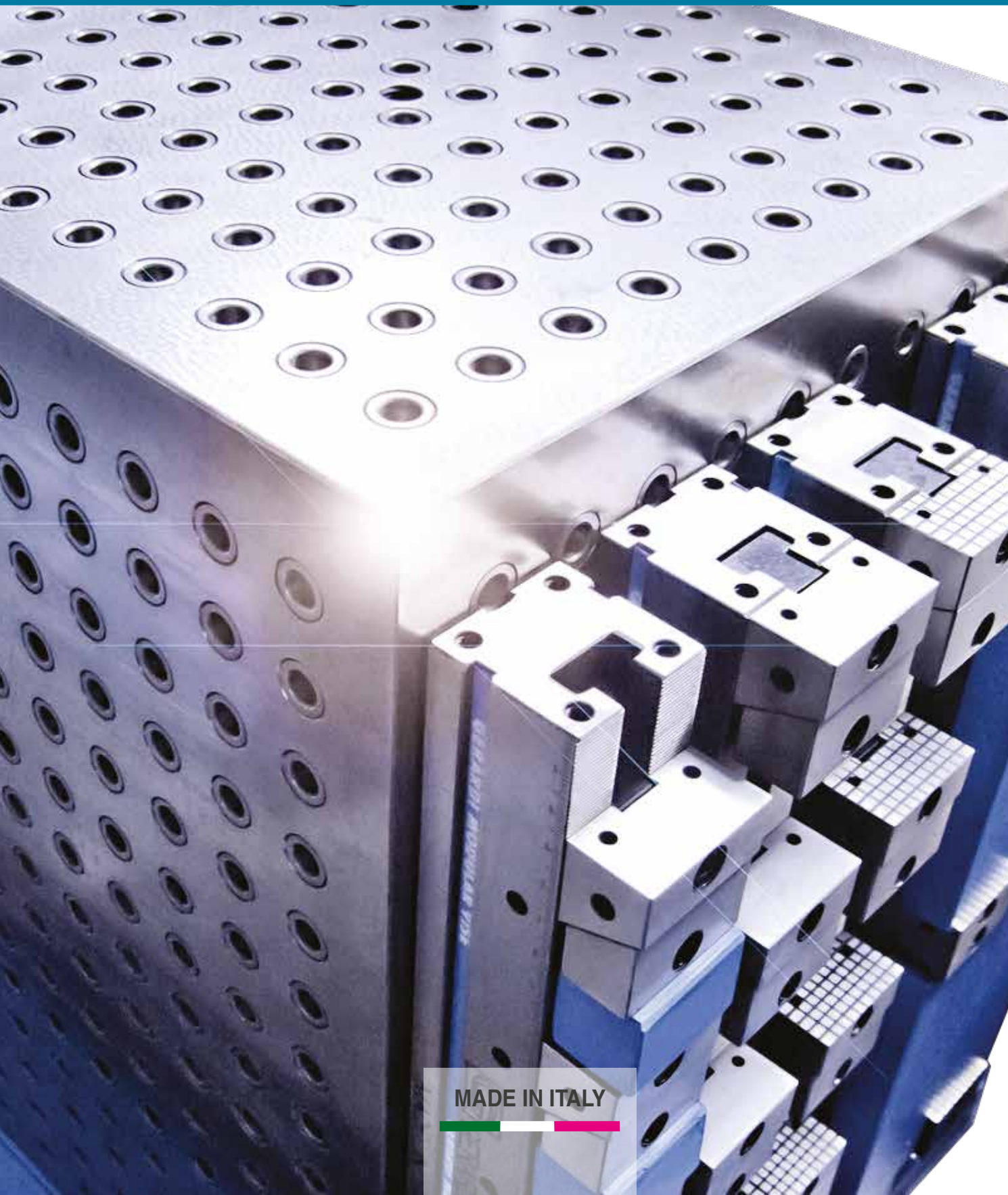


**PORTAPEZZI - CUBI, SPALLE, SQUADRE, PIASTRE, PALLETS
TOMBSTONES - CUBES, ANGLE PLATES, PLATES**



MADE IN ITALY



INDICE - INDEX

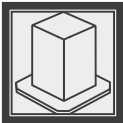
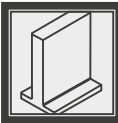
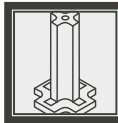
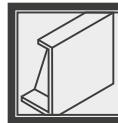
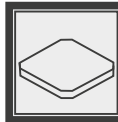
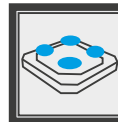
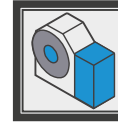
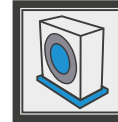
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[illegible]



SIMBOLOGIA DATI TECNICI TECHNICAL DATA ICONS

MODELLI PORTAPEZZI TOMBSTONE MODELS						
			Cubi Cubes	Spalle 2 Sides tombstones	Cubi a croce Cross cubes	Squadre Angles
PIASTRE E PALLET PLATES AND PALLET						
					Piastre e sovravole Plates & Interfaced plates	Pallet Pallet
POSSIBILITÀ DI POSSIBILITY OF						
			Posizionamento cambio rapido Quick change & positioning	Cubi-morsa Vise tower	Divisore Automatico Automatic dividing head	Divisore Meccanico Mechanical dividing head
PAGINE PAGES						
					Accessori & Ricambi Accessories & Spare Parts	Istruzioni corretto utilizzo Instruction for a proper use

PORTAPEZZI MODULARI PER CENTRI DI LAVORO ORIZZONTALI HORIZONTAL MACHINING CENTRES MODULAR TOMBSTONE

A supporto ed integrazione dei sistemi di bloccaggio la **GERARDI** ha progettato e via via sviluppato una gamma di portapezzi in fusioni **monoblocco di ghisa G30** (con pareti spessore 43-45mm circa e con doppio trattamento di distensione e stabilizzazione) e recentemente anche di **alluminio speciale ad alta resistenza**. Tali prodotti possono essere forniti nelle forme di: **Cubi, Spalle, Squadre, Piastre, Mensole e speciali a richiesta**.

Come **lavorazioni e finiture** vengono proposte le seguenti:

- **Versione A** - **Fusioni monoblocco - Sgrossati di fresa**
- **Versione B** - **Fusioni sgrossate con sovrametallo e base finita**
- **Versione C** - **Completamente finiti. Tolleranza entro $\pm 0,02$ mm**
- **Versione E** - **Con reticolo di fori calibrati e filetti interni integrali**
- **Versione F** - **Con reticolo di bussole temprate 100Cr6 e filetti riportati in acciaio inox**

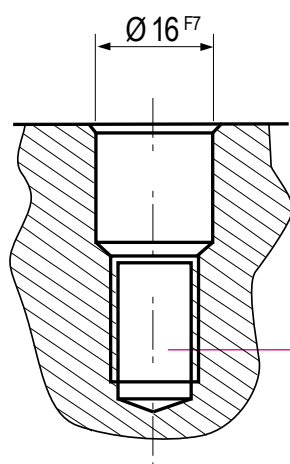
L'importanza sempre maggiore di questi prodotti deriva dallo sviluppo e diffusione di centri di lavoro orizzontali e sistemi pallettizzati che richiedono appunto tali strutture di supporto per le attrezzature o per i pezzi da lavorare stessi. I controlli vengono eseguiti con macchine tridimensionali su ogni pezzo eseguito. Soluzioni speciali e personalizzate integrate con sistemi di bloccaggio adeguati possono essere studiate e realizzate su richiesta per sfruttare al meglio il campo di lavoro e le capacità delle macchine.

To support and complete the **Gerardi Modular Workholding System** a more and more strategic and important role is played by all the range of modular tombstones and sub-plates. They are manufactured in the most different shapes and versions, anyway always provided in one **solid cast iron cast G30** with walls about 40 mm thickness and with double stress relieving heat treatment. Recently in **high resistance aluminum**. The shapes available are: **Cubes, Two side tombstone, Angles, Plates and subplates, Shelves and special on specific request**.

As **finishing** following are available:

- **A type** - **One solid cast iron. Rough milled**
- **B type** - **Rough milled casting with overall material and base finished**
- **C type** - **Completely finished with tolerance of $\pm 0,02$ mm**
- **E type** - **Grid tombstone with calibrated holes and solid threads**
- **F type** - **Grid tombstone with hardened bushings 100 Cr6 and inox steel helicoils**

The greater importance of such products originates from the development and widespread of Horizontal machining centres and multipallet systems which require just such structures to support the fixtures or work-pieces. The checking is carried out piece by piece on a 3-dimensional machine. Specific or tailor-made tombstones complete with clamping systems applications could be studied and manufactured on request in order to better exploit the machines runs and capacity.



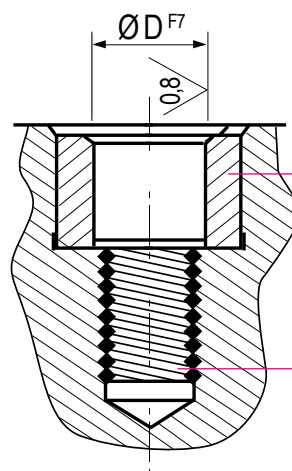
VERSIONE E

Reticolo integrale nella fusione

E TYPE

Holes and threads made in the casting itself

M12



VERSIONE F

Bussole di centraggio in acciaio temprato 100Cr6 - DIN 179C

F TYPE

Centering bushings are in special hardened alloy steel 100Cr6 - DIN 179C

Filetto riportato in acciaio inox 18/8
Inserted threads are in 18/8 stainless steel

Qualsiasi modifica, lavorazione o personalizzazione extra sarà eseguita previo preventivo. Per le versioni speciali pagamento 50% all'ordine. Il ns. ufficio tecnico è a Vs. disposizione per eventuali chiarimenti e consegne.

Any special requirement will be quoted "Extra" for special type payment 50% on order. Our technical department is always available for any explanations or delivery time.

I PORTAPEZZI GERARDI SONO DISPONIBILI IN 5 VERSIONI DIVERSE GERARDI TOMBSTONES ARE AVAILABLE IN 5 DIFFERENT FINISHING

VERSIONE A

SGROSSATI DI FRESA*

Fusione in ghisa G30 monoblocco sgrossata con doppio trattamento di distensione.
Pareti spessore 43-45 mm (Sovrametallò 10 mm)

*Alcuni modelli indicati non vengono sgrossati

A TYPE

ROUGH MILLED*

One integral G30 cast iron casting rough milled with doubles stress relieving heat treatment.
Wall thickness 43-45 mm (10 mm stock)

*Few highlighted items are not rough milled



VERSIONE B

BASE FINITA

Fusione sgrossata con base lavorata e raschiata per pallet a norme Europee o Giapponesi. Predisposizione della base di appoggio di n. 4 fori Ø20F7 e filetto M16 (Fig.1) con interassi precisi, pronte per l'utilizzo dei ns. Zero point (Fig. 2 e 3), oppure per l'interfacciamento con altri pallet o piastre.

B TYPE

BASE FINISHED

Rough milled casting with base face machined and hand scraped for direct clamping on European or Japanese standard pallet.
Base with 4 precision holes Ø 20F7 and bottom threads M16 with precise pitch dimensions (Pic. 1) for the use of our Zero Point (Pic. 2 and 3) or to interface with other pallets or head plates



VERSIONE C

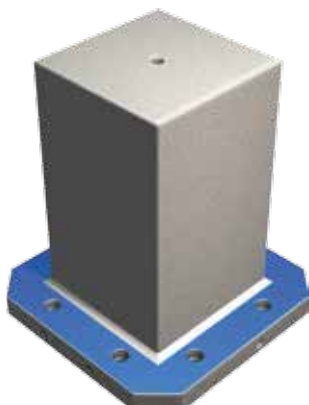
COMPLETAMENTE LAVORATI

Cubo completamente finito con pareti spessore 38-40 mm circa. Tolleranza $\pm 0,02$ mm

C TYPE

COMPLETELY MACHINED

Cube completely finished with wall thickness roughly 38-40 mm Tolerance $\pm 0,02$ mm



VERSIONE E

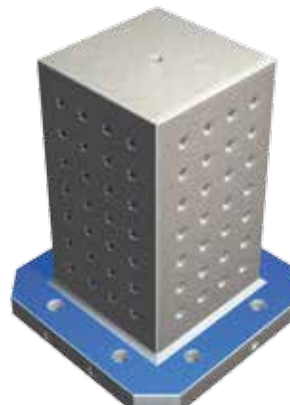
RETICOLO INTEGRALE

Cubo a reticolo con fori calibrati e filetti integrali. Tolleranza $\pm 0,02$ mm

E TYPE

GRIND CUBE

Integral cube with calibrated holes and solid threads. Tolerance $\pm 0,02$ mm



VERSIONE F

RETICOLO CON BUSSE

Cubo a reticolo con busse temprate 100 Cr6 e filetti riportati in acciaio inox. Tolleranza 0,02 mm

F TYPE

GRIND CUBE WITH BUSHINGS

Integral cube with hardened bushings 100Cr6 and stainless steel helicoils. Tolerance $\pm 0,02$ mm



Ø 20 F7 - M16



FIGURA 1

Vedi dettaglio Fig. 1, pag. 8.5

FIGURE 1

See particular Pic. 1, pag 8.5

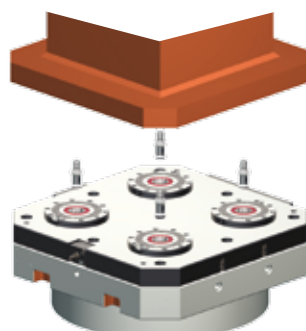
FIGURA 2

FIGURE 2



FIGURA 3

FIGURE 3



PER UN RISULTATO DI QUALITÀ E PRECISIONE IL NOSTRO CICLO DI LAVORAZIONE PORTAPEZZI È IL SEGUENTE
FOR A BETTER PRECISION AND QUALITY RESULT OUR WORKING CYCLE FOR WORKHOLDING TOMBSTONE IS THE FOLLOWING:

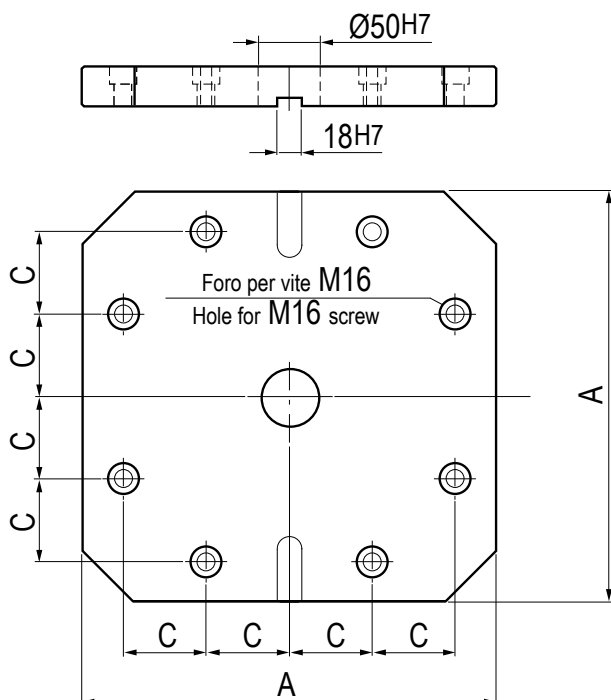
- 1° Fusione monoblocco in ghisa G30
- 2° Doppio trattamento termico di distensione
- 3° Lavorazione completa di fresatura e predisposizione per nostro sistema zero point
- 4° Distensione naturale di riposo minimo 48 ore
- 5° Raschiatura base d'appoggio per una planarità perfetta.
- 6° Lavorazione completa di finitura
- 7° Esecuzione di fori o cave di posizionamento e centraggio portapezzo sulla base d'appoggio raschiata
- 8° Controllo dimensionale portapezzo
- 9° Eventuale ritocco tramite raschiatura per riportare il portapezzo nella perpendicolarità, ortogonalità e parallelismo previsti.
- 10° Identificazione tramite numero di matricola inciso sul portapezzo con allegato certificato di collaudo.

- 1° Integral cast iron G30 casting
- 2° Double stress relieving heat treatment
- 3° Complete rough milling work and prearranged work for the use of our Zero Point Gerardi system
- 4° Natural 48 hours stress relieving
- 5° Hand scraping of bottom base face for a perfect planarity
- 6° Complete machine finishing
- 7° Base face tailor-made, tombstone centered on the hand scrape base plate
- 8° Dimensional control and quality check
- 9° Some hand-scraped could be made in order to get a perfect - parallelism - ortogonality and perpendicularity within the quoted tolerances.
- 10° Part identification engraved on the product with inspection sheet included.

INTERFACCIAMENTO STANDARD STANDARD INTERFACE

STANDARD EUROPEO EUROPEAN STANDARD

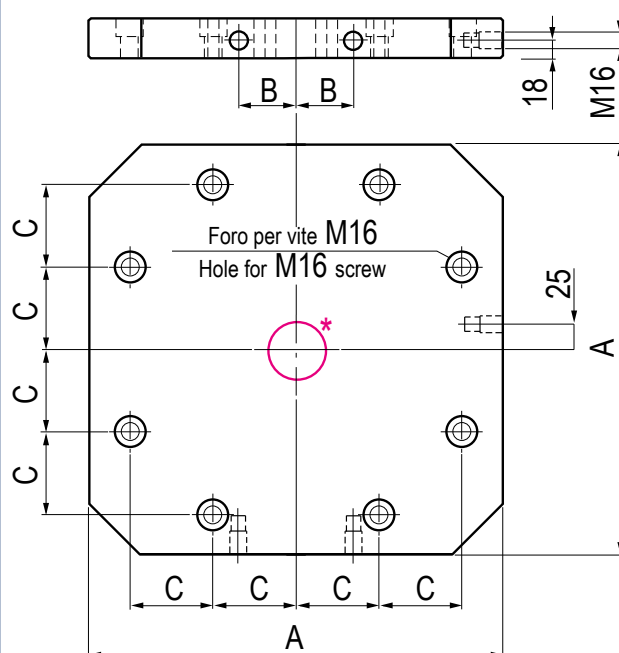
A	400	500	630	800
C	80	100	125	160



STANDARD GIAPPONESE (Normativa JIS) JAPANESE STANDARD (Normative JIS)

A	400	500	630	800
B	55	75	100	135
C	80	100	125	160

Foro centrale (OPZIONE)* - Central hole (OPTIONAL)*



SUGGERIMENTI SU COME LAVORARE I PORTAPEZZI, TRAMITE ZERO POINT
SUGGESTIONS HOW TO MACHINE TOMBSTONES WITH ZERO POINT

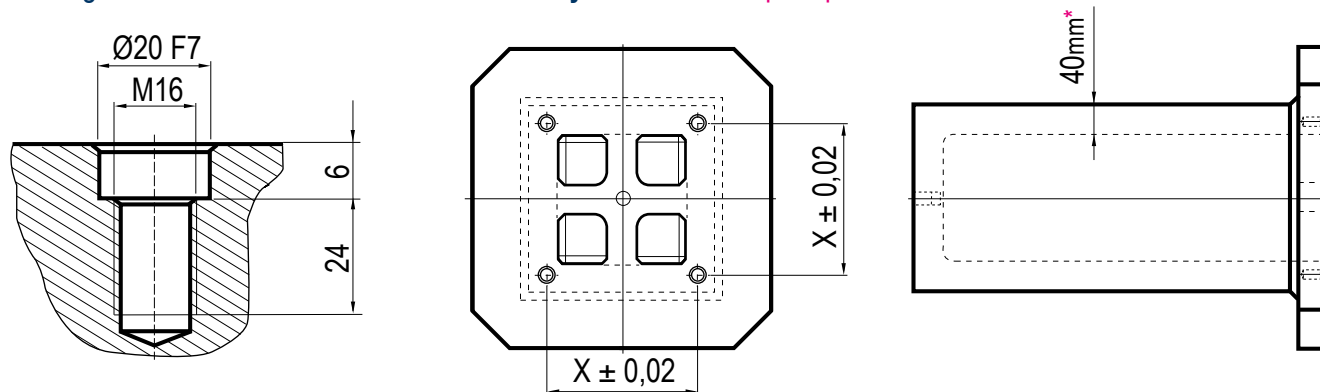
Tutti i ns. portapezzi (escluso la fusione grezza), sono predisposti, sulla base di appoggio con forature e filettature per l'uso dei tiranti Zero-Point Art. 11A T.2. Questo principalmente significa che tutti i ns. portapezzi possono essere velocemente fissati, posizionati e lavorati sulle 5 facce senza nessun impedimento per quanto riguarda il percorso utensili.

All our tombstone fixture (rough cast iron casting escluded) are pre-worked and prepared on the bottom base face for our Zero-Point pull-stud Art. 11A T.2.

This important feature will give you many possible application.

Esempio di predisposizione per l'uso dei ns. **"Zero Point System"** su cubo portapezzi

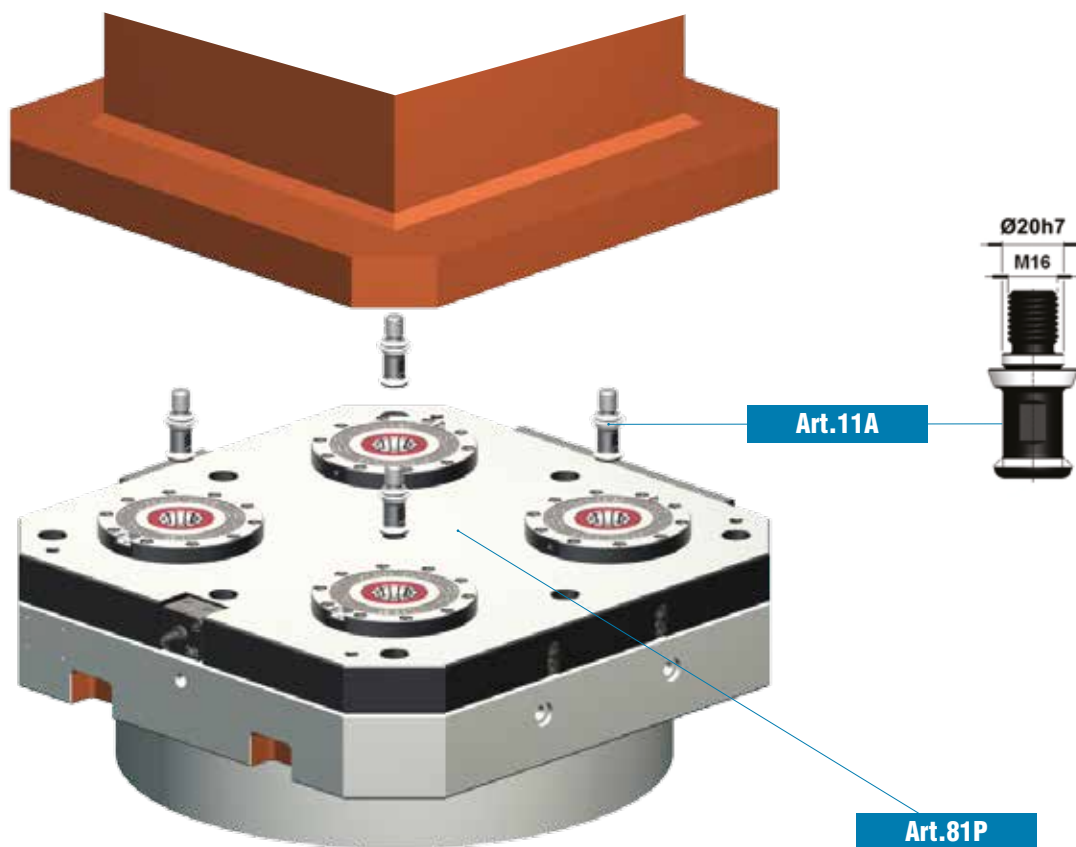
Prearranged work for the use of our **"Zero Point System"** su cubo portapezzi



*Sulle superfici grezze aggiungere 5mm

*Add 5mm on the rough surfaces

Fig. 1 Pic. 1



Per montaggio, posizionamento e ancoraggio istantaneo con necessità di collegamento pneumatico solo per lo sbloccaggio.

Il bloccaggio è meccanico tramite molle. Con questo sistema il pallet può tranquillamente essere movimentato senza l'ausilio di collegamenti elettrici, elettronici, idraulici o pneumatici.

Quick clamping and accurate positioning set up of your tombstone through pneumatic source (only for unclamping - clamping is mechanically maintained by springs) With this system your pallet could easily travel without the need of electrical pneumatic or electronic connection.

Fig. 2 Pic. 2

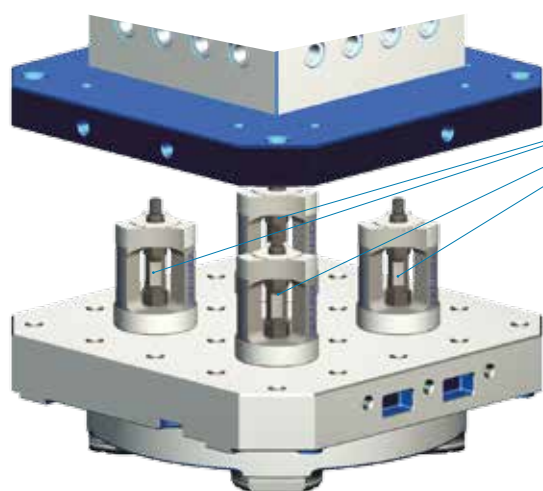
SUGGERIMENTI SU COME LAVORARE I PORTAPEZZI SUGGESTIONS HOW TO MACHINE TOMBSTONES

Gli **"Zero Point Gerardi"** sono utilizzabili anche per ottimizzare le corse del Vs. centro orizzontale sollevando il pezzo all'altezza desiderata senza l'ausilio di sovratavole.

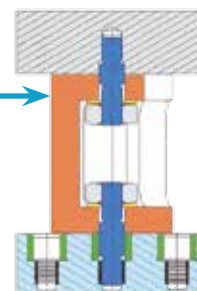
Our hydraulic or pneumatic **"Zero Point Gerardi"** are also used to optimize the vertical travel of your horizontal machining center without the need of extra over pallet plates.



SUGGERIMENTI SU COME LAVORARE I PORTAPEZZI TRAMITE STAFFE INTELLIGENTI SUGGESTIONS HOW TO MACHINE TOMBSTONES WITH INTELLIGENT CLAMP USE



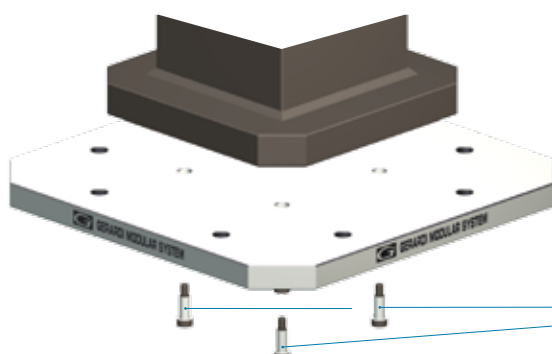
Montaggio manuale
con l'uso delle
staffe intelligenti Art. 100
Manual mounting with
use of intelligent holding
clamps Art. 100



Art. 100

I fori di predisposizione (Fig.1- pag. 8.5) possono essere usati anche per l'utilizzo di "staffe intelligenti" Art.100 e relativi prigionieri.

The pre-work holes (Pic.1- pag. 8.5) are also coming handy for the use of our "intelligent clamps" Art. 100

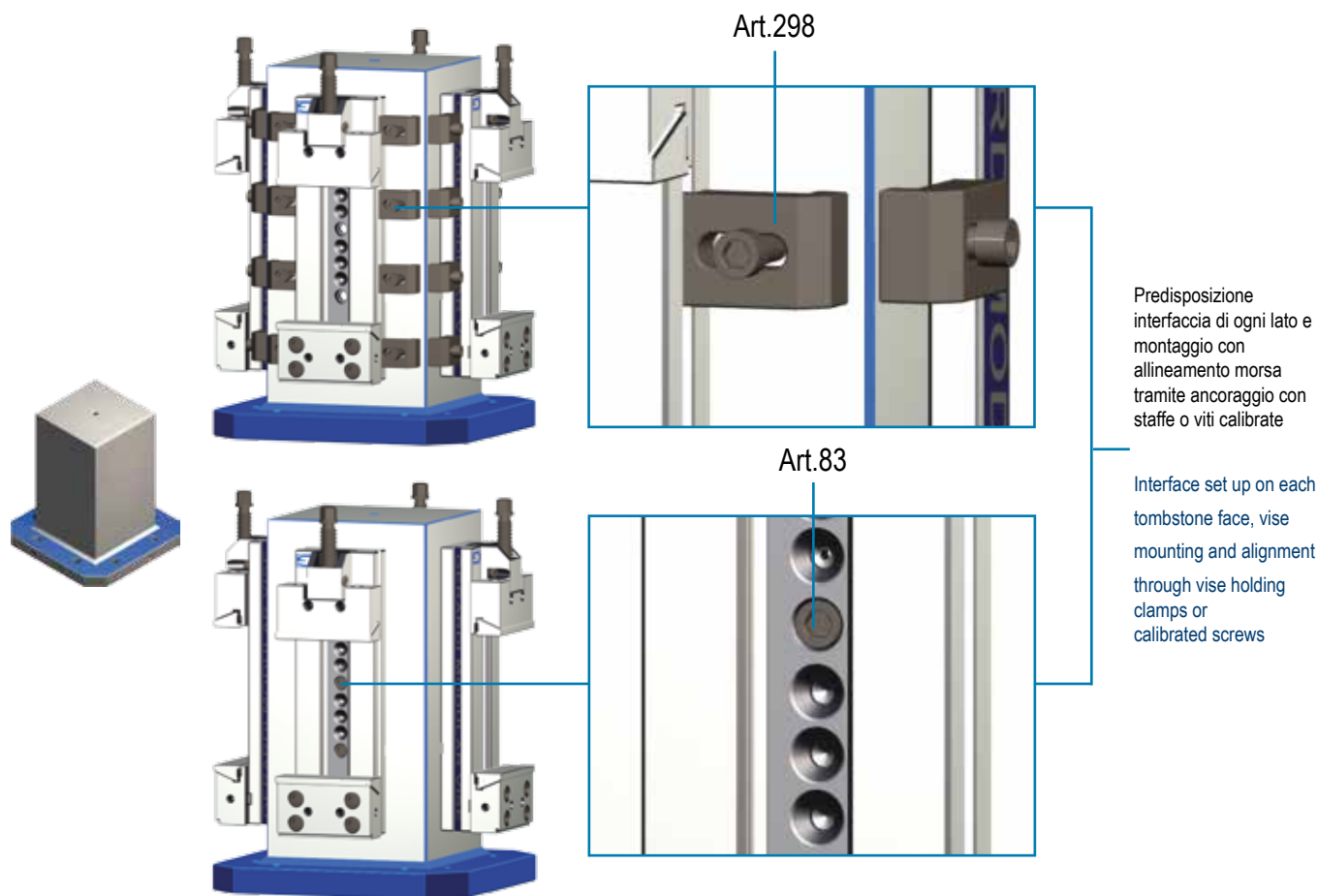


Art. 83

Inoltre con questo sistema di predisposizione potete fissare una piastra che vi permette l'interfacciamento sulla Vs. macchina o attrezzatura. (Fig.1 - pag 8.5)

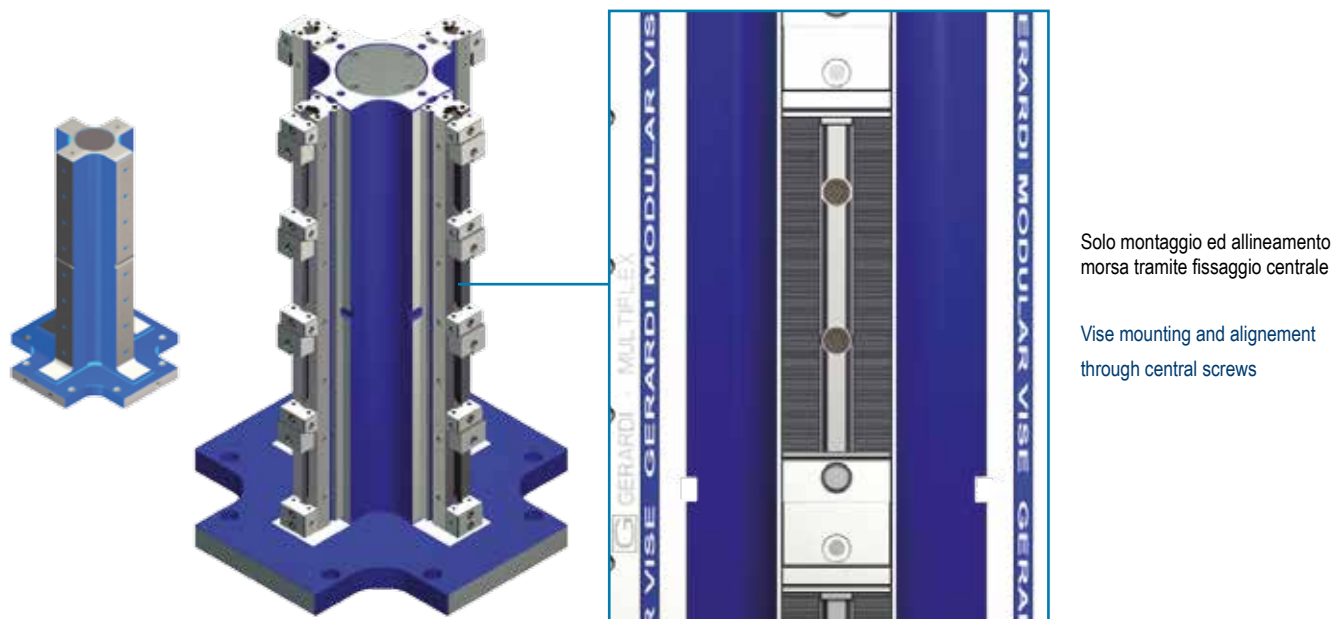
Further more with this solution you can fix any plate you wish to adapt as you need (Pic.1 - pag 8.5)

MONTAGGIO MORSE SU CUBI COMPLETAMENTE LAVORATI (versione "C")
WISE MOUNTING ALTERNATIVES ON COMPLETELY MACHINED TOMBSTONES ("C" type)

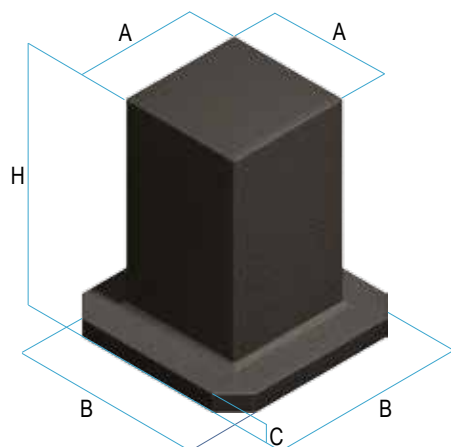


* Montaggio e allineamento incluso di staffe, viti, chiavette e quant'altro necessario.
Mounting and alignment includes vise clamps, screws, keyways and all the necessary equipment.

MONTAGGIO MORSE SU CUBI COMPLETAMENTE LAVORATI E GIÀ PREDISPOSTI (versione "G")
WISE MOUNTING ALTERNATIVES ON COMPLETELY MACHINED AND INTERFACED TOMBSTONES ("G" type)

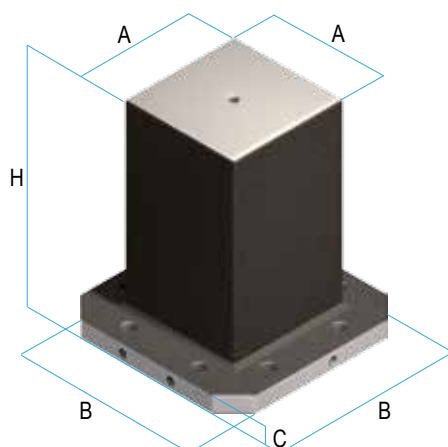


* Montaggio e allineamento incluso di viti, chiavette e quant'altro necessario.
Mounting and alignment includes screws, keyways and all the necessary equipment.

CUBI CUBES
Art. 53A
Sgrossati di fresa
Rough milled

General tolerance ± 2 mm

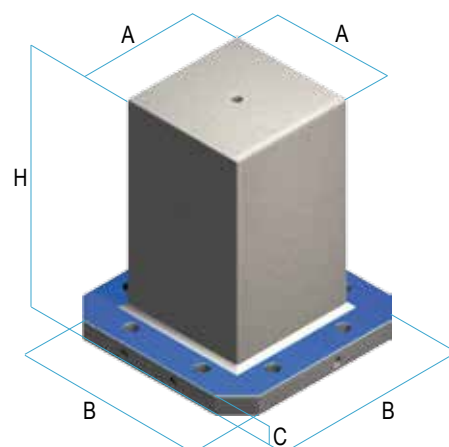
Dimensioni *Dimensions*

A	B	C	H	kg	Cod.
90	260	45	410	44	8.53.A00009
170	260	50	300	66	8.53.A00020
210	325	50	310	96	8.53.A00030
210	360	50	380	119	8.53.A00040
210	360	50	535	153	8.53.A00045
210	510	50	610	217	8.53.A00050
260	410	50	460	179	8.53.A00060
260	460	50	460	195	8.53.A00070
260	410	50	560	207	8.53.A00080
260	410	50	670	239	8.53.A00081
260	510	50	620	258	8.53.A00090
260	510	50	660	270	8.53.A00100
260	510	50	760	298	8.53.A00105
260	640	50	710	337	8.53.A00106
260	510	50	1010	368	8.53.A00107
280	410	50	520	210	8.53.A00110
310	510	50	610	293	8.53.A00111
310	510	50	760	345	8.53.A00113
310	510	50	910	397	8.53.A00115
340	510	50	670	335	8.53.A00120
360	510	50	420	252	8.53.A00140
360	510	50	460	268	8.53.A00150
360	510	50	560	310	8.53.A00160
360	510	50	620	334	8.53.A00170
360	510	50	710	372	8.53.A00171
360	640	50	710	425	8.53.A00172
360	640	50	830	496	8.53.A00180
360	510	50	830	420	8.53.A00181
360	640	50	960	529	8.53.A00185
460	640	50	560	431	8.53.A00190
460	640	50	660	486	8.53.A00200
510	640	50	870	655	8.53.A00211
560	760	50	860	763	8.53.A00220
510	810	50	810	704	8.53.A00230

Art. 53B
Base finita
Base finished

General tolerance ± 2 mm

Dimensioni *Dimensions*

A	B	C	H	kg	Cod.
90	250	40	400	40	8.53.B00009
170	250	45	290	61	8.53.B00020
210	315	45	300	89	8.53.B00030
210	350	45	370	112	8.53.B00040
210	350	45	525	147	8.53.B00045
210	500	45	600	203	8.53.B00050
260	400	45	450	169	8.53.B00060
260	450	45	450	183	8.53.B00070
260	400	45	550	197	8.53.B00080
260	400	45	660	228	8.53.B00081
260	500	45	610	244	8.53.B00090
260	500	45	650	255	8.53.B00100
260	500	45	750	284	8.53.B00105
260	630	45	700	316	8.53.B00106
260	500	45	1000	355	8.53.B00107
280	400	45	510	198	8.53.B00110
310	500	45	600	278	8.53.B00111
310	500	45	750	330	8.53.B00113
310	500	45	900	383	8.53.B00115
340	500	45	660	321	8.53.B00120
360	500	45	410	236	8.53.B00140
360	500	45	450	253	8.53.B00150
360	500	45	550	294	8.53.B00160
360	500	45	610	319	8.53.B00170
360	500	45	700	356	8.53.B00171
360	630	45	700	403	8.53.B00172
360	630	45	820	452	8.53.B00180
360	500	45	820	403	8.53.B00181
360	630	45	950	508	8.53.B00185
460	630	45	550	409	8.53.B00190
460	630	45	650	463	8.53.B00200
510	630	45	860	631	8.53.B00211
560	750	45	850	732	8.53.B00220
510	800	45	800	671	8.53.B00230

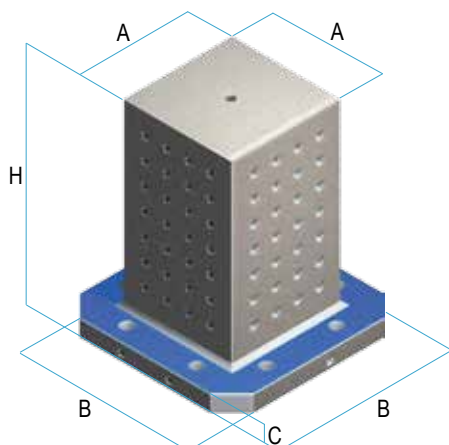
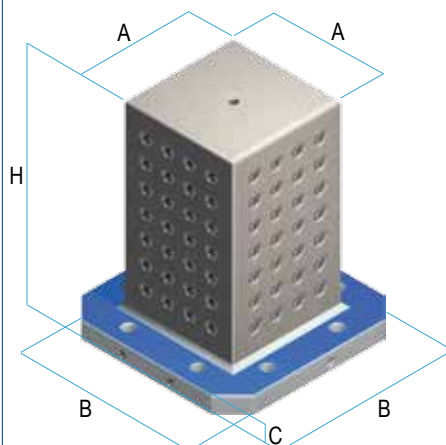
Art. 53C
Completamente lavorati
Completely machined

General tolerance $\pm 0,02$ mm

Dimensioni *Dimensions*

A	B	C	H	kg	Cod.
80	250	35	400	33	8.53.C00009
160	250	40	290	54	8.53.C00020
200	315	40	300	79	8.53.C00030
200	350	40	370	99	8.53.C00040
200	350	40	525	128	8.53.C00045
200	500	40	600	179	8.53.C00050
250	400	40	450	150	8.53.C00060
250	450	40	450	164	8.53.C00070
250	400	40	550	174	8.53.C00080
250	400	40	660	201	8.53.C00081
250	500	40	610	215	8.53.C00090
250	500	40	650	225	8.53.C00100
250	500	40	750	249	8.53.C00105
250	630	40	700	279	8.53.C00106
250	500	45	1000	310	8.53.A00107
270	400	40	510	176	8.53.C00110
300	500	40	600	247	8.53.C00111
300	500	40	750	293	8.53.C00113
300	500	40	900	338	8.53.C00115
330	500	40	660	287	8.53.C00120
350	500	40	410	212	8.53.C00140
350	500	40	450	226	8.53.C00150
350	500	40	550	263	8.53.C00160
350	500	40	610	284	8.53.C00170
350	500	40	700	317	8.53.C00171
350	630	40	700	359	8.53.C00172
350	630	40	820	402	8.53.C00180
350	500	40	820	358	8.53.C00181
350	630	40	950	450	8.53.C00185
450	630	40	550	367	8.53.C00190
450	630	40	650	415	8.53.C00200
500	630	40	860	565	8.53.C00211
550	750	40	850	656	8.53.C00220
500	800	40	800	600	8.53.C00230

Modelli normalmente presenti a magazzino

> Non sgrassato di fresa ! Per lavorazioni o materiali diversi (alluminio), richiedere quotazione specifica

CUBI CUBES
Art. 53E
Reticolo integrale
Grid cube

Art. 53F
Reticolo con bussole
Grid cube with bushing


Stesse dimensioni dell'Art. 53C / Same dimensions of Art. 53C
Peso: -5% circa rispetto Art. 53C / Weight: About -5% of Art. 53C

Art. 53E 40		Art. 53E 50		Art. 53F 40		Art. 53F 50	
Cod.		Cod.		Cod.		Cod.	
8.53.E40009		8.53.E00009		8.53.F40009		8.53.F00009	
8.53.E40020		8.53.E00020		8.53.F40020		8.53.F00020	
8.53.E40030		8.53.E00030		8.53.F40030		8.53.F00030	
8.53.E40040		8.53.E00040		8.53.F40040		8.53.F00040	
8.53.E40045		8.53.E00045		8.53.F40045		8.53.F00045	
8.53.E40050		8.53.E00050		8.53.F40050		8.53.F00050	
8.53.E40060		8.53.E00060		8.53.F40060		8.53.F00060	
8.53.E40070		8.53.E00070		8.53.F40070		8.53.F00070	
8.53.E40080		8.53.E00080		8.53.F40080		8.53.F00080	
8.53.E40081		8.53.E00081		8.53.F40081		8.53.F00081	
8.53.E40090		8.53.E00090		8.53.F40090		8.53.F00090	
8.53.E40100		8.53.E00100		8.53.F40100		8.53.F00100	
8.53.E40105		8.53.E00105		8.53.F40105		8.53.F00105	
8.53.E40106		8.53.E00106		8.53.F40106		8.53.F00106	
8.53.E40107		8.53.E00107		8.53.F40107		8.53.F00107	
8.53.E40110		8.53.E00110		8.53.F40110		8.53.F00110	
8.53.E40111		8.53.E00111		8.53.F40111		8.53.F00111	
8.53.E40113		8.53.E00113		8.53.F40113		8.53.F00113	
8.53.E40115		8.53.E00115		8.53.F40115		8.53.F00115	
8.53.E40120		8.53.E00120		8.53.F40120		8.53.F00120	
8.53.E40140		8.53.E00140		8.53.F40140		8.53.F00140	
8.53.E40150		8.53.E00150		8.53.F40150		8.53.F00150	
8.53.E40160		8.53.E00160		8.53.F40160		8.53.F00160	
8.53.E40170		8.53.E00170		8.53.F40170		8.53.F00170	
8.53.E40171		8.53.E00171		8.53.F40171		8.53.F00171	
8.53.E40172		8.53.E00172		8.53.F40172		8.53.F00172	
8.53.E40180		8.53.E00180		8.53.F40180		8.53.F00180	
8.53.E40181		8.53.E00181		8.53.F40181		8.53.F00181	
8.53.E40185		8.53.E00185		8.53.F40185		8.53.F00185	
8.53.E40190		8.53.E00190		8.53.F40190		8.53.F00190	
8.53.E40200		8.53.E00200		8.53.F40200		8.53.F00200	
8.53.E40211		8.53.E00211		8.53.F40211		8.53.F00211	
8.53.E40220		8.53.E00220		8.53.F40220		8.53.F00220	
8.53.E40230		8.53.E00230		8.53.F40230		8.53.F00230	

Available usually immediately

> Not rough milled

! For different finishing and materials (aluminium), ask for specific quotation

Specifiche Specifications
Art. 53A

Fusione in ghisa G30 monoblocco sgrossata con doppio trattamento di distensione.
Pareti con spessore 43-45 mm
(Sovrametallo 10 mm)

One integral G30 cast iron casting rough milled with double stress relieving heat treatment.
Wall thickness 43-45 mm
(10 mm stock)

Art. 53B

Fusione sgrossata con base lavorata e raschiata per pallet a norme Europee o Giapponesi.

Vedi specifiche a pag. 8.6

Rough milled casting with base face machined and hand scraped for direct clamping on European or Japanese standard pallet.
See specifications pag. 8.6

Art. 53C

Cubo completamente finito con pareti spessore 38-40 mm circa.

Cube completely finished with wall thickness roughly 38-40 mm

Art. 53E 40 / 50

Cubo a reticolo con fori calibrati e filettati integrali
Tolleranza $\pm 0,02$ mm

- Interasse reticolo 40 mm = $\varnothing 12$ / M10
- Interasse reticolo 50 mm = $\varnothing 16$ / M12

Grid cube with calibrated holes and solid threads
Tolerance $\pm 0,02$ mm

- Grid pitch 40 mm = $\varnothing 12$ / M10
- Grid pitch 50 mm = $\varnothing 16$ / M12

Art. 53F 40 / 50

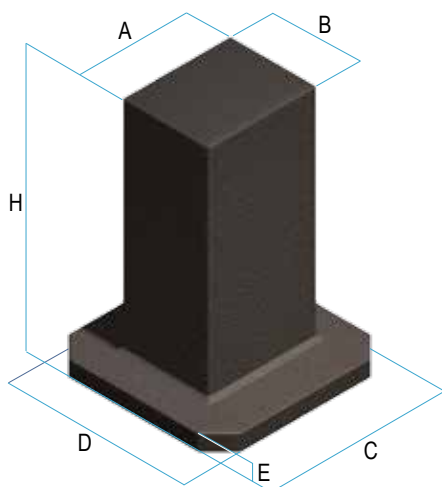
Cubo a reticolo con bussole temprate 100Cr6 e filetti riportati in acciaio inox
Tolleranza $\pm 0,02$ mm

- Interasse reticolo 40 mm = $\varnothing 12$ / M10
- Interasse reticolo 50 mm = $\varnothing 16$ / M12

Grid cube with hardened bushing 100Cr6 and stainless steel helicoils
Tolerance $\pm 0,02$ mm

- Grid pitch 40 mm = $\varnothing 12$ / M10
- Grid pitch 50 mm = $\varnothing 16$ / M12

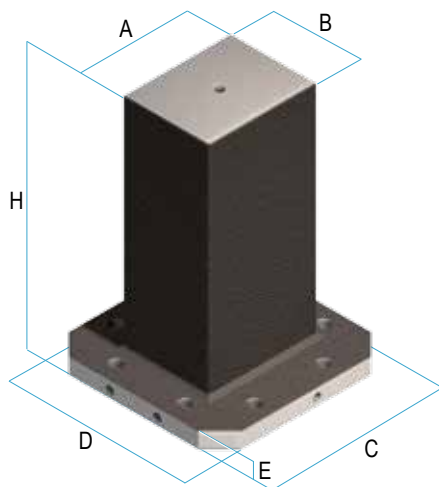
CUBI RETTANGOLARI
RECTANGULAR CUBES
Art. 54A

 Sgrossati di fresa
 Rough milled

 General tolerance ± 2 mm

 Dimensioni *Dimensions*

A	B	C	D	kg	Cod.	
310	210	460	310	142	8.54.A00010	
360	260	410	410	241	8.54.A00040	
360	260	510	510	344	8.54.A00070	
310	210	410	410	206	8.54.A00080	
460	360	640	640	397	8.54.A00100	
460	360	640	640	450	8.54.A00110	
560	360	640	640	484	8.54.A00120	
E	H	kg	Cod.			
50	370	142	8.54.A00010			
50	560	241	8.54.A00040			
50	760	344	8.54.A00070			
50	560	206	8.54.A00080			
50	560	397	8.54.A00100			
50	660	450	8.54.A00110			
50	660	484	8.54.A00120			

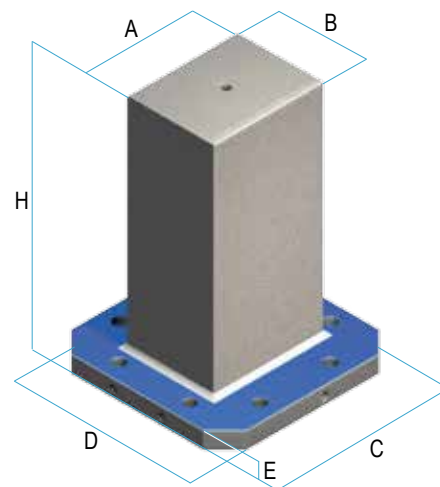
Art. 54B

 Base finita
 Base finished

 General tolerance ± 2 mm

 Dimensioni *Dimensions*

A	B	C	D	kg	Cod.	
310	210	450	300	134	8.54.B00010	
360	260	400	400	230	8.54.B00040	
360	260	500	500	329	8.54.B00070	
310	210	400	400	196	8.54.B00080	
460	360	630	630	375	8.54.B00100	
460	360	630	630	428	8.54.B00110	
560	360	630	630	461	8.54.B00120	
E	H	kg	Cod.			
45	360	134	8.54.B00010			
45	550	230	8.54.B00040			
45	750	329	8.54.B00070			
45	550	196	8.54.B00080			
45	550	375	8.54.B00100			
45	650	428	8.54.B00110			
45	650	461	8.54.B00120			

Art. 54C

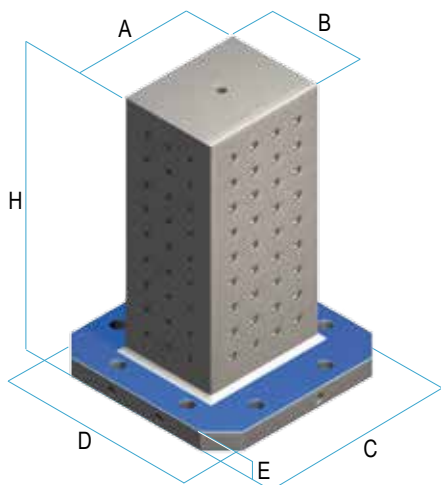
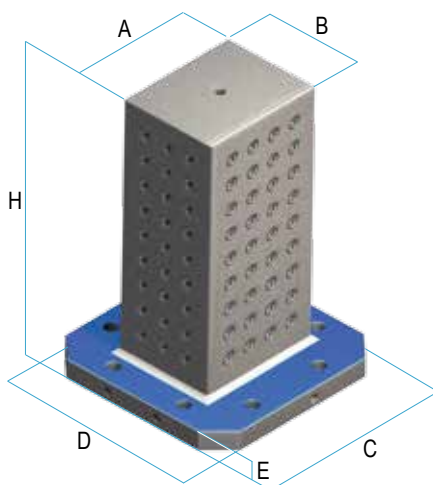
 Completamente lavorati
 Completely machined

 General tolerance $\pm 0,02$ mm

 Dimensioni *Dimensions*

A	B	C	D	kg	Cod.	
300	200	450	300	127	8.54.C00010	
350	250	400	400	205	8.54.C00040	
350	250	500	500	292	8.54.C00070	
300	200	400	400	174	8.54.C00080	
450	350	630	630	336	8.54.C00100	
450	350	630	630	340	8.54.C00110	
550	350	630	630	413	8.54.C00120	
E	H	kg	Cod.			
45	360	127	8.54.C00010			
45	550	205	8.54.C00040			
45	750	292	8.54.C00070			
45	550	174	8.54.C00080			
45	550	336	8.54.C00100			
45	650	340	8.54.C00110			
45	650	413	8.54.C00120			

Modelli normalmente presenti a magazzino

> Non sgrassato di fresa ! Per lavorazioni o materiali diversi (alluminio), richiedere quotazione specifica

CUBI RETTANGOLARI
RECTANGULAR CUBES
Art. 54E
Reticolo integrale
Grid cube

Art. 54F
Reticolo con bussole
Grid cube with bushing


Stesse dimensioni dell'Art. 54C / Same dimensions of Art. 54C
Peso: -5% circa rispetto Art. 54C / Weight: About -5% of Art. 54C

Art. 54E 40		Art. 54E 50		Art. 54F 40		Art. 54F 50	
Cod.		Cod.		Cod.		Cod.	
8.54.E40010		8.54.E00010		8.54.F40010		8.54.F00010	
8.54.E40040		8.54.E00040		8.54.F40040		8.54.F00040	
8.54.E40070		8.54.E00070		8.54.F40070		8.54.F00070	
8.54.E40080		8.54.E00080		8.54.F40080		8.54.F00080	
8.54.E40100		8.54.E00100		8.54.F40100		8.54.F00100	
8.54.E40110		8.54.E00110		8.54.F40110		8.54.F00110	
8.54.E40120		8.54.E00120		8.54.F40120		8.54.F00120	

Specifiche Specifications
Art. 54A

Fusione in ghisa G30 monoblocco sgrossata con doppio trattamento di distensione.
Pareti con spessore 43-45 mm
(Sovrametallo 10 mm)

One integral G30 cast iron casting rough milled with double stress relieving heat treatment.
Wall thickness 43-45 mm
(10 mm stock)

Art. 54B

Fusione sgrossata con base lavorata e raschiata per pallet a norme Europee o Giapponesi.

Vedi specifiche a pag. 8.6

Rough milled casting with base face machined and hand scraped for direct clamping on European or Japanese standard pallet.
See specifications pag. 8.6

Art. 54C

Cubo rettangolare completamente finito con pareti spessore 38-40 mm circa.

Rectangular cube completely finished with wall thickness roughly 38-40 mm

Art. 54E 40 / 50

Cubo rettangolare a reticolo con fori calibrati e filettati integrali - Tolleranza $\pm 0,02$ mm

- Interasse reticolo 40 mm = $\varnothing 12$ / M10
- Interasse reticolo 50 mm = $\varnothing 16$ / M12

Grid rectangular cube with calibrated holes and solid threads - Tolerance $\pm 0,02$ mm

- Grid pitch 40 mm = $\varnothing 12$ / M10
- Grid pitch 50 mm = $\varnothing 16$ / M12

Art. 54F 40 / 50

Cubo rettangolare a reticolo con bussole temprate 100Cr6 e filetti riportati in acciaio inox Tolleranza $\pm 0,02$ mm

- Interasse reticolo 40 mm = $\varnothing 12$ / M10
- Interasse reticolo 50 mm = $\varnothing 16$ / M12

Grid rectangular cube with hardened bushing 100Cr6 and stainless steel helicoils Tolerance $\pm 0,02$ mm

- Grid pitch 40 mm = $\varnothing 12$ / M10
- Grid pitch 50 mm = $\varnothing 16$ / M12

Available usually immediately

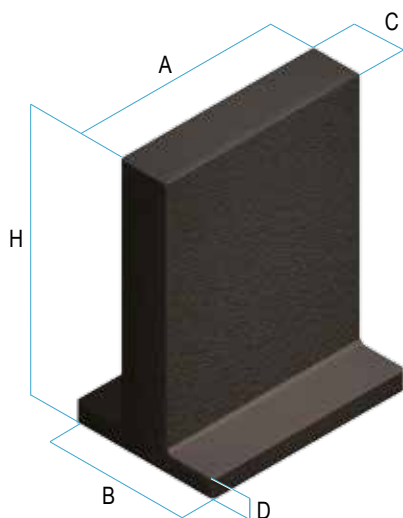
> Not rough milled

! For different finishing and materials (aluminium), ask for specific quotation

SPALLE 2 SIDES TOMBSTONES

Art. 55A

Sgrossati di fresa
Rough milled

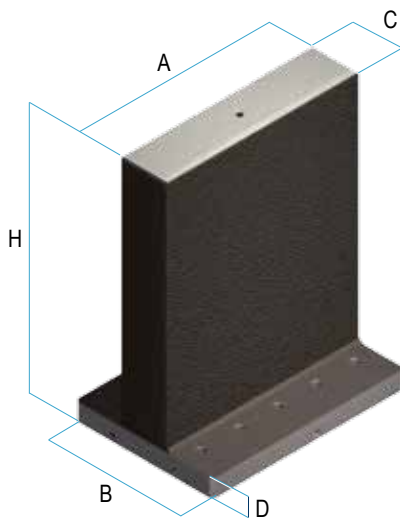


General tolerance ± 2 mm

Dimensioni		Dimensions					
A	B	C	D	H	kg	Cod.	
170	210	80	55	235	31	8.55.A00010	
360	260	90	60	425	124	8.55.A00040	
410	360	110	60	535	221	8.55.A00050	
410	410	160	60	510	215	8.55.A00051	
410	410	160	55	670	262	8.55.A00052	
510	510	160	55	710	350	8.55.A00053	
510	510	210	60	610	340	8.55.A00054	
510	510	270	50	635	360	8.55.A00055	
460	360	110	60	535	241	8.55.A00060	
460	360	110	60	630	283	8.55.A00070	
560	360	110	70	660	368	8.55.A00080	
510	360	160	60	660	307	8.55.A00090	
460	360	160	60	620	289	8.55.A00120	
460	360	160	60	760	316	8.55.A00125	
560	360	160	70	680	352	8.55.A00150	
560	460	160	60	830	430	8.55.A00160	
640	460	160	60	830	486	8.55.A00170	
640	460	260	70	910	589	8.55.A00171	
640	640	210	60	870	579	8.55.A00172	
640	640	260	60	710	521	8.55.A00173	
360	460	160	70	660	250	8.55.A00180	
810	460	160	70	860	632	8.55.A00190	
810	810	310	60	810	782	8.55.A00191	
810	810	210	60	1010	855	8.55.A00192	

Art. 55B

Base finita
Base finished

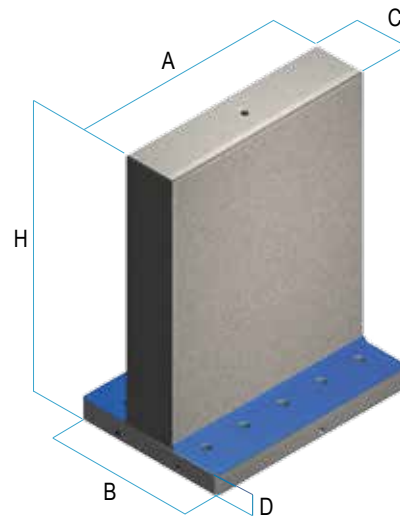


General tolerance ± 2 mm

Dimensioni		Dimensions					
A	B	C	D	H	kg	Cod.	
160	200	80	50	225	29	8.55.B00010	
350	250	90	55	415	114	8.55.B00040	
400	350	110	55	525	207	8.55.B00050	
400	400	160	55	500	199	8.55.B00051	
400	400	160	50	660	244	8.55.B00052	
500	500	160	50	700	331	8.55.B00053	
500	500	210	55	600	316	8.55.B00054	
500	500	270	45	625	336	8.55.B00055	
450	350	110	55	525	227	8.55.B00060	
450	350	110	55	620	267	8.55.B00070	
550	350	110	65	650	350	8.55.B00080	
500	350	160	55	650	289	8.55.B00090	
450	350	160	55	610	271	8.55.B00120	
450	350	160	55	750	297	8.55.B00125	
550	350	160	65	670	332	8.55.B00150	
550	450	160	55	820	406	8.55.B00160	
630	450	160	55	820	460	8.55.B00170	
630	450	260	65	900	564	8.55.B00171	
630	630	210	55	850	545	8.55.B00172	
630	630	260	55	700	485	8.55.B00173	
350	450	160	65	650	232	8.55.B00180	
800	450	160	65	850	604	8.55.B00190	
800	800	310	55	800	732	8.55.B00191	
800	800	210	55	1000	820	8.55.B00192	

Art. 55C

Completamente lavorati
Completely machined



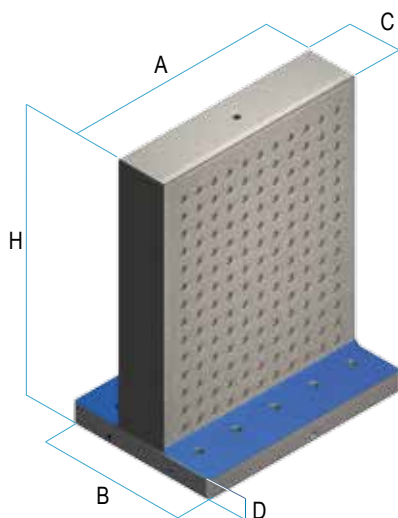
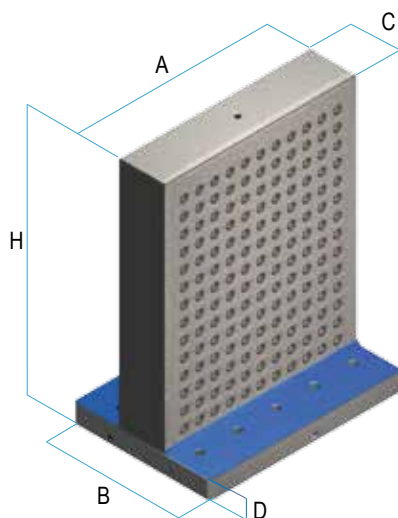
General tolerance $\pm 0,02$ mm

Dimensioni		Dimensions					
A	B	C	D	H	kg	Cod.	
160	200	70	45	225	24	8.55.C00010	
350	250	80	50	415	103	8.55.C00040	
400	350	100	50	525	190	8.55.C00050	
400	400	150	50	500	193	8.55.C00051	
400	400	150	45	660	222	8.55.C00052	
500	500	150	45	700	290	8.55.C00053	
500	500	200	50	600	287	8.55.C00054	
500	500	260	40	625	310	8.55.C00055	
450	350	100	50	525	208	8.55.C00060	
450	350	100	50	620	245	8.55.C00070	
550	350	100	60	650	321	8.55.C00080	
500	350	150	50	650	263	8.55.C00090	
450	350	150	50	610	250	8.55.C00120	
450	350	150	50	750	271	8.55.C00125	
550	350	150	60	670	303	8.55.C00150	
550	450	150	50	820	369	8.55.C00160	
630	450	150	50	820	418	8.55.C00170	
630	450	250	60	900	513	8.55.C00171	
630	630	200	50	850	504	8.55.C00172	
630	630	250	50	700	447	8.55.C00173	
350	450	150	60	650	213	8.55.C00180	
800	450	150	60	850	548	8.55.C00190	
800	800	300	50	800	674	8.55.C00191	
800	800	200	50	1000	814	8.55.C00192	

Modelli normalmente presenti a magazzino

> Non sgrassato di fresa ! Per lavorazioni o materiali diversi (alluminio), richiedere quotazione specifica

SPALLE 2 SIDES TOMBSTONES

Art. 55E
Reticolo integrale
Grid tombstone

Art. 55F
Reticolo con bussole
Grid tombstone
with bushing


Stesse dimensioni dell'Art. 55C / Same dimensions of Art. 55C
Peso: -5% circa rispetto Art. 55C / Weight: About -5% of Art. 55C

Art. 55E 40		Art. 55E 50		Art. 55F 40		Art. 55F 50	
Cod.		Cod.		Cod.		Cod.	
8.55.E40010		8.55.E00010		8.55.F40010		8.55.F00010	
8.55.E40040		8.55.E00040		8.55.F40040		8.55.F00040	
8.55.E40050		8.55.E00050		8.55.F40050		8.55.F00050	
8.55.E40051		8.55.E00051		8.55.F40051		8.55.F00051	
8.55.E40052		8.55.E00052		8.55.F40052		8.55.F00052	
8.55.E40053		8.55.E00053		8.55.F40053		8.55.F00053	
8.55.E40054		8.55.E00054		8.55.F40054		8.55.F00054	
8.55.E40055		8.55.E00055		8.55.F40055		8.55.F00055	
8.55.E40060		8.55.E00060		8.55.F40060		8.55.F00060	
8.55.E40070		8.55.E00070		8.55.F40070		8.55.F00070	
8.55.E40080		8.55.E00080		8.55.F40080		8.55.F00080	
8.55.E40090		8.55.E00090		8.55.F40090		8.55.F00090	
8.55.E40120		8.55.E00120		8.55.F40120		8.55.F00120	
8.55.E40125		8.55.E00125		8.55.F40125		8.55.F00125	
8.55.E40150		8.55.E00150		8.55.F40150		8.55.F00150	
8.55.E40160		8.55.E00160		8.55.F40160		8.55.F00160	
8.55.E40170		8.55.E00170		8.55.F40170		8.55.F00170	
8.55.E40171		8.55.E00171		8.55.F40171		8.55.F00171	
8.55.E40172		8.55.E00172		8.55.F40172		8.55.F00172	
8.55.E40173		8.55.E00173		8.55.F40173		8.55.F00173	
8.55.E40180		8.55.E00180		8.55.F40180		8.55.F00180	
8.55.E40190		8.55.E00190		8.55.F40190		8.55.F00190	
8.55.E40191		8.55.E00191		8.55.F40191		8.55.F00191	
8.55.E40192		8.55.E00192		8.55.F40192		8.55.F00192	

Specifiche Specifications

Art. 55A

Fusione in ghisa G30 monoblocco sgrossata con doppio trattamento di distensione.
Pareti con spessore 43-45 mm
(Sovrametallo 10 mm)

One integral G30 cast iron casting rough milled with double stress relieving heat treatment.
Wall thickness 43-45 mm
(10 mm stock)

Art. 55B

Fusione sgrossata con base lavorata e raschiata per pallet a norme Europee o Giapponesi.

Vedi specifiche a pag. 8.6

Rough milled casting with base face machined and hand scraped for direct clamping on European or Japanese standard pallet.
See specifications pag. 8.6

Art. 55C

Spalla completamente finita con pareti spessore 38-40 mm circa.

2 sides tombstone completely finished with wall thickness roughly 38-40 mm

Art. 55E 40 / 50

Spalla a reticolo con fori calibrati e filettati integrali - Tolleranza $\pm 0,02$ mm

- Interasse reticolo 40 mm = $\varnothing 12$ / M10
- Interasse reticolo 50 mm = $\varnothing 16$ / M12

2 sides grid tombstone with calibrated holes and solid threads - Tolerance $\pm 0,02$ mm

- Grid pitch 40 mm = $\varnothing 12$ / M10
- Grid pitch 50 mm = $\varnothing 16$ / M12

Art. 55F 40 / 50

Spalla a reticolo con bussole temprate 100Cr6 e filetti riportati in acciaio inox
Tolleranza $\pm 0,02$ mm

- Interasse reticolo 40 mm = $\varnothing 12$ / M10
- Interasse reticolo 50 mm = $\varnothing 16$ / M12

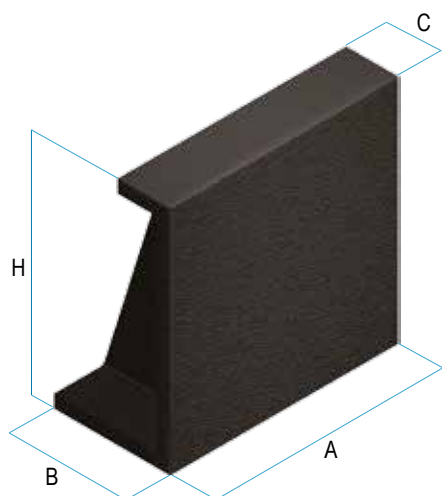
2 sides grid tombstone with hardened bushing 100Cr6 and stainless steel helicoils
Tolerance $\pm 0,02$ mm

- Grid pitch 40 mm = $\varnothing 12$ / M10
- Grid pitch 50 mm = $\varnothing 16$ / M12

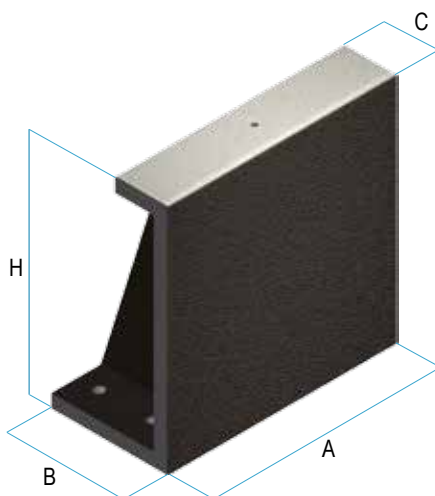
Available usually immediately

> Not rough milled

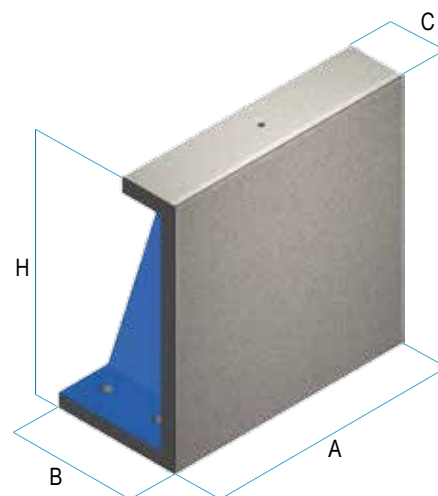
! For different finishing and materials (aluminium), ask for specific quotation

SQUADRE ANGLES
Art. 56A
Sgrossati di fresa
Rough milled

General tolerance ± 2 mm

Dimensioni		Dimensions					
A	B	C	H	kg	Cod.		
360	160	65	260	50	8.56.A00008		
310	230	105	310	66	8.56.A00009		
360	240	105	370	87	> 8.56.A00010		
410	290	105	410	114	8.56.A00011		
210	360	40	710	120	* 8.56.A00012		
410	340	155	520	167	> 8.56.A00030		
510	350	155	510	188	8.56.A00031		
460	340	155	470	161	> 8.56.A00040		
460	340	155	620	197	> 8.56.A00050		
640	445	155	640	304	8.56.A00051		
510	240	105	370	117	> 8.56.A00060		
560	440	205	820	342	> 8.56.A00080		
660	340	155	670	285	> 8.56.A00100		
210	310	55	710	102	8.56.A00101		
810	340	155	570	302	> 8.56.A00110		
810	535	205	810	491	8.56.A00111		
810	440	205	810	450	> 8.56.A00120		

Art. 56B
Base finita
Base finished

General tolerance ± 2 mm

Dimensioni		Dimensions					
A	B	C	H	kg	Cod.		
350	160	65	250	46	8.56.B00008		
300	230	105	300	61	8.56.B00009		
350	240	105	360	80	8.56.B00010		
400	290	105	400	106	8.56.B00011		
200	350	35	700	104	* 8.56.B00012		
400	340	155	510	148	8.56.B00030		
500	350	155	500	176	8.56.B00031		
450	340	155	460	150	8.56.B00040		
450	340	155	610	185	8.56.B00050		
630	445	155	630	286	8.56.B00051		
500	240	105	360	109	8.56.B00060		
550	440	205	810	324	8.56.B00080		
650	340	155	660	269	8.56.B00100		
200	310	55	700	96	8.56.B00101		
800	340	155	560	294	8.56.B00110		
800	535	205	800	464	8.56.B00111		
800	440	205	800	427	8.56.B00120		

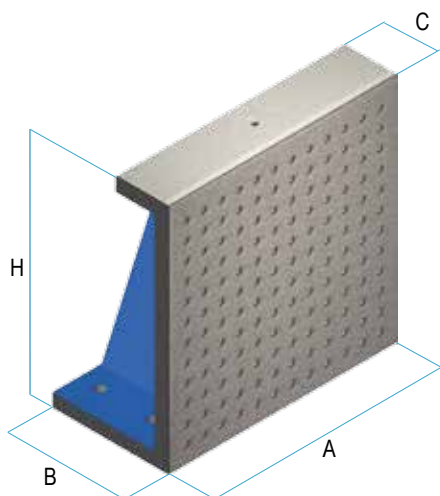
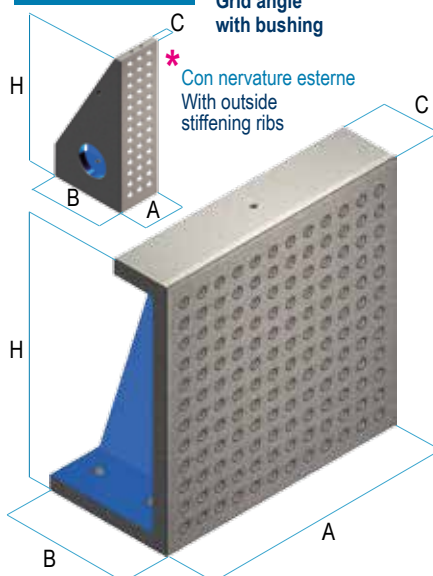
Art. 56C
Completamente lavorati
Completely machined

General tolerance $\pm 0,02$ mm

Dimensioni		Dimensions					
A	B	C	H	kg	Cod.		
350	150	60	250	42	8.56.C00008		
300	220	100	300	57	8.56.C00009		
350	230	100	360	75	8.56.C00010		
400	280	100	400	100	8.56.C00011		
200	350	35	700	100	* 8.56.C00012		
400	330	150	510	140	8.56.C00030		
500	340	150	500	166	8.56.C00031		
450	330	150	460	142	8.56.C00040		
450	330	150	610	174	8.56.C00050		
630	435	150	630	270	8.56.C00051		
500	230	100	360	307	8.56.C00060		
550	430	200	810	252	8.56.C00080		
650	330	150	660	245	8.56.C00100		
200	300	50	700	90	8.56.C00101		
800	330	150	560	266	8.56.C00110		
800	525	200	800	452	8.56.C00111		
800	430	200	800	402	8.56.C00120		

Modelli normalmente presenti a magazzino

> Non sgrassato di fresa ! Per lavorazioni o materiali diversi (alluminio), richiedere quotazione specifica

SQUADRE ANGLES

Art. 56E
Reticolo integrale
Grid angle

Art. 56F
Reticolo con bussole
Grid angle
with bushing


Stesse dimensioni dell'Art. 56C / Same dimensions of Art. 56C
Peso: -5% circa rispetto Art. 56C / Weight: About -5% of Art. 56C

Art. 56E 40		Art. 56E 50		Art. 56F 40		Art. 56F 50	
Cod.		Cod.		Cod.		Cod.	
8.56.E40008		8.56.E00008		8.56.F40008		8.56.F00008	
8.56.E40009		8.56.E00009		8.56.F40009		8.56.F00009	
8.56.E40010		8.56.E00010		8.56.F40010		8.56.F00010	
8.56.E40011		8.56.E00011		8.56.F40011		8.56.F00011	
* 8.56.E40012		* 8.56.E00012		* 8.56.F40012		* 8.56.F00012	
8.56.E40030		8.56.E00030		8.56.F40030		8.56.F00030	
8.56.E40031		8.56.E00031		8.56.F40031		8.56.F00031	
8.56.E40040		8.56.E00040		8.56.F40040		8.56.F00040	
8.56.E40050		8.56.E00050		8.56.F40050		8.56.F00050	
8.56.E40051		8.56.E00051		8.56.F40051		8.56.F00051	
8.56.E40060		8.56.E00060		8.56.F40060		8.56.F00060	
8.56.E40080		8.56.E00080		8.56.F40080		8.56.F00080	
8.56.E40100		8.56.E00100		8.56.F40100		8.56.F00100	
8.56.E40101		8.56.E00101		8.56.F40101		8.56.F00101	
8.56.E40110		8.56.E00110		8.56.F40110		8.56.F00110	
8.56.E40111		8.56.E00111		8.56.F40111		8.56.F00111	
8.56.E40120		8.56.E00120		8.56.F40120		8.56.F00120	

Available usually immediately

> Not rough milled

! For different finishing and materials (aluminium), ask for specific quotation

Specifiche Specifications

Art. 56A

Fusione in ghisa G30 monoblocco sgrassata con doppio trattamento di distensione.
Pareti con spessore 43-45 mm
(Sovrametallo 10 mm)

One integral G30 cast iron casting rough milled with double stress relieving heat treatment.
Wall thickness 43-45 mm
(10 mm stock)

Art. 56B

Fusione sgrassata con base lavorata e raschiata per pallet a norme Europee o Giapponesi.

Vedi specifiche a pag. 8.6

Rough milled casting with base face machined and hand scraped for direct clamping on European or Japanese standard pallet.
See specifications pag. 8.6

Art. 56C

Squadra completamente finita con pareti spessore 38-40 mm circa.

Angle completely finished with wall thickness roughly 38-40 mm

Art. 56E 40 / 50

Squadra a reticolo con fori calibrati e filettati integrali - Tolleranza $\pm 0,02$ mm

- Interasse reticolo 40 mm = $\varnothing 12$ / M10
- Interasse reticolo 50 mm = $\varnothing 16$ / M12

Grid angle with calibrated holes and solid threads - Tolerance $\pm 0,02$ mm

- Grid pitch 40 mm = $\varnothing 12$ / M10
- Grid pitch 50 mm = $\varnothing 16$ / M12

Art. 56F 40 / 50

Squadra a reticolo con bussole temprate 100Cr6 e filetti riportati in acciaio inox
Tolleranza $\pm 0,02$ mm

- Interasse reticolo 40 mm = $\varnothing 12$ / M10
- Interasse reticolo 50 mm = $\varnothing 16$ / M12

Grid angle with hardened bushing 100Cr6 and stainless steel helicoils

Tolerance $\pm 0,02$ mm

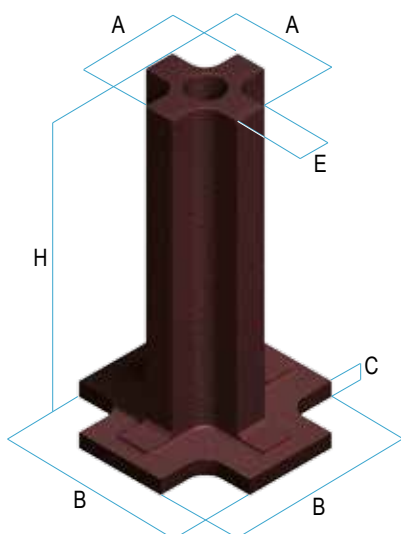
- Grid pitch 40 mm = $\varnothing 12$ / M10
- Grid pitch 50 mm = $\varnothing 16$ / M12

CUBI A CROCE

CROSS CUBES

Art. 57A

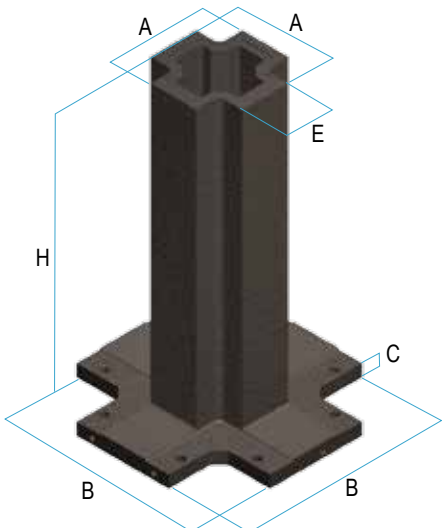
Sgrossati di fresa
Rough milled



General tolerance ± 2 mm

Dimensioni Dimensions

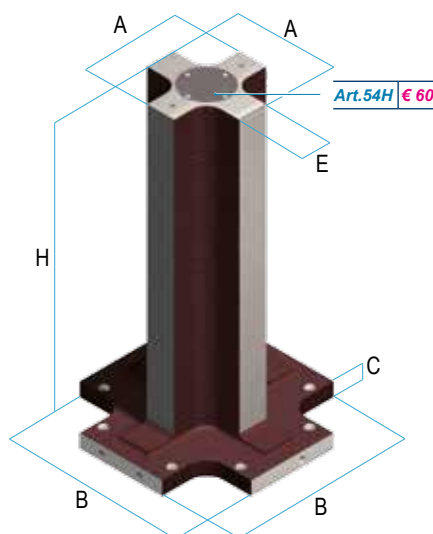
A	B	C	E	H	kg	Cod.
210	510	45	80	760	172	8.57.A00100
210	510	45	80	660	156	8.57.A00105
260	510	45	80	760	212	> 8.57.A00106
280	510	45	80	860	254	8.57.A00110



240	510	45	110	860	237	> 8.57.A00120
310	510	45	150	860	291	> 8.57.A00130
310	640	45	150	960	357	> 8.57.A00140
380	510	45	200	960	419	8.57.A00145
410	510	55	100	860	254	8.57.A00150

Art. 57B

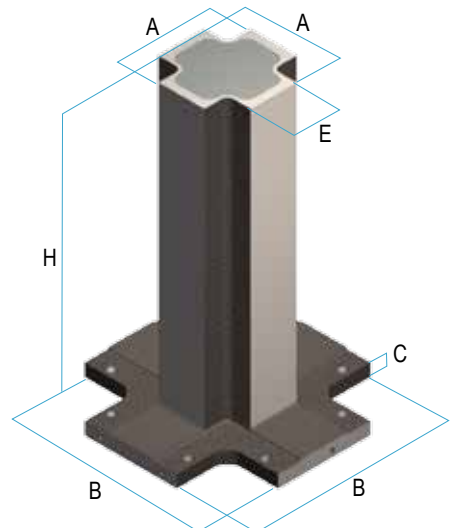
Base finita
Base finished



General tolerance ± 2 mm

Dimensioni Dimensions

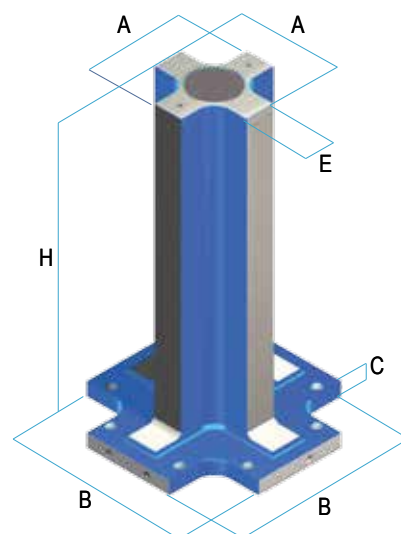
A	B	C	E	H	kg	Cod.
203	500	40	80	750	157	8.57.B00100
203	500	40	80	650	142	8.57.B00105
253	500	40	80	750	197	8.57.B00106
273	500	40	80	850	242	8.57.B00110



233	500	40	110	850	218	8.57.B00120
303	500	40	150	850	269	8.57.B00130
303	630	40	150	950	327	8.57.B00140
373	500	40	200	950	400	8.57.B00145
403	500	50	100	850	241	8.57.B00150

Art. 57C

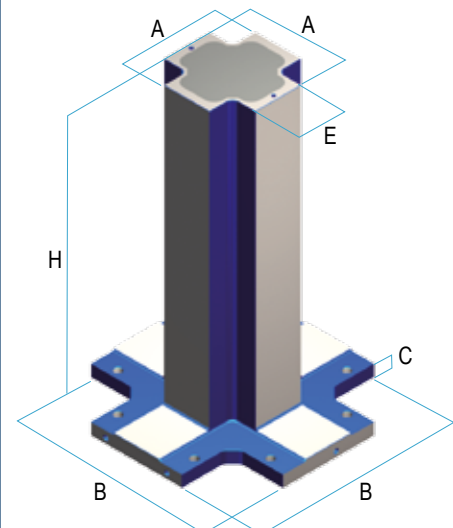
Completamente lavorati
Completely machined



General tolerance $\pm 0,02$ mm

Dimensioni Dimensions

A	B	C	E	H	kg	Cod.
200	500	40	80	750	154	8.57.C00100
200	500	40	80	650	140	8.57.C00105
250	500	40	80	750	194	8.57.C00106
270	500	40	80	850	240	8.57.C00110

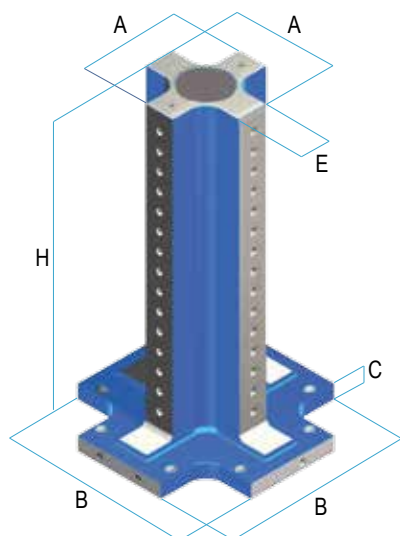
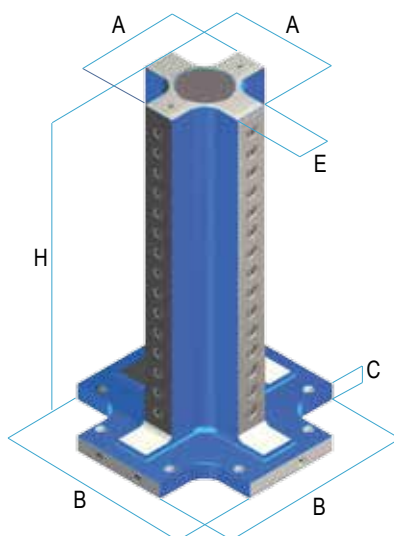


230	500	40	110	850	214	8.57.C00120
300	500	40	150	850	264	8.57.C00130
300	630	40	150	950	322	8.57.C00140
370	500	40	200	950	397	8.57.C00145
400	500	50	100	850	239	8.57.C00150

Modelli normalmente presenti a magazzino

> Non sgrossato di fresa ! Per lavorazioni o materiali diversi (alluminio), richiedere quotazione specifica

CUBI A CROCE CROSS CUBES

Art. 57E
Reticolo integrale
Grid cube

Art. 57F
Reticolo con bussole
Grid cube
with bushing


Stesse dimensioni dell'Art. 57C / Same dimensions of Art. 57C
Peso: -5% circa rispetto Art. 57C / Weight: About -5% of Art. 57C

Specifiche Specifications
Art. 57A

Fusione in ghisa G30 monoblocco sgrossata con doppio trattamento di distensione.
Pareti con spessore 43-45 mm
(Sovrametallo 10 mm)

One integral G30 cast iron casting rough milled with double stress relieving heat treatment.
Wall thickness 43-45 mm
(10 mm stock)

Art. 57B

Fusione sgrossata con base lavorata e raschiata per pallet a norme Europee o Giapponesi.

Vedi specifiche a pag. 8.6

Rough milled casting with base face machined and hand scraped for direct clamping on European or Japanese standard pallet.
See specifications pag. 8.6

Art. 57C

Cubo a croce completamente finito con pareti spessore 38-40 mm circa.

Crosscube completely finished with wall thickness roughly 38-40 mm

Art. 57E 40 / 50

Cubo a croce a reticolo con fori calibrati e filettati integrali - Tolleranza $\pm 0,02$ mm

- Interasse reticolo 40 mm = $\varnothing 12$ / M10
- Interasse reticolo 50 mm = $\varnothing 16$ / M12

Cross cube with calibrated holes and solid threads - Tolerance $\pm 0,02$ mm

- Grid pitch 40 mm = $\varnothing 12$ / M10
- Grid pitch 50 mm = $\varnothing 16$ / M12

Art. 57F 40 / 50

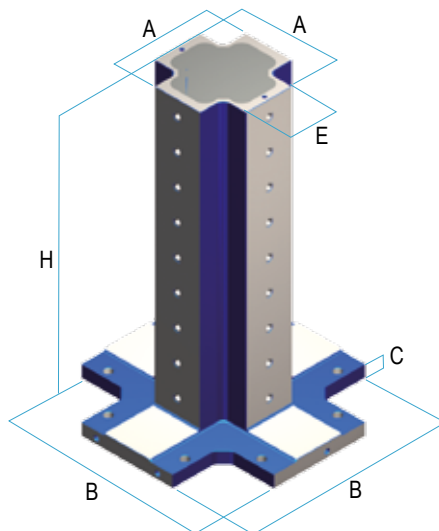
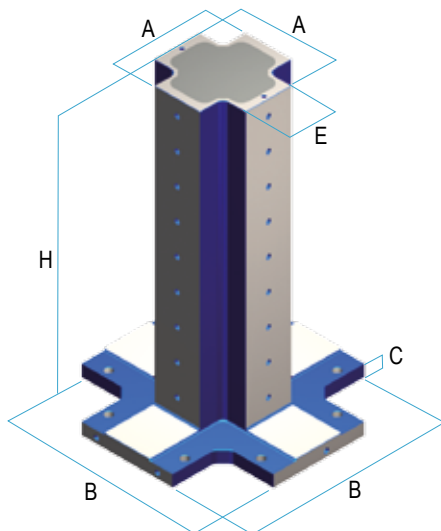
Cubo a croce a reticolo con bussole temprate 100Cr6 e filetti riportati in acciaio inox
Tolleranza $\pm 0,02$ mm

- Interasse reticolo 40 mm = $\varnothing 12$ / M10
- Interasse reticolo 50 mm = $\varnothing 16$ / M12

Grid cross cube with hardened bushing 100Cr6 and stainless steel helicoils
Tolerance $\pm 0,02$ mm

- Grid pitch 40 mm = $\varnothing 12$ / M10
- Grid pitch 50 mm = $\varnothing 16$ / M12

Art. 57E 40		Art. 57E 50	
Cod.		Cod.	
8.57.E40100		8.57.E00100	
8.57.E40105		8.57.E00105	
8.57.E40106		8.57.E00106	
8.57.E40110		8.57.E00110	



8.57.E40120		8.57.E00120	
8.57.E40130		8.57.E00130	
8.57.E40140		8.57.E00140	
8.57.E40145		8.57.E00145	
8.57.E40150		8.57.E00150	

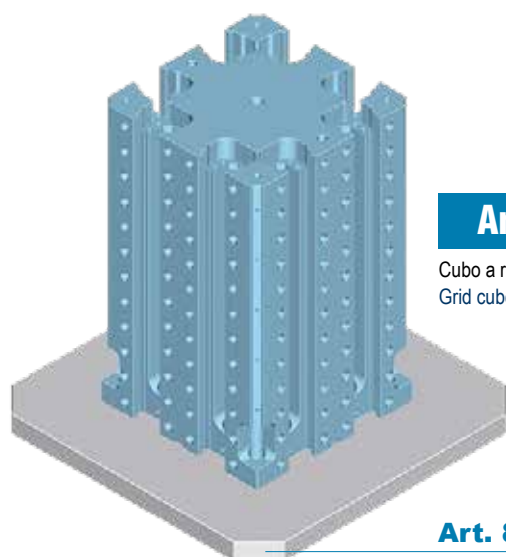
8.57.F40120		8.57.F00120	
8.57.F40130		8.57.F00130	
8.57.F40140		8.57.F00140	
8.57.F40145		8.57.F00145	
8.57.F40150		8.57.F00150	

Available usually immediately

> Not rough milled

! For different finishing and materials (aluminium), ask for specific quotation

SISTEMA MODULARE MULTIPIO MULTI-MODULAR SYSTEM

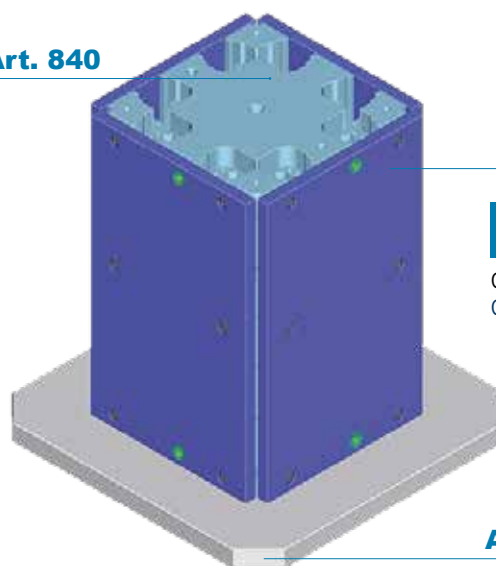


Art. 840

Cubo a reticolo - Corpo base
Grid cube - Base body

Art. 828 extra

Art. 840



Art. 58

Art. 841

Cubo con piastre riportate
Cube with modular plate

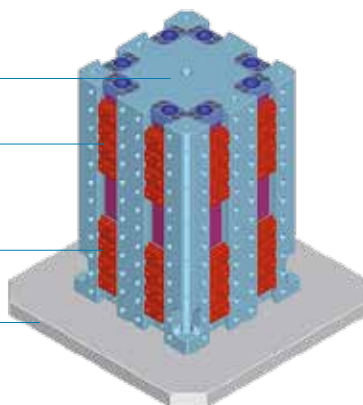
Art. 828 extra

Art. 840

Art. 829A

Art. 830

Art. 828 extra



Art. 842

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

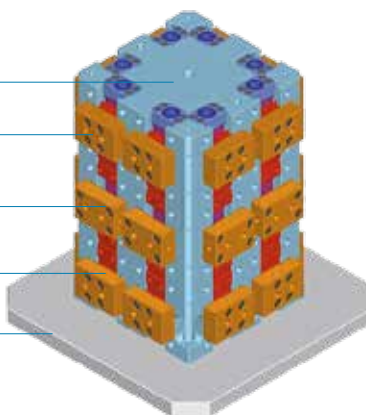
Art. 840

Art. 810

Art. 845

Art. 810

Art. 828 extra



Art. 843

Cubo con morse FMS con ganasce
(Per 16 pezzi)

Cube with FMS vises with jaws
(Clamping 16 pcs)

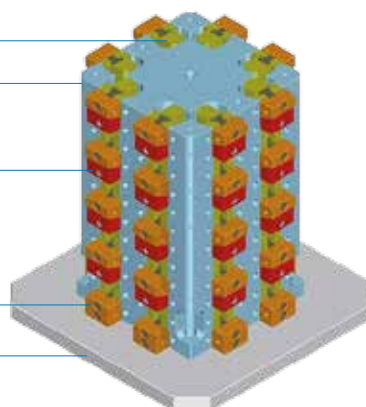
Art. 846

Art. 840

Art. 605

Art. 604

Art. 828 extra



Art. 844

Cubo con morse MULTIFLEX
(Per 32 pezzi)

Cube with MULTIFLEX vises
(Clamping 32 pcs)

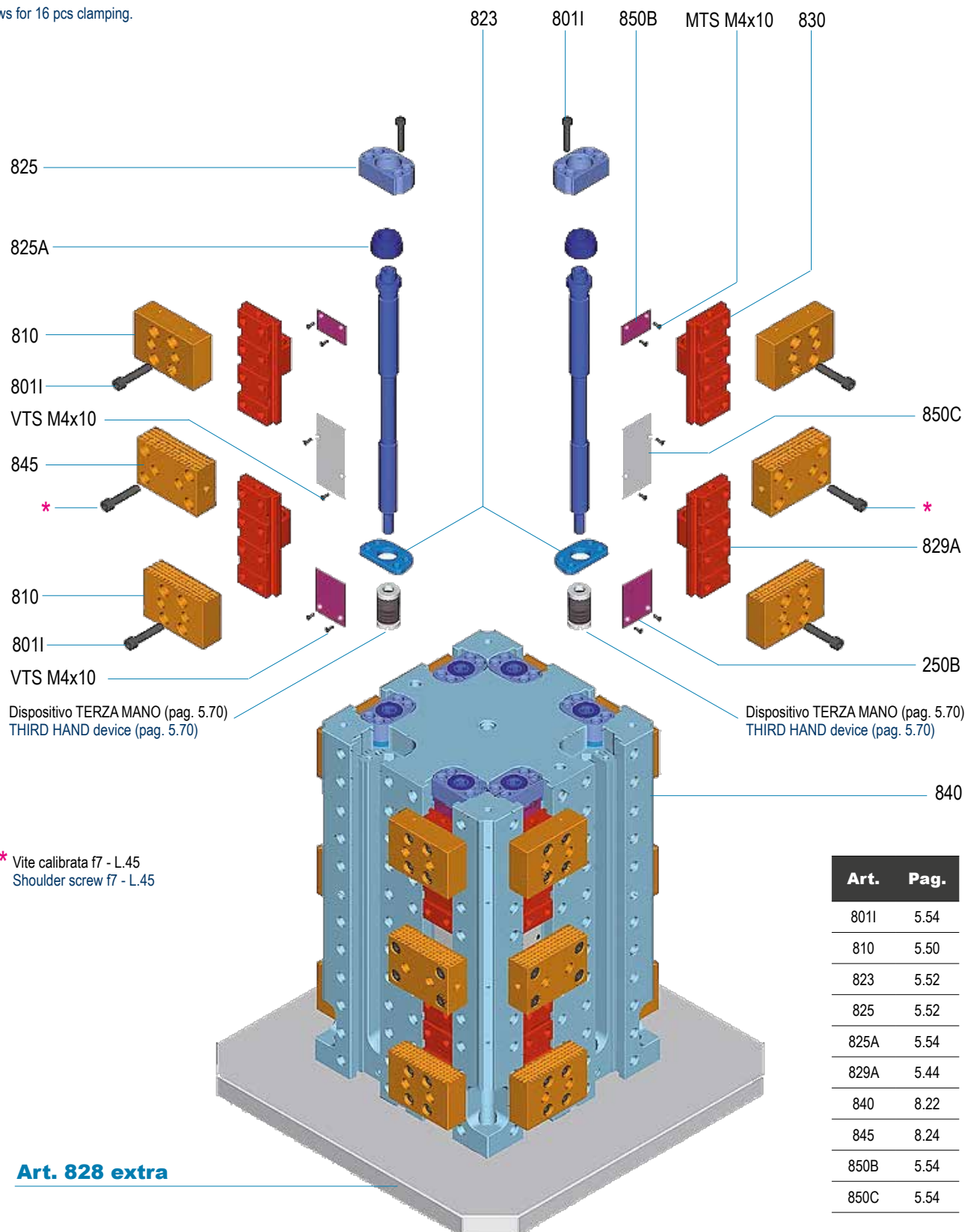
CUBO MODULARE MULTIPLO

MULTI-MODULAR CUBE

Art. 843

Cubo con morse FMS completo di ganasce standard per il bloccaggio di 16 pezzi.

Cube with FMS vises and standard jaws for 16 pcs clamping.



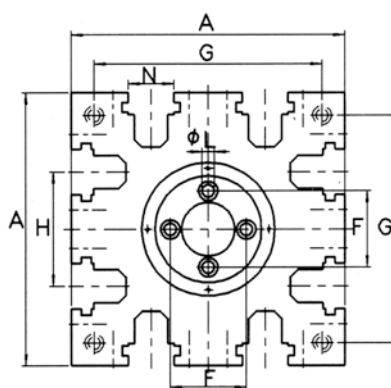
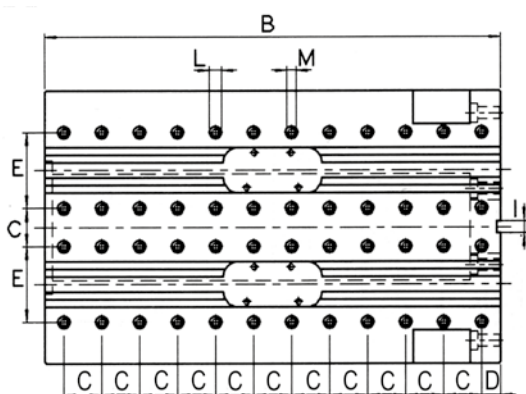
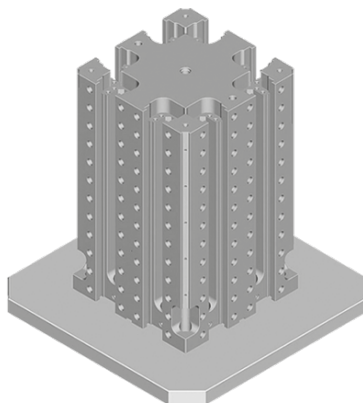
Art. 828 extra

Art.	Pag.
801I	5.54
810	5.50
823	5.52
825	5.52
825A	5.54
829A	5.44
840	8.22
845	8.24
850B	5.54
850C	5.54

Dimensioni mm / Dimensions mm

Art. 840

 Cubo a reticolo - Corpo base
 In ghisa G600

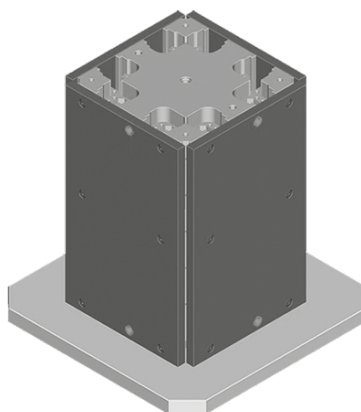
 Grid cube - Base body
 In cast iron G600


> Non sgrossato di fresa - Not rough milled

A $\pm 0,02$	360
B	600
C $\pm 0,02$	50
D $\pm 0,02$	25
E $\pm 0,02$	100
F $\pm 0,02$	100
G $\pm 0,02$	300
H	150
I $H7$	16
L $F7$	16
M	M12
N $\pm 0,02$	41
Ghisa kg Cast iron	335
Cod.	5.84.03600

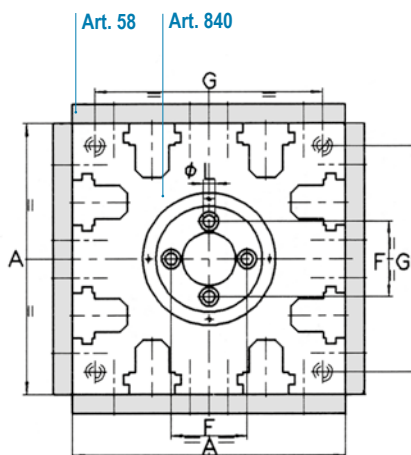
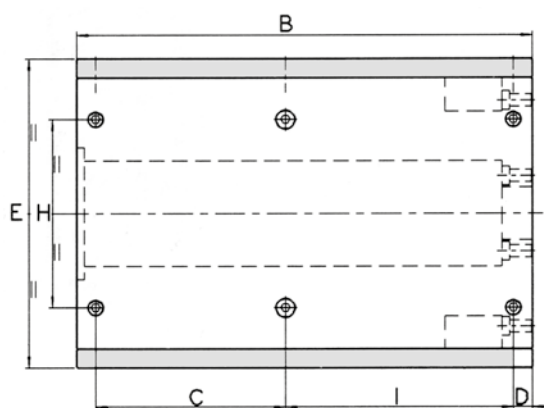
Dimensioni mm / Dimension mm

Art. 841

 Cubo con piastre riportate
 Cube with modular plates

Art. Pag.

58 8.20

840 8.22



A $\pm 0,02$	360
B	600
C $\pm 0,02$	250
D $\pm 0,02$	25
E $\pm 0,02$	410
F $\pm 0,02$	100
G $\pm 0,02$	300
H	250
I $H7$	300
L $F7$	16
M	M12
N $\pm 0,02$	41
Ghisa kg Cast iron	508
Cod.	5.84.13600

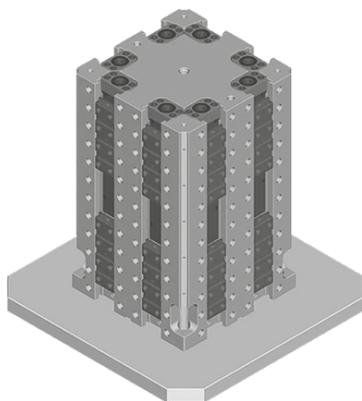
Ogni cubo è completo di 4 piastre riportate (Art. 58) e 2 coppie di tasselli di posizionamento.

Each cube is supplied with 4 modular plate (Art. 58) and 2 pair of key nuts.

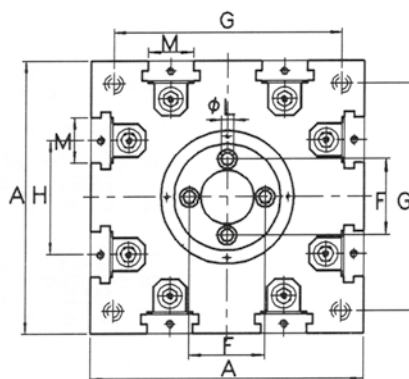
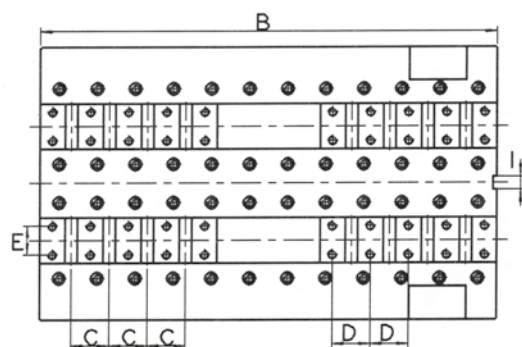
Dimensioni mm / Dimension mm

Art. 842

 Cubo con morse FMS senza ganasce
 per il bloccaggio di **16 pezzi**

 Cube with FMS vises without jaws for
16 pcs clamping

Art. Pag.

822	5.46
829	5.44
830	8.22
840	5.54
850B	
850C	



A $\pm 0,02$	360
B	600
C $\pm 0,02$	50
D $\pm 0,02$	50
E $\pm 0,02$	38
F $\pm 0,02$	100
G $\pm 0,02$	300
H	150
I $H7$	16
L $F7$	16
M	61
N $\pm 0,02$	-
Ghisa kg Cast iron	406
Cod.	5.84.23600

 Ogni cubo è fornito di 8 set completi
 di tutti i particolari interni di una
 morsa FMS (pag. 5-21) e di 2 coppie
 di tasselli di posizionamento

 Each cube is supplied of 8 sets of all
 FMS vise components (pag. 5-21)
 and 2 pair of key nuts.

Art. 842A

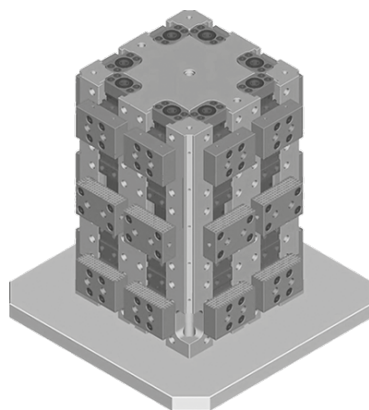
 Una slitta completa (**Art. 822 + Art. 829 + Art. 830**)
 One complete slide (**Art. 822 + Art. 829 + Art. 830**)

Cod. 5.84.2A360

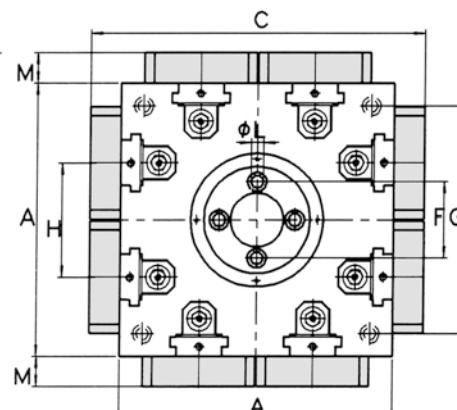
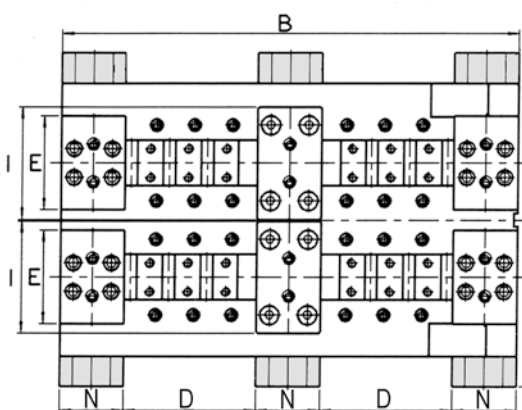
Dimensioni mm / Dimension mm

Art. 843

 Cubo con morse FMS completo di
 ganasce standard per il bloccaggio
 di 16 pezzi. (Vedi dettagli a pag. 8.23)

 Cube with FMS vises and standard
 jaws for 16 pcs clamping.
 (See details pag. 8.23)

Art. Pag.

810	5.50
822	5.46
829	5.44
830	8.22
840	8.24
845	5.54
850B	
850C	



A $\pm 0,02$	360
B	600
C $\pm 0,02$	440
D $\pm 0,02$	174
E $\pm 0,02$	124
F $\pm 0,02$	100
G $\pm 0,02$	300
H	150
I $H7$	148
L $F7$	16
M	40
N $\pm 0,02$	84
Ghisa kg Cast iron	454
Cod.	5.84.33600

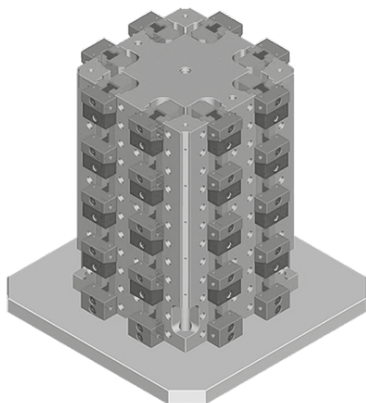
 Ogni cubo è completo di 8 ganasce
 fisse (Art.845) e 16 ganasce mobili
 (Art. 810), 1 chiave a pipa, tasselli di
 posizionamento e 16 arresti laterali.

 Each cube is supplied of 8 fixed jaw
 (Art. 845) and 16 movable jaw (Art.
 810), 1 box wrench, one pair of key
 nuts and 16 workstop.

Dimensioni mm / Dimension mm

Art. 844

 Cubo con morse Multiflex
 per il bloccaggio
 di 32 pezzi e oltre

 Cube with Multiflex vises
 for clamping 32 pcs.
 and over

Art. Pag.

840 8.22

604 6.28

605 6.29

 A $\pm 0,02$ 360

B 600

 C $\pm 0,02$ 75

 D $\pm 0,02$ 50

 E $\pm 0,02$ 70 / 75

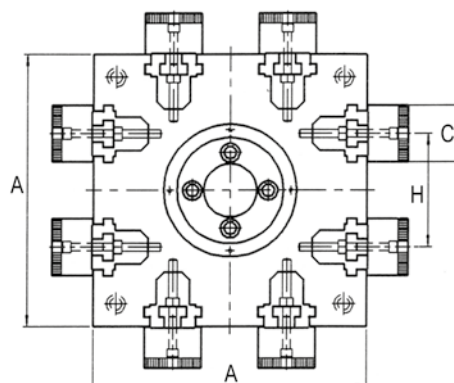
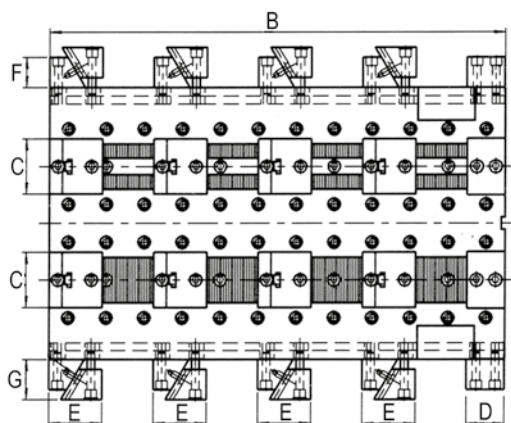
 F $\pm 0,02$ 40

 G $\pm 0,02$ 40 / 33

H 150

Ghisa / Cast iron kg 476

Cod. 5.84.43600


 Ogni cubo è completo di 8 ganasce fisse
 e 32 ganasce fisse-mobili, 1 chiave
 a "T", tasselli di posizionamento e 32
 arresti laterali.

 Each cube is supplied of 8 fixed
 jaw and 32 fixed-movable jaw, 1 "T"
 wrench, one pair of key nuts and 32
 workshop.

Art. 844A

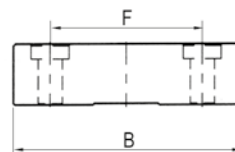
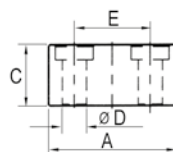
 Una slitta completa (**Art. 846 + Art. 604 + Art. 605**)
 One complete slide (**Art. 846 + Art. 604 + Art. 605**)

Cod. 5.84.4A360

ACCESSORI
ACCESSORIES

Dimensioni mm / Dimension mm

Art. 845

 Ganasca fissa per cubo morse FMS (**Art. 843**)
 Fixed jaw for FMS vise cube (**Art. 843**)

 A $\pm 0,02$ 84

B 148

 C $\pm 0,02$ 140

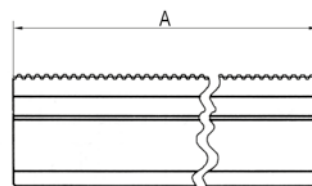
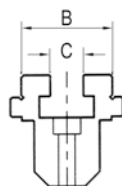
 D $F7$ 16

E 50

F 100

Cod. 5.84.53600

Art. 846

 Guida integrale per cubo MULTIFLEX
 Solid guide for MULTIFLEX cube

 A $\pm 0,02$ 600

 B $\pm 0,02$ 61

 C $\pm 0,02$ 22

Cod. 5.84.63600

SOVRATAVOLE / BASE PLATES				GHISA - CAST IRON G30 ACCIAIO - STEEL METAL Fe420		ALLUMINIO / ALUMINUM AL5083	
Dimensione mm / Dimensions mm	A	C	Kg	Cod.		Kg	Cod.
Art. 60C Piastra base per pallet liscia interfacciata.* Piani rettificati Tailor made smooth pallet base plate. * Two faces ground	400	38	41	8.60.C400404G		16	8.60.C400404AL
			45	8.60.C400404A			
		48	57	8.60.C400405G		23	8.60.C400405AL
	500		63	8.60.C400405A			
		38	63	8.60.C500504G		25	8.60.C500504AL
			70	8.60.C500504A			
	630	48	87	8.60.C630634G		35	8.60.C630634AL
			97	8.60.C500505A			
		38	103	8.60.C630634G		41	8.60.C630634AL
	800		115	8.60.C630634A			
		48	139	8.60.C630635G		56	8.60.C630635AL
			155	8.60.C630635A			
		38	162	8.60.C800804G		65	8.60.C800804AL
			180	8.60.C800804A			
		48	224	8.60.C800805G		90	8.60.C800805AL
			250	8.60.C800805A			

				GHISA - CAST IRON G30 ACCIAIO - STEEL METAL Fe420		ALLUMINIO / ALUMINUM AL5083	
A	C	Kg	Cod.			Kg	Cod.
400	48	49	8.60.E400400G			20	8.60.E400400AL
		55	8.60.E400400A				
500	48	76	8.60.E500500G			31	8.60.E500500AL
		85	8.60.E500500A				
630	48	121	8.60.E630630G			49	8.60.E630630AL
		135	8.60.E630630A				
800	48	215	8.60.E800800G			86	8.60.E800800AL
		240	8.60.E800800A				

Tolleranza $\pm 0,02$ mm
 ■ Interasse reticolo 40mm = $\varnothing 12$ / M10 ■ Grid pitch 40mm = $\varnothing 12$ / M10
 ■ Interasse reticolo 50mm = $\varnothing 16$ / M12 ■ Grid pitch 50mm = $\varnothing 16$ / M12

				GHISA - CAST IRON G30 ACCIAIO - STEEL METAL Fe420		ALLUMINIO / ALUMINUM AL5083	
A	C	Kg	Cod.			Kg	Cod.
400	48	49	8.60.F400400G			20	8.60.F400400AL
		55	8.60.F400400A				
500	48	76	8.60.F500500G			31	8.60.F500500AL
		85	8.60.F500500A				
630	48	121	8.60.F630630G			49	8.60.F630630AL
		135	8.60.F630630A				
800	48	216	8.60.F800800G			86	8.60.F800800AL
		240	8.60.F800800A				

Tolleranza $\pm 0,02$ mm
 ■ Interasse reticolo 40mm = $\varnothing 12$ / M10 ■ Grid pitch 40mm = $\varnothing 12$ / M10
 ■ Interasse reticolo 50mm = $\varnothing 16$ / M12 ■ Grid pitch 50mm = $\varnothing 16$ / M12

						GHISA - CAST IRON G30 ACCIAIO - STEEL METAL Fe420		ALLUMINIO / ALUMINUM AL5083	
A	C	X	Y	Kg	Cod.			Kg	Cod.
400	73	16	100	81	8.60.G400400G			32	8.60.G400320AL
				90	8.60.G400320A				
500	73	16	100	122	8.60.G500500G			49	8.60.G500500AL
				136	8.60.G500500A				
630	73	16	100	198	8.60.G630630G			79	8.60.G630630AL
				220	8.60.G630630A				
800	73	16	100	323	8.60.G800800G			129	8.60.G800800AL
				360	8.60.G800800A				

In caso di ordine specificare le quote X e Y
 Order must include X and Y dimensions

SOVRATAVOLE / BASE PLATES				GHISA - CAST IRON G30 ACCIAIO - STEEL METAL Fe420		ALLUMINIO / ALUMINUM AL5083	
Dimensione mm / Dimensions mm	A	C	P	Kg	Cod.	Kg	Cod.
Art. 60i Piastra base liscia con tiranti femmina Art.10A - 10B per cambio rapido ZERO POINT Smooth base plate with female pull-studs Art.10A - 10B for ZERO POINT quick change	400	38	200	41	8.60.14040G	16	8.60.14040AL
				47	8.60.14040A		
	500	38	200 - 250 - 300	63	8.60.15050G	25	8.60.15050AL
				70	8.60.15050A		
	630	38	200 - 250 - 300	103	8.60.16363G	41	8.60.16363AL
				115	8.60.16363A		
	800	38	200 - 300 - 400	162	8.60.18080G	65	8.60.18080AL
				180	8.60.18080A		

In fare d'ordine specificare la quota **P**
 Order must include **P** dimension

						GHISA - CAST IRON G30 ACCIAIO - STEEL METAL Fe420		ALLUMINIO / ALUMINUM AL5083	
A	B	C	P	P1		Kg	Cod.	Kg	Cod.
200	400	38	200	-		22	8.61.12040G	9	8.60.12040AL
						24	8.61.12040A		
200	500	38	200 250 300	-		27	8.61.12050G	11	8.60.12050AL
						30	8.61.12050A		
200	600	38	400	-		33	8.61.12060G	13	8.60.12060AL
						36	8.61.12060A		

In fare d'ordine specificare la quota **P** e **P1**
 Order must include **P** and **P1** dimensions

						GHISA - CAST IRON G30 ACCIAIO - STEEL METAL Fe420		ALLUMINIO / ALUMINUM AL5083	
A	B	C	P	P1		Kg	Cod.	Kg	Cod.
400	500	38	200	300		53	8.61.14050G	21	8.60.14050AL
						59	8.61.14050A		
400	600	38	200	400		64	8.61.14060G	26	8.60.14060AL
						71	8.61.14060A		
400	700	38	200	500		73	8.61.14070G	30	8.60.14070AL
						83	8.61.14070A		
400	800	38	200	600		85	8.61.14080G	34	8.60.14080AL
						95	8.61.14080A		

In fare d'ordine specificare la quota **P** e **P1**
 Order must include **P** and **P1** dimensions

						GHISA - CAST IRON G30 ACCIAIO - STEEL METAL Fe420		ALLUMINIO / ALUMINUM AL5083	
A	B	C	P	P1		Kg	Cod.	Kg	Cod.
400	500	38	200	150		53	8.61.14050G	21	8.60.14050AL
						59	8.61.14050A		
500	600	38	200	200		64	8.61.14060G	26	8.60.14060AL
						71	8.61.14060A		
630	700	38	200	250		75	8.61.14070G	30	8.60.14070AL
						83	8.61.14070A		
800	800	38	200	300		85	8.61.14080G	34	8.60.14080AL
						95	8.61.14080A		

In fare d'ordine specificare la quota **P** e **P1**
 Order must include **P** and **P1** dimensions

* In alternativa: applicazione di tiranti maschio Art.11A - Art.11B per cambio rapido ZERO POINT compresi
 As alternative: male pull studs Art.11A - Art.11B for ZERO POINT quick change included

SOVRATAVOLE / BASE PLATES				GHISA - CAST IRON G30 ACCIAIO - STEEL METAL Fe420			ALLUMINIO / ALUMINUM AL5083		
Dimensione mm / Dimensions mm	A	B	C	Kg	Cod.		Kg	Cod.	
Art. 61C Piastra base liscia interfacciata. Piani rettificati Smooth base plate. Faces ground	600	400	38	64	8.61.C600400G		26	8.61.C600400A	
				71	8.61.C600400A				
	600	500	38	80	8.61.C600500G		32	8.61.C600500A	
				89	8.61.C600500A				
	800	400	38	85	8.61.C800400G		34	8.61.C800400A	
				95	8.61.C800400A				
	900	450	38	108	8.61.C900450G		43	8.61.C900450A	
				120	8.61.C900450A				
	1000	500	38	133	8.61.C100500G		54	8.61.C100500A	
				149	8.61.C100500A				

Art. 61E Piastra base a reticolo interfacciata con fori calibrati e filettati integrali Base plate with solid calibrated holes and threads	A	B	C	GHISA - CAST IRON G30 ACCIAIO - STEEL METAL Fe420			ALLUMINIO / ALUMINUM AL5083		
				Kg	Cod.		Kg	Cod.	
	600	400	38	81	8.61.E600400G		32	8.61.E600400AL	
				90	8.61.E600400A				
	600	500	38	101	8.61.E600500G		40	8.61.E600500AL	
				112	8.61.E600500A				
	800	400	38	107	8.61.E800400G		43	8.61.E800400AL	
				119	8.61.E800400A				
	900	450	38	135	8.61.E900450G		54	8.61.E900450AL	
				150	8.61.E900450A				
	1000	500	38	169	8.61.E100500G		68	8.61.E100500AL	
				188	8.61.E100500A				

Tolleranza $\pm 0,02$ mm

■ Interasse reticolo 40mm = Ø 12 / M10

■ Interasse reticolo 50mm = Ø 16 / M12

Tolerance $\pm 0,02$ mm

■ Grid pitch 40mm = Ø 12 / M10

■ Grid pitch 50mm = Ø 16 / M12

Art. 61F NEW! Piastra base a reticolo interfacciata con bussole di centraggio temperate 100Cr6 e filetti riportati in acciaio inox Grid type pallet base plate with hardened bushings 100Cr6 and inox steel elicoils	A	B	C	GHISA - CAST IRON G30 ACCIAIO - STEEL METAL Fe420			ALLUMINIO / ALUMINUM AL5083		
				Kg	Cod.		Kg	Cod.	
	600	400	38	78	8.61.F600400G		31	8.61.F600400A	
				87	8.61.F600400A				
	600	500	38	98	8.61.F600500G		39	8.61.F600500A	
				109	8.61.F600500A				
	800	400	38	105	8.61.F800400G		42	8.61.F800400A	
				117	8.61.F800400A				
	900	450	38	132	8.61.F900450G		53	8.61.F900450A	
				147	8.61.F900450A				
	1000	500	38	166	8.61.F100500G		67	8.61.F100500A	
				185	8.61.F100500A				

Tolleranza $\pm 0,02$ mm

■ Interasse reticolo 40mm = Ø 12 / M10

■ Interasse reticolo 50mm = Ø 16 / M12

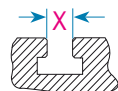
Tolerance $\pm 0,02$ mm

■ Grid pitch 40mm = Ø 12 / M10

■ Grid pitch 50mm = Ø 16 / M12

Art. 61G NEW! Piastra base interfacciata con cave H7 H7 T-slots pallet base plate	A	B	C	X	Y	GHISA - CAST IRON G30 ACCIAIO - STEEL METAL Fe420			ALLUMINIO / ALUMINUM AL5083		
						Kg	Cod.		Kg	Cod.	
	600	400	38	-	-	65	8.61.G600400G		26	8.61.G600400A	
						72	8.61.G600400A				
	600	500	38	-	-	80	8.61.G600500G		32	8.61.G600500A	
						89	8.61.G600500A				
	800	400	38	-	-	86	8.61.G800400G		35	8.61.G800400A	
						96	8.61.G800400A				
	900	450	38	-	-	109	8.61.G900450G		44	8.61.G900450A	
						121	8.61.G900450A				
	1000	500	38	-	-	137	8.61.G100500G		55	8.61.G100500A	
						152	8.61.G100500A				

In caso di ordine specificare le quote X e Y
Order must include X and Y dimensions



SOVRATAVOLE BASE PLATES						ACCIAIO - STEEL METAL Fe420		
Dimensione mm / Dimensions mm						Kg	Cod.	
A	B	C	F	G				
420	230	98	16	70	75	8.86.G420230A		
490	300	98	16	100	105	8.86.G490300A		
630	370	98	16	100	170	8.86.G630370A		
630	630	98	16	100	290	8.86.G630630A		
800	550	98	16	100	320	8.86.G800550A		
800	800	98	16	100	480	8.86.G800800A		
900	410	98	16	100	280	8.86.G900410A		
900	460	98	16	100	310	8.86.G900460A		
1000	550	98	16	100	410	8.86.G1000550A		
1200	550	98	16	100	502	8.86.G1200550A		
1240	550	98	16	100	518	8.86.G1240550A		
1740	750	98	16	100	960	8.86.G1740750A		
900	400	68	16	100	201	8.86.G900400A		
1000	400	68	16	100	224	8.86.G1000400A		
1100	400	68	16	100	245	8.86.G1100400A		
1200	380	78	16	100	262	8.86.G1200380A		
1600	380	78	16	100	389	8.86.G1600380A		
2000	380	78	16	100	437	8.86.G2000380A		
800	500	68	16	100	224	8.86.G800500A		
900	500	68	16	100	252	8.86.G900500A		
1000	500	68	16	100	280	8.86.G1000500A		
1100	500	68	16	100	308	8.86.G1100500A		
1200	500	68	16	100	336	8.86.G1200500A		
1400	500	68	16	100	392	8.86.G1400500A		

SOVRATAVOLE BASE PLATES						ACCIAIO - STEEL METAL Fe420		
Dimensione mm / Dimensions mm						Kg	Cod.	
A	B	C ^{H7}	D	G				
400	125	14	140	50	46	8.94.400125		
600	125	14	140	50	68	8.94.600125		
800	125	14	140	50	92	8.94.800125		
1000	125	14	140	50	114	8.94.1000125		

Materiale: acciaio cementato e temprato 55HRC ± 2
 Material: case-hardened steel 55HRC ± 2

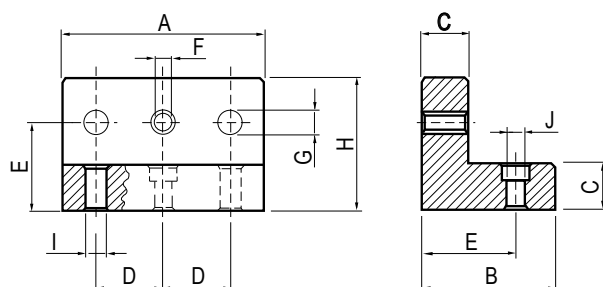
! Per lavorazioni o materiali diversi (alluminio), richiedere quotazione specifica - For different finishing and materials (aluminium), ask for specific quotation

ELEMENTI MODULARI MODULAR ELEMENTS

Dimensione mm / Dimensions mm

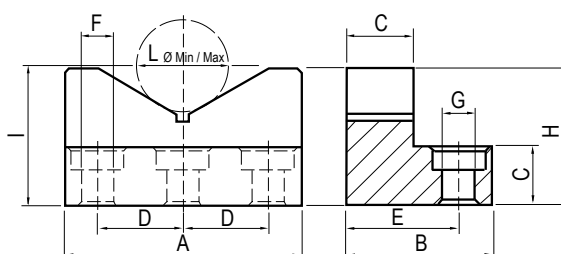
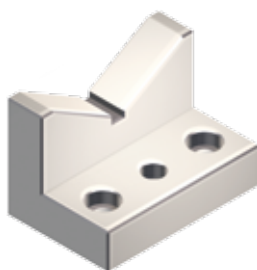
Cod.

Art. 66

 Squadra piccola
 Angle small


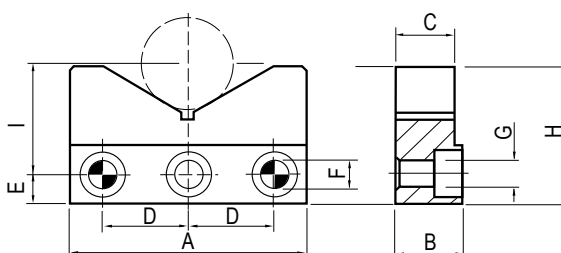
A	B	C	D	E	F	G	H	I	J	kg	Cod.
120	80	30	40	60	M10	12	80	12	11	3,5	8.66.402210
120	100	35	50	70	M12	16	100	16	13	6	8.66.502210

Art. 68

 Squadra a "V"
 V-block


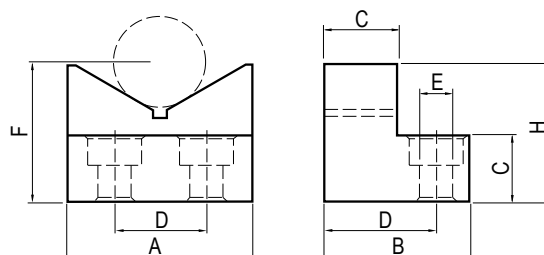
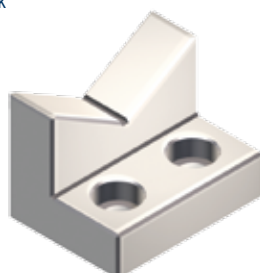
QUOTA "I" RILEVATA CON Ø60 h7 - "I" DIMENSION Ø60 h7

Art. 69

 Piastra a "V"
 V-pad


QUOTA "I" RILEVATA CON Ø60 h7 - "I" DIMENSION Ø60 h7

Art. 69A

 Squadra modulare a "V"
 Modular V-block


QUOTA "I" RILEVATA CON Ø50 h7 - "I" DIMENSION Ø60 h7

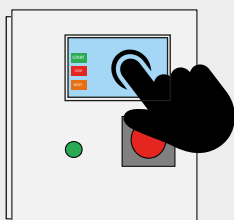
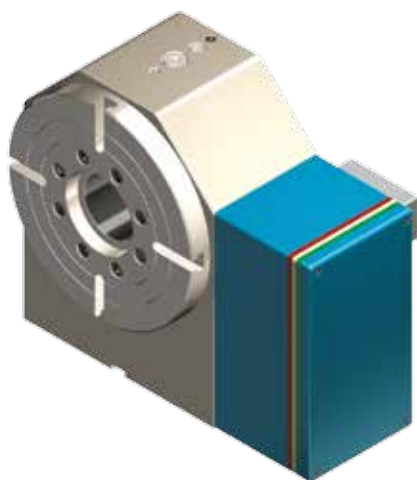
DIVISORE AUTOMATICO DPG 250

AUTOMATIC DIVIDING HEAD DPG 250

NEW!

 Divisore automatico
 Automatic dividing head

 DATI TECNICI
 TECHNICAL DATA

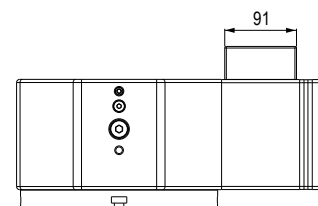
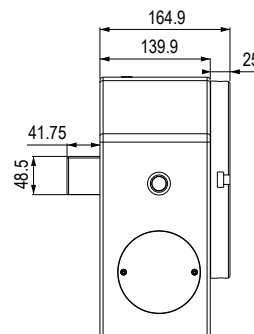
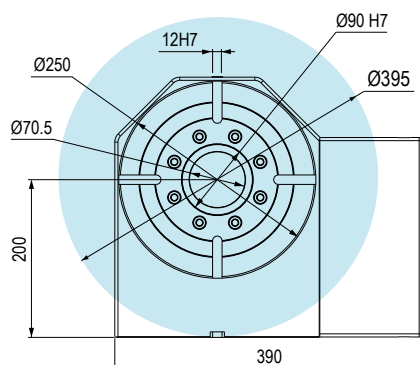
DPG 250

PROGRAMMAZIONE TOUCH SCREEN
 FACILE ED INTUITIVA O TRAMITE COLLEGAMENTO
 DIRETTO AL CNC

EASY AND INTUITIVE TOUCH SCREEN
 PROGRAMMING OR THROUGH DIRECT
 CONNECTION TO THE CNC

- Installazione semplice (alimentazione 220V)
- Corona in bronzo speciale
- Controsupporto semplice
- Vite senza fine in acciaio temprato e rettificato
- Vite e corona in bagno d'olio
- Cuscinetti a vite precaricati
- Cuscinetto anteriore a rulli incrociati sovradimensionato
- Recupero gioco con avvicinamento assiale
- Completa tenuta stagna ai liquidi con possibilità di pressurizzazione
- Possibilità di montare motori di tutte le marche
- Dimensioni esterne contenute
- Finestra di controlli liquidi e condensa
- Lavorazione in posizionamento a 360°

- Easy installation (220V)
- Special bronze crown
- Simple tailstock
- Worm screw in hardened ground steel
- Bath lubrication Screw and Crown
- Pre-loaded screw bearings
- Over-dimensioned crossed-roller front bearing
- Play recover with axial approach
- Watertight seal with possibility of pressurization
- Possibility to mount motors of all brands
- Reduced external dimensions
- Condensation and liquid control window
- 360° work positioning

Diametro del divisore Dividing head diameter	250 mm
Diametro del foro passante Clearance hole diameter	70,5 mm
Altezza punta Center height	200 mm
Dimensione della scanalatura a T T-Slot width	12 mm
Sistema di bloccaggio Clamping system	Idrraulico Hydraulic
Forza frenante Clamping torque	3000 Nm
Motore Servo motor	3000 Max.g/min
Minimo incremento Minimum increment	0,002
Velocità di rotazione Rotation speed	33,3 Giri/min
Rapporti vite/corona Speed reduction ratio (screw/gear)	1/90
Rapporti vite/motore Speed reduction ratio (screw/motor)	1/180
Precisione Indexing accuracy	±10 Sec.
Ripetibilità Repeatability	4 Sec.
Max. carico di lavoro sul divisore Max. allowable work weight on the dividing head	Verticale Vertical Orizzontale Horizontal   Kg.550 Kg.1500
Max. carico di spinta applicabile sul divisore Max. allowable tool load on the dividing head	  N 25000 FxL Nm 1000
Rapporti vite/corona Speed reduction ratio (screw/gear)	Verticale Vertical  10,5 Kg. m²
Coppia in lavoro Driving torque	Corona dentata Worm gear  698 Nm
Kg	110
Cod.	8.DP.G2500

DPG 250


DIVISORE MECCANICO DIVIGER 205 MECHANICAL DIVIDING HEAD DIVIGER 205

NEW!

Divisore meccanico
Mechanical dividing head

DATI TECNICI
TECHNICAL DATA

DIVIGER 205



Diametro del divisore
Dividing head diameter 220 mm

Diametro del foro passante
Clearance hole diameter 85 mm

Altezza centrale
Center height 200 mm

Dimensione della scanalatura a T
T-Slot width -

Sistema di bloccaggio
Clamping system Meccanico
Mechanical

Minimo incremento
Minimum increment 1°

Precisione
Indexing accuracy ±10 Sec.

Coppia in lavoro
Driving torque 3000 Nm

Kg 93

Cod. 7.66.73000

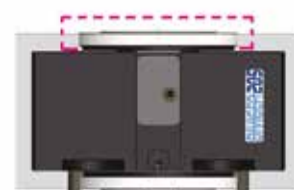
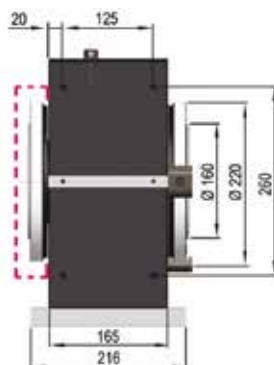
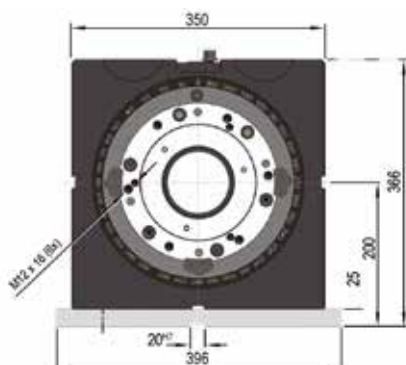
DIVISORE MECCANICO, SENZA CAVI O IDRAULICA,
PERMACCHINE A CNC

MECHANICAL DIVIDING HEAD, WITHOUT ELECTRICAL CABLES OR
HYDRAULIC, FOR CNC MILLING MACHINE

- Maggiore efficienza nella lavorazione su più lati
- Completamente autonomo dalla macchina
- Elevato momento torcente
- Divisione manuale o automatica tramite mandrino macchina
- 360 posizioni
- Serraggio simultaneo di due particolari grazie alla doppia flangia
- lavorazione su 5 facce senza contropunta
- Lavorazione a barra grazie al mandrino cavo
- Utilizzabile orizzontalmente o verticalmente
- Cambio tramite serraggio a cuneo
- Cost-effective on multiple-sides machining
- Machine independent
- High holding torque
- Dividing manually or automatically using the machine spindle
- 360 x 1° division
- Simultaneous clamping of 2 workpieces thanks to the dual flange
- 5 faces machining without counter-holder
- Bar machining due to hollow spindle
- To be used horizontally or vertically
- Quick change through wedge clamping

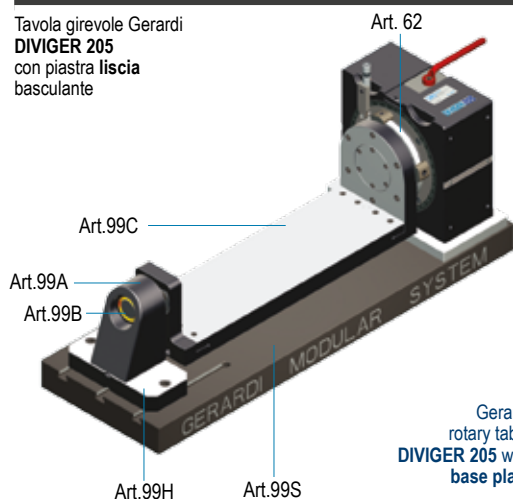


DIVIGER 205



Tipo (grandezza) morsa / Vise (type) size

Tavola girevole Gerardi
DIVIGER 205
con piastra liscia
basculante



Art. 62

Art. 99C

Art. 99A

Art. 99B

Art. 99H

Art. 99S

Gerardi
rotary table
DIVIGER 205 with
base plate

Versione		C	D	E	F	G	P
500	Cod.	8.DI.V205C5	8.DI.V205D5	8.DI.V205E5	8.DI.V205F5	8.DI.V205G5	8.DI.V205P5
600	Cod.	8.DI.V205C6	8.DI.V205D6	8.DI.V205E6	8.DI.V205F6	8.DI.V205G6	8.DI.V205P6
700	Cod.	8.DI.V205C7	8.DI.V205D7	8.DI.V205E7	8.DI.V205F7	8.DI.V205G7	8.DI.V205P7
800	Cod.	8.DI.V205C8	8.DI.V205D8	8.DI.V205E8	8.DI.V205F8	8.DI.V205G8	8.DI.V205P8
1000	Cod.	8.DI.V205C1	8.DI.V205D1	8.DI.V205E1	8.DI.V205F1	8.DI.V205G1	8.DI.V205P1

AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI ! - UPGRADE YOUR APPLICATIONS THROUGH MODULAR ACCESSORIES !

Art. 99A

Supporto
Support



Cod.

8.99.A2000

Art. 99B

Perno di centraggio orizzontale
Horizontal centering pin



Cod.

8.99.B1000

Art. 99H

Distanziale
Spacer

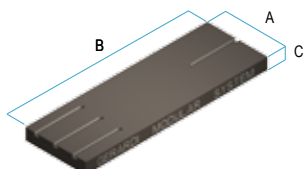


Cod.

8.99.H2000

Art. 99S

Piastra base con cave
Piani rettificati
Base plate with slot
Faces ground



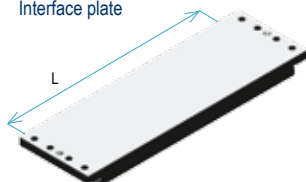
Dimensioni B mm / Dimension B mm	A	C	Kg	Cod.
600	400	50	94	7.99.S060S
900	400	50	141	7.99.S090S
1200	400	50	188	7.99.S120S
1500	400	50	234	7.99.S150S

Cave o fori calibrati su richiesta
Slot or calibrated holes on request

Disponibili quote "B" a step di 50mm - Available dimension "B" in steps of 50mm

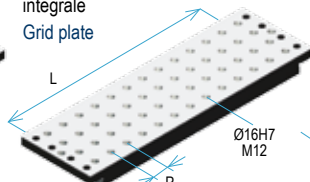
Art. 99C

Piastra liscia
Interface plate



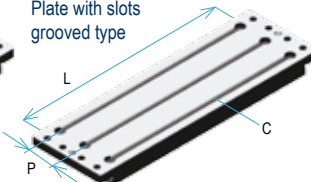
Art. 99F

Piastra a reticolo
integrale
Grid plate



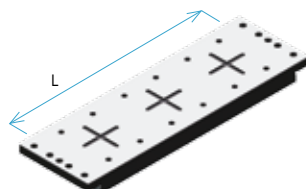
Art. 99G

Piastra con cave
Plate with slots
grooved type



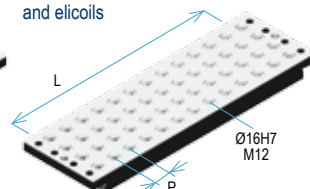
Art. 99D

Piastra personalizzata
Personalized plate



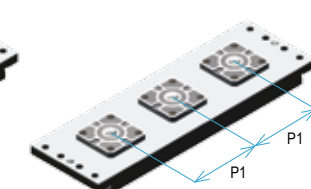
Art. 99E

Piastra a reticolo con bussole e
filetti riportati
Grind plate with bushings
and elicoils



Art. 99P

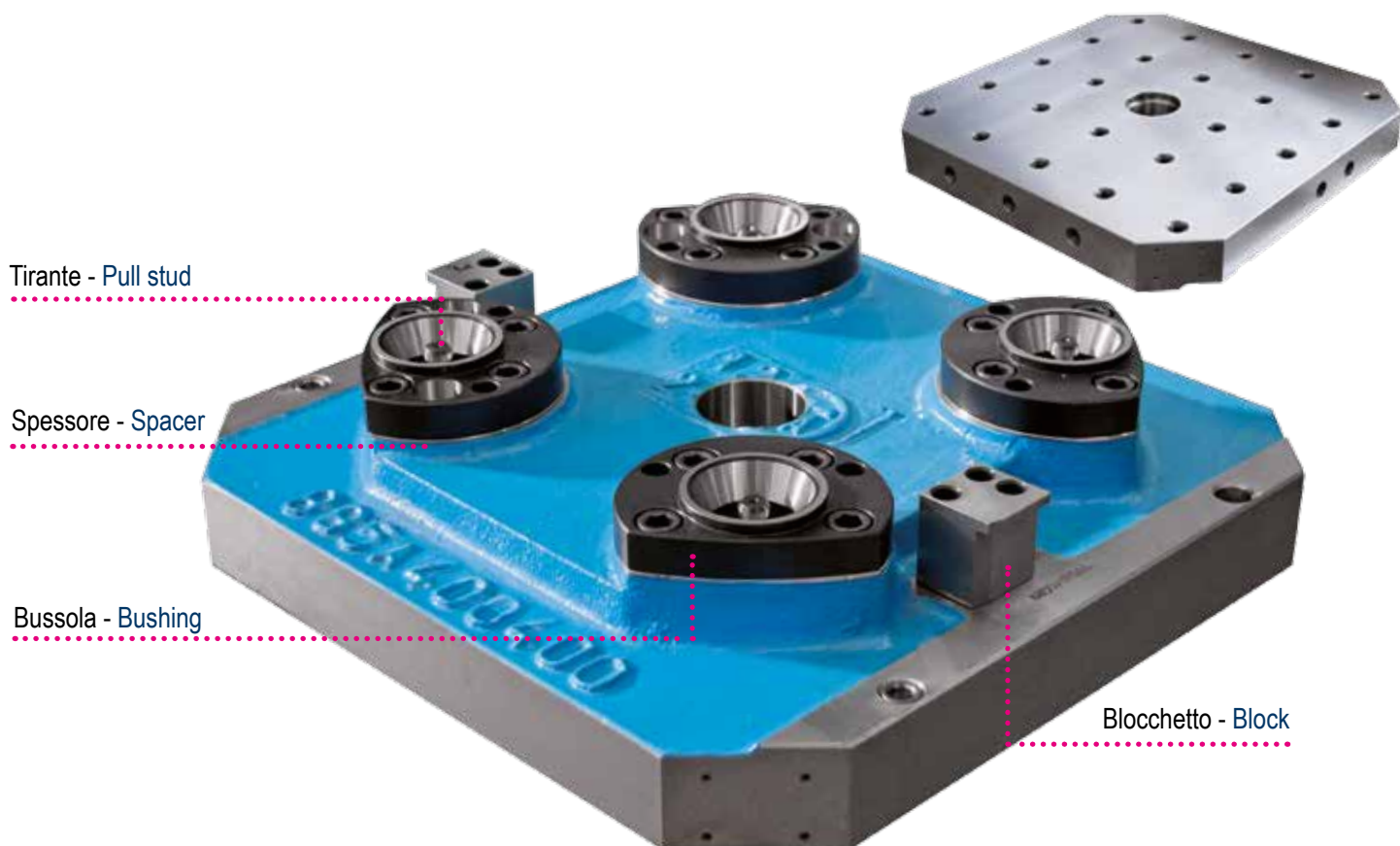
Piastra con zero point
Zero point plate



Tipo Types	L (mm)	P (mm)	C (mm)	P1 (mm)
99C	300	-	-	-
99F	350 400	50	-	-
99G	450 500 550	Su richiesta On request	Su richiesta On request	-
99D	600 650	-	-	-
99E	700 750	50	-	-
99P	800	150 - 200 250 - 300	-	100 - 150 200

IL MIGLIOR PALLET PER IL TUO CENTRO DI LAVORO THE BEST PALLET FOR YOUR MACHINING CENTRE

Ghisa monoblocco G30 stabilizzata con doppio trattamento di distensione. Massima precisione.
Solid cast iron cast G30 with double stress heat treatment, highest accuracy.



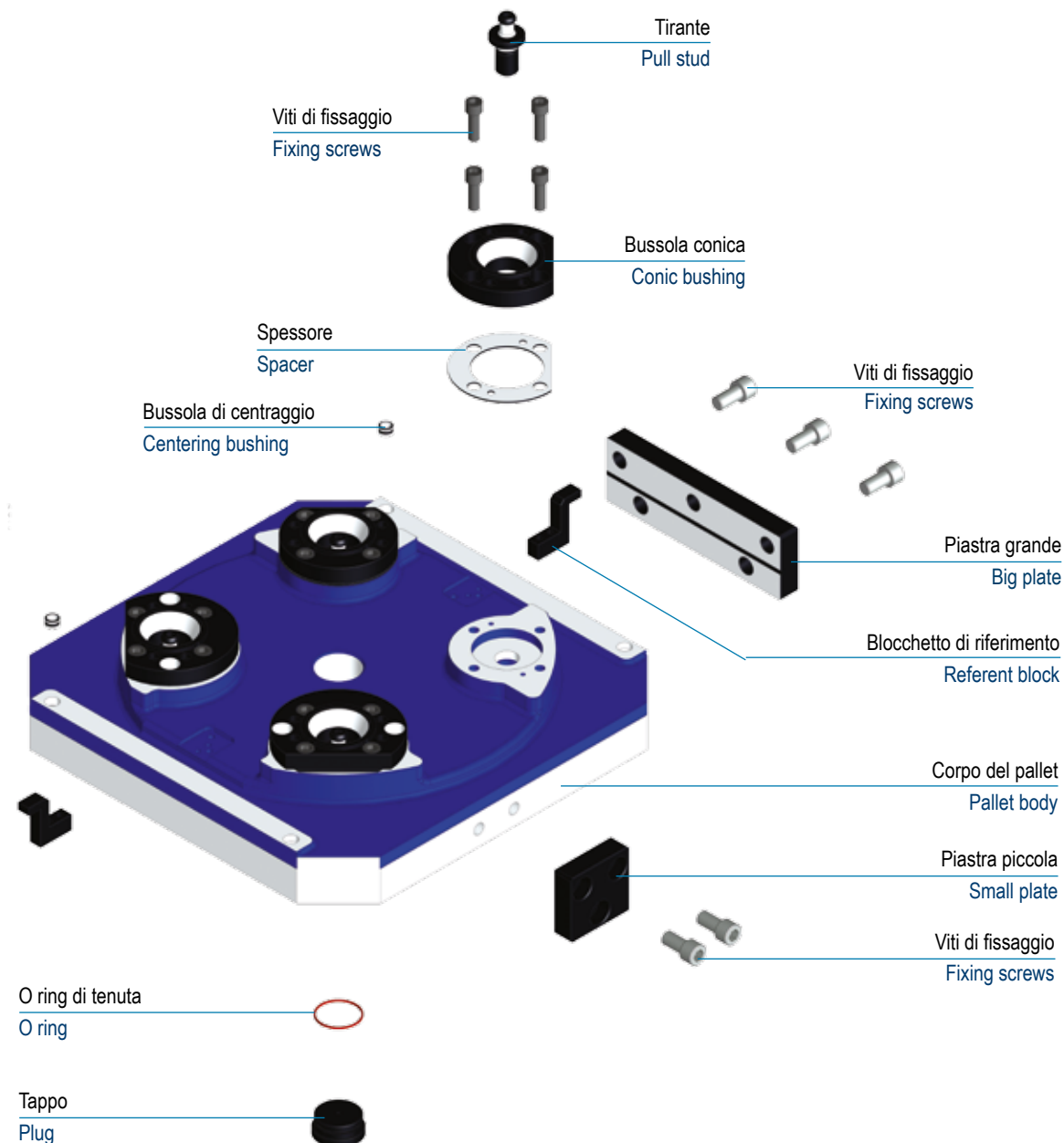
Verifiche tridimensionali tramite
macchine di misura a controllo numerico
Inspection with 3D CNC measuring machines



ACCESSORI E PARTI DI RICAMBIO SPARE PARTS AND ACCESSORIES

Tutti gli accessori sono forniti completamente temprati e rettificati.
TUTTI I COMPONENTI SONO COMPRESI NEL PREZZO

**All accessories are supplied completely hardened and ground HRC60.
PRICE ALL INCLUSIVE**



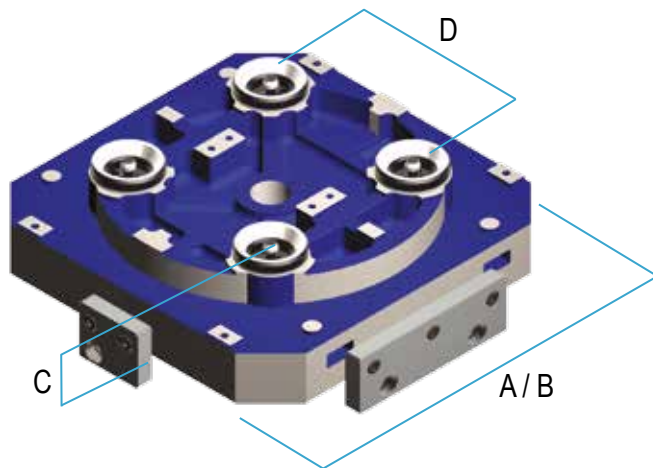
**SISTEMA DI PALLETIZZAZIONE
UNIVERSALE A CAMBIO RAPIDO**
Zero Point applicati a pallet per centri di lavoro

**QUICK CHANGE UNIVERSAL
CLAMPING PALLET SYSTEM**
Zero Point assembled on machining centres pallet

PALLET MAKINO MAKINO PALLET

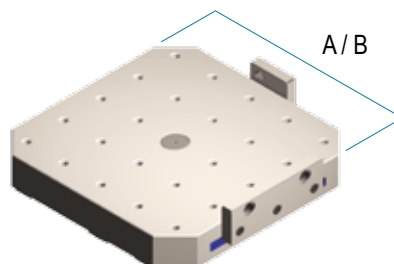


Ghisa monoblocco **G30** stabilizzata con doppio trattamento di distensione.
Massima precisione
Solid cast iron cast G30 with double stress relieving heat treatment.
Highest accuracy



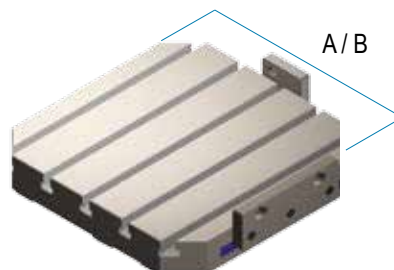
Art. 85

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



Art. 86

Pallet con cave a T H7
H7 T slots pallet



AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !



Art. 85E

Piastra grande
Big plate

Cod. 8.85.E....MAK*



Art. 85F

Piastra piccola
Small plate

Cod. 8.85.F....MAK*



*Esempio ordine: per art. 85F montato su pallet 500x500 il codice è: 8.85.F5050MAK / *Order example: for Art. 85F mounted on 500x500 pallet the code is: 8.85.F5050MAK

DIMENSIONI PALLET / PALLET DIMENSION

A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
400	400	115	200	500	500	115	200	500	500	138	240	630	630	168	300	800	800	168	400

MODELLI DI MACCHINE / MACHINE MODELS

A51NX - A51 - A55	A55E - A66	A61NX - A71 - A61 A66E - A77E - A66	A81 - A81M - A82 - A88 A88E A77 - A82M - A81NX	A99E
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Art 85

Cod. 8.85.4040MAK	Cod. 8.85.5050MAK/200	Cod. 8.85.5050MAK	Cod. 8.85.6363MAK	Cod. 8.85.8080MAK
-------------------	-----------------------	-------------------	-------------------	-------------------

Art 86

Cod. 8.86.4040MAK	Cod. 8.86.5050MAK/200	Cod. 8.86.5050MAK	Cod. 8.86.6363MAK	Cod. 8.86.8080MAK
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PALLET OKUMA OKUMA PALLET

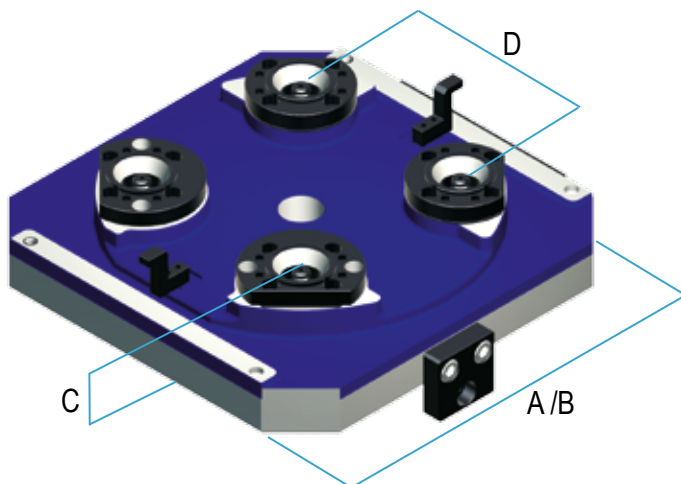


Ghisa monoblocco **G30** stabilizzata con doppio trattamento di distensione.

Massima precisione

Solid cast iron cast G30 with double stress relieving heat treatment.

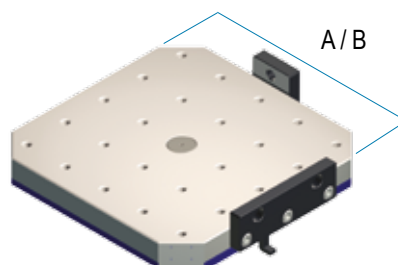
Highest accuracy



Art. 85

Pallet a reticolo con fori integrali M16

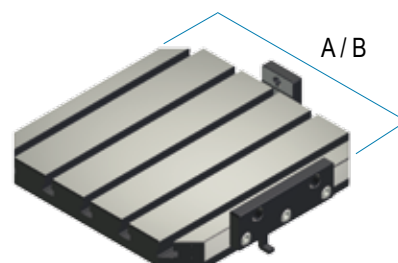
Grid type pallet with solid threads M16



Art. 86

Pallet con cave a T H7

H7 T slots pallet

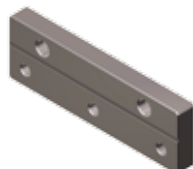


UPGRADE YOUR APPLICATION THROUGH MODULAR ACCESSORIES !

Art. 85E

Piastra grande
Big plate

Cod. 8.85.E....OKU*



Art. 85H

Blocchetto di riferimento
Referent block

Cod. 8.85.H....OKU



Art. 85F

Piastra piccola
Small plate

Cod. 8.85.F....OKU*



*Esempio ordine: per art. 85F montato su pallet 500x500 il codice è: 8.85.F5050OKU / *Order example: for Art. 85F mounted on 500x500 pallet the code is: 8.85.F5050OKU

DIMENSIONI PALLET / PALLET DIMENSION

A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
400	400	95	200	500	500	118	240	630	630	112	320	800	800	146	400	1000	1000	-	-

MODELLI DI MACCHINE / MACHINE MODELS

MA 400 HA - MB 4000 H MA 40 H	MA 500 H II - MB 5000 H MA 50	MA 600 H II - MA 60 H	MA 800 HB	MB 10000 H
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Art 85

Cod. 8.85.4040OKU	Cod. 8.85.5050OKU	Cod. 8.85.6363OKU	Cod. 8.85.8080OKU	Cod. 8.85.1010OKU
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Art 86

Cod. 8.86.4040OKU	Cod. 8.86.5050OKU	Cod. 8.86.6363OKU	Cod. 8.86.8080OKU	Cod. 8.86.1010OKU
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PALLET DMG-MORI DMG-MORI PALLET

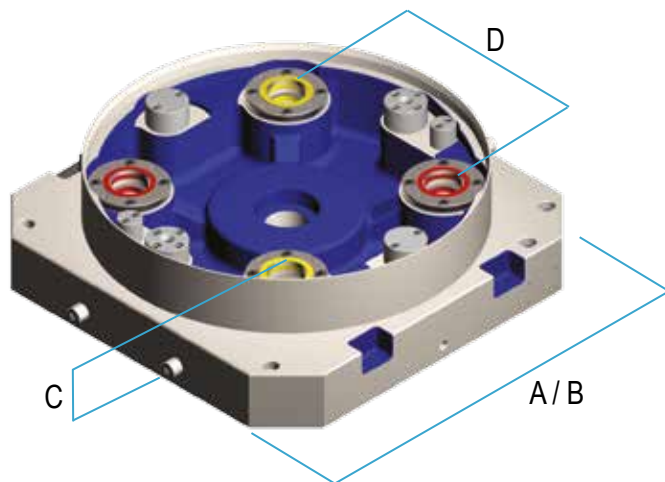


Ghisa monoblocco **G30** stabilizzata con doppio trattamento di distensione.

Massima precisione

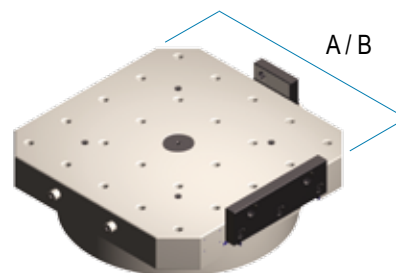
Solid cast iron cast G30 with double stress relieving heat treatment.

Highest accuracy



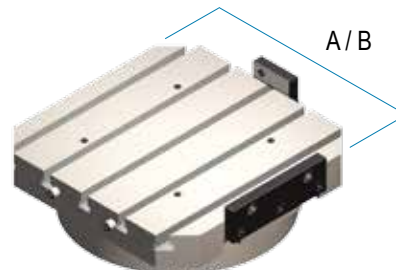
Art. 85

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



Art. 86

Pallet con cave a T H7
H7 T slots pallet



AMPLIA LE TUE APPLICAZIONI TRAMITE GLI ACCESSORI MODULARI !



Art. 85E

Piastra grande
Big plate

Cod. 8.85.E....MOR*



Art. 85F

Piastra piccola
Small plate

Cod. 8.85.F....MOR*



*Esempio ordine: per art. 85F montato su pallet 500x500 il codice è: 8.85.F5050MOR / *Order example: for Art. 85F mounted on 500x500 pallet the code is: 8.85.F5050MOR

DIMENSIONI PALLET / PALLET DIMENSION

A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
400	400	86	190	500	500	120	250	630	630	157	300	800	800	215	450	1000	1000	-	-

MODELLI DI MACCHINE / MACHINE MODELS

NHX 4000 2° - NH 4000 DCG	NHX 5000 2° - NHX 5500 NH 5000 DCG/40	NHX 6300 - NH 6300 DCGII DMC 80H douBLOCK DMC 80H linear	NHX 8000 DMC 100H douBLOCK DMC 125H douBLOCK	NHX 10000
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Art 85

Cod. 8.85.4040MOR	Cod. 8.85.5050MOR	Cod. 8.85.6363MOR	Cod. 8.85.8080MOR	Cod. 8.85.1010MOR
-------------------	-------------------	-------------------	-------------------	-------------------

Art 86

Cod. 8.86.4040MOR	Cod. 8.86.5050MOR	Cod. 8.86.6363MOR	Cod. 8.86.8080MOR	Cod. 8.86.1010MOR
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PALLET MAZAK MAZAK PALLET

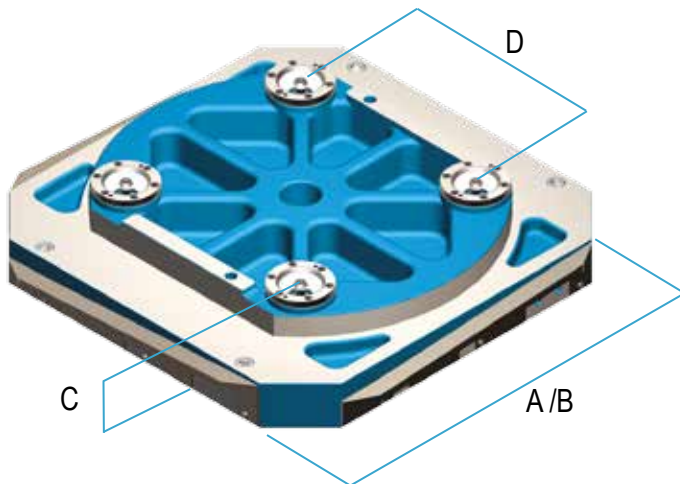


Ghisa monoblocco **G30** stabilizzata con doppio trattamento di distensione.

Massima precisione

Solid cast iron cast G30 with double stress relieving heat treatment.

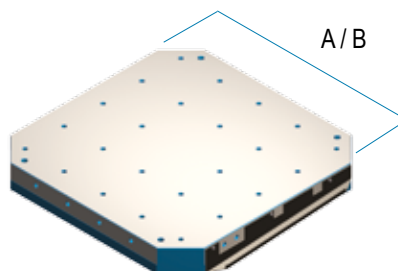
Highest accuracy



Art. 85

Pallet a reticolo con fori integrali M16

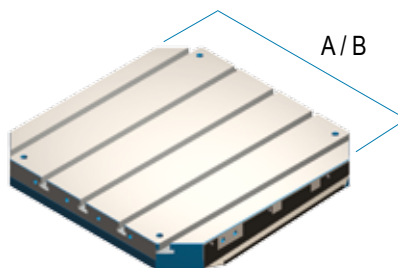
Grid type pallet with solid threads M16



Art. 86

Pallet con cave a T H7

H7 T slots pallet



UPGRADE YOUR APPLICATION THROUGH MODULAR ACCESSORIES !



Art. 85E

Piastra grande
Big plate

Cod. 8.85.E....MAZ*



Art. 85F

Piastra piccola
Small plate

Cod. 8.85.F....MAZ*



*Esempio ordine: per art. 85F montato su pallet 500x500 il codice è: 8.85.F5050MAZ / *Order example: for Art. 85F mounted on 500x500 pallet the code is: 8.85.F5050MAZ

DIMENSIONI PALLET / PALLET DIMENSION

A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D
400	400	-	-	500	500	-	-	630	630	136	320	800	800	167	420	1000	1000	-	-

MODELLI DI MACCHINE / MACHINE MODELS

HCN 4000 - NEXUS 4000III	HCN 5000 - HCN 5000/50 NEXUS 5000III - NEXUS 6000II	HCN 6800 - NEXUS 6800 II 6800 II HM PACKAGE	M 8800 - HCN 8800 NEXUS 8800II - MEGA 8800	M 10800 - HCN 10800 NEXUS 10800II 10800II HM PACKAGE
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Art 85

Cod. 8.85.4040MAZ	Cod. 8.85.5050MAZ	Cod. 8.85.6363MAZ	Cod. 8.85.8080MAZ	Cod. 8.85.1010MAZ
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Art 86

Cod. 8.86.4040MAZ	Cod. 8.86.5050MAZ	Cod. 8.86.6363MAZ	Cod. 8.86.8080MAZ	Cod. 8.86.1010MAZ
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■ Fase 1 / Step 1

Corpo Pallet grezzo
Rough pallet body



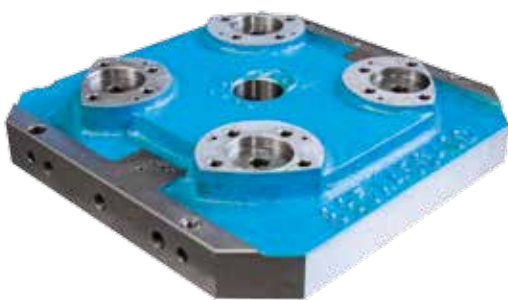
■ Fase 2 / Step 2

Corpo Pallet semi lavorato
Semifinished machine pallet body



■ Fase 3 / Step 3

Corpo pallet finito completamente lavorato e verniciato
Machine pallet body finished completely machined and painted



■ Fase 4 / Step 4

Pallet finito completo di tiranti, bussole e distanziali
Finished pallet complete with pull studs, bushings and spacers

