

*For 5th axis  
machining centres!*

## **MULTITASKING**

**Morse / Vises**

**INDICE - INDEX**

pages		pages		pages		pages		pages	
Art.	7.	Art.	7.	Art.	7.	Art.	7.	Art.	7.
62K	17 - 31	650A	24 - 25	690	50 - 51				
62i	38 - 39	650B	24	690DTF	29 - 51				
62iE	38 - 39	650BM	28	690G	51				
63	24 - 25	650C	24	802	40 - 41				
64	24 - 25	650CM	28	868	40 - 41				
72P	38 - 39	650D	24	868D	40 - 41				
79CP	39	650D WC/C	24 - 25	868E	40 - 41				
79	11 - 15 - 29	650E	24 - 25	868F	40 - 41				
81P	25 - 27	650G	29	950	22 - 23				
82P	38 - 39	650R	26	950B	22 - 23 - 28				
83	48	650S	26	950C	22 - 23 - 28				
243	44 - 45 - 48	650T G01	21 - 26	950D	22 - 23 - 28				
245	44 - 45 - 48	650T G02	21 - 26	950X	28				
247G	44 - 45 - 48	650T G11	21 - 26	986	3				
296	6	650X	21 - 27	PN16	48				
297	11 - 15 - 29	650Y	27	ISTR	56				
297X	29	650V	27						
298CGR	29	650U G01	27						
370EM	29	650U G02	27						
375	29	650U G11	27						
394	47	651H	30 - 31						
395	47	655B	12 - 15						
396	47	655C	12 - 15						
398	47	655D	12 - 15						
402/90	47	655F	12 - 15						
403	47	655J	12 - 15						
640	8 - 9	655JD	14						
640A	10 - 14	655JS	14						
640B	10	655L	26						
640C	10	655M	26						
640D	10 - 14	655N	26						
640E	10 - 14	655P	26						
640J	12 - 13	660	32 - 33						
640P	11 - 15 - 29	660B	33 - 37						
641	10 - 14	660R	32 - 33						
641H	16 - 17	660S	32 - 33						
642	10	661	34 - 35						
643	10	661R	32 - 33						
643H	36 - 37	661S	34 - 35						
644	10 - 14	661H	36 - 37						
645B	8 - 11 - 13	661HQ	36 - 37						
645C	8 - 11 - 13	670CP	46						
645D	8 - 11	670AP	46						
645E	8 - 11	670ID	45						
645F	8 - 11	670IDL	48						
645T	8 - 11	643H	36 - 37						
645JD	14	670P	48						
645JS	14	670PN	44						
646	10 - 14	671A	44 - 45 - 48						
647	10	671B	44 - 45 - 48						
650	20 - 21	671C	44 - 45 - 48						

# VALIGETTA DI CAMPIONATURA COMPACT GRIP

## SAMPLE KIT CASE COMPACT GRIP

**NEW**

**Art. 986**

 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
Art. 950D	Art. 650G G01	Art. 375
Art. 950B	Art. 650R	Art. 376 CH3/CH6
Art. 660B	Art. 650S	Art. 650G
Art. 79	Art. 298/CGR	Art. 650GZ



## SIMBOLOGIA DATI TECNICI

### TECHNICAL DATA ICONS

<b>SERIE</b> SERIES		Morse Multitasking Multitasking vises		Morse Compact Grip Compact Grip vises		Morse Compact Grip Art.950 Compact Grip vises		Morse Grip Matic Grip Matic vises		Sistema a coda di rondine Dove Tail fixtures		
<b>INSERTI</b> GRIP INSERT GRIP				Liscio + Ruvido Smooth + Rough		Coda di Rondine Dove Tail		GRIP GRIP		Frontali Frontal		
<b>POSSIBILITÀ</b> POSSIBILITY						Montaggio con centralina Mounting with power unit		Lavorazioni a 5 assi 5 axis machining		Predisposizione Zero Point Zero Point Ready		
<b>PAGINE</b> 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**

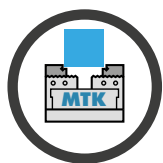
*Vises for advanced applications on 5 axis machining centres*



Precisione / Accuracy  
 $\pm 0,02\text{mm}$



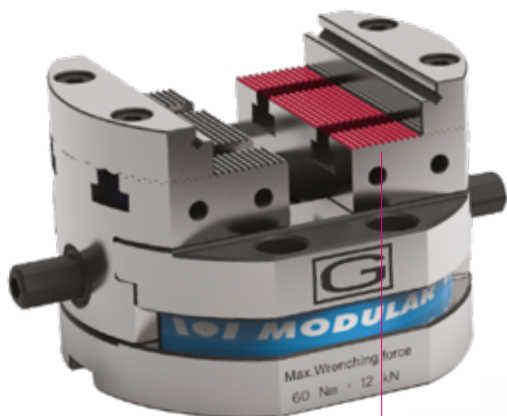
Durezza / Hardened  
**HRC 58 $\pm$ 2**



## Multitasking

Le Tonde  
 The Rounded

**Art. 640**



### 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).

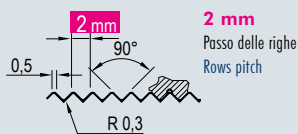
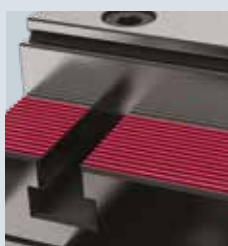
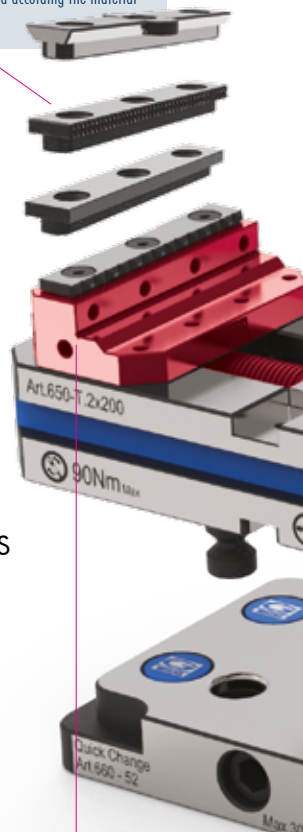
Inserts to be used on both sides Another advantage will be the greatest versatility thanks to easiest and quickest GRIP top jaw inserts exchange with different types of teeth design to be used according the material to be clamped

### CARATTERISTICHE & VANTAGGI

- ✓ USURA INESISTENTE
- ✓ RAPIDITA' DEI SERRAGGI
- ✓ MODULARITA' & VERSATILITA'
- ✓ PRECISIONI  $\pm 0,02$  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  $\pm 0,02$  mm
- ✓ RIGIDITY & SAFETY
- ✓ SELF-CENTERING
- ✓ ZERO POINT READY
- ✓ COMPATIBLE RISERS



Posizionamento delle ganasce in qualsiasi posizione della dentatura della base.

Possibility the jaws on whatever positioning on the vise base.

Ganasce da 74 a 140 mm. Ancoraggio diretto o tramite staffe / Posizionamento tramite fori calibrati o chiave / 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



### Ganasce Reversibili MONOBLOCCO

**SOLID GUIDED  
 Reversible Jaws**

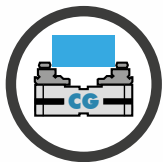
Versatilità grazie alle ganasce MONOBLOCCO reversibili e alle 4 opzioni di posizionamento della base (90°) ed ai fori frontali passanti.

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**

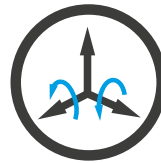
\*NON DISPONIBILE PER IL MERCATO TEDESCO E AUSTRIACO  
NOT AVAILABLE FOR GERMAN & AUSTRIAN MARKET



### Compatibilità con 4° asse Compatibility with 4th axis

La nuova Tavoleta 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.



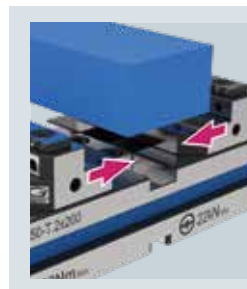
SCAN IT TO WATCH THE



VIDEO PRESENTATION



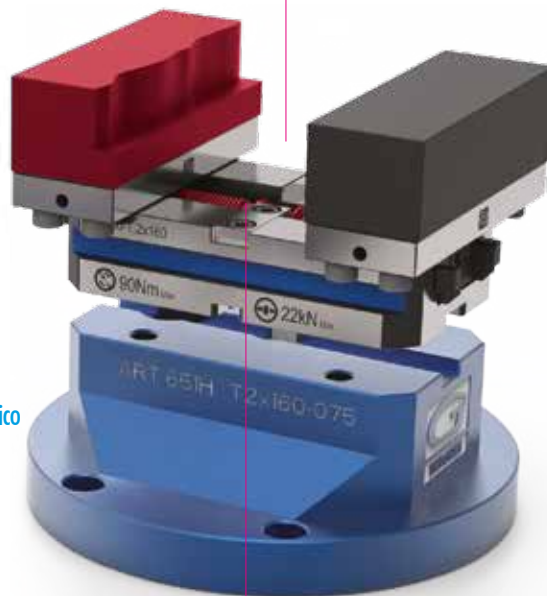
## Autocentranti e Compatte Selfcentering & Compact



### 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 slitte 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



## 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*

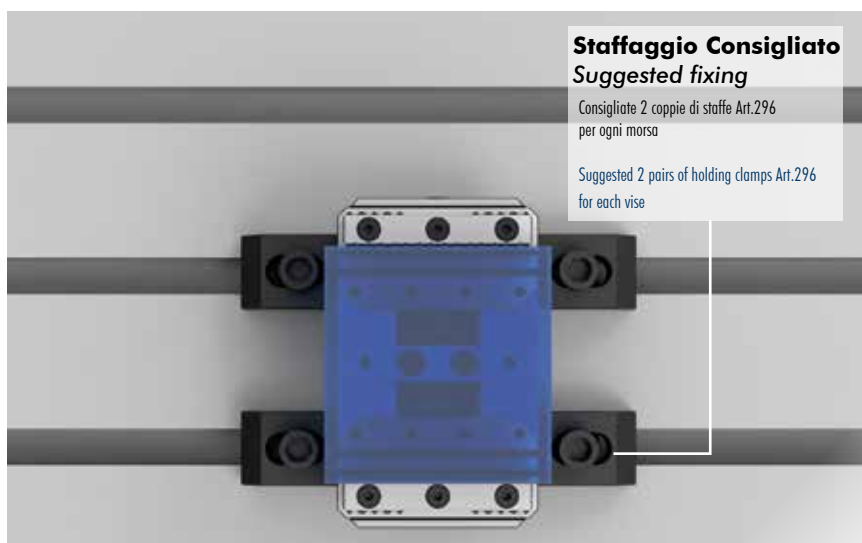


**Esempio d'ordine per morsa tipo 3 su macchina con cave a T da 18mm: Art.296 T.3 X=18mm**

**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*

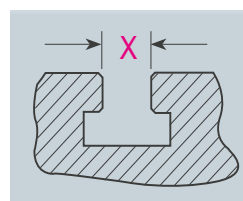
*Also with code: 2.29.6100 X=18mm*



**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

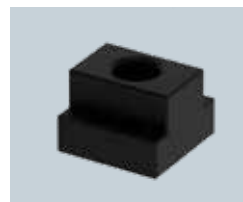


**Cava a T**

**T Slot**

Specificare sempre la cava della vostra macchina

Always specify the machine T-slot dimension

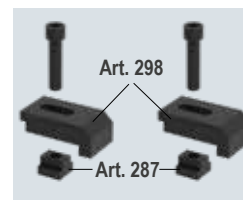


**Art.287 (Pag.4.34)**

**Dadi a T - T Nuts**

Per fissaggio morse 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

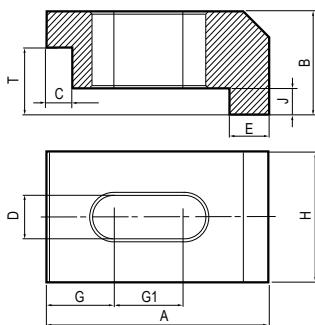
Suggested 2 pairs of holding clamps Art.296 for each vise

**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									
	<b>Art. 296</b>	Cava a T- slot X	12*	14	16	16	18	20	18*	20
	T-nuts Ref. N°	12	13	14	20	21	22	32	33	34
<b>Coppia di staffe</b> Holding clamps pair	Filetto vite Screw thread	<b>M10</b>			<b>M12 *</b>			<b>M16</b>		
	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			



\* Scelta consigliata - Suggested choice

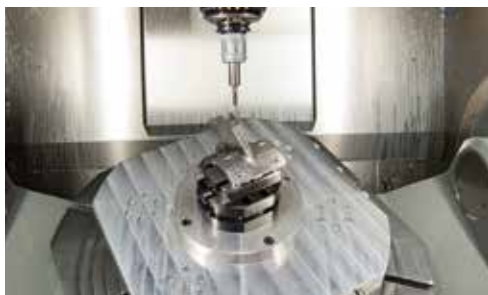
\* Scelta NON consigliata - NO Suggested choice

## Soluzioni personalizzate / Customized solutions

# 4th & 5th Axis

### Soluzioni personalizzate a tutti i vostri problemi di serraggio

*Customized solutions for all your clamping problems*

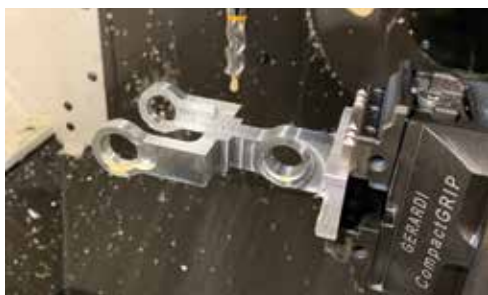


#### **Morsa Multitasking su centro a 5 assi**

*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

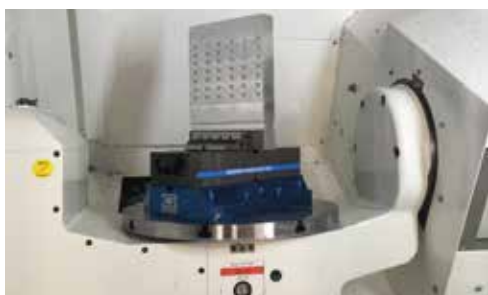


#### **Morsa CompactGrip su centro a 5 assi**

*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 Art650



#### **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)**
**Art. 640**

 Tipo / Type **1 e 2**

 Morsa autocentrante o eccentrica.  
 Azionamento manuale.  
 Serraggio meccanico

 Self-centering or eccentric vise.  
 Manual operation  
 Mechanical clamping

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

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

 Tipo / Type **1**

 Rialzo Semplice  
 Simple Riser

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

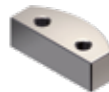
 Kit di fissaggio e allineamento morsa **incluso** - Vise fixing and alignment kit **included**
**Art. 641H**

 Tipo / Type **2**

 Rialzo Semplice  
 Simple Riser

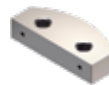
B	50	75	100
Cod.	7.64.1H200AL /50	7.64.1H200AL /75	7.64.1H200AL /100

 Kit di fissaggio e allineamento morsa **incluso** - Vise fixing and alignment kit **included**
**Art. 645B**

 Ganascia dolce  
 Soft jaw


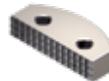
Cod.	6.64.5B100	6.64.5B200
------	------------	------------

**Art. 645C**

 Ganascia liscia  
 Smooth jaw


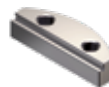
Cod.	6.64.5C100	6.64.5C200
------	------------	------------

**Art. 645D**

 Ganascia zigrinata  
 Serrated jaw


Cod.	6.64.5D100	6.64.5D200
------	------------	------------

**Art. 645E**

 Ganascia a gradino  
 Step jaw


Cod.	6.64.5E100	6.64.5E200
------	------------	------------

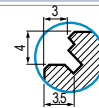
In Dotazione - Standard Equipment

**Art. 645F**

 Ganascia prismatica  
 Prismatic jaw


Cod.	6.64.5F100	6.64.5F200
------	------------	------------

**Art. 645T**

 Ganascia **GRIP**  
**GRIP** jaw


Cod.	6.64.5T100	6.64.5T200
------	------------	------------

Dotazione standard:

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

\*(Indicare dimensione in fase d'ordine)



Standard equipment:

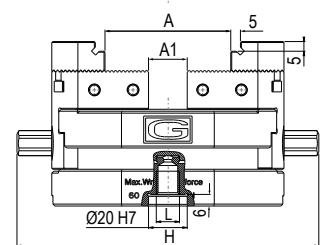
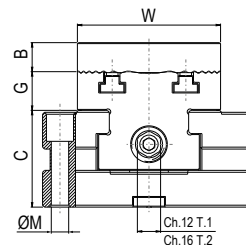
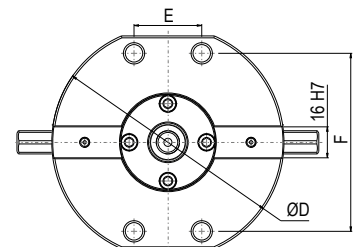
- 1 esagonal wrench Art. 375 ■ 1 workshop Art. 370
- 1 pair of positioning key-nuts Art. 297
- 1 calibrated centering pin Art. 640P\*

\*(Dimension to be advised at order)

**Art. 640**

 Tipo / Type **1 e 2**

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

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


**Tipo (grandezza) morsa**  
Vise type (size)

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

Morsa autocentrante o eccentrica.  
Azionamento manuale.  
Serraggio meccanico



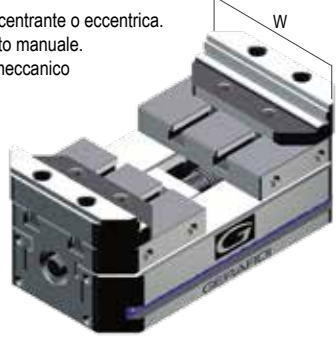
kN	3
A	108
A1	20
W	138
B	30
C	58
D	166
E	-
kg	13
Cod.	7.64.03166

Self-centering or eccentric vise.  
Manual operation  
Mechanical clamping

**Tipo (grandezza) morsa**  
Vise type (size)

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

Morsa autocentrante o eccentrica.  
Azionamento manuale.  
Serraggio meccanico



kN	3
A	208
A1	60
W	138
B	30
C	58
D	266
E	200
kg	20
Cod.	7.64.03266

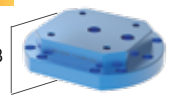
Self-centering or eccentric vise.  
Manual operation  
Mechanical clamping

**UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !**

**Art. 641H**

*Tipo / Type 3 x 166*

Rialzo Semplice  
Simple Riser



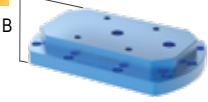
B	50	75	100
Cod.	7.64.1H3166AL /50	7.64.1H3166AL /75	7.64.1H3166AL /100

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

**Art. 641H**

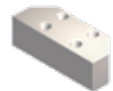

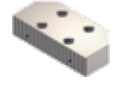

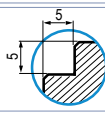


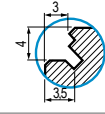
*Tipo / Type 3 x 266*

Rialzo Semplice  
Simple Riser



B	50	75	100
Cod.	7.64.1H3266AL /50	7.64.1H3266AL /75	7.64.1H3266AL /100

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

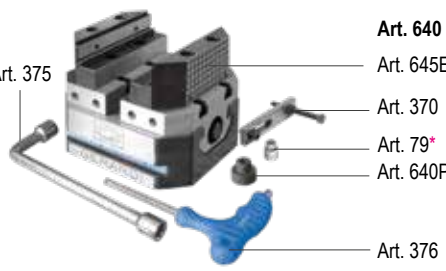
<b>Art. 645B</b> Ganascia dolce Soft jaw		Cod.	7.64.5B300
<b>Art. 645C</b> Ganascia liscia Smooth jaw		Cod.	7.64.5C300
<b>Art. 645D</b> Ganascia zigrinata Serrated jaw		Cod.	7.64.5D300
<b>Art. 645E</b> Ganascia a gradino Step jaw	 	Cod.	7.64.5E300
<b>Art. 645F</b> Ganascia prismatica Prismatic jaw		Cod.	7.64.5F300
<b>Art. 645T</b> Ganascia GRIP GRIP jaw	 	Cod.	7.64.5T300

In Dotazione - Standard Equipment

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)*



**Art. 640**

Art. 375      Art. 645E  
Art. 370  
Art. 79\*  
Art. 640P\*  
Art. 376

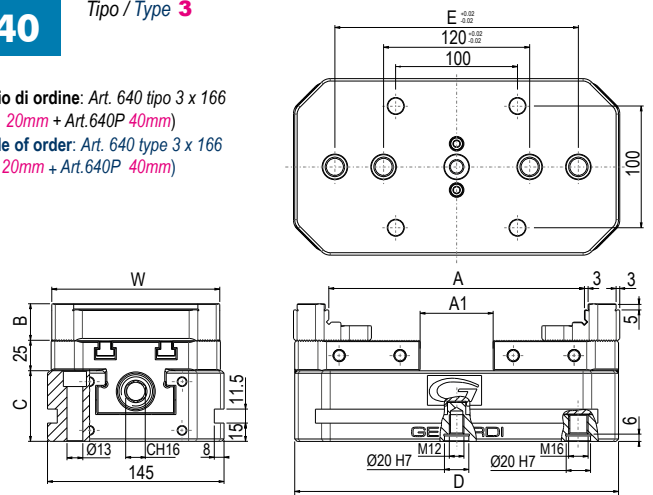
Standard equipment:

- 1 box wrench Art. 375 ■ 1 "T" wrench Art. 376
- 1 workstop Art. 370 ■ 1 calibrated centering and orientation pin Art. 79\*
- 1 calibrated centering pin Art. 640P\*

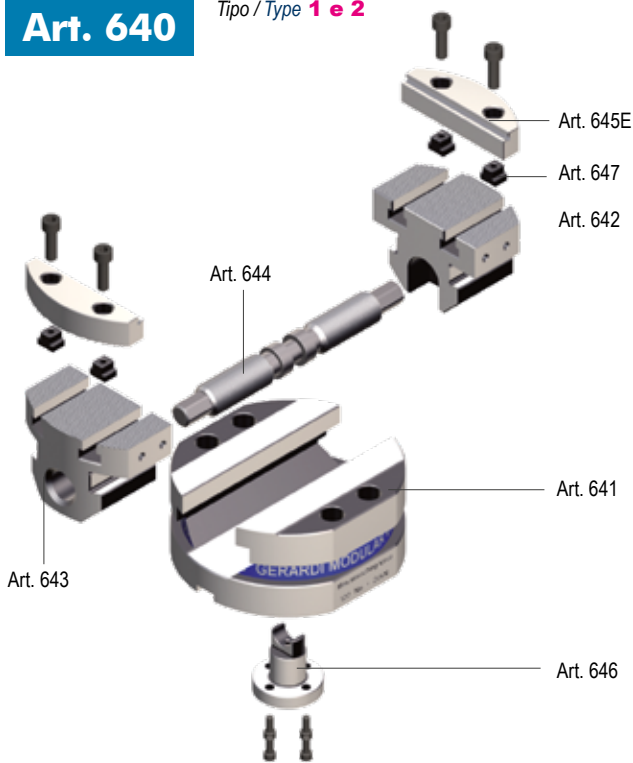
*\*(Dimension to be advised at order)*

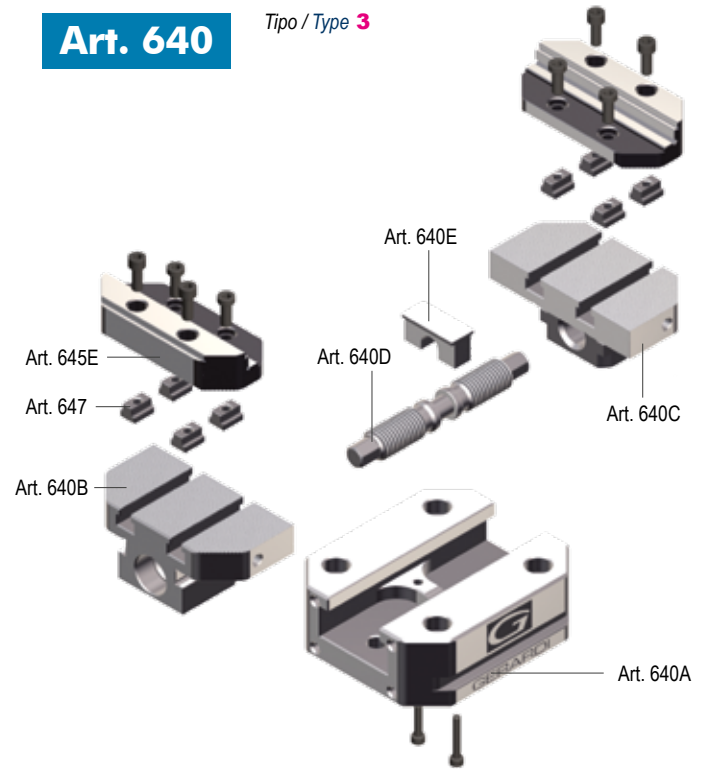
**Art. 640** *Tipo / Type 3*

Esempio di ordine: Art. 640 tipo 3 x 166  
(Art. 79 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
--------------------------------	---	---

**Art. 641**

 Corpo base  
 Base body

Cod. 6.64.11000 6.64.12000

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

**Art. 640A**

 Corpo base  
 Base body

Cod. 7.64.0A3166 7.64.0A3266

**Art. 642**

 Slitta integrale destra  
 Solid slide right hand

Cod. 6.64.21000 6.64.22000

**Art. 640B**

 Slitta integrale sinistra  
 Solid slide left hand

Cod. 7.64.0B3166 7.64.0B3266

**Art. 643**

 Slitta integrale sinistra  
 Solid slide left hand

Cod. 6.64.31000 6.64.32000

**Art. 640C**

 Slitta integrale destra  
 Solid slide right hand

Cod. 7.64.0C3166 7.64.0C3266

**Art. 644**

 Vite di bloccaggio  
 Main screw

Cod. 6.64.41000 6.64.42000

**Art. 640D**

 Vite di bloccaggio  
 Main screw

Cod. 7.64.0D3166 7.64.0D3266

**Art. 645E**

 Ganascia a gradino  
 Step jaw

Cod. 6.64.5E100 6.64.5E200

**Art. 640E**

 Forcella  
 Yoke

Cod. 7.64.0E3166 7.64.0E3266

**Art. 646**

 Forcella  
 Yoke

Cod. 6.64.61000 6.64.62000

**Art. 645E**

 Ganascia a gradino  
 Step jaw

Cod. 7.64.5E300

**Art. 647**

 Dado a T (Cad.)  
 T nut (Each)

Cod. 6.64.71000 6.64.72000

**Art. 647**

 Dado a T (Cad.)  
 T nut (Each)

Cod. 7.64.73000



# 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	
<b>Art. 645B*</b>		K	20	30	50
Ganascia dolce Soft jaw		X	27,5	42,5	-
Cod.		6.64.5B100	6.64.5B200	7.64.5B300	
<b>Art. 645C*</b>		Cod.	6.64.5C100	6.64.5C200	7.64.5C300
Ganascia liscia Smooth jaw					
<b>Art. 645D*</b>		Cod.	6.64.5D100	6.64.5D200	7.64.5D300
Ganascia zigrinata Serrated jaw					
<b>Art. 645E*</b>		Cod.	6.64.5E100	6.64.5E200	7.64.5E300
Ganascia a gradino Step jaw					
In Dotazione Standard Equipment					
<b>Art. 645F*</b>		ØA	7 ÷ 15	9 ÷ 20	12 ÷ 30
Ganascia prismatica Prismatic jaw		ØM	25 ÷ 70	35 ÷ 110	50 ÷ 160
Cod.		6.64.5F100	6.64.5F200	7.64.5F300	
<b>Art. 645T*</b>		Cod.	6.64.5T100	6.64.5T200	7.64.5T300
Ganascia GRIP Jaw					

\* Viti per fissaggio a richiesta    Fixing screws on request

Tipo (grandezza) / Type (size)		1	2	3	
<b>Art. 79</b>		ØB	-	-	10-12-14-16-18-20
Perno calibrato per centraggio e orientamento Calibrated centering and orientation pin		Cod.	-	-	7.79.20M16/ØB
<b>Art. 297</b>		B	10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 28 - 36	-	-
Coppia di tasselli di posizionamento completi di vite M5 x 10 Pair of positioning key-nuts with M5 x 10 clamping screw		Cod.	2.29.71000/B		
<b>Art. 640P</b>		ØB	20 - 30 - 38,1 - 50 - 50,8		
Perno calibrato per centraggio Calibrated centering pin		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	2
	kN	20 kN	26 kN
<b>Art. 640J</b> <i>Tipo / Type 1 e 2</i>	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	

Morsa autocentrante o eccentrica.  
Azionamento manuale.  
Serraggio meccanico

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 alignment 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 alignment kit **included**

**Art. 655B**

Piastra ganascia dolce  
Soft jaw-plate

Cod.	7.65.5B100	7.65.5B200
------	------------	------------

**Art. 655C**

Piastra ganascia liscia  
Smooth jaw-plate

Cod.	7.65.5C100	7.65.5C200
------	------------	------------

**Art. 655D**

Piastra ganascia zigrinata  
Serrated jaw-plate

Cod.	7.65.5D100	7.65.5D200
------	------------	------------

**Art. 655F**

Piastra ganascia prismatica  
Prismatic jaw-plate

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

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

**Art. 655J**

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

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

Da usare in coppia / To be used as a pair

In Dotazione - Standard Equipment

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

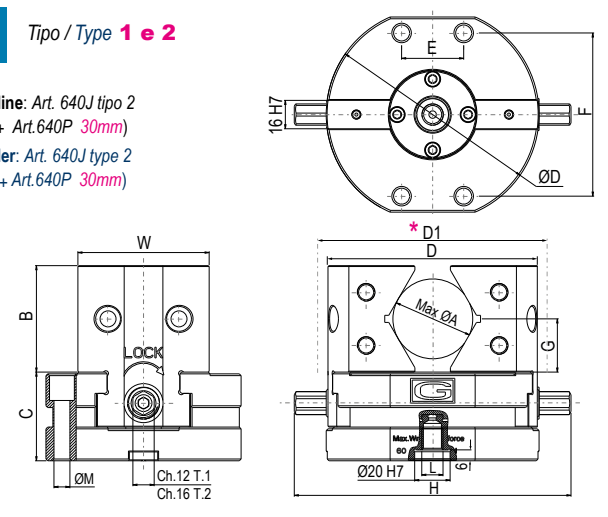


- Standard equipment:
- 1 exagonal wrench Art. 375 ■ 1 workstop Art. 370
  - 2 pair of plates Art. 655F (Tot. 4 pcs) ■ 1 pair soft jaw plates Art. 655B
  - 1 pair of positioning key-nuts Art. 297\*
  - 1 calibrated centering pin Art. 640P\*
- \* (Dimension to be advised at order)

**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)

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

Morsa autocentrante o eccentrica.  
Azionamento manuale.  
Serraggio meccanico



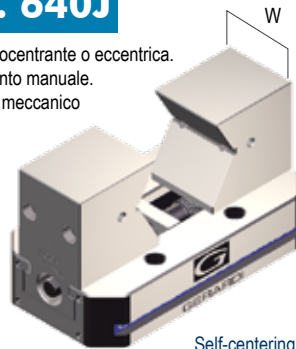
Self-centering or eccentric vise.  
Manual operation  
Mechanical clamping

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

**Tipo (grandezza) morsa**  
Vise type (size)

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

Morsa autocentrante o eccentrica.  
Azionamento manuale.  
Serraggio meccanico



Self-centering or eccentric vise.  
Manual operation  
Mechanical clamping

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

**UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !**

**Art. 641H**

Tipo / Type **3 x 166**

Rialzo Semplice  
Simple Riser



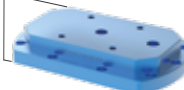
B	50	75	100
Cod.	7.64.1H3166AL /50	7.64.1H3166AL /75	7.64.1H3166AL /100

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

**Art. 641H**

Tipo / Type **3 x 266**

Rialzo Semplice  
Simple Riser



B	50	75	100
Cod.	7.64.1H3266AL /50	7.64.1H3266AL /75	7.64.1H3266AL /100

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

**Art. 655B**

Piastra ganascia dolce  
Soft jaw-plate



Cod. 7.65.5B316

**Art. 655C**

Piastra ganascia liscia  
Smooth jaw-plate



Cod. 7.65.5C316

**Art. 655D**

Piastra ganascia zigrinata  
Serrated jaw-plate



Cod. 7.65.5D316

**Art. 655F**

Piastra ganascia prismatica  
Prismatic jaw-plate

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

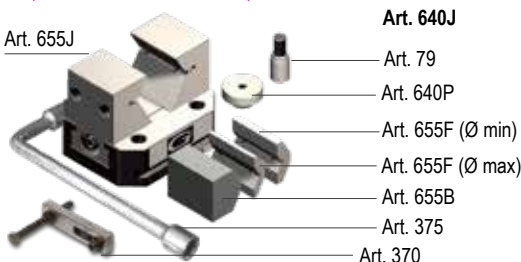


Ø	44 ÷ 68	48 ÷ 102
Cod.	7.65.5J316	7.65.5J326

In Dotazione - Standard Equipment

**Dotazione standard:**

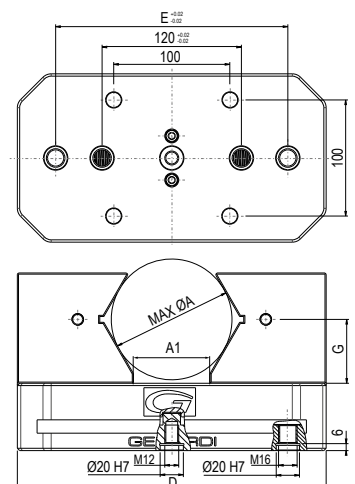
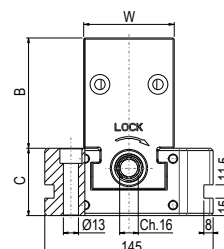
- 1 chiave a pipa Art. 375 ■ 1 arresto laterale Art. 370
  - 2 coppie di piastre Art. 655F (Tot. 4 pezzi) ■ 1 coppia di piastre dolci Art. 655B
  - 1 perno calibrato per centraggio e orientamento Art. 79\*
  - 1 perno calibrato per centraggio Art. 640P\*
- \*(Indicare dimensione in fase di ordine)


**Standard equipment:**

- 1 box wrench Art. 375 ■ 1 workstop 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)

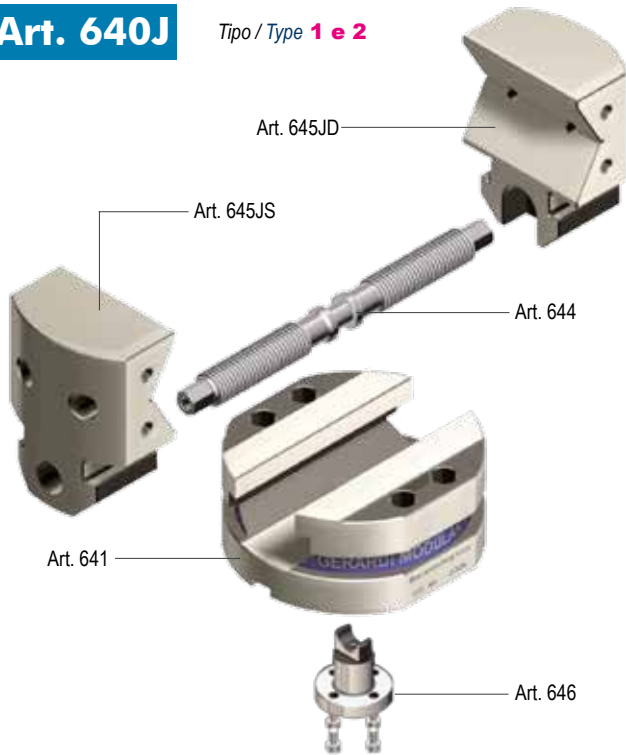
**Art. 640J** Tipo / Type **3**

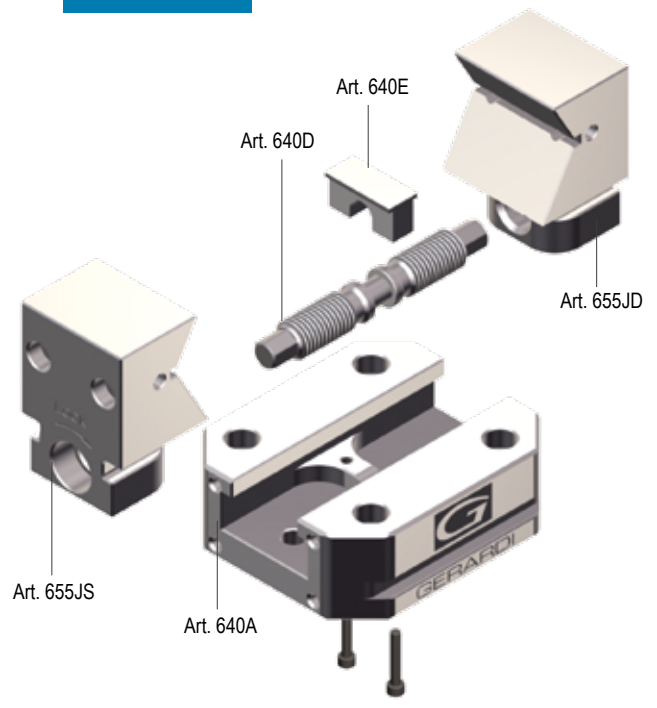

**Esempio di ordine:** Art. 640J tipo 3 x 266  
(Art. 79 20mm + Art. 640P 30mm)  
**Example of order:** Art. 640J type 3 x 266  
(Art. 79 20mm + Art. 640P 30mm)





**Art. 640J**

 Tipo / Type **1 e 2**

**Art. 640J**

 Tipo / Type **3**


Tipo (grandezza) / Type (size)	1	2
<b>Art. 641</b> Corpo base Base body	Cod. 6.64.11000	6.64.12000
<b>Art. 644</b> Vite di bloccaggio Main screw	Cod. 6.64.41000	6.64.42000
<b>Art. 645JD*</b> Ganascia integrale prismatica dx Solid prismatic right jaw	Cod. 7.64.5JD10	7.64.5JD20
<b>Art. 645JS*</b> Ganascia integrale prismatica sx Solid prismatic left jaw	Cod. 7.64.5JS10	7.64.5JS20
<b>Art. 646</b> Forcella Yoke	Cod. 6.64.61000	6.64.462000

Tipo (grandezza) / Type (size)	3x166	3x266
<b>Art. 640A</b> Corpo base Base body	Cod. 7.64.0A3166	7.64.0A3266
<b>Art. 640D</b> Vite di bloccaggio Main screw	Cod. 7.64.0D3166	7.64.0D3266
<b>Art. 640E</b> Forcella Yoke	Cod. 7.64.0E3166	7.64.0E3266
<b>Art. 655JD*</b> Ganascia integrale prismatica dx Solid prismatic right jaw	Cod. 7.65.5JD316	7.65.5JD326
<b>Art. 655JS*</b> Ganascia integrale prismatica sx Solid prismatic left jaw	Cod. 7.65.5JS316	7.65.5JS326

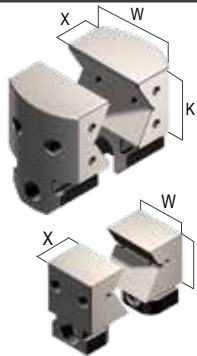
\* **Art. 655JS** + **Art. 655JD** = **Art. 655J**  
 Tipo / Type **1-2**

\* **Art. 645JS** + **Art. 645JD** = **Art. 655J**  
 Tipo / Type **3**

# GANASCE & PIASTRE GANASCE PER MORSE MULTITASKING Art.640J

## JAWS & JAW PLATES FOR MULTITASKING VISES Art.640J

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

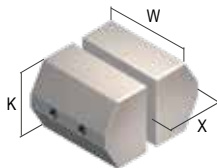


In Dotazione - Standard Equipment

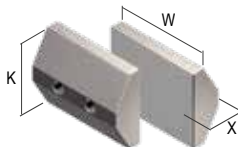
<b>Art. 655J</b> Tipo / Type 3				

In Dotazione - Standard Equipment

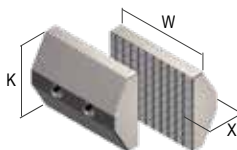
<b>Art. 655B</b> Piastra ganascia dolce Soft jaw-plate	K 55	70	60	
	X 38	54	49	
	Cod. 7.65.5B100	7.65.5B200	7.65.5B316	



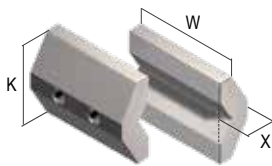
<b>Art. 655C</b> Piastra ganascia liscia Smooth jaw-plate	K 55	70	60	
	X 23	32	24	
	Cod. 7.65.5C100	7.65.5C200	7.65.5C316	



<b>Art. 655D</b> Piastra ganascia zigrinata Serrated jaw-plate	K 55	70	60	
	X 23	32	24	
	Cod. 7.65.5D100	7.65.5D200	7.65.5D316	

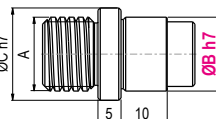


Tipo (grandezza) / Type (size)	1	2	3x166	3x266
<b>Art. 655F</b> Piastra ganascia prismatica Prismatic jaw-plate	K 43	54	60	60
	X 17	22	24	24
	Ø 10 ÷ 18	10 ÷ 30	12 ÷ 32	12 ÷ 38
	Cod. 7.65.5F118	7.65.5F230	7.65.5F330	
	Ø 15 ÷ 23 - 23 ÷ 30 *	25 ÷ 45	14 ÷ 34	12 ÷ 38
	Cod. 7.65.5F123	7.65.5F245	7.65.5F335	
	Ø -	-	16 ÷ 36	16 ÷ 58
	Cod. -	-	7.65.5F345	
	Ø -	-	18 ÷ 45	24 ÷ 65
	Cod. -	-	7.65.5F350	

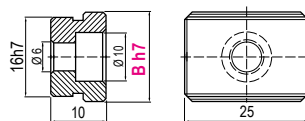


\* Per Ø 23=30 ingombro max. (D1) = 132mm Ø (anziché 120mm)  
 For Ø 23=30 max overall dimension (D1) Ø132mm (instead of 120mm)

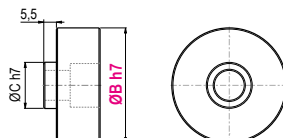
Tipo (grandezza) / Type (size)	1	2	3
<b>Art. 79</b> Perno calibrato per centraggio e orientamento Calibrated centering and orientation pin	ØB -	-	10-12-14-16-18-20
	Cod. -	-	7.79.20M16/ØB



<b>Art. 297</b> 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	-	



<b>Art. 640P</b> Perno calibrato per centraggio Calibrated centering pin	ØB 30 - 38,1 - 50 - 50,8		
	Cod. 7.64.0P100	7.64.0P200	7.64.0P300



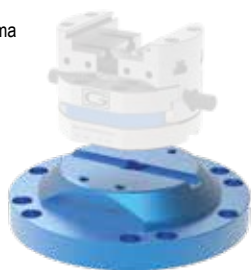
\* Specificare sempre quota B - Specify always B dimension

# RIALZI IN ALLUMINIO PER MORSE ART.640

## ALUMINUM RISERS FOR VISES ART.640



Tipo (grandezza) rialzo Riser type	1			2			
<b>Art. 641H</b> Tipo / Type 1 e 2	ØA	120			160		
Rialzo semplice, compatibile con il sistema Zero Point	B	50	75	100	50	75	100
	kg	3	4,5	5,4	3,5	4,9	6,4
	Cod.	7.64.1H100AL/050	7.64.1H100AL/075	7.64.1H100AL/100	7.64.1H200AL/050	7.64.1H200AL/075	7.64.1H200AL/100


 Simple riser  
Zero Point ready

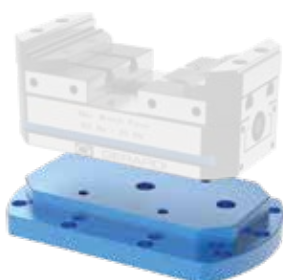
 Kit di fissaggio e allineamento rialzo **non incluso** / Riser fixing and alignment kit **not included**

Tipo (grandezza) rialzo / Riser type (size)	3 x 166		
<b>Art. 641H</b> Tipo / Type 3 x 166	A	166	
Rialzo semplice, compatibile con il sistema Zero Point	B	50	100
	C	230	
	D	190	
	kg	3,8	6,8
	Cod.	7.64.1H3166AL/050	7.64.1H3166AL/100


 Simple riser  
Zero Point ready

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

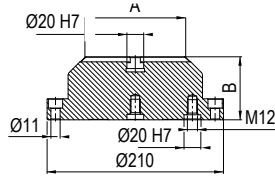
Tipo (grandezza) rialzo / Riser type (size)	3 x 266		
<b>Art. 641H</b> Tipo / Type 3 x 266	A	266	
Rialzo semplice, compatibile con il sistema Zero Point	B	50	100
	C	310	
	D	286	
	kg	5,8	10,7
	Cod.	7.64.1H3266AL/050	7.64.1H3266AL/100


 Simple riser  
Zero Point ready

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

**NEW 2021**
**PIASTRE di INTERFACCIA**  
**INTERFACE PLATES**
**NEW 2021**
**Tipo (grandezza)**  
 Riser (type) size

**1 e 2**
**Tipo (grandezza)**  
 Riser (type) size

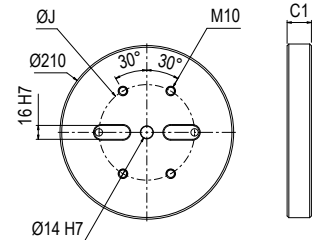
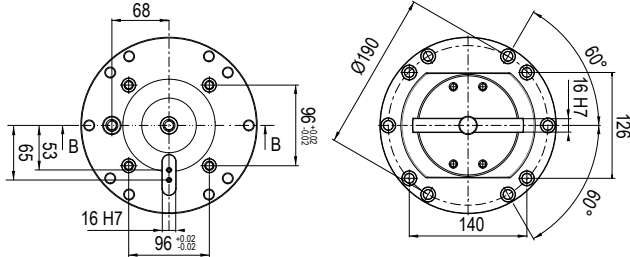
**1 e 2**
**Art. 641H**

**Art. 62K**

ØJ 190

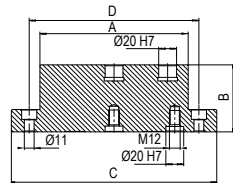
C1 28

**Multitasking**

Cod. 7.62.K641H21

 Piastra di interfaccia lavorabile  
 Machineable interface plate

 Kit di fissaggio al rialzo **incluso** / Riser fixing and positioning kit **included**
**Tipo (grandezza)**  
 Riser (type) size

**3 x 166**
**Tipo (grandezza)**  
 Riser (type) size

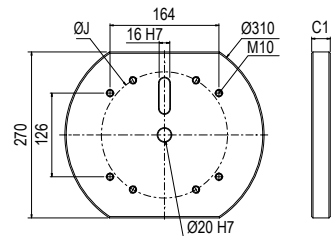
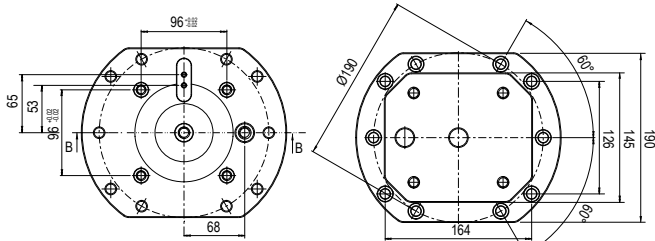
**3 x 166**
**Art. 641H**

**Art. 62K**

ØJ 190

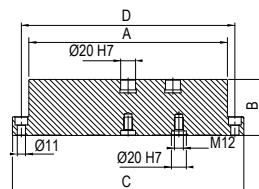
C1 28

**Multitasking**

Cod. 7.62.K641H31

 Piastra di interfaccia lavorabile  
 Machineable interface plate

 Kit di fissaggio al rialzo **incluso** / Riser fixing and positioning kit **included**
**Tipo (grandezza)**  
 Riser (type) size

**3 x 266**
**Tipo (grandezza)**  
 Riser (type) size

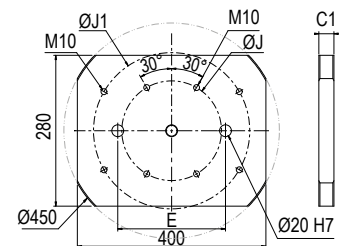
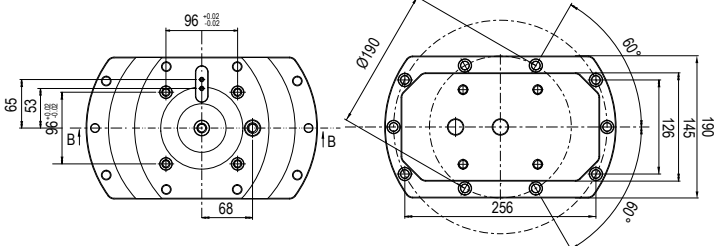
**3 x 266**
**Art. 641H**

**Art. 62K**

ØJ 260

C1 28

**Multitasking**

Cod. 7.62.K641H45

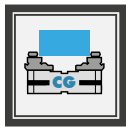
 Piastra di interfaccia lavorabile  
 Machineable interface plate

 Kit di fissaggio al rialzo **incluso** / Riser fixing and positioning kit **included**



## MORSE COMPACT GRIP

### COMPACT GRIP VISES

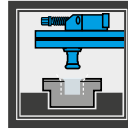
#### Esempi applicativi su centri a 5 assi - Application example on 5 axis machine



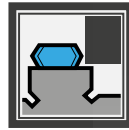
Morse Compact Grip  
Compact Grip vises



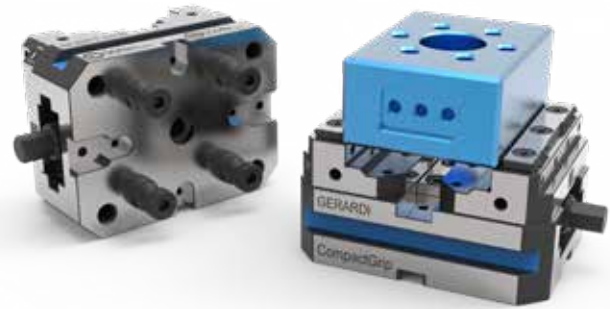
lavorazioni a 5 assi  
5 axis machining



Predisposizione  
Zero Point  
Zero Point ready



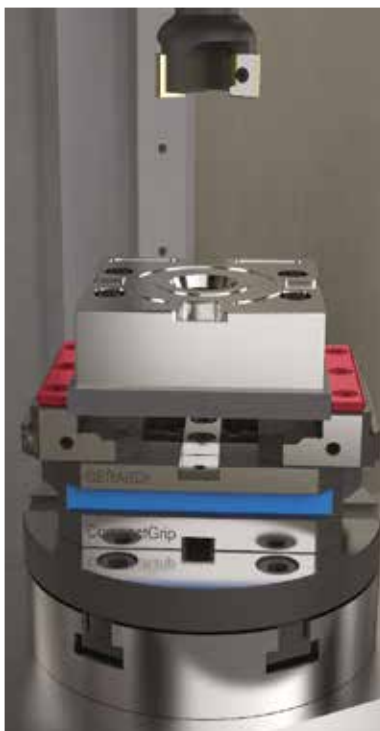
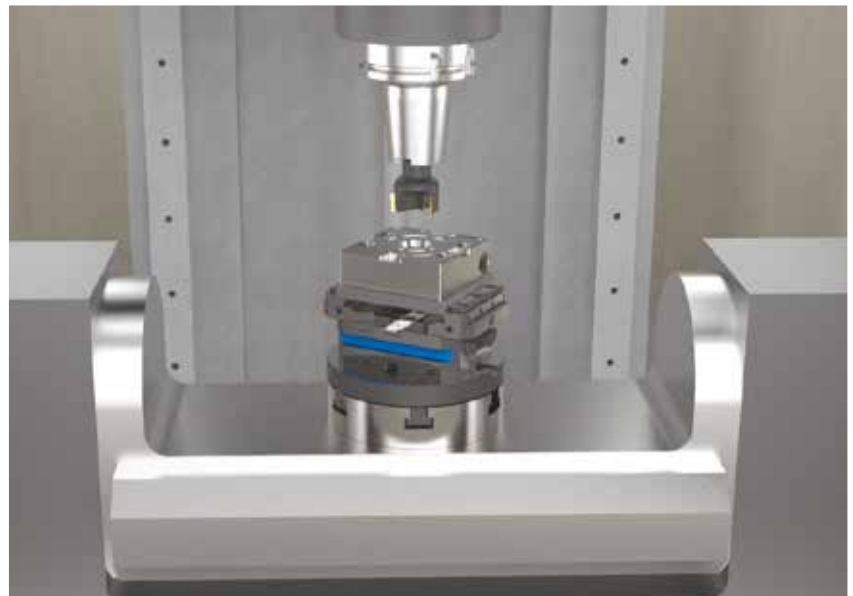
Inserti GRIP  
GRIP inserts



### Art.650 Compact Grip

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

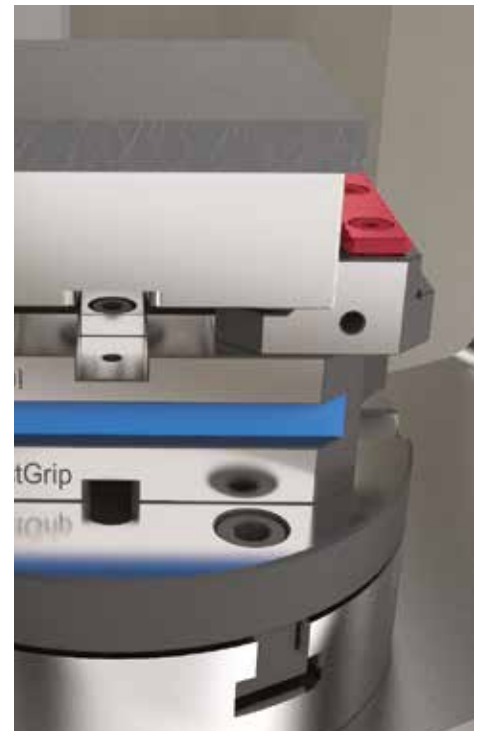
The absolute news for 5 axis machine centres and new multiclamping system are the self-centering Compact Grip vises. Their name identifies the main vise features which are the extreme compactness and easiest handling and the system of inserts which adopts, so called "GRIP". This system includes a range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



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



Dettaglio Inserto Grip.  
Insert Grip detail.

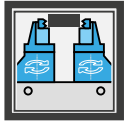


Tramite il gradino liscio della ganascia si rimuove il sovrametallo rimanente e si finisce il particolare.  
Then through the smooth jaw step you can remove the remaining stock allowance from the workpiece and finish the workpiece.

## MORSE FMS

### FMS VISES

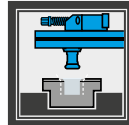
#### Esempi applicativi su centri a 5 assi - Application example on 5 axis machine



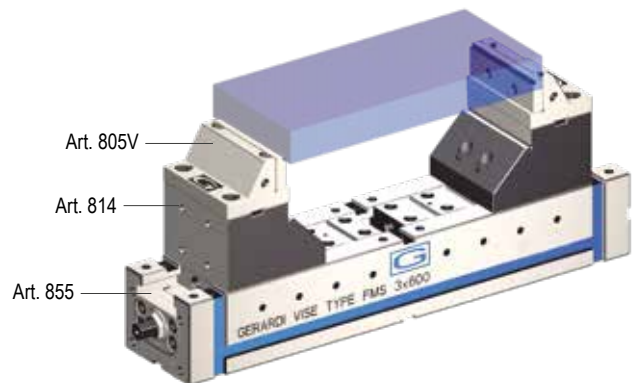
Ganasce alte e rialzate  
High and raised jaws



lavorazioni a 5 assi  
5 axis machining



Predisposizione  
Zero Point  
Zero Point ready



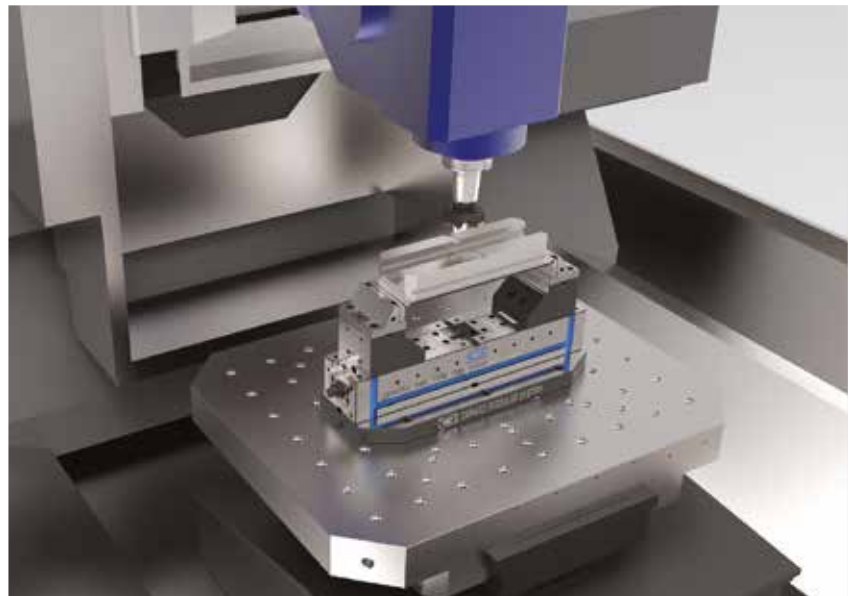
### Art.868 FMS series

Grazie all'estrema versatilità del sistema modulare Gerardi anche le morse FMS, adeguatamente riconfigurate, possono rientrare nella cosiddetta categoria di morse Multitasking per centri di lavoro a 5 assi.

Basterà quindi montare la base mobile Art.814 con le relative ganasce Art.805V sul modulo base universale Art.855.

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

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



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



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

Tipo (grandezza) morsa / Vise type (size)	1			2		
	kN	12 kN		22 kN		
<b>Art. 650</b> Tipo / Type <b>1x120</b>	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		

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

Self-centering 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

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

**Art. 651H** Tipo / Type **2**  
 Rialzo Semplice  
 Simple Riser

Kit di fissaggio e allineamento morsa **incluso**

**Art. 660** Interasse / Type **52 mm**  
 Tavola Quick change  
 Quick change table

Cod.	9.66.05200		
------	------------	--	--

Vedi gamma completa - See the complete range Page 7.32 / 7.33

**Art. 660** Interasse / Type **52 mm**  
 Tavola Quick change  
 Quick change table

Vedi gamma completa Pag. 7.32 / 7.33

**Art. 650X**  
 Ganasce fissa intermedia  
 Intermedie fixie jaw

Cod.	7.65.0X1000		
------	-------------	--	--

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. 650X**  
 Ganasce fissa intermedia  
 Intermedie fixie jaw

**Art. 650T G01**  
 Inserto ganasce  
 Top jaw insert  
**GRIP (Passo - Pitch 1,5mm)**

Cod.	7.65.0T1000/G01		
------	-----------------	--	--

**Art. 650T G01**  
 Inserto ganasce  
 Top jaw insert  
**GRIP (Passo - Pitch 1,5mm)**

Side 1 Side 2  
 1,5x60°

**Art. 650T G02**  
 Inserto ganasce  
 Top jaw insert  
**GRIP (Passo - Pitch 2mm)**

Cod.	7.65.0T1000/G02		
------	-----------------	--	--

**Art. 650T G02**  
 Inserto ganasce  
 Top jaw insert  
**GRIP (Passo - Pitch 2mm)**

Side 1 Side 2  
 2x90°

**Art. 650T G11**  
 Inserto ganasce  
 Top jaw insert  
**GRIP (Passo - Pitch 11mm)**

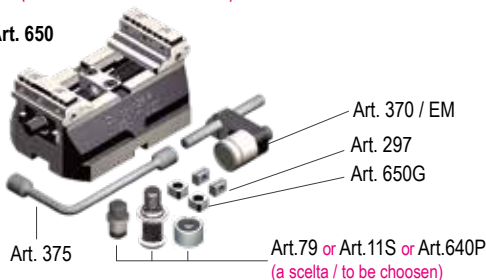
Cod.	7.65.0T1000/G11		
------	-----------------	--	--

**Art. 650T G11**  
 Inserto ganasce  
 Top jaw insert  
**GRIP (Passo - Pitch 11mm)**

Side 1 Side 2  
 11x90°

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.115 oppure 1 perno calibrato per centraggio Art.640P\*
- \* (Indicare dimensione in fase di ordine)

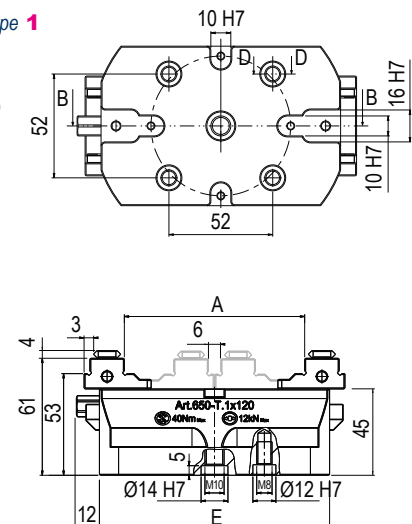
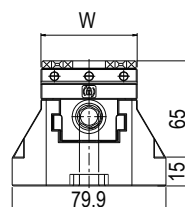
**Art. 650**


Standard equipment:

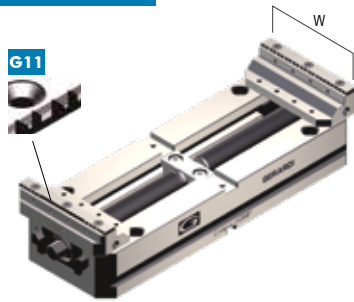
- 1 box wrench Art.375 ■ 1 workshop Art.370EM ■ 1 pair of self-centering key-nuts Art. 297
- 2 positioning key-nuts Art.650G\* ■ 1 calibrated centering and orientation pin Art.79 or 1 pull stud for zero point Art.115 or 1 calibrated centering pin Art.640P\*
- \* (Dimension to be advised at order)

**Art. 650** Tipo / Type **1**


**Esempio di ordine:** Art. 650 tipo 1x80  
 (Art.650G 16mm + Art.640P 30mm)  
**Example of order:** Art. 650 type 1x80  
 (Art.650G 16mm + Art.640P 30mm)



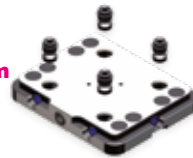
kN	2 22 kN				3 32 kN				
	A	W	E	kg	Cod.				
A	96	136	176	216	<b>Art. 650</b> Tipo / Type <b>3x310</b>				
W	88	88	88	88	133	183	233	283	333
E	120	160	200	240	123	123	123	123	123
kg	3,6	4,4	5,2	5,8	160	210	260	310	360
Cod.	7.65.02120	7.65.02160	7.65.02200	7.65.02240	9,1	10,9	12,8	14,8	17
					7.65.03160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


**UPGRADE YOUR VISE APPLICATIONS THROUGH MODULAR ACCESSORIES !**

B	100				100				
Cod.	7.65.1H2120 /100	7.65.1H2160 /100	7.65.1H2200 /100	7.65.1H2240 /100	<b>Art. 651H</b> Tipo / Type <b>3</b>				
					Rialzo Semplice / Simple Riser				
					Kit di fissaggio e allineamento morsa <b>incluso</b> - Vise fixing and alignment kit <b>included</b>				



<b>Art. 660</b>				<b>Art. 660</b>				
Cod.	9.66.05200			9.66.09600				
	Tavola Quick change / Quick change table			Vedi gamma completa - See the complete range Page 7.32 / 7.33				



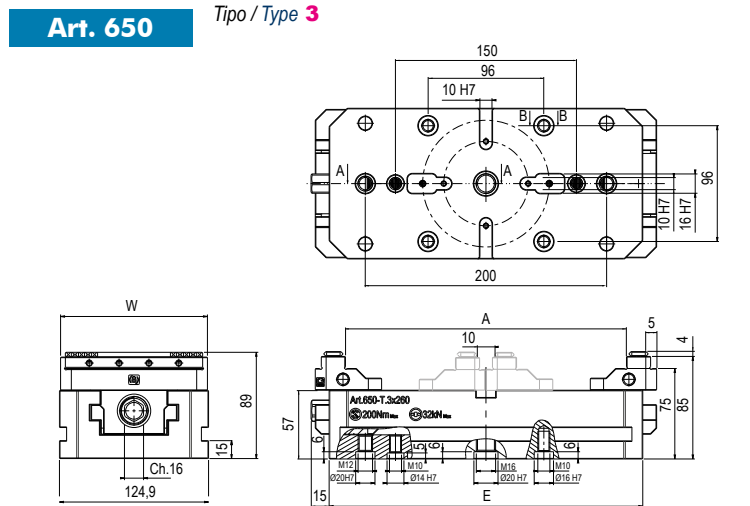
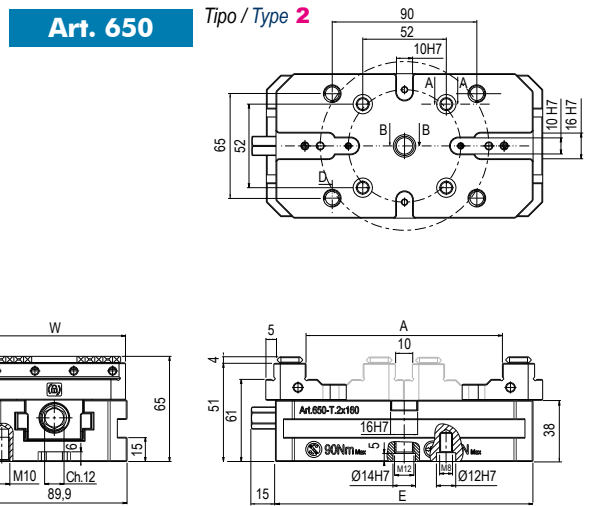
<b>Art. 650X</b>				<b>Art. 650X</b>				
Cod.	7.65.0X2000			7.65.0X3000				
	Ganascia fissa intermedia / Intermediae fixe jaw			In fase d'ordine specificare il tipo di inserto, vedi pag. 7.27 / In case of order always specify the type of insert, see page 7.27				



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

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

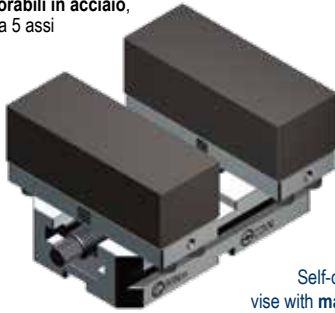
<b>Art. 650T G11</b>				<b>Art. 650T G11</b>				
Cod.	7.65.0T2000/G11			7.65.0T3000/G11				
	Per materiali teneri / For soft material clamping							





**Tipo (grandezza) morsa / Vise (type) size**
**kN**
**2**
**22 kN**
**Art. 950**

 Tipo / Type **2x160**

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

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

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

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

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

B	100			
Cod.	7.65.1H2120 / 100	7.65.1H2160 / 100	7.65.1H2200 / 100	7.65.1H2240 / 100

**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. 950B**

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

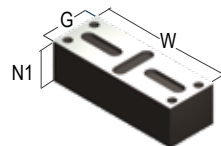

Cod.	7.95.0B2000			
------	-------------	--	--	--

**Art. 950C**

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


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

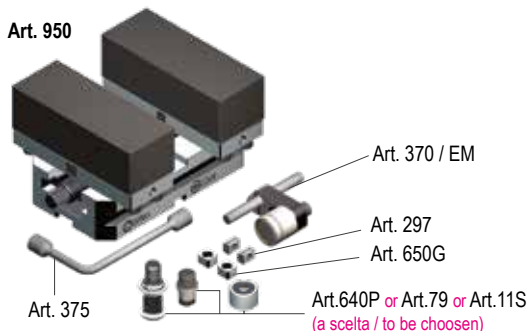
**Art. 950D**

 Ganasca lavorabile in acciaio  
 Machineable steel jaw


Cod.	7.95.0D200			
------	------------	--	--	--

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)

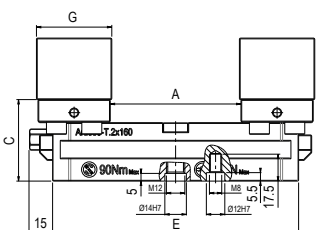
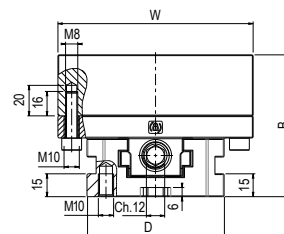
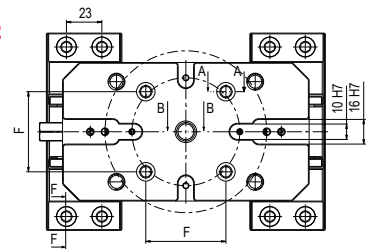
**Art. 950**


Standard equipment:

- 1 box wrench Art.375 ■ 1 workstop 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.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)


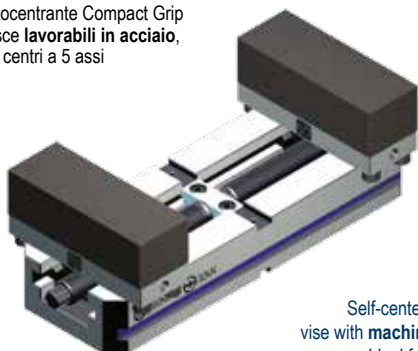
**Tipo (grandezza) morsa / Vise (type) size**

	<b>3</b>				
<b>kN</b>	<b>32 kN</b>				
A	71	121	171	221	271
W	160				
B	124				
C	57				
C1	77				
D	124,9				
E	160	210	260	310	360
F	96				
G	59				
L	Ø16				
L1	M10				
kg	16.8	18.6	20.5	22.5	24.4
Cod.	7.95.03160	7.95.03210	7.95.03260	7.95.03310	7.95.03360

**Art. 950**

 Tipo / Type **3x360**

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



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

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

B	100				
Cod.	7.65.1H3160 / 100	7.65.1H3210 / 100	7.65.1H3260 / 100	7.65.1H3310 / 100	7.65.1H3360 / 100

**Art. 660**

 Interasse / Type **96 mm**

 Tavola Quick change  
 Quick change table

Vedi gamma completa - See the complete range Page 7.32 / 7.33



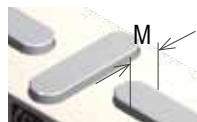
Cod.	9.66.09600				
------	------------	--	--	--	--

**Art. 950B**

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

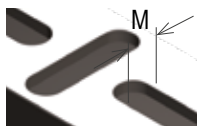

Cod.	7.95.0B3000				
------	-------------	--	--	--	--

**Art. 950C**

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


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

**Art. 950D**

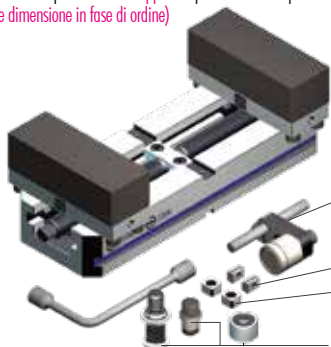
 Ganaschia lavorabile in acciaio  
 Machineable steel jaw


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 firante zero point Art.11S oppure 1 perno calibrato per centraggio Art.640P\*

\*(Indicare dimensione in fase di ordine)

**Art. 950**


Art. 370 / EM

 Art. 297  
 Art. 650G

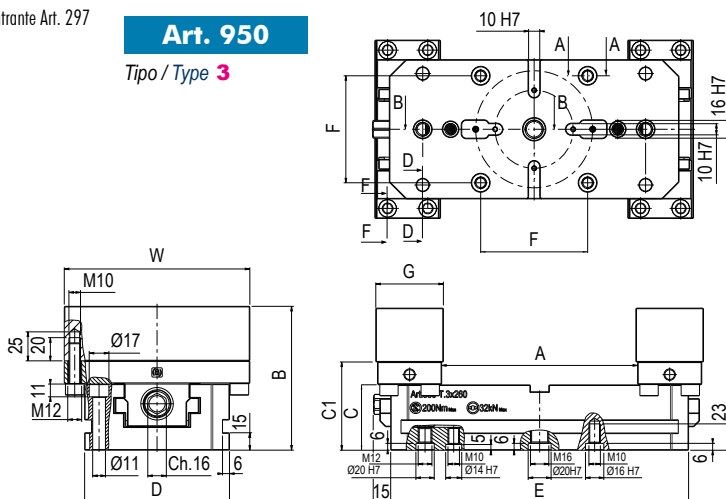
 Art.640P or Art.79 or Art.11S  
 (a scelta / to be chosen)

Standard equipment:

- 1 box wrench Art.375 ■ 1 workstop 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\*

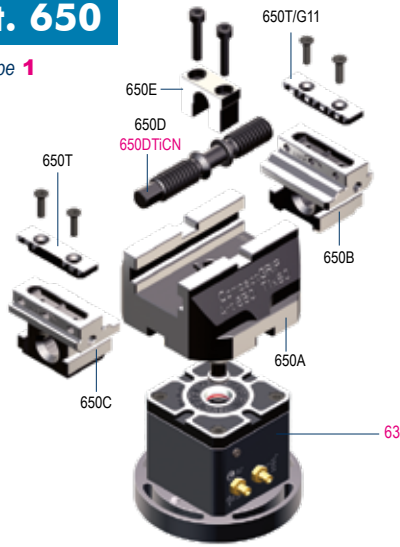
\*(Dimension to be advised at order)

**Art. 950**

 Tipo / Type **3**


## Art. 650

Tipo / Type 1



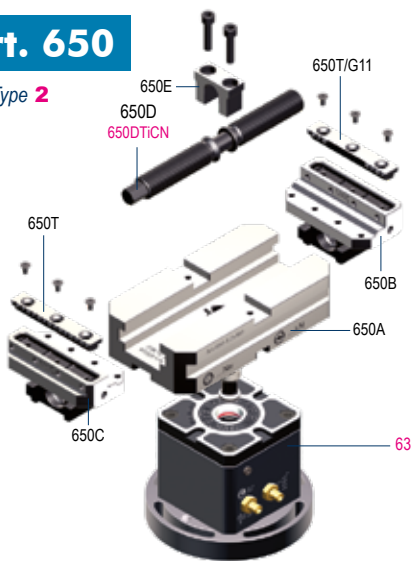
Tipo / Type 1		1x80	1x120	1x160
<b>Art. 650A</b>	Cod.	7.65.0A1080	7.65.0A1120	7.65.0A1160
Corpo base - Base body				
<b>Art. 650B</b>	Cod.		7.65.0B1000	
Ganascia integrale destra Solid jaw right hand				
<b>Art. 650C</b>	Cod.		7.65.0C1000	
Ganascia integrale sinistra Solid jaw left hand				
<b>Art. 650D</b>	Cod.	7.65.0D1080	7.65.0D1120	7.65.0D1160
Vite di bloccaggio - Main screw				
<b>Art.650DTCN</b> (Optional)	Cod.	7.65.0D1080-TCN	7.65.0D1120-TCN	7.65.0D1160-TCN
Vite di bloccaggio a scorrimento rapido con rivestimento anti-usura TiCN Quick-slide clamping screw with anti-wear coating TiCN				
<b>Art. 650E</b>	Cod.		7.65.0E1000	
Forcella - Yoke				

Tipo / Type		1	2
<b>Art. 63</b> (Optional)	Cod.	9.63.10000	9.63.20000
Rialzo singolo con Zero Point Risers with ZeroPoint			

## Art. 650

Tipo / Type 2



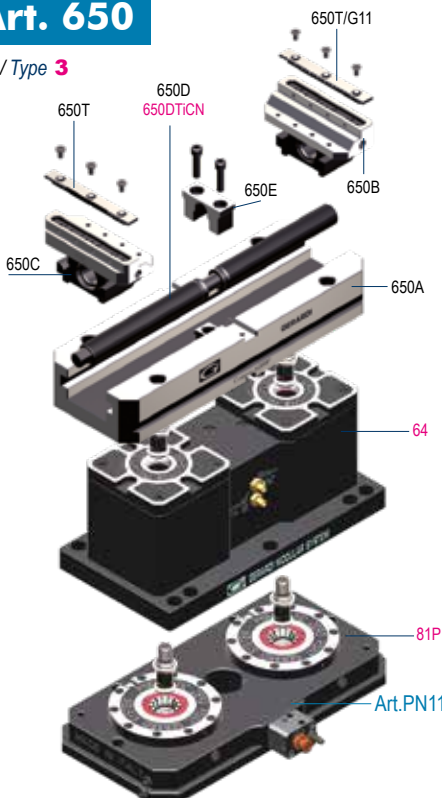
Tipo / Type 2		2x120	2x160	2x200	2x240
<b>Art. 650A</b>	Cod.	7.65.0A2120	7.65.0A2160	7.65.0A2200	7.65.0A2240
Corpo base - Base body					
<b>Art. 650B</b>	Cod.		7.65.0B2000		
Ganascia integrale destra Solid jaw right hand					
<b>Art. 650C</b>	Cod.		7.65.0C2000		
Ganascia integrale sinistra Solid jaw left hand					
<b>Art. 650D</b>	Cod.	7.65.0D2120	7.65.0D2160	7.65.0D2200	7.65.0D2240
Vite di bloccaggio - Main screw					
<b>Art.650DTCN</b> (Optional)	Cod.	7.65.0D2120-TCN	7.65.0D2160-TCN	7.65.0D2200-TCN	7.65.0D2240-TCN
Vite di bloccaggio a scorrimento rapido con rivestimento anti-usura TiCN Quick-slide clamping screw with anti-wear coating TiCN					
<b>Art. 650E</b>	Cod.		7.65.0E2000		
Forcella - Yoke					

Tipo / Type		1	2
<b>Art. 63</b> (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
<b>Art. 650A</b>	Cod.	7.65.0A3160	7.65.0A3210	7.65.0A3260	7.65.0A3310	7.65.0A3360
Corpo base - Base body						
<b>Art. 650B</b>	Cod.			7.65.0B3000		
Ganascia integrale destra Solid jaw right hand						
<b>Art. 650C</b>	Cod.			7.65.0C3000		
Ganascia integrale sinistra Solid jaw left hand						
<b>Art. 650D</b>	Cod.	7.65.0D3160	7.65.0D3210	7.65.0D3260	7.65.0D3310	7.65.0D3360
Vite di bloccaggio - Main screw						
<b>Art.650DTCN</b> (Optional)	Cod.	7.65.0D3160-TCN	7.65.0D3210-TCN	7.65.0D3260-TCN	7.65.0D3310-TCN	7.65.0D3360-TCN
Vite di bloccaggio a scorrimento rapido con rivestimento anti-usura TiCN Quick-slide clamping screw with anti-wear coating TiCN						
<b>Art. 650E</b>	Cod.			7.65.0E3000		
Forcella - Yoke						

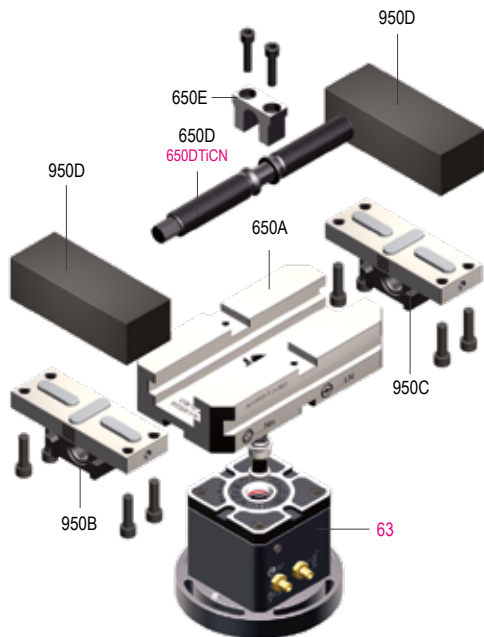
Tipo / Type		1	2
<b>Art. 64</b> (Optional)	Cod.	9.64.10000	9.64.20000
Rialzo doppio con Zero Point Double riser with Zero Point			
Non utilizzabile con morse tipo 3x160 - Impossible to use with vises type 3x160			

Piastra ZeroPoint, montaggio incassato - ZeroPoint Plates, built-in mounting			
<b>Art. 81P</b> (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

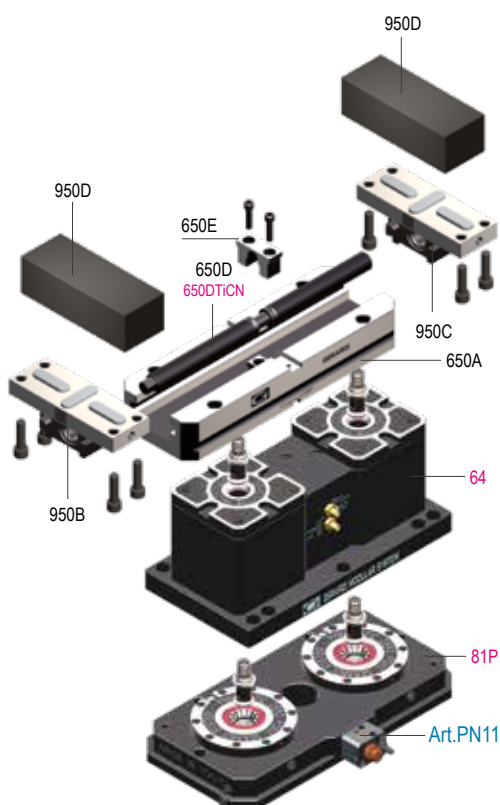
Tipo / Type 2



Tipo / Type 2	2x120	2x160	2x200	2x240
<b>Art. 650A</b> Corpo base - Base body	Cod. 7.65.0A2120	7.65.0A2160	7.65.0A2200	7.65.0A2240
<b>Art. 950B</b> Ganascia integrale destra Solid jaw right hand	Cod. 7.95.0B2000			
<b>Art. 950C</b> Ganascia integrale sinistra Solid jaw left hand	Cod. 7.95.0C2000			
<b>Art. 650D</b> Vite di bloccaggio - Main screw	Cod. 7.65.0D2120	7.65.0D2160	7.65.0D2200	7.65.0D2240
<b>Art.650DTiCN</b> (Optional) Vite di bloccaggio a scorrimento rapido con rivestimento anti-usura TiCN Quick-slide clamping screw with anti-wear coating TiCN	Cod. 7.65.0D2120 -TCN	7.65.0D2160 -TCN	7.65.0D2200 -TCN	7.65.0D2240 -TCN
<b>Art. 650E</b> Forcella - Yoke	Cod. 7.65.0E2000			
<b>Art. 950D</b> Ganascia lavorabile in acciaio Machineable steel jaw	Cod. 7.95.0D2000			
Tipo / Type	1	2		
<b>Art. 63</b> (Optional) Rialzo singolo con Zero Point Risers with ZeroPoint	Cod. 9.63.10000	9.63.20000		

## Art. 950

Tipo / Type 3



Tipo / Type 3	3x160	3x210	3x260	3x310	3x360
<b>Art. 650A</b> Corpo base - Base body	Cod. 7.65.0A3160	7.65.0A3210	7.65.0A3260	7.65.0A3260	7.65.0A3360
<b>Art. 950B</b> Ganascia integrale destra Solid jaw right hand	Cod. 7.95.0B3000				
<b>Art. 950C</b> Ganascia integrale sinistra Solid jaw left hand	Cod. 7.95.0C3000				
<b>Art. 650D</b> Vite di bloccaggio - Main screw	Cod. 7.65.0D3160	7.65.0D3210	7.65.0D3260	7.65.0D3310	7.65.0D3360
<b>Art.650DTiCN</b> (Optional) Vite di bloccaggio a scorrimento rapido con rivestimento anti-usura TiCN Quick-slide clamping screw with anti-wear coating TiCN	Cod. 7.65.0D3160 -TCN	7.65.0D3210 -TCN	7.65.0D3260 -TCN	7.65.0D3310 -TCN	7.65.0D3360 -TCN
<b>Art. 650E</b> Forcella - Yoke	Cod. 7.65.0E3000				
<b>Art. 950D</b> Ganascia lavorabile in acciaio Machineable steel jaw	Cod. 7.95.0D3000				
Tipo / Type	1	2			
<b>Art. 64</b> (Optional) Rialzo doppio con Zero Point Double riser with Zero Point	Cod. 9.64.10000	9.64.20000			
Non utilizzabile con morse tipo 3x160 - Impossible to use with vises type 3x160					
Piastra ZeroPoint, montaggio incassato - ZeroPoint Plates, built-in mounting					
<b>Art. 81P</b> (Optional) Piastra di interfaccia Zero Point per morse CompactGrip tipo 3 Zero Point connecting plate for CompactGrip vise Type 3	Acciaio Steel		Alluminio Aluminum		
	Cod. 9.81.P2040S2	9.81.P2040A2			
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
	<b>Art. 650S</b> 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
	<b>Art. 650R</b> *CODA DI RONDINE DOVE TAIL Miglior presa pezzo Best workpiece clamping			Cod. 7.65.0R1000    7.65.0R2000    7.65.0R3000 * 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)
	<b>Art. 650T G01</b> 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
	<b>Art. 650T G02</b> 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
	<b>Art. 650T G11</b> GRIP (Passo - Pitch 11mm) Per materiali teneri For soft material clamping			Cod. 7.65.0T1000/G11    7.65.0T2000/G11    7.65.0T3000/G11

## PIASTRINA FRONTALE FRONTAL JAW PLATE

**NEW**

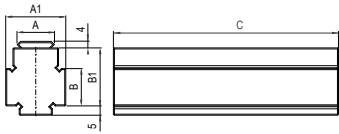
Tipo (grandezza) / Type (size)		1	2	3																																
	<b>Art. 655L</b> Piastrina LISCIA frontale con fori filettati M4 Frontal SMOOTH jaw plate with threaded holes M4		<table border="1"> <tr><td>W</td><td>50</td><td>80</td><td>115</td></tr> <tr><td>K</td><td>8</td><td>10</td><td>10</td>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

# GANASCIA FISSA CENTRALE PER MORSE COMPACT GRIP Art.650

## CENTRAL FIXED JAW FOR COMPACT GRIP VISES Art.650

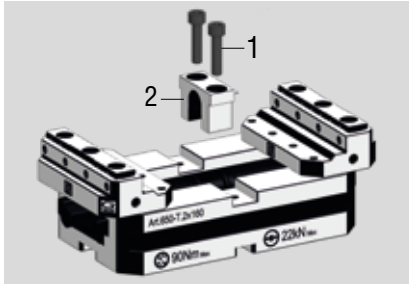
**NEW 2021**

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

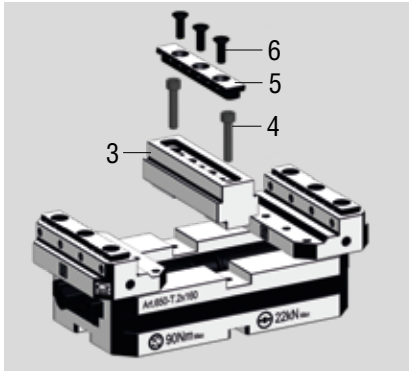
In fase d'ordine specificare il tipo di inserto - In case of order always specify the type of insert



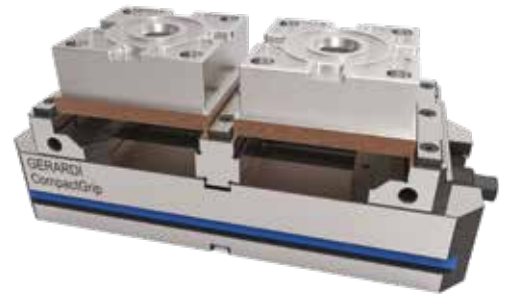
### 1 ISTRUZIONI OPERATIVE DI MONTAGGIO

#### ASSEMBLY INSTRUCTIONS

- Svitare le due viti (1) che bloccano la forcetta
- Estrarre la forcetta (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

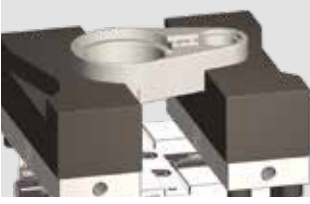
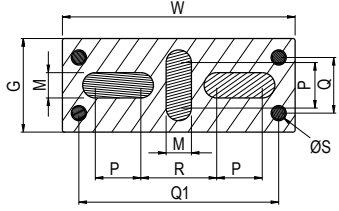
### INSERT JAWS FOR CENTRAL FIXED JAW

**NEW**
**7**

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

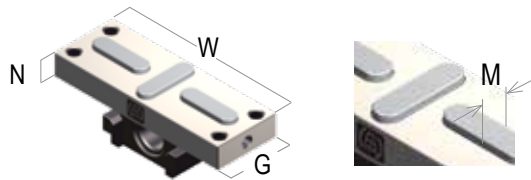
# ACCESSORI PER MORSE COMPACT GRIP Art.950

## 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

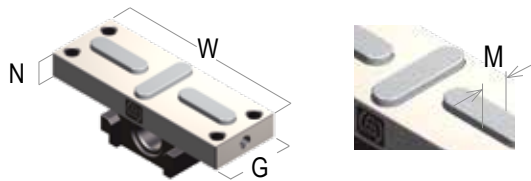
Slitta **DESTRA** con chiavette  
 Solid hardened slide **RIGHT HAND**  
 with positioning key nuts



N	15	20
Cod.	7.95.0B2000	7.95.0B3000

### Art. 950C

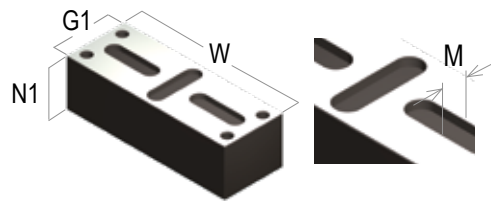
Slitta **SINISTRA** con chiavette  
 Solid hardened slide **LEFT HAND**  
 with positioning key nuts



N	15	20
Cod.	7.95.0C2000	7.95.0C3000

### Art. 950D\*

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

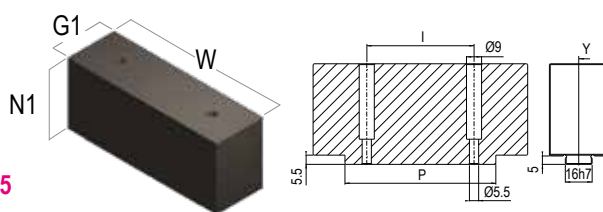


N1	30	47
Cod.	7.95.0D2000	7.95.0D3000

\* Viti per fissaggio a richiesta **€10**  
 Fixing screws on request **€10**

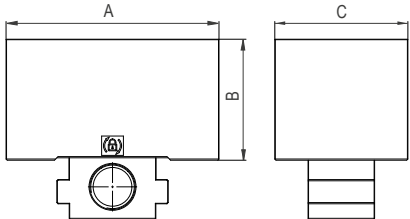
### Art. 950X\*

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 **€5**  
 Fixing screws on request **€5**

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
------	------------	------------



Cod.	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
------	------------	------------



Cod.	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
--------------------------------	---	---	---

### Art. 370EM

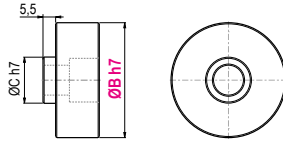
Arresto laterale magnetico  
Magnetic workstop



Cod. 7.37.01000/EM 7.37.02000/EM

### Art. 640P

Perno calibrato per centraggio  
Calibrated centering pin

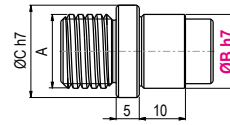


ØC h7 20  
 ØB 20 - 30 - 38,1(1,5") - 50 - 50,8 (2")  
 Cod. 7.64.0P100 7.64.0P200 7.64.0P300

\* Specificare sempre quota B - Specify always B dimension

### Art. 79

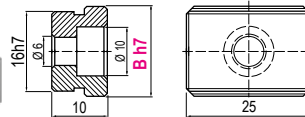
Perno calibrato per centraggio e orientamento  
Calibrated centering and orientation pin



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

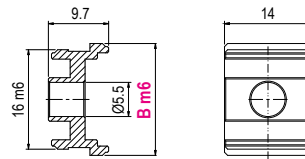


B 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 28 - 36  
 Cod. 2.29.71000/10 2.29.71000/16

### Art. 297X

NEW 2021

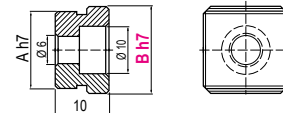
Tassello a Gioco Zero per il  
posizionamento preciso  
di morse singole su zero point  
Key nut NO-GAP for accurate  
single vise positioning on zero point



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

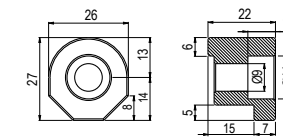


A	10	16
B	10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 28 - 36	
Cod.	7.65.0G1000/B	7.65.0G2000/B

Specificare sempre quota B - Specify always B dimension

### Art. 298 / CGR

Staffa per Compact Grip  
Compact Grip holding clamp



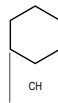
Cod. 7.29.81000/CGR

Tipo (grandezza) / Type (size)	1	2	3
--------------------------------	---	---	---

Dimensioni / Dimension	CH	B	CH	B	CH	B
------------------------	----	---	----	---	----	---

### Art.375

Chiave a pipa  
Box wrench

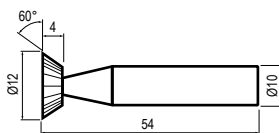


CH	10	12	16
B	160	160	250
Cod.	4.37.510160	4.37.512160	4.37.516250

### Art. 690DTF

NEW 2021

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



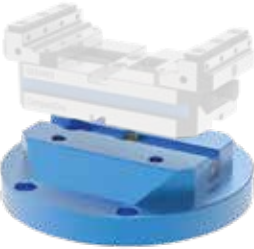
# RIALZI IN ALLUMINIO PER MORSE COMPACT GRIP ART.650 / 950

## ALUMINUM RISERS FOR COMPACT GRIP VISES ART.650 / 950

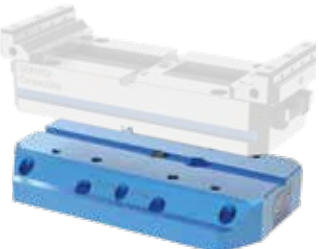


Tipo (grandezza) rialzo Riser (type) size		1												
<b>Art. 651H</b> Tipo / Type 1 Rialzo semplice, compatibile con il sistema Zero Point 	A	80				120				160				
	B	80				80				80				
	* C	50	75	100	50	75	100	50	75	100				
	ØD	128				178				178				
	E	-				150				150				
	L	52				52				52				
	M	52				52				52				
	ØJ	110				150				150				
	K	10				10				10				
	K1	-				16				16				
	kg	1,08	1,41	1,75	2,09	2,63	3,17	2,40	3,15	3,90				
	Cod.	7.65.1H1080/050	7.65.1H1080/075	7.65.1H1080/100	7.65.1H1120/050	7.65.1H1120/075	7.65.1H1120/100	7.65.1H1160/050	7.65.1H1160/075	7.65.1H1160/100				
	Simple riser Zero Point ready													

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

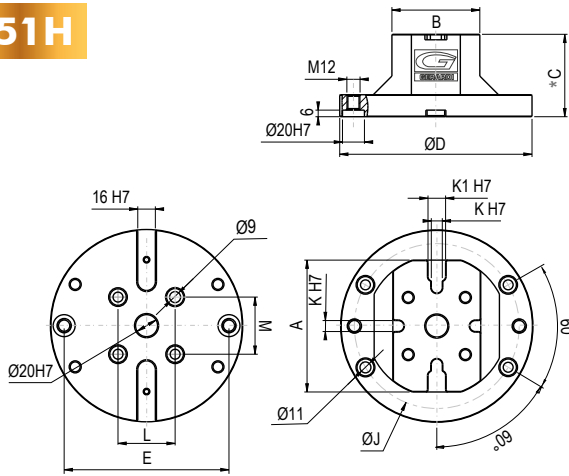
Tipo (grandezza) rialzo Riser (type) size		2													
<b>Art. 651H</b> Tipo / Type 2 Rialzo semplice, compatibile con il sistema Zero Point 	A	120				160				200				240	
	B	90				90				90				90	
	* C	50	75	100	50	75	100	50	75	100	50	75	100		
	ØD	210				210				210				249	
	E	-				150				150				200	
	L	65				65				65				65	
	M	90				90				90				150	
	ØJ	185				185				185				185	
	kg	3,07	3,71	4,32	3,09	3,90	4,73	3,38	4,45	5,52	4,13	5,45	6,75		
	Cod.	7.65.1H2120/050	7.65.1H2120/075	7.65.1H2120/100	7.65.1H2160/050	7.65.1H2160/075	7.65.1H2160/100	7.65.1H2200/050	7.65.1H2200/075	7.65.1H2200/100	7.65.1H2240/050	7.65.1H2240/075	7.65.1H2240/100		
	Simple riser Zero Point ready														

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

Tipo (grandezza) rialzo Riser (type) size		3															
<b>Art. 651H</b> Tipo / Type 3 Rialzo semplice, compatibile con il sistema Zero Point 	A	160				210				260				310		360	
	B	125				125				125				125		125	
	* C	50	75	100	50	75	100	50	75	100	50	75	100	50	75	100	
	ØD	240				240				332				327		373	
	E	150				150				150				150		200	
	E1	-				-				200				200		250	
	L	96				96				96				96		96	
	L1	-				-				-				100		100	
	M	96				96				96				96		96	
	M1	-				-				-				200		250	
	ØJ	185				185				185				185		185	
	ØJ1	-				-				290				290		290	
	kg	3,34	4,49	5,68	3,85	5,40	6,99	5,73	7,69	9,69	6,14	8,50	10,91	7,02	9,80	12,62	
	Cod.	7.65.1H3160/050	7.65.1H3160/075	7.65.1H3160/100	7.65.1H3210/050	7.65.1H3210/075	7.65.1H3210/100	7.65.1H3260/050	7.65.1H3260/075	7.65.1H3260/100	7.65.1H3310/050	7.65.1H3310/075	7.65.1H3310/100	7.65.1H3360/050	7.65.1H3360/075	7.65.1H3360/100	
	Simple riser Zero Point ready																

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

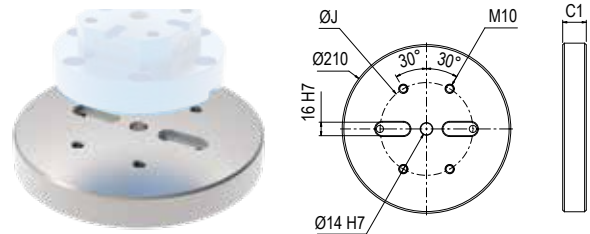
**NEW 2021**
**PIASTRE di INTERFACCIA**  
**INTERFACE PLATES**
**NEW 2021**
**Tipo (grandezza)**  
 Riser (type) size

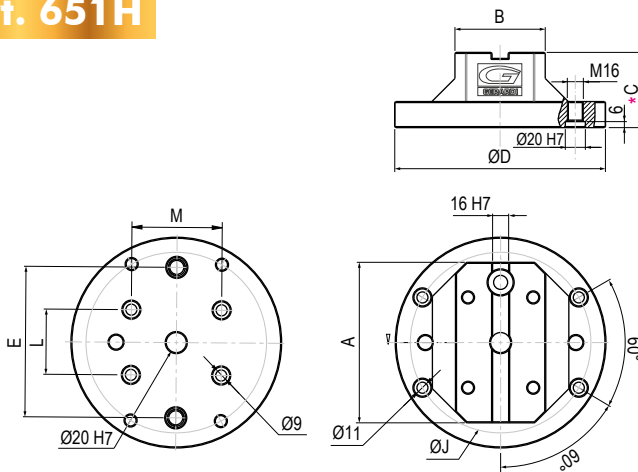
**1**
**Art. 651H**

**Tipo (grandezza)**  
 Riser (type) size

**1**
**Art. 62K**
**CompactGrip**

 Piastra di interfaccia lavorabile  
 Machineable interface plate

ØJ	110	150	150
C1	28		

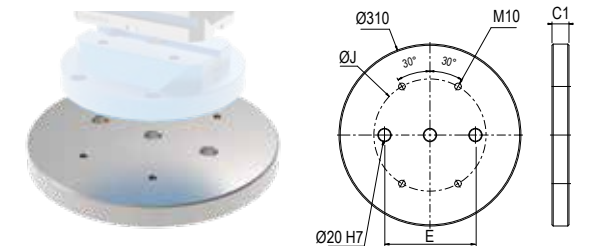
 Cod. [7.62.K651H21...](#)  
 .../108 .../112 .../116

 Kit di fissaggio al rialzo **incluso** / Riser fixing and positioning kit **included**
**Tipo (grandezza)**  
 Riser (type) size

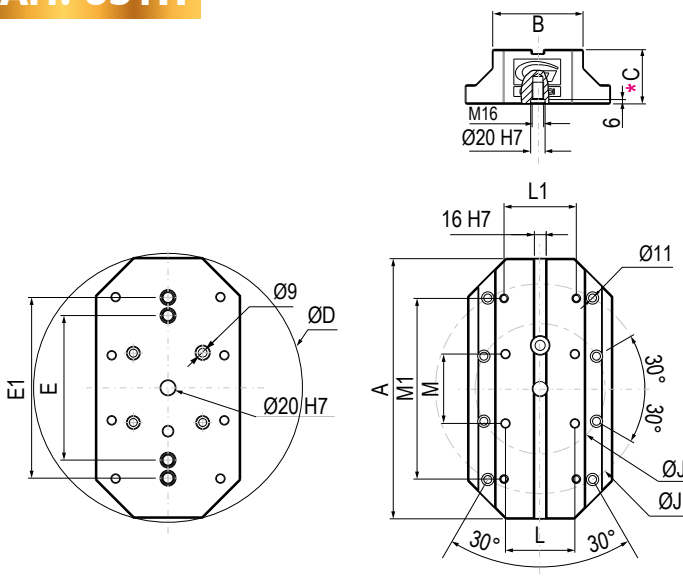
**2**
**Art. 651H**

**Tipo (grandezza)**  
 Riser (type) size

**2**
**Art. 62K**
**CompactGrip**

 Piastra di interfaccia lavorabile  
 Machineable interface plate

ØJ	185		
C1	28		
E	-	150	200

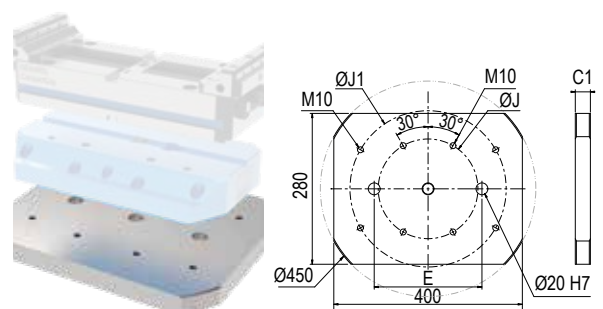
 Cod. [7.62.K651H31/](#)  
 .../212 .../216 .../220 .../224

 Kit di fissaggio al rialzo **incluso** / Riser fixing and positioning kit **included**
**Tipo (grandezza)**  
 Riser (type) size

**3**
**Art. 651H**

**Tipo (grandezza)**  
 Riser (type) size

**3**
**Art. 62K**
**CompactGrip**

 Piastra di interfaccia lavorabile  
 Machineable interface plate

ØJ	185			
C1	28			
J1	-	-	290	290
E	150	150	150	200

 Cod. [7.62.K651H45/](#)  
 .../316 .../321 .../326 .../331 .../336

 Kit di fissaggio al rialzo **incluso** / Riser fixing and positioning kit **included**

# TAVOLA CAMBIO RAPIDO PER MORSE COMPACT GRIP

## QUICK CHANGE TABLE FOR COMPACT GRIP VISES


**NEW**

Per Morse Tipo - For Vises Type	1 - 2	3
<b>INTERASSE - PITCH</b>	<b>52</b>	<b>96</b>
<b>Art. 660</b>		
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

Tavola Cambio rapido meccanica rettangolare



Mechanical quick change rectangular table

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

Per Morse Tipo - For Vises Type	1 - 2	3
<b>INTERASSE - PITCH</b>	<b>52</b>	<b>96</b>
<b>Art. 660S*</b>		
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

Tavola Cambio rapido meccanica rettangolare temprata con parte lavorabile senza fori



Mechanical quick change hardened with machineable part holes free rectangular 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	1 - 2 - 3
<b>INTERASSE - PITCH</b>	<b>52</b>
<b>Art. 660R</b>	
B	96
C	27
D	126
E	150
F	52
L	Ø12h7
L1	M8
kg	3,75
Cod.	9.66.0R210

Tavola Cambio rapido meccanica rettangolare di riduzione



Mechanical quick change rectangular reduction table

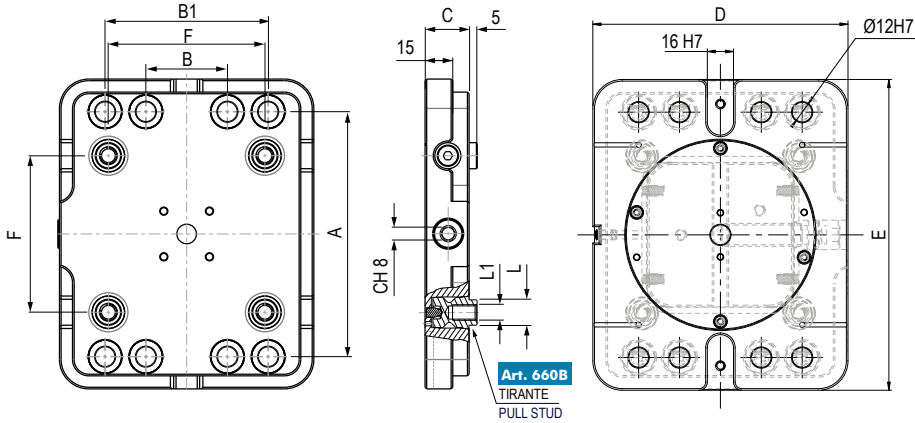
**\*NON DISPONIBILE PER IL MERCATO TEDESCO E AUSTRIACO - \*NOT AVAILABLE FOR GERMAN AND AUSTRIAN MARKET**

# TAVOLA CAMBIO RAPIDO PER MORSE COMPACT GRIP

## QUICK CHANGE TABLE FOR COMPACT GRIP VISES

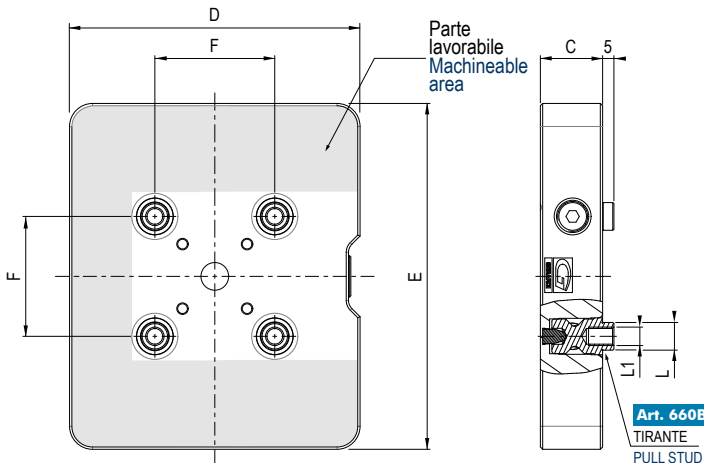
### Art. 660

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



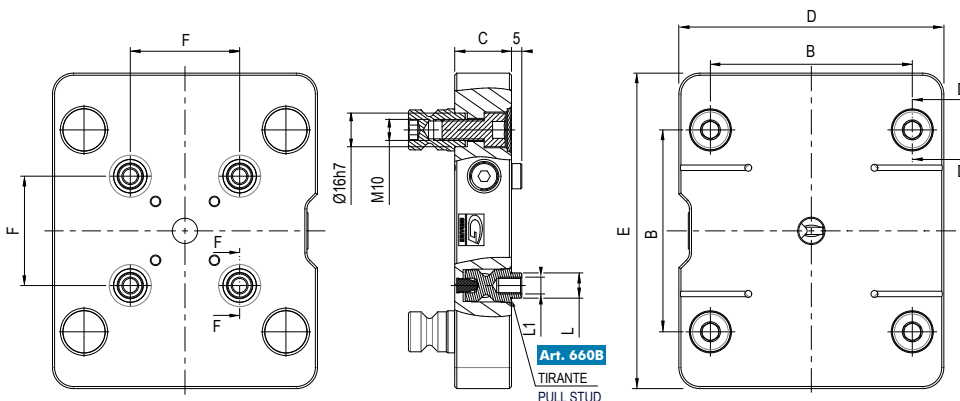
### Art. 660S

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


**NEW**

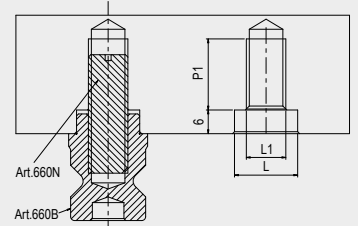
### Art. 660B

Tiranti per tavola cambio rapido  
 Quick change table pull studs



Tipo - Type 1

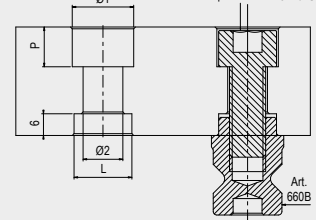
Tipo - Type 2



Art.660N

Art.660B

Vite testa cilindrica esagono incassato  
 Socket head cap screws DIN912 / ISO4762



Art. 660B

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





# TAVOLA CAMBIO RAPIDO PER MORSE COMPACT GRIP

## QUICK CHANGE TABLE FOR COMPACT GRIP VISES


**NEW**

Per Morse Tipo - For Vises Type	1 - 2	3
INTERASSE - PITCH	52	96
<b>Art. 661</b>		
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

**Art. 661**

Tavola Cambio rapido meccanica tonda



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	1 - 2	3
INTERASSE - PITCH	52	96
<b>Art. 661S*</b>		
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

**Art. 661S\***

Tavola Cambio rapido meccanica tonda temprata con parte lavorabile senza fori



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	1 - 2 - 3
INTERASSE - PITCH	52 - 96
<b>Art. 661R</b>	
ØA	158
B	96
C	27
F	52
L	Ø12h7
L1	M8
kg	3,75
Cod.	9.66.1R210

**Art. 661R**

Tavola Cambio rapido meccanica tonda di riduzione



Round mechanical quick change reduction table

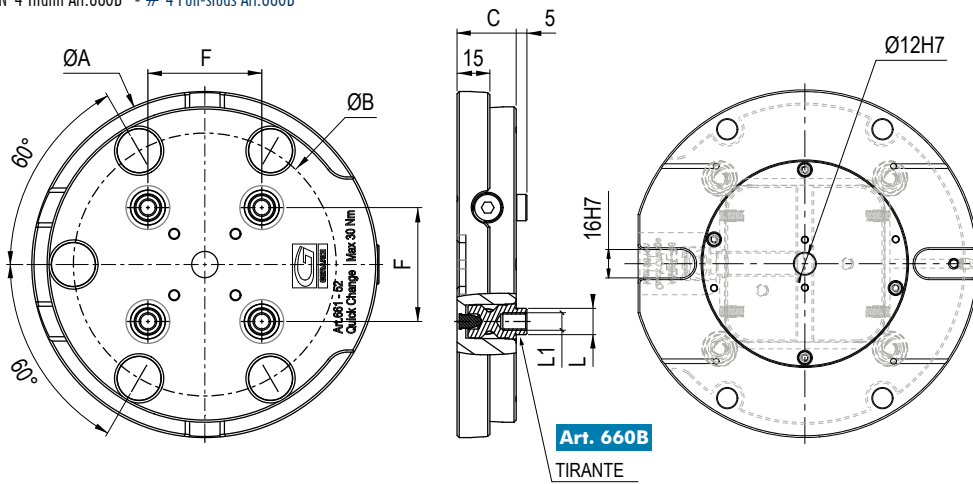
**\*NON DISPONIBILE PER IL MERCATO TEDESCO E AUSTRIACO - \*NOT AVAILABLE FOR GERMAN AND AUSTRIAN MARKET**

# TAVOLA CAMBIO RAPIDO PER MORSE COMPACT GRIP

## QUICK CHANGE TABLE FOR COMPACT GRIP VICES

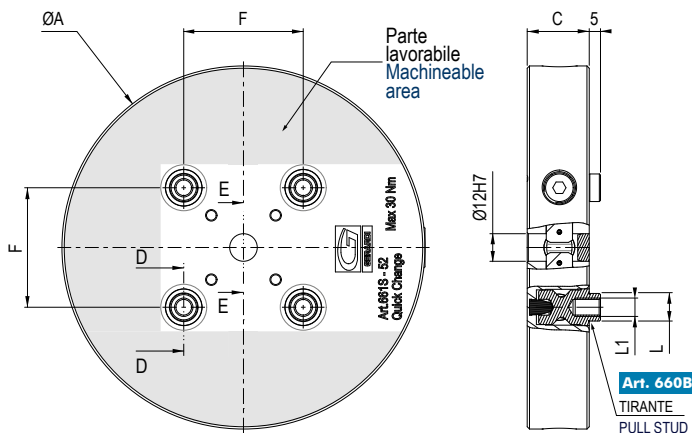
### Art. 661

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



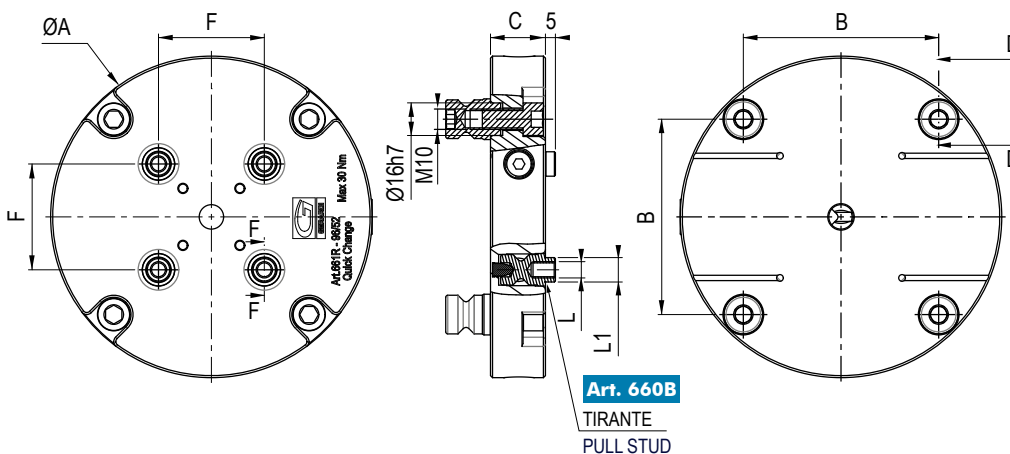
### Art. 661S

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


**NEW**

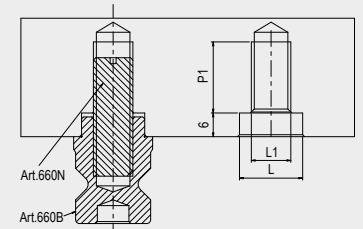
### Art. 660B

Tiranti per tavola cambio rapido  
 Quick change table pull studs

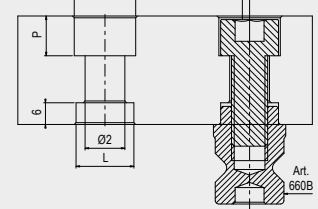


Tipo - Type 1

Tipo - Type 2



Vite testa cilindrica esagono incassato  
 Socket head cap screws DIN912 / ISO4762



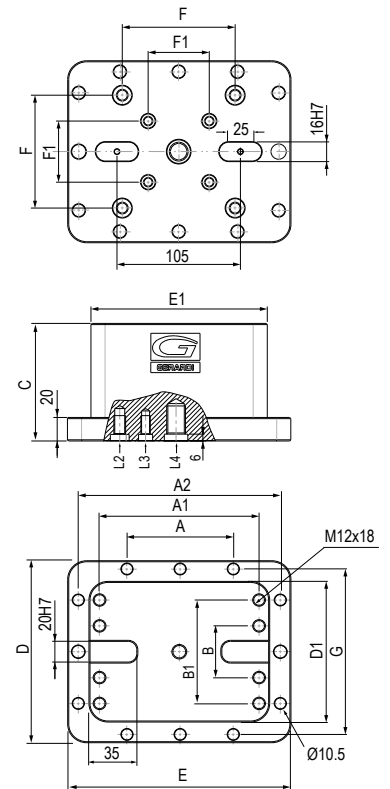
Type	1	2
L	Ø12 h7	Ø16 h7
L1	M8	M10
Ø1	14	17
Ø2	9	11
P	9	11
P1	12	18
Code	9.66.0B100	9.66.0B200



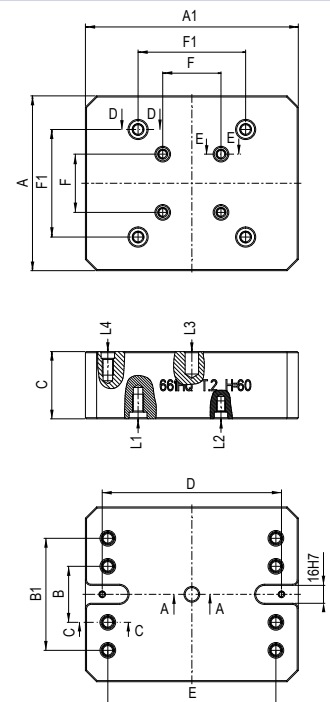
# RIALZI SEMPLICI IN ALLUMINIO PER TAVOLA A CAMBIO RAPIDO

## SIMPLE ALUMINUM RISERS for QUICK CHANGE TABLE

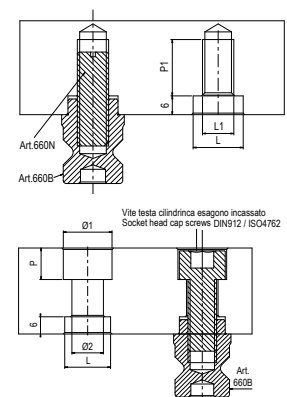
Per Morse Tipo - For Vises Type	1 - 2		3
INTERASSE - PITCH	52		96
<b>Art. 661H</b>			
Rialzo base in alluminio per tavola cambio rapido, possibilità di montaggio con staffe o tramite Zero Point			
	A	100	100
	A1	-	150
	A2	170	190
	B	50	50
	B1	-	100
	C	100	100
	D	156	176
	D1	116	136
	E	190	210
	E1	150	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.	9.66.1H520/100	9.66.1H960/100


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

Per Morse Tipo - For Vises Type	1 - 2		3	
INTERASSE - PITCH	52		96	
<b>Art. 661HQ</b>				
Rialzo semplice in alluminio per tavola cambio rapido				
	A	116	156	
	A1	150	150	
	B	50	50	
	B1	-	100	
	C	60	100	60
	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	1	2	
<b>Art. 660B</b>			
Tiranti per tavola cambio rapido			
	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**

<b>Tipo (grandezza) / Type (size)</b>	<b>1</b>
<b>PIANO INCLINATO - GRADE SIDE</b>	<b>30°</b>

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

### 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



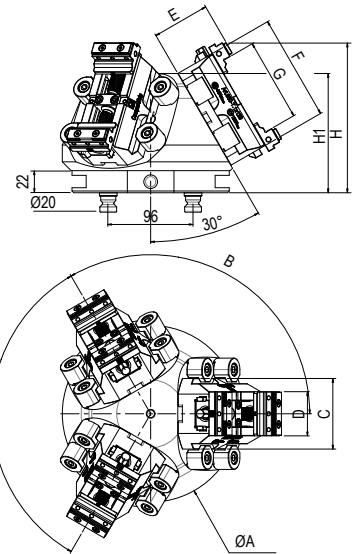
Dotazione standard

- 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	<b>Art.650 T.1x80/120</b>
ØA	200
B	120°
C	80
D	50
E	65
F	120
G	94
H	169,4
H1	135
kg	6,8
Cod.	7.64.3H100



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

### 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



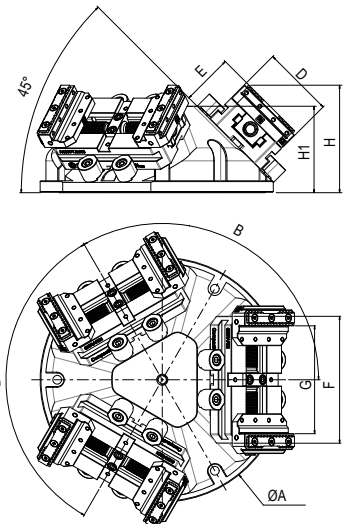
Dotazione standard

- 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 of keynuts Art.287

Multitasking	<b>Art.640 - T.1</b>
Compact Grip	<b>Art.650 T.2x120/160/200 - Art.950 T.2x120/160/200</b>
ØA	308
B	120°
C	-
D	90
E	65
F	160
G	136
H	135,5
H1	109
kg	11,9
Cod.	7.64.3H200

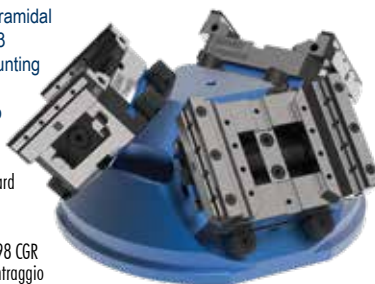


<b>Tipo (grandezza) / Type (size)</b>	<b>3</b>
<b>PIANO INCLINATO - GRADE SIDE</b>	<b>45°</b>

### 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



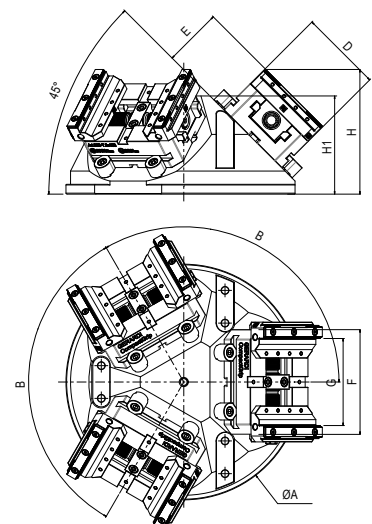
Dotazione standard

- 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 of keynuts Art.287

Multitasking	-
Compact Grip	<b>Art.650 T.3x160/210 - Art.950 T.3x160/210</b>
ØA	360
B	120°
C	-
D	125
E	89
F	160
G	133
H	190,5
H1	150
kg	20,8
Cod.	7.64.3H300



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

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



# 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
<b>Art. 72P</b>									
ØA		280		500		500		420	
B		-		380		400		-	
C		83		83		83		83	
P		-		200		200		200	
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 **SOVRAPREZZO / 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
<b>Art. 82P</b>									
ØA		280		500		500		420	
B		-		380		400		-	
C		58		58		58		58	
P		-		200 / 250		200 / 250		200	
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 **SOVRAPREZZO / 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
<b>Art. 62iC</b>									
<b>Art. 62iE</b>									
ØA		400		500		630		800	
B		-		400		500		630	
C		38		38		38		38	
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

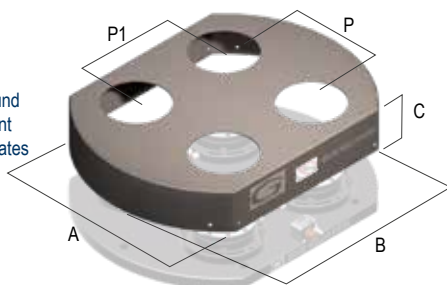
DMG DMU 50		Haas UMC 750		Mazak Variax 630		DMG DMU 70 Evo		DMG DMC 635V		DMG DMC 1035V		DMG DMU 80P	
Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum	Steel	Aluminum
630		630		630		700		790		1000		900	
500		500		500		500		560		560		630	
58		58		58		58		58		58		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

**Art. 72CP**

 Carter in acciaio INOX  
 per piastre tonde  
 interfacciate con  
 Zero Point

 Stainless steel round  
 cover for Zero Point  
 interfaced head plates


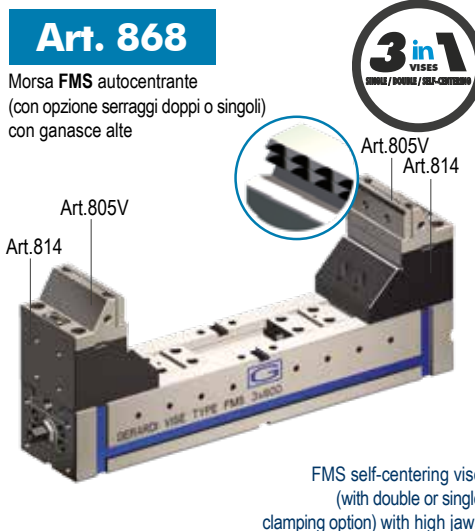
	Steel	Steel	Steel	Steel
ØA	420	500	630	800
B	-	400	500	630
C	78	78	78	78
P	200	250	300	300
P1	200	250	300	300
kg			-	-

Cod. 9.72.CP42424 9.72.CP50404 9.72.CP63504 9.72.CP80634

Tipo (grandezza) morsa / Vise type (size)	1		2				3	
	25 kN		25 kN				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. 868D**

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

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

**Art. 802**

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

Cod.	5.80.21000	5.80.22000	5.80.23000
------	------------	------------	------------

**Art. 868E**

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

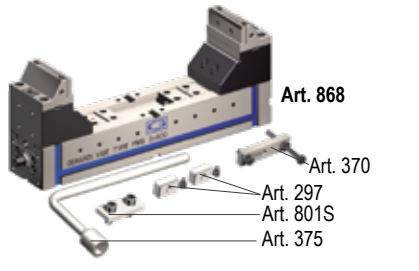
Cod.	5.86.8E120	5.86.8E130	5.86.8E230	5.86.8E240	5.86.8E250	5.86.8E260	5.86.8E340	5.86.8E350
------	------------	------------	------------	------------	------------	------------	------------	------------

**Art. 868F**

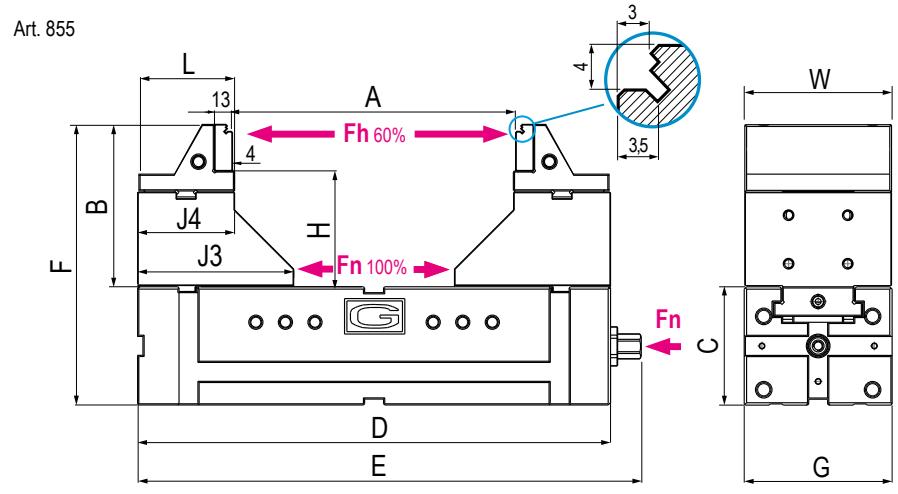
(Art. 868 + 890 + 266B) Morsa + motore idraulico + centralina / Vise + hydraulic motor + power unit

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

- Dotazione standard:
- 1 arresti laterali Art. 370
  - 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
  - 1 chiave a pipa Art. 375
  - 1 piastrina di collegamento Art. 801S



- Standard equipment:
- 1 workstops Art. 370
  - 1 pair of positioning key-nuts for 16 mm slot Art. 297
  - 1 box wrench Art. 375
  - 1 connecting plate Art. 801S



	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	5.86.86800	5.86.86900	5.86.86100
------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------	------------

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

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

**Art. 802** Moltiplicatore di coppia con rinvio angolare - Mechanical with torque multiplier with angular transmission

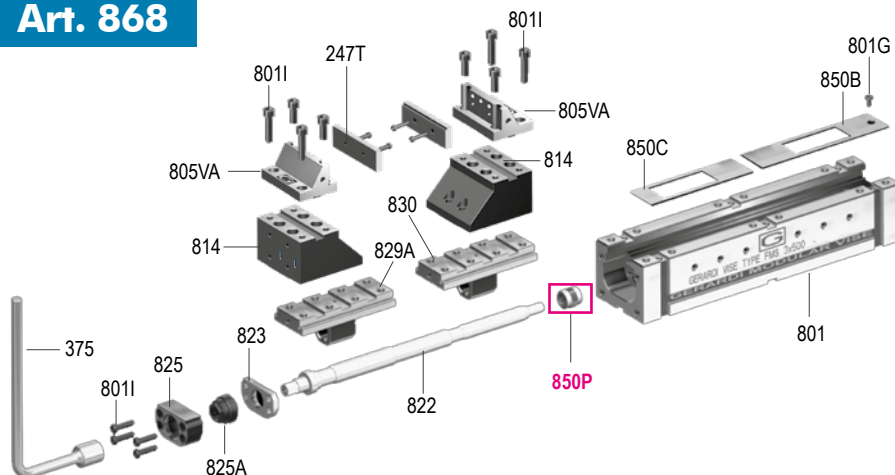
5.80.23000	5.80.24000	5.80.25000	5.80.26000
------------	------------	------------	------------

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

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

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

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

**Art. 868**


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



## Automatic Vises

# GRIPMATIC

### Morse Automatiche per centri di lavoro automatizzati

Automatic vises system for automatic machine centre



Precisione / Accuracy  
 $\pm 0,02\text{mm}$



Durezza / Hardened  
**HRC 58 $\pm$ 2**

#### CARATTERISTICHE & VANTAGGI

- ✓ USURA INESISTENTE
- ✓ RAPIDITA' DEI SERRAGGI
- ✓ PNEUMATICA O IDRAULICA
- ✓ UTILIZZO NON PRESIDATO
- ✓ CONTROLLABILE DA CNC
- ✓ CARICO E SCARICO TRAMITE ROBOT
- ✓ PRECISIONI  $\pm 0,02\text{ mm}$
- ✓ 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  $\pm 0,02\text{ mm}$
- ✓ RIGIDITY & SAFETY
- ✓ SELF-CENTERING



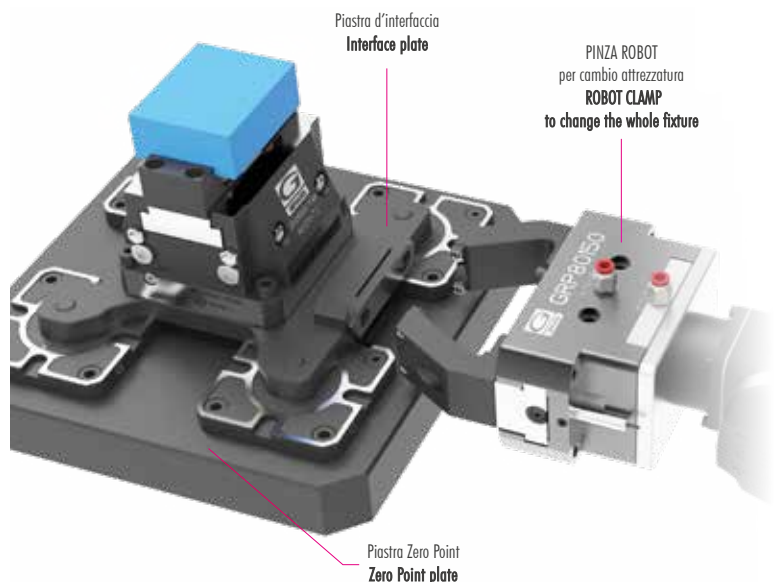
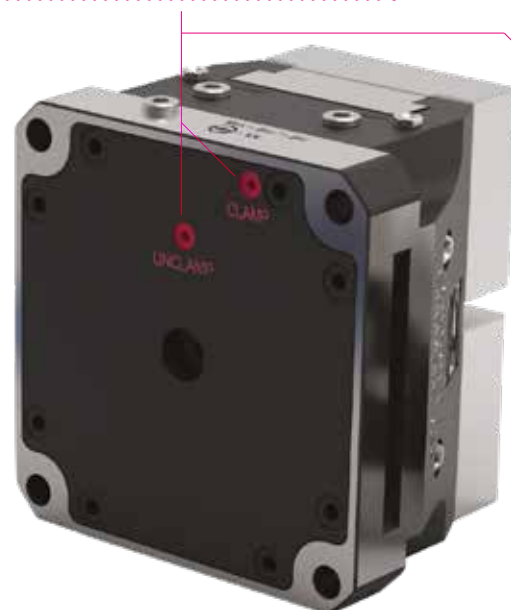
**PNEUMATICA A DOPPIO EFFETTO O IDRAULICA**  
 PNEUMATIC DOUBLE EFFECT OR HYDRAULIC



#### **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

Configured 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 automatic workpiece loading by robot.



Il funzionamento pneumatico o idraulico delle morse GRIPMATIC, grazie ad un pistone a doppio effetto garantisce una completa gestione in automatico delle morse. La notevole modularità permette inoltre di utilizzarle su qualunque tipologia di macchina e grazie alla predisposizione e la completa gestione tramite CNC, si ha la possibilità di automatizzare i processi di serraggio incrementando così la produttività della vostra officina.

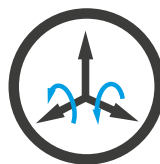
The pneumatic or hydraulic activation of GRIPMATIC vises is made through a double effect piston that grants the complete managing of the vise. One of the main features is modularity that allows this kind of vise to be used on any type of machine and, thanks to its configuration and complete handling by CNC, it is also possible to automate the clamping process so increasing the productivity of your company.



## 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	5,1 kN	15 kN
T.3	16 kN	32 kN
T.4	22 kN	43 kN



#### Predisposizione Zero Point Zero Point Ready

Predisposizione per il posizionamento rapido e preciso della morse 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		5,1	16	22	
<b>Art. 670PN</b>	Stroke Art.671A/B	A	6,4 / 6,9	8,5 / 10,5	12 / 13,1
		A1	58,8	106,5	124,5
		B	25	30	35
		C	80	105	130
		D	106	166	206
		E	52	78	96
		G	10	12	16
		H	90	140	170
		W	74	99	124
		kg	6,5	20	38
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

**NEW 2021**
**AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !**

<b>Art. 671A</b>		Cod.	7.67.1A200	7.67.1A300	7.67.1A400
Ganascia lavorabile Soft jaw					
<b>Art. 671B</b>		Cod.	7.67.1B200	7.67.1B300	7.67.1B400
Ganascia lavorabile ridotta Soft narrow jaw					
<b>Art. 671C</b>		Cod.	7.67.1C200	7.67.1C300	7.67.1C400
Ganascia predisposta per piastre <b>ganacce standard ridotte</b> Jaw for <b>narrow width standard</b> jaw plates					
<b>Art. 243</b>		Cod.	1.65.17000	1.65.27000	1.65.37000
Piastra ganascia piana rigata temprata Hardened grooved straight jaw plate					
<b>Art. 245</b>		Cod.	4.24.51000	4.24.52000	4.24.53000
Piastra ganascia piana liscia temprata Hardened smooth straight jaw plate					
<b>Art. 247G</b>		Cod.	1.24.7G100	1.24.7G200	1.24.7G300
Piastra piana con inserti GRIP Straight plate with GRIP inserts					

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)



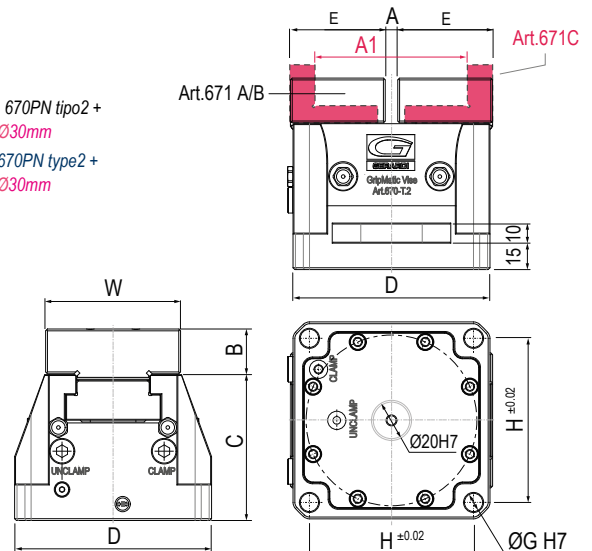
Standard equipment:

- 1 centering pin Art.670P\*
- N. 4 shoulder screw Art. 83
- No return valve Art.PN16
- N.2 Straight male adaptors 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		25		45	
		15		25		45	
<b>Art. 670ID</b>	Stroke Art.671A/B	A	6,4 / 6,9	8,5 / 10,5	12 / 13,1		
		A1	58,8	106,5	124,5		
		B	25	30	35		
		C	80	105	130		
		D	106	166	206		
		E	52	78	96		
		G	10	12	16		
		H	90	140	170		
		W	74	99	124		
		kg		6,5	20	38	
	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

**NEW 2021**



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 !**

<b>Art. 671A</b>		Cod.	7.67.1A200	7.67.1A300	7.67.1A400
Ganascia lavorabile Soft jaw					
<b>Art. 671B</b>		Cod.	7.67.1B200	7.67.1B300	7.67.1B400
Ganascia lavorabile ridotta Soft narrow jaw					
<b>Art. 671C</b>		Cod.	7.67.1C200	7.67.1C300	7.67.1C400
Ganascia predisposta per piastre ganasce standard ridotte Jaw for narrow width standard jaw plates					
<b>Art. 243</b>		Cod.	1.65.17000	1.65.27000	1.65.37000
Piastra ganascia piana rigata temprata Hardened grooved straight jaw plate					
<b>Art. 245</b>		Cod.	4.24.51000	4.24.52000	4.24.53000
Piastra ganascia piana liscia temprata Hardened smooth straight jaw plate					
<b>Art. 247G</b>		Cod.	1.24.7G100	1.24.7G200	1.24.7G300
Piastra piana con inserti GRIP Straight plate with GRIP inserts					

**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:**

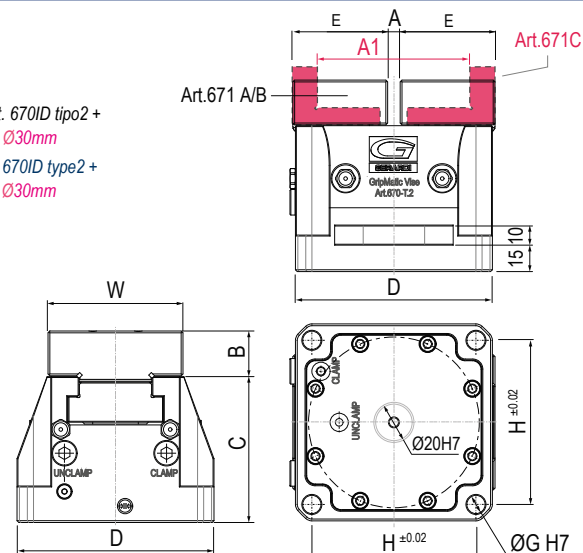
- 1 centering pin Art.640P\*
- N. 4 shoulder screw Art. 83
- N.2 Niplon

\* (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		2	3	4
		5,1 - 15	16 - 25	22 - 45
<b>Art. 670CP</b> 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



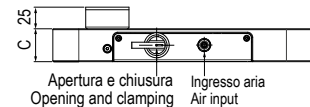
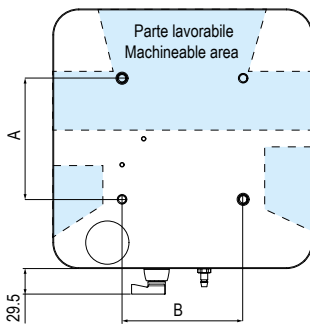
Art.670PN



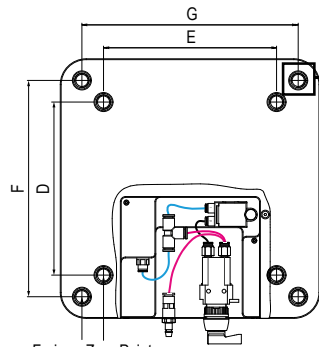
Art.670CP

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

Selettore - selector


 Apertura e chiusura / Opening and clamping  
 Ingresso aria / Air input


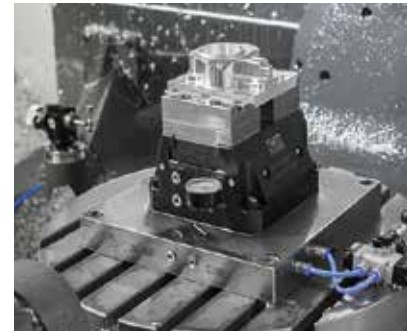
Parte lavorabile / Machineable area



Fori per Zero Point / Holes for Zero Point table



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

**7**

## PIASTRE DI INTERFACCIA PERSONALIZZATE PER MORSE GRIPMATIC

### CUSTOMIZED INTERFACED PLATES FOR GRIPMATIC VISES

**NEW 2021**

Tipo (grandezza) morsa / Vise (type) size		2	3	4
		5,1 - 15	16 - 25	22 - 45
<b>Art. 670AP</b> AUTOMATICA AUTOMATIC	A	90	140	170
	B	90	140	170
	C	-	38	-
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)

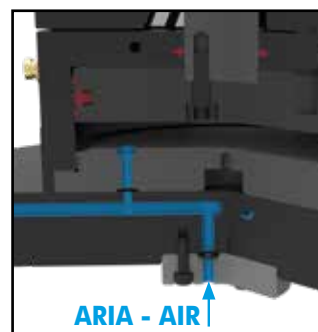


Art.670ID/PN

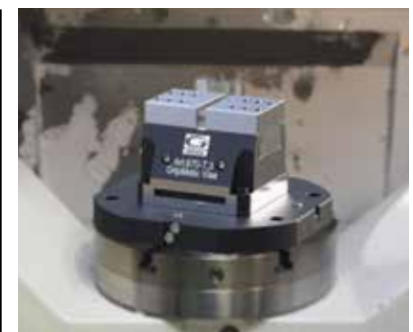


Art.670AP

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

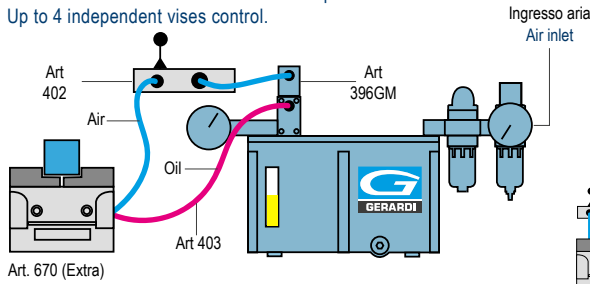
	2	3	4
kN	5,1 - 15	16 - 25	22 - 45

### Art.394 GM

#### COMANDO PNEUMATICO PNEUMATIC CONTROL

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

1 MORSA / 1 VISES - (1 Art.402 - 1 Art.403 - 1 Art.396GM)

Cod. 7.39.4GM331

2 MORSE / 2 VISES - (2 Art.402 - 2 Art.403 - 2 Art.396GM)

Cod. 7.39.4GM332

3 MORSE / 3 VISES - (3 Art.402 - 3 Art.403 - 3 Art.396GM)

Cod. 7.39.4GM333

4 MORSE / 4 VISES - (4 Art.402 - 4 Art.403 - 4 Art.396GM)

Cod. 7.39.4GM334

Tipo (grandezza) morsa / Vise (type) size

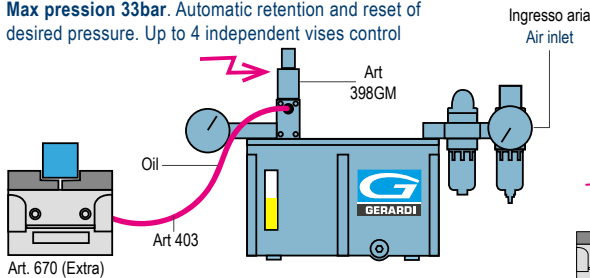
	2	3	4
kN	5,1 - 15	16 - 25	22 - 45

### Art.395 GM

#### COMANDO ELETTRICO ELECTRIC CONTROL

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

1 MORSA / 1 VISES - (1 Art.403 - 1 Art.398GM)

Cod. 7.39.5GM331

2 MORSE / 2 VISES - (2 Art.403 - 2 Art.398GM)

Cod. 7.39.5GM332

3 MORSE / 3 VISES - (3 Art.403 - 3 Art.398GM)

Cod. 7.39.5GM333

4 MORSE / 4 VISES - (4 Art.403 - 4 Art.398GM)

Cod. 7.39.5GM334

### 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


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

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

#### 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


 Pressostato  
 Pressurestat

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																												
<b>Art. 671A*</b> Ganaschia mobile lavorabile Soft movable jaw Materiale temprabile 20MnCr5 Hardenable material 20MnCr5		<table border="1"> <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																												
<b>Art. 671B*</b> Ganaschia mobile lavorabile ridotta Soft narrow movable jaw Materiale temprabile 20MnCr5 Hardenable material 20MnCr5		<table border="1"> <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																												
<b>Art. 671C*</b> Ganaschia mobile predisposta per piastre ganasce standard ridotte Movable jaw for narrow standard jaw plates * Viti per fissaggio a richiesta Fixing screws on request		<table border="1"> <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																												
<b>Art. 243*</b> Piastra ganaschia piana rigata temprata Hardened grooved straight jaw plate * Viti per fissaggio a richiesta Fixing screws on request		<table border="1"> <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																												
<b>Art. 245*</b> Piastra ganaschia piana liscia temprata Hardened smooth straight jaw plate * Viti per fissaggio a richiesta Fixing screws on request		<table border="1"> <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																												
<b>Art. 247G*</b> Piastra piana con inserti GRIP Straight plate with GRIP inserts * Viti per fissaggio a richiesta Fixing screws on request		<table border="1"> <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																												
<b>Art. PN16</b> Valvola direzionale di non ritorno - 1/8" Gas Unidirectional check valve - 1/8" Gas		<table border="1"> <tr><td>Cod.</td><td>9.PN.16000</td></tr> </table>	Cod.	9.PN.16000																											
Cod.	9.PN.16000																														
<b>Art. PN20</b> Raccordo a Y Ø6 - Ø8 Y adaptor Ø6 - Ø8		<table border="1"> <tr><td>Cod.</td><td>9.PN.20006/8</td></tr> </table>	Cod.	9.PN.20006/8																											
Cod.	9.PN.20006/8																														
<b>Art. 83</b> Vite Calibrata a colletto Shoulder calibrated screw		<table border="1"> <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																												
<b>Art. 670IDL</b> Adattatore per innesto diretto Direct input adaptor		<table border="1"> <tr><td>Cod.</td><td>7.67.0IDL20</td><td>7.67.0IDL30</td></tr> </table>	Cod.	7.67.0IDL20	7.67.0IDL30																										
Cod.	7.67.0IDL20	7.67.0IDL30																													
<b>Art. 670P</b> Perno di centraggio Straight pin		<table border="1"> <tr><td>ØB</td><td>20 - 30 - 38,1 - 50 - 50,8</td></tr> <tr><td>Cod.</td><td>7.67.0P3000</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

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*



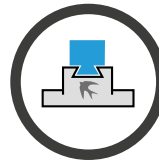
#### Serraggio ad incastro e rilascio graduale

*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 una 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.

SCAN IT TO WATCH THE

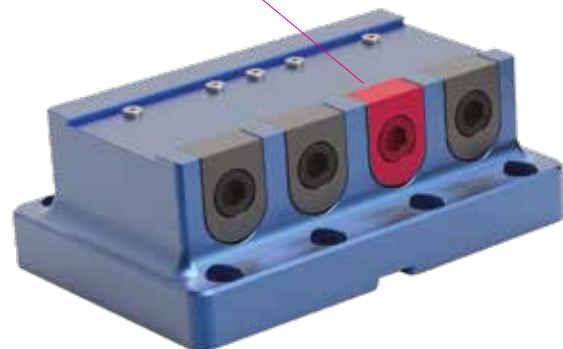


VIDEO PRESENTATION



**Art. 950**

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



7

#### 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.

#### 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**

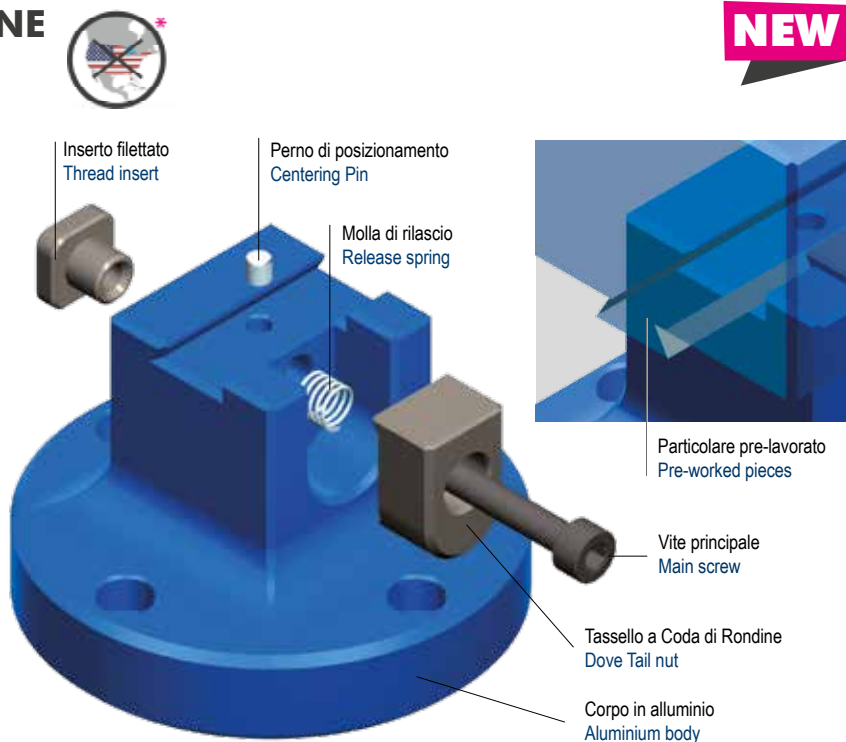
Il sistema a Coda di Rondine è progettato specificatamente per le lavorazioni su centri a 5 assi.

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

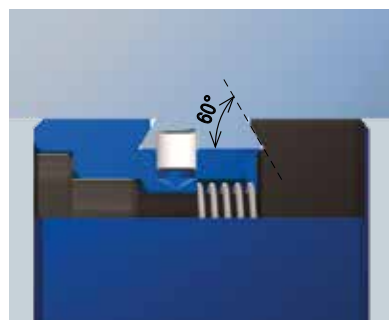
Il sistema Coda di Rondine è compatibile con l'ampia gamma di attrezzature Gerardi, in particolare con il sistema Zero Point e tavole a cambio rapido ed è possibile applicarlo sui più conosciuti centri di lavoro al mondo.

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.


**NEW**

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

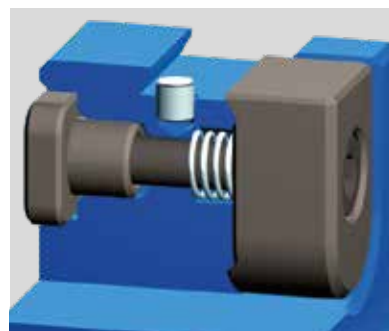


### 1 PREDISPOSIZIONE CODA DI RONDINE DOVE TAIL SET-UP



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

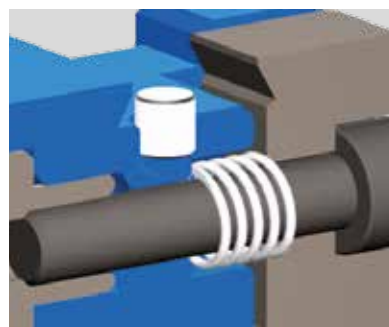
Each workpiece can be clamped on the Dove Tail system machining firstly the lower face through the proper milling cutter in order to create a 3mm height shape with a 60° angle.



### 2 PERNO DI POSIZIONAMENTO CENTERING PIN

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

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



### 3 SERRAGGIO & RILASCIO GRADUALE CLAMPING & GRADUAL RELEASE

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

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



# SISTEMA A CODA DI RONDINE in ALLUMINIO

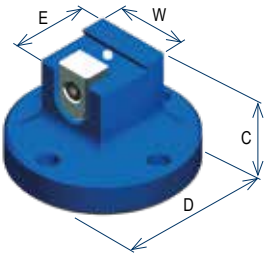
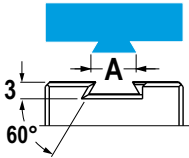
## ALUMINIUM DOVE TAIL FIXTURES


**NEW**

Tipo (grandezza) - (type) size (inch)		1	2	3	4	5	6
Grandezza coda di rondine - Dove tail dimension	A"	0,281"	0,375"	0,5"	0,75"	1,5"	2,25"
Grandezza coda di rondine - Dove tail dimension	A	7,14	9,53	12,7	19,5	38,1	57,15
	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**

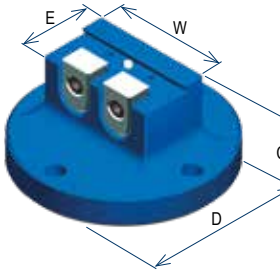
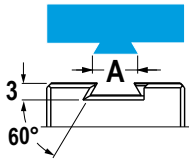
Tipo / Type 3


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

Tipo (grandezza) - (type) size (inch)		1	2	3	4	5	6
Grandezza coda di rondine - Dove tail dimension	A"	0,281"	0,375"	0,5"	0,75"	1,5"	2,25"
Grandezza coda di rondine - Dove tail dimension	A	7,14	9,53	12,7	19,5	38,1	57,15
	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**
**DOPIO - DOUBLE**

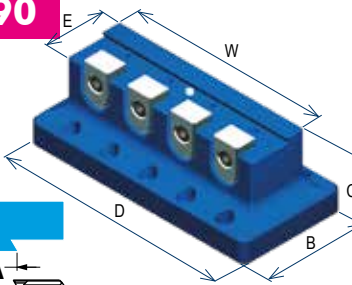
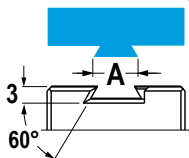
Tipo / Type 3


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

Tipo (grandezza) - (type) size (inch)		1	2	3	4	5	6
Grandezza coda di rondine - Dove tail dimension	A"	0,281"	0,375"	0,5"	0,75"	1,5"	2,25"
Grandezza coda di rondine - Dove tail dimension	A	7,14	9,53	12,7	19,5	38,1	57,15
	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
€		-	-	921*	1.708*	1.708*	1.708*

**Art.690**
**MULTIPLIO MULTIPLE**

Tipo / Type 3


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

	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

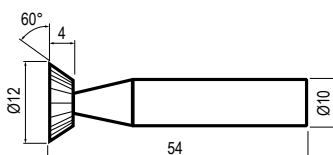
**Art.690G**

 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**




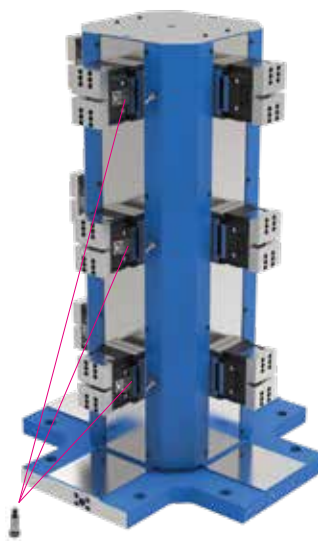
	1	2	3	4	5	6
Cod.	7.69.0DTF10					

**Art.690DTF**

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


## PREDISPOSIZIONE e MONTAGGIO MORSE su SPALLE LAVORATE

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

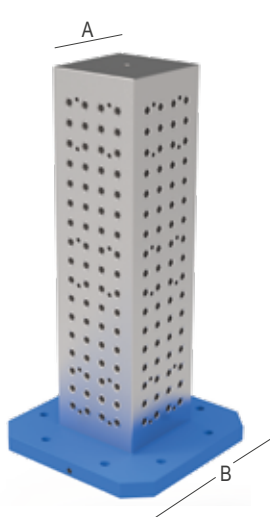

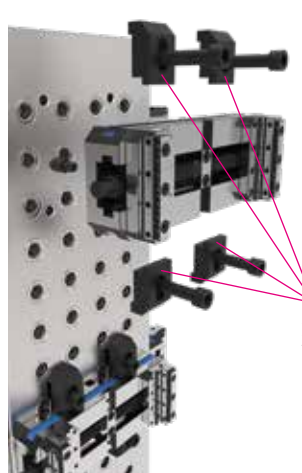
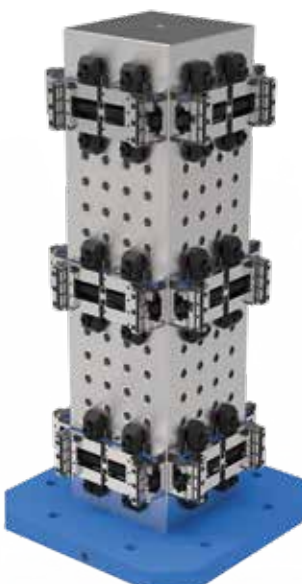
Cubo lavorato Art.57C Machined cube Art.57C	Tipo di morsa Vise type	Predisposizione e montaggio* Set-up & Mounting*	Cubo con morse Cube with vises
Cod. 8.57.C00140 Dim. A=300 / B=630 / E=150 / H=950 	Art.670 Type 2 + 2x Art.671A   n°morse Vises n° <b>x 12</b>	<p style="color: red;">Per morsa / each vise</p>   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.	 Art.83

\* Predisposizione lato cubo, montaggio ed allineamento morsa 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   n°morse Vises n° <b>x 12</b>	<p style="color: red;">Per morsa / each vise</p>  Art. 296	

\* Montaggio ed allineamento morsa 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

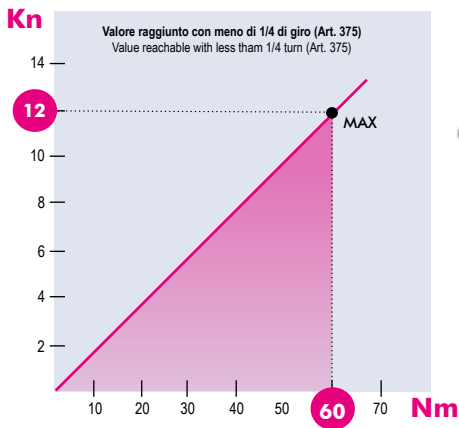
## Multitasking

### Diagrammi di serraggio meccanico con chiave dinamometrica Mechanical clamping diagrams with torque wrench

**Art. 357**

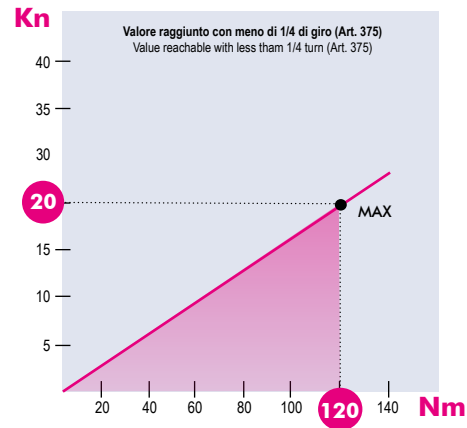
#### Morse tipo Vises type

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

**1**

**Art. 357**

#### Morse tipo Vises type

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

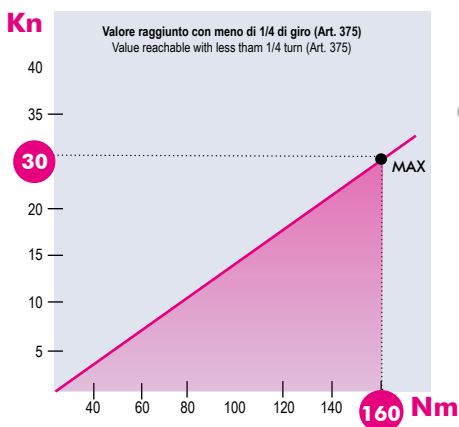
**2**


### Gruppi di serraggio meccanici / Mechanical clamping devices

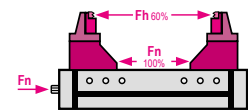
 I diagrammi seguenti consentono di determinare le forze di serraggio ottenibili con le morse di varia grandezza (da 1 a 3), in funzione del momento applicato  
 The following diagrams give the clamping force that can be obtained with each vise type (size 1 to 3) depending on the torque

#### Morse tipo Vises type

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

**3**

**Art. 357**

### FMS

**Art. 868**


Tipo morsa Vise type	1	2	3 - 4	5 - 6
Vite / Screw TPF	18 / 20mm	18 / 24mm	24 / 30mm	30 / 36mm
Passo / Pitch	2mm	2mm	2mm	3mm

**Morse tipo 1 (Max 25 kN - 120 Nm)**  
 Vises type 1 (Max 25 kN - 120 Nm)

**Morse tipo 2 (Max 25 kN - 140 Nm)**  
 Vises type 2 (Max 25 kN - 140 Nm)

**Morse tipo 3 - 4 (Max 30 kN - 200 Nm)**  
 Vises type 3 - 4 (Max 30 kN - 200 Nm)

**Morse tipo 5 - 6 (Max 32 kN - 240 Nm)**  
 Vises type 5 - 6 (Max 32 kN - 240 Nm)

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

## Diagrammi di serraggio / Clamping diagrams

# CompactGrip

### Diagrammi di serraggio meccanico con chiave dinamometrica

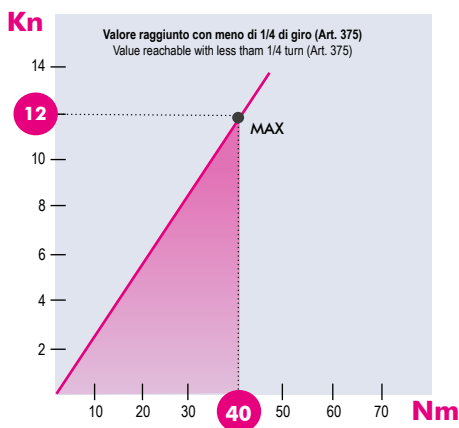
Mechanical clamping diagrams with torque wrench

**Art. 357**

#### Morse tipo Vises type

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

**1**

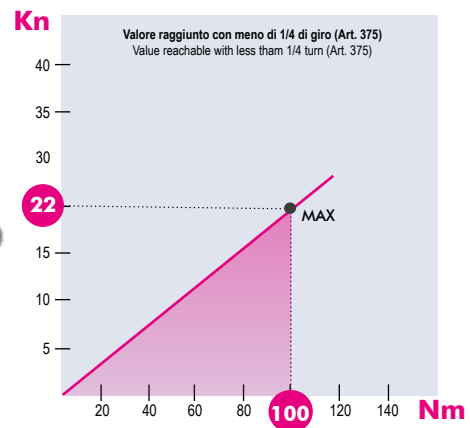


**Art. 357**

#### Morse tipo Vises type

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

**2**



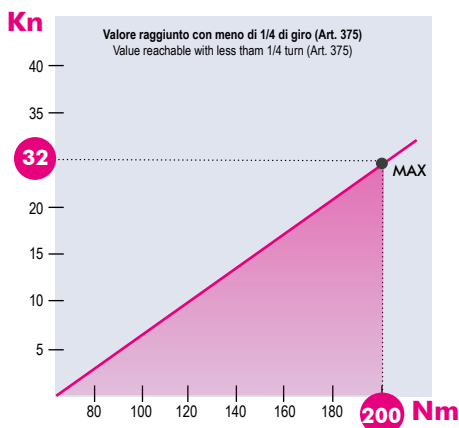
### Gruppi di serraggio meccanici / Mechanical clamping devices

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**



**Art. 357**

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

## GripMatic

### Diagrammi di serraggio meccanico con chiave dinamometrica

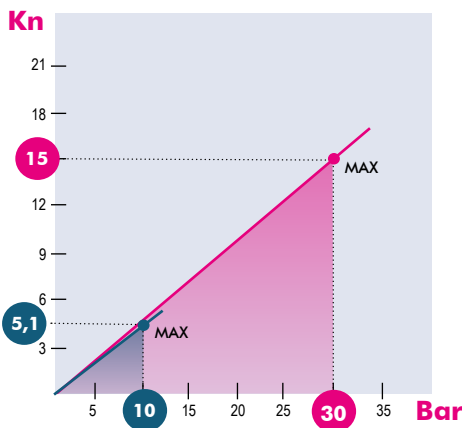
Mechanical clamping diagrams with torque wrench

Art. 357

#### Morse tipo Vises type

2

Pistone Ø85mm -  
Superficie utile 51,8mm<sup>2</sup>  
Hydraulic cylinder Ø85mm  
Effective surface 51,8mm<sup>2</sup>

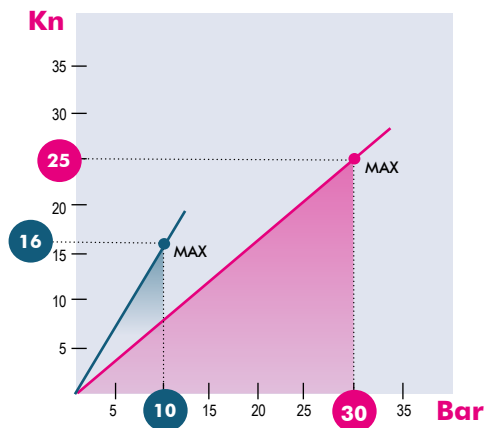


(1 bar = 14,5 psi)

#### Morse tipo Vises type

3

Pistone Ø135mm -  
uperficie utile 132,3mm<sup>2</sup>  
Hydraulic cylinder Ø135mm -  
Effective surface 132,3mm<sup>2</sup>



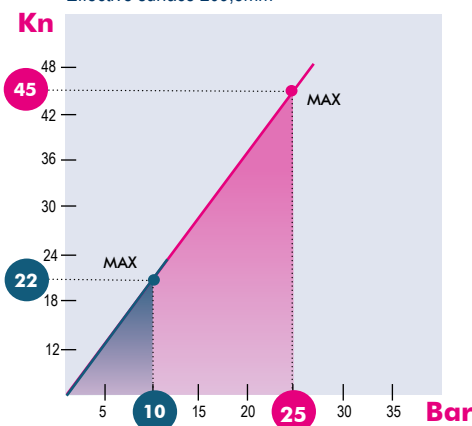
### Gruppi di serraggio idraulici / Hydraulic clamping devices

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

4

Pistone Ø170mm  
Superficie utile 209,5mm<sup>2</sup>  
Hydraulic cylinder Ø170mm  
Effective surface 209,5mm<sup>2</sup>



(1 bar = 14,5 psi)

● Valore massimo  
consigliato (ARIA)

● Max suggested  
value (OIL)

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



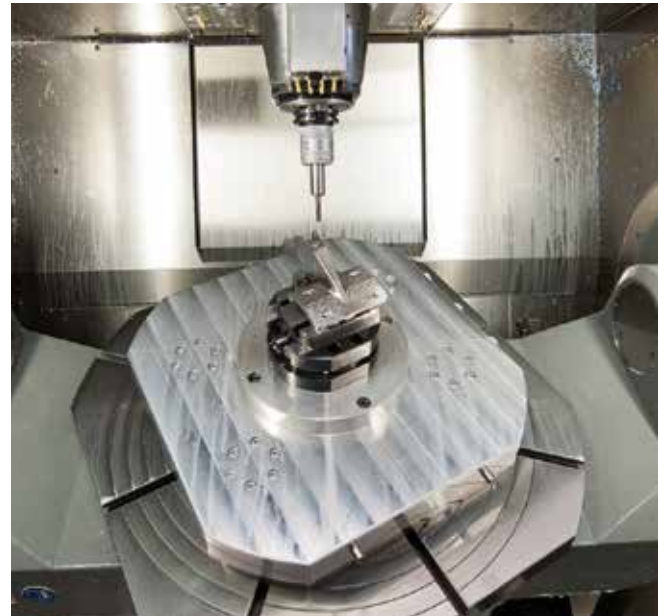
## MORSE MULTITASKING MULTITASKING VISES



[Libretto Istruzioni / Instruction Book](#)

Scansiona il QR code e scarica  
le istruzioni complete

Scan the QR code to download  
the complete instructions



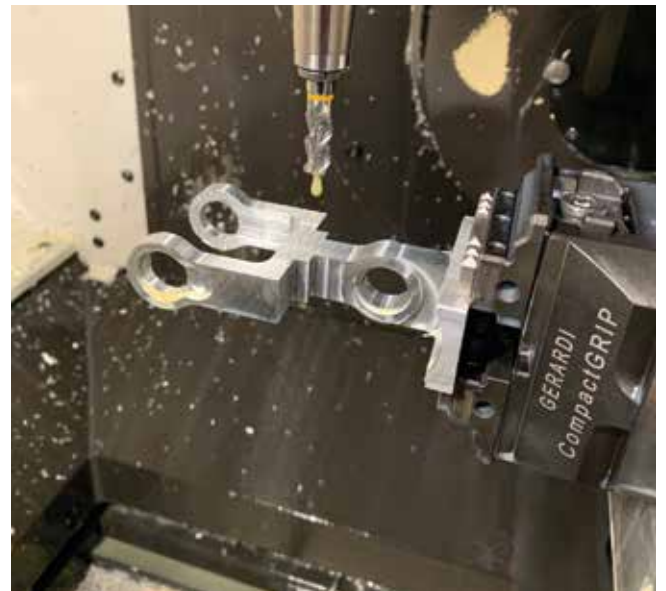
## MORSE COMPACTGRIP COMPACTGRIP VISES



[Libretto Istruzioni / Instruction Book](#)

Scansiona il QR code e scarica  
le istruzioni complete

Scan the QR code to download  
the complete instructions



## MORSE GRIPMATIC GRIPMATIC VISES



[Libretto Istruzioni / Instruction Book](#)

Scansiona il QR code e scarica  
le istruzioni complete

Scan the QR code to download  
the complete instructions

