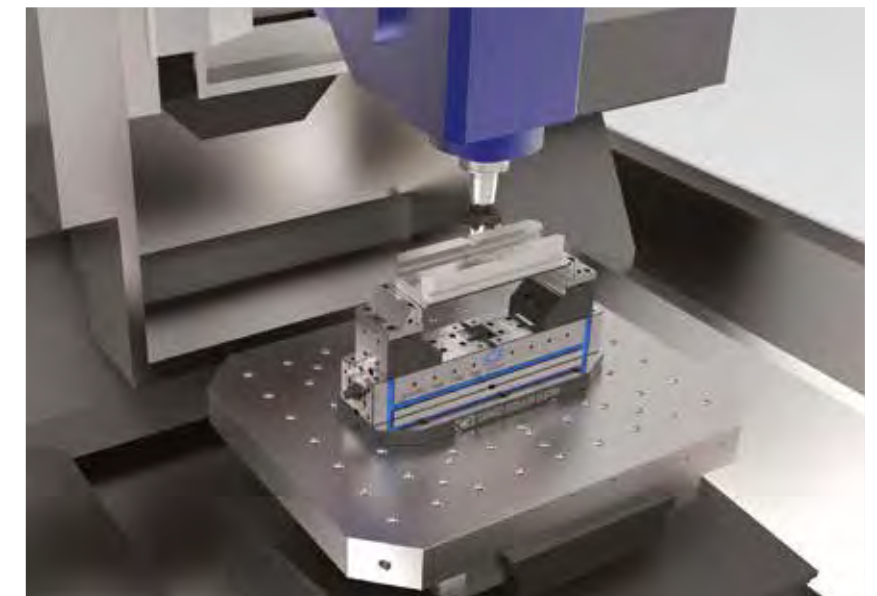


Art.868 FMS series

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.

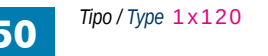
Thanks to the extreme versatility of the Gerardi Modular System even the FMS vises, properly reconfigured, can be used as Multitasking vises for 5 axis machine centres. It will be enough to assemble the movable base Art.814 with the relative jaws Art.805V on the universal vise base module Art.855.



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)		1 12 kN		2 22 kN	
Art. 650		Tipo / Type 1x120		Tipo / Type 2x160	
Morsa Autocentrante CompactGrip con ganasce reversibili, ideale per centri a 5 assi. 		A	54	94	134
		W	50	50	50
		E	80	120	160
		kg	1,9	2,7	3,4
		Cod.	7.65.01080	7.65.01120	7.65.01160
Self-centering CompactGrip vise with reversible jaws, Ideal for five axis centres					

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

Art. 651H

Tipo / Type 1

Rialzo Semplice

Simple Riser



B	100		
Cod.	7.65.1H1080 / 100	7.65.1H1120 / 100	7.65.1H1160 / 100

Art. 651H

Tipo / Type 2

Rialzo Semplice

Simple Riser



B	100		
Cod.	7.65.1H1080 / 100	7.65.1H1120 / 100	7.65.1H1160 / 100

Kit di fissaggio e allineamento morsa incluso - Vise fixing and alignment kit included

Kit di fissaggio e allineamento morsa incluso

Art. 660 Interasse / Type 52 mm Tavola Quick change Quick change table Vedi gamma completa - See the complete range Page 7.32 / 7.33	 Cod. 9.66.05200	Art. 660 Interasse / Type 52 mm Tavola Quick change Quick change table Vedi gamma completa Pag. 7.32 / 7.33
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Art. 650X Ganascia fissa intermedia Intermedie fixie jaw 	Cod. 7.65.0X1000	Art. 650X Ganascia fissa intermedia Intermedie fixie jaw 
In fase d'ordine specificare il tipo di inserto, vedi pag. 7.27 / In case of order always specify the type of insert, see page 7.27		

Art. 650T G01																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										</
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Art. 650T G02

Inserto ganascia

Top jaw insert

GRIP (Passo - Pitch 2mm)

Cod.

7.65.0T1000/G02

Side 1

Side 2

Art. 650T G11

Inserto ganancia

Top jaw insert

GRIP (Passo - Pitch 11mm)

Cod.

7.65.0T1000/G11

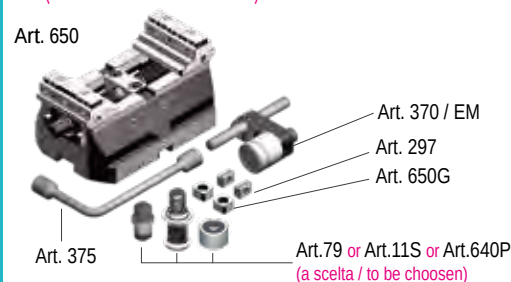
Side 1

Side 2

Dotazione standard:

- 1 chiave a pipa Art.375 ■ 1 arresto laterale Art.370EM ■ 1 coppia di tasselli per regolazione autocentrante Art. 297 ■ 2 tasselli di posizionamento Art.650G*
■ 1 perno calibrato per centraggio e orientamento Art.79 oppure 1 tirante zero point Art.11S
oppure 1 perno calibrato per centraggio Art.640P*
* (Indicare dimensione in fase di ordine)

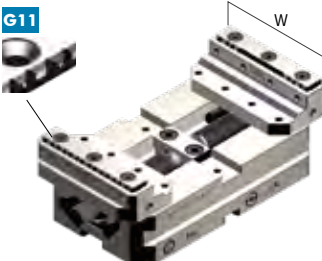
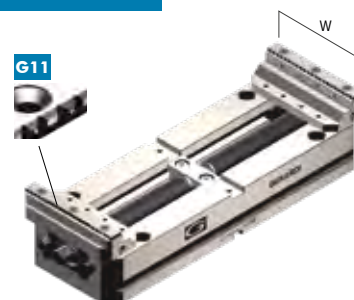
Art. 650



Standard equipment:

- 1 box wrench Art.375 ■ 1 workshop Art.370EM ■ 1 pair of self-centering key-nuts Art. 297
 ■ 2 positioning key-nuts Art.650G ■ 1 calibrated centering and orientation pin Art.79 or 1 pull stud
 for zero point Art.115 or 1 calibrated centering pin Art.640P*
- *(Dimension to be advised at order)

*(Dimension to be advised at order)

2 22 kN					3 32 kN						
Art. 650					Art. 650						
Tipo / Type 2x160					Tipo / Type 3x310						
A	96	136	176	216	A	133	183	233	283	333	
W	88	88	88	88	W	123	123	123	123	123	
E	120	160	200	240	E	160	210	260	310	360	
kg	3,6	4,4	5,2	5,8	kg	9,1	10,9	12,8	14,8	17	
Cod.	7.65.02120	7.65.02160	7.65.02200	7.65.02240	Cod.	7.65.03160	7.65.03210	7.65.03260	7.65.03310	7.65.03360	
											

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

B	100					100				
Cod.	7.65.1H2120 /100	7.65.1H2160 /100	7.65.1H2200 /100	7.65.1H2240 /100		7.65.1H3160 /100	7.65.1H3210 /100	7.65.1H3260 /100	7.65.1H3310 /100	7.65.1H3360 /100
Vise fixing and allignement kit included					Art. 651H Tipo / Type 3 Rialzo Semplice Simple Riser	Kit di fissaggio e allinamento morsa incluso - Vise fixing and allignement kit included				

Art. 660 Cod. 9.66.05200  See the complete range Page 7.32 / 7.33	Art. 660 <i>Interasse / Type 96 m m</i> Tavola Quick change Quick change table 	Cod. 9.66.09600  Vedi gamma completa - See the complete range Page 7.32 / 7.33
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Cod.	7.65.0X2000		7.65.0X3000

In fase d'ordine specificare il tipo di inserto, vedi pag. 7.27 / In case of order always specify the type of insert, see page 7.27

Cod.	7.65.0T2000/G01	Art. 650T G01	7.65.0T3000/G01
		Per materiali di durezza normale For standard workpieces hardness clamping	

Cod.	7.65.0T2000/G02	Art. 650T G02	7.65.0T3000/G02
		Per materiali di notevole durezza For hardened workpieces clamping	

Cod.	7.65.0T2000/G11	Art. 650T G11	7.65.0T3000/G11
		Per materiali teneri For soft material clamping	

Art. 650

Tipo / Type **2**

Art. 650

Tipo / Type **3**

Tipo (grandezza) morsa / Vise (type) size		2 22 kN				
		kN				
Art. 950 Morsa Autocentrante Compact Grip con ganasce lavorabili in acciaio, ideale per centri a 5 assi	Tipo / Type 2x160	A	45	85	125	165
		W	128			
		B	93			
		C	38			
		C1	53			
		D	89,9			
		E	120	160	200	240
		F	52			
		G	49			
		L	Ø12			
		L1	M8			
		kg	7,9	8,6	9,4	10,1
		Cod.	7.95.02120	7.95.02160	7.95.02200	7.95.02240

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

Per morsa T.1 utilizzare ganasacia Art.650BM / CM (pag.7.30) / For vise T.1 use jaw Art.650BM / CM (see pag. 7.30)

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

Art. 651H Tipo / Type 2 Rialzo Semplice Simple Riser	B	100			
	Cod.	7.65.1H2120 / 100	7.65.1H2160 / 100	7.65.1H2200 / 100	7.65.1H2240 / 100

Kit di fissaggio e allinamento morsa incluso - Vise fixing and allignement kit included

Art. 660 Interasse / Type 52 mm		Cod.	9.66.05200		
Tavola Quick change Quick change table					
Vedi gamma completa - See the complete range Page 7.32 / 7.33					

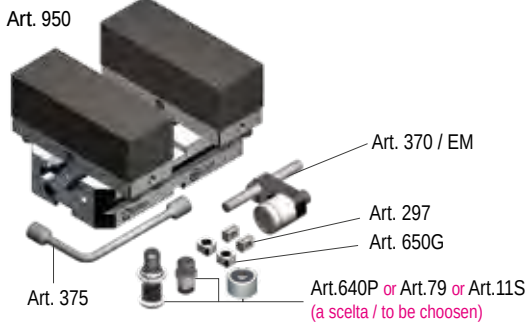
Art. 950B Slitta DESTRA con chiavette Solid hardened slide RIGHT HAND with positioning key nuts	N	W	G	Cod.	7.95.0B2000

Art. 950C Slitta SINISTRA con chiavette Solid hardened slide LEFT HAND with positioning key nuts	N	W	G	Cod.	7.95.0C2000

Art. 950D Ganascia lavorabile in acciaio Machineable steel jaw	N1	W	G	Cod.	7.95.0D2000

Dotazione standard:

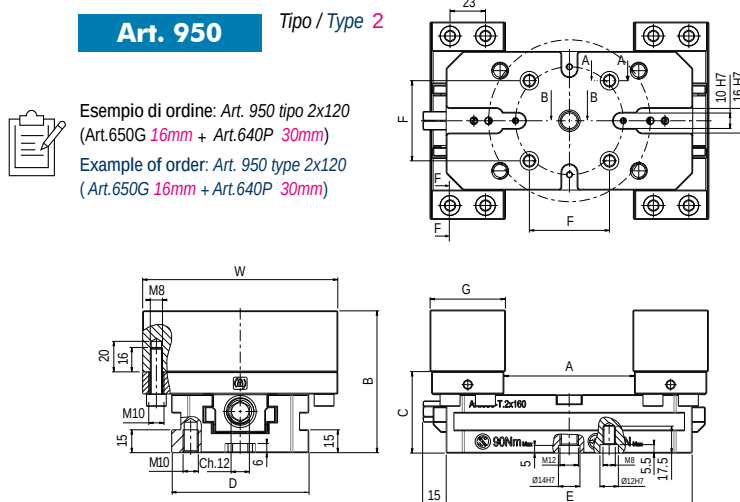
■ 1 chiave a pipa Art.375 ■ 1 arresto laterale Art.370EM ■ 1 coppia di tasselli per regolazione autocentrante Art. 297 ■ 2 tasselli di posizionamento Art.650G* ■ 1 perno calibrato per centraggio e orientamento Art.79 oppure 1 tirante zero point Art.11S oppure 1 perno calibrato per centraggio Art.640P*
* (Indicare dimensione in fase di ordine)



Standard equipment:

■ 1 box wrench Art.375 ■ 1 workshop Art.370EM ■ 1 pair of self-centring key-nuts Art. 297 ■ 2 positioning key-nuts Art.650G* ■ 1 calibrated centering and orientation pin Art.79 or 1 pull stud for zero point Art.11S or 1 calibrated centering pin Art.640P*
*(Dimension to be advised at order)

Art. 950 Tipo / Type 2
Esempio di ordine: Art. 950 tipo 2x120
(Art.650G 16mm + Art.640P 30mm)
Example of order: Art. 950 type 2x120
(Art.650G 16mm + Art.640P 30mm)



Tipo (grandezza) morsa / Vise (type) size		3 32 kN				
		kN				
Art. 950 Morsa Autocentrante Compact Grip con ganasce lavorabili in acciaio, ideale per centri a 5 assi	Tipo / Type 3x360	A	71	121	171	221
		W	160			
		B	124			
		C	57			
		C1	77			
		D	124,9			
		E	160	210	260	310
		F	96			
		G	59			
		L	Ø16			
		L1	M10			
		kg	16.8	18.6	20.5	22.5
		Cod.	7.95.03160	7.95.03210	7.95.03260	7.95.03310

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

Per morsa T.1 utilizzare ganasacia Art.650BM / CM (pag.7.30) / For vise T.1 use jaw Art.650BM / CM (see pag. 7.30)

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art. 651H Tipo / Type 3 Rialzo Semplice Simple Riser	B	100			
	Cod.	7.65.1H3160 / 100	7.65.1H3210 / 100	7.65.1H3260 / 100	7.65.1H3310 / 100

Kit di fissaggio e allinamento morsa incluso - Vise fixing and allignement kit included

Art. 660 Interasse / Type 96 mm		Cod.	9.66.09600		
Tavola Quick change Quick change table					
Vedi gamma completa - See the complete range Page 7.32 / 7.33					

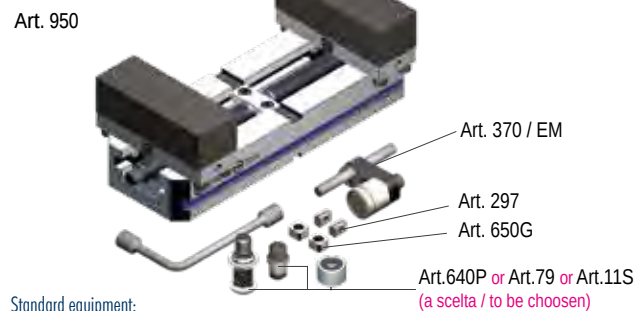
Art. 950B Slitta DESTRA con chiavette Solid hardened slide RIGHT HAND with positioning key nuts	M	Cod.	7.95.0B3000		

Art. 950C Slitta SINISTRA con chiavette Solid hardened slide LEFT HAND with positioning key nuts	M	Cod.	7.95.0C3000		

Art. 950D Ganascia lavorabile in acciaio Machineable steel jaw	M	Cod.	7.95.0D3000		

Dotazione standard:

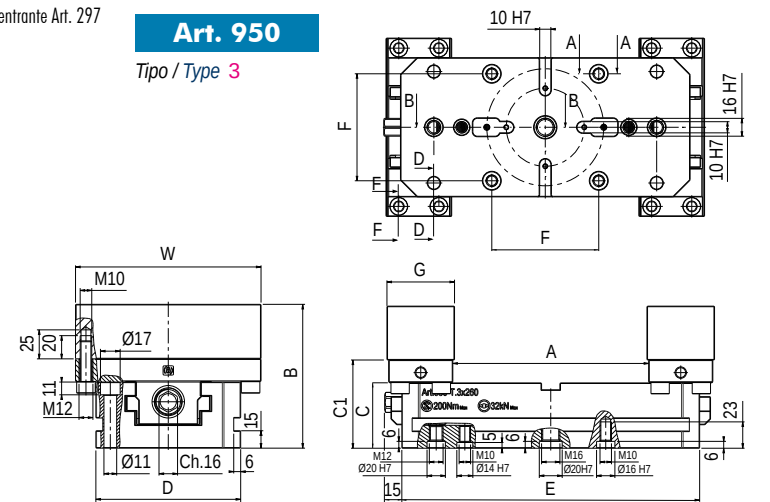
■ 1 chiave a pipa Art.375 ■ 1 arresto laterale Art.370EM ■ 1 coppia di tasselli per regolazione autocentrante Art. 297 ■ 2 tasselli di posizionamento Art.650G* ■ 1 perno calibrato per centraggio e orientamento Art.79 oppure 1 tirante zero point Art.11S oppure 1 perno calibrato per centraggio Art.640P*
* (Indicare dimensione in fase di ordine)



Standard equipment:

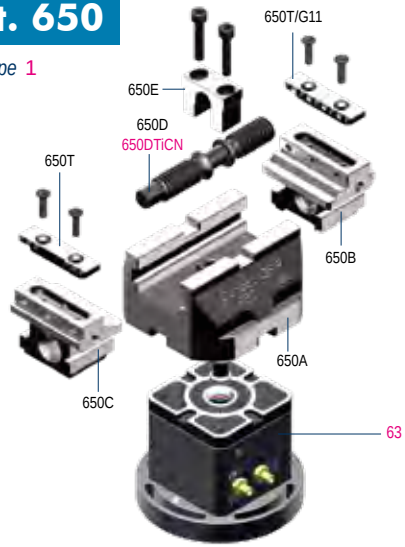
■ 1 box wrench Art.375 ■ 1 workshop Art.370EM ■ 1 pair of self-centring key-nuts Art. 297 ■ 2 positioning key-nuts Art.650G* ■ 1 calibrated centering and orientation pin Art.79 or 1 pull stud for zero point Art.11S or 1 calibrated centering pin Art.640P*
*(Dimension to be advised at order)

Art. 950
Tipo / Type 3



Art. 650

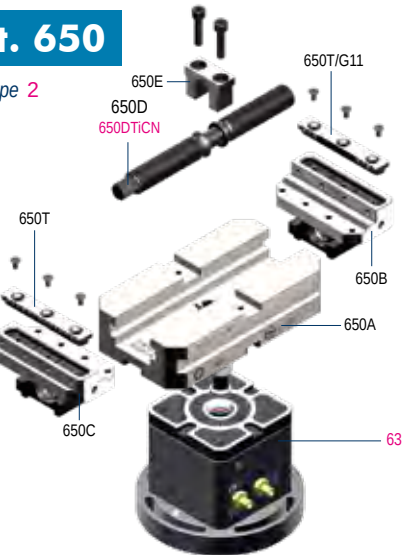
Tipo / Type 1



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.650DTiCN (Optional)	Cod.	7.65.0D1080-TiCN	7.65.0D1120-TiCN	7.65.0D1160-TiCN
Vite di bloccaggio a scorrimento rapido con rivestimento anti-usura TiCN Quick-slide clamping screw with anti-wear coating TiCN				
Art. 650E	Cod.		7.65.0E1000	
Forcella - Yoke				
Tipo / Type		1	2	
Art. 63 (Optional)	Cod.	9.63.10000	9.63.20000	
Rialzo singolo con Zero Point Risers with ZeroPoint				

Art. 650

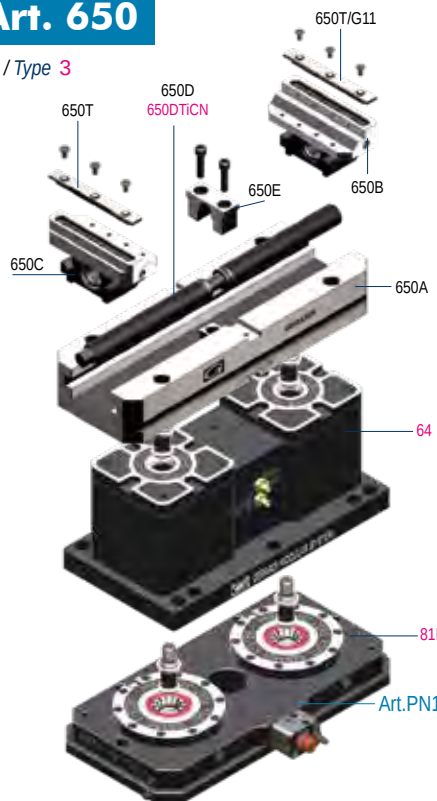
Tipo / Type 2



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.650DTiCN (Optional)	Cod.	7.65.0D2120-TiCN	7.65.0D2160-TiCN	7.65.0D2200-TiCN	7.65.0D2240-TiCN
Vite di bloccaggio a scorrimento rapido con rivestimento anti-usura TiCN Quick-slide clamping screw with anti-wear coating TiCN					
Art. 650E	Cod.		7.65.0E2000		
Forcella - Yoke					
Tipo / Type		1	2		
Art. 63 (Optional)	Cod.	9.63.10000	9.63.20000		
Rialzo singolo con Zero Point Risers with ZeroPoint					

Art. 650

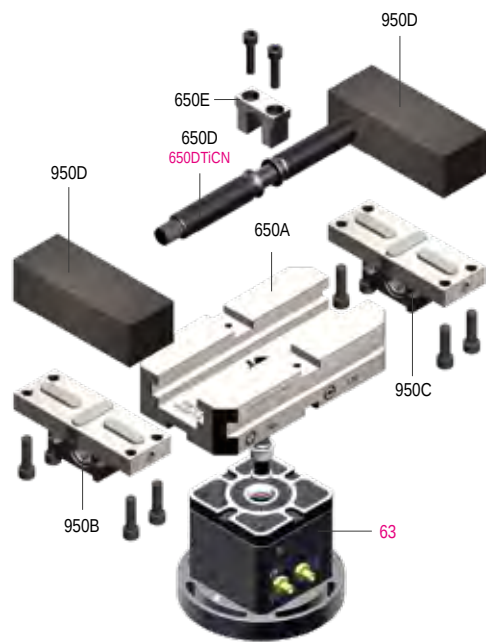
Tipo / Type 3



Tipo / Type 3		3x160	3x210	3x260	3x310	3x360
Art. 650A	Cod.	7.65.0A3160	7.65.0A3210	7.65.0A3260	7.65.0A3310	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.650DTiCN (Optional)	Cod.	7.65.0D3160-TiCN	7.65.0D3210-TiCN	7.65.0D3260-TiCN	7.65.0D3310-TiCN	7.65.0D3360-TiCN
Vite di bloccaggio a scorrimento rapido con rivestimento anti-usura TiCN Quick-slide clamping screw with anti-wear coating TiCN						
Art. 650E	Cod.		7.65.0E3000			
Forcella - Yoke						
Tipo / Type		1	2			
Art. 64 (Optional)	Cod.	9.64.10000	9.64.20000			
Rialzo doppio con Zero Point Double riser with Zero Point						
Non utilizzabile con morse tipo 3x160 - Impossible to use with vises type 3x160						
Piastra ZeroPoint, montaggio incassato - ZeroPoint Plates, built-in mounting						
Art. 81P (Optional)		Acciaio Steel	Alluminio Aluminum			
Piastra di interfaccia Zero Point per morse CompactGrip tipo 3						
	Cod.	9.81.P2040S2	9.81.P2040A2			
Zero Point connecting plate for CompactGrip vise Type 3						
Non utilizzabile con morse tipo 3x160 / 3x210 - Impossible to use with vises type 3x160 / 3x210						

Art. 950

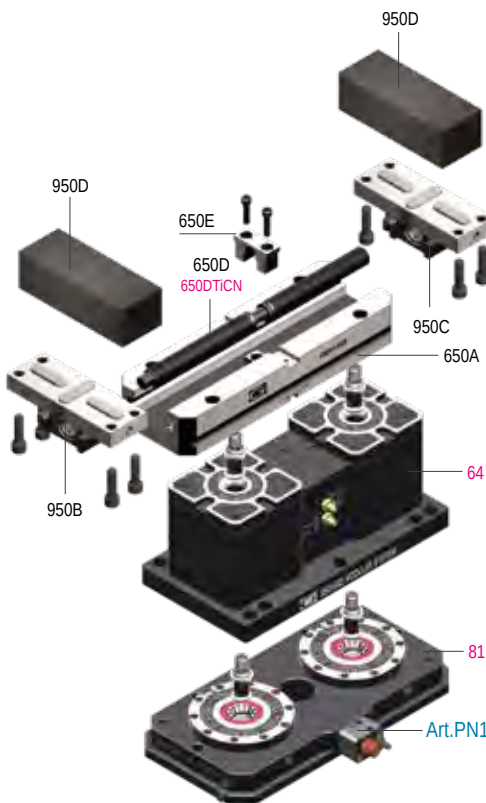
Tipo / Type 2



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. 950B	Cod.		7.95.0B2000		
Ganascia integrale destra Solid jaw right hand					
Art. 950C	Cod.		7.95.0C2000		
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.650DTiCN (Optional)	Cod.	7.65.0D2120-TiCN	7.65.0D2160-TiCN	7.65.0D2200-TiCN	7.65.0D2240-TiCN
Vite di bloccaggio a scorrimento rapido con rivestimento anti-usura TiCN Quick-slide clamping screw with anti-wear coating TiCN					
Art. 650E	Cod.		7.65.0E2000		
Forcella - Yoke					
Art. 950D	Cod.		7.95.0D2000		
Ganascia lavorabile in acciaio Machineable steel jaw					
Tipo / Type		1	2		
Art. 63 (Optional)	Cod.	9.63.10000	9.63.20000		
Rialzo singolo con Zero Point Risers with ZeroPoint					

Art. 950

Tipo / Type 3



Tipo / Type 3		3x160	3x210	3x260	3x310	3x360
Art. 650A	Cod.	7.65.0A3160	7.65.0A3210	7.65.0A3260	7.65.0A3360	7.65.0A3360
Corpo base - Base body						
Art. 950B	Cod.		7.95.0B3000			
Ganascia integrale destra Solid jaw right hand						
Art. 950C	Cod.		7.95.0C3000			
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.650DTiCN (Optional)	Cod.	7.65.0D3160-TiCN	7.65.0D3210-TiCN	7.65.0D3260-TiCN	7.65.0D3310-TiCN	7.65.0D3360-TiCN
Vite di bloccaggio a scorrimento rapido con rivestimento anti-usura TiCN Quick-slide clamping screw with anti-wear coating TiCN						
Art. 650E	Cod.		7.65.0E3000			
Forcella - Yoke						
Art. 950D	Cod.		7.95.0D3000			
Ganascia lavorabile in acciaio Machineable steel jaw						
Tipo / Type		1	2			
Art. 64 (Optional)	Cod.	9.64.10000	9.64.20000			
Rialzo doppio con Zero Point Double riser with Zero Point						
Non utilizzabile con morse tipo 3x160 - Impossible to use with vises type 3x160						
Piastra ZeroPoint, montaggio incassato - ZeroPoint Plates, built-in mounting						
Art. 81P (Optional)		Acciaio Steel	Alluminio Aluminum			
Piastra di interfaccia Zero Point per morse CompactGrip tipo 3						
	Cod.	9.81.P2040S2	9.81.P2040A2			
Zero Point connecting plate for CompactGrip vise Type 3						
Non utilizzabile con morse tipo 3x160 / 3x210 - Impossible to use with vises type 3x160 / 3x210						

GANASCE E INSERTI GANASCE PER MORSE COMPACT GRIP Art.650

JAWS & INSERT JAWS FOR COMPACT GRIP VISES Art.650

Tipo (grandezza) / Type (size)	1	2	3
Art. 650S LISCIA + RUVIDA SMOOTH + ROUGH Per materiali teneri e lavorazioni finali For soft material clamping and final machining	Cod. 7.65.0S1000	7.65.0S2000	7.65.0S3000
Art. 650R *CODA DI RONDINE DOVE TAIL Miglior presa pezzo Best workpiece clamping	Cod. 7.65.0R1000	7.65.0R2000	7.65.0R3000
Art. 650T G01 GRIP (Passo - Pitch 1,5mm) Per materiali di durezza normale For standard workpieces hardness clamping	Cod. 7.65.0T1000/G01	7.65.0T2000/G01	7.65.0T3000/G01
Art. 650T G02 GRIP (Passo - Pitch 2mm) Per materiali di notevole durezza For hardened workpieces clamping	Cod. 7.65.0T1000/G02	7.65.0T2000/G02	7.65.0T3000/G02
Art. 650T G11 GRIP (Passo - Pitch 11mm) Per materiali teneri For soft material clamping	Cod. 7.65.0T1000/G11	7.65.0T2000/G11	7.65.0T3000/G11

* Utensile fresa per realizzare la base del particolare da bloccare (pag. 7.29)
Milling tool for working the base of the workpiece to be clamp (pag. 7.29)

PIASTRINA FRONTALE FRONTAL JAW PLATE

NEW

Tipo (grandezza) / Type (size)	1	2	3
Art. 655L Piastrina LISCIA frontale con fori filettati M4 Frontal SMOOTH jaw plate with threaded holes M4	W 50 K 8 X 3,5 Cod. 7.65.5L1000	80 10 5,5 7.65.5L2000	115 10 5,5 7.65.5L3000
Art. 655M Piastrina DOLCE frontale con fori filettati M4 Frontal SOFT jaw plate with threaded holes M4	W 50 K 8 X 10 Cod. 7.65.5M1000	80 10 10,5 7.65.5M2000	115 10 10,5 7.65.5M3000
Art. 655N Piastrina ZIGRINATA frontale Frontal SERRATED jaw plate	W 50 K 8 X 3,5 Cod. 7.65.5N1000	80 10 5,5 7.65.5N2000	115 10 5,5 7.65.5N3000
Art. 655P Piastrina parallela magnetica piana frontale Frontal straight parallel magnetic plate	W 50 K 5 X 3 Cod. 7.65.5P1000	80 7 5 7.65.5P2000	115 7 5 7.65.5P3000

GANASCIA FISSA CENTRALE PER MORSE COMPACT GRIP Art.650

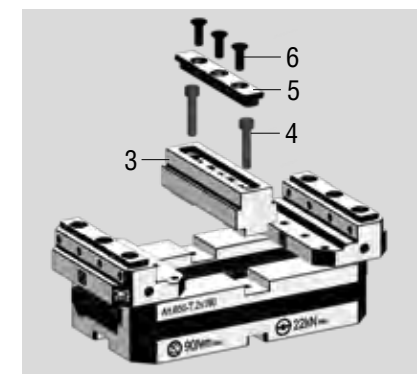
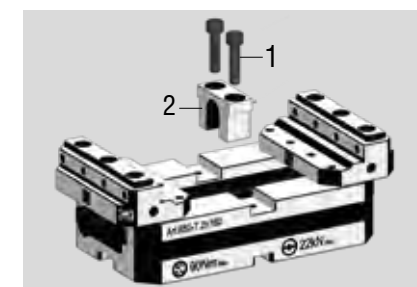
CENTRAL FIXED JAW FOR COMPACT GRIP VISES Art.650

NEW
2021

Tipo (grandezza) / Type (size)	1	2	3
Art. 650X Ganascia fissa centrale Central fixed jaw	A 18 A1 24 B 8 B1 20 C 50 Cod. 7.65.0X1000	22 28 13 23 88 7.65.0X2000	22 29 18 28 123 7.65.0X3000

Un inserto per ganascia fissa centrale a scelta incluso (vedi tabella sotto)
One top jaw insert as you need included (see table below)

In fase d'ordine specificare il tipo di inserto - In case of order always specify the type of insert



1 ISTRUZIONI OPERATIVE DI MONTAGGIO ASSEMBLY INSTRUCTIONS

- Svitare le due viti (1) che bloccano la forcina
- Estrarre la forcina (2) che regola l'autocentrante
- Get the two yoke's screws (1) loosen
- Remove the yoke (2)
- for the self centering

- Posizionare la ganascia fissa doppia centrale (3) nella sede delle chiavette
- Inserire le viti (4) nella sede della ganascia fissa per bloccare la stessa
- Posizionare l'apposito inserto Grip (5) nella sede della ganascia fissa
- Bloccare l'inserto Grip con le viti (6)
- Place the central double fixed jaw (3) in the key nuts seat
- Place the screws (4) in their seats on the central double fixed jaw and get them tight;
- Put the Insert Grip (5) in its seat on the central double fixed jaw
- Get the Insert Grip's screws (6) tight



INSERTI GANASCE PER GANASCIA FISSA CENTRALE

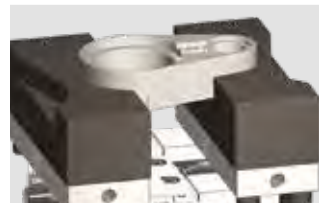
INSERT JAWS FOR CENTRAL FIXED JAW

NEW

Tipo (grandezza) / Type (size)	1	2	3
Art. 650V LISCE - SMOOTH Materiali teneri e lavorazioni finali Soft material clamping and final machining	Cod. 7.65.0V1000	7.65.0V2000	7.65.0V3000
Art. 650Y RUVIDE - ROUGH Miglior presa pezzo Best workpiece clamping	Cod. 7.65.0Y1000	7.65.0Y2000	7.65.0Y3000
Art. 650U G01 GRIP (Passo - Pitch 1,5mm) Per materiali di durezza normale For standard workpieces hardness clamping	Cod. 7.65.0U1000/G01	7.65.0U2000/G01	7.65.0U3000/G01
Art. 650U G02 GRIP (Passo - Pitch 2mm) Per materiali di notevole durezza For hardened workpieces clamping	Cod. 7.65.0U1000/G02	7.65.0U2000/G02	7.65.0U3000/G02
Art. 650U G11 GRIP (Passo - Pitch 11mm) Per materiali teneri For soft material clamping	Cod. 7.65.0U1000/G11	7.65.0U2000/G11	7.65.0U3000/G11

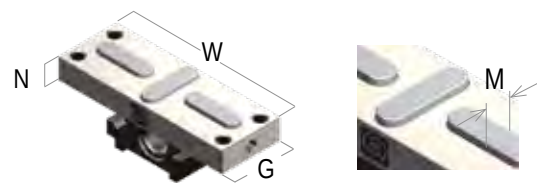
ACCESSORI PER MORSE COMPACT GRIP Art.950

Art.950 COMPACT GRIP VISES ACCESSORIES

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

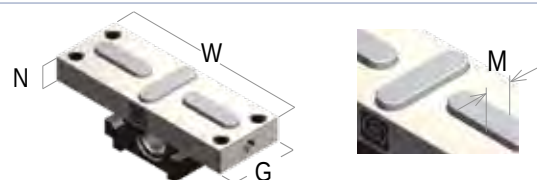
Slitta DESTRA con chiavette
Solid hardened slide RIGHT HAND
with positioning key nuts



N	15	20
Cod.	7.95.0B2000	7.95.0B3000

Art. 950C

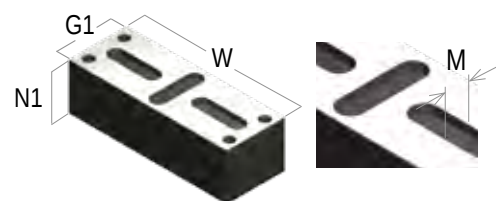
Slitta SINISTRA con chiavette
Solid hardened slide LEFT HAND
with positioning key nuts



N	15	20
Cod.	7.95.0C2000	7.95.0C3000

Art. 950D*

Ganascia lavorabile in acciaio
Machineable steel jaw
G1= G+2 mm

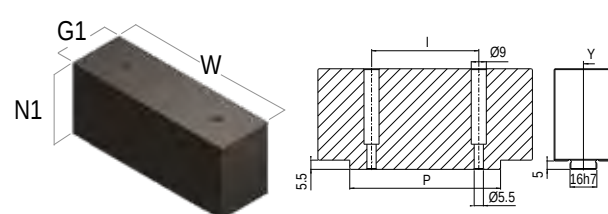


N1	30	47
Cod.	7.95.0D2000	7.95.0D3000

* Viti per fissaggio a richiesta
Fixing screws on request

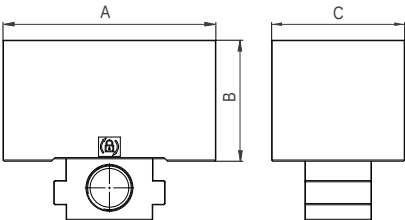
Art. 950X*

Ganascia fissa intermedia
lavorabile in acciaio
Intermediate machineable
steel fixed jaw



W	128	160
G1	35	50
N1	55	67
I	64	90
P	90	124
Cod.	7.95.0X2000	7.95.0X3000

* Viti per fissaggio a richiesta
Fixing screws on request

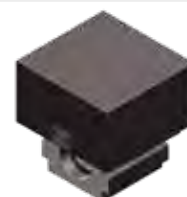
Tipo (grandezza) / Type (size)	1	2	3
			
A	50	88	123
B	30	50	70
C	50	55	60

Art. 650BM

Ganascia lavorabile
filetto destro
Soft machineable jaw
right thread



Cod.	7.65.0BM10	7.65.0BM20
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7.65.0BM30

Specifiche per Art.650 Tipo1 - Specific for Art.650 type 1

Art. 650CM

Ganascia lavorabile
filetto sinistro
Soft machineable jaw
left thread



Cod.	7.65.0CM10	7.65.0CM20
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7.65.0CM30

Specifiche per Art.650 Tipo1 - Specific for Art.650 type 1

ACCESSORI PER MORSE COMPACT GRIP Art.650 / Art.950

Art.650 / Art.950 COMPACT GRIP VISES ACCESSORIES

Tipo (grandezza) / Type (size)	1	2	3
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Art. 370EM

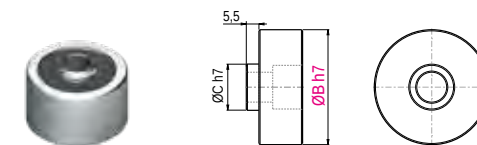
Arresto laterale magnetico
Magnetic workstop



Cod.	7.37.01000/EM	7.37.02000/EM
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Art. 640P

Perno calibrato per centraggio
Calibrated centering pin



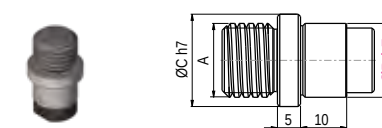
ØC h7	20		
ØB	30 - 38,1(1,5") - 50 - 50,8 (2")		
Cod.	7.64.0P100	7.64.0P200	7.64.0P300

* Specificare sempre quota B - Specify always B dimension

* Specificare sempre quota B - Specify always B dimension

Art. 79

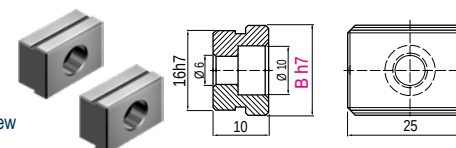
Perno calibrato per centraggio e orientamento
Calibrated centering and orientation pin



A	M10	M12	M16
ØC h7	14	14	20
ØB	10 - 12 - 14 - 16 - 18 - 20		
Cod.	7.79.14M10/ØB	7.79.14M12/ØB	7.79.20M16/ØB

Art. 297

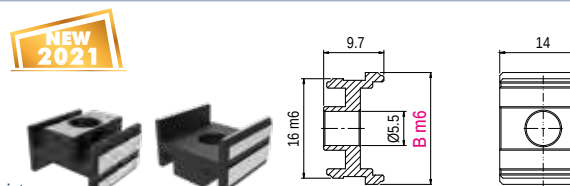
Coppia di tasselli per regolazione autocentrante
con vite M5 x 10
Pair of Self-centering key-nuts with M5 x 10 screw



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

Art. 297X

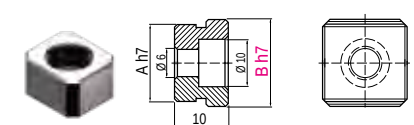
Tassello a Gioco Zero per il
posizionamento preciso
di morse singole su zero point
Key nut NO-GAP for accurate
single vise positioning on zero point



B	12 - 14 - 16 - 18 - 20
Cod.	297X1612 / 14 / 16 / 18 / 20

Art. 650G

Tassello di posizionamento morse completo di viti
Key-nut for vise positioning with screws

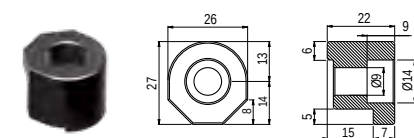


Specificare sempre quota B - Specify always B dimension

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

Art. 298 / CGR

Staffa per Compact Grip
Compact Grip holding clamp



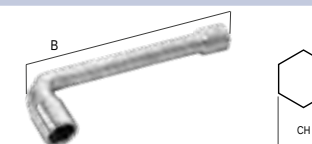
Cod.	7.29.81000/CGR
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Tipo (grandezza) / Type (size)

Dimensioni / Dimension

Art.375

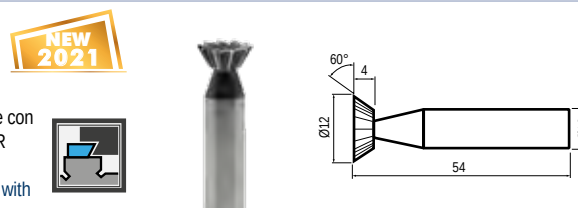
Chiave a pipa
Box wrench



	1		2		3	
	CH	B	CH	B	CH	B
	10	160	12	160	16	250
Cod.	4.37.510160		4.37.512160		4.37.516250	

Art. 690DTF

Utensile fresa per realizzare
la base del particolare da serrare con
inserti a coda di rondine Art.650R
Milling tool for working the base
of the workpiece to be clamped with
dove tail inserts Art.650R



	Ø12
Cod.	7.69.0DTF10

TAVOLA CAMBIO RAPIDO PER MORSE COMPACT GRIP

**NEW**

Per Morse Tipo - For Vises Type		1 - 2	3
INTERASSE - PITCH		52	96
Art. 660 Tavola Cambio rapido meccanica rettangolare  Mechanical quick change rectangular table	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	

***NON DISPONIBILE PER IL MERCATO TEDESCO E AUSTRIACO - *NOT AVAILABLE FOR GERMAN AND AUSTRIAN MARKET**

Per Morse Tipo - For Visi Type		1 - 2	3
INTERASSE - PITCH		52	96
Art. 660S* Tavola Cambio rapido meccanica rettangolare temprata con parte lavorabile senza fori  Mechanical quick change hardened with machineable part holes free rectangular table	C	27	27
	D	126	156
	E	150	190
	F	52	96
	L	Ø12h7	Ø16h7
	L1	M8	M10
	kg	-	-
	Cod.	9.66.0S520	9.66.0S960
Personalizzazione esclusa - Customization not included			

***NON DISPONIBILE PER IL MERCATO TEDESCO E AUSTRIACO - *NOT AVAILABLE FOR GERMAN AND AUSTRIAN MARKET**

Per Morse Tipo - For Vises Type		1 - 2 - 3	
INTERASSE - PITCH		52	
Art. 660R Tavola Cambio rapido meccanica rettangolare di riduzione  Mechanical quick change rectangular reduction table	B	96	
	C	27	
	D	126	
	E	150	
	F	52	
	L	Ø12h7	
	L1	M8	
	kg	3,75	
	Cod.	9.66.0R210	

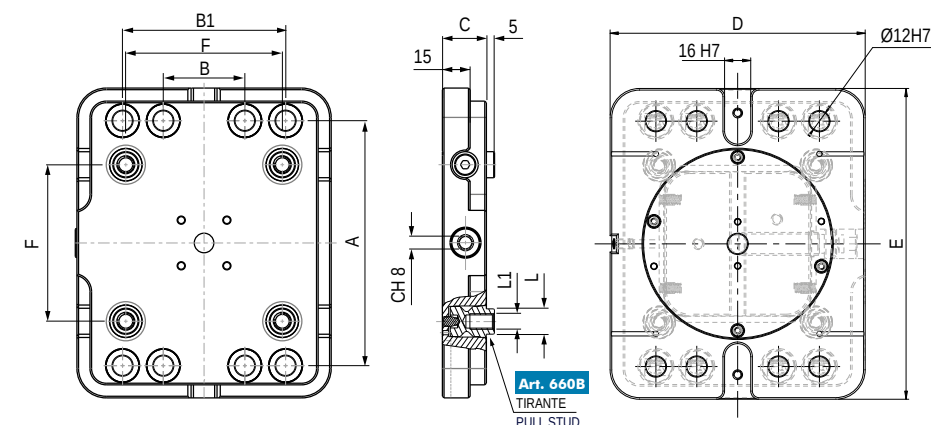
*NON DISPONIBILE PER IL MERCATO TEDESCO E AUSTRIACO - *NOT AVAILABLE FOR GERMAN AND AUSTRIAN MARKET

TAVOLA CAMBIO RAPIDO PER MORSE COMPACT GRIP

NEW

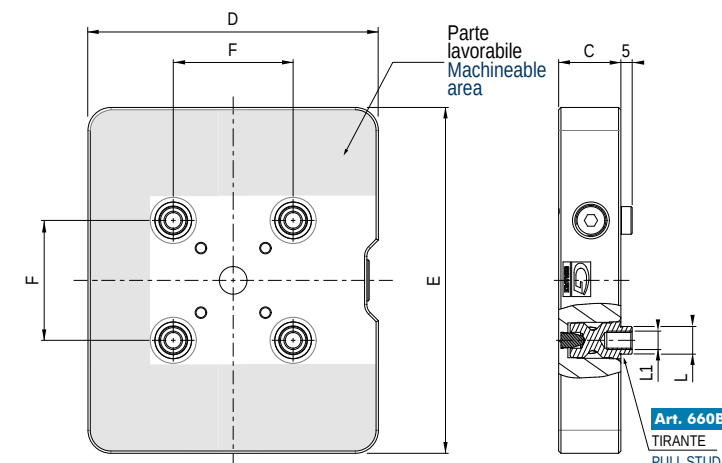
Art. 660

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



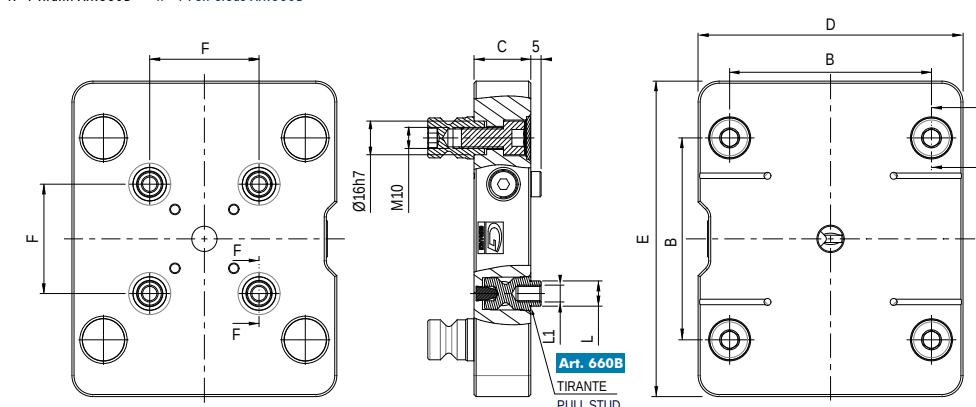
Art. 660S

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

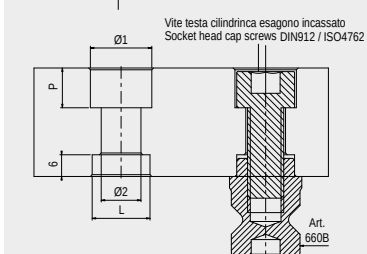
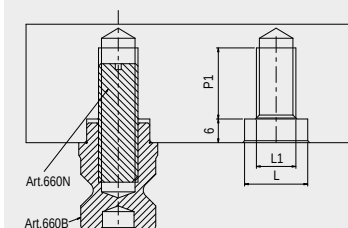


Art. 660R

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

**Art. 660B**

Tiranti per tavola cambio rapido
Quick change table pull studs



Type	1	2
L	Ø12 h7	Ø16 h7
L1	M8	M10
Ø1	14	17
Ø2	9	11
P	9	11
P1	12	18
Code	9.66.0B100	9.66.0B200



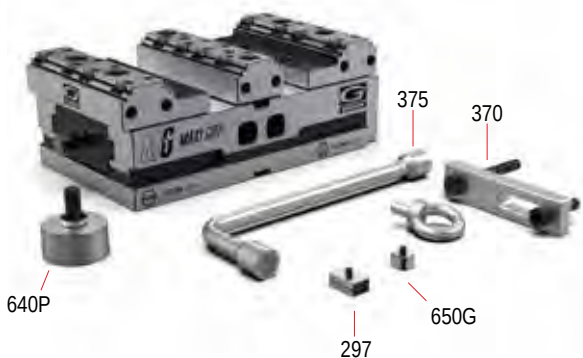
Tipo (grandezza) morsa / Vise type (size)	kN	4x270	4x420
		kN 41	
Art. 685 Morsa MaxiGrip - 3 Serraggi in 1 Autocentrante, doppia e singola  	A	200	344
	A1	83	155
	A2	104	248
	A3	35	107
	W	158	
	E	270	420
	kg	28,5	40
	Cod.	76854270	76854420
MaxiGrip vise - 3 clamping in 1 Self-Centering, Double and Single			

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

Art. 660 Interasse / Type 96 m m  Tavola Quick change Quick change table	Cod.	9.66.09600
Vedi gamma completa - See the complete range Page 7.32 / 7.33		
Art. 683K Ganascia fissa centrale (viti incluse) Intermedie fixed jaw (screws included) 	Cod.	7683K400/G01
Art. 682K Ganascia Mobile (inserti e viti incluse) Movable Jaw (inserts and screws included) 	Cod.	7682K400/G01
Art. 220 Inserto Grip Top jaw insert 	Cod.	4.22.01000/G01
Vedi gamma completa - See the complete range Page 4.17		
Art. 680U Piatra laterale per serraggio singolo (viti extra) Side plate for single clamping (screws not included) 	Cod.	7680U4000

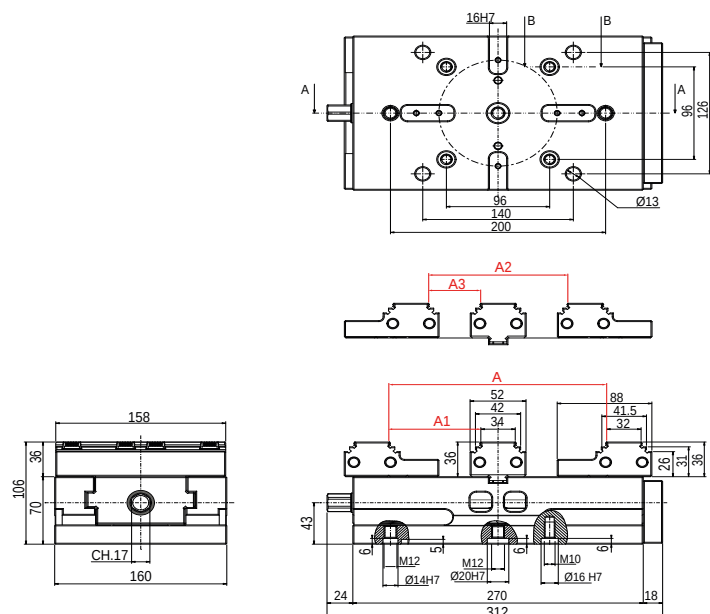
Dotazione standard:

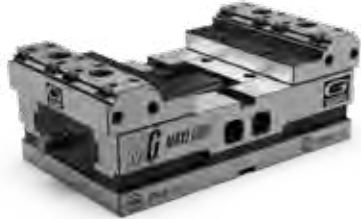
- 1 chiave a pipa Art.375/17 ■ 2 Arresti laterali Art.370 T.3
- 1 coppia di tasselli per regolazione autocentrante Art. 297 16/16
- 2 tasselli di posizionamento Art.650G 16/16 ■ 1 perno calibrato per centraggio Art.640P ■ 2 golfari M10 o M12



Standard equipment:

- 1 box wrench Art.375/17 ■ 2 workstops Art.370 T.3
- 1 pair of self-centring key-nuts Art. 297 16/16
- 2 positioning key-nuts Art.650G 16/16 ■ 1 calibrated centering pin Art.640P ■ 2 eyebolts M10 o M12



Tipo (grandezza) morsa / Vise type (size)	kN	4x270	4x420
		kN 41	
Art. 684 Morsa MaxiGrip Solo Autocentrante 	A	200	344
	A1	-	-
	A2	104	248
	A3	-	-
	W	158	
	E	270	420
	kg	25	36
	Cod.	76844270	76844420
MaxiGrip vise Only Self-centering			

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art. 660 Interasse / Type 96 m m  Tavola Quick change Quick change table	Cod.	9.66.09600
Vedi gamma completa - See the complete range Page 7.32 / 7.33		
Art. 683K Ganascia fissa centrale (viti incluse) Intermedie fixed jaw (screws included) 	Cod.	7683K400/G01
Art. 682K Ganascia Mobile (inserti inclusi) Movable Jaw (inserts included) 	Cod.	7682K400/G01
Art. 220 Inserto Grip Top jaw insert 	Cod.	4.22.01000/G01
Vedi gamma completa - See the complete range Page 4.17		
Art. 680U Piatra laterale per serraggio singolo (viti extra) Side plate for single clamping (screws not included) 	Cod.	7680U4000

Grafico Test
Art. 685-684 T4x270-420

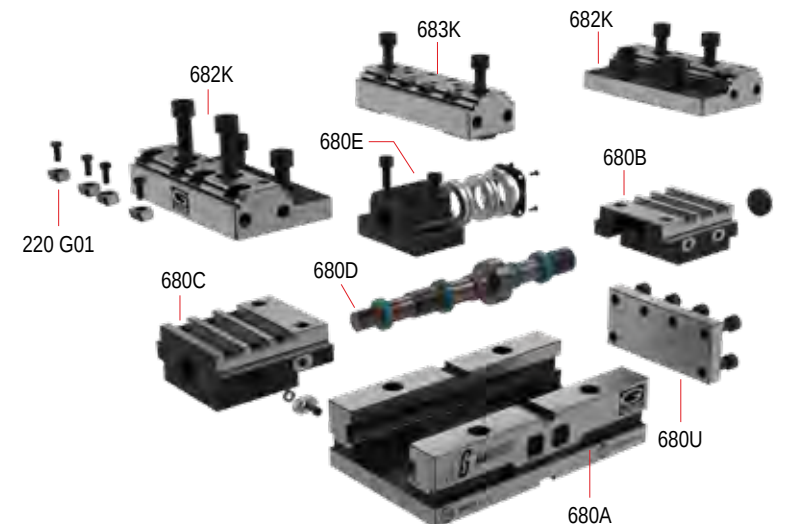
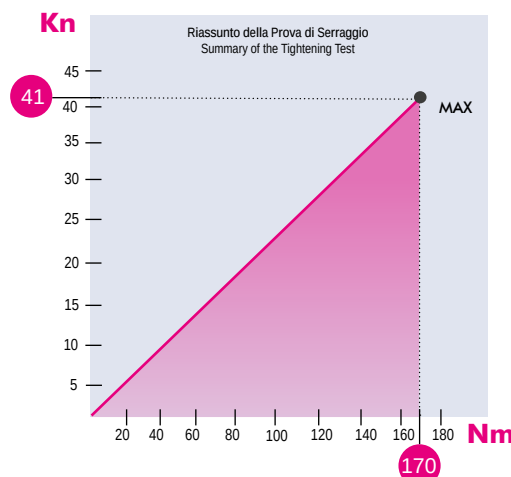


TAVOLA CAMBIO RAPIDO PER MORSE COMPACT GRIP

QUICK CHANGE TABLE FOR COMPACT GRIP VISES



NEW

Per Morse Tipo - For Vises Type	INTERASSE - PITCH	
	1 - 2	3
	52	96
Art. 661		
Tavola Cambio rapido meccanica tonda		
ØA	158	196
ØB	120	175
C	27	27
F	52	96
L	Ø12h7	Ø16h7
L1	M8	M10
kg	3,4	-
Cod.	9.66.15200	9.66.19600

Mechanical quick change rounded table

*NON DISPONIBILE PER IL MERCATO TEDESCO E AUSTRIACO - *NOT AVAILABLE FOR GERMAN AND AUSTRIAN MARKET

Per Morse Tipo - For Vises Type	INTERASSE - PITCH	
	1 - 2	3
	52	96
Art. 661S*		
Tavola Cambio rapido meccanica tonda temprata con parte lavorabile senza fori		
A	158	196
C	27	27
F	52	96
L	Ø12h7	Ø16h7
L1	M8	M10
kg	3,8	-
Cod.	9.66.1S520	9.66.1S960

Round mechanical quick change hardened with machineable part holes free table

Personalizzazione esclusa - Customization not included

*NON DISPONIBILE PER IL MERCATO TEDESCO E AUSTRIACO - *NOT AVAILABLE FOR GERMAN AND AUSTRIAN MARKET

Per Morse Tipo - For Vises Type	INTERASSE - PITCH	
	1 - 2 - 3	
	52 - 96	
Art. 661R		
Tavola Cambio rapido meccanica tonda di riduzione		
ØA	158	
B	96	
C	27	
F	52	
L	Ø12h7	
L1	M8	
kg	3,75	
Cod.	9.66.1R210	

Round mechanical quick change reduction table

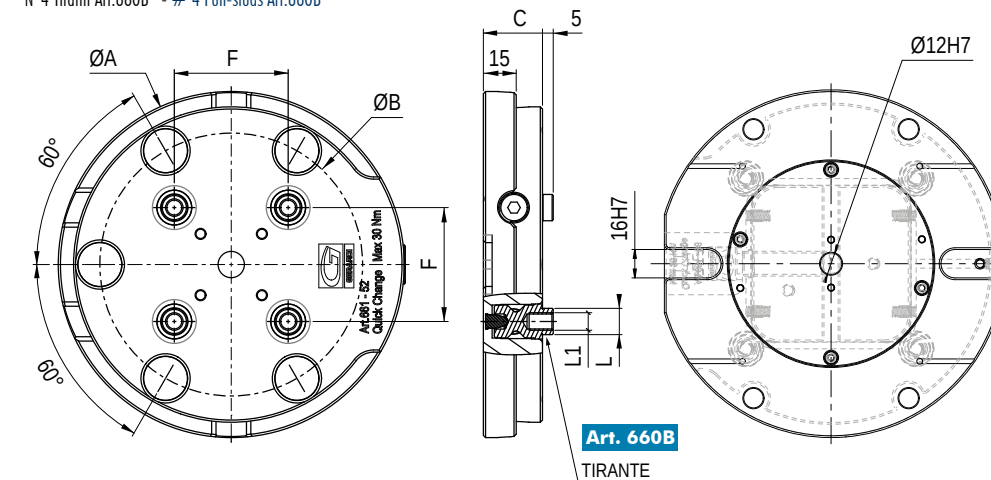
*NON DISPONIBILE PER IL MERCATO TEDESCO E AUSTRIACO - *NOT AVAILABLE FOR GERMAN AND AUSTRIAN MARKET

TAVOLA CAMBIO RAPIDO PER MORSE COMPACT GRIP

QUICK CHANGE TABLE FOR COMPACT GRIP VISES

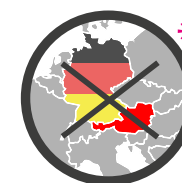
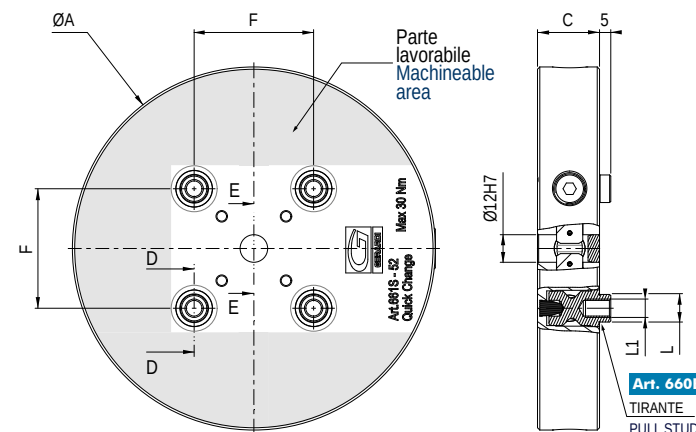
Art. 661

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



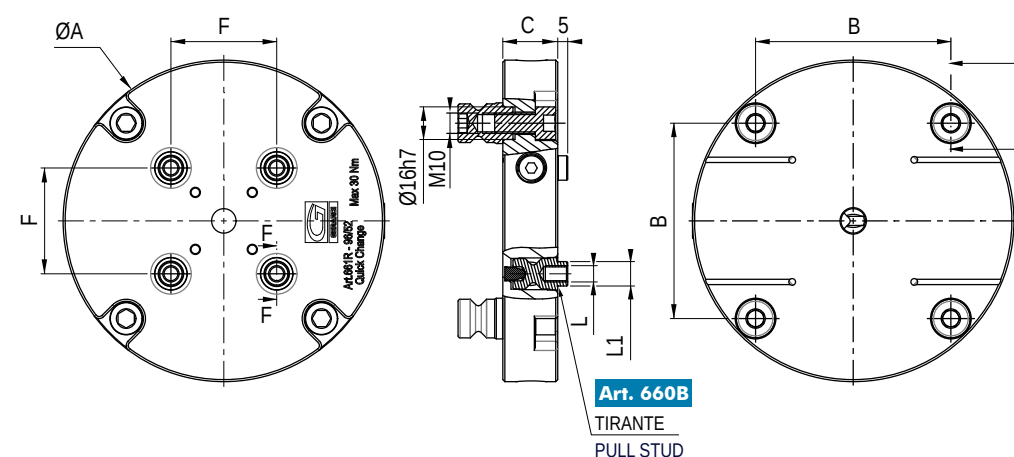
Art. 661S

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



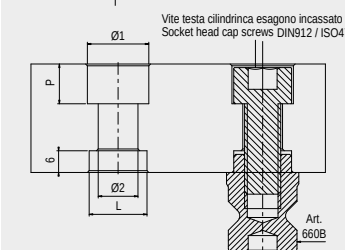
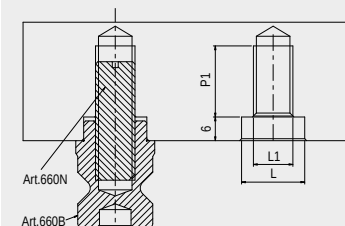
Art. 661R

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



Art. 660B

Tiranti per tavola cambio rapido
Quick change table pull studs



Type	1	2
L	Ø12 h7	Ø16 h7
L1	M8	M10
Ø1	14	17
Ø2	9	11
P	9	11
P1	12	18
Code	9.66.0B100	9.66.0B200



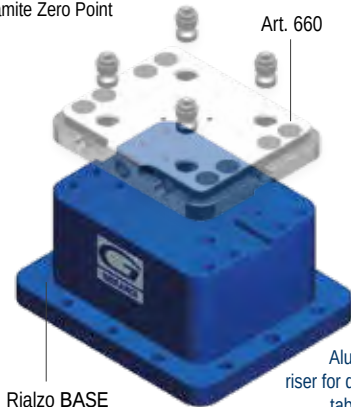
RIALZI SEMPLICI IN ALLUMINIO PER TAVOLA A CAMBIO RAPIDO

SIMPLE ALUMINUM RISERS for QUICK CHANGE TABLE

NEW 2021
Per Morse Tipo - For Vises Type
INTERASSE - PITCH

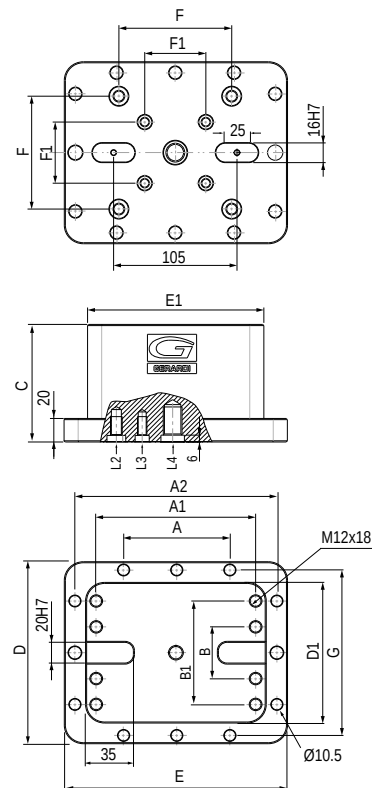
Art. 661H

Rialzo base in alluminio per tavola cambio rapido, possibilità di montaggio con staffe o tramite Zero Point


 Rialzo BASE
 BASE riser
 Art. 661H

Aluminum base riser for quick change table. Mounting possibility through vise holding clamps and Zero Point system

	1 - 2	3
	52	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.	9.66.1H520	9.66.1H960



Kit di fissaggio e allineamento rialzo non incluso / Riser fixing and alignment kit not included

Per Morse Tipo - For Vises Type
INTERASSE - PITCH

Art. 661HQ

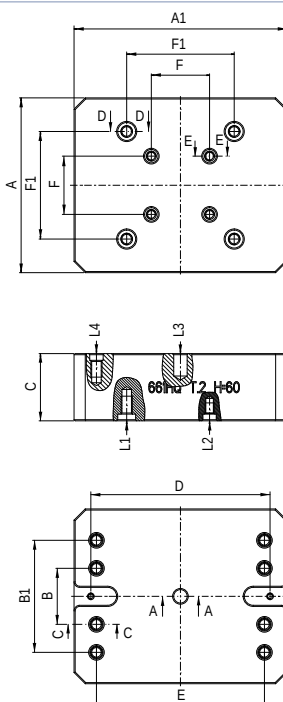
Rialzo semplice in alluminio per tavola cambio rapido

 Rialzo TOP
 TOP riser
 Art. 661HQ


Art. 660

Simple aluminum riser for quick change table

	1 - 2	3
	52	96
A	116	156
A1	150	150
B	50	50
B1	-	100
C	60	100
D	120	160
E	100	150
F	52	-
F1	96	96
L1	Ø16 H7 / M10	Ø16 H7 / M10
L2	Ø12 H7 / M8	Ø12 H7 / M8
L3	Ø12 H7	Ø12 H7
L4	Ø12 H7 / M10	Ø12 H7 / M10
kg	-	-
Cod.	9.66.1HQ52/060 9.66.1HQ52/100	9.66.1HQ96/060 9.66.1HQ96/100



Kit di fissaggio e allineamento rialzo non incluso / Riser fixing and alignment kit not included

Tipo - Type

Art. 660B

Tiranti per tavola cambio rapido

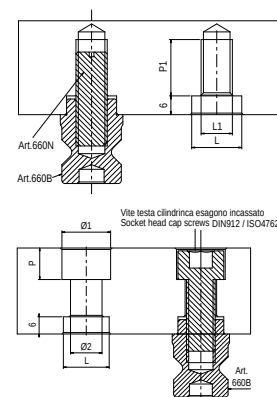


Tipo - Type 1 Tipo - Type 2

NEW

Quick change table pull studs

	1	2
L	Ø12 h7	Ø16 h7
L1	M8	M10
Ø1	14	17
Ø2	9	11
P	9	11
P1	12	18
Cod.	9.66.0B100	9.66.0B200



SUPPORTO PIRAMIDALE PER MULTITASKING & COMPACT GRIP

PYRAMIDAL SUPPORT FOR MULTITASKING & COMPACT GRIP

NEW 2021
Tipo (grandezza) / Type (size)
PIANO INCLINATO - GRADE SIDE
1
30°

Art. 643H

Supporto piramidale in alluminio a tripla posizione. Possibilità di montaggio tramite Zero Point e tavole a cambio rapido

Aluminum pyramidal support with 3 positions Mounting possibility through Zero Point system and quick change tables



Dotazione standard

- 1 Golfare
- 12 Staffe di ancoraggio Art.298 CGR
- 4 tiranti Art.660B T2

Standard equipment:

- 1 Eyebolt
- 12 Vise holding clamps Art.298 CGR with M8 screws
- 4 pull studs Art.660B T2

 Multitasking
 Compact Grip

 -
 Art.650 T.1x80/120

 ØA
 B
 C
 D
 E
 F
 G
 H
 H1
 kg

 200
 120°
 80
 50
 65
 120
 94
 169,4
 135
 6,8

Cod.

7.64.3H100

Tipo (grandezza) / Type (size)
PIANO INCLINATO - GRADE SIDE
2
45°

Art. 643H

Supporto piramidale in alluminio a tripla posizione. Possibilità di montaggio tramite Zero Point

Aluminum pyramidal support with 3 positions Mounting possibility through Zero Point system



Dotazione standard

- 1 Golfare
- 12 Staffe di ancoraggio Art.298 CGR
- 1 Perno di centraggio
- Coppia di tasselli Art.297

Standard equipment:

- 1 Eyebolt
- 12 Vise holding clamps Art.298 CGR with M8 screws
- 1 Centering pin
- Pair ok keynuts Art.287

 Multitasking
 Compact Grip

 Art.640 - T.1
 Art.650 T.2x120/160/200 - Art.950 T.2x120/160/200

 ØA
 B
 C
 D
 E
 F
 G
 H
 H1
 kg

 308
 120°
 -
 90
 65
 160
 136
 135,5
 109
 11,9

Cod.

7.64.3H200

Tipo (grandezza) / Type (size)
PIANO INCLINATO - GRADE SIDE
3
45°

Art. 643H

Supporto piramidale in alluminio a tripla posizione. Possibilità di montaggio tramite Zero Point

Aluminum pyramidal support with 3 positions Mounting possibility through Zero Point system



Dotazione standard

- 1 Golfare
- 12 Staffe di ancoraggio Art.298 CGR
- 1 Perno di centraggio
- Coppia di tasselli Art.297

Standard equipment:

- 1 Eyebolt
- 12 Vise holding clamps Art.298 CGR with M8 screws
- 1 Centering pin
- Pair ok keynuts Art.287

 Multitasking
 Compact Grip

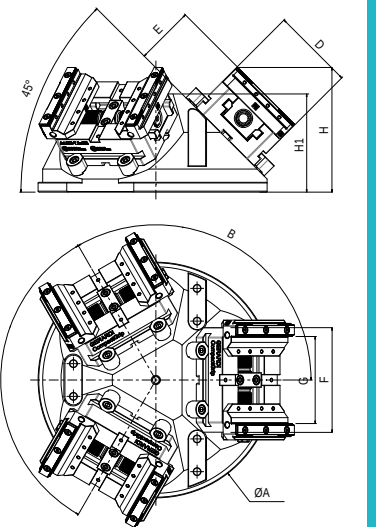
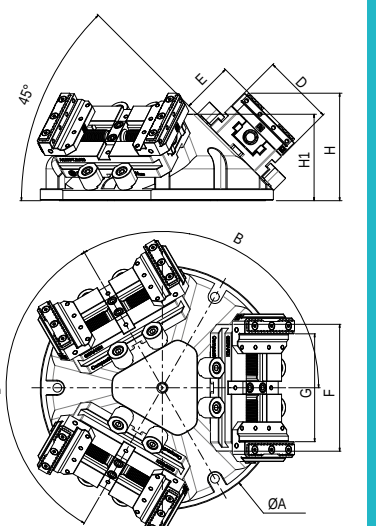
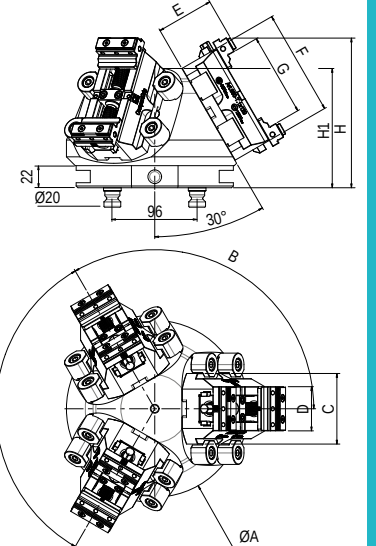
 -
 Art.650 T.3x160/210 - Art.950 T.3x160/210

 ØA
 B
 C
 D
 E
 F
 G
 H
 H1
 kg

 360
 120°
 -
 125
 89
 160
 133
 190,5
 150
 20,8

Cod.

7.64.3H300

 Ideali per Centri a 4 Assi
 Ideal for 4th Axis Centres

 Disponibili altre configurazioni, angolazioni e dimensioni
 Available also others arrangements, dimension and angles

PIASTRE BASE ZERO POINT TONDE ZERO POINT ROUNDED HEAD PLATES

MONTAGGIO CON FLANGIA

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	2 up to 14 kN							
		Hermle C600U		DMG DMU 50 Evo		Mazak Variax 500		Hermule C40U	
		Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
ØA	ØA	280		500		500		420	
B	B	-		380		400		-	
C	C	83		83		83		83	
P	P	-		200		200		200	
P1	P1	-		200		200		200	
N° Zero Point		1		4		4		4	
kg		19	11	61	37	63	38	65	35
Cod.		9.72. P2828S1	9.72. P2828A1	9.72. P5038S4	9.72. P5038A4	9.72. P5040S4	9.72. P5040A4	9.72. P4242S4	9.72. P4242A4

Piastra tonda con Zero Point Art.664 montaggio con flangia
Round head plate with Zero Point Art.664 mounting with flange

Opzione apertura indipendente Zero Point / Zero point independent control option SOVRAPPREZZO / EXTRA PRICE:

MONTAGGIO INCASSATO

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	2 up to 14 kN							
		Hermle C600U		DMG DMU 50 Evo		Mazak Variax 500		Hermule C40U	
		Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
ØA	ØA	280		500		500		420	
B	B	-		380		400		-	
C	C	58		58		58		58	
P	P	-		200 / 250		200 / 250		200	
P1	P1	-		200		200 / 250		200	
N° Zero Point		1		4		4		4	
kg		30	17	67	29	69	31	56	26
Cod.		9.82. P2828S2	9.82. P2828A2	9.82. P5038S4	9.82. P5038A4	9.82. P5040S4	9.82. P5040A4	9.82. P4242S4	9.82. P4242A4

Piastra tonda con Zero Point Art.665 montaggio incassato
Round head plate with Zero Point Art.665 built-in mounting

Opzione apertura indipendente Zero Point / Zero point independent control option SOVRAPPREZZO / EXTRA PRICE:

PIASTRA BASE ROTONDA LISCIA E A RETICOLO - SQUARE SMOOTH AND GRID ROUNDED PLATES

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	2 up to 14 kN							
		Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
ØA	ØA	400		500		630		800	
B	B	-		400		500		630	
C	C	38		38		38		38	
P	P	200		250		300		300	
kg		41	15	59	21	92	33	149	54
Art.62iC Cod.		9.62. IC4032S4	9.62. IC4032A4	9.62. IC4050S4	9.62. IC4060A4	9.62. IC4070S4	9.62. IC4070A4	9.62. IC4080S4	9.62. IC4080A4
Art.62iE Cod.		9.62. IE4032S4	9.62. IE4032A4	9.62. IE4050S4	9.62. IE4060A4	9.62. IE4070S4	9.62. IE4070A4	9.62. IE4080S4	9.62. IE4080A4

Piastra base tonda liscia (Art.62iC) o a reticolo (Art.62iE) con tiranti femmina Art.10A - 10B per cambio rapido Zero Point

Smooth round interfaced plate (Art.62iC) or grid (Art.62iE) with female pull-studs Art.10A - 10B for ZERO POINT quick change

FLANGE MOUNTING

2 up to 14 kN													
DMG DMU 50		Haas UMC 750		Mazak Variax 630		DMG DMU 70 Evo		DMG DMC 635V		DMG DMC 1035V		DMG DMU 80P	
Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
630		630		630		700		790		1000		900	
500		500		500		500		560		560		630	
83		83		83		83		83		83		83	
200 / 250 / 300		200 / 250 / 300		200 / 250 / 300		200 / 300 / 400		200 / 250		200 / 300 / 350		200 / 250	
200 / 250 / 300		200 / 250 / 300		200 / 250 / 300		200 / 300		200 / 250 / 300		200 / 300 / 400		200 / 300 / 400	
4		4		4		4		6		8		6	
85	46	85	46	85	46	94	49	124	68	151	78	149	76
9.72. P6350S4	9.72. P6350A4	9.72. P6350S4	9.72. P6350A4	9.72. P6350S4	9.72. P6350A4	9.72. P7050S4	9.72. P7050A4	9.72. P7956S6	9.72. P7956A6	9.72. P1056S8	9.72. P1056A8	9.72. P9063S6	9.72. P9063A6

BUILT-IN MOUNTING

2 up to 14 kN													
DMG DMU 50		Haas UMC 750		Mazak Variax 630		DMG DMU 70 Evo		DMG DMC 635V		DMG DMC 1035V		DMG DMU 80P	
Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
630		630		630		700		790		1000		900	
500		500		500		500		560		560		630	
58		58		58		58		58		58		58	
200 / 250 / 300		200 / 250 / 300		200 / 250 / 300		200 / 300 / 400		200 / 250		200 / 250 / 350		200 / 250 / 300	
200 / 250 / 300		200 / 250 / 300		200 / 250 / 300		200 / 250 / 300		200 / 300 / 400		200 / 300 / 400		200 / 300 / 400	
4		4		4		4		6		8		6	
103	43	103	43	103	43	116	48	149	63	197	83	188	87
9.82. P6350S4	9.82. P6350A4	9.82. P6350S4	9.82. P6350A4	9.82. P6350S4	9.82. P6350A4	9.82. P7050S4	9.82. P7050A4	9.82. P7956S6	9.82. P7956A6	9.82. P1056S8	9.82. P1056A8	9.82. P9063S6	9.82. P9063A6

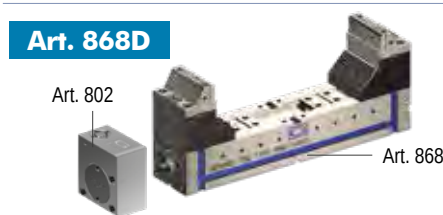
CARTER PER PIASTRE TONDE - ROUNDED PLATES COVER

Tipo (grandezza) Zero-Point Zero-Point type (size)	kN	2 up to 14			
		Steel	Steel	Steel	Steel
ØA	ØA	420	500	630	790
B	B	-	400	500	560
C	C	78	78	78	78
P	P	200	250	300	300
P1	P1	200	250	300	300
kg				-	-
Cod.		9.72.CP42424	9.72.CP50404	9.72.CP63504	9.72.CP79566

Carter in acciaio INOX per piastre tonde interfacciate con Zero Point

Stainless steel round cover for Zero Point interfaced head plates

Tipo (grandezza) morsa / Vise type (size)		1 25 kN		2 25 kN				3 30 kN	
kN									
A	130	230	182	282	382	482		244	344
B	99,5			117				137	
C	70			90				100	
D	232	332	300	400	500	600	400	500	
E	249	349	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

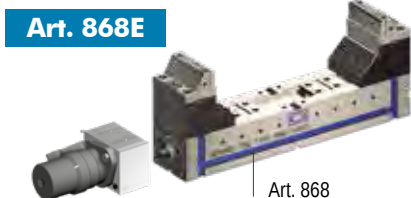


(Art. 868 + 802) Morsa + moltiplicatore di coppia / Vise + torque multiplier

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

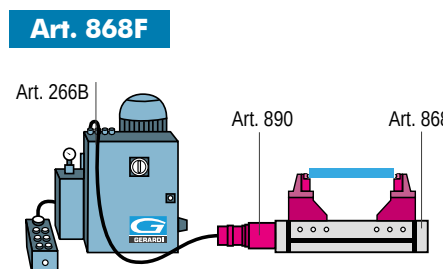
Moltiplicatore di coppia con rinvio angolare - Mechanical with torque multiplier with angular transmission
Chiave dinamometrica Art.357 (Consigliata) - Torque wrench Art.357 (Suggested)

Cod.	5.80.21000	5.80.22000	5.80.23000



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

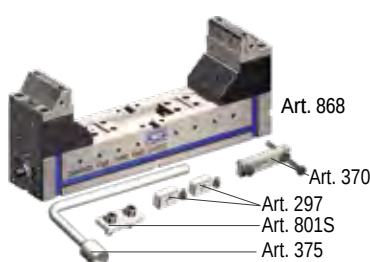
Cod.	5.86.8E120	5.86.8E130	5.86.8E230	5.86.8E240	5.86.8E250	5.86.8E260	5.86.8E340	5.86.8E350



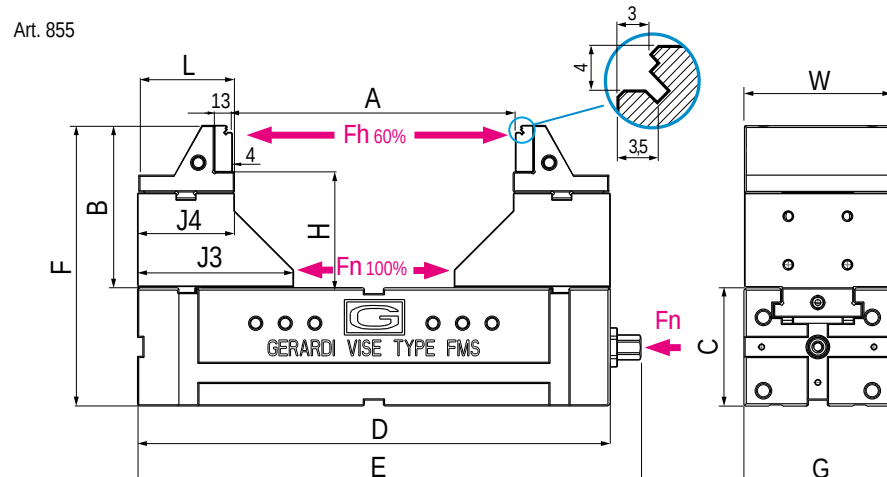
(Art. 868 + 890 + 266B) Morsa + motore idraulico + centralina / Vise + hydraulic motor + power unit

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 per cava da 16 mm Art. 297
■ 1 chiave a pipa Art. 375



Standard equipment:
■ 2 workstops Art. 370
■ 1 pair of positioning key-nuts for 16 mm slot Art. 297
■ 1 box wrench Art. 375



3 30 kN				4 30 kN				5 32 kN			6 32 kN		
A	444	544	644	316	416	516	616	396	496	596	596	696	796
B		137			171				186			246	
C		100			120				140			160	
D	600	700	800	500	600	700	800	600	700	800	800	900	1000
E	625	725	825	525	625	725	825	625	725	825	825	925	1025
F		237			291				326			406	
G		125			145				170			190	
H		98			128				138			180	
L		84			97				107			107	
J3		132			154				169			189	
J4		82			96				106			106	
X		57			64				66			86	
W		124			144				169			189	
kg				-				-			-		
Cod.				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

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

Cod.	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 rivio angolare - Mechanical with torque multiplier with angular transmission

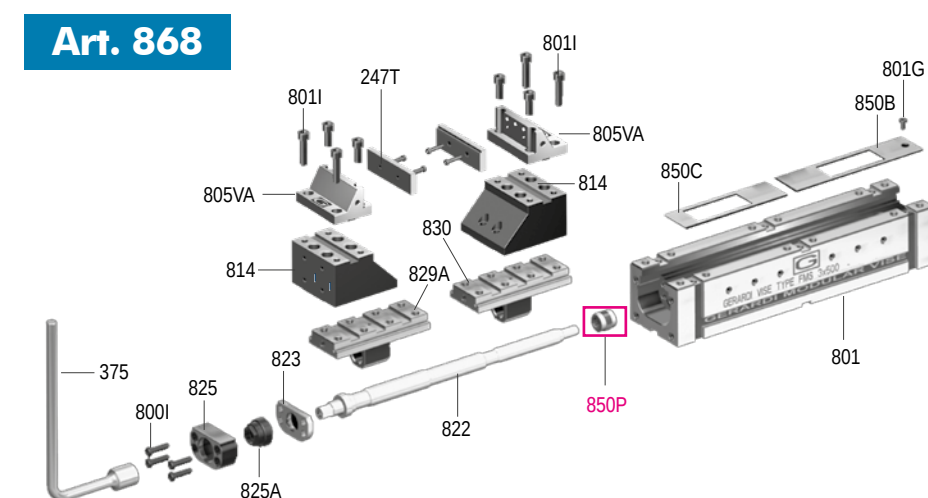
Cod.	5.80.23000	5.80.24000	5.80.25000	5.80.26000

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

Cod.	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

Cod.	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.	Pag.	Art.	Pag.
375	4.35	830	5.52
800I	5.61	850B	5.61
801	5.50	850C	5.61
801G	5.61	850P	5.72
801I	5.61	814	5.56
810J	5.56	805VA	5.35
822	5.53	247T	5.35
823	5.59	-	-
825	5.59	-	-
825A	5.61	-	-
829A	5.52	-	-

Automatic Vises

GRIPMATIC

Morse Automatiche per centri di lavoro automatizzati

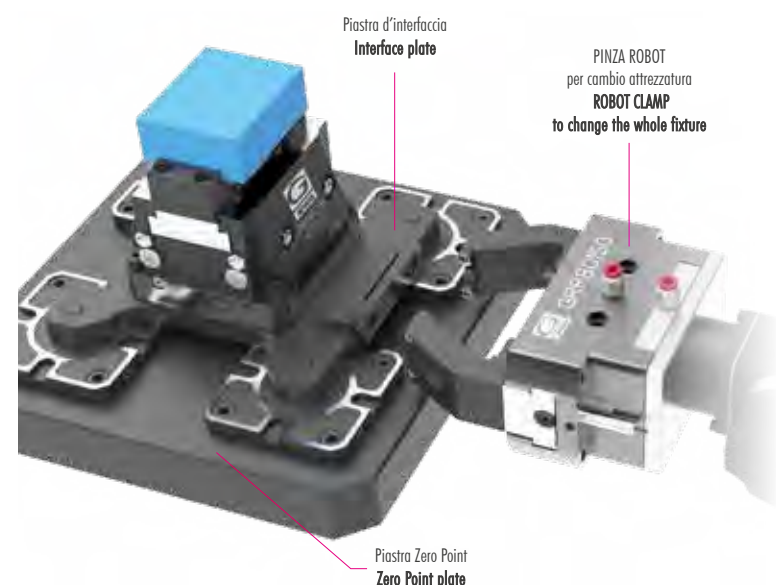
Automatic vises system for automatic machine centre

CARATTERISTICHE & VANTAGGI

- ✓ USURA INESISTENTE
- ✓ RAPIDITA' DEI SERRAGGI
- ✓ PNEUMATICA O IDRAULICA
- ✓ UTILIZZO NON PRESIDATO
- ✓ CONTROLLABILE DA CNC
- ✓ CARICO E SCARICO TRAMITE ROBOT
- ✓ PRECISIONI $\pm 0,02$ mm
- ✓ RIGIDITA' & SICUREZZA
- ✓ DESIGN COMPATTO E MANEGGEVOLEZZA
- ✓ AUTOCENTRANTI

TECHNICAL FEATURES & ADVANTAGES

- ✓ NO WEAR
- ✓ QUICK CLAMPING
- ✓ PNEUMATIC OR HYDRAULIC
- ✓ UNATTENDED USE POSSIBLE
- ✓ CNC MANAGEABLE
- ✓ WORKPIECE LOAD & DOWNLOAD BY ROBOT
- ✓ HIGHEST ACCURACIES $\pm 0,02$ mm
- ✓ RIGIDITY & SAFETY
- ✓ SELF-CENTERING



Precisione / Accuracy
 $\pm 0,02$ mm



Durezza / Hardened
HRC 58 $\pm$ 2



PNEUMATICA A DOPPIO EFFETTO O IDRAULICA
PNEUMATIC DOUBLE EFFECT OR HYDRAULIC



Totamente automatica Fully Automatic

Predisposizione per la completa gestione tramite CNC, automatizzando i processi di serraggio e incrementando così la produttività della vostra officina. Utilizzo non presidiato, Comandabile dal CNC. Ideale per carico e scarico tramite robot.

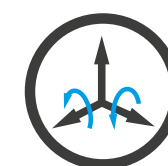
Configurated for the complete handling by CNC, to automate the clamping process and increasing the productivity of your company. Unattended use possible, CNC manageable, ideal for automativ workpiece loading by robot.



GripMatic

Le Automatiche & Autocentranti
The Automatic & Self-centering

Art. 670 PN | ID



SCAN IT TO WATCH THE
VIDEO PRESENTATION



*Morse Automatiche
ideali per centri a 5 assi*
*Automatic Vises
ideal for 5 axis machining centres*

Ganasce e piastre ganasce - Jaws and jaw plates

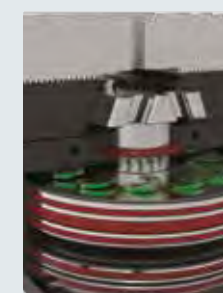


ART. 671B

ART. 671A

ART. 671C

Ganasce & Piastre ganasce per morse GripMatic
Jaws & Jaw plates for GripMatic vises



Forza di serraggio Clamping Force

Art.670	PN	ID
T.2	7 kN	19 kN
T.3	14,4 kN	37,5 kN
T.4	16,9 kN	47 kN



Predisposizione Zero Point Zero Point Ready

Predisposizione per il posizionamento rapido e preciso della morsa GripMatic tramite piastra Zero Point (anche in automatico).

Set-up for the quick and safe positioning of the GripMatic vise through Zero Point plate (also automatic).

Tipo (grandezza) morsa / Vise (type) size		2	3	4
kN		7	14,4	16,9
Art. 670PN	Stroke Art.671A/B	A	6,4 / 6,9	8,5 / 10,5
		A1	88,9	130,2
		B	25	30
		C	80	105
		D	108	166
		E	52	78
		G	10	12
		H	90	140
		W	74	99
		kg	6,7	20
		Cod.	7.67.0PN20	7.67.0PN30
				7.67.0PN40

Modulo base morsa
autocentrante pneumatica
MAX 10 BAR



Self-centering vise
base module pneumatic
MAX 10 BAR

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !

Art. 671A		Cod.	7.67.1A200	7.67.1A300	7.67.1A400
Art. 671B		Cod.	7.67.1B200	7.67.1B300	7.67.1B400
Art. 671C		Cod.	7.67.1C200	7.67.1C300	7.67.1C400
Art. 243		Cod.	1.65.17000	1.65.27000	1.65.37000
Art. 245		Cod.	4.24.51000	4.24.52000	4.24.53000
Art. 670G		H	18	25	30
		Cod.	7.67.0G200	7.67.0G300	7.67.0G400

Dotazione standard:

- 1 perno di centraggio Art.670P*
- N°4 viti calibrate a colletto Art.83
- Valvola di non ritorno Art. PN16
- N°2 raccordi cilindrici maschi Art.PN04

*(Indicare dimensione in fase di ordine)



Art. PN04
Art. 83
Art. 670P
Art. PN16

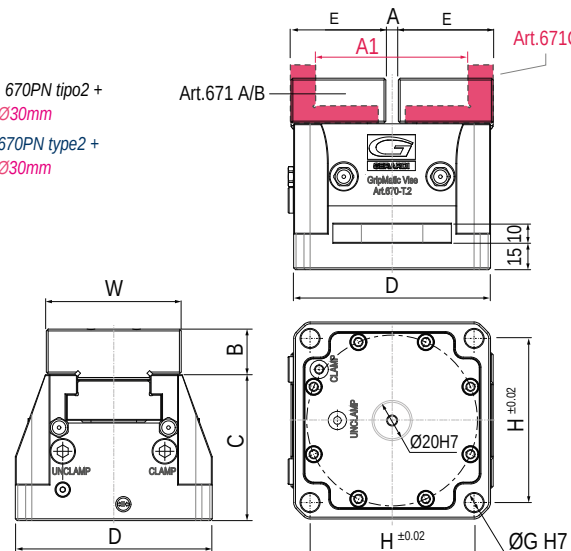
Standard equipment:

- 1 centering pin Art.670P*
- N. 4 shoulder screw Art. 83
- No return valve Art.PN16
- N.2 Straight male adaptor Art.PN04

*(Dimension to be advised at order)

Art. 670PN

Esempio di ordine: Art. 670PN tipo2 +
2x Art.671A + Art.670P Ø30mm
Example of order: Art. 670PN type2 +
2x Art.671A + Art.650G Ø30mm



Tipo (grandezza) morsa / Vise (type) size		2	3	4
kN		19	37,5	47
Art. 670ID	Stroke Art.671A/B	A	6,4 / 6,9	8,5 / 10,5
		A1	88,9	130,2
		B	25	30
		C	80	105
		D	108	166
		E	52	78
		G	10	12
		H	90	140
		W	74	99
		kg	6,7	20
		Cod.	7.67.0ID20	7.67.0ID30
				7.67.0ID40

Modulo base morsa autocentrante idraulica
MAX 30 BAR* (tipo 4, MAX 25 BAR)
*Presto disponibili anche 60 o 350 BAR



Self-centering vise
base module
hydraulic MAX 30 BAR*
(Type 4, MAX 25 BAR)
Soon available 60 or 350 BAR

SUGGERITA APERTURA PNEUMATICA
PNEUMATIC OPENING SUGGESTED

UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art. 671A		Cod.	7.67.1A200	7.67.1A300	7.67.1A400
Art. 671B		Cod.	7.67.1B200	7.67.1B300	7.67.1B400
Art. 671C		Cod.	7.67.1C200	7.67.1C300	7.67.1C400
Art. 243		Cod.	1.65.17000	1.65.27000	1.65.37000
Art. 245		Cod.	4.24.51000	4.24.52000	4.24.53000
Art. 670G		H	18	25	30
		Cod.	7.67.0G200	7.67.0G300	7.67.0G400

Dotazione standard:

- 1 perno di centraggio Art.670P*
- N°4 viti calibrate a colletto Art.83
- N°2 Niplon

*(Indicare dimensione in fase di ordine)



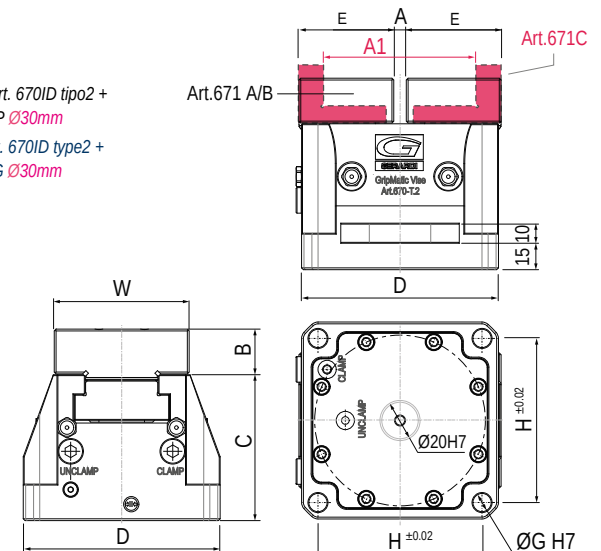
Standard equipment:

- 1 centering pin Art.640P*
- N. 4 shoulder screw Art. 83
- N.2 Niplon

*(Dimension to be advised at order)

Art. 670ID

Esempio di ordine: Art. 670ID tipo2 +
2x Art.671A + Art.670P Ø30mm
Example of order: Art. 670ID type2 +
2x Art.671A + Art.650G Ø30mm



PIASTRE DI INTERFACCIA PER MORSE GRIPMATIC INTERFACED PLATES FOR GRIPMATIC VISES

**NEW
2021**

Tipo (grandezza) morsa / Vise (type) size	kN	2 5,1 - 15	3 16 - 32	4 22 - 43
Art. 670CP SEMI AUTOMATICA SEMI-AUTOMATIC	A	90	140	170
	B	90	140	170
	C	-	38	-
	D	200	200	200
	E	200	200	200
	F	250	250	250
	G	250	250	250
	Cod.	7.67.0CP20	7.67.0CP30	7.67.0CP40

Piastra di interfaccia per morsa GripMatic Art.670 PN semiautomatica con innesto aria tramite attacco rapido e gestione del sistema manuale tramite selettore



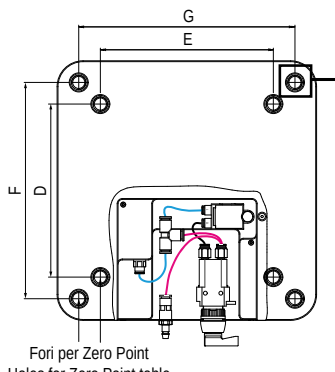
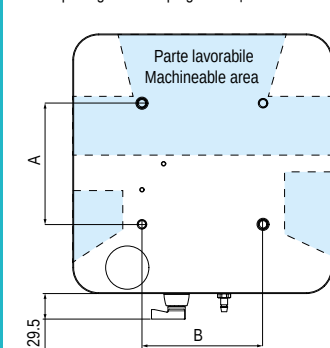
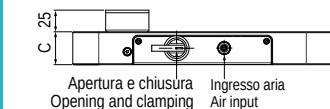
Art.670PN

Interface plate for GripMatic vise Art.670PN semi-automatic quick coupling air input and manual system control through a selector.

Art.670CP



Selettore - selector



Predisposizione Zero Point
Zero Point ready



Esempio applicativo con azionamento esterno
(Pedale / joystick) su richiesta allo stesso prezzo.
Application example with external activation (pedal/ joystick) on request at the same price

PIASTRE DI INTERFACCIA PERSONALIZZATE PER MORSE GRIPMATIC CUSTOMIZED INTERFACED PLATES FOR GRIPMATIC VISES

**NEW
2021**

Tipo (grandezza) morsa / Vise (type) size	kN	2 5,1 - 15	3 16 - 32	4 22 - 43
Art. 670AP AUTOMATICA AUTOMATIC	A	90	140	170
	B	90	140	170
	C	-	38	-
	D	200	200	200
	E	200	200	200
	F	250	250	250
	G	250	250	250
	Cod.	7.67.0AP20	7.67.0AP30	7.67.0AP40

Piastra di interfaccia per morsa GripMatic Art.670PN automatica con innesto aria/olio tramite la tavola della macchina e gestibile direttamente dal CNC. Piastra completamente personalizzabile in base alle funzionalità della macchina utensile (comando di presenza pezzo e pulizia)



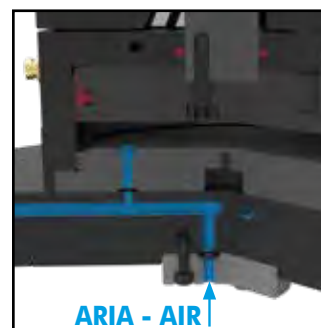
Art.670ID/PN

Art.670AP



Interface plate for GripMatic vise Art.670PN automatic with air or oil input through the machine table and possible to be controlled directly by the CNC. This plate can be fully tailored according the characteristics of the machine (workpiece positioning check and cleanliness)

**PIASTRA COMPLETAMENTE PERSONALIZZABILE !
COMPLETE CUSTOMIZABLE PLATE !**



Ingresso diretto ARIA - Direct AIR input



Esempio applicativo - Applicative example

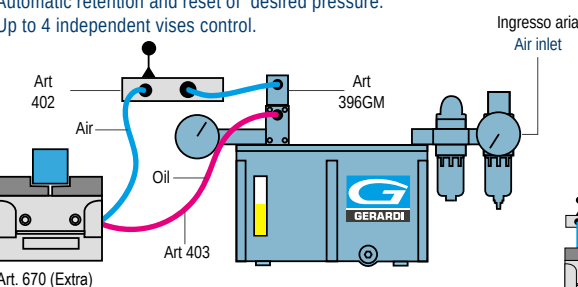
CENTRALINE PNEUMOIDRAULICHE PER MORSE GRIPMATIC PNEUMOHYDRAULIC POWER UNIT FOR GRIPMATIC VISES

**NEW
2021**

Tipo (grandezza) morsa / Vise (type) size	kN	2 5,1 - 15	3 16 - 32	4 22 - 43
Art.394 GM COMANDO PNEUMATICO PNEUMATIC CONTROL	A	90	140	170
	B	90	140	170
	C	-	38	-
	D	200	200	200
	E	200	200	200
	F	250	250	250
	G	250	250	250
	Cod.	7.39.4GM331	7.39.4GM332	7.39.4GM333
		7.39.4GM334		

Centralina a comando pneumatico remoto. Pressione max 33bar. Con mantenimento e ripristino automatico della pressione desiderata. Per il controllo da 1 a 4 morse indipendenti.

Power unit with remote pneumatic control. Max pression 33bar. Automatic retention and reset of desired pressure. Up to 4 independent vises control.



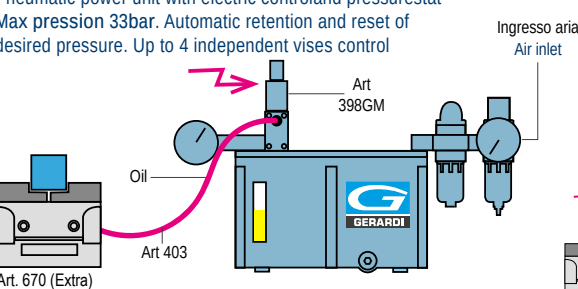
Art. 670 (Extra)

Entrata ARIA 7bar, Uscita OLIO Max 33bar - AIR inlet 7bar, output OIL Max 33bar

Tipo (grandezza) morsa / Vise (type) size	kN	2 5,1 - 15	3 16 - 32	4 22 - 43
Art.395 GM COMANDO ELETTRICO ELECTRIC CONTROL	A	90	140	170
	B	90	140	170
	C	-	38	-
	D	200	200	200
	E	200	200	200
	F	250	250	250
	G	250	250	250
	Cod.	7.39.5GM331	7.39.5GM332	7.39.5GM333
		7.39.5GM334		

Centralina a comando pneumatico con azionamento elettrico e pressostato. Pressione max 33bar. Con mantenimento e ripristino automatico della pressione desiderata. Per il controllo da 1 a 4 morse indipendenti

Pneumatic power unit with electric control and pressurestat. Max pression 33bar. Automatic retention and reset of desired pressure. Up to 4 independent vises control



Art. 670 (Extra)

Entrata ARIA 7bar, Uscita OLIO Max 33bar - AIR inlet 7bar, output OIL Max 33bar

ACCESSORI E RICAMBI / SPARE PARTS

Art. 403

Tubo termoplastico completo di attacco rapido Art. 270A (m 1)
Thermoplastic pipe complete with rapid connection Art. 270A (m 1)

Cod. 4.40.30000

Per ogni metro extra / For each extra meter:

Art. 402

Distributore leva angolare, 2 vie
Angular valve, 2 ways

Cod. 9.40.20000

Art. 400

Pedale bistabile
Two positions foot pedal

Cod. 4.40.00000

Art. 396 GM

Blocco modulare per comando pneumatico aggiuntivo per ogni morsa extra

Modular block for pneumatic control for each extra vise

Cod. 4.39.6GM00

Art. 398 GM

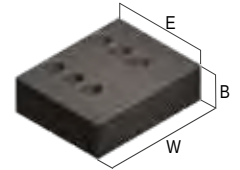
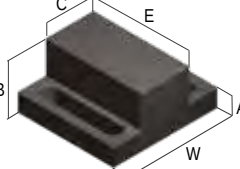
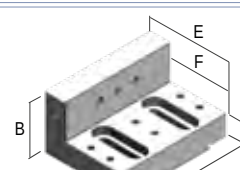
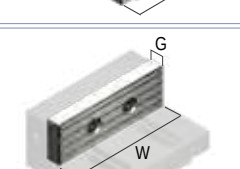
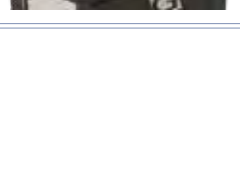
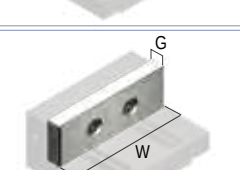
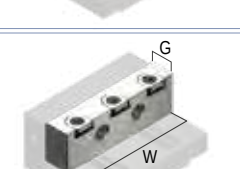
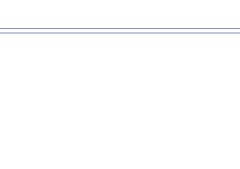
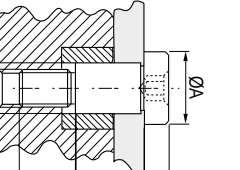
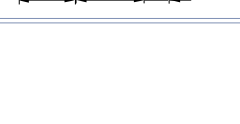
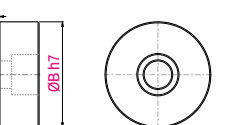
Blocco modulare per comando elettrico (con pressostato) aggiuntivo per ogni morsa extra

Modular block for electric control (with pressurestat) for each extra vise

Cod. 4.39.8GM00

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

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* Ganasca mobile lavorabile Soft movable jaw Materiale temprabile 20MnCr5 Hardenable material 20MnCr5			<table> <tr><td>W</td><td>74</td><td>99</td><td>124</td></tr> <tr><td>B</td><td>25</td><td>30</td><td>35</td></tr> <tr><td>E</td><td>49</td><td>79</td><td>96</td></tr> <tr><td>Cod.</td><td>7.67.1A200</td><td>7.67.1A300</td><td>7.67.1A400</td></tr> </table>	W	74	99	124	B	25	30	35	E	49	79	96	Cod.	7.67.1A200	7.67.1A300	7.67.1A400												
W	74	99	124																												
B	25	30	35																												
E	49	79	96																												
Cod.	7.67.1A200	7.67.1A300	7.67.1A400																												
Art. 671B* Ganasca mobile lavorabile ridotta Soft narrow movable jaw Materiale temprabile 20MnCr5 Hardenable material 20MnCr5			<table> <tr><td>W</td><td>40</td><td>65</td><td>81</td></tr> <tr><td>A</td><td>10</td><td>10</td><td>15</td></tr> <tr><td>B</td><td>25</td><td>30</td><td>35</td></tr> <tr><td>C</td><td>15</td><td>28</td><td>38</td></tr> <tr><td>E</td><td>40</td><td>65</td><td>81</td></tr> <tr><td>Cod.</td><td>7.67.1B200</td><td>7.67.1B300</td><td>7.67.1B400</td></tr> </table>	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				
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* Ganasca mobile predisposta per piastre ganasce standard ridotte Movable jaw for narrow standard jaw plates * Viti per fissaggio a richiesta Fixing screws on request			<table> <tr><td>W</td><td>74</td><td>94</td><td>124</td></tr> <tr><td>A</td><td>13,5</td><td>18</td><td>18</td></tr> <tr><td>B</td><td>38</td><td>48</td><td>58</td></tr> <tr><td>E</td><td>45</td><td>70</td><td>87</td></tr> <tr><td>F</td><td>30</td><td>51</td><td>62</td></tr> <tr><td>Cod.</td><td>7.67.1C200</td><td>7.67.1C300</td><td>7.67.1C400</td></tr> </table>	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				
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 ganasca piana rigata temprata Hardened grooved straight jaw plate * Viti per fissaggio a richiesta Fixing screws on request			<table> <tr><td>W</td><td>74</td><td>94</td><td>124</td></tr> <tr><td>G</td><td>19</td><td>19</td><td>19</td></tr> <tr><td>Cod.</td><td>1.65.17000</td><td>1.65.27000</td><td>1.65.37000</td></tr> </table>	W	74	94	124	G	19	19	19	Cod.	1.65.17000	1.65.27000	1.65.37000																
W	74	94	124																												
G	19	19	19																												
Cod.	1.65.17000	1.65.27000	1.65.37000																												
Art. 245* Piastra ganasca piana liscia temprata Hardened smooth straight jaw plate * Viti per fissaggio a richiesta Fixing screws on request			<table> <tr><td>W</td><td>74</td><td>94</td><td>124</td></tr> <tr><td>G</td><td>19</td><td>19</td><td>19</td></tr> <tr><td>Cod.</td><td>4.24.51000</td><td>4.24.52000</td><td>4.24.53000</td></tr> </table>	W	74	94	124	G	19	19	19	Cod.	4.24.51000	4.24.52000	4.24.53000																
W	74	94	124																												
G	19	19	19																												
Cod.	4.24.51000	4.24.52000	4.24.53000																												
Art. 247G* Piastra piana con inserti GRIP Straight plate with GRIP inserts * Viti per fissaggio a richiesta Fixing screws on request			<table> <tr><td>W</td><td>74</td><td>94</td><td>124</td></tr> <tr><td>G</td><td>20</td><td>20</td><td>20</td></tr> <tr><td>Cod.</td><td>1.24.7G100</td><td>1.24.7G200</td><td>1.24.7G300</td></tr> </table>	W	74	94	124	G	20	20	20	Cod.	1.24.7G100	1.24.7G200	1.24.7G300																
W	74	94	124																												
G	20	20	20																												
Cod.	1.24.7G100	1.24.7G200	1.24.7G300																												
Art. PN16 Valvola direzionale di non ritorno - 1/8" Gas Unidirectional check valve - 1/8" Gas			<table> <tr><td>Cod.</td><td>9.PN.16000</td><td></td><td></td></tr> </table>	Cod.	9.PN.16000																										
Cod.	9.PN.16000																														
Art. PN22 Raccordo a Y Ø6 - Ø8 Y adaptor Ø6 - Ø8			<table> <tr><td>Cod.</td><td>9.PN.22006/8</td><td></td><td></td></tr> </table>	Cod.	9.PN.22006/8																										
Cod.	9.PN.22006/8																														
Art. 83 Vite Calibrata a colletto Shoulder calibrated screw			<table> <tr><td>A</td><td>16</td><td>18</td><td>24</td></tr> <tr><td>B</td><td>M8</td><td>M10</td><td>M12</td></tr> <tr><td>C</td><td>10h7</td><td>12h7</td><td>16h7</td></tr> <tr><td>D</td><td>15</td><td>15</td><td>18</td></tr> <tr><td>E</td><td>7</td><td>8</td><td>11</td></tr> <tr><td>X</td><td>30</td><td>40</td><td>45</td></tr> <tr><td>Cod.</td><td>8.83.10300</td><td>8.83.12400</td><td>8.83.16450</td></tr> </table>	A	16	18	24	B	M8	M10	M12	C	10h7	12h7	16h7	D	15	15	18	E	7	8	11	X	30	40	45	Cod.	8.83.10300	8.83.12400	8.83.16450
A	16	18	24																												
B	M8	M10	M12																												
C	10h7	12h7	16h7																												
D	15	15	18																												
E	7	8	11																												
X	30	40	45																												
Cod.	8.83.10300	8.83.12400	8.83.16450																												
Art. 670IDL Adattatore per innesto diretto Direct input adaptor			<table> <tr><td>Cod.</td><td>7.67.0IDL20</td><td>7.67.0IDL30</td><td></td></tr> </table>	Cod.	7.67.0IDL20	7.67.0IDL30																									
Cod.	7.67.0IDL20	7.67.0IDL30																													
Art. 670P Perno di centraggio Straight pin			<table> <tr><td>ØB</td><td>20 - 30 - 38,1 - 50 - 50,8</td><td></td><td></td></tr> <tr><td>Cod.</td><td>7.67.0P3000</td><td></td><td></td></tr> </table>	ØB	20 - 30 - 38,1 - 50 - 50,8			Cod.	7.67.0P3000																						
ØB	20 - 30 - 38,1 - 50 - 50,8																														
Cod.	7.67.0P3000																														

Specificare sempre quota B - Specify always B dimension

Clamping system

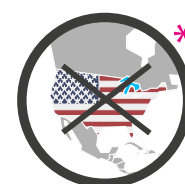
DOVE TAIL

Sistema a Coda di Rondine per centri a 5 assi
Irreversible Dove Tail system for 5th axis centres

Serraggio ad incastro e rilascio graduale
Irreversible clamping and gradual unclamping

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 ad incastro irreversibile. La molla all'interno permette un rilascio graduale del tassello di bloccaggio.

The workpiece is clamped through a Dovetail nut that exploits the lever effect of the main screw and ensures an effective clamping. The internal spring allows a gradual release of the blocking nut.


Art. 950

*NON DISPONIBILE PER IL MERCATO AMERICANO
NOT AVAILABLE FOR AMERICAN MARKET


Sistema irreversibile
Irreversible system

Ogni particolare può essere serrato tramite il sistema a Coda di Rondine pre-lavorando la faccia inferiore, creando una sagoma dell'altezza di 3mm e un angolo di 60°. Il sistema a coda di rondine è un sistema ad incastro irreversibile che garantisce un'estrema rigidità della presa pezzo durante tutti i tipi di lavorazione.

Each part can be clamped through Dove Tail system simply machining in advance the lower side, by creating a 3mm high template and a 60° angle. Dove Tail system is an irreversible interlocking system which guarantees an exceptional rigidity of the clamping during all types of machining.

Il sistema ad incastro irreversibile DOVE TAIL grazie alla sua versatilità e conformazione che garantisce una rigidità estrema consente un'ottimizzazione dei tempi di attrezzaggio e di lavorazione dei particolari

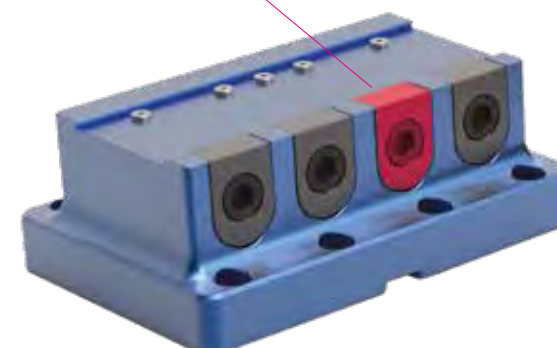
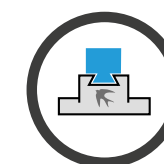
Thanks to its versatility and shape, which guarantees an exceptional rigidity, our Irreversible DOVE TAIL system also ensures an optimisation of set-up and machining times.

Insuperabile per particolari di dimensioni ridotte
Unbeatable to clamp small workpieces

SCAN IT TO WATCH THE



VIDEO PRESENTATION


Rialzo Piramidale
Pyramidal riser

Il supporto piramidale speciale consente di montare 4 sistemi a coda di rondine contemporaneamente inclinati a 30° incrementando così lo spazio di lavoro e le possibilità di lavorazione e riducendo altresì i tempi morti.

The pyramidal riser allows the simultaneous mounting of 4 Dove tail systems inclined at 30° thus increasing the working space, widening the machining possibilities and also reducing the dead times.



SISTEMA A CODA DI RONDINE DOVE TAIL FIXTURES

Art.690

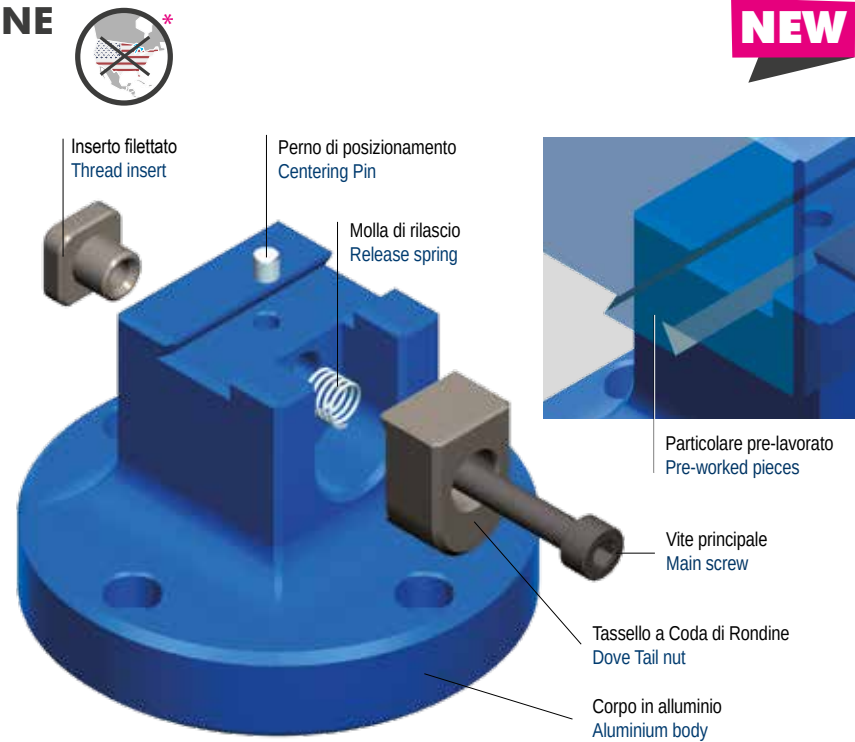
Il sistema a Coda di Rondine è progettato specificatamente per le lavorazioni su centri a 5 assi.

Grazie alla sua versatilità e conformazione offre un'ottimizzazione dei tempi di attrezzaggio e di lavorazione dei particolari.

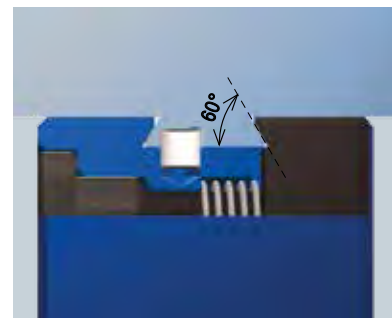
Il sistema Coda di Rondine è compatibile con l'ampia gamma di attrezzature Gerardi, in particolare con il sistema Zero Point e tavole a cambio rapido ed è possibile applicarlo sui più conosciuti centri di lavoro al mondo.

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 in especially with Zero Point systems and with quick change tables and it is possible to use it on the worldwide most popular Machine Centers.



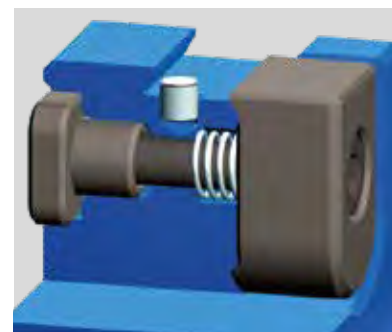
COME SERRARE UN PARTICOLARE CON IL SISTEMA A CODA DI RONDINE HOW TO CLAMP WORKPIECES WITH DOVE TAIL FIXTURE



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°.

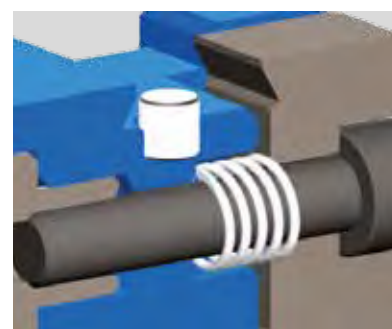
Each workpiece can be clamped on the Dove Tail system machining firstly the lower face through the proper milling cutter in order to create a 3mm height shape with a 60° angle.



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

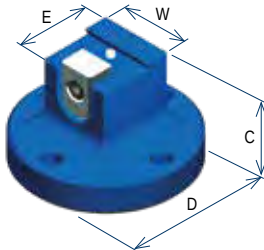
Il particolare da lavorare viene serrato mediante il tassello a Coda di Rondine, che sfruttando l'effetto leva generato dalla vite principale assicura un'efficace chiusura. La molla all'interno permette un rilascio graduale del tassello di bloccaggio.

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

Tipo (grandezza) - (type) size (inch)

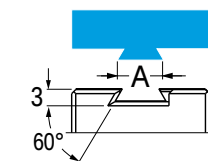
Grandezza coda di rondine - Dove tail dimension

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	

Art.690

SINGOLO - SINGLE

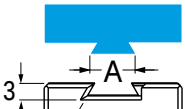
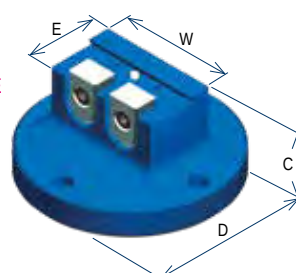
Tipo / Type 3



*NON DISPONIBILE PER IL MERCATO AMERICANO - *NOT AVAILABLE FOR U.S. MARKET

Tipo (grandezza) - (type) size (inch)

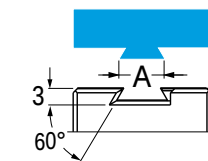
Grandezza coda di rondine - Dove tail dimension

Grandezza coda di rondine - Dove tail dimension		A	7,14	9,53	12,7	19,5	38,1	57,15
Art.690 DOPPIO - 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		
								

Art.690

DOPPIO - DOUBLE

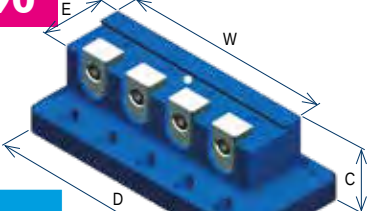
Tipo / Type 3



*NON DISPONIBILE PER IL MERCATO AMERICANO - *NOT AVAILABLE FOR U.S. MARKET

Tipo (grandezza) - (type) size (inch)

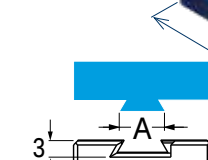
Grandezza coda di rondine - Dove tail dimension

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	

Art.690

MULTIPLIO
MULTIPLE

Tipo / Type 3



*NON DISPONIBILE PER IL MERCATO AMERICANO - *NOT AVAILABLE FOR U.S. MARKET

Art.690G

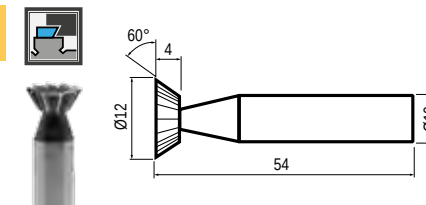
Gruppo di serraggio completo per sistema a coda di rondine
Complete clamping kit for Dove tail System



*NON DISPONIBILE PER IL MERCATO AMERICANO - *NOT AVAILABLE FOR U.S. MARKET

Art.690DTF

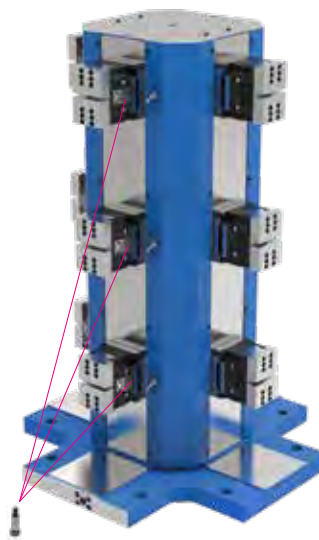
Utensile fresa per realizzare la base del particolare da bloccare
Milling tool for working the base of the workpiece to clamp



	1	2	3	4	5	6
Cod.	12.690.G001	12.690.G002	12.690.G003	12.690.G004	12.690.G005	12.690.G006

PREDISPOSIZIONE e MONTAGGIO MORSE su SPALLE LAVORATE

TOMBSTONES SET-UP and VISES MOUNTING on 2 SIDE MACHINED TOMBSTONES

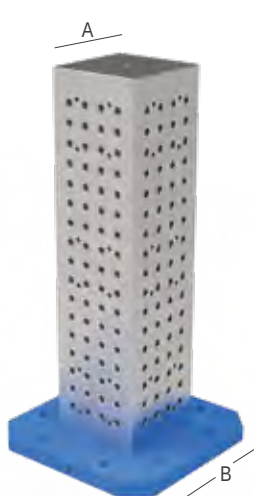
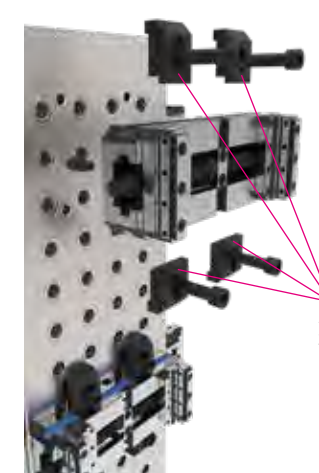
Cubo lavorato Art.57C Machined cube Art.57C	Tipo di morsa Vise type	Predisposizione e montaggio* Set-up & Mounting*	Cubo con morse Cube with vises
Cod. 8.57.C00140 Dim. A=300 / B=630 / E=150 / H=950 	Art.670 Type 2 + 2x Art.671A 	Per morsa / each vise  Importo per lavorazioni necessarie per predisporre ogni faccia del cubo e montaggio più allineamento di ogni morsa. Amount needed for the set-up of each side and mounting + alignment of each vise on it.	
	n°morse Vises n° x 12		

* Predisposizione lato cubo, montaggio ed allineamento morse incluso di viti, chiavette, staffe e quant'altro necessario.
Faces set-up, vises mounting including screws, keyways, holding clamps and all the necessary equipment.

Certificato di collaudo
Certificate test

MONTAGGIO e ALLINEAMENTO MORSE su CUBI a RETICOLO

ALIGNEMENT and VISES MOUNTING on GRID TOMBSTONES

Cubo a reticolo Art.53F Grinded tombstone Art.53F	Tipo di morsa Vise type	Montaggio e allineamento* Mounting and alignment*	Cubo con morse Cube with vises
Cod. 8.53.F00107 Dim. A=250 / B=500 / H=1000 	Art.650 Tipo 2x240 	Per morsa / each vise 	
	n°morse Vises n° x 12		

* Montaggio ed allineamento morse incluso di viti, chiavette, staffe e quant'altro necessario.
Vises mounting and alignment including screws, keyways, holding clamps and all the necessary equipment.

Certificato di collaudo
Certificate test

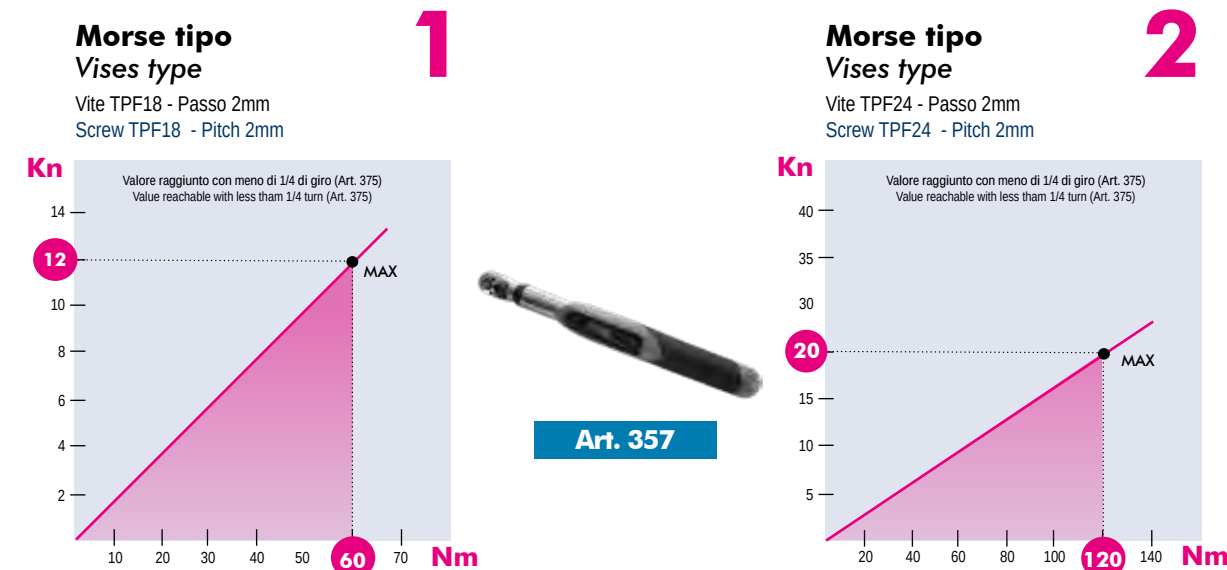
Diagrammi serraggio / Clamping diagrams

Multitasking

Diagrammi di serraggio meccanico con chiave dinamometrica

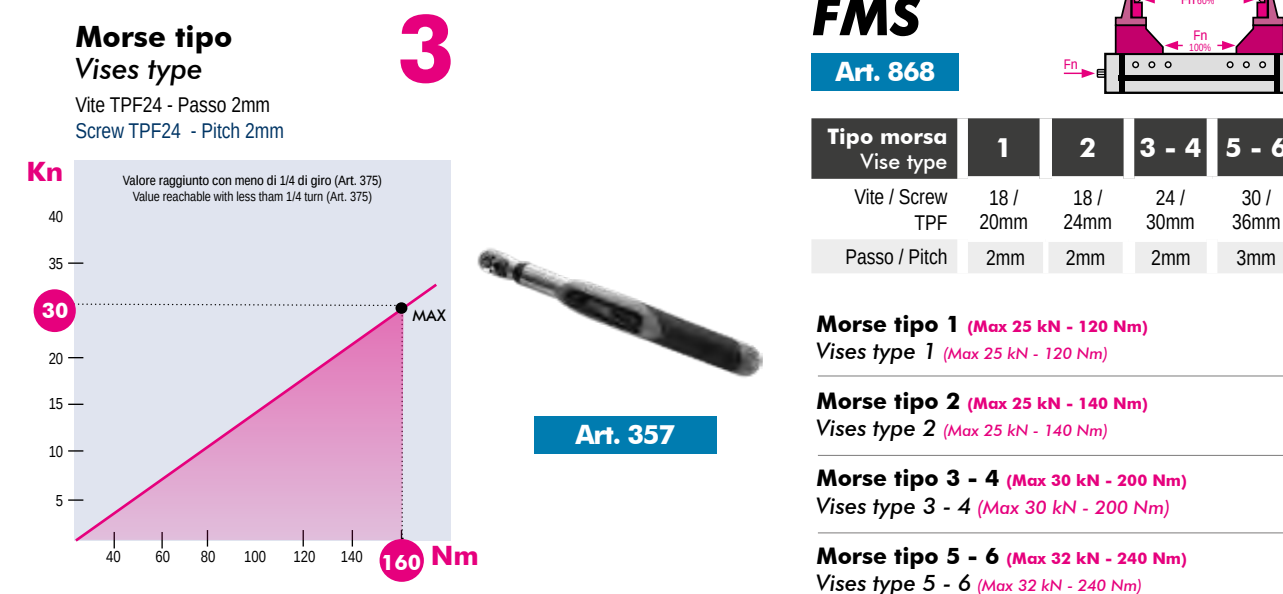
Mechanical clamping diagrams with torque wrench

Art. 357



Gruppi di serraggio meccanici / Mechanical clamping devices

I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con le morse di varia grandezza (da 1 a 3), in funzione del momento applicato
The following diagrams give the clamping force that can be obtained with each vise type (size 1 to 3) depending on the torque



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 di serraggio / Clamping diagrams

CompactGrip

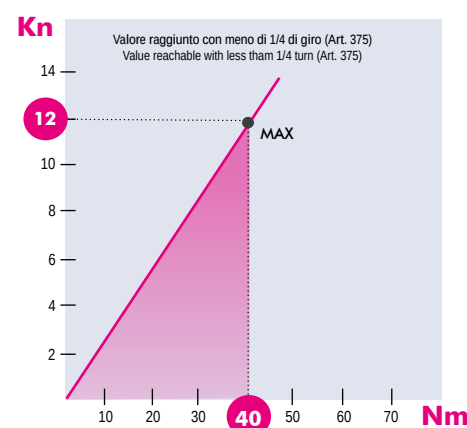
Diagrammi di serraggio meccanico con chiave dinamometrica

Mechanical clamping diagrams with torque wrench

Art. 357

Morse tipo Vises type

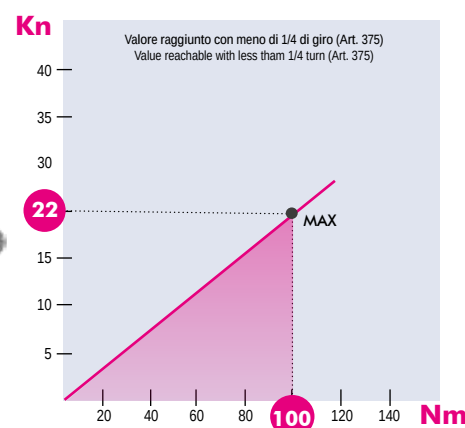
Vite TPF14 - Passo 2mm
Screw TPF14 - Pitch 2mm



1

Morse tipo Vises type

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



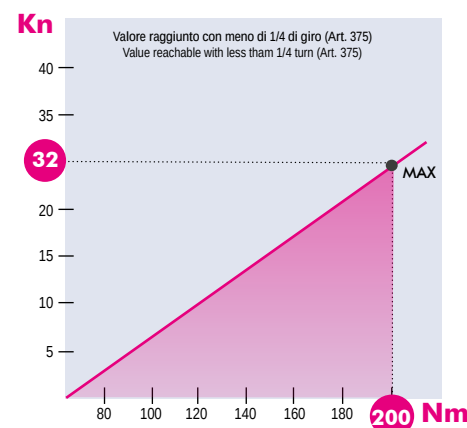
2

Gruppi di serraggio meccanici / Mechanical clamping devices

I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con le morse di varia grandezza (da 1 a 3), in funzione del momento applicato
The following diagrams give the clamping force that can be obtained with each vise type (size 1 to 3) depending on the torque

Morse tipo Vises type

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



3

Diagrammi di serraggio / Clamping diagrams

GripMatic

Diagrammi di serraggio pneumatico/idraulico

Pneumatic/hydraulic clamping diagrams

● Valore massimo consigliato (ARIA)
● Max suggested value (OIL)

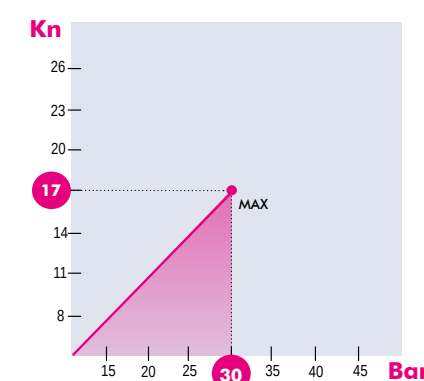
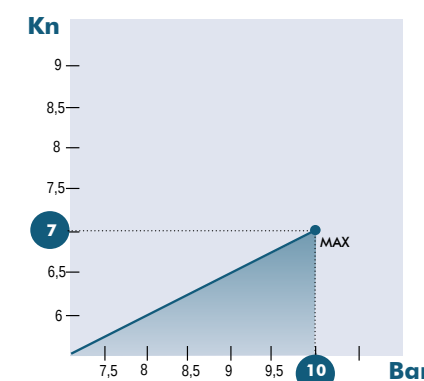
I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con le morse di varia grandezza (da 2 a 4). In funzione della pressione dei fluidi (aria e olio).
The following diagrams give the clamping force that can be obtained with each vise type (size 2 to 4) as a function of the fluid pressure (air or oil).

Morse tipo Vises type

Pistone Ø85mm -
Superficie utile 51,8mm²
Hydraulic cylinder Ø85mm
Effective surface 51,8mm²

2

(1 bar = 14,5 psi)

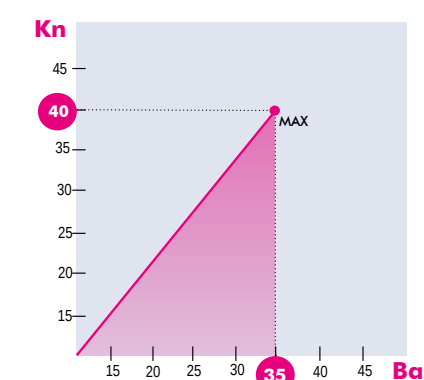
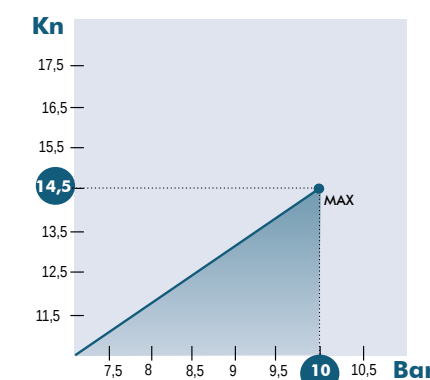


Morse tipo Vises type

Pistone Ø135mm -
uperficie utile 132,3mm²
Hydraulic cylinder Ø135mm -
Effective surface 132,3mm²

3

(1 bar = 14,5 psi)

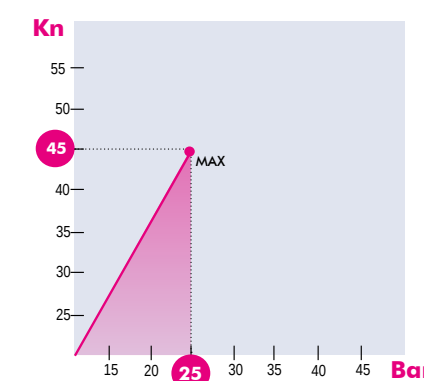
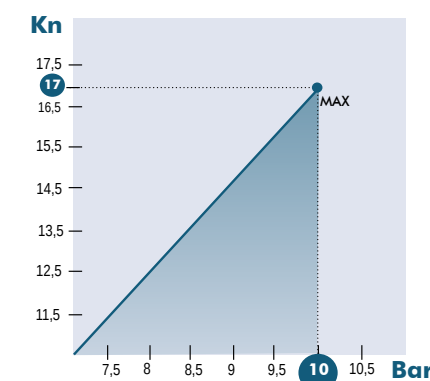


Morse tipo Vises type

Pistone Ø170mm
Superficie utile 209,5mm²
Hydraulic cylinder Ø170mm
Effective surface 209,5mm²

4

(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.

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MORSE MULTITASKING

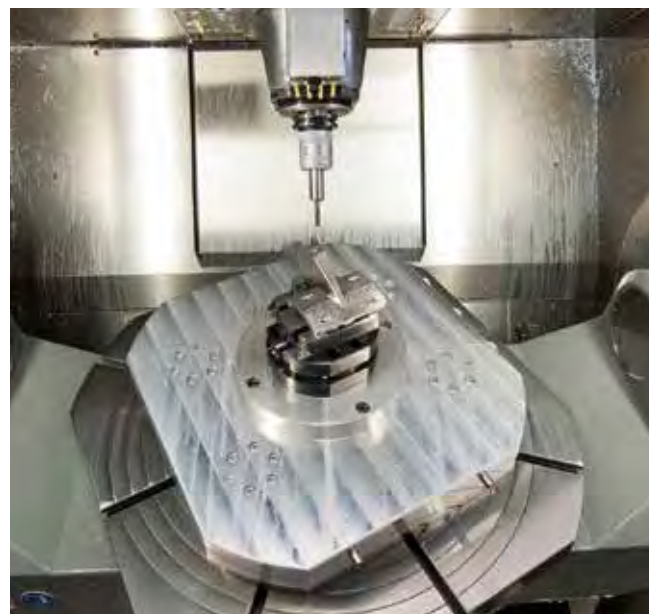
MULTITASKING VISES



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