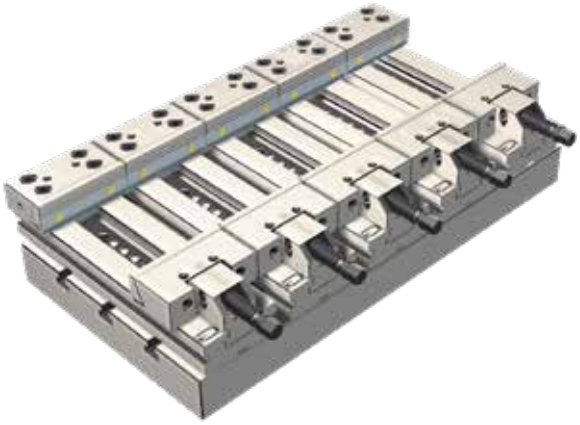
GERARDI

WORKHOLDING AND TOOLING

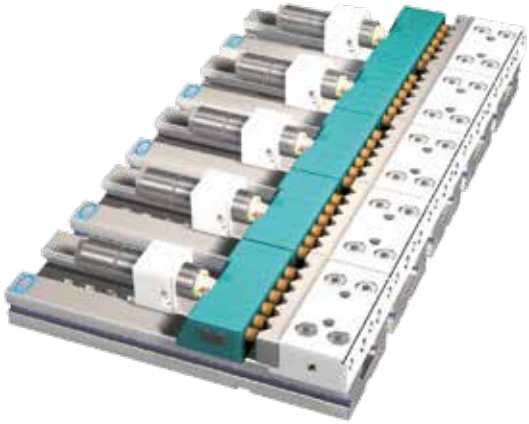
BOOK RENDERING GERARDI

Oct. 2018

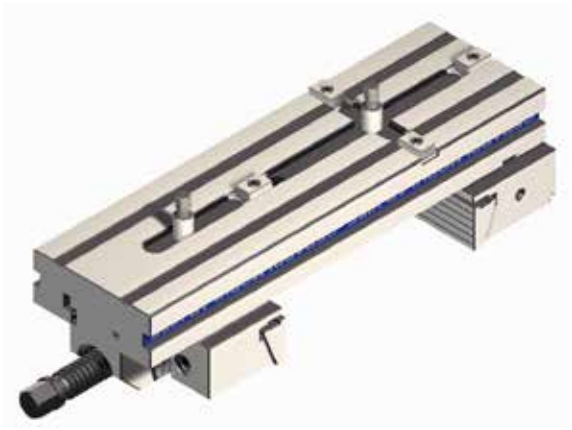


Morse Modulari di Precisione accoppiabili
ed allineabili per serraggi multipli
Precision Modular vises matchable for gang operations

Morse Modulari di Precisione accoppiabili ed allineabili per serraggi multipli idraulici
Precision Modular vises matchable for gang operations and hydraulic clamping



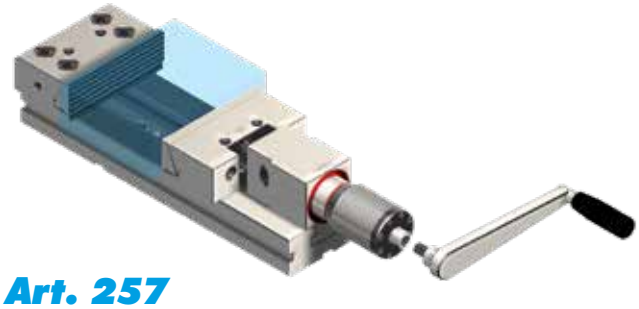
Morse Modulari di Precisione accoppiabili ed allineabili per
serraggi multipli idraulici con ganasce speciali
Precision Modular vises matchable for gang operations
and hydraulic clamping with special jaws



Alternative di posizionamento: 2 chiavi trasversali - 2 chiavi longitudinali -
2 spine cilindriche rettificate di posizionamento
Positioning Alternatives: 2 cross key ways - 2 longitudinal key ways
- 2 ground holes

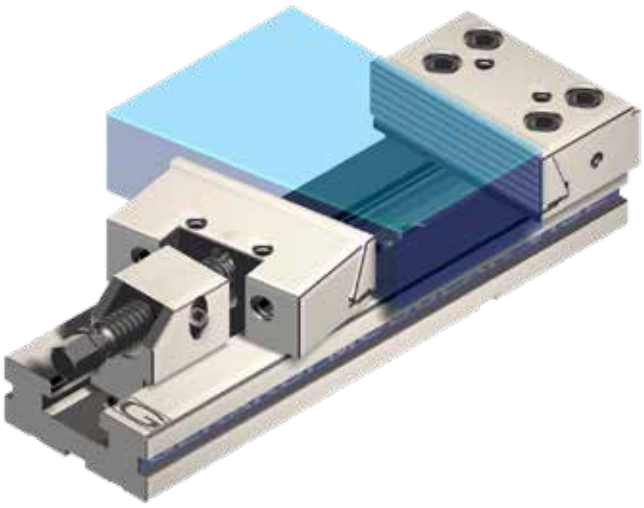
Miglior controllo per verifica allineamento morsa (ganascia fissa - chiavetta trasversale)
Best check for vise alignement accuracy (fixed jaw - cross key)

Vista esploso
Explosion view

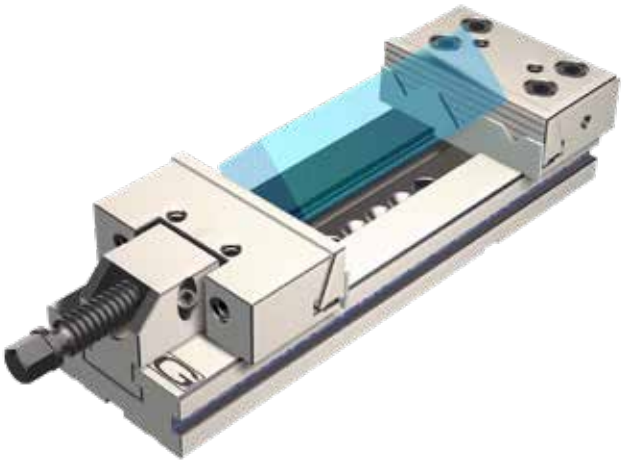


Art. 257

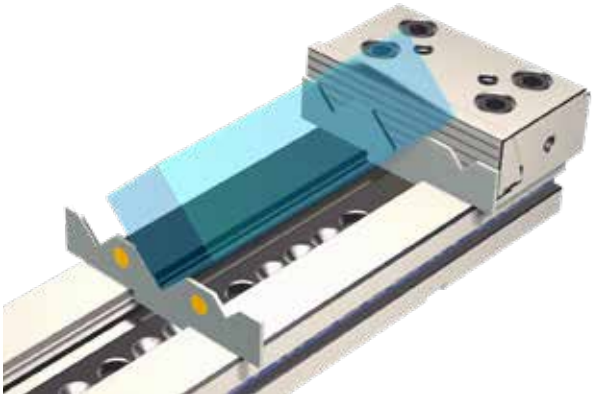
Gruppo di serraggio vite idraulica per sforzi minimi (non per maggior potenza)
Hand hydraulic clamping group for minimum efforts (not for bigger power)



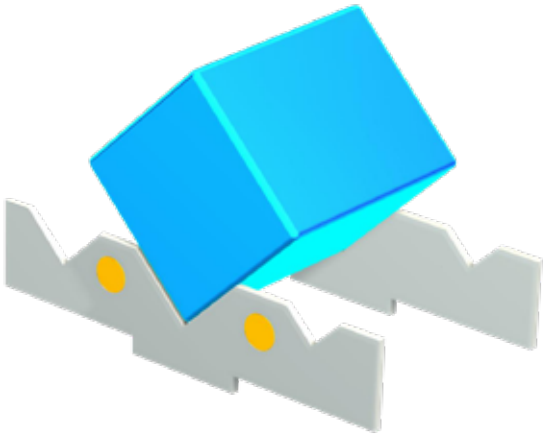
Ganascia mobile oscillante
Floating movable jaw



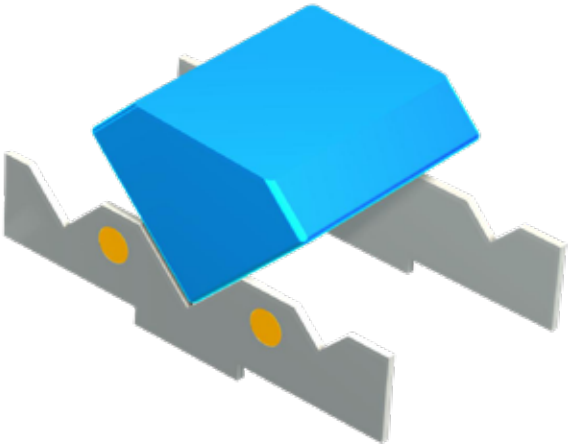
Morsa **STD** con piastre parallele magnetiche angolari **Art. 314**
STD vise with angle magnetic parallels plates **Art. 314**



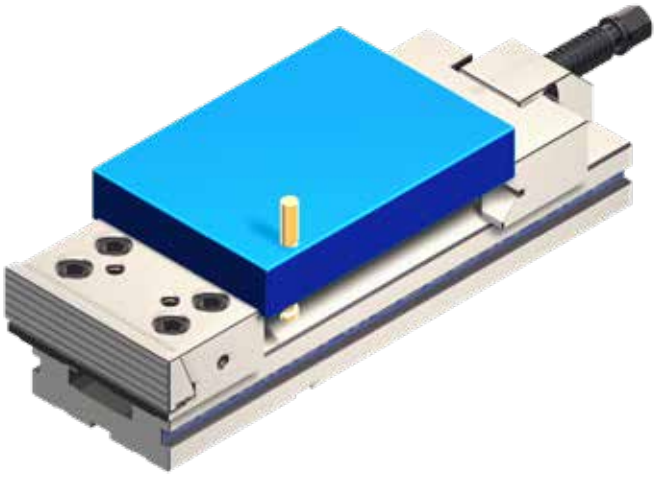
Art. 314
Coppia di piastre parallele angolari magnetiche
Pair of magnetic angolar parallels plates



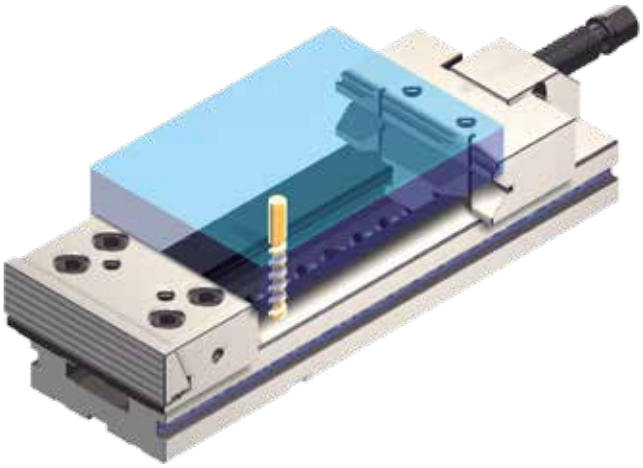
Esempio di applicazione
Application example



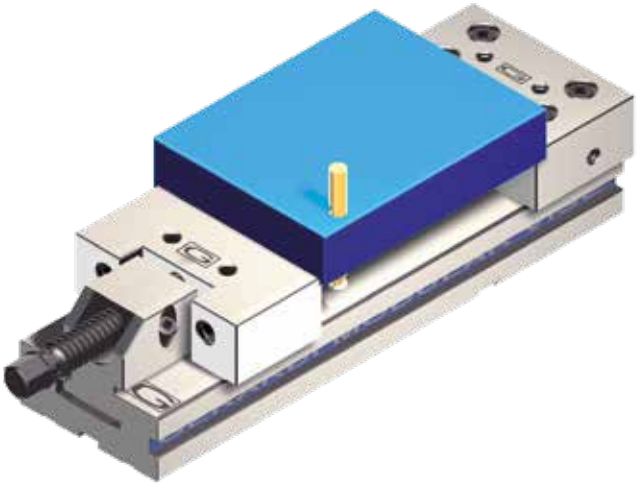
Esempio di applicazione
Application example



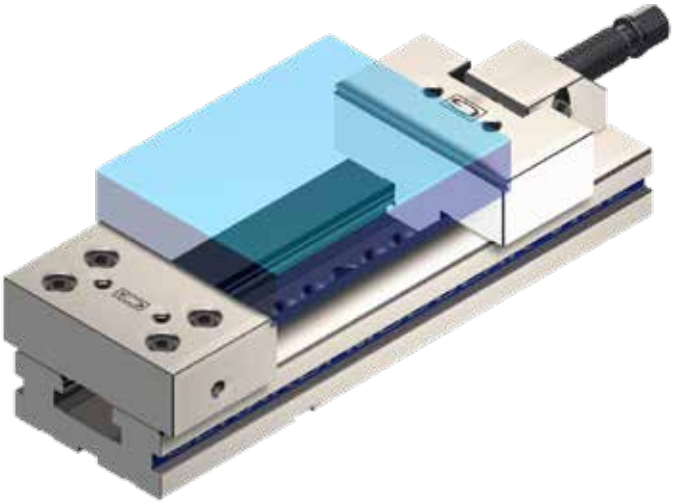
Gradini per eseguire fori passanti
Steps for drill through operations



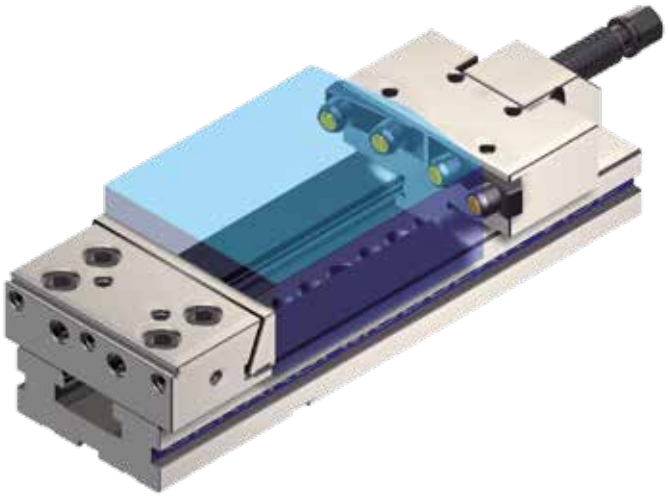
Gradini per eseguire fori passanti
Steps for drill through operations



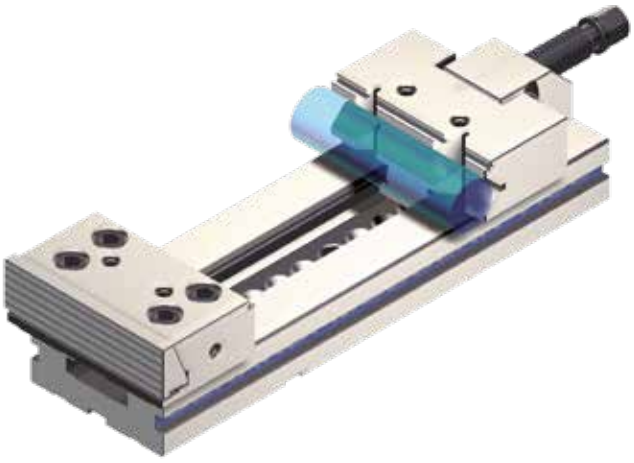
Ganasce monoblocco a gradino per fori passanti
Solid steps jaws for drill through operations

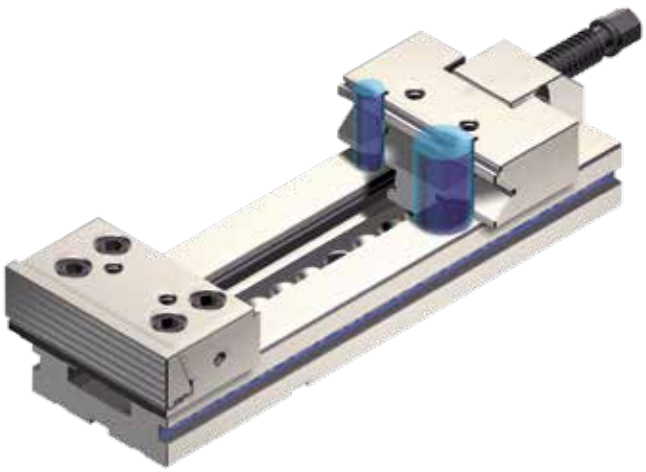


Ganasce monoblocco a gradino per fori passanti
Solid steps jaws for drill through operations

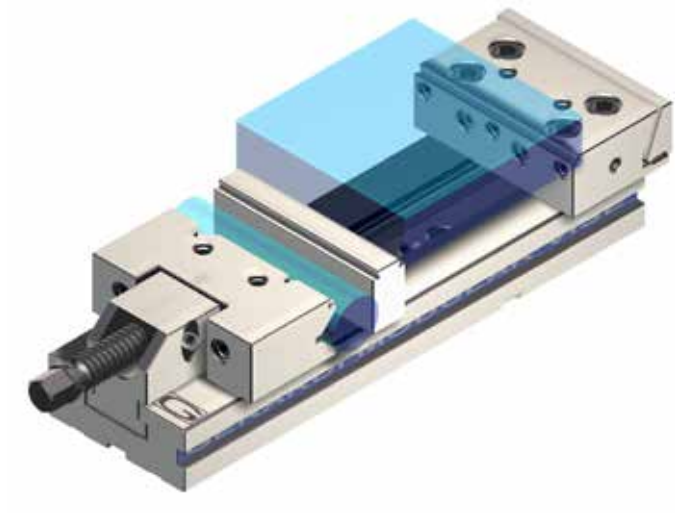


Ganasce con segmenti oscillanti e puntalini basculanti per grezzi molto irregolari
Floating elements for very rough workpieces

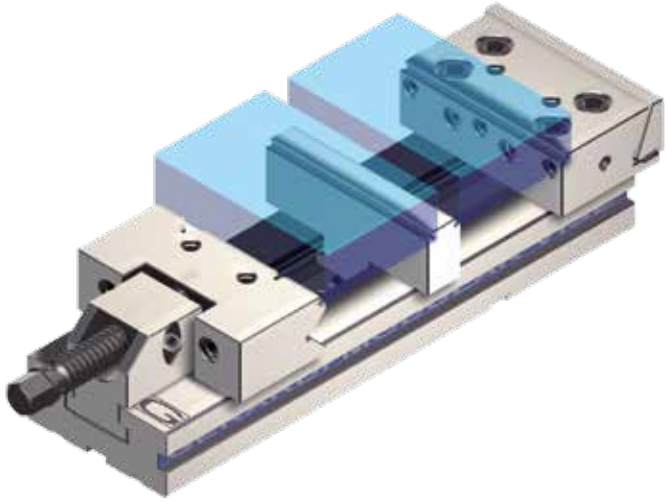




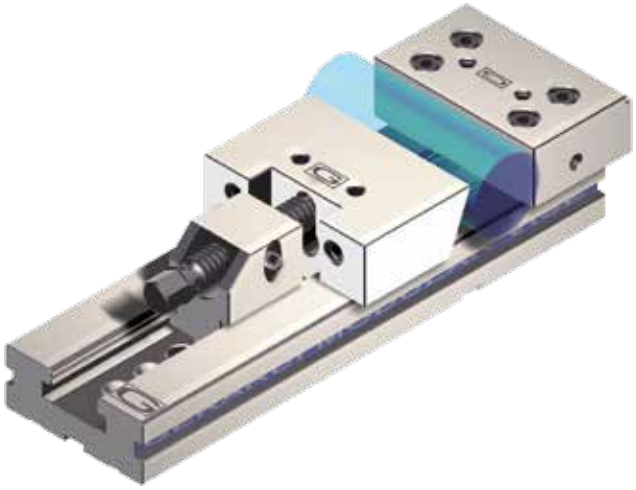
Ganascia prismatica per serraggio pezzi tondi in verticale & orizzontale - Prismatic jaw for round workpieces vertical & horizontal clamping



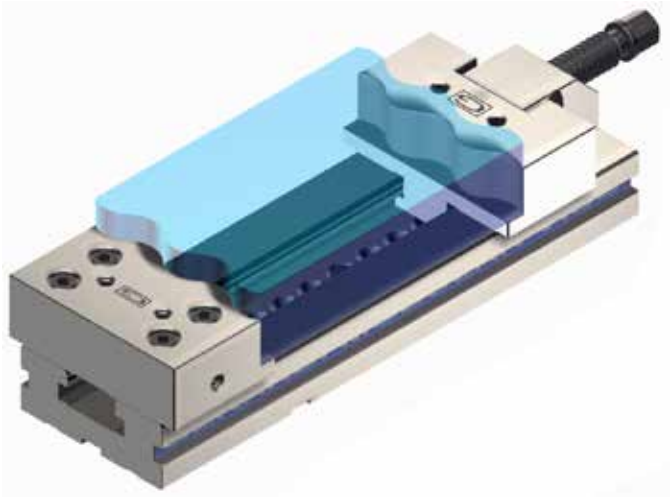
Art. 212
Ganascia mobile intermedia - Intermediate movable jaw



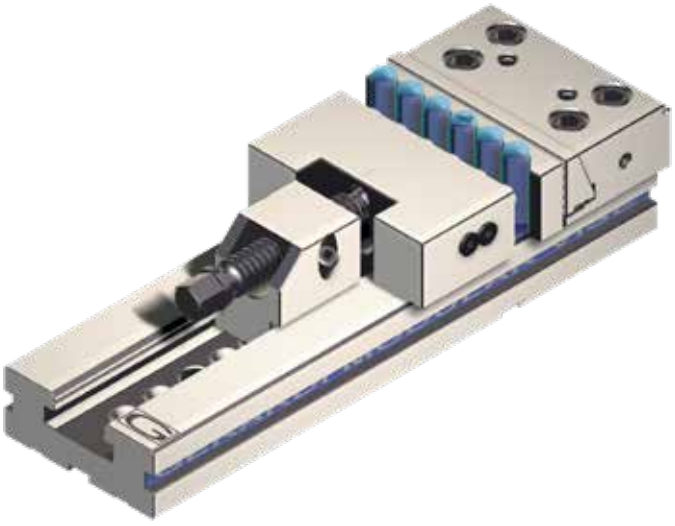
Art. 212
Ganascia mobile intermedia - Intermediate movable jaw



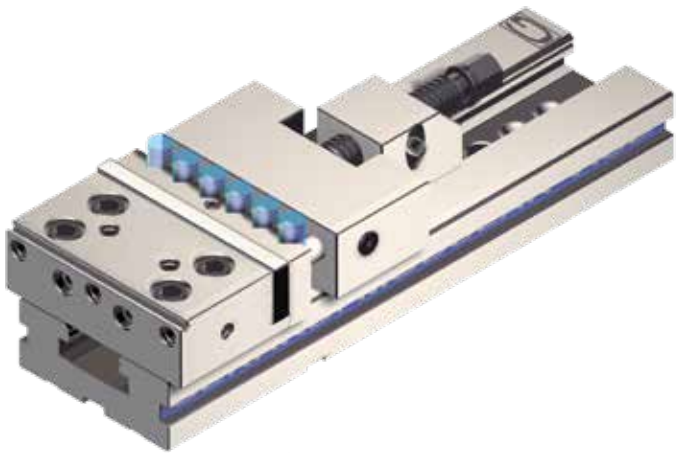
Art. 210
Ganascia mobile per pezzi tondi
Movable jaw for round workpieces



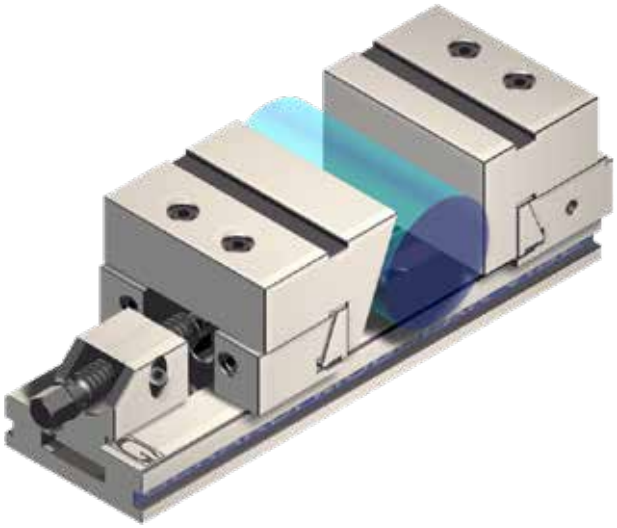
Art. 160 (Fixed) - Art 166 (Movable)
Ganascia tenera lavorabile per serrare pezzi di forme particolari
Soft steel machineable jaw for special shape workpieces



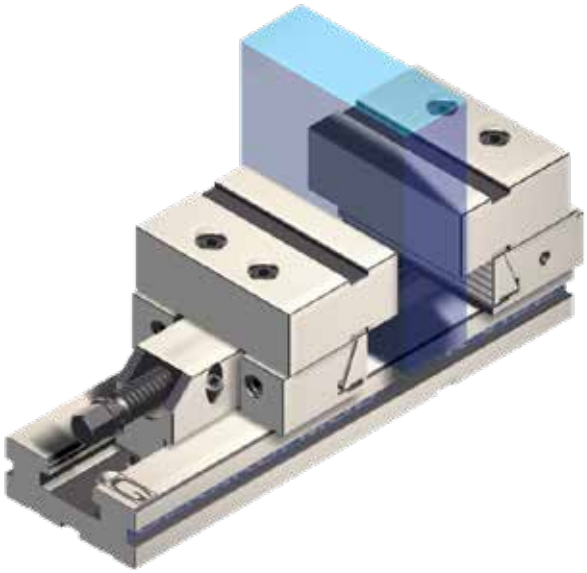
Art. 188
Ganascia mobile oleodinamica per serraggi in verticale di piccoli tondi
Hydraulic-control movable jaw for small round workpieces vertical clamping



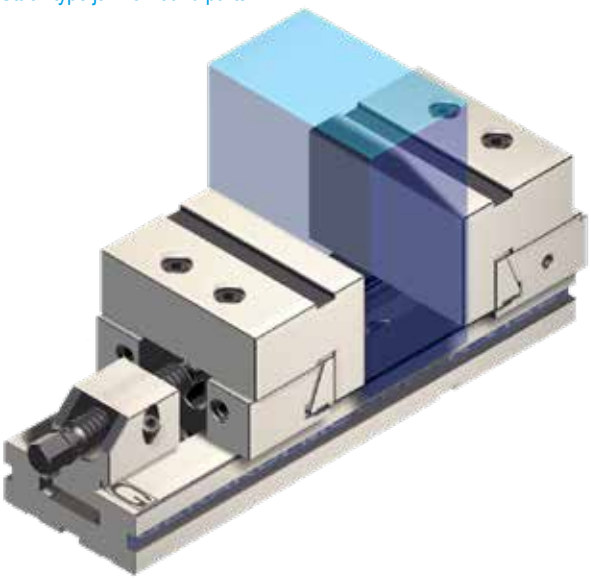
Art. 188
Ganascia mobile oleodinamica per serraggi in verticale di piccoli tondi
Hydraulic-control movable jaw for small round workpieces vertical clamping



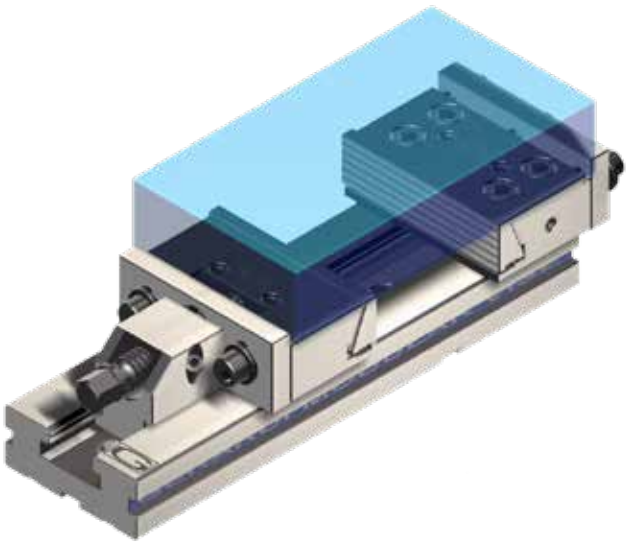
Art. 131
Ganascia sovrapponibile per pezzi tondi
Stack-type jaw for round parts



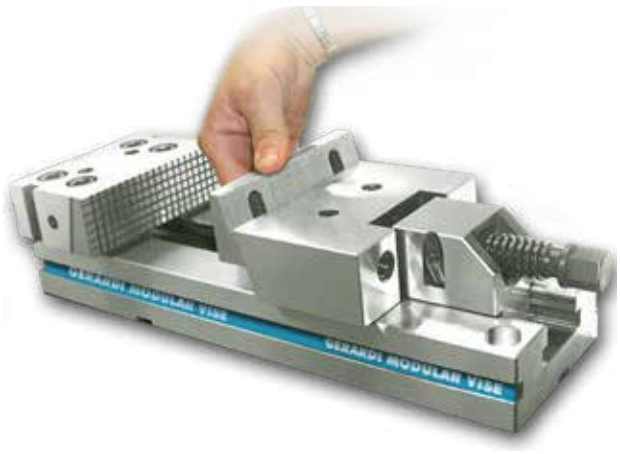
Art. 136
Ganascia sovrapponibile piana
Stack-type plain jaw



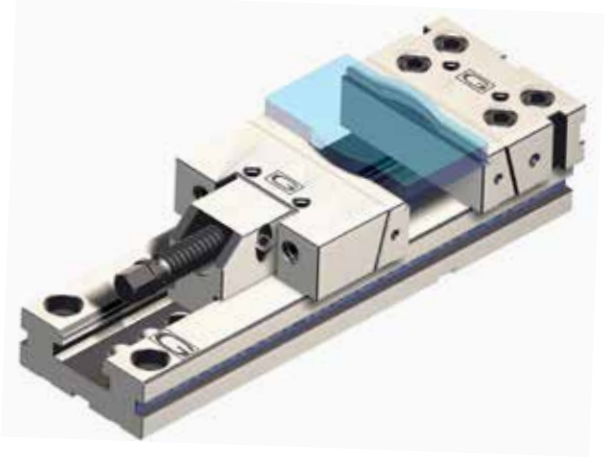
Art. 138
Ganascia sovrapponibile a squadra
Stack-type angle plate jaw



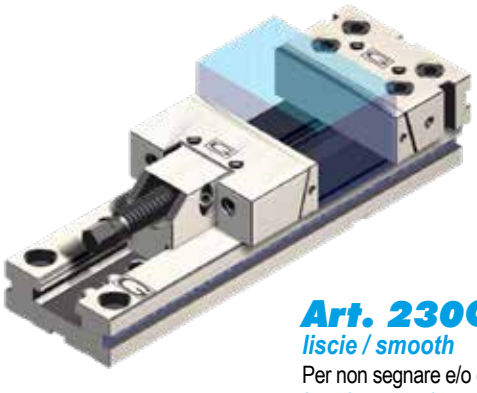
Art. 132/133
Prolunghe con viti per ganascia mobile e fissa
Extensions for movable and fixed jaw with screws



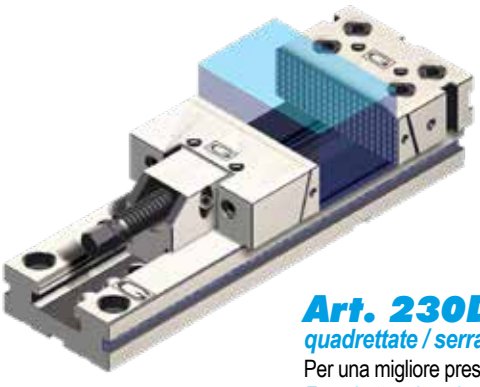
Art. 1A
Morsa con piastre ganascie
a CAMBIO RAPIDO (**SISTEMA A PETTINE**)
*Vise with QUICK CHANGE jaw plates (**COMB SYSTEM**)*



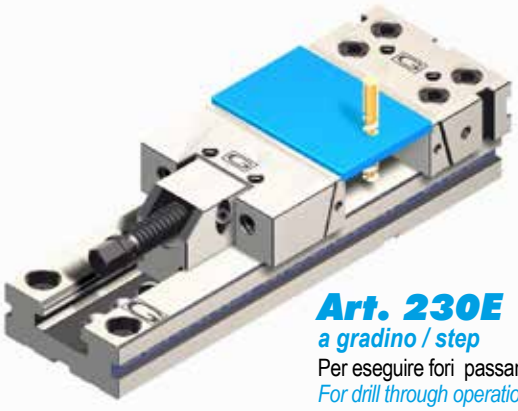
Art. 230B
Tenere lavorabili / Soft steel machineable
Per pezzi con forme particolari
For special workpiece shapes



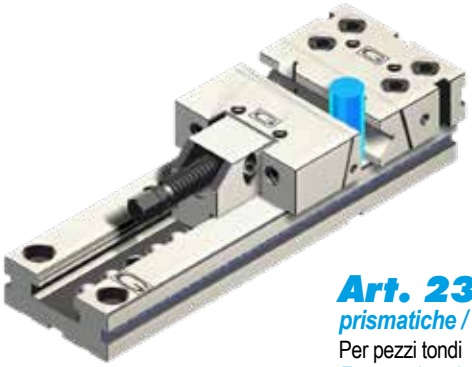
Art. 230C
liscie / smooth
Per non segnare e/o danneggiare i particolari
In order not to damage workpieces



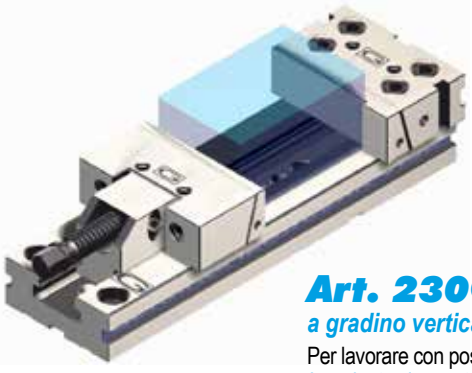
Art. 230D
quadrettate / serrated
Per una migliore presa pezzo
For a better clamping action



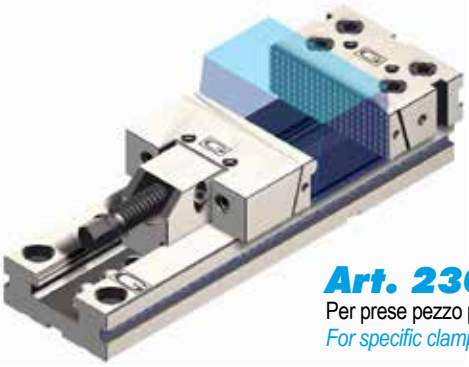
Art. 230E
a gradino / step
Per eseguire fori passanti
For drill through operations



Art. 230F
prismatiche / prismatic
Per pezzi tondi
For round workpiece

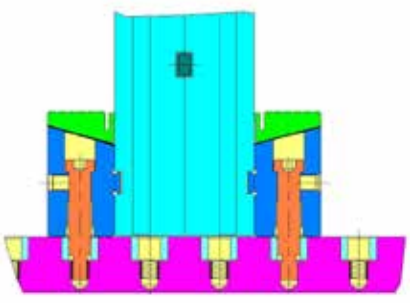


Art. 230G
a gradino verticale / vertical step
Per lavorare con posizioni speciali
In order to clamp at specific position

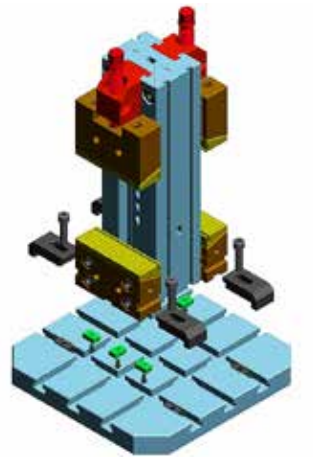


Art. 230H
Per prese pezzo particolari
For specific clamping surfaces

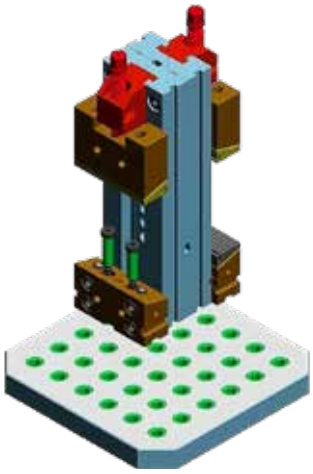
Art. 230M
a gradino inclinato / angle step
Per lavorare con angoli - *In order to clamp at specific angles*



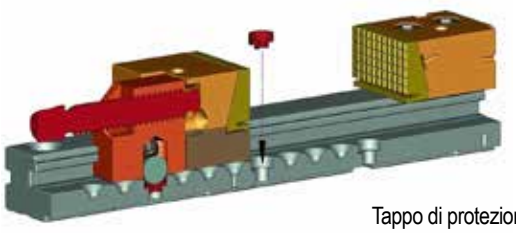
Ancoraggio e posizionamento su reticolo
Grid clamping and positioning



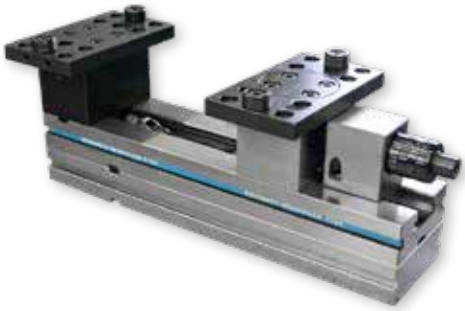
Ancoraggio e posizionamento con staffe e chiavette
Positioning and clamping through vise clamps and keys nuts



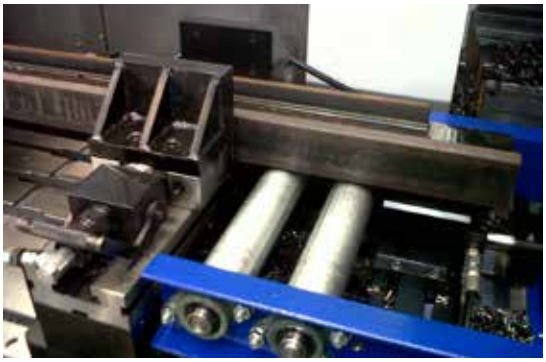
Ancoraggio e posizionamento su reticolo
Grid clamping and positioning



Tappo di protezione
Protection cap



Morsa STD Art.1 rialzata con moltiplicatore di forza Art.257 e ganasce oscillanti rialzate regolabili con inserti
STD Art.1 vise with bottom spacer/rise with Art.257 power multiplier and adjustable floating higher jaws with inserts



Morse Modulari automatizzate tramite cilindri idraulici e con supporto di bloccaggio a cambio rapido e personalizzate con sovra ganasce intercambiabili per la lavorazione di un telaio di un carrello elevatore.
Modular vises automatically operated through hydraulic cylinders with quick change blocking device and customized with interchangeable stack type jaws for machining a forklift frame

Morse modulari montate verticalmente su cubo portapezzi per lavorazioni su centro orizzontale
Modular Vises vertically assembled on a tombstone for horizontal machining centre.

Morse standard automatizzate su una macchina con tavola lunga 30 metri
Automated standard Vises on a 30 meter long machine tool

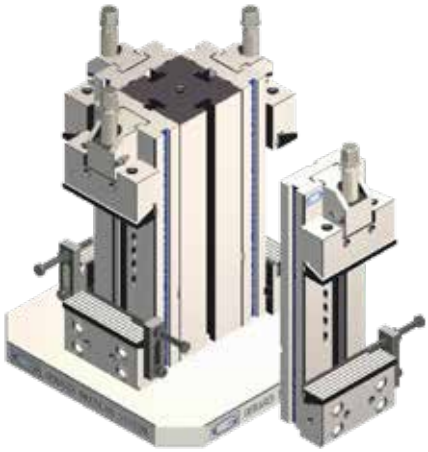
Morse Art.1 montate su tavola basculante per macchina a 5 ssi
Art.1 vises assembled on a dividing head for a 5 axis machine

Attrezzatura speciale per lavorazione piastre, sovratavole e pallet in una sola ripresa
Attrezzatura speciale per lavorazione piastre, sovratavole e pallet in una sola ripresa

Attrezzatura speciale su richiesta
Special feature on request

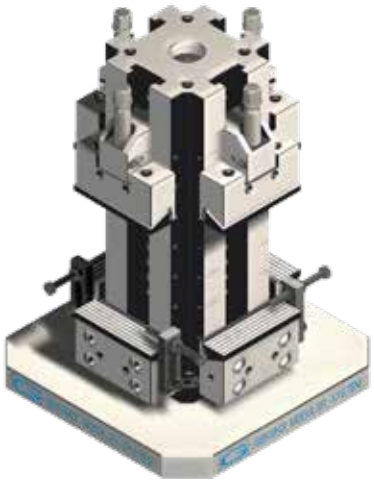
Art. 53D

Cubo per piastre riportate con montate piastre ed elementi modulari con sovraganasce
Tombstone with modular plates, fixed and movable vise sections and stack type jaws assembled



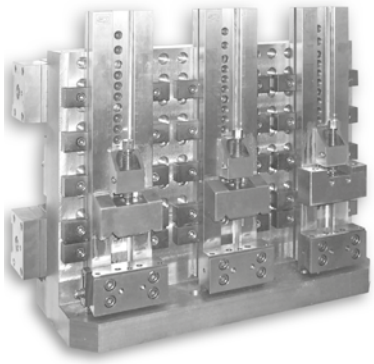
Art. 750

Morse standard montate verticalmente N°4 morse **STD Art.1** + N° 1 **Art.450**
Standard vises mounted verticaly N° 4 vises **STD Art.1** *+ N° 1* **Art.450**



Art. 700

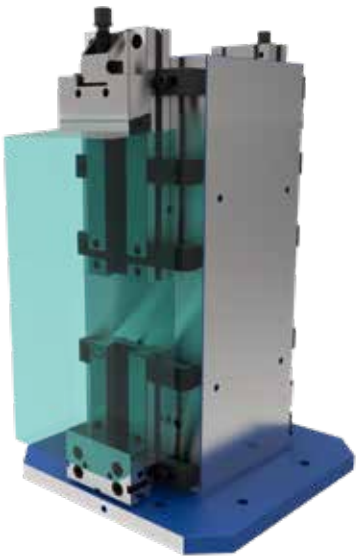
Cubo-morsa modulare standard (**Monoblocco**)
Standard modular vise tower (**Solid**)



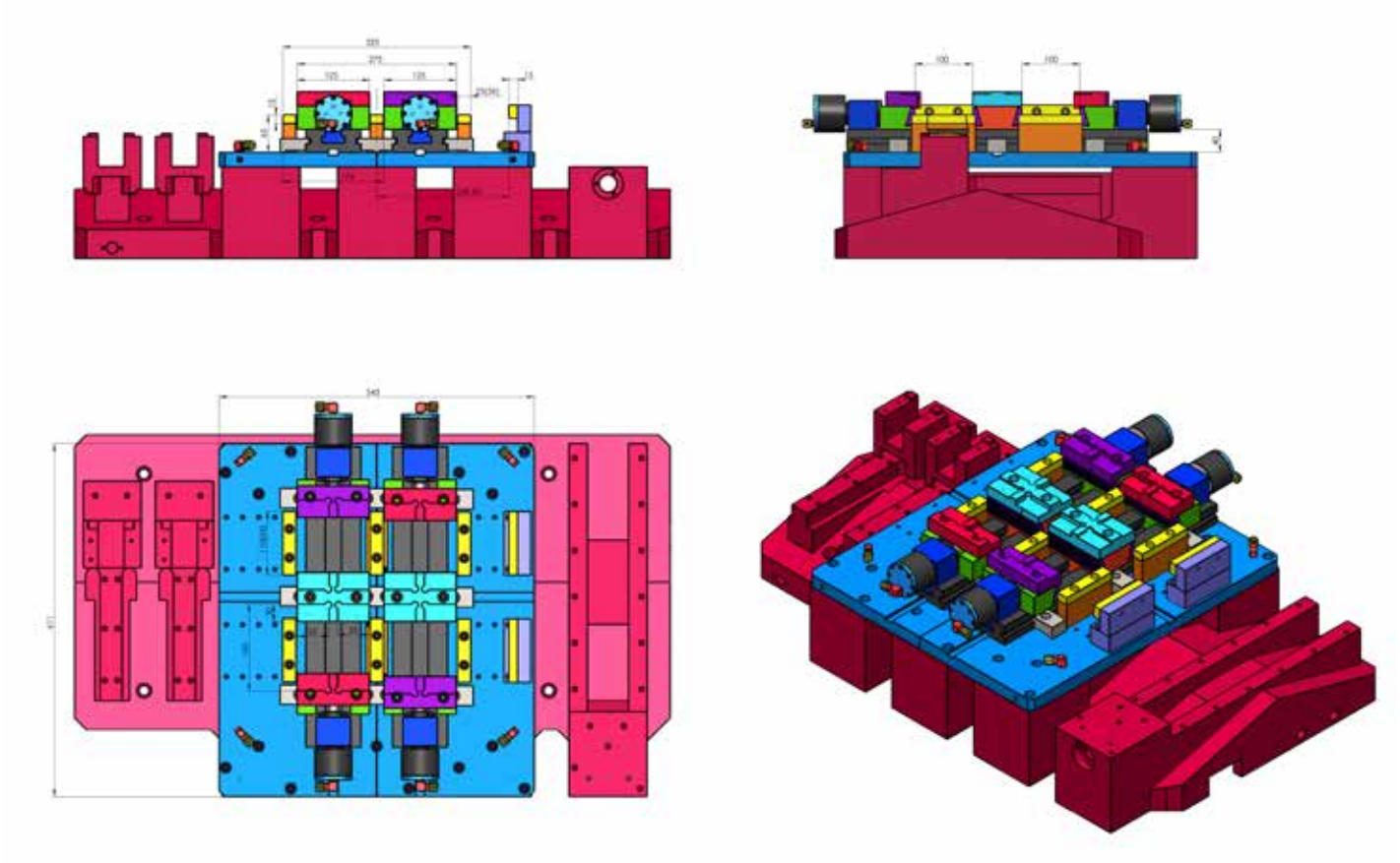
Morse **STD** montate verticalmente
STD vises vertically assembled

Morse **XL** doppie montate su spalla in orizzontale
XL *double vises horizontally assembled on a 2 sides tombstone*

Morse **STD** montate verticalmente
STD vises vertically assembled



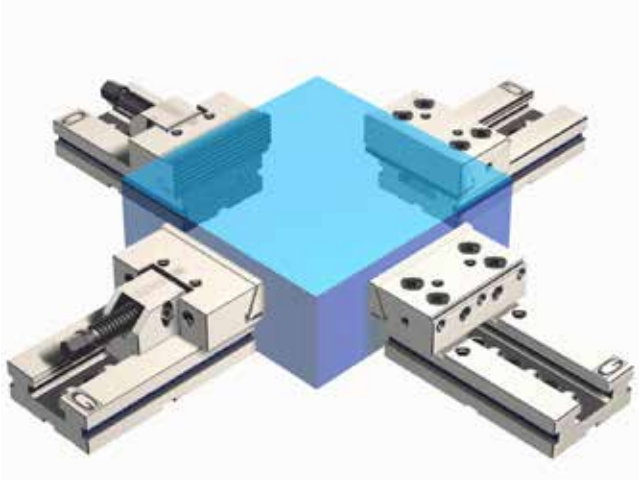
Attrezzatura speciale cubo **Art.53C** con morsa **Art.1A** ed elementi modulari
Special features, tombsone **Art53C** with vise **Art.1A** and modular elements



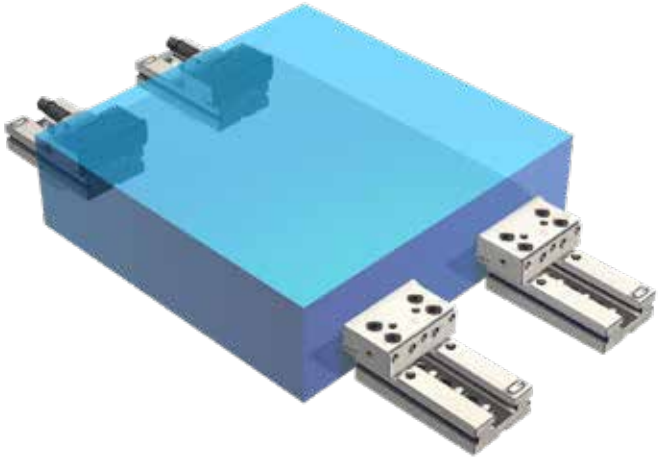
Art. 30

Morse Art.30 con ganasce a gradino speciali scaricate e cilindri idraulici
Art.30 vises with special step jaws and hydraulic cylinders

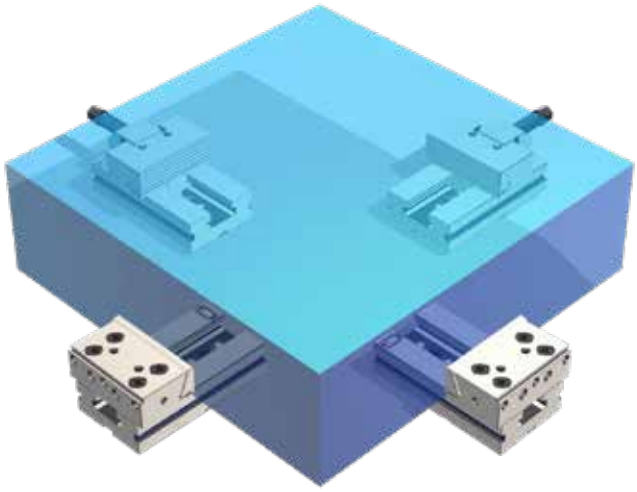
Morse Modulari XL doppie automatizzate tramite cilindri idraulici e personalizzate con sovra ganasce intercambiabili per presa pezzo in punti specifici con spine di riferimento per posizionamento preciso.
Double XL Modular vises automatically operated through hydraulic cylinders and customized with interchangeable stack type jaws for workpiece clamping in specific points with positioning pins as reference.



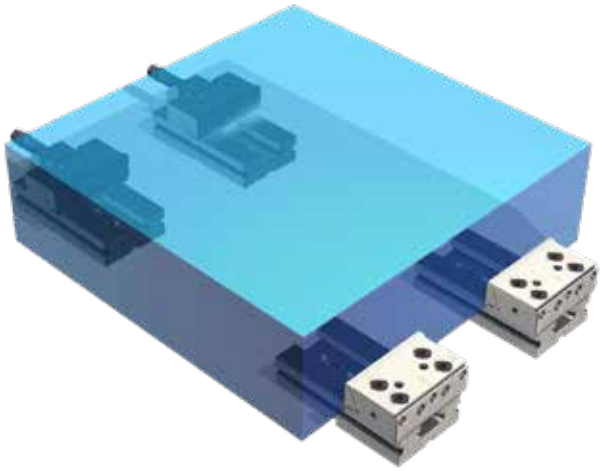
Particolare appoggiato direttamente sulla tavola della macchina
Huge workpiece clamped directly on the machine table



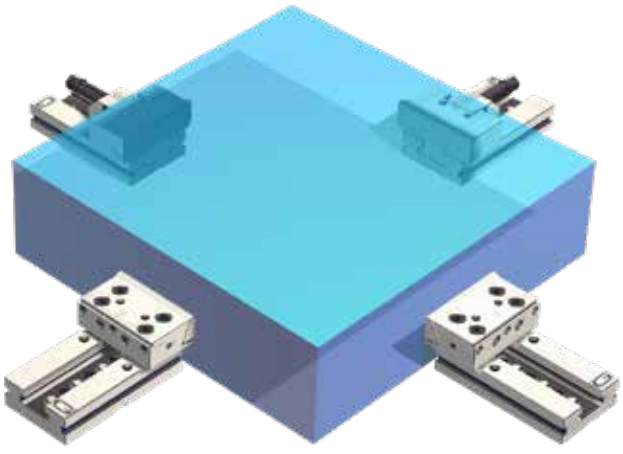
Particolare di grosse dimensioni appoggiato direttamente sulla tavola della macchina
Huge workpiece clamped directly on the machine table



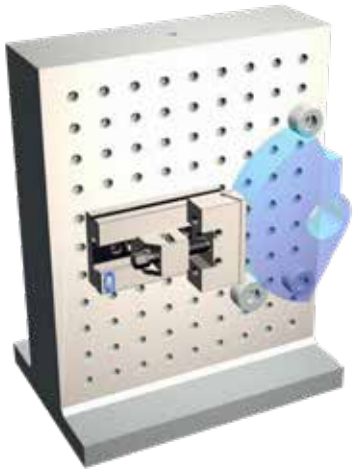
Particolare serrato tramite 4 elementi modulari :
2 sezioni mobili Art.102 e 2 sezioni fisse Art.103
Workpiece clamped through 4 modular elements:
2 movable sections Art.102 and 2 fixed sections Art.103



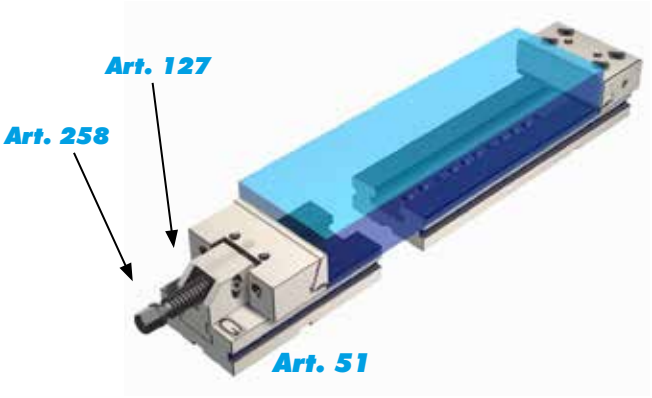
Particolare serrato tramite 4 elementi modulari :
2 sezioni mobili Art.102 e 2 sezioni fisse Art.103
Workpiece clamped through 4 modular elements:
2 movable sections Art.102 and 2 fixed sections Art.103

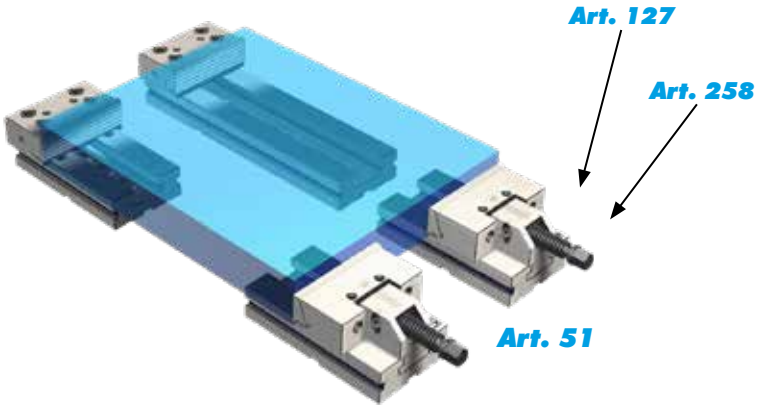


Particolare di grosse dimensioni appoggiato direttamente sulla tavola della macchina
Huge workpiece clamped directly on the machine table



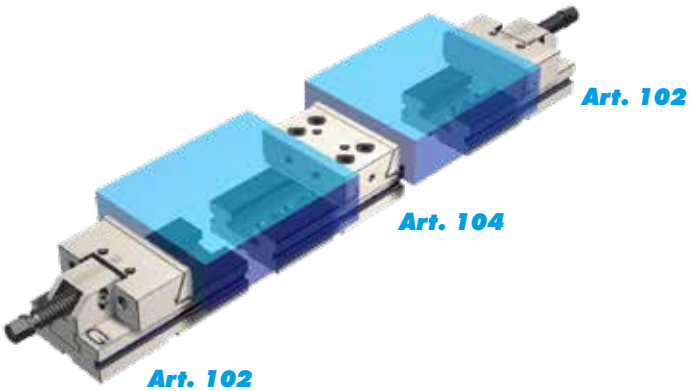
Particolare appoggiato direttamente sul piano spalla e serrato tramite una sezione mobile Art.102 e n.3 appoggi fissi.
Workpiece positioned directly on the tombstone and clamped through 1 movable section art.102 and n.3 fixed reference points.



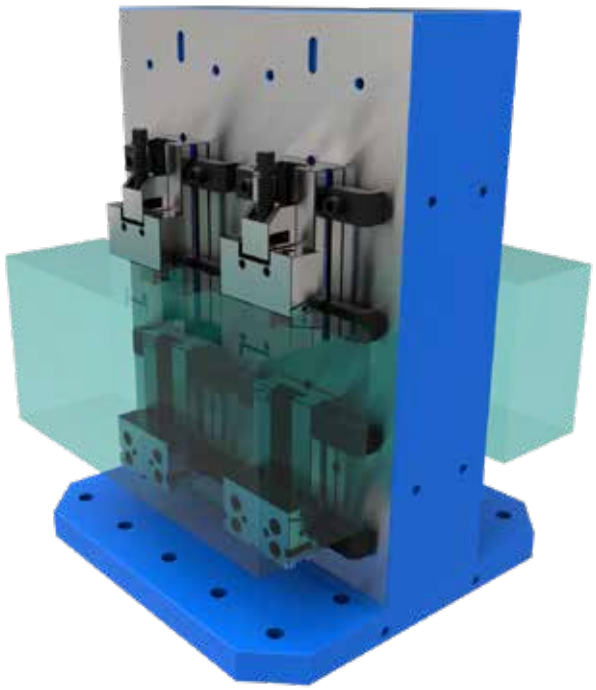


Art. 1 + Art. 51

Per realizzare una sezione mobile è sufficiente sfilare il gruppo di bloccaggio (Art. 208) + la ganascia mobile (Art.127) ed inserirli in un elemento di prolunga (Art.51)
In order to get a movable vise section it is enough to remove the blocking device (Art. 208) + the movable jaw (Art.127) and to assemble them on an extension base (Art.51)

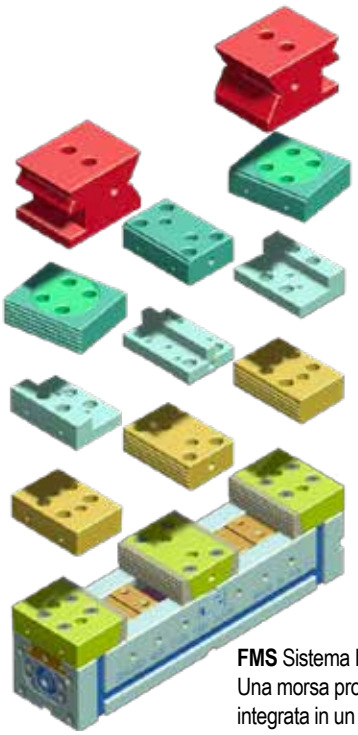


Elemento modulare fisso doppio (**Art.104**) + 2 elementi modulari mobili (**Art.102**)
Double fixed vise section (**Art.104**) + 2 movable vises sections (**Art.102**)

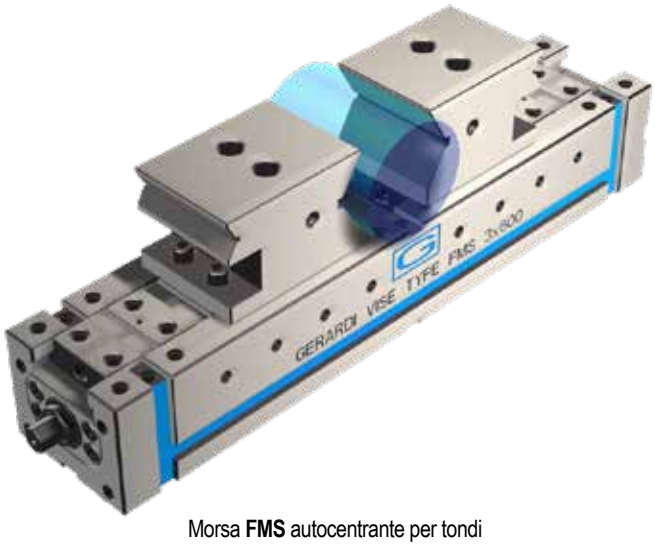


Spalla personalizzata **Art.55c** per elementi modulari Art.102i e Art.103i per il serraggio di particolari di grosse dimensioni.
Customized 2 side tombstone Art.55c for clamping elements Art.102i & Art.103i to clamping oversize workpieces.

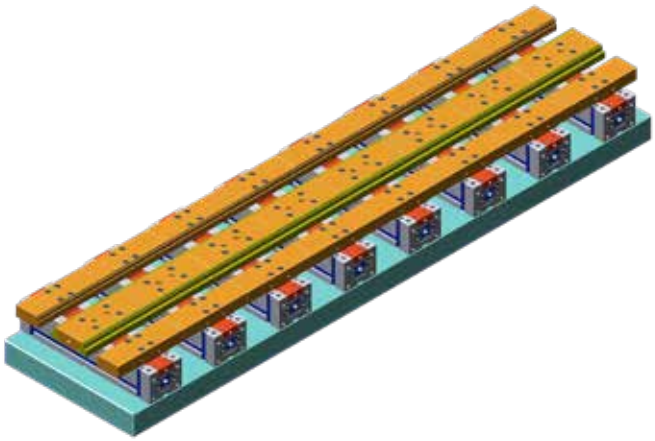
Attrezzatura idraulica speciale composta da elementi modulari tipo 1 con ganasce speciali applicati su tavola girevole
Special hydraulic equipment **Art.102** vises with hydraulic cylinders and stack types jaws for workpieces



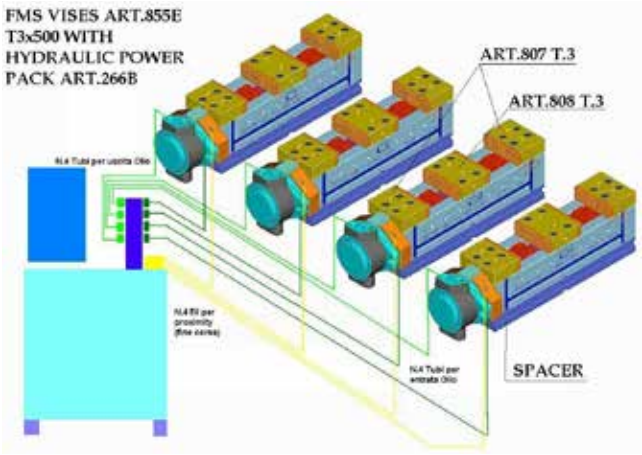
FMS Sistema Modulare Flessibile
Una morsa progettata per essere modulare ed essere integrata in un enorme sistema modulare
FMS Flexible Modular System
A vise designed to be modular and to be integrated into a widest workholding system



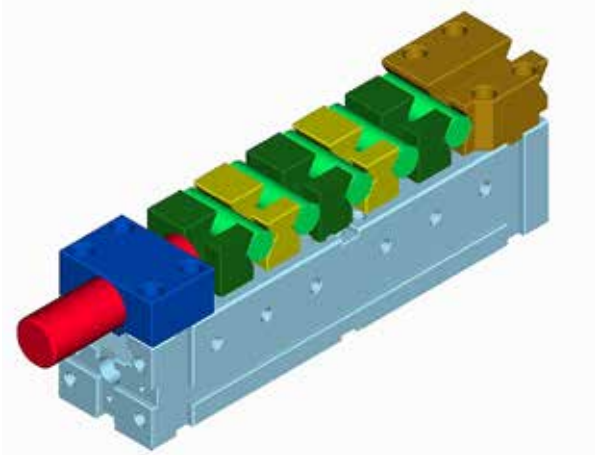
Morsa **FMS** autocentrante per tondi
FMS self-centering vise for round workpieces



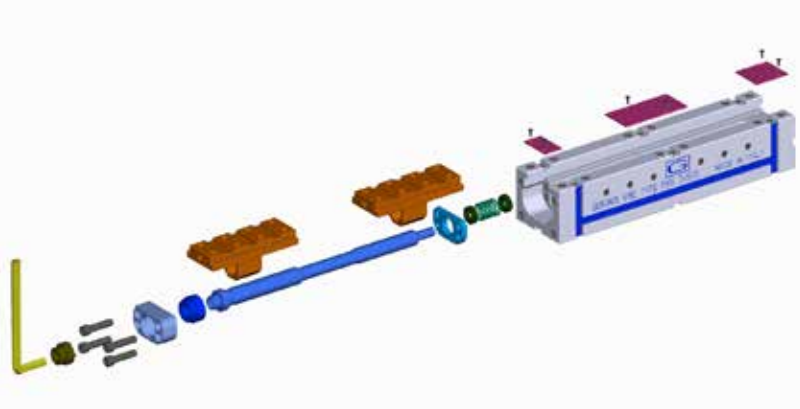
Ganascia speciale **FMS** per serrare barre molto lunghe
Special widest **FMS** jaws in order to clamp very long straight bars



Morse **FMS** con centralina



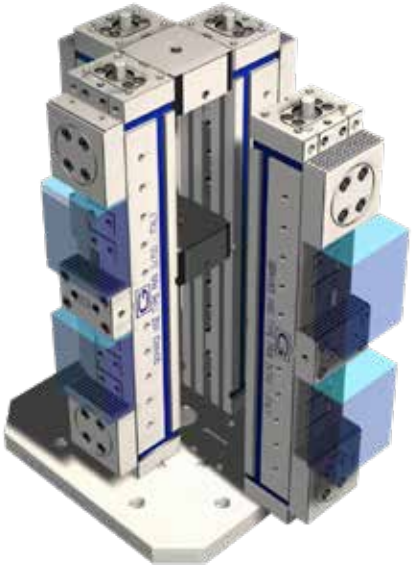
Utilizzo di una base **FMS** per serrare 4 pezzi con cilindro idraulico
FMS vise base used to clamp 4 workpieces through hydraulic cylinder



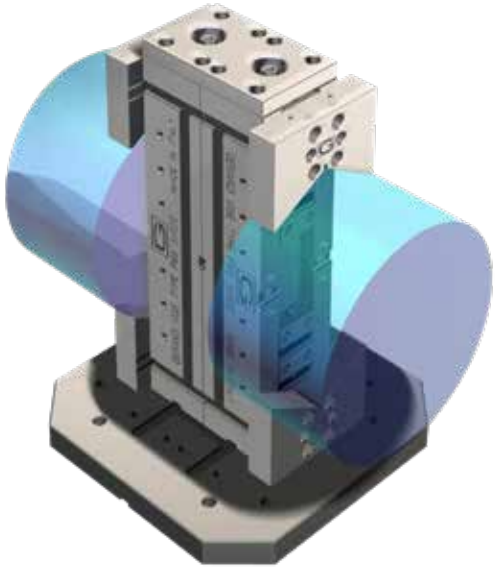
Esploso dei componenti
Explosion view

1° Fase di smontaggio morsa **FMS**
1st operation for **FMS** vise disassembling

2° Fase di smontaggio morsa **FMS**
2nd Operation for **FMS** vise disassembling

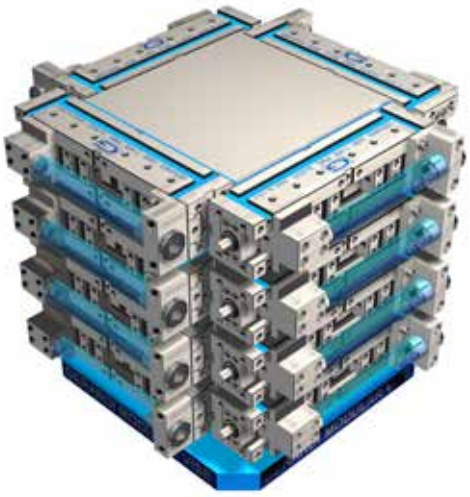


4 Morse **FMS** montate a croce tra loro tramite distanziali
4 **FMS** vises assembled crossway through spacers

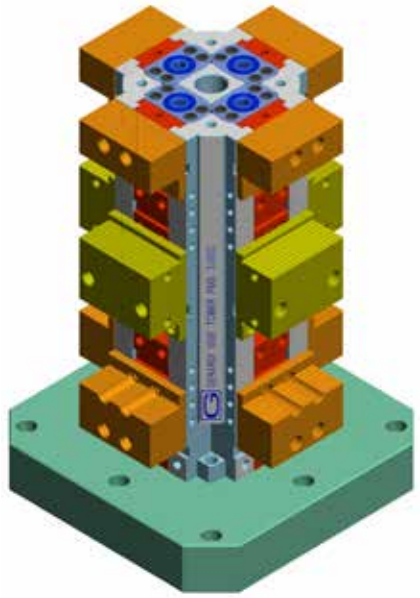


2 morse **FMS** montate verticalmente dorso a dorso con ganasce prismatiche per serrare particolari tondi
2 **FMS** vises vertically assembled back to back with prismatic jaws for round workpiece clamping

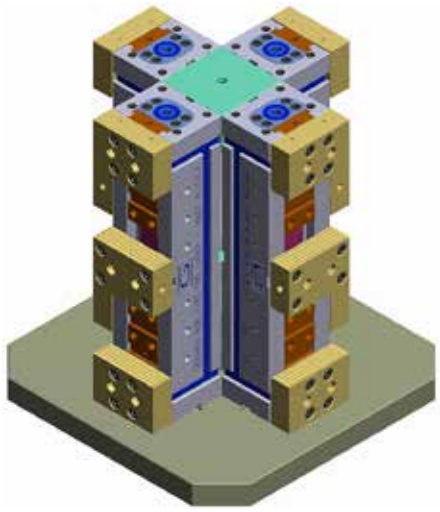
8 Morse **FMS** con moltiplicatore di forza (**Art. 802**) montate su cubo a croce (**Art.57**)
8 **FMS** vises with power multiplier (**Art. 802**) assembled on a cross cubetower (**Art.57**)



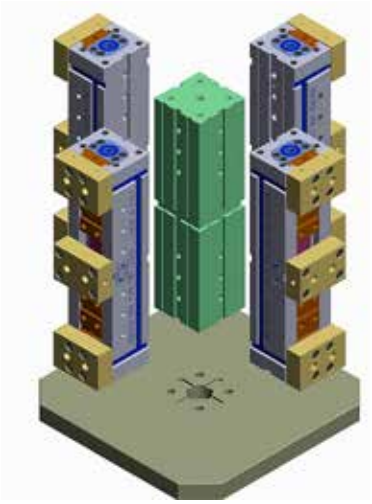
Cubo **Art.53D** con montate morse **FMS** con ganasce personalizzate per centraggi particolari
Art. 53D tombstone with **FMS** vises with special jaw for workpiece centering assembled



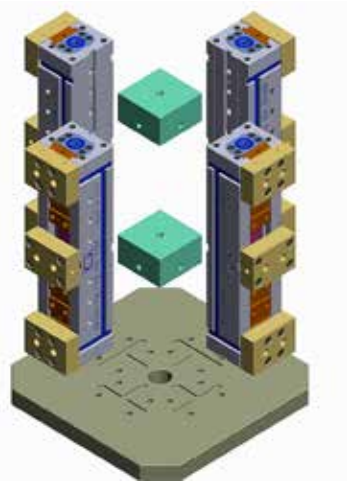
Cubomorsa **FMS** monoblocco per serraggio di 8 particolari contemporaneamente
FMS vise tower for 8 workpieces clamping in one set up



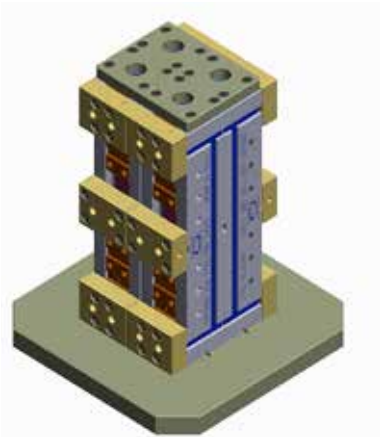
Art. 860
Cubo morsa **FMS** doppio con ganascia centrale fissa per il serraggio di 8 pezzi.
Double **FMS** vise tower with fixed middle jaws for 8 clamping stations



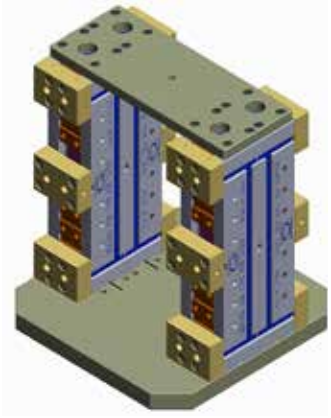
Vista esploso N°4 morse **FMS** montate a croce con supporto centrale (836), e piastra base (827)
Explosion view N°4 **FMS** vises cross-mounted with center support (836), and base plate (827)



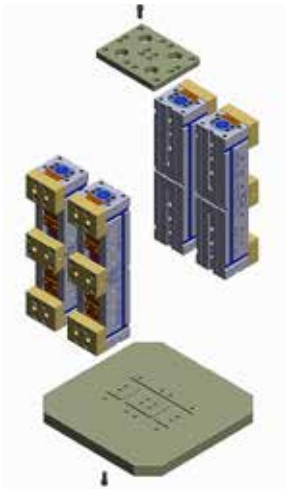
N°4 morse **FMS** montate a croce su piastra base (827), con distanziali (835)
N°4 **FMS** vises cross-mounted on a base plate (827),with spacer (835)



N°4 morse **FMS** montate dorso a dorso, fianco a fianco, su piastra base (827) con piastra di collegamento (832)
N°4 **FMS** vises mounted back-to-back, side by side, on base plate (827) with connecting plate (832)

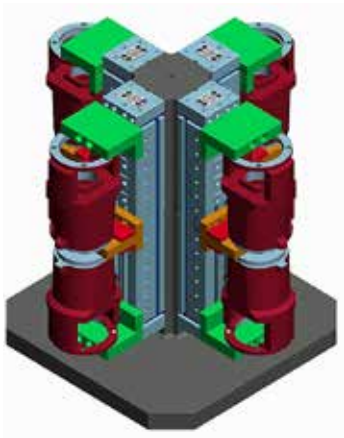


N°4 morse **FMS** montate dorso a dorso su piastra base (827) con piastra di collegamento (832)
N°4 **FMS** mounted back-to-back, on base plate (827), with connecting plate.

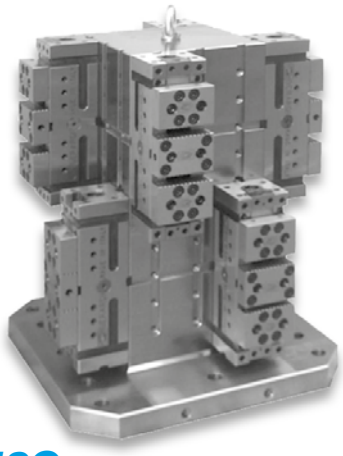


Vista esploso N°4 morse **FMS** montate a croce con supporto centrale (836), e piastra base (827)
Explosion view N°4 **FMS** vises cross-mounted with center support (836), and base plate (827)

Cubomorsa **FMS** *doppio, per serraggio 8 pezzi. Rubinetteria*
FMS *visetower with double station for 8 workpieces clamping. Taps*

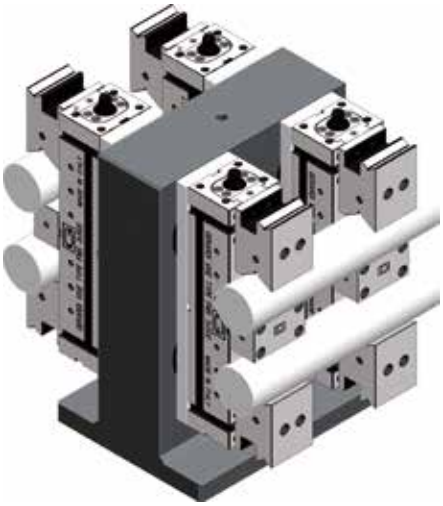


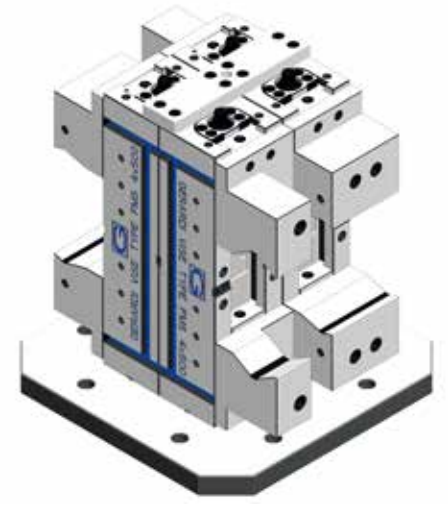
8 valvole serrate con un'unica attrezzatura tramite 4 morse **FMS** montate verticalmente
8 pieces valves clamped in 1 setup through 4 **FMS** vises vertically assembled



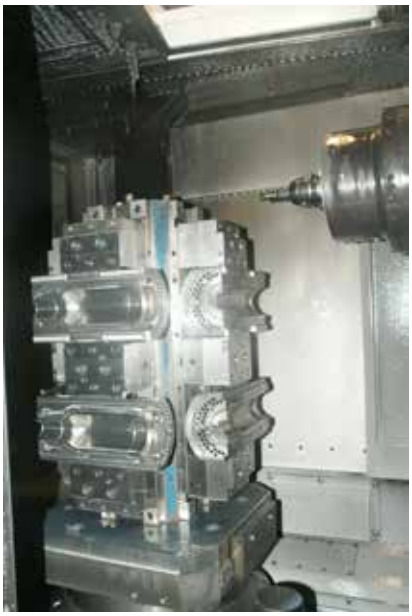
Art. 53G
Cubo con cave, con montate n° 8 morse **FMS** doppie in verticale
T-slot tombstone with 8 double **FMS** *vises vertically mounted*

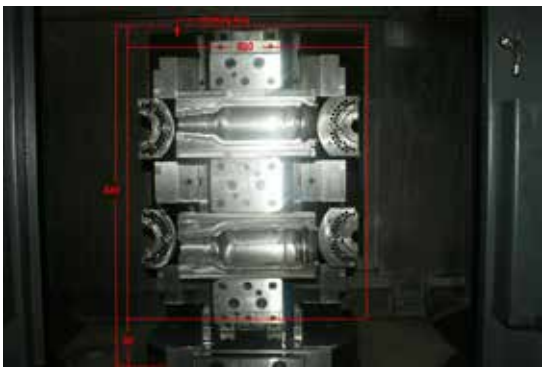
Morse **FMS** montate orizzontalmente
FMS *vises horizontally mounted*





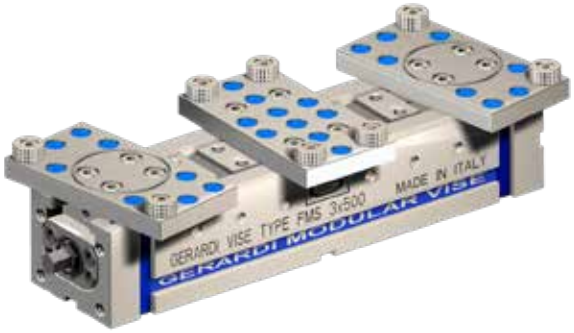
Morse FMS montate verticalmente dorso a dorso per serrare particolari cilindrici tramite ganasce prismatiche Art.810J SPECIALI realizzate su progetto di massima del cliente
FMS vises vertically assembled back to back to clamp a cylindrical work-piece with SPECIAL design prismatic jaws Art.810J according to customer draft project



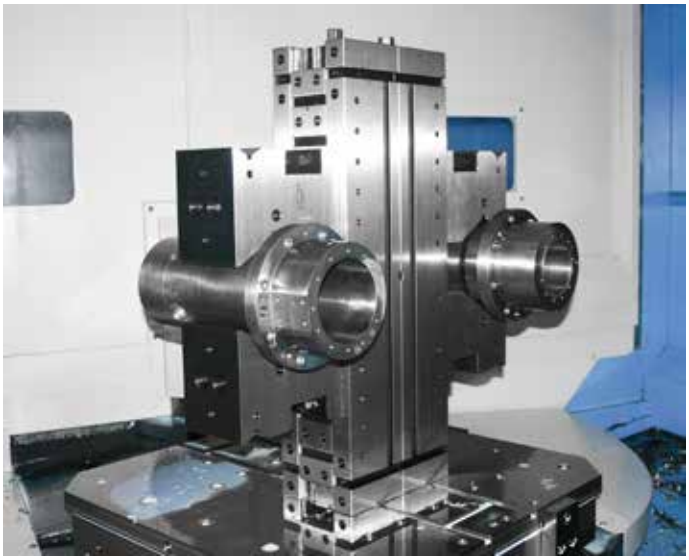


Cubomorsa **FMS** con ganasce speciali per presa stampi di bottiglia
FMS vise tower with special jaws to clamp bottle moulds

Morse FMS montate verticalmente a triangolo per serrare particolari semitondi/stampi
3pcs. FMS vise vertically mounted in a triangle in orser to clamp round workpieces/moduls

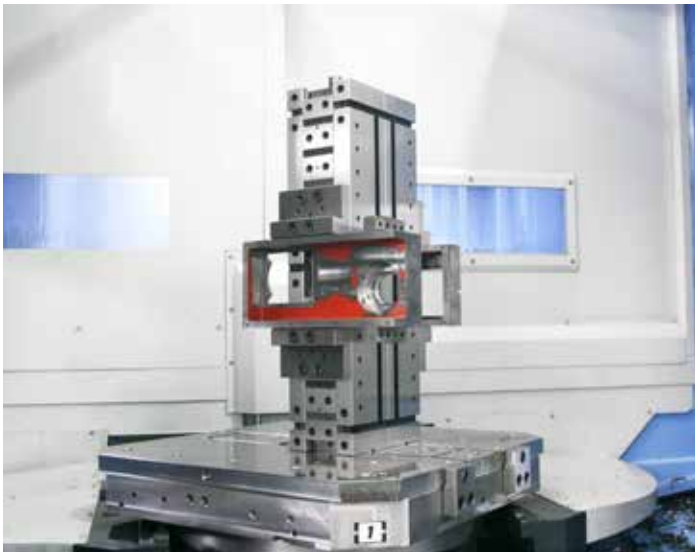


Morsa FMS (con ganasce oscillanti e puntalini meccanici) per serraggio pezzi irregolari
FMS vise (with floating jaws and mechanical grip points) for irregular workpieces clamping



Cubo di morse autocentranti FMS montate in verticale con ganasce prismatiche per pezzi tondi

Vise tower made of 2 self-centering FMS vises vertical mounted back-to-back with prismatic jaws for round work-pieces



Cubo di morse autocentranti FMS montate in verticale con ganasce lisce a gradino per pezzi squadrati

Vise tower made of 2 self-centering FMS vises, vertical mounted back-to-back with smooth step jaws for square work-pieces

Esempio di massima capacità di presa pezzo delle morse FMS per un miglior utilizzo delle corse del centro di lavoro orizzontale

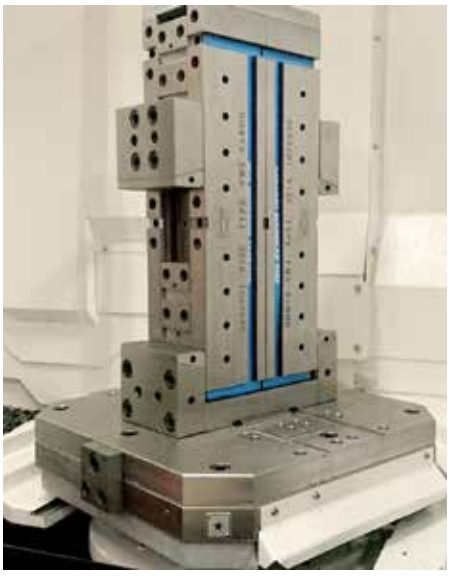
Example of FMS vises maximum clamping capacity for a better xploit of the machining center runs

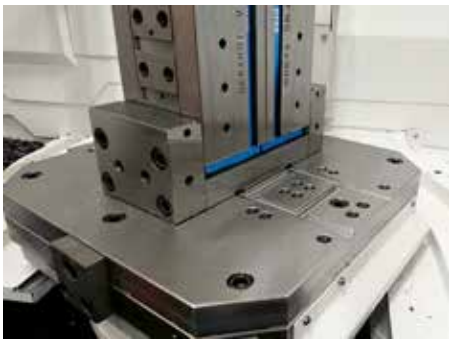
Foratura interna tramite testa angolare Gerardi Evolution Line serie ATC (da cambio utensile automatico)

Internal drilling by Gerardi angle heads Evolution line - ATC series (Automatic tool change)

Cubomorse FMS progettato con principio di spinta a 45 gradi per serrare 2 sbozzi di turbina su ogni faccia per la loro prima operazione.

FMS Vise Towers designed with 45 degree principle for clamping two turbine blade blanks each tower face for their first operation.

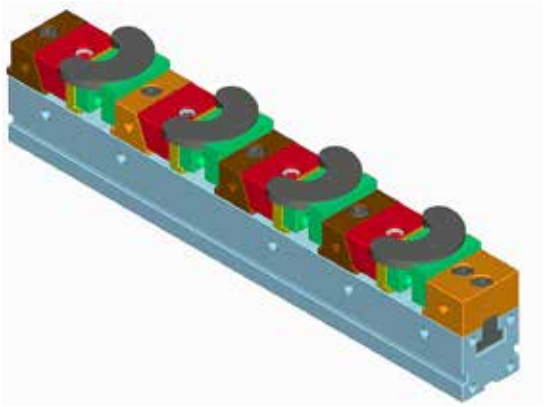




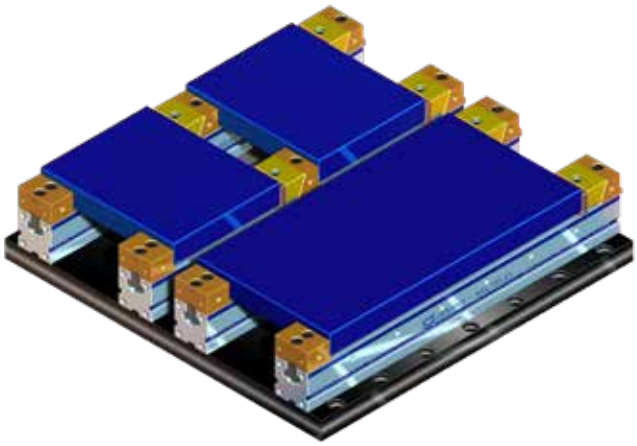
Morse autocentranti FMS con ganasce quadrettate montate in verticale dorso a dorso su centro Mazak Horizontal 500/50 per sgrossatura di particolari prismatici (blocchi idraulici).

Vise tower made of 2 FMS vises, vertical mounted back to back on Mazak Horizontal 500/50 centres for rough milling workpieces (hydraulic shareline block)

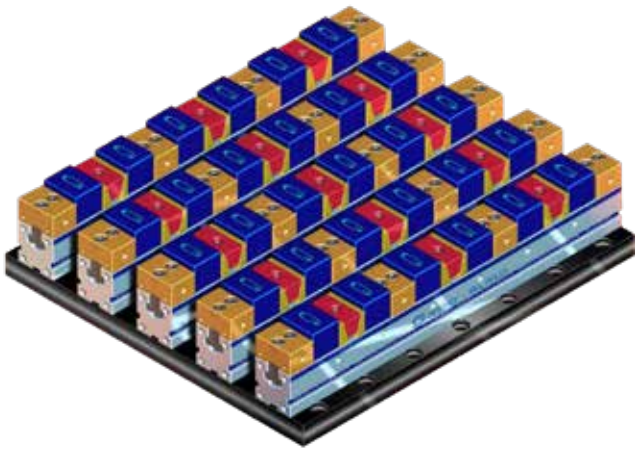
Morsa **MULTIFLEX** predisposta per il serraggio di 5 pezzi di diverse dimensioni con ganasce speciali più larghe della base
MULTIFLEX vise setup for 5 different workpieces with special wider jaws



Morse **MULTIFLEX** con ganasce dolci personalizzate per serraggio pezzi di forma particolare
MULTIFLEX vise with taylor made soft steel jaws for special shaped workpieces



Esempio di applicazione di 4 morse **MULTIFLEX** su sovratavola per diversi tipi di serraggio e lavorazione
4 **MULTIFLEX** vises assembled on head plate for different workpieces clamping and machining



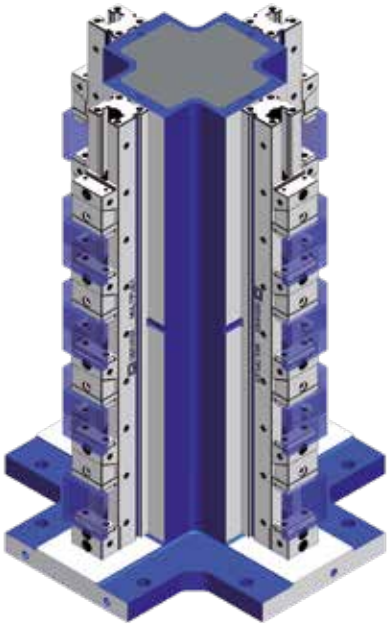
Esempio di applicazione di 5 morse **MULTIFLEX** su sovratavola per serraggio di 30 pezzi
5 **MULTIFLEX** vises on head plate for 30 workpieces clamping

Art. 605
Ganascia mobile e fissa liscia
Fixed and movable smooth jaws

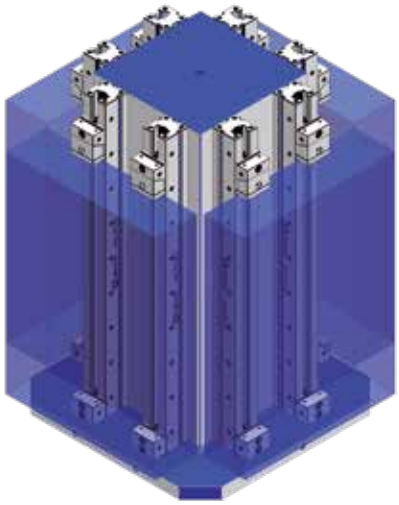
Art. 615
Ganascia con cuneo di posizionamento maggiorato
Jaw with bigger positioning wedge
(increased with respect to standard dimension)

Art. 609
Ganascia mobile e fissa con gradino
Fixed and moving jaw with step

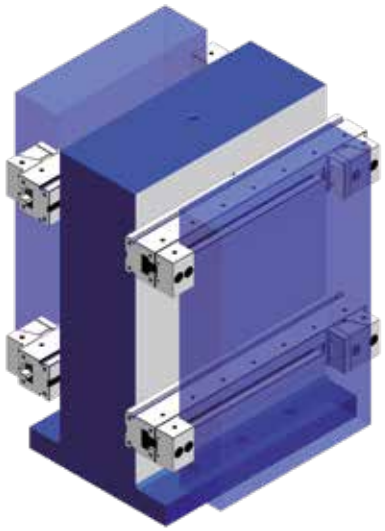
Art. 613
Ganascia mobile di spinta doppia
Double clamping movable jaws



Cubo a croce con N° 4 morse **MULTIFLEX** per il serraggio di 16 pezzi.
Crosscube with N°4 **MULTIFLEX** vises mounted for N°16 workpieces clamping



Cubo a croce con N° 2 morse **MULTIFLEX** per lato, montate verticalmente per il serraggio di pezzi di grandi dimensioni.
N°2 **MULTIFLEX** vises vertically assembled on cast iron tombstone for huge workpieces clamping

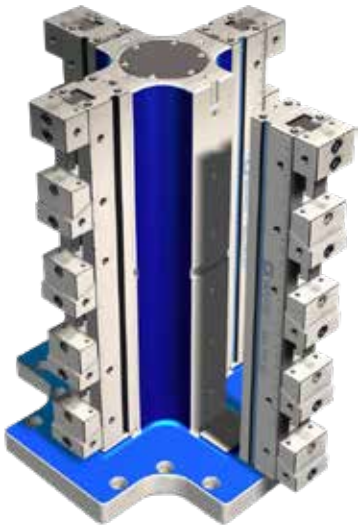


Spalla in ghisa con morse **MULTIFLEX** montate orizzontalmente per il serraggio di pezzi di grandi dimensioni
2 side tombstones with **MULTIFLEX** vises horizontal mounted for huge workpieces clamping

Cubo morsa **MULTIFLEX** integrale monoblocco
Solid and compact **MULTIFLEX** vise tower

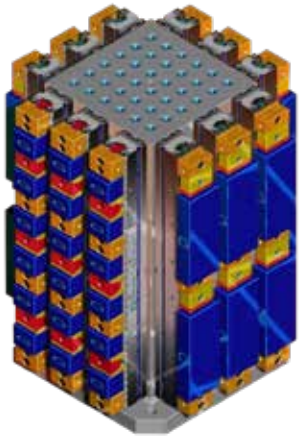
Cubo morsa **MULTIFLEX** integrale monoblocco
Solid and compact **MULTIFLEX** vise tower

Corpo base cubo morsa **MULTIFLEX** a croce
Solid crosstype **MULTIFLEX** vise tower body

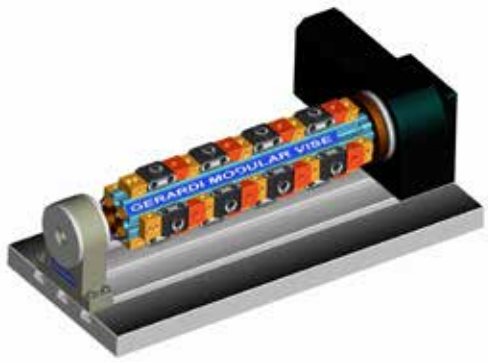


Cubo a croce in ghisa per applicazione **MULTIFLEX** e/o **FMS** in verticale
Cast iron crosstype tower for **MULTIFLEX** or **FMS** vises vertical assembling

Morse **MULTIFLEX** montate verticalmente su cubi portapezzi in ghisa
MULTIFLEX vises vertically assembled on cast iron tombstone

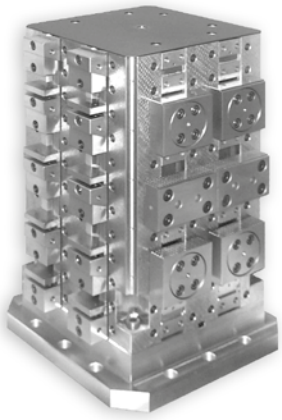


Morse **MULTIFLEX** montate verticalmente su cubi portapezzi in ghisa
MULTIFLEX vises vertically assembled on cast iron tombstone



Cubo morsa **MULTIFLEX** montato su divisore in orizzontale per applicazione su centri di lavoro verticali
MULTIFLEX vise tower assembled on a horizontal dividing head for application on vertical machining centre

Art. 53D
Cubo per piastre riportate con montate piastre e morse **MULTIFLEX** in verticale
Tombstone with modular plates and **MULTIFLEX** *vises vertically assembled*



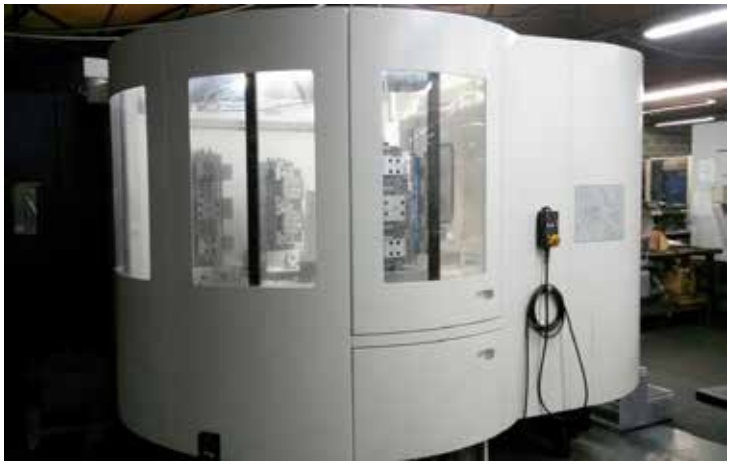
Sistema modulare multiplo: un lato morse **FMS**, un lato morse **MULTIFLEX**
Multi-modular System: one side with **FMS** vises and one side with **MULTIFLEX** vises

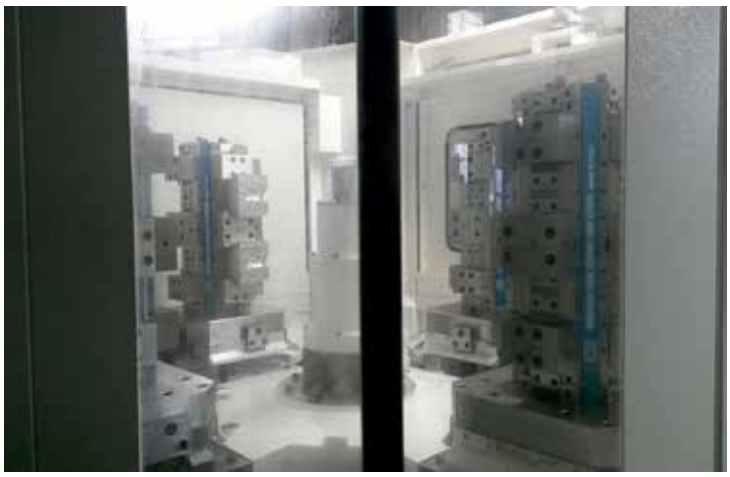
Morse Multiflex Art.611 Tipo 1x700 mm con ganasce doppie montata su centro di lavoro Haas VF-2 longitudinalmente rispetto alla tavola.
Multiflex vises Art.611 Type 1 x 700 mm with double jaws shown on a Haas VF-2 machining centre along the X travel

Cubo-Portapezzi a croce Art.57 con montate morse Multiflex Art.600 - Dimostrano la grande capacità e forza di serraggio delle morse Multiflex anche durante lavorazioni pesanti/grosse asportazioni
Cross Type Tombstone Art.57 with Multiflex vises Art.600 mounted Evidence of the Highest Clamping power of Multiflex vises during heaviest machining

Cubomorsa Multiflex con relativa piastra di interfaccia montato su tavola girevole
Multiflex vise tower with interface plate assembled on rotary table

Particolari fuori dimensione ma lavorati su cubo Multiflex Art.607 tipo 2 - Rather big work-pieces machined on a Multiflex vise tower Art.607 Type 2_pic2





Cubimorsa FMS su centro di lavoro orizzontale
FMS Visecubes on horizontal machining centre

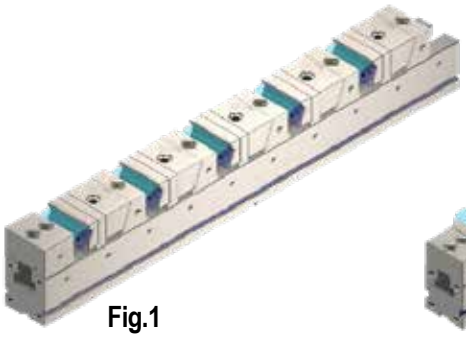


Fig.1

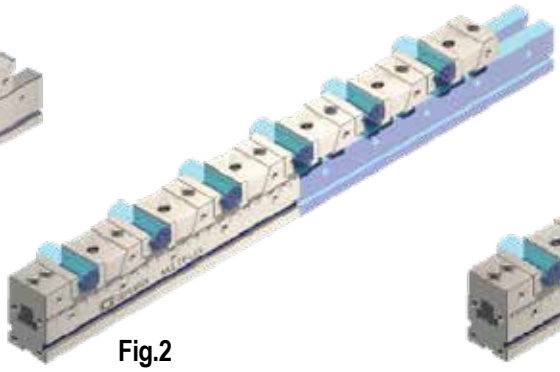


Fig.2

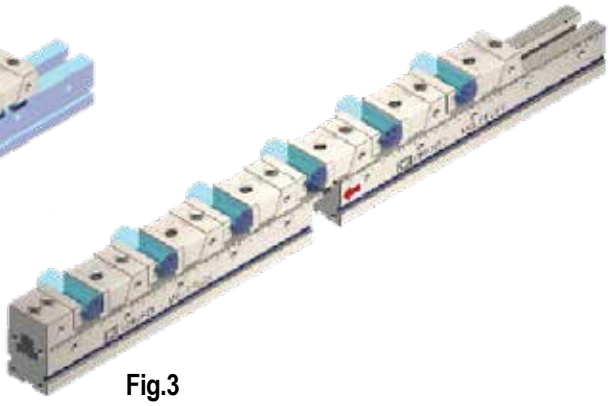


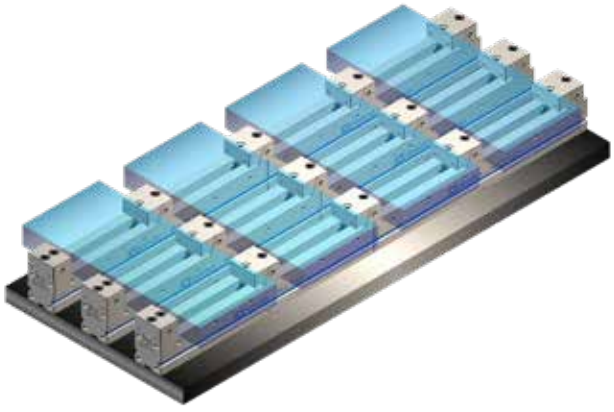
Fig.3

Possibilità di serrare più pezzi su una morsa **MULTIFLEX** (Fig.1), oppure di utilizzare 2 morse **MULTIFLEX** in linea (Fig.2) o eventualmente in linea e distanziale centrale (Fig.3)
Possibilità di serrare più pezzi su una morsa **MULTIFLEX** (Fig.1), oppure di utilizzare 2 morse **MULTIFLEX** in linea (Fig.2) o eventualmente in linea e distanziale centrale (Fig.3)

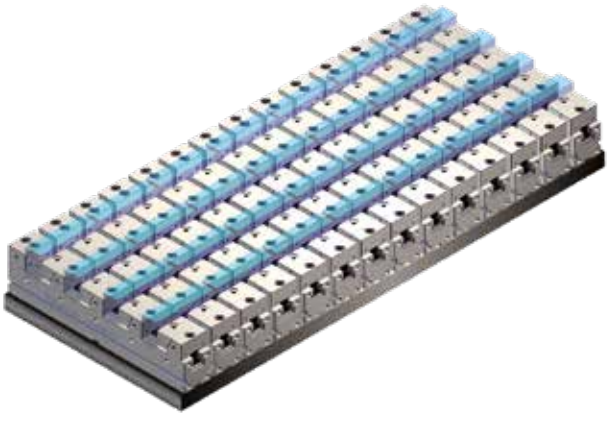
MORSE MULTIFLEX SU CENTRO DI LAVORO VERTICALE CON TAVOLA 500x1200
MORSE MULTIFLEX SU CENTRO DI LAVORO VERTICALE CON TAVOLA 500x1200

IN LINEA - IN LINEA
n.6 Morse **MULTIFLEX** Art.600 tipo 2x600,
per il serraggio di 7 pezzi di dimensioni 80x360

IN PARALLELO - IN PARALLELO
n.14 Morse **MULTIFLEX** Art.600 tipo 2x500,
per il serraggio di 14 pezzi di dimensioni 80x360



IN LINEA - IN LINEA
n.6 Morse **MULTIFLEX** Art.600 tipo 2x600,
per il serraggio di 4 pezzi di dimension 250x500



IN PARALLELO - IN PARALLELO
n.14 Morse **MULTIFLEX** Art.600 tipo 2x500,
per il serraggio di 28 pezzi di dimensioni 160x40

Type **1**&**2**

Art. 640

Type **3**x166 - **3**x266

Morsa autocentrante eccentrica
Self-centering for eccentric vise

Art.640 Montata direttamente su mandrino tornio per il serraggio di pezzi prismatici
Art.640 Assembled directly on a lathe chuck for prismatic workpieces clamping

Art.640 Montata su una tavola girevole tramite piastra di collegamento per lavorare su 5 lati del particolare
Art.640 Assembled on a rotary table through connecting plate in order to be able to machine 5 workpieces sides

Art.640 tipo 1

Esecuzione di ganasce speciali ALTE con presa solo su determinati punti "su richiesta del cliente"
Special HIGH jaws with specific clamping area "on customer request"

Art. 63

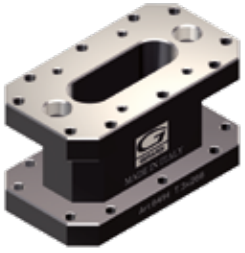
Distanziale Zero Point **Singolo**
Spacer for **Single** Zero Point

Art. 64

Distanziale Zero Point **Doppio**
Spacer for **Double** zero point

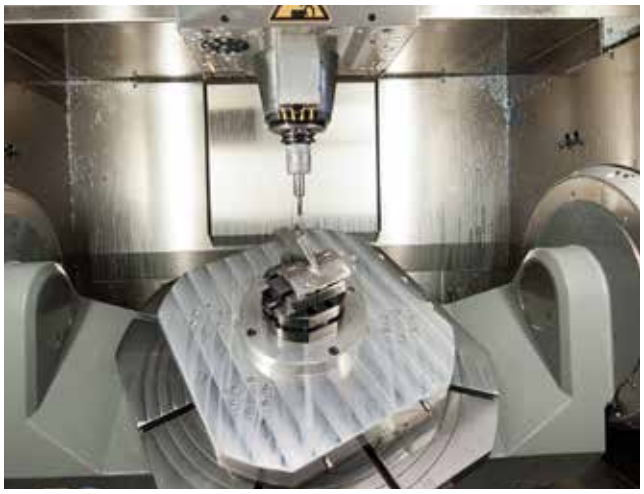
Art. 641H

Distanziale semplice per Art. 640 Tipo 1&2
Simple spacer for Art.640 **type 1&2**

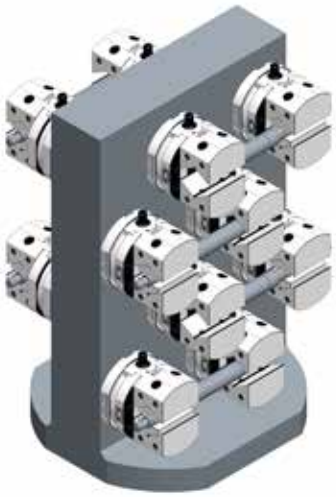


Art. 641H

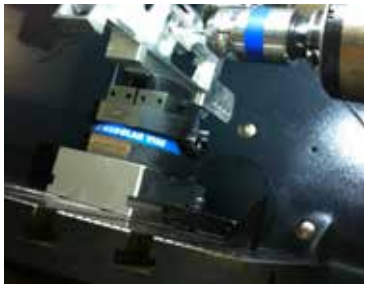
Distanziale semplice per Art. 640 Tipo 3x166 / 3x266
Simple spacer for Art.640 **type 3x166 / 3x266**



Applicazione aeronautica,
morsa Art.640 tipo 2 montata su macchina a 5 assi
Tipical Multitasking vise Art.640 type 2 application
on a 5 axis machine for aerospace workpiece



Spalla speciale in alluminio + 16 morse
Autocentranti Multitasking Art. 640J T.1 con differenti
piastre ganasce Art.655F
che variano in base al diametro dell'albero
ed al punto in cui viene serrato l'albero
2 sides special aluminum tombstone + 16pcs.
Self-Centering Multitasking Vises Art.640J T.1
with different jaw plates Art.655F which
vary according to the workpiece dia. and where it is
tightened

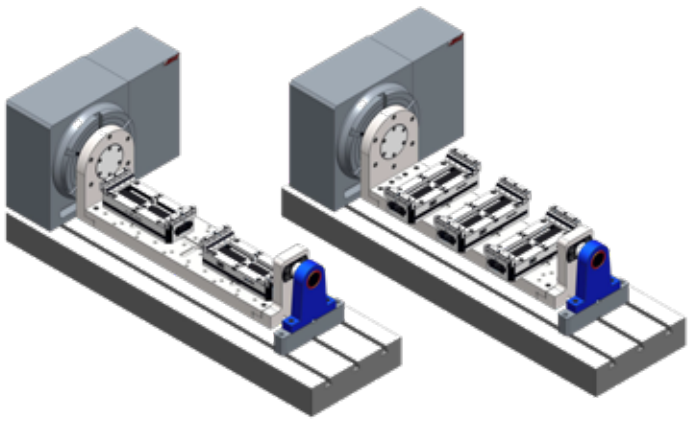


Applicazione per aeronautica Morsa Multitasking e Zero point montati su macchina DMG modello DMU 50 Ecoline
Aerospace application for Multitasking Vise and Zero Point on DMG machine DMU 50 Ecoline Model

Morsa Compact Grip montata su Kitamura Mytrynnion 4G
per la lavorazione di uno stampo nel settore plastica.
Compact Grip on Kitamura Mytrunnion-4G
For a die mould used in the plastic industry

Art. 650

Morse CompactGRIP con supporto e tavola basculante per tavola girevole HAAS HRT310
CompactGRIP vises with support and tilting table for HAAS HRT310 rotary table



Art. 670

NUOVA morsa **multitasking, GripMatic**, IDRAULICA e PNEUMATICA
NEW multitasking vise, **GripMatic** HYDRAULIC or PNEUMATIC

Esempi applicativi piastre ganasce:
Jaw plates application examples:

Art.247G piastra piana con inserti GRIP
Art.247 straight plate with GRIP inserts

Art.671B ganascia mobile lavorabile ridotta
Art.671B soft narrow movable jaws

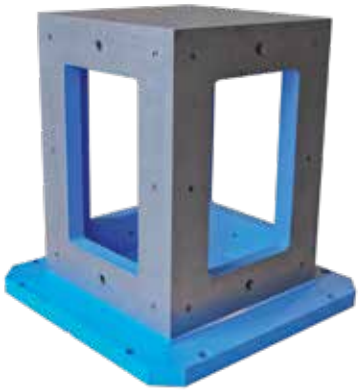
Art.671A ganascia mobile lavorabile
Art.671 soft movable jaws

Art. 53A
Sgrossato di fresa - Rough Milled

Art. 53C
Finito - Completely machined

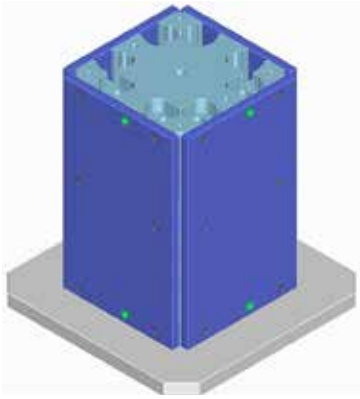
Art. 53E
Cubo a reticolo con fori calibrati e filetti integrali
Grid cube with calibrated holes and solid threads

Art. 53F
Cubo a reticolo con bussole temprate e filetti riportati in acciaio inox.
Grid cube with hardened bushings and steinless steels helicoils

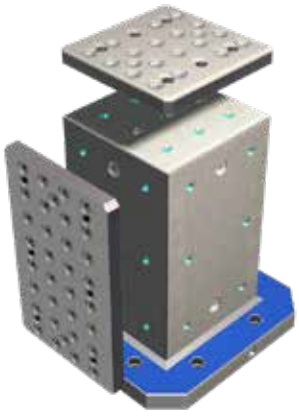


Art 53 Speciale con aperture su ogni lato per renderlo più leggero
Special Art.53 with windows to lower the weight

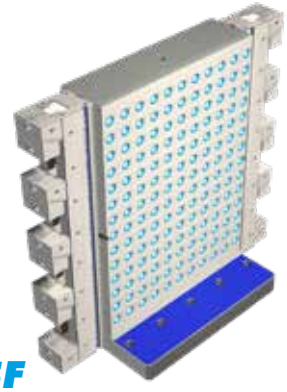
Cubo con una lato a reticolo e un lato con montati Zero Point pneumatici
Tombstone half Grid and half assembled with Pneumatic Zero Point



Cubo con piastre riportate
Cube with modular plates

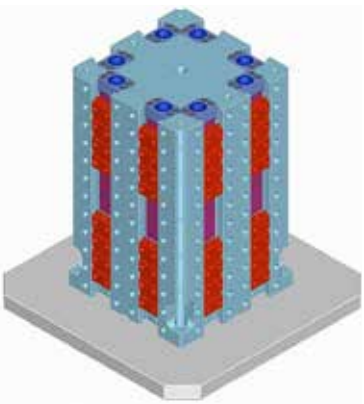


Piastra modulare con reticolo (Acciaio)
Grid modular plate (Steel Metal)

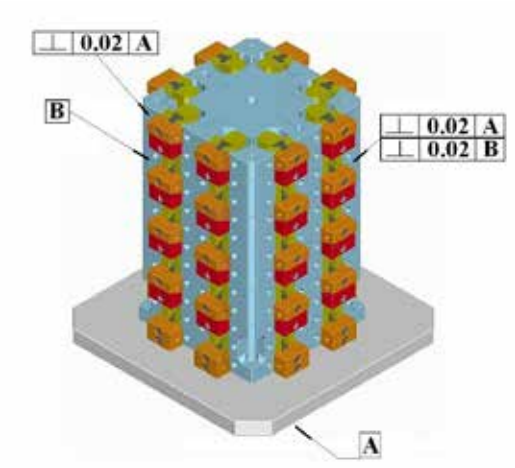


Art. 55F
Spalla con montate due morse (**MULTIFLEX Art. 600**)
Spalla con montate due morse (**MULTIFLEX Art. 600**)

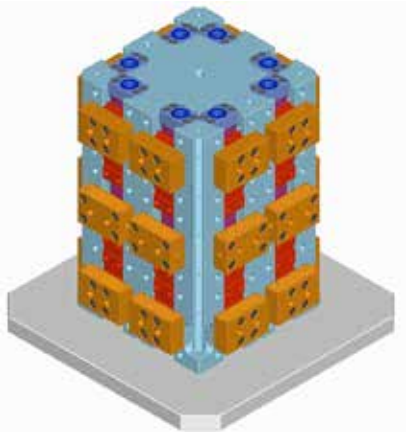
Cubo a reticolo (corpo base)
Grid cube (base body)



Cubo con morse **FMS** senza ganasce
Cube with **FMS** vises without jaws



Cubo con morse **FMS** senza ganasce
Cube with **FMS** vises without jaws



Cubo con morse **FMS** con ganasce (per 16 pezzi)
Cube with **FMS** vises with jaws (clamping 16 pcs)

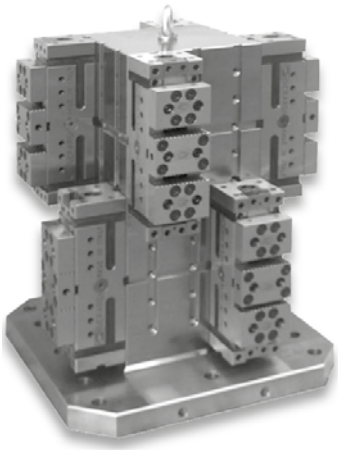
Art. 53D

Cubo per piastre riportate con montate piastre e morse **MULTIFLEX** in verticale
Tombstone with modular plates and **MULTIFLEX** vises vertically assembled

Art. 53D

Cubo per piastre riportate con montate piastre ed elementi modulari con sovraganasce
Tombstone with modular plates, fixed and movable vise sections and stack type jaws assembled

Morse **XL** doppie montate su spalla in orizzontal
XL double vises horizontally assembled
on a 2 sides tombstone

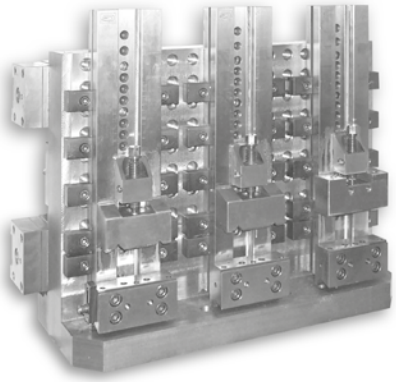


Art. 53G

Cubo con cave, con montate n° 8 doppie **FMS** in verticale
T-slot tombstone with 8 double **FMS** vises vertically mounted

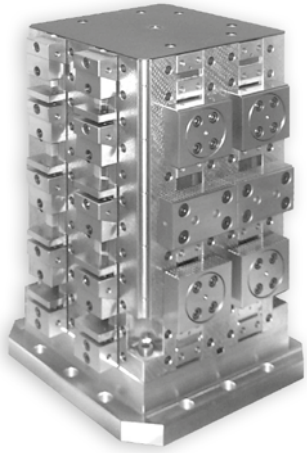
Cubo con montate morse Multiflex
Tombstone with Multiflex vises assembled

Cubo + Zero Point + Morsa Std Art 1
Tombstone + Zero Point + Art 1 Std Vise



Morse **STD** montate verticalmente
STD *vises vertically assembled*

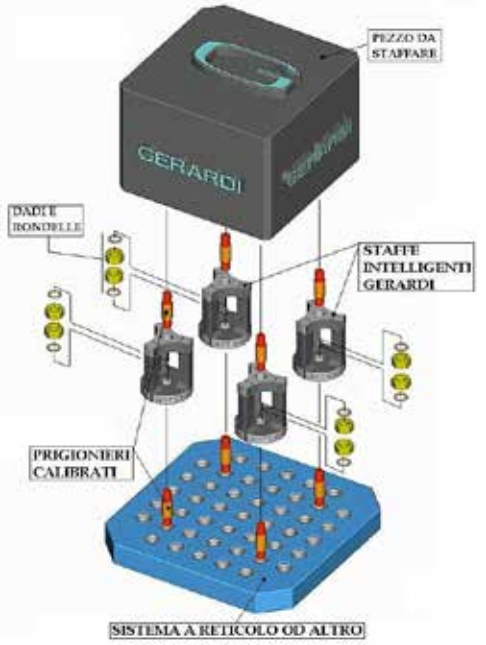
Morse **FMS** montate orizzontalmente
FMS *vises horizontally mounted*

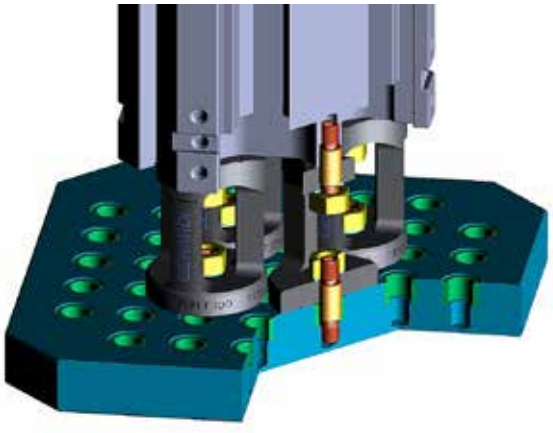


Sistema modulare multiplo
Multi-modular System

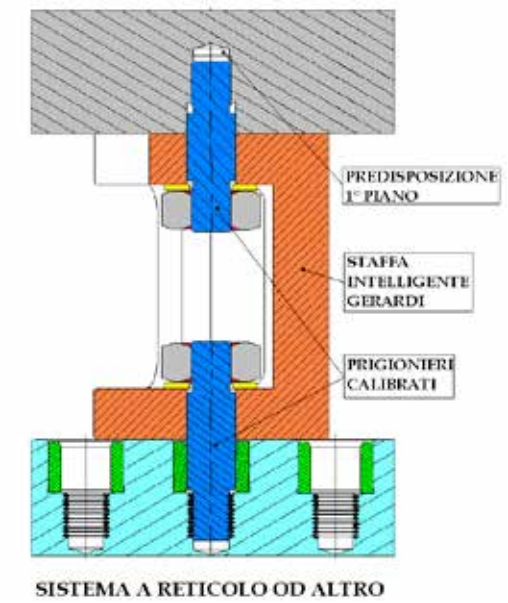
Art. 55
Staffa intelligente - Intelligent clamp

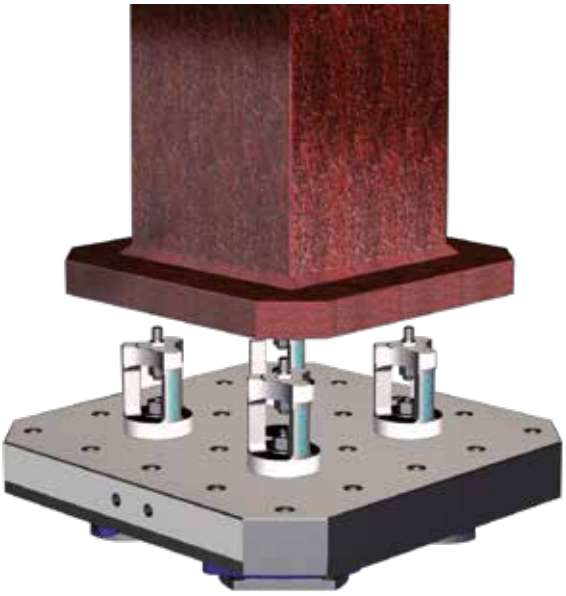
Esempio di lavorazione con staffe intelligenti
Application example with intelligent clamps



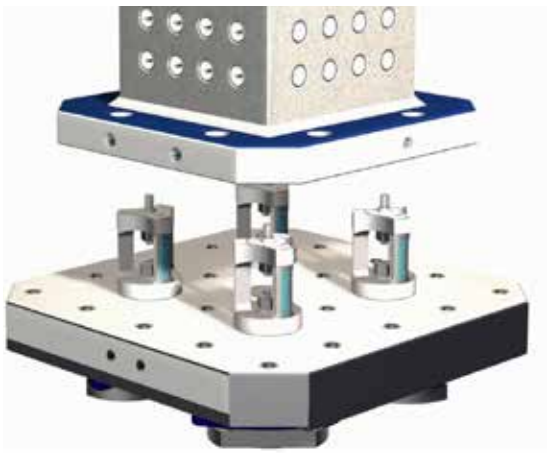


Sezione staffa intelligente
Intelligent clamp section

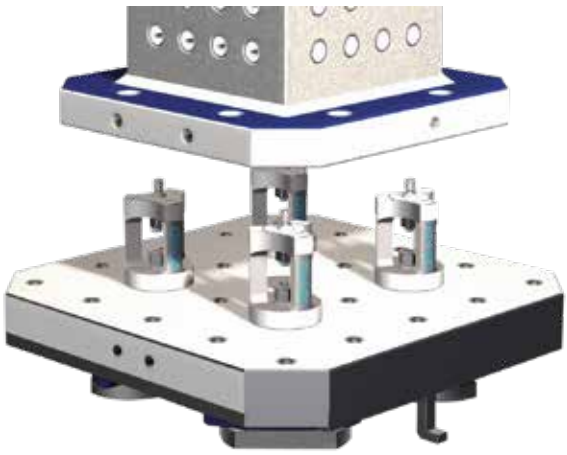




Fusione cubo montata su staffe intelligenti
Cast iron cast cube mounted on intelligent clamps



Cubo a reticolo montato su staffe intelligenti
Grid cube mounted on intelligent clamps



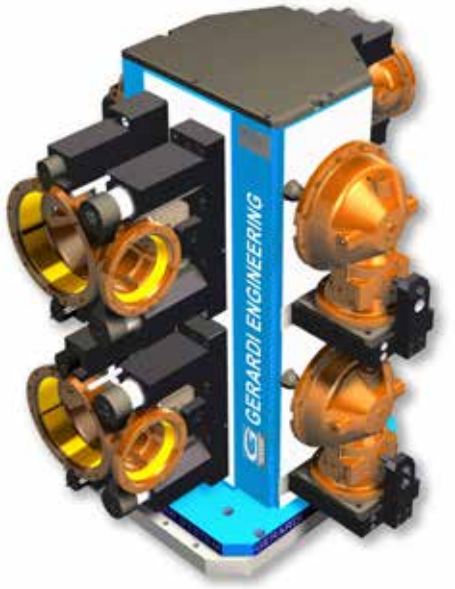
Cubo a reticolo montato su staffe intelligenti
Grid cube mounted on intelligent clamps

Morsa **STD** montata su Double zero point system
STD vise mounted on Double zero point system

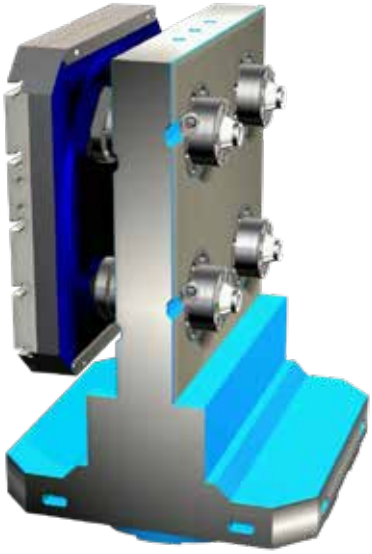
Cubo a reticolo montato su Double zero point system
Grid cube on Double zero point system

Cubo con mandrini Double Zero Point System integrati
Tombstone with double zero point system integrated

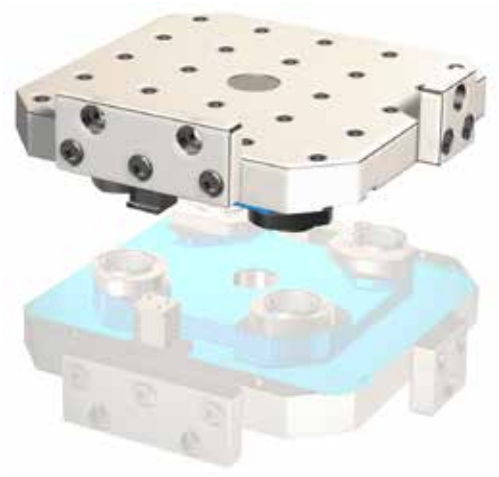
Spalla monoblocco con pallet macchina
Solid 2 sides tombstone with machine pallet



Sistema di staffaggio automatico personalizzato
Taylor made automatic clamping system

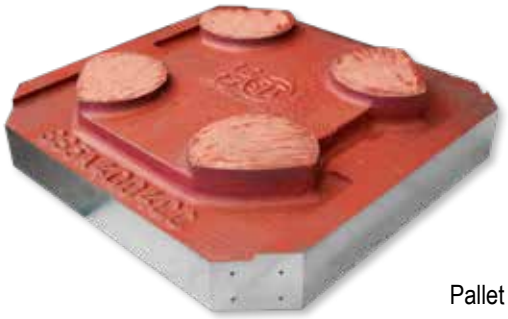


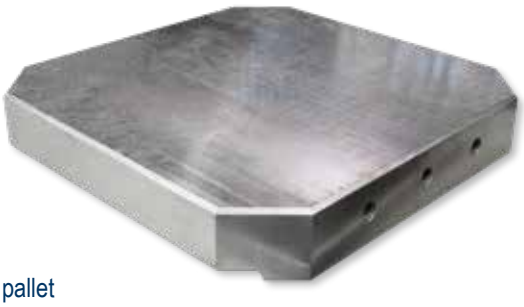
Attrezzatura speciale integrale con pallet macchina per lavorazione in un unica ripresa di pallets
Special tombstone integral with machine pallet for machining plates in one set up only



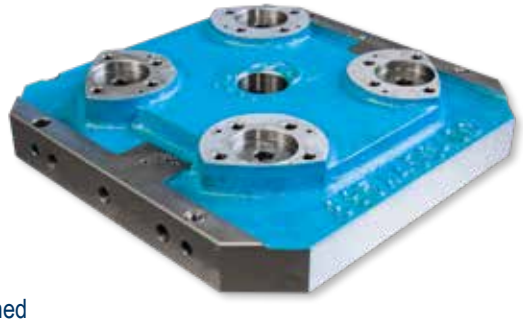
Pallet a reticolo con fori integrali M16
Grid pallet type with the solid threads M16

Art. 86
Pallet con cave a "T" H7
Pallet with "T" H7 slot



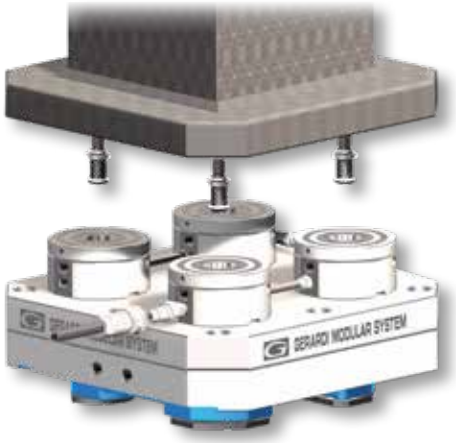


■ Fase **1** / Step **1**
Pallet semi lavorato - Semifinished machine pallet



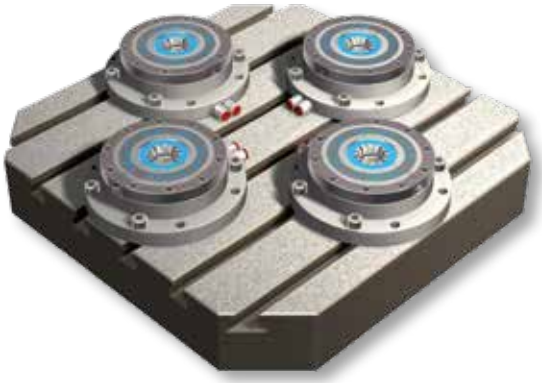
■ Fase **2** / Step **2**
Pallet finito completamente lavorato
Machine pallet finished completely machined

■ Fase **3** / Step **3**
Pallet finito completo di tiranti, bussole e distanziali
Finished pallet complete with pull studs, bushings and spacers



Esempio di applicazione
Example application

Esempio di applicazione
Example application



Esempio di applicazione
Example application

Esempio di applicazione
Example application

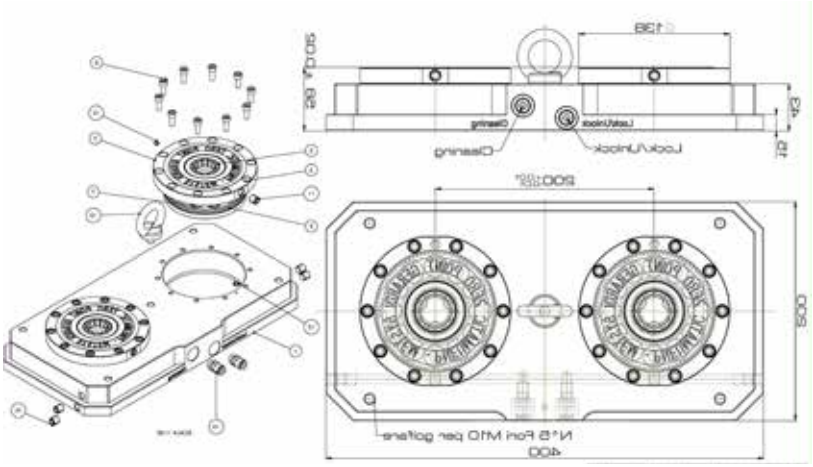
Art. 662
Montaggio indipendente
Independent mounting

Art. 663
Montaggio incassato
Built-in mounting

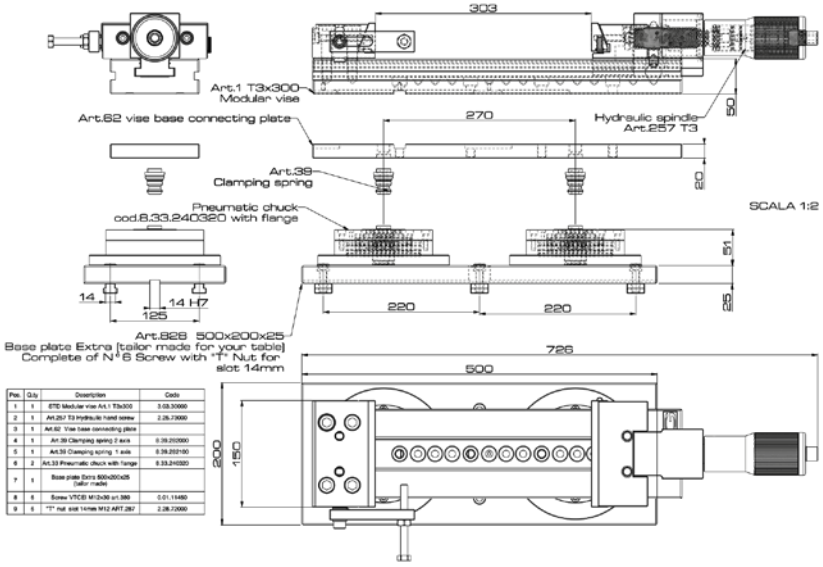
Art. 664
Montaggio con flangia
Mounting with flange

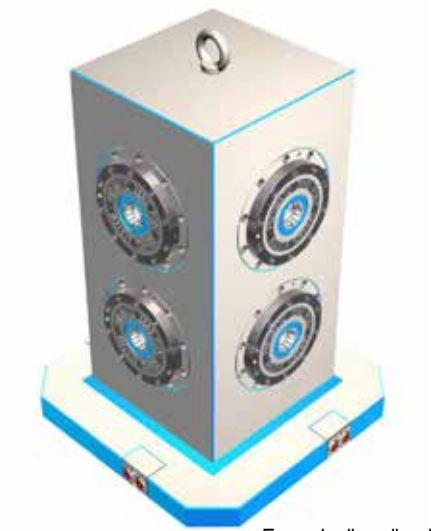
Art. 665
Montaggio incassato
Built-in mounting

Esempio di applicazione
Example application



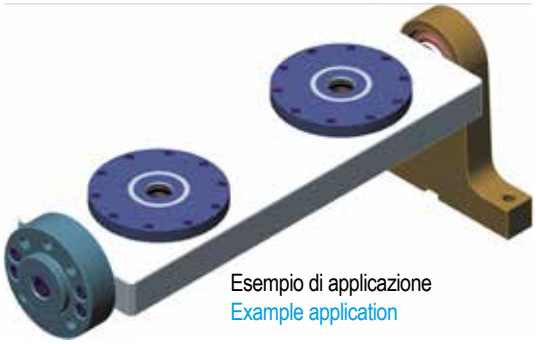
Esempio di applicazione
Example application



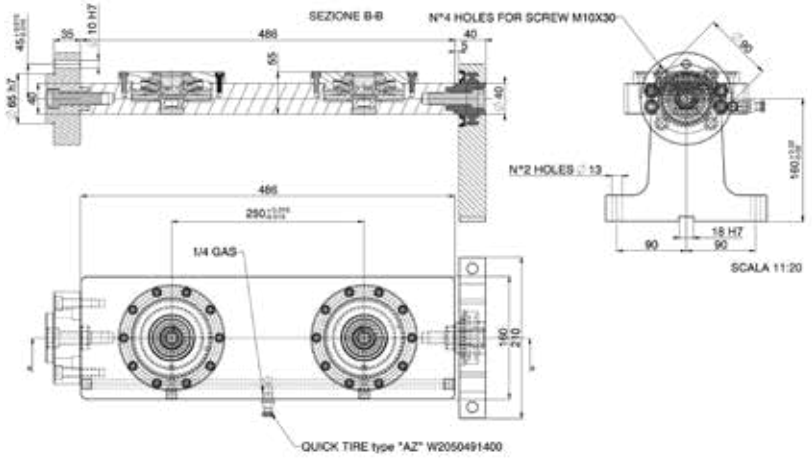


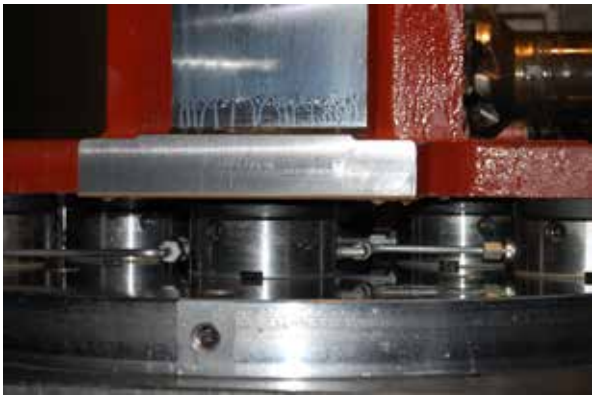
Esempio di applicazione
Example application

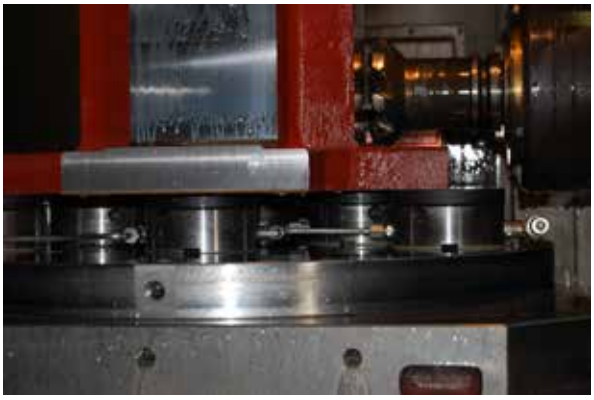
Cubo reticolo con sistema Zero point
Grid Tombstone with Zero point plate

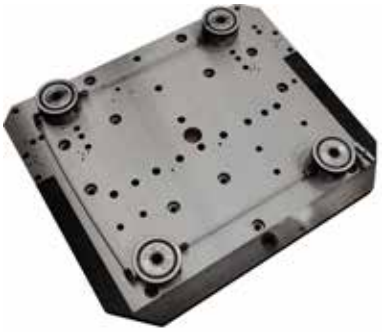


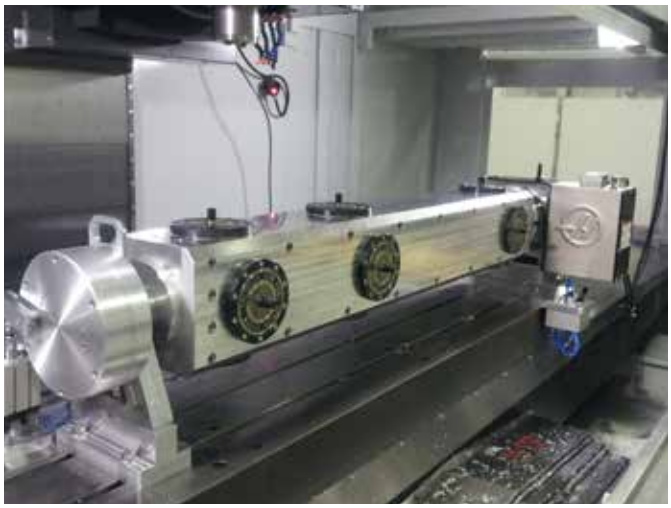
Esempio di applicazione
Example application

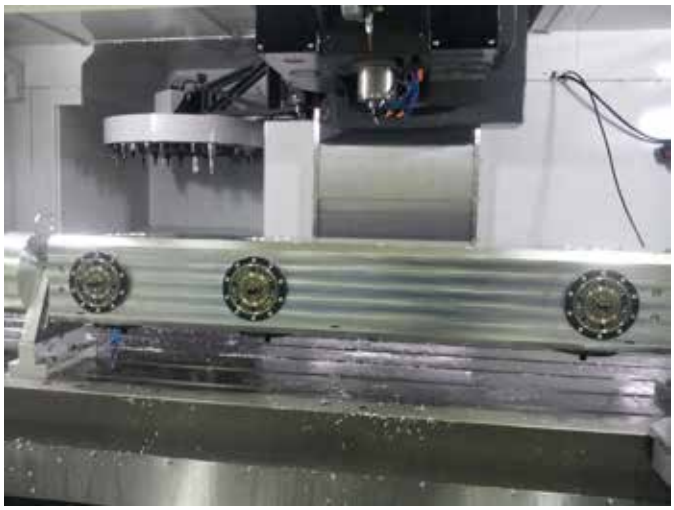






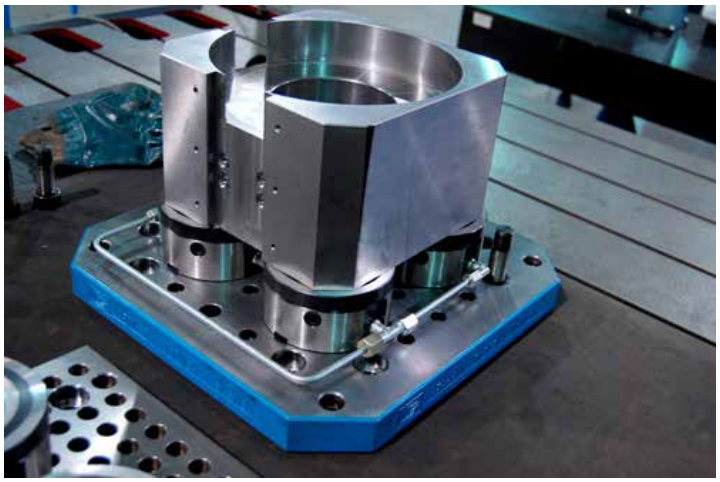


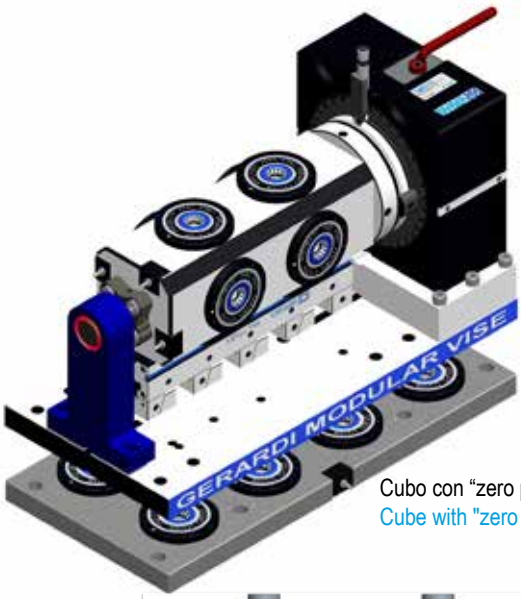




Special aluminum zero point fixture on Haas machine and rotary table
Attrezzatura speciale con zero point applicata su tavola girevole e macchina Haas

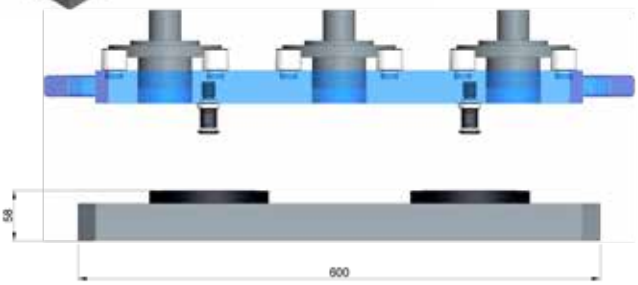
Piastre zero-point per cambio rapito attrezzature/particolari aereonautici su diverse tipologie di macchine
Zero-point plates for aeronautic workpieces or fixtures on different type of machines

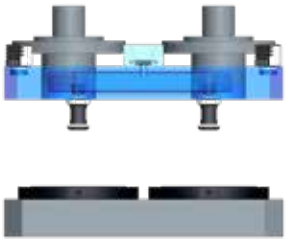


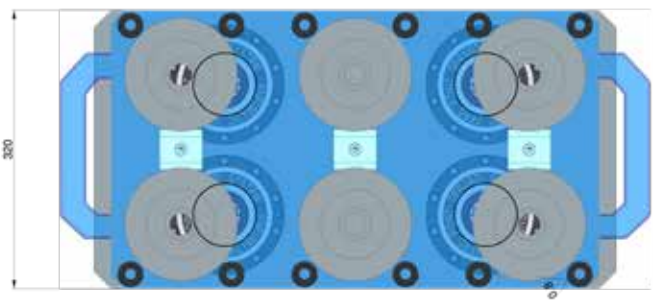


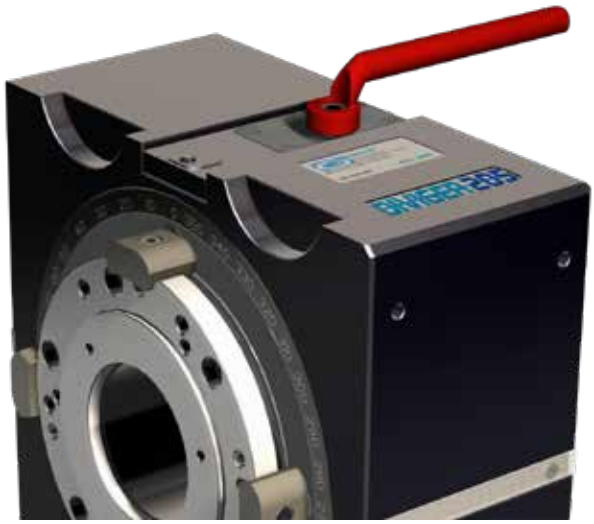
Cubo con “zero point” su divinger
Cube with "zero point" on diviger

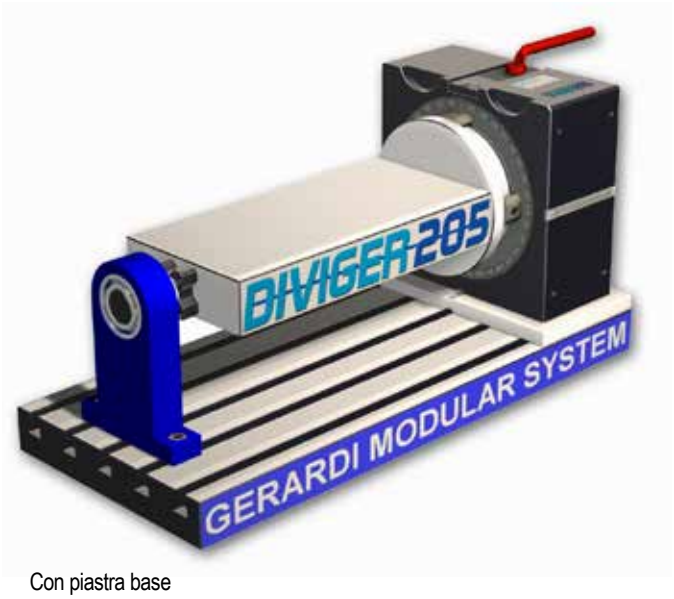
Morse multiplex su piastre “zero point”
Multiflex vises on "zero point" plate



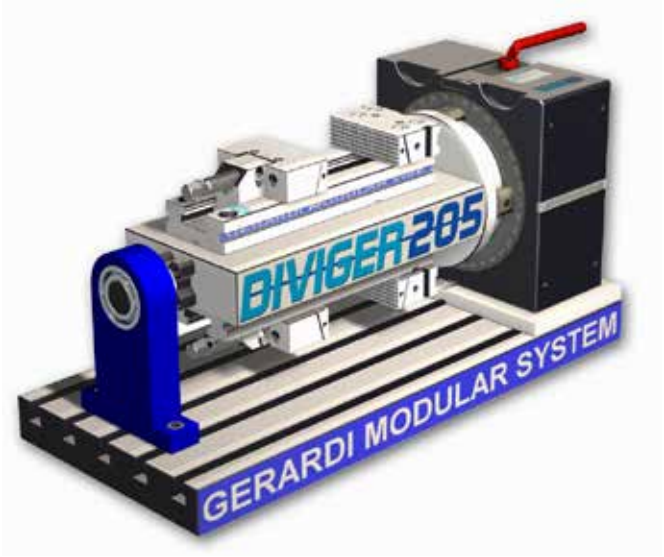




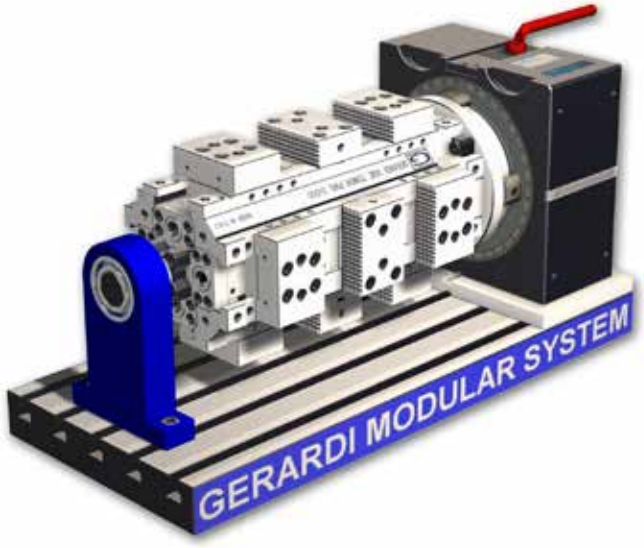




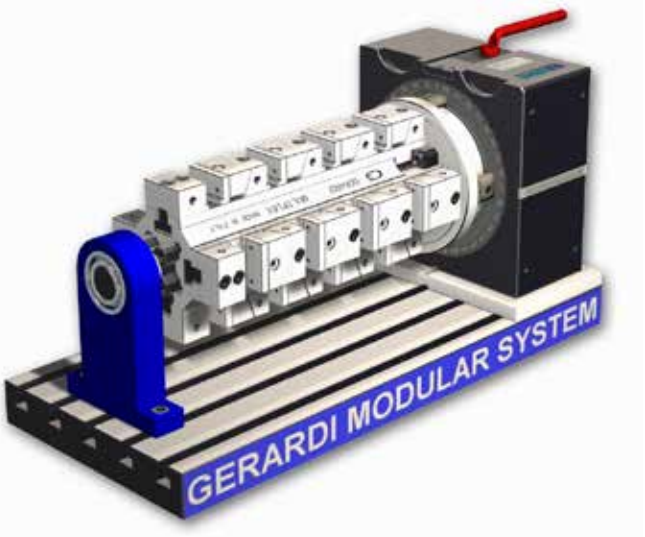
Con piastra base
With base plate



Con morse **StandardFLEX**
With **StandardFLEX** vises

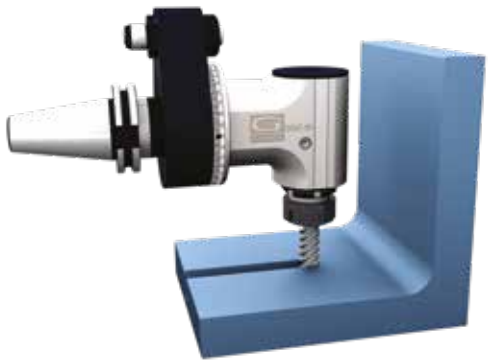


Con cubo integrale **FMS**
With solid **FMS** vise cube

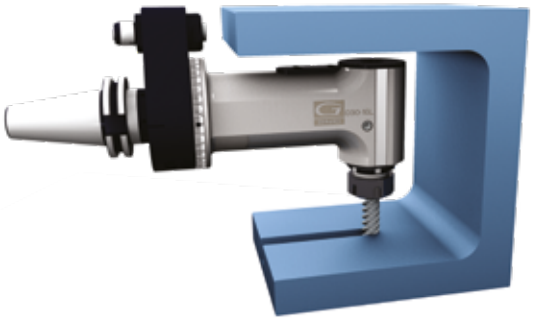


Con cubo integrale **MULTIFLEX**
With solid **MULTIFLEX** vise cube

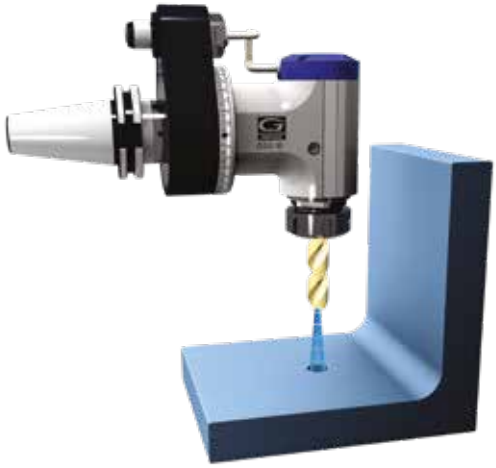
Art 640
Montata su una tavola girevole tramite piastra di collegamento per lavorare su 5 lati del particolare
With self-centering eccentric vise in order to machine 5 workpiece sides



Serie G90 - G90 series
Ideali per Fresatura, Foratura, Maschiatura a ±90
Ideal for milling, drilling, tapping at ±90

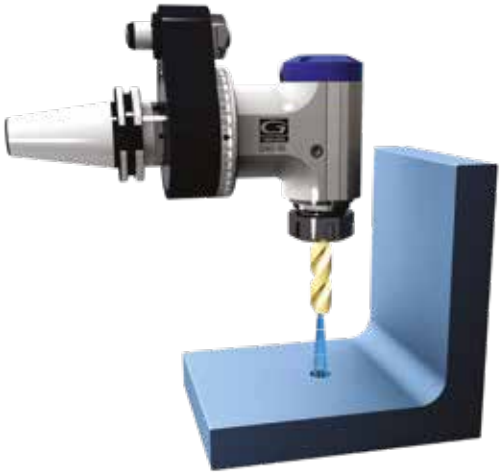


Serie G90L - G90L series
Serie lunga per lavorazioni in profondità
Long series for machining at deep positions



Serie G90-B - G90-B series
Con passaggio refrigerante dal perno, uscita utensile 10BAR
With coolant input from positioning Pin and output through the tool

Serie GMU - GMU series
Uscita utensile ad angolo variabile ±90° per forature, maschiature e fresature inclinate
Adjustable output at ±90° for tilt drilling, milling and tapping



Serie G90RI - G90RI Series
La serie di teste angolari con passaggio refrigerante dal mandrino, uscita utensile 40bar
With coolant input from positioning Pin and output through the tool at 40bar

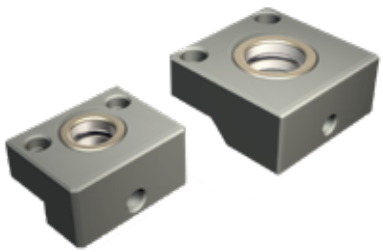
Serie G90 2U - G90 2U Series
La serie di teste angolari ideali per fresature, forature e maschiature attraverso 2 mandrini contrapposti di 180°
Angle Heads series for milling drilling and tapping through 2 opposite outputs

Serie G90 - G90 Series
La serie ideale per fresature, forature e maschiature a ±90°
The ideal series for milling, drilling and tappint at ±90°

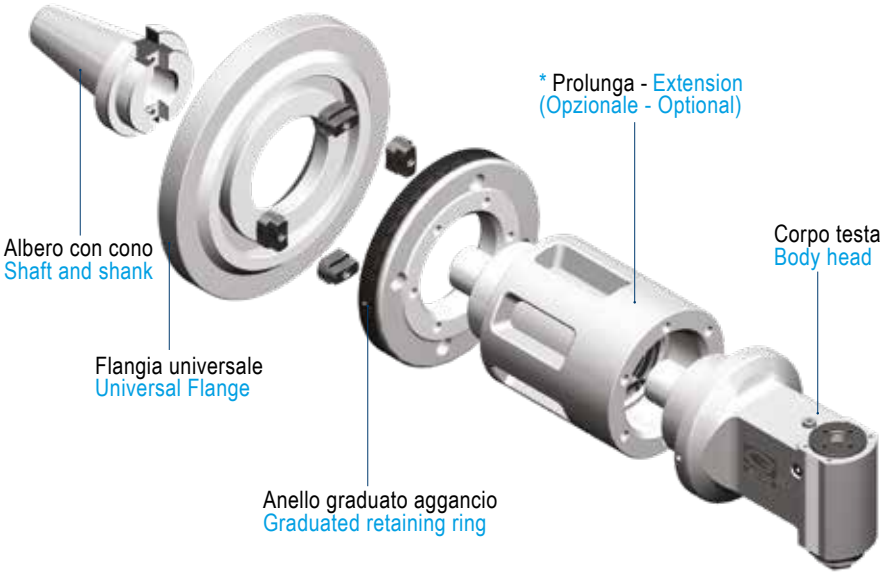
Serie G90L - G90L Series
La serie di teste angolari lunghe per lavorazioni più in profondità
Long angle head series for machining at deep positions

Serie GMU - GMU Series
La serie di teste angolari con angolazione regolabile da 0 a 90°
Angle heads series with adjustable angle from 0 to 90°

Serie GMU Series - GMU Series
Uscita utensile regolabile da 0 a 360°
Tool output adjustable on 360° with free positioning



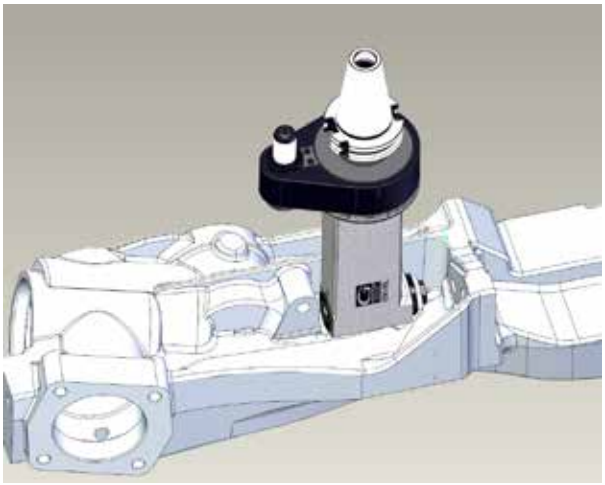
Stop Block Haas con predisposizione
per il passaggio refrigerante
Haas Stop Block with internal coolant set-up

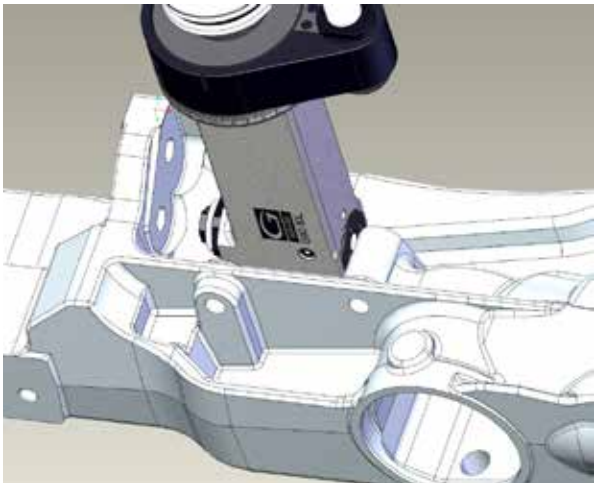


Testa Angolare G90-S40B con uscita HSK40 e passaggio refrigerante interno a 40bar
Angle Head G90-S40B with HSK40 output and 40bar internal coolant throught the tool

G90-20 - TRIBLOCK

G90-10L Studio lavorazione all'interno di una tasca.
G90-10L Work study inside a cover.

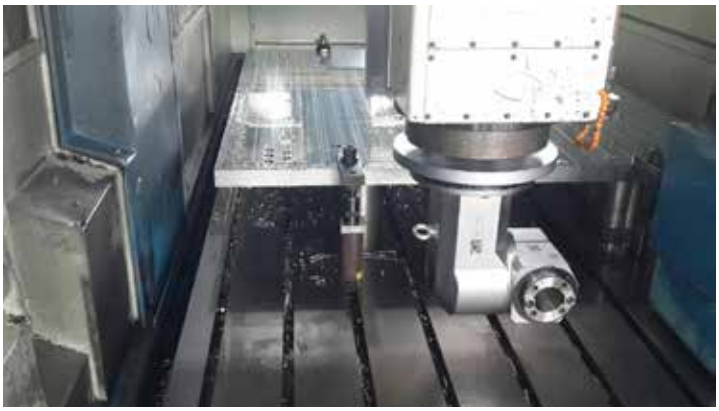




Applicazione speciale G90-10 su robot FANUC
Special application G90-10 on FANUC robot

Testa Angolare G90-S40XL con passaggio refrigerante interno
Angle Head G90-S40XL with internal cooland

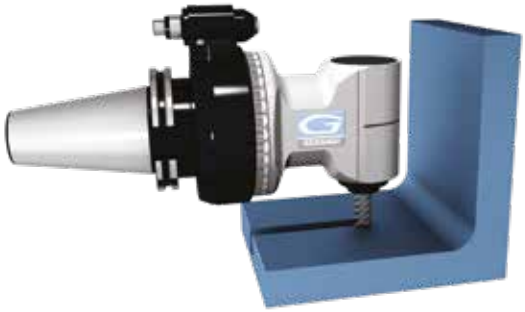
Testa Angolare G90-S40 XL 700
Angle Head G90-S40 XL 700



GMU S50 su Fresatrice a Portale - GMU S50 on gantry milling machine.

Serie SLIM - SLIM series

Ideali per Microlavorazioni in spazi ristretti.
Ideal for Micromachining in narrow spaces

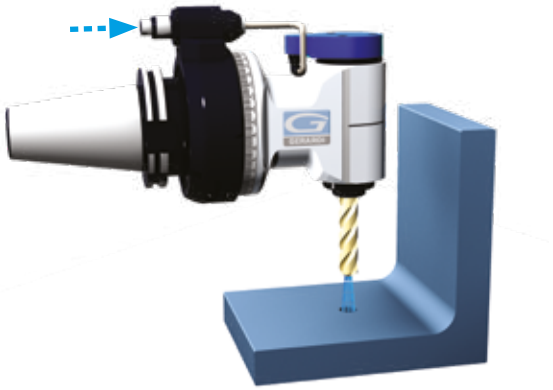


Serie F90 - F90 series

Ideali per Fresatura, Foratura, Maschiatura a ±90
Ideal for milling, drilling, tapping at ±90

Serie F90L - F90L series

Serie lunga per lavorazioni in profondità
Long series for machining at deep positions

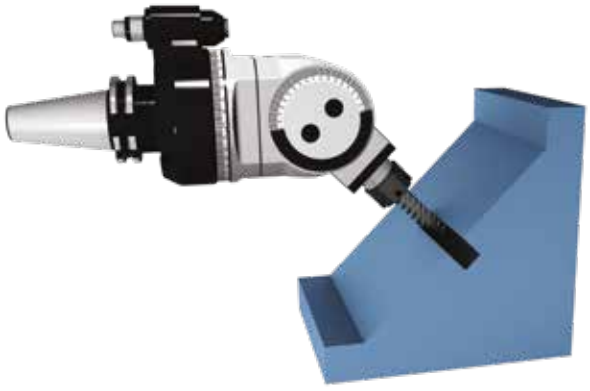


Serie F90 10BAR - F90 10BAR series

Con passaggio refrigerante dal perno, uscita utensile 10BAR
With coolant input from positioning Pin and output through the tool

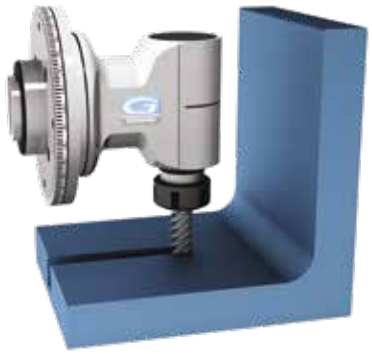
Serie FR90 - FR90 series

Testa angolare disassata per lavorazioni in spazi ristretti con passaggio refrigerante dal cono, uscita utensile 70BAR
Offset series for machining in narrow spaces with coolant input directly from machine spindle and output through the tool at 70 BAR

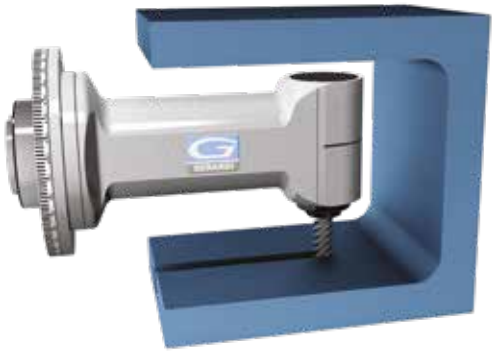


Serie FMU - Serie FMU

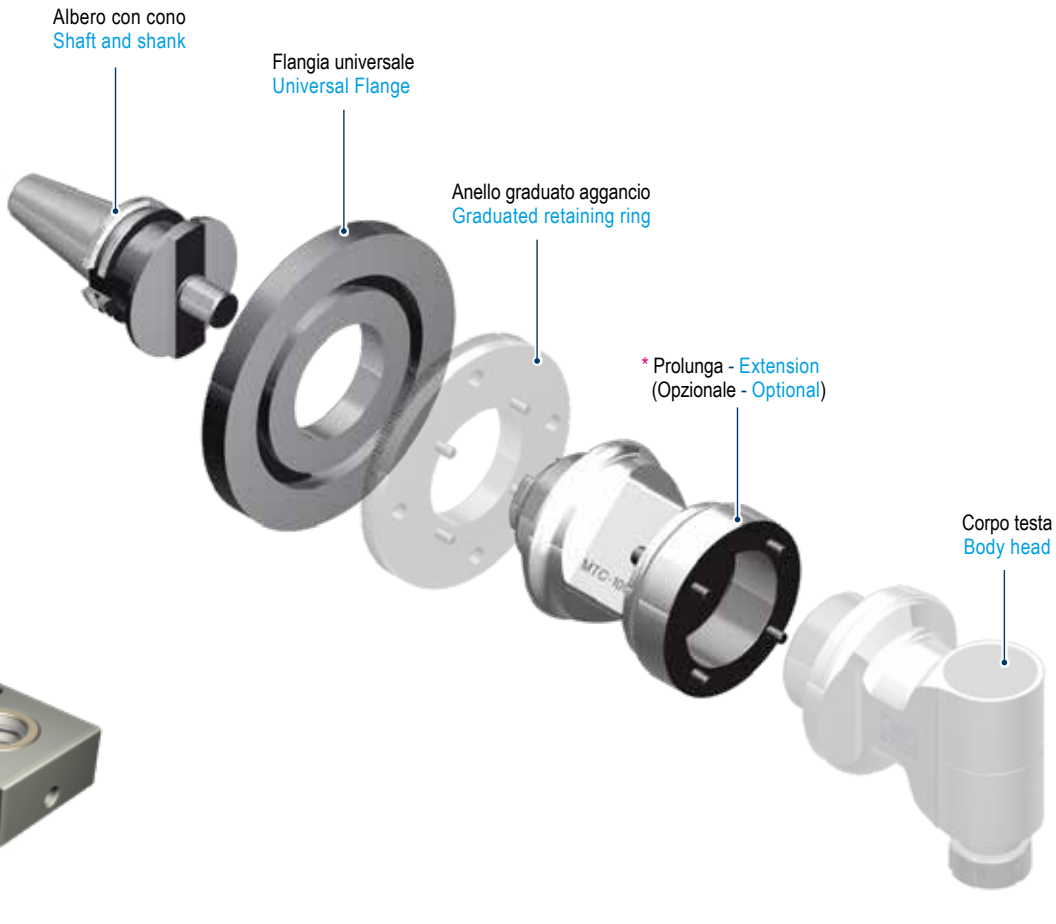
Uscita utensile ad angolo variabile ±90° per forature, maschiature e fresature inclinate
Adjustable output at ±90° for tilt drilling, milling and tapping

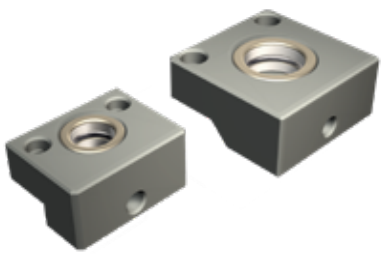


Serie F90 - F90 Series
La serie ideale per fresature, forature e maschiature a ±90°
The ideal series for milling, drilling and tappint at ±90°



Serie G90L - G90L Series
La serie di teste angolari lunghe per lavorazioni più in profondità
Long angle head series for machining at deep positions





Stop Block Haas con predisposizione
per il passaggio refrigerante
Haas Stop Block with internal coolant set-up

Applicazione speciale su robot FANUC testa doppia uscita
Special application angle head double output on FANUC robot

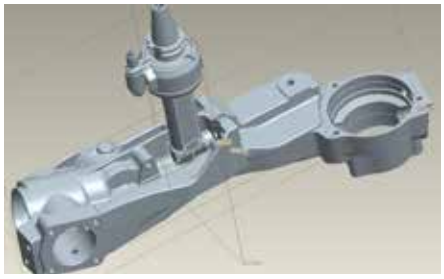
Testa ad angolo speciale per lavorazione corpo motore.
Special angle head suitable for boring internal part.

Lavorazione con testa F90 S40 con porta fresa a disco su corpo motore.

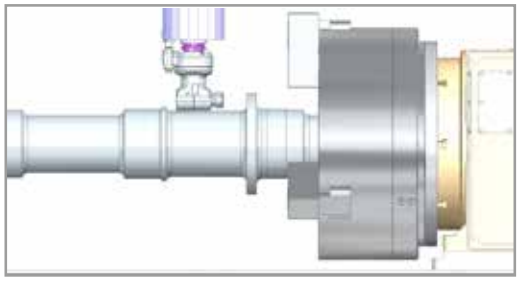
FS90-03 - TRIBLOCK - Teste con attacco per macchine CHIRON fz22l and fz18k
Angle head for CHIRON fz22l and fz18k

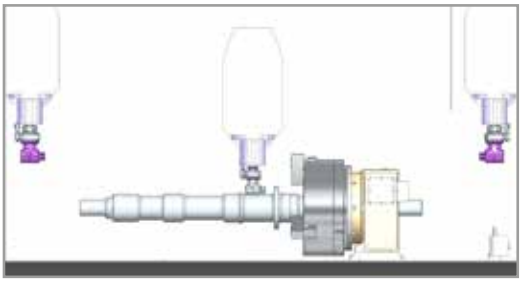
Testa angolare con sistema antirotante **TRIBLOCK**
Angle head with TRIBLOCK antirotation system

Testa Angolare **F90-S40 70-bar** con gruppo antirotante speciale per OKUMA 800VH
Angle Head F90-S40 70-bar with special anti rotation group for OKUMA 800VH



Verifiche utilizzo teste angolari effettuate con sistema cad cam
Checks of the application of the angular heads made with cad cam system



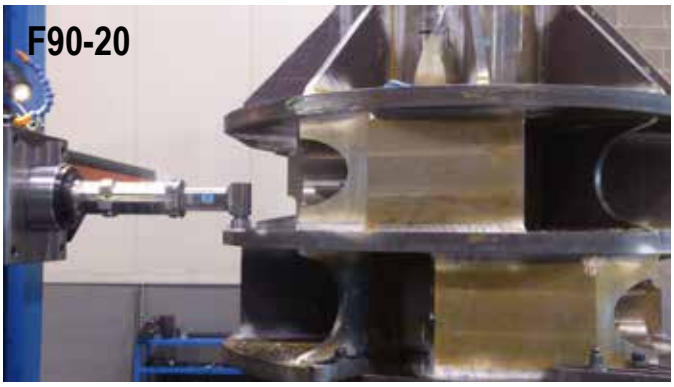


Testa angolare per applicazioni su macchine Dainichi
Angle head for application on Dainichi-machine

F90-10L uscita Weldon 10 su centro di lav. OKK
F90-10L Weldon 10 exit on a OKK machine tool

Stop block fissato sul madrino grazie ad uno SPECIALE Distanziale tra mandrino macchina e stop block
Stop block fixed on the machine spindle thank to a SPECIAL Spacer between the machine spindle and the stop block

Esempi applicativi di teste orientabili
Application examples of anjustable angle head

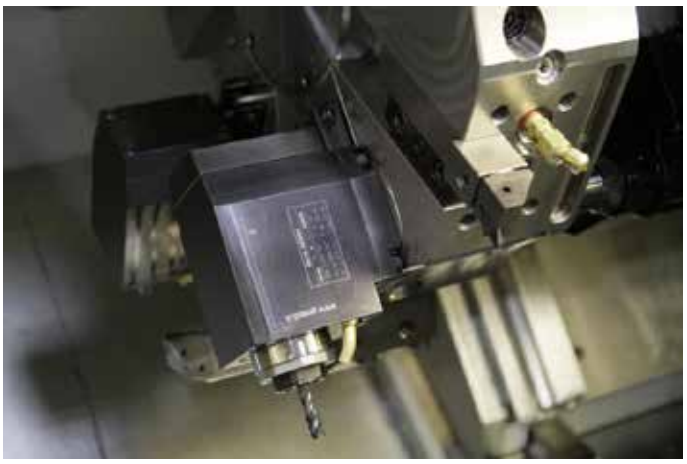


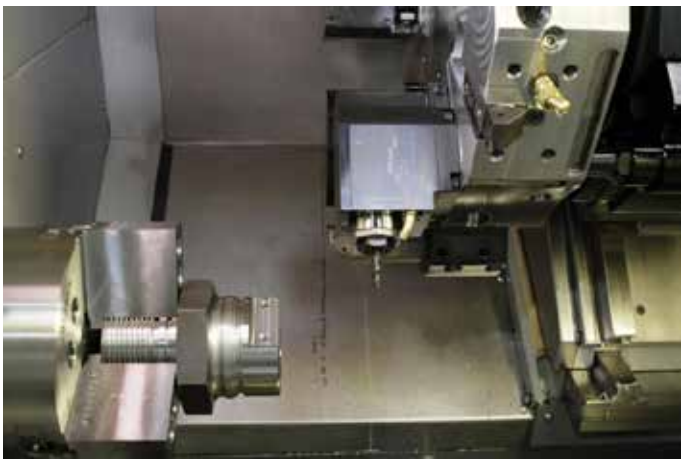
Applicazione di testa angolare Evolution
MTC F90-16 / F90-20 con 2 prolunghe su centro orizzontale

Application of Evolution Angle heads
F90-16 / F90-20 MTC with Extensions on horizontal machining center.


Haas
Doosan
Mazak


VDI





Macchina Haas ST20Y equipaggiata con motorizzati Gerardi
Haas ST20Y machine with Gerardi drivent tools equipment

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