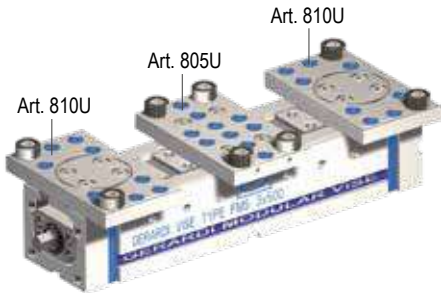


Tipo (grandezza) morsa / Vise type (size)	1	2			3	
kN	25 kN	25 kN			30 kN	

### Art. 867

Morsa FMS doppia, singola, autocentrante con ganasce oscillanti con inserti regolabili

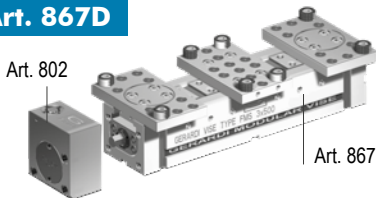


Double, single, self-centering FMS vise with floating jaws with adjustable inserts

A1	91	91	141	191	241	141	191
B	20	20			20		
C	70	90			100		
D	332	300	400	500	600	400	500
E	349	320	420	520	620	425	525
G	75	95			125		
J1	50	50			70		
J2	25	25			35		
Ø	30 (H = 16)	30 (H = 16)			30 (H = 16)		
W	100	120			170		
kg	11	20	27	33	40	40	45

Cod.	5.86.71300	5.86.72300	5.86.72400	5.86.72500	5.86.72600	5.86.73400	5.86.73500
------	------------	------------	------------	------------	------------	------------	------------

### Art. 867D



(Art. 867 + 802) Morsa + moltiplicatore di coppia / Vise + torque multiplier

Cod.	5.86.7D130	5.86.7D230	5.86.7D240	5.86.7D250	5.86.7D260	5.86.7D340	5.86.7D350
------	------------	------------	------------	------------	------------	------------	------------

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

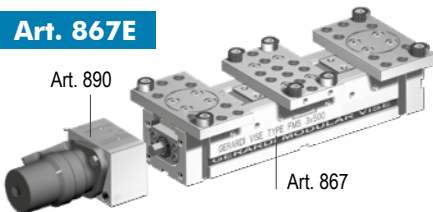
Chiave dinamometrica Art.357 (Consigliata) - Torque wrench Art.357 (Suggested)

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

### Art. 802



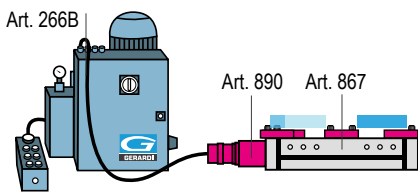
### Art. 867E



(Art. 867 + 890) Morsa + motore idraulico / Vise + hydraulic motor

Cod.	5.86.7E130	5.86.7D230	5.86.7E240	5.86.7E250	5.86.7E260	5.86.7E340	5.86.7E350
------	------------	------------	------------	------------	------------	------------	------------

### Art. 867F

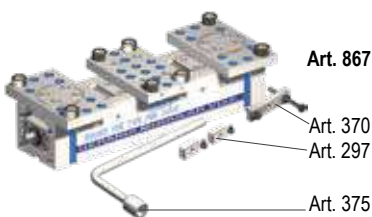


(Art. 867 + 890 + 266B) Morsa + motore idraulico + centralina / Vise + hydraulic motor + power unit

Cod.	5.86.7F130	5.86.7F230	5.86.7F240	5.86.7F250	5.86.7F260	5.86.7F340	5.86.7F350
------	------------	------------	------------	------------	------------	------------	------------

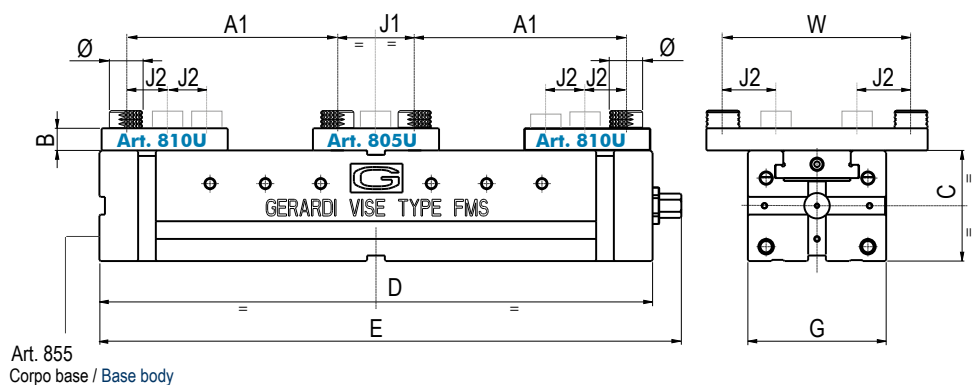
Dotazione standard:

- 2 arresti laterali Art. 370
- 1 coppia di tasselli di posizionamento per cava da 16 mm Art. 297
- 1 chiave a pipa Art. 375



Standard equipment:

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



	3 30 kN			4 30 kN				5 32 kN			6 32 kN		
A1	241	291	341	191	241	291	341	231	281	331	331	381	431
B	20			30				35			35		
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
G	125			145				170			190		
J1	70			80				100			100		
J2	35			40				40			40		
Ø	30 (H = 16)			30 (H = 16)				40 (H = 30)			40 (H = 30)		
W	170			220				250			300		
kg	50	55	60	68	76	85	93	124	134	144	200	220	240

Cod. 5.86.73600 5.86.73700 5.86.73800 5.86.74500 5.86.74600 5.86.74700 5.86.74800 5.86.75600 5.86.75700 5.86.75800 5.86.76800 5.86.76900 5.86.76100

### Art. 867D (Art. 867 + 802) Morsa + moltiplicatore di coppia / Vise + torque multiplier

Cod. 5.86.7D360 5.86.7D370 5.86.7D380 5.86.7D450 5.86.7D460 5.86.7D470 5.86.7D480 5.86.7D560 5.86.7D570 5.86.7D580 5.86.7D680 5.86.7D690 5.86.7D610

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

Cod. 5.80.23000 5.80.24000 5.80.25000 5.80.26000

### Art. 867E (Art. 867 + 890) Morsa + motore idraulico / Vise + hydraulic motor

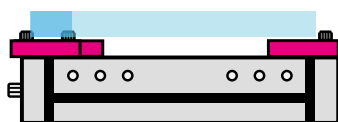
Cod. 5.86.7E360 5.86.7E370 5.86.7E380 5.86.7E450 5.86.7E460 5.86.7E470 5.86.7E480 5.86.7E560 5.86.7E570 5.86.7E580 5.86.7E680 5.86.7E690 5.86.7E610

### Art. 867F (Art. 867 + 890 + 266B) Morsa + motore idraulico + centralina / Vise + hydraulic motor + power unit

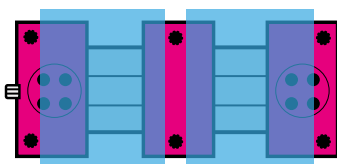
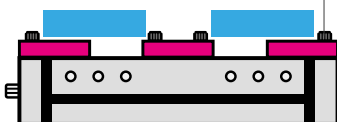
Cod. 5.86.7F360 5.86.7F370 5.86.7F380 5.86.7F450 5.86.7F460 5.86.7F470 5.86.7F480 5.86.7F560 5.86.7F570 5.86.7F580 5.86.7F680 5.86.7F690 5.86.7F610

## Art. 867 Esempi applicativi ganasce oscillanti regolabili: Floating adjustable jaws application examples:

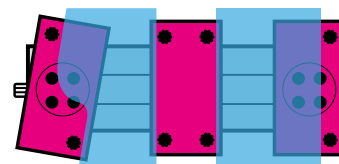
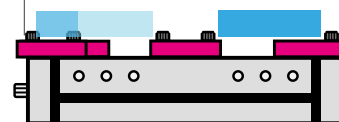
Inserti regolabili - adjustable jaw inserts



4 inserti - 4 jaw inserts



6 inserti - 6 jaw inserts



8 inserti - 8 jaw inserts

# Morse e cubi morsa / Vises & vise-towers

## FMS SERIES


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

 Durezza / Hardened  
**HRC 58±2**
**Un sistema modulare flessibile con centinaia di ganasce disponibili**

A Flexible modular system with hundreds of jaws available

### ESTREMA VERSATILITÀ EXTREME VERSATILITY

- 3 posizioni per la ganasca fissa; •Serraggio dall'esterno all'interno e viceversa;
- Posizionamento verticale-orizzontale-laterale; •Collegamento: fianco a fianco, dorso a dorso, fianco a dorso; •Possibilità illimitata per ganasce speciali; •Sostituzione semplice e precisa delle ganasce; •Elemento di prolunga per pezzi fuori misura; •Sistema di serraggio meccanico, idraulico, pneumatico elettrico o con moltiplicatore di potenza, tramite comando manuale, a pedale o mediante pulsante elettrico (vedi pag. 12); •Costruzione solida e compatta e massima apertura rispetto alla sua lunghezza; •Flessioni praticamente ridotte di due volte rispetto alle precedenti morse modulari standard; •Accurata ripetibilità di posizionamento del pezzo da lavorare; •Precisioni geometriche con tolleranze entro 0,02 mm; •Protezione integrale dalla penetrazione di corpi estranei tramite piastre scorrevoli; •Possibilità di trasformazione di ogni morsa singola in morsa autocentrante o in morsa doppia tramite la semplice sostituzione delle ganasce sul corpo base universale. (ESEMPLI APPLICATIVI A PAGINA 5.76).

- 3 positions for the fixed jaw; •Outside to inside clamping and viceversa; •Vertically, horizontally and sideways vise positioning; •Side to side, back to back and back to side vise positioning; •Unlimited special jaws; •Simple and precise exchange of jaws; •Extension element for extra-long pieces; •Mechanic, hydraulic or pneumatic or electrical clamping system or with pressure multiplier, through manual, pedal or push button control (see page 12); •Space saving design, solid construction and maximum blocking ratio to total length; •Deflection reduced two times with respect to the STANDARD modular vises; •Very accurate repeatability of workpiece position; •Geometrical accuracy with tolerances within 0,02 mm; •Integral protection from chips and dirty through sliding protection; •Possibility to transform each single vise in a self-centering vise with possibility to block from outside to inside and vice versa and in a double vise through the simple substitution of the jaws on the universal vise body base. (APPLICATION EXAMPLES ON PAGE 5.76)

### Vite a doppio filetto Double thread spindle



Vite principale (completamente protetta) con filetto destro e sinistro e slitte guidate lunghe quanto il corpo base con più chiavette per ganasce mobili

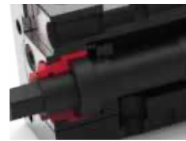
Completely protected main spindle with left and right thread and guided slides long as the vise base with multiple movable jaw positions

### Chiavette di posizionamento Positioning Keyways



Chiavette longitudinali e trasversali sia sulla base per il posizionamento orizzontale, sia in testa per il posizionamento verticale.

Longitudinal and cross keyways both on the base bottom surface for horizontal positioning and on the side for vertical positioning



### 3 Morse in Una 3 Vises in One



Possibilità di trasformare ogni morsa singola in una morsa autocentrante con bloccaggio concentrico dall'esterno all'interno e viceversa e in morsa doppia tramite la semplice sostituzione delle ganasce sul corpo base universale.

Possibility to transform each single vise in a self-centering vise with the possibility to block from outside to inside and viceversa and in a double vise through the simple substitution of the jaw on the universal vise body base.

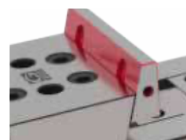


### Altissima rigidità Highest rigidity



Base della morsa con una sezione doppia per garantire maggiore rigidità. Flessioni ridotte di due volte rispetto alle normali morse modulari standard. Disponibili cubi monoblocco.

Higher vise base in order to guarantee a better rigidity. Bending reduced two times with respect to the standard modular vises. Available solid vise towers



### Riconfigurazione Rapidissima Quickest Vise Resetting

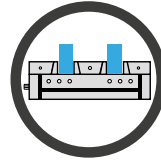


Grazie alla piastra ganasca intercambiabile manualmente tramite sistema a pettine

Thanks to the quick interchangeable jaw plate through ground comb system

Nata espressamente per i centri di lavoro, la gamma FMS permette ottimizzazioni di serraggio con riferimenti precisi in spazi contenuti, usure inesistenti e rigidità impensabile (spessore della base raddoppiato), possibilità di bloccare più pezzi contemporaneamente con l'ausilio di sistemi meccanici, pneumatici, elettrici o idraulici. Tutte sono disponibili/predisposte sia per piazzamenti verticali che orizzontali. Serraggi di qualsiasi lunghezza. La caratteristica (Brevetata) che meglio contraddistingue questa serie di morse consiste nella possibilità di trasformare ogni morsa singola (cioè adibita al serraggio di un singolo pezzo) in una morsa autocentrante con bloccaggio concentrico dall'esterno all'interno e viceversa e in morsa doppia tramite la semplice sostituzione delle ganasce sul corpo base universale. Tutto ciò ne suggerisce l'impiego in situazioni produttive caratterizzate da lotti di pezzi estremamente diversi fra loro riducendo tempi di set-up e garantendo un'accurata ripetibilità di posizionamento e quindi di precisione migliorando l'efficienza globale del sistema produttivo.

Born to be dedicated to machining centres, FMS series of vises allow workholdings with perfect alignment in a space saving design, extremely high wear resistance, with deflection reduced 2 times in respect to the STD modular vises (base thickness doubled), possibility to clamp more pieces simultaneously with mechanic, hydraulic pneumatic or electric devices. You can use them both for vertical and horizontal clamping without any price charge. Grip any work length. The feature (Patented) which identifies this line of vises consists in the possibility to transform each single vise (1 piece clamping) in a self-centering vise with possibility to block from outside to inside and viceversa and in a double vise through the simple substitution of the jaws on the universal vise body base. All that suggests their use in the production of lots of highly different pieces reducing set-up times and assuring very accurate repetability of workpiece position and precision, increasing the global efficiency of the production process.



SCAN IT TO SEE

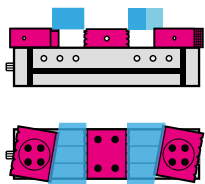


THE WEB PAGE

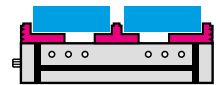
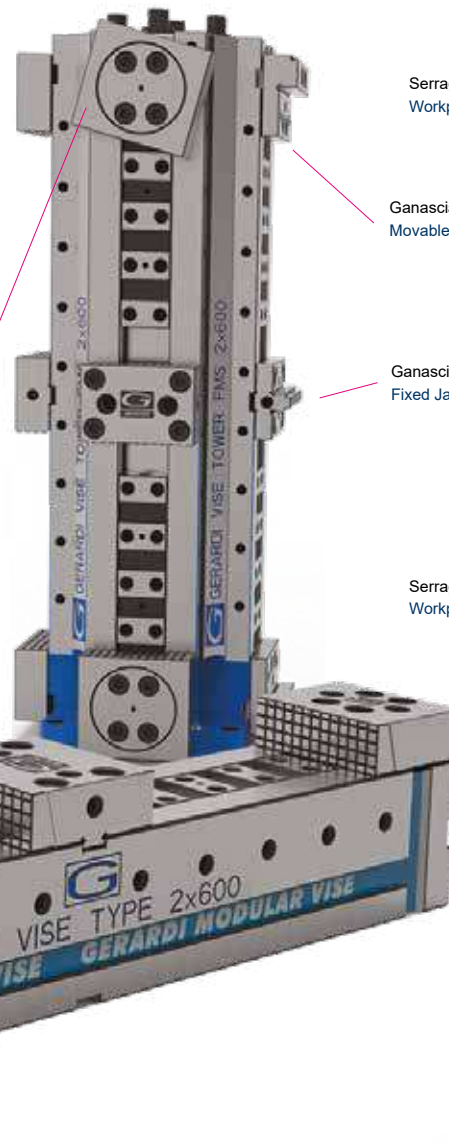


## *Singole, Doppie o Autocentranti!*

## *Single, Double or Self-centering!*



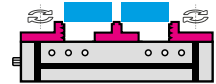
Ganasce Mobili Oscillanti  
per serraggio di pezzi irregolari  
Floating Movable Jaws  
for irregular workpieces



Serraggio particolare su gradino grande  
Workpiece clamping on the large step

Ganascia Mobile Art.810P  
Movable Jaw Art.810P

Ganascia Fissa Art.805Q  
Fixed Jaw Art.805Q

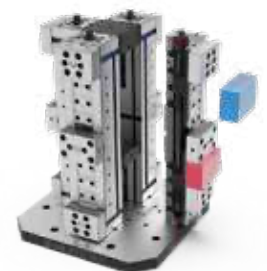


Serraggio particolare su gradino piccolo  
Workpiece clamping on the small step

### Sistema a terza mano - Third hand service

Consente il carico e serraggio lieve del primo particolare da lavorare mentre viene caricato il secondo di dimensione maggiore. Molto utile con l'utilizzo verticale della morsa.

It allows the first workpiece loaded to be clamped lightly while the second workpiece is being loaded. Such device is useful especially with the vise vertically positioned



# Staffe di ancoraggio / Vise holding clamps

**NEW**  
**2024**

## FMS

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" nuts

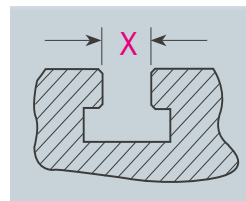
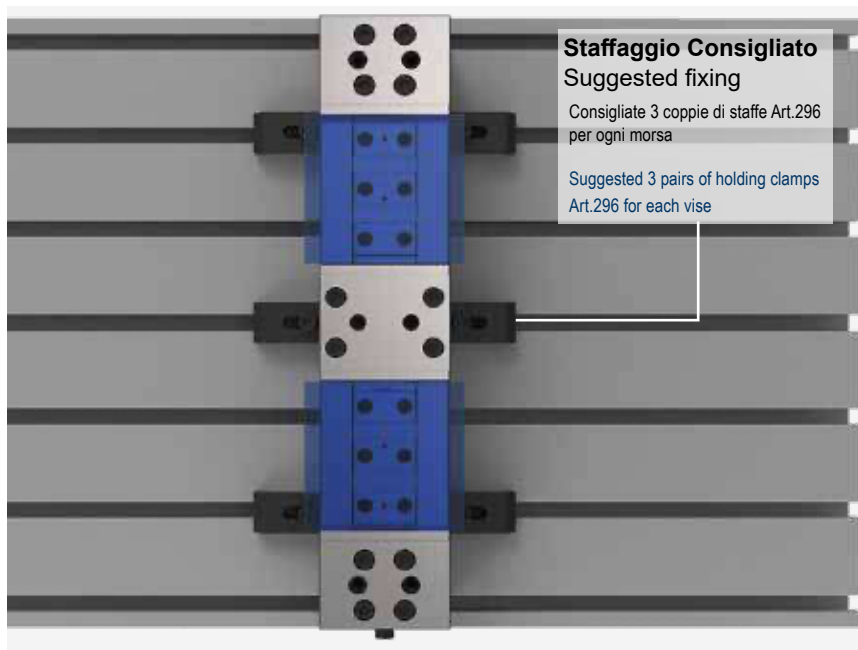


Esempio d'ordine per morsa tipo 3 su macchina con cave a T da 18mm: **Art.296 T.3 X=18mm**

Oppure con codice: **2.29.6300 X=18mm**

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

Also with code: **2.29.6300 X=18mm**

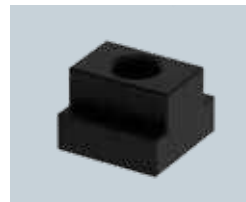


### Cava a T

#### T Slot

Specificare sempre la cava della vostra macchina

Always specify the machine T-slot dimension

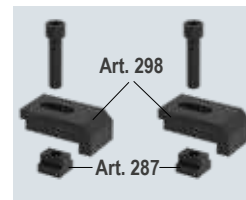


### Art.287 (Pag.4.34)

#### 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 3 coppie di staffe Art.296 per ogni morsa

Suggested 3 pairs of holding clamps Art.296 for each vise

Tipo (grandezza) Type (size)	1				1				2 - 3				4 - 5 - 6																				
<b>Art. 296</b>	Cava a T slot X	12	14	16	18	12*	14	16	18	18*	20	22	16	18	20	22	18*	20	22	16	18	20	22										
	T-nuts Ref. N°	8	9	10	11	12	13	14	20	21	22	32	39	40	20	21	22	23	32	39	40	20	21	22	23	32	39	40					
<b>Coppia di staffe</b> Holding clamps pair	Filetto vite Screw thread	<b>M8</b>				<b>M10</b>				<b>M12 *</b>				<b>M16</b>				<b>M12 *</b>				<b>M16</b>				<b>M12</b>				<b>M16 *</b>			
<b>1 X M8</b> 	A	50	50	50	50	50	50	50	50	76	76	76	76	76	86	86	86	86	86	86	86	86	86	86	86	86	86						
	B	24	24	24	24	24	24	24	24	30	30	30	30	30	40	40	40	40	40	40	40	40	40	40	40	40	40	40					
	C	6	6	6	6	6	6	6	6	6	6	6	6	6	10	10	10	10	10	10	10	10	10	10	10	10	10	10					
	ØD	8,5	11	13	17	13	17	17	17	13	17	17	17	17	13	17	17	17	13	17	17	17	13	17	17	17	13	17					
	E	10	10	10	10	10	10	10	10	13	13	13	13	13	15	15	15	15	15	15	15	15	15	15	15	15	15	15					
	ØF	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	G / G1	14	16/15	17,5/13	19/9	17/22	16/15	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27	26/27					
	H	34	34	34	34	42	42	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50					
	I	8	10	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	J	4	4	4	4	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10					
T ± 0,1	15	15	15	15	20	20	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26						
Cod.	2.29.61000 / M8	2.29.61000 / M10	2.29.61000 / M12	2.29.61000 / M16	2.29.63000 / M12	2.29.63000 / M12	2.29.65000 / M12	2.29.65000 / M16																									

\*Scelta consigliata - Suggested choice

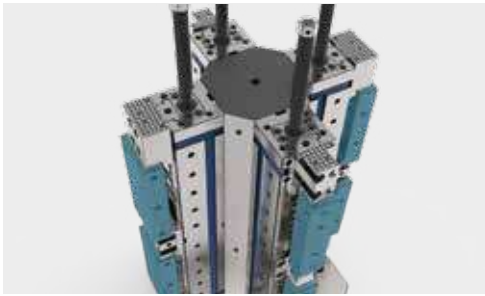
\*Scelta NON consigliata - NO Suggested choice

## Soluzioni personalizzate / Customized solutions

# FMS

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

Customized solutions for all your clamping problems



#### Morse FMS automatizzate in verticale

FMS vises automated vertically mounted

**Gestione automatica di morse meccaniche grazie alla predisposizione per connessione con il robot. Lavorazioni del particolare su 3 lati con un unico serraggio evitando il riposizionamento ed una seconda ripresa del particolare da lavorare.**

Automated machine setting thanks to the pre-fitting with robot connection. Workpiece machining on 3 sides with one clamping and so avoiding re-positioning and a second machining of the workpiece.

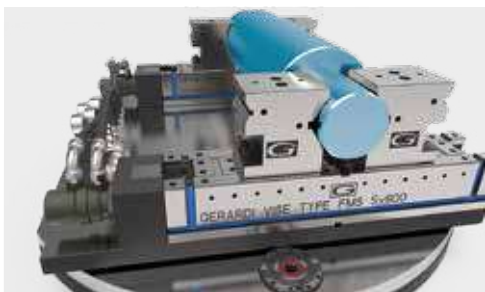


#### Morsa FMS con riduttore epicicloidale

FMS vise with epicyclic force reducer

**Riduttore epicicloidale il quale consente di moltiplicare notevolmente la coppia sviluppata dal motore idraulico consentendo di arrivare a elevate forze di serraggio , fino a 480 kN**

Epicyclic force reducer able to multiply greatly the torque generated by the hydraulic engine reaching a very high clamping force, maximum 480kN.



#### Serraggio automatico di grandi particolari tondi

Round workpieces automatic clamping

**Sistema di serraggio meccanico con morse FMS per il serraggio di particolari tondi di grandi dimensioni controllato tramite centralina idraulica da CNC**

Quick positioning and clamping with FMS vises of whole equipment on round Zero Point plate through pull-studs and centering pin.



#### Non solo per centri a 5 assi

Not only for 5th axis machines

**Morsa autocentrante FMS su centro di lavoro verticale con ganasce personalizzate in alluminio.**

Self Centering FMS vise with taylor made jaws aluminum mounted on Vertical CNC



#### Morse FMS in verticale con robot

FMS vises vertically mounted + robot

**Assieme di morse FMS montate verticalmente su centro orizzontale gestite tramite robot anche per carico e scarico pezzi**

FMS vises vertically mounted on horizontal machining center.

Both vise clamping and workpieces turnover are operated through automated robotic system.

# TRE MORSE IN UNA THREE VISES IN ONE



Acquista il modulo base universale. Una soluzione aperta per il lavoro di oggi pensando a quello di domani !  
Buy the base body. A Versatile solution for present and future machining !

## CORPO BASE Art.855

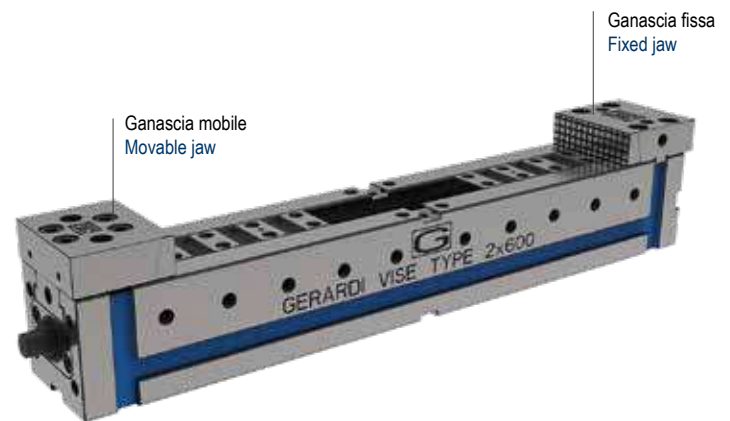
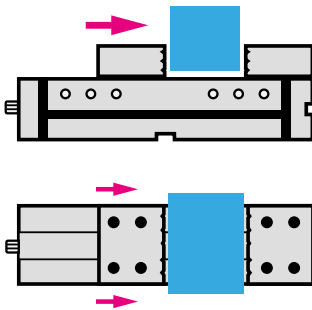
### BASE BODY Art.855

Modulo base universale  
**CENTINAIA DI GANASCE DISPONIBILI !!**

Universal vise body module  
**HUNDREDS OF JAWS AVAILABLE !!**

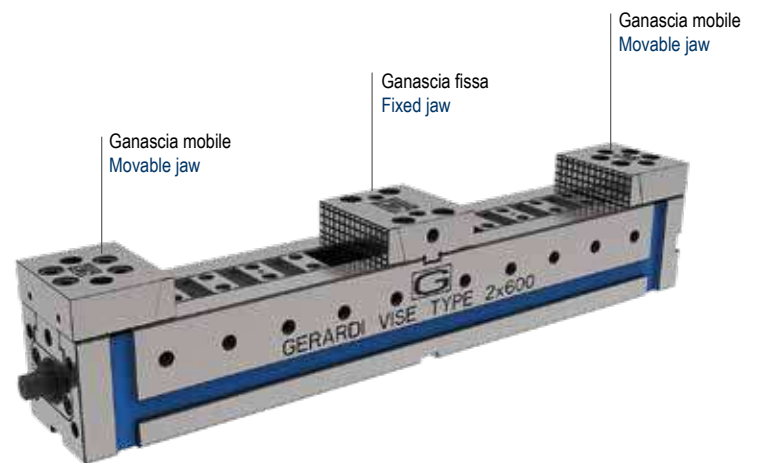
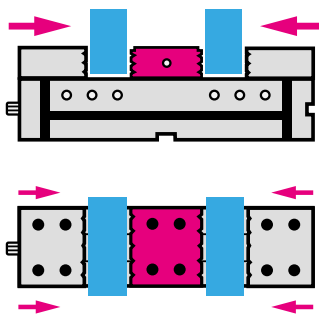
## SERRAGGI SINGOLI

### SINGLE CLAMPING



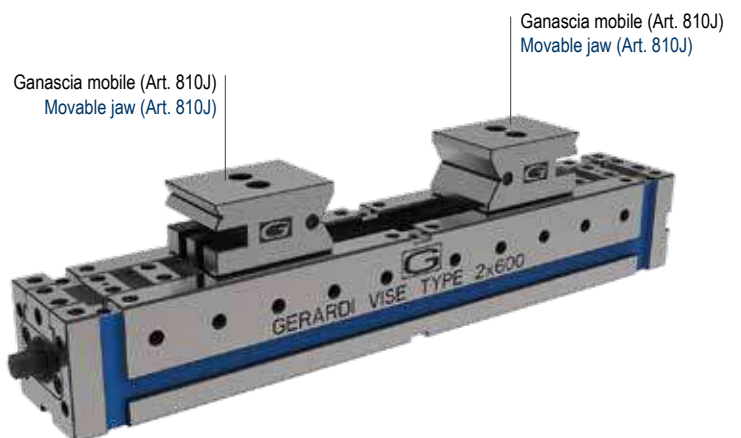
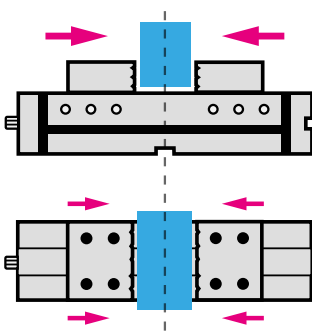
## SERRAGGI DOPPI

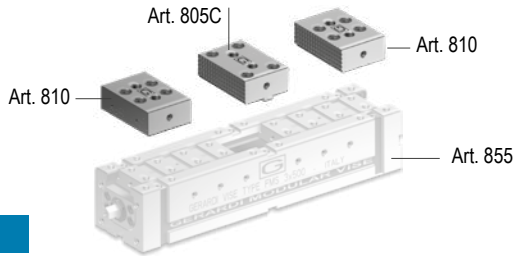
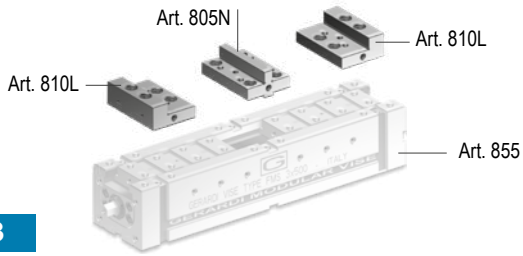
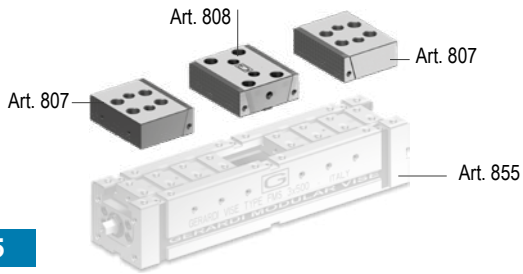
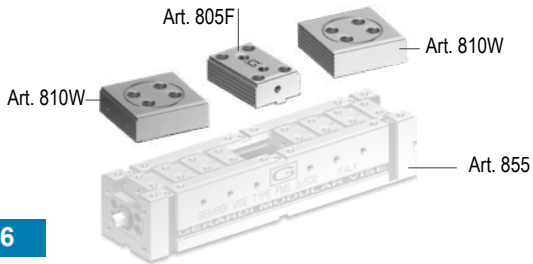
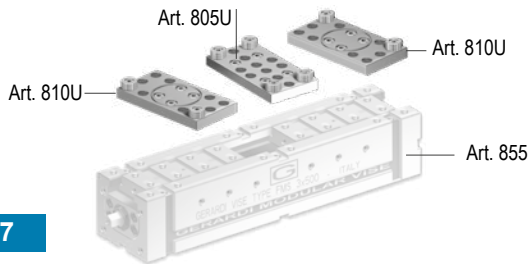
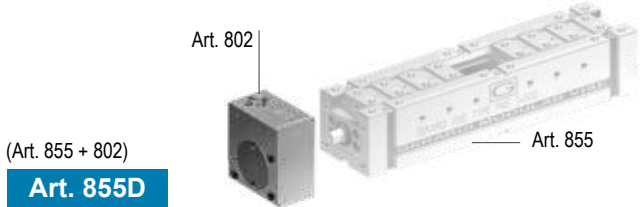
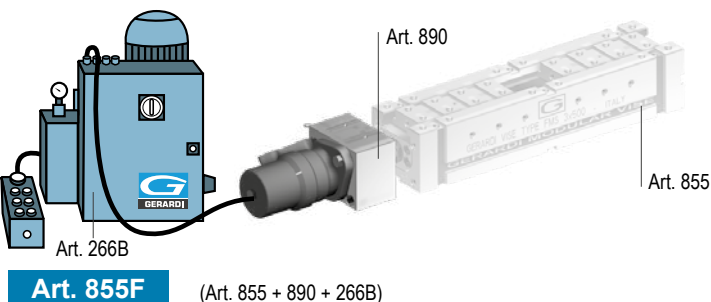
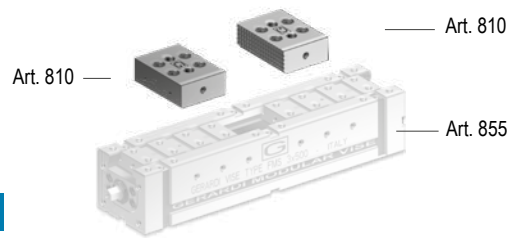
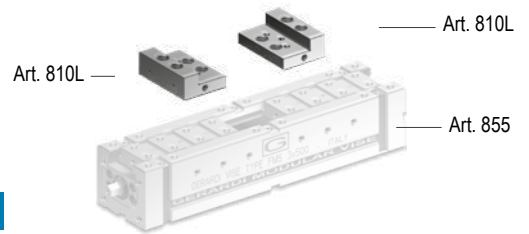
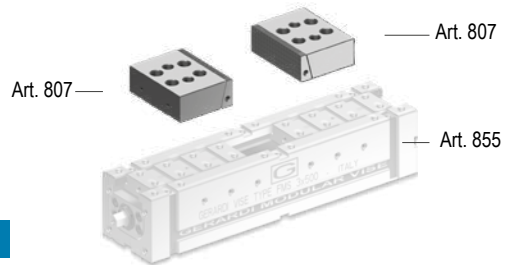
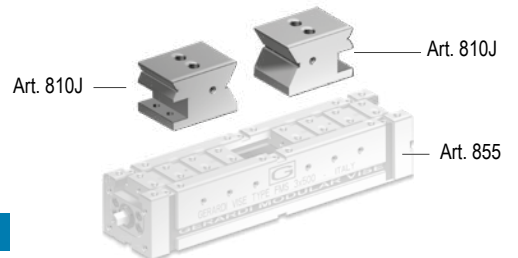
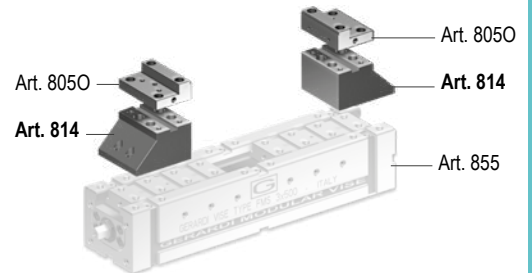
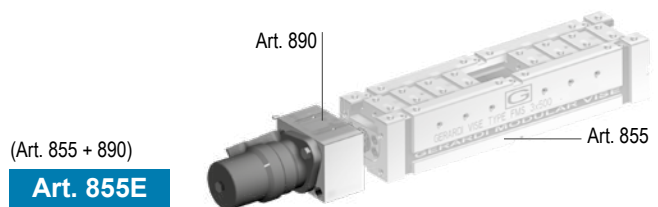
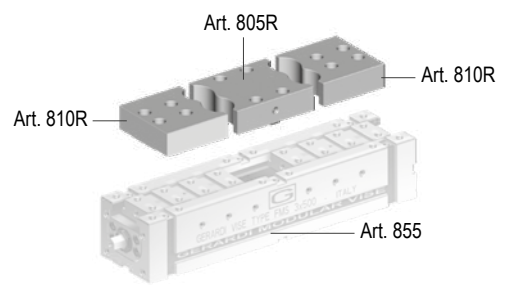
### DOUBLE CLAMPING



## AUTOCENTRANTE

### SELF-CENTERING

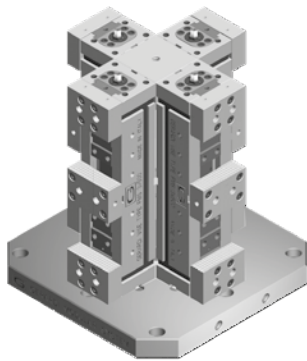


**VERSIONI PER SERRAGGI DOPPI**  
**DOUBLE CLAMPING CONFIGURATION**

**Art. 860**

**Art. 863**

**Art. 865**

**Art. 866**

**Art. 867**

**Art. 855D**

**Art. 855F**
**VERSIONI AUTOCENTRANTI**  
**SELF-CENTERING TYPE**

**Art. 860**

**Art. 863**

**Art. 865**

**Art. 870**

**Art. 868**

**Art. 855E**




# CUBI DI MORSE MONTATI A CROCE O DORSO A DORSO

## WISE TOWERS CROSS OR BACK TO BACK MOUNTED

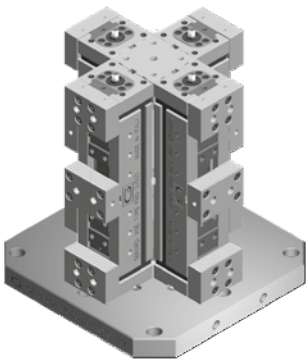


### N° 4 MORSE FMS

montate a croce su piastra base (Art. 827A)  
 con distanziali (Art. 835)

### N° 4 FMS VISES

cross-mounted on base plate (Art. 827A)  
 with spacers (Art. 835)

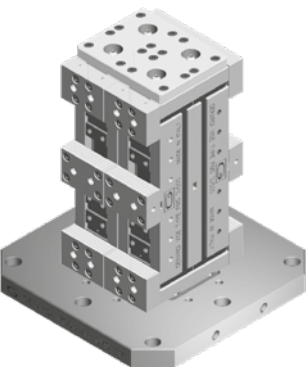


### N° 4 MORSE FMS

montate a croce su piastra base (Art. 827A)  
 con supporto centrale (Art.836)

### N° 4 FMS VISES

cross-mounted on base plate (Art.827A)  
 with center support (Art.836)

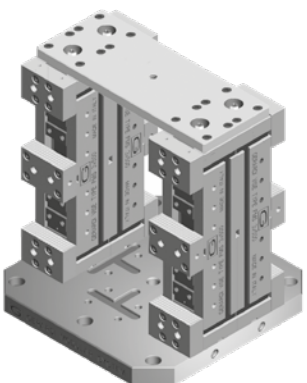


### N° 4 MORSE FMS

montate dorso a dorso, fianco a fianco, su piastra base  
 (Art. 827) con piastra di collegamento (Art. 832)

### N° 4 FMS VISES

cross-mounted back-to-back, side by side, on base  
 plate (Art. 827) with connecting plate (Art. 832)

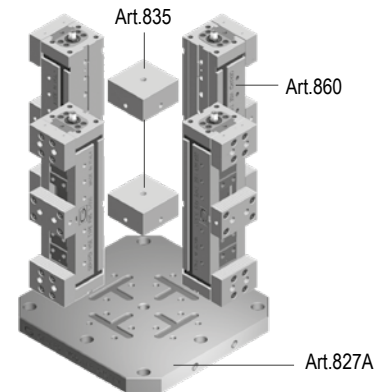


### N° 4 MORSE FMS

montate dorso a dorso, su piastra base  
 (Art. 827A) con piastra di collegamento (Art. 832)

### N° 4 FMS VISES

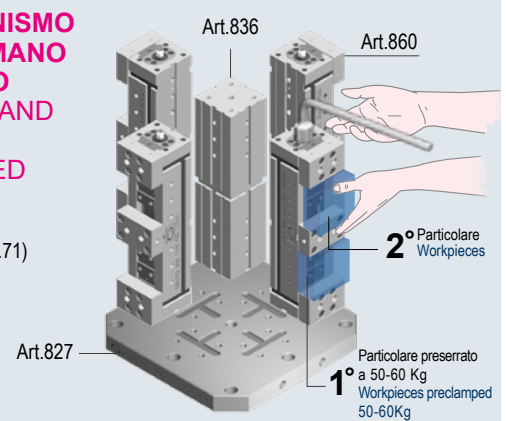
cross-mounted back-to-back, on base plate  
 (Art. 827A) with connecting plate (Art. 832)



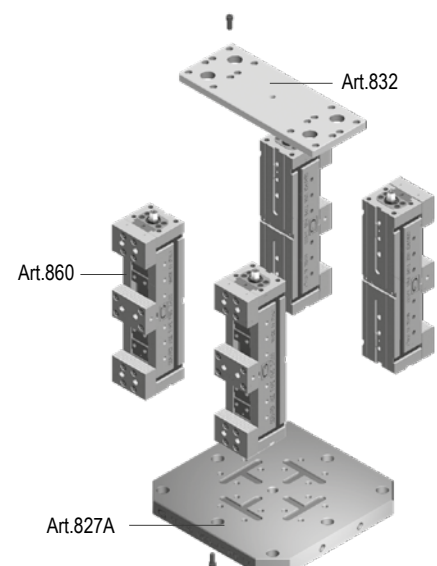
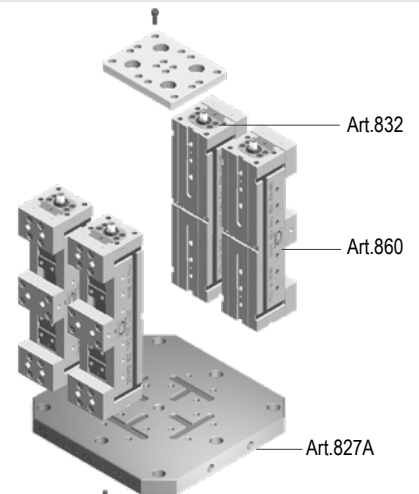
**MECCANISMO  
 TERZA MANO  
 INCLUSO  
 THIRD HAND  
 DEVICE  
 INCLUDED**

### Art.850P

(Pag - Page 5.71)



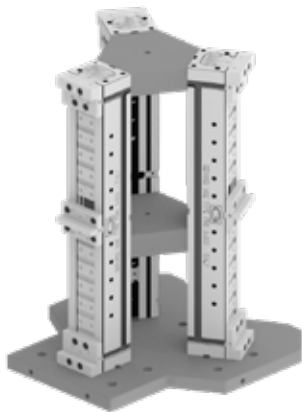
1° Particolare preserrato a 50-60 Kg  
 Workpieces preclamped 50-60Kg



Montaggio ed allineamento morsa con distanziali, supporto centrale o piastra di collegamento (Vedi pag.5.3)  
 Vise and alignment mounted with spacers, center support or connecting plate (See page 5.3)

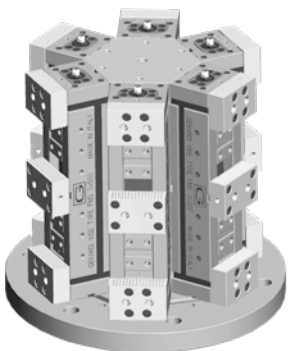
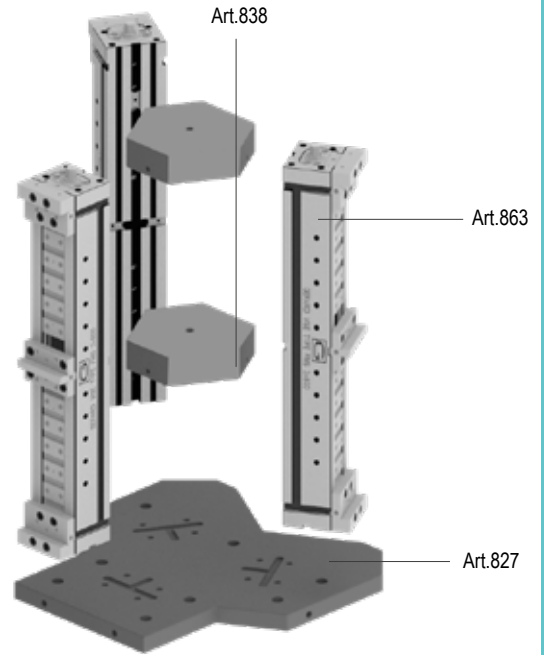
# CUBI DI MORSE MONTATI VERTICALMENTE

## VISE TOWERS VERTICALLY ASSEMBLED



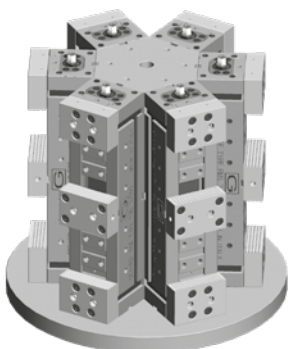
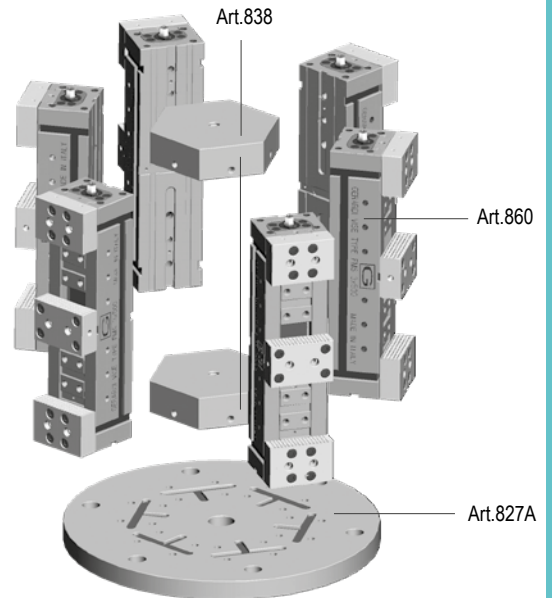
**N° 3 morse FMS**  
 montate verticalmente su piastra base a Y (827)  
 con supporto centrale (Art. 838)

**N° 3 FMS vises**  
 vises vertically mounted on Y base plate (827A)  
 with exagon center support (Art. 838)



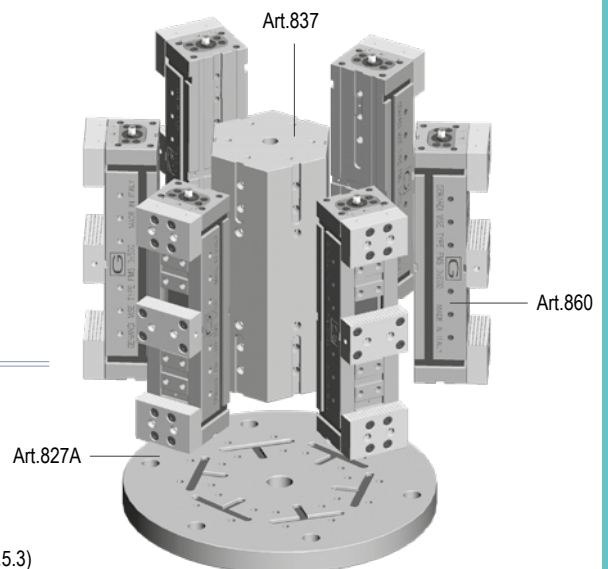
**N° 6 morse FMS**  
 montate verticalmente su piastra base (Art. 827A)  
 con distanziali esagonali (Art. 838)

**N° 6 FMS vises**  
 vises vertically mounted on base plate (Art. 827A)  
 with exagon spacer (Art. 838)



**N° 6 morse FMS** montate verticalmente  
 su piastra base (Art. 827A)  
 con supporto centrale (Art. 837)

**N° 6 FMS vises** vertically mounted  
 on base plate (Art. 827A) with exagon  
 center support (Art. 837)



Montaggio ed allineamento morse con distanziali, supporto centrale o piastra di collegamento (Vedi pag.5.3)  
 Vise and alignment mounted with spacers, center support or connecting plate (See page 5.3)

# VALIGETTA DI CAMPIONATURA FMS (Art.860)

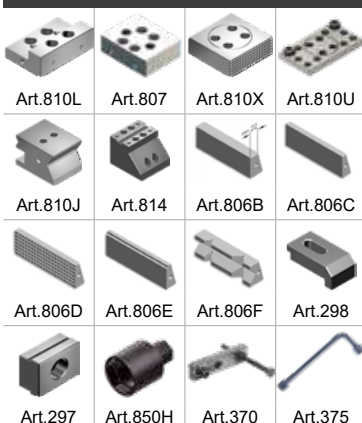
## FMS SAMPLE KIT CASE (Art.860)

**Art. 983**

Art.860 T.1x300


**Morsa / Vise Art. 860**

Cod. 0.98.30000

**Art. 860 - All'Interno - Inside:**


## SIMBOLOGIA DATI TECNICI

## TECHNICAL DATA ICONS

<b>GANASCE</b> <b>JAWS</b>						<b>POSSIBILITÀ</b> <b>POSSIBILITY</b>						
	Piane Straights	A gradino With step	Oscillanti Floating	Oscillanti con inserti regolabili Floating with inserts adjustable	Prismatiche Prismatic		Serraggio singolo Single clamping	Serraggio doppio Double clamping	Predisposizione Zero Point Zero Point Ready	Cubi-morsa Vise tower	Divisore Automatico Automatic dividing head	Divisore Meccanico Mechanical dividing head
<b>PIASTRE</b> <b>GANASCE</b> <b>JAW PLATES</b>						<b>PAGINE</b> <b>PAGES</b>						
	Discendente Pull down	Piana Straight	Cambio rapido manuale Quick manual change	GRIP GRIP	Inserti GRIP Inserti GRIP		Lavorazioni a 5 assi 5 axis machining	Accessori & Ricambi Accessories & Spare Parts	Istruzioni corretto utilizzo Instruction for a proper use	Diagrammi forze di serraggio Clamping force diagrams	Sistema Idraulico Hydraulic System	

## OPZIONI LAVORAZIONI EXTRA

## OPTIONS FOR EXTRA MACHINING

Nei codici, **FMS** si riferisce agli articoli dei gruppi 5, 6 e 7.  
 In codes, **FMS** refers to articles in groups 5, 6 and 7.

Lavorazione extra Extra machining	Cod.	Lavorazione extra Extra machining	Cod.
AGGIUNTA di un foro calibrato ADDITION of a calibrated hole	MAN-010-FMS	MONTAGGIO SEMPLICE SIMPLE ASSEMBLY	MAN-060-FMS
AGGIUNTA di una chiave calibrata ADDITION of a calibrated key-way	MAN-020-FMS	MONTAGGIO ed ALLINEAMENTO (Standard) (Standard) ASSEMBLY and ALIGNMENT	MAN-070-FMS
PREDISPOSIZIONE SEMPLICE SIMPLE SET UP	MAN-030-FMS	MONTAGGIO VERTICALE COMPLETE VERTICAL ASSEMBLY	MAN-080-FMS
PREDISPOSIZIONE & MONTAGGIO COMPLETO COMPLETE SET UP & MOUNTING	MAN-040-FMS	ALLINEAMENTO e CONTROLLO tramite DEA ALIGNMENT and CONTROL by DEA \ CMM	MAN-090-FMS
MONTAGGIO PARZIALE PARTIAL ASSEMBLY	MAN-050-FMS	TABULATO controllo DEA PRINTOUT DEA control	MAN-100-FMS

Vedi pagina 5.70 per esempi applicativi - See page 5.70 for application examples