



teste ad angolo  
angle heads

**HEAVY  
DUTY**

Un prodotto fondamentale che grazie alla riduzione dei piazzamenti in lavorazione, vanta un contributo prezioso per l'aumento della produttività necessaria per competere su tutti i mercati: parliamo della Testa ad Angolo, da considerare come parte integrante del parco utensili della macchina.

- **Esperienza** - E' dall'inizio degli anni '60 che O.M.G. crea prodotti. L'esperienza non si acquista, si acquisisce. La realizzazione fin dai primi anni di prodotti speciali ha formato le competenze per lo sviluppo di una gamma di Teste ad Angolo articolata e performante, idonea alla clientela più esigente che crede negli investimenti per conquistare nuovi mercati.
- **Tradizione** - Il termine "qualità" viene spesso citato, ma non significa soltanto utilizzare macchine utensili tecnologicamente avanzate per ottenere lavorazioni precise. La qualità è il risultato di esperienze pratiche, di calcoli matematici, di sfide vinte e perse ma comunque accettate, di cui fare grande tesoro.
- **Innovazione** - Le Teste ad Angolo Speciali di ultima generazione offrono prestazioni superiori a tutti gli standard e condizionano spesso la produzione fino al punto da divenire indispensabili nel completamento del processo produttivo. Da queste OMG continua a trarne grande beneficio e soddisfazione con soluzioni tecniche poi riproposte sulle Teste ad Angolo Standard a catalogo.
- **Modularità** - Indispensabile oggi la flessibilità produttiva, ancora maggiore negli investimenti. In questa ottica gli elementi modulari delle Teste ad Angolo consentono di ridurre i costi ed aumentare i benefici.
- **Personalizzazione** - Se l'ampia gamma di Teste ad Angolo standard non risponde all'esigenza specifica, siamo pronti a progettare e costruire il prodotto speciale, forti dell'esperienza di centinaia di soluzioni operative volte alle più svariate attività produttive.

*An ultimate product that gives a valuable contribution to the productivity increase by reducing the management of the pieces to be machined, necessary condition to compete in the markets all over the world: we are talking about the Angle Heads, to be considered an integral part of the machine tools range.*

- **Experience** - O.M.G. engineers its products since the beginning of the '60's. The experience cannot be bought but it is acquired. Since that time the achievement of special products gave us the expertise to develop a range of Angle Heads very broad and performing, suitable to the most demanding customers believing in investments to gain new market shares.
- **Tradition** - The word "quality" is often mentioned, but it does not mean just to use technologically advanced machine tools to get accurate machining. The quality is the result of practical experiences, of mathematical calculations, of won and lost challenges, anyway accepted, which are treasured.
- **Innovation** - The last generation Special Angle Heads offers performances much higher than all standards, and they often affect the production cycles until becoming indispensable when completing production stages. O.M.G. keeps getting beneficial results from his special range which is also reflected into the standard Angle Heads range.
- **Modularity** - Nowadays the productivity flexibility is mandatory, and even more in the investments. Towards this goal the O.M.G. Angle Heads modular system allows cost reductions and to increase profits.
- **Customization** - And if the wide range of standard Angle Heads will not meet your requirements, we are ready to engineer and to manufacture a new Special Angle Head product, always supported by our experience of hundreds of solutions done for many different industrial activities.

# Panoramica prodotti

## Product overview



### TAR

Piccole per piccoli spazi.

*Tiny for narrow spaces.*

Pagina/Page: 4-8



### TA

Lavorazione singola di foratura e fresatura.

*Drilling and milling machining.*

Pagina/Page: 4-16



### TA... D

Input refrigerante attraverso lo stop-block e uscita attraverso il centro utensile.

*Input coolant from stop-block, and output through tool spindle.*

Pagina/Page: 4-36



### TAO

Mandrino offset, lavorazione in spazi ristretti ed ottima performance in fresatura.

*Offset spindle, machining in narrow spaces, and excellent results in milling operations.*

Pagina/Page: 4-46



### TAF

Mandrino fisso, angolo su richiesta del cliente.

*Fixed spindle with custom angle.*

Pagina/Page: 4-70

### Simboli/Icons



Capacità di foratura  
*Drilling capacity*



Pressione  
*Pressure*



Maschiatura  
*Tapping*



Peso  
*Weight*



Rapporto entrata/uscita  
*Ratio input/output*



Carico assiale  
*Axial load*



N° max giri in uscita  
*Max output RPM*

# Panoramica prodotti

## Product overview



### TA... L

Versione allungata per lavorazioni singole di foratura e fresatura.

*Length stretched version for drilling and milling single machining operations.*

Pagina/Page: 4-9



### TA... 2P

Due mandrini contrapposti di 180°.

*180° two opposed spindles.*

Pagina/Page: 4-30



### TAO... PD

Mandrino offset, input refrigerante attraverso il centro cono, uscita attraverso centro utensili con pressione 70 bar.

*Offset spindle, input coolant through machine taper, output through tool spindle at 70 bar pressure.*

Pagina/Page: 4-47



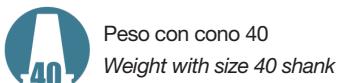
### TAV

Mandrino variabile  $\pm 90^\circ$ .

*$\pm 90^\circ$  adjustable spindle.*

Pagina/Page: 4-56

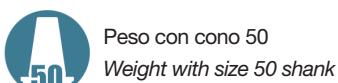
### Simboli/Icons



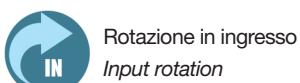
Peso con cono 40  
Weight with size 40 shank



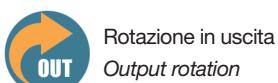
Dual Contact



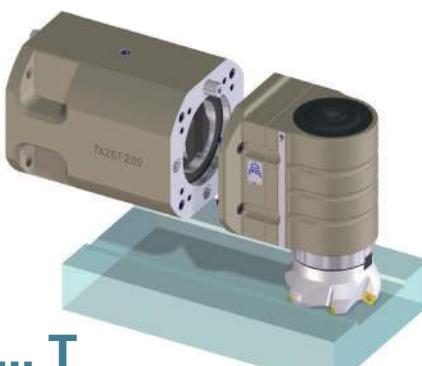
Peso con cono 50  
Weight with size 50 shank



Rotazione in ingresso  
Input rotation



Rotazione in uscita  
Output rotation



### TA... T

Connessione alla macchina tramite flangia.

*To be connected to the machine by flange.*

Pagina/Page: 4-76

FH

BAH

TA.CP

TA

MO

HT

TSI/TSX

T

MT-Tc-TC3

Accessori  
Accessories

Appendice tecnica  
Technical supplement

4-3

# Sistema modulare per applicazioni flessibili

## *Modular system for flexible application*



- 1 Testa ad angolo con presa utensile ER standard, oppure vedi tipi Mandrino.  
*Angle Head with standard ER tool connection, or check other spindle types.*
- 2 Antirotante standard “senza gioco”, oppure su specifico design per la vostra macchina utensile.  
*No backlash standard torque arm, or under specific design for your machine tool.*
- 3 Coni macchina standard o speciali su richiesta.  
*Standard or on-demand machine tapers.*

**Modularità Coni** – Sono disponibili tutti i tipi di coni macchina, da sostituire tramite un esclusivo accoppiamento di precisione che crea un sistema rigido pari ai coni integrali, ma con i pregi dell'intercambiabilità.

**Modularità Antirotanti** – esistono fondamentalmente tre dimensioni unificate di interasse tra il centro cono ed il centro perno antirotante: 65 mm per i cono grandezza 40, 80 mm per i coni grandezza 50 ed in alcuni casi anche 110 mm. Sono disponibili tutte le dimensioni e sostituire il gruppo antirotante è una operazione banale.

**Taper modularity** - All the different machine tapers are available, and can be replaced with an exclusive precision coupling system generating a rigid system equal to integral tapers, but with additional interchangeability quality.

**Torque arm modularity** - Essentially three unified dimensions between taper and torque-arm centers exist: 65 mm for the taper size 40, 80 mm for the taper size 50 and also 110 mm in some cases. All sizes are available and torque-arm replacement is very simple.

# Prese utensili - tipi mandrino

## Clamping systems and spindle types



## Refrigerante utensile Coolant tool



**Il circuito refrigerante è standard** - Tutte le teste sono provviste di canalizzazione interna, che parte dal perno dell'antirottante e termina sull'ugello vicino all'utensile, senza alcun costo aggiuntivo.

**Refrigerante da cono macchina** - La costruzione offset delle Teste ad Angolo serie TAO consente il montaggio di tenute ad alta pressione affidabili nel tempo ed isolate dalle parti vitali della Testa ad Angolo, per un sicuro utilizzo di utensili con passaggio refrigerante interno.

**Coolant system is standard** - All our Angle Heads are supplied with an internal channel system, which starts from the torque-arm pin and ends on the nozzles next to the tool, without additional cost.

**Coolant system from machine taper** - The offset construction of the TAO Angle Head series allows to fit high pressure seals which are time reliable and isolated from the vital parts of the Angle Heads, for a safe usage of tools with internal coolant transit.

# Antirotante Torque arm



STANDARD



TriBlock ®



QuadBlock ®



Studiato e realizzato su  
specifiche richiesta.  
*Customized design according  
to your application.*



Stop-block

Perno conico  
*Conical pin*

**Prestazioni superiori** - L'antirotante standard permette di cambiare la testa in automatico. Il sistema di accoppiamento fra perno conico regolabile assialmente e lo stop-block con sede a "V", permette di annullare la tolleranza tra le parti creando un sistema rigido, senza giochi. Evidenti sono i vantaggi: maggiore durata degli utensili, maggiore durata dei cuscinetti, risparmi in termini di manutenzione con conseguente riduzione dei costi.

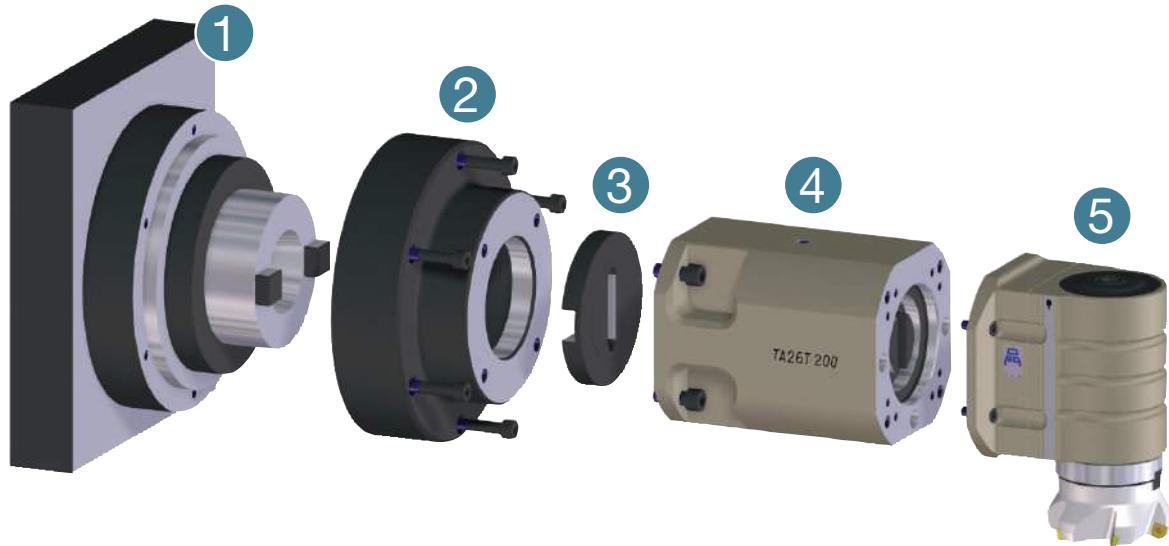
**Massima stabilità** - I sistemi antirottanti **TriBlock** e **QuadBlock** di O.M.G. con perni regolabili permettono di contrastare al meglio le spinte radiali e assiali con la possibilità di affrontare in sicurezza lavorazioni di fresatura o finitura fino a ora mai effettuate con le teste ad angolo, destinate inizialmente a diversi piazzamenti pezzo.

**Higher performances** - The standard torque arm allows an automatic change of the head. The coupling system between the conical pin, which can be axial adjusted, and the "V"-housing of the stop-block, allows to cancel any tolerance between those parts generating a rigid and backlash free system. The advantages are evident: longer life of tools, longer life of bearings, maintenance savings with consequent cost reductions.

**Maximum stability** - The O.M.G. **TriBlock** and **QuadBlock** torque arm systems with adjustable pin allow to oppose both radial and axial thrusts at their best, with the possibility of milling or finishing with total security, which was not possible until nowadays because requiring several changes of placement of the piece to be machined.

# Connessione alla macchina tramite flangia

## Machine connection by flange



			Accessori Accessories
1	Macchina	Machine	
2	Flangia di connessione	Connection flange	
3	Giunto ISO 40/50	Driving joint ISO 40/50	
4	Estensione	Extension	
5	Testa ad angolo TA... T	Angle head TA... T	

# TAR03.P



## caratteristiche/features



ø 3 M3 70 N



1-1.2308 8000

## peso/weight



6,7 kg



9,1 kg

## rotazione/rotation

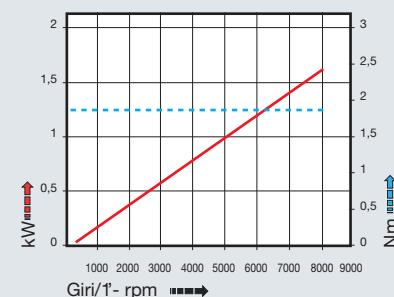


input

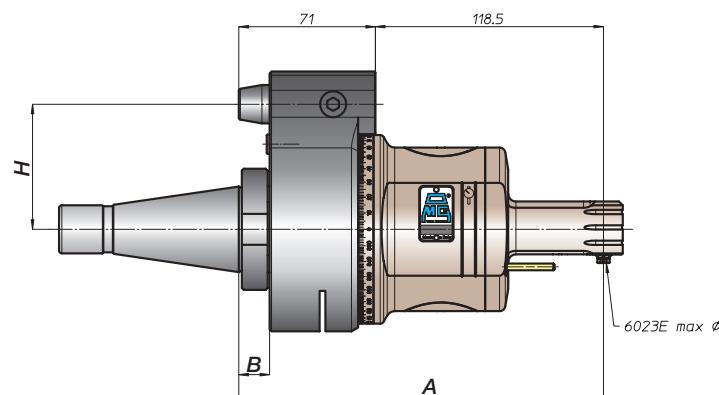
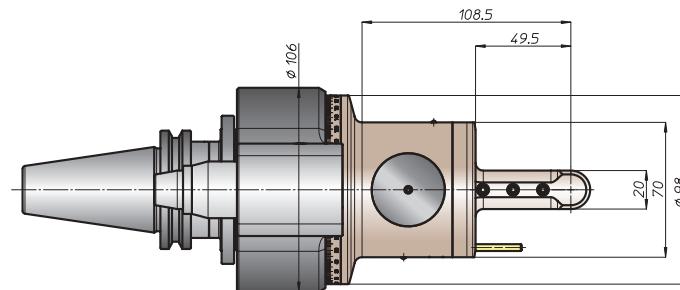
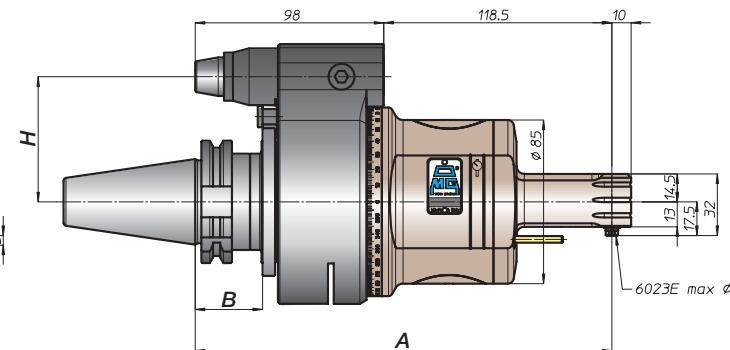
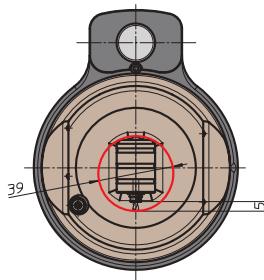


output

## prestazioni/performances



Technical drawings showing dimensions for DIN 69871, ANSI B5.50, BT, HSK, CAPTO, KM, DIN 2080, and ANSI B5.18 shank types.



CONO SHANK	size	A	B	H	Standard	optional
DIN 69871 *	30			65	-	
	40			80	110	
	45					
	50	216,5	35			
ANSI B5.50 *	40			65	-	
	50			80	110	
BT *	40			65		
	50	224,5	45	80	110	
HSK	63			65		
	80	225,5		80	110	
	100		46			
DIN 69893						
CAPTO	C5			65		
	C6			80	110	
	C8	220,5	39			
KM	63			65		
	80	216,5		80	110	
	100					
DIN 2080	-			186,5	13	65
	40			189,5	16	80
	-					110
	50					
ANSI B5.18	40	186,5	13	65	-	
	50	189,5	16	80	110	

\* Option: Dual Contact

# TAR03.PL

## caratteristiche/features



ø 3 M3 70 N



1-1.2308 8000

## peso/weight



6,8 kg



9,2 kg

## rotazione/rotation

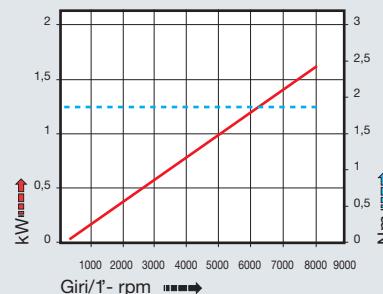


input



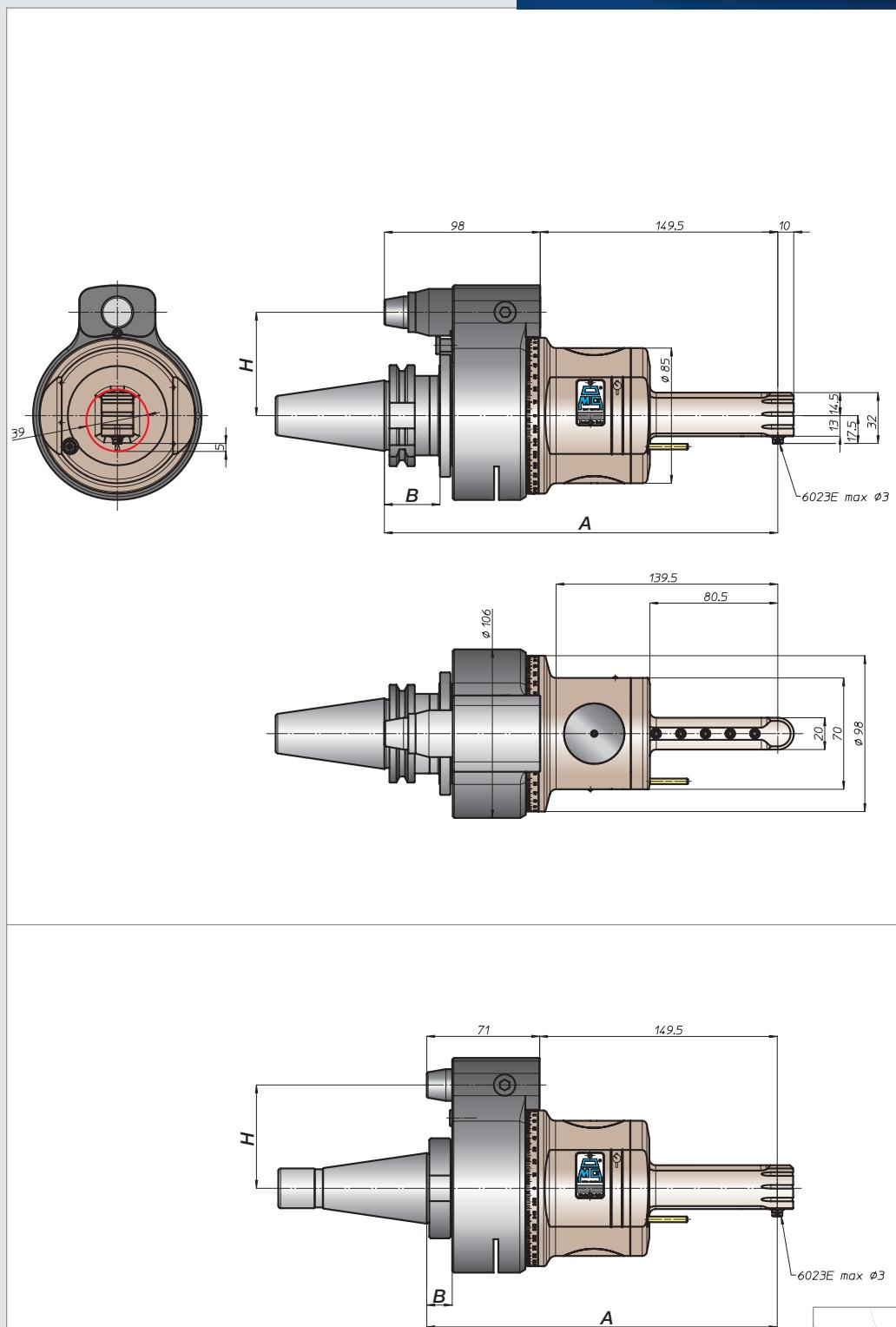
output

## prestazioni/performances



			A	B	standard	H	optional
CONO SHANK	size						
DIN69871 *	30				65		-
	40						
	45						
ANSI B5.50 *	50	247,5		35	80	110	
	40				65		-
	50				80	110	
* BT	40				65		
	50	255,5	45	80	110		
DIN69893	HSK	63					
	80	256,5	44	65			
	100						
ISO26623	CAPTO	C5					
	C6	251,5	39		65		
	C8				80	110	
KM	63				65		
	80	247,5					
	100				80	110	
DIN2080		-					
	40	217,5	13	65		-	
	-	220,5	16	80	110		
NMTB	ANSI B5.18	40	217,5	13	65		-
		50	220,5	16	80	110	

★ Option: Dual Contact



## TARO4.P



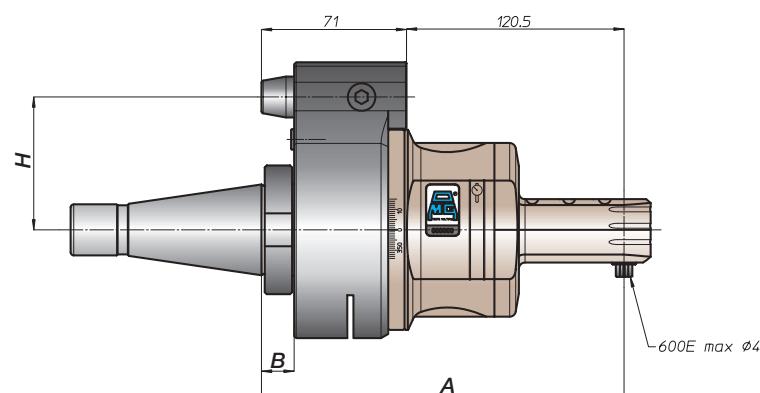
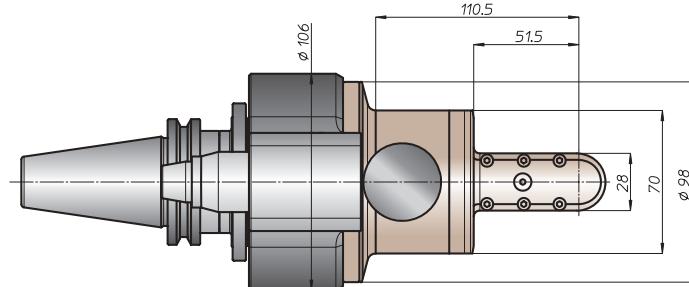
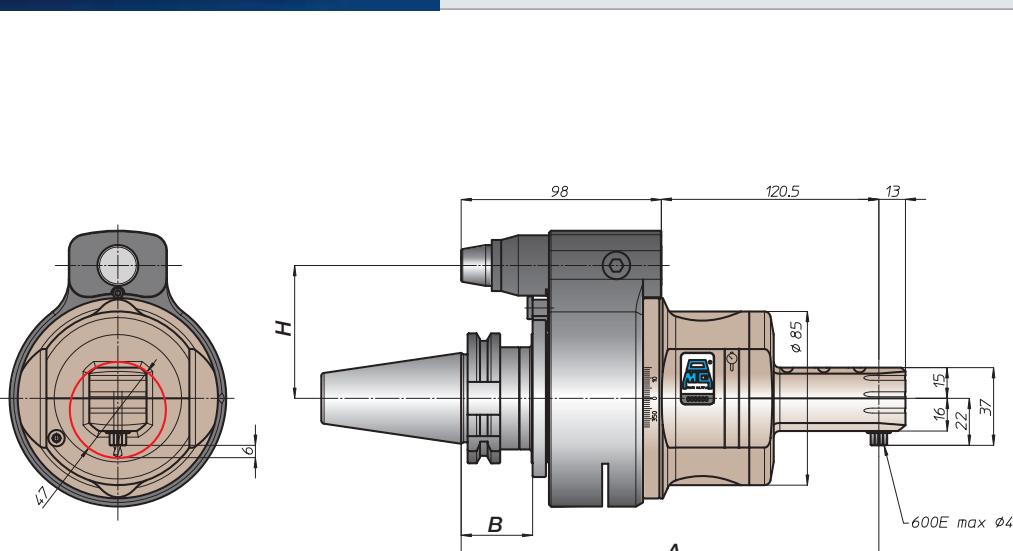
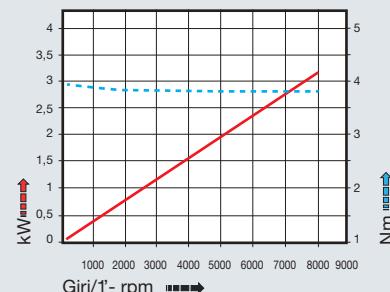
## caratteristiche/features

- 
- 
- 
- ø 4
- M3
- 120 N
- 1-1
- 8000 rpm

## peso/weight

- |      |        |
|------|--------|
|      | 40     |
|      | 50     |
| 7 kg | 9,4 kg |
- rotazione/rotation
- IN → OUT

## prestazioni/performances



CONO SHANK	size	A	B	H	standard	optional
DIN9871 *	30			65	-	
	40			80	110	
	45			65	-	
	50	218,5	35	80	110	
ANSIB5.50 *	40			65	-	
	50			80	110	
BT *	40			65	-	
	50	226,5	45	80	110	
HSK	63			65	-	
	80	227,5	44	80	110	
	100		46	80	110	
DIN69893	C5			65	-	
	C6	222,5	39	80	110	
	C8			65	-	
ISO26623	KM	63		65	-	
	80	218,5	100	80	110	
	100			65	-	
DIN2080	-	188,5	13	65	-	
	40			80	110	
	-	191,5	16	80	110	
	50			65	-	
ANSIB5.18	NMTB	40	188,5	13	65	-
		50	191,5	16	80	110

\* Option: Dual Contact

# TAR04.PL

## caratteristiche/features



ø 4 M3 120 N



1-1 8000

## peso/weight

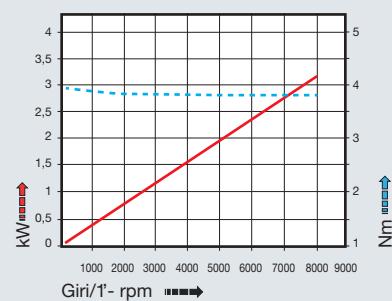


7,1 kg



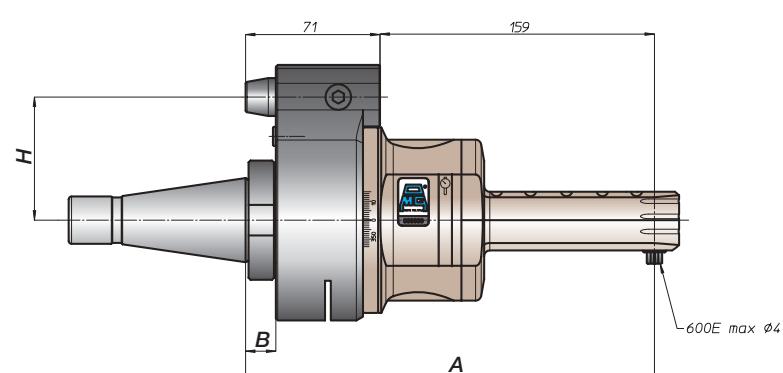
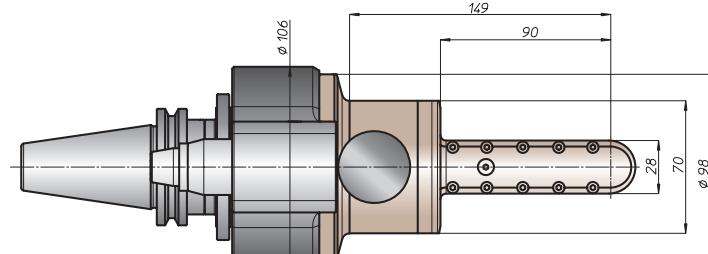
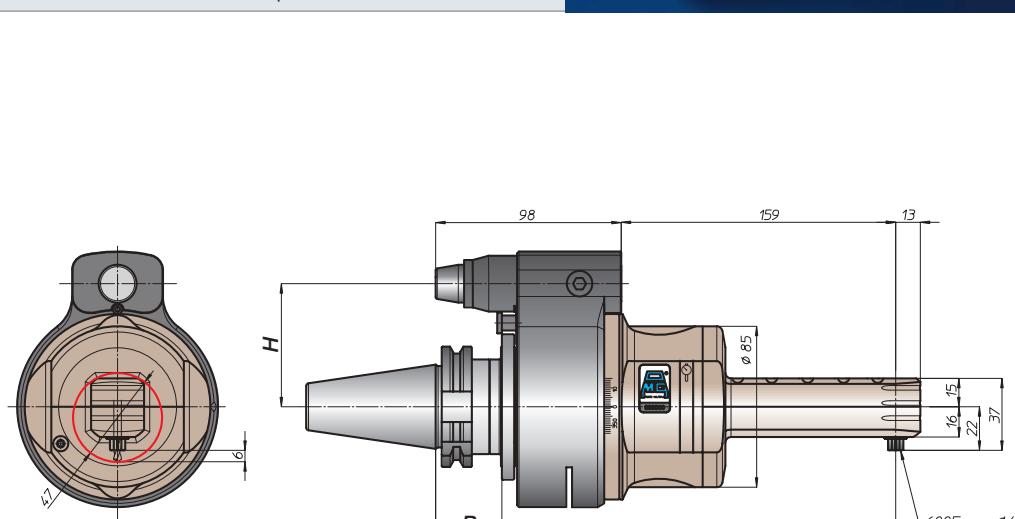
9,5 kg

## prestazioni/performances



CONO SHANK	size	A	B	H	
				standard	optional
DIN69871 *	30	257	35	65	-
	40			80	110
	45			80	110
	50			65	-
ANSIB5.50 *	40	265	45	80	110
	50			65	-
* BT	40	265	45	80	110
	50			65	-
DIN6993	63	266	44	65	
	80		46	80	110
	100				
ISO26623	C5	261	39	65	
	C6				
	C8			80	110
KM	63	257	13	65	
	80			80	110
	100				
DIN2080	-	227	13	65	-
	40				
	-		16	80	110
	50				
ANSIB5.18	40	227	13	65	-
	50	230	16	80	110

★ Option: Dual Contact





# TARO6.P

## caratteristiche/features



ø 6 M5 150 N



1-1 8000

## peso/weight



40 7,2 kg



50 9,6 kg

## rotazione/rotation

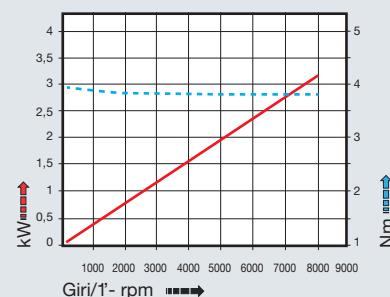


input



output

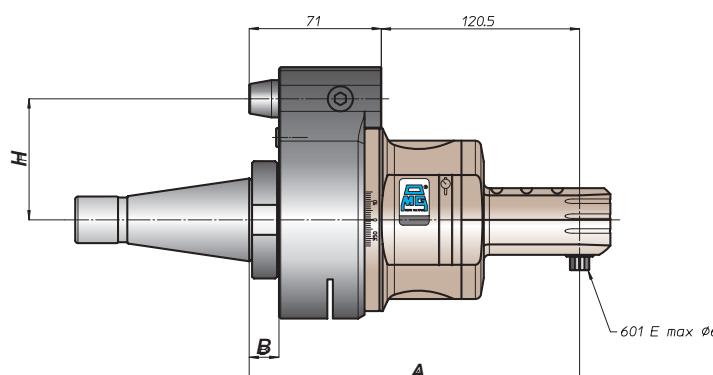
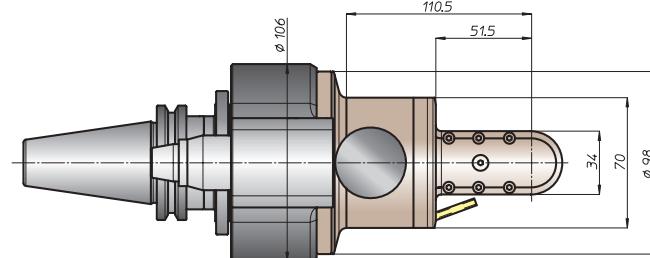
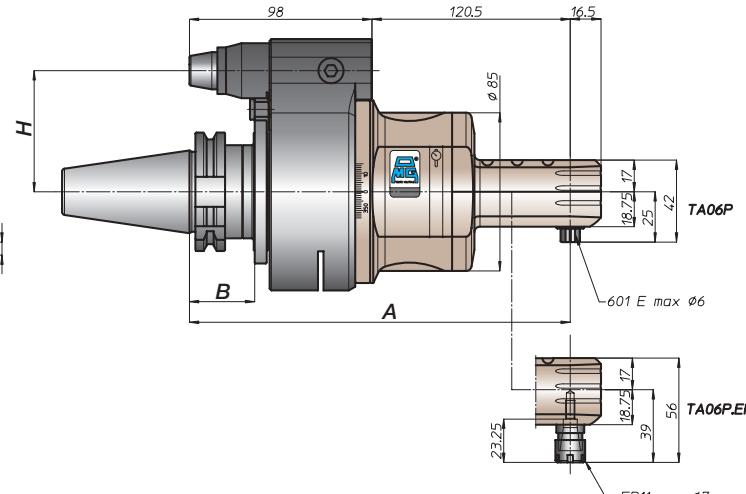
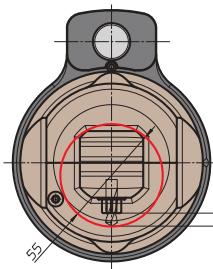
## prestazioni/performances



## tipi mandrino disponibili / available spindle types

3 Weldon Whistle-Notch

Ø6



CONO SHANK	size	A	B	H	Standard	Optional
DIN9871*	30			65	-	
	40			80	110	
	45			65	-	
DIN9871*	50	218,5	35	80	110	
CAT	40			65	-	
	50			80	110	
ANSI B5.50*	40			65	-	
	50			80	110	
BT	40			65	-	
	50	226,5	45	80	110	
HSK	63			65	-	
	80	227,5	46	80	110	
	100			65	-	
DIN69393				65	-	
CAPTO	C5			65	-	
	C6	222,5	39	80	110	
	C8			65	-	
ISO26623				65	-	
KM	63			65	-	
	80	218,5		80	110	
	100			65	-	
DIN2080				65	-	
	-	188,5	13	65	-	
	40			80	110	
	-	191,5	16	80	110	
	50			65	-	
ANSI B5.18	40	188,5	13	65	-	
	50	191,5	16	80	110	

\* Option: Dual Contact

# TAR06.PL

## caratteristiche/features



ø 6 M5 150 N



1-1 8000

## peso/weight

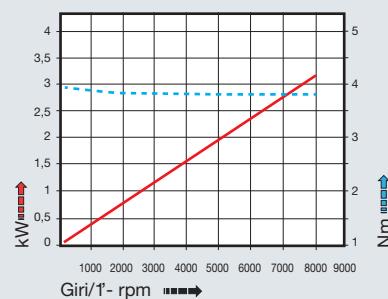


7,3 kg



9,7 kg

## prestazioni/performances

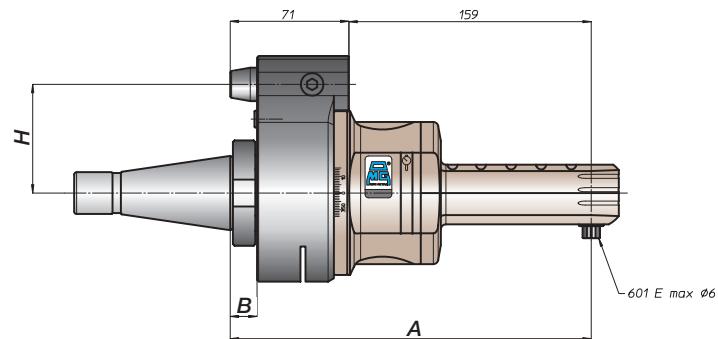
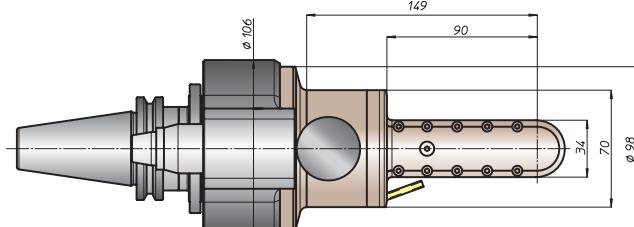
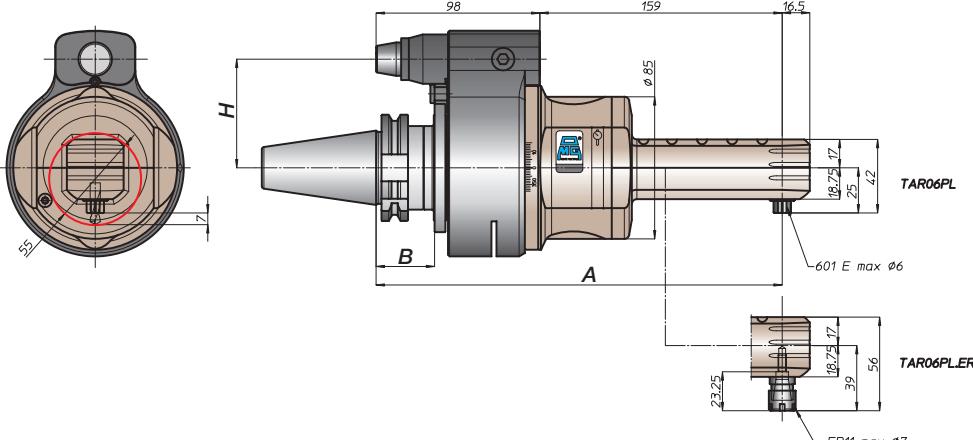


CONO SHANK	size	A	B	H	standard	optional
DIN69871 *	30	257	35	65	Weldon Whistle-Notch	-
	40					
	45			80		110
	50			110		
ANSIB5.50 *	CAT 40	265	45	65	Weldon Whistle-Notch	-
	CAT 50			80		110
* BT	40	265	45	65	Weldon Whistle-Notch	
	50			80		110
DIN69893	63	266	44	65	Weldon Whistle-Notch	
	80			80		110
	100			110		
ISO26623	C5	261	39	65	Weldon Whistle-Notch	
	C6			80		110
	C8			110		
KM	63	257	13	65	Weldon Whistle-Notch	
	80			80		110
	100			110		
DIN2080	-	227	16	65	Weldon Whistle-Notch	-
	40			80		
	-			110		
	50					
ANSIB5.18	NMTB 40	227	13	65	Weldon Whistle-Notch	-
	NMTB 50	230	16	80		110

★ Option: Dual Contact

tipi mandrino disponibili / available spindle types	
3	Weldon Whistle-Notch

Ø6

Accessori  
AccessoriesAppendice tecnica  
Technical supplementMT-Tc-Tc3  
TSI/TSX T

HT VH

MO

FH

BAH

TA CP

TA

TSI/TSX

T



# TAR10.P

## caratteristiche/features



$\varnothing 10$  M8 430 N



1-1 6000

## peso/weight



40



50

rotazione/rotation



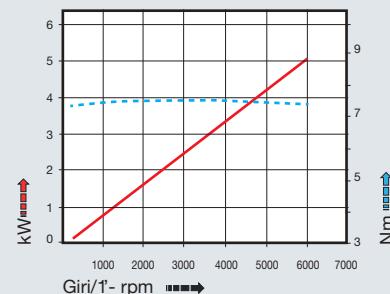
input



OUT

output

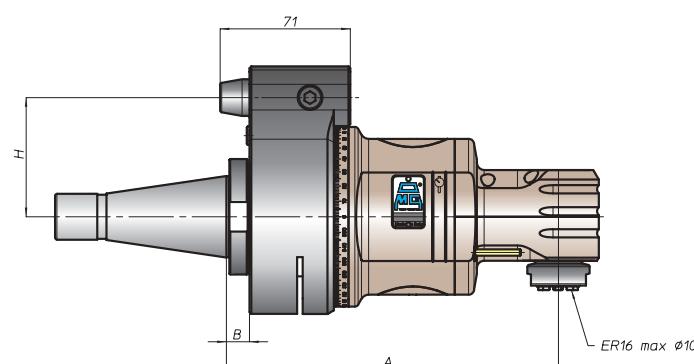
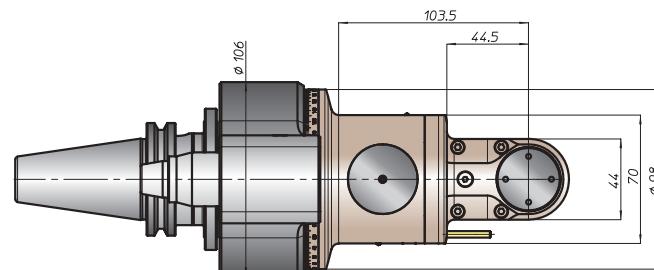
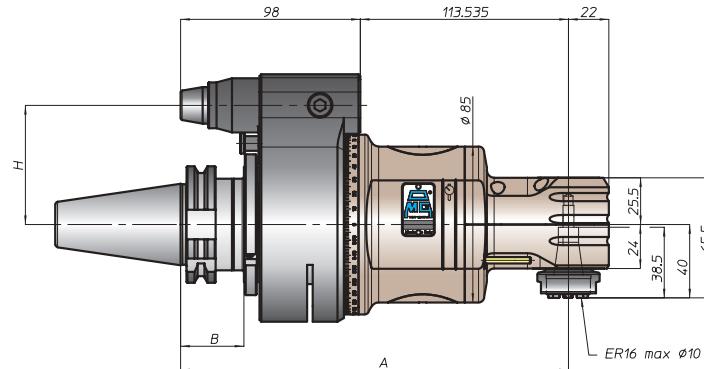
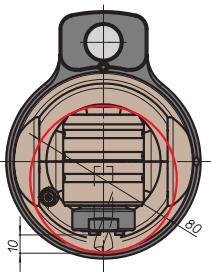
## prestazioni/performances



## tipi mandrino disponibili / available spindle types

3 Weldon Whistle-Notch

$\varnothing 12$



CONO SHANK	size	A	B	H	Standard	Optional
DIN9871 *	-			65	-	
	40			80	110	
	45			65	-	
	50	211,5	35	80	110	
ANSIB5.50 *	40			65	-	
	50			80	110	
BT *	40			65	-	
	50	219,5	45	80	110	
HSK	63			65	-	
	80	220,5	46	80	110	
	100			65	-	
DIN69893	C5			65	-	
	C6	215,5	39	80	110	
	C8			65	-	
ISO26623				80	110	
KM	63			65	-	
	80	211,5		80	110	
	100			65	-	
DIN2080	-			181,5	13	65
	40			184,5	16	80
	-			184,5	16	110
	50			184,5	16	110
ANSIB5.18	40	181,5	13	65	-	
	50	184,5	16	80	110	

\* Option: Dual Contact

# TAR10.PL

## caratteristiche/features



ø 10 M8 430 N



1-1 6000 rpm

## peso/weight

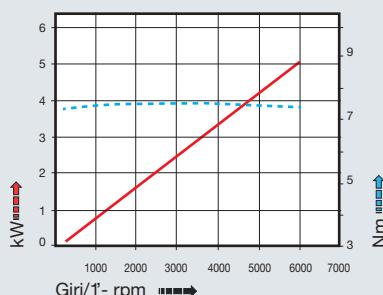


7,5 kg



9,3 kg

## prestazioni/performances



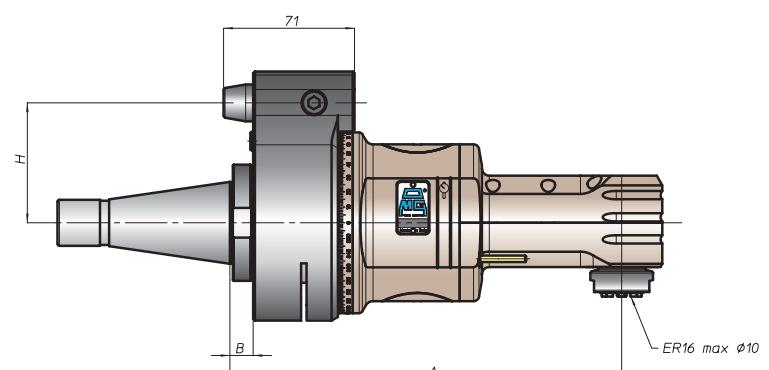
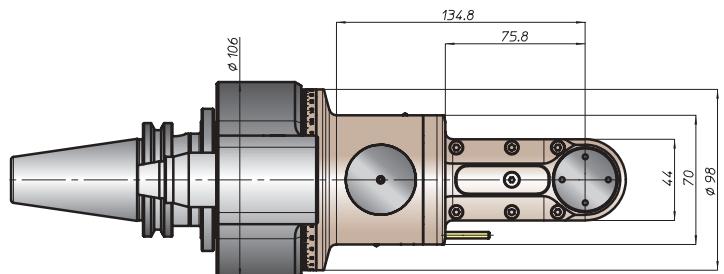
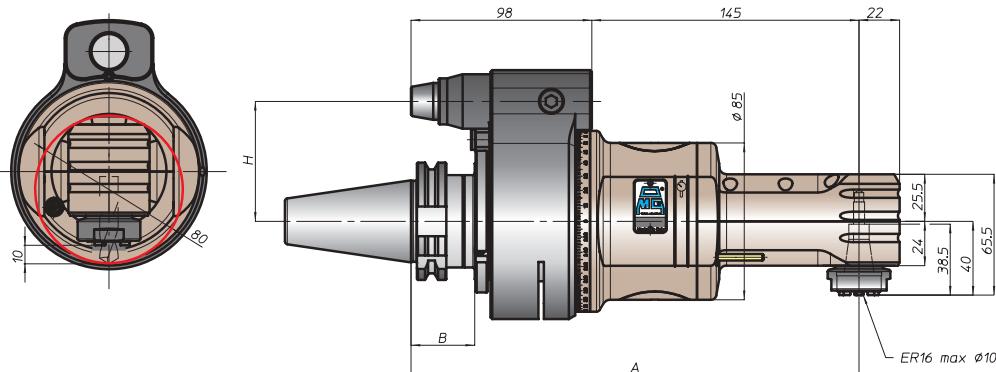
CONO SHANK	size	A	B	H	
				standard	optional
DIN69871 *	-	243	35	65	-
	40				
	45			80	110
	50			65	-
ANSIB5.50 *	40	251	45	80	110
	50			65	
* BT	40	251	45	80	110
	50			65	
DIN69893	63	252	46	65	
	80			80	110
	100				
ISO26623	C5	247	39	65	
	C6				
	C8			80	110
KM	63	243	13	65	
	80			80	110
	100				
DIN2080	-	213	13	65	-
	40				
	-			80	110
	50				
ANSIB5.18	40	213	13	65	-
	50	216	16	80	110

★ Option: Dual Contact

## tipi mandrino disponibili / available spindle types

3 Weldon Whistle-Notch

Ø12



FH

BAH

TA.CP

TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori  
AccessoriesAppendice tecnica  
Technical supplement

4-15





# TA07.P

## caratteristiche/features



Ø 7      M6      180 N



1-1      10000

## peso/weight



40      50

5,5 kg      7,5 kg

## rotazione/rotation



input



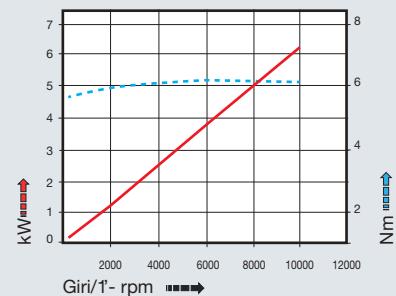
40      50

7,5 kg



output

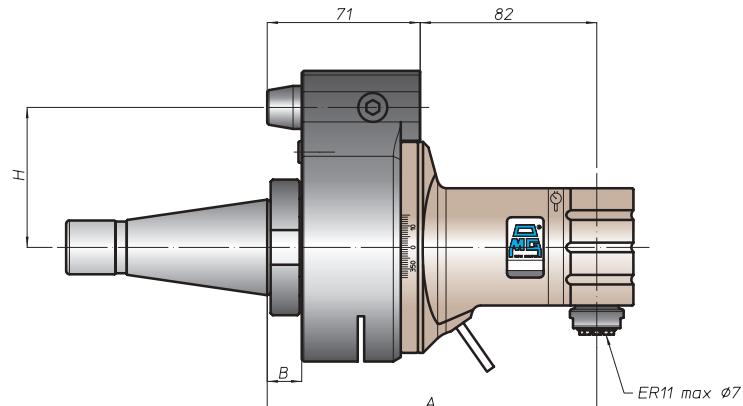
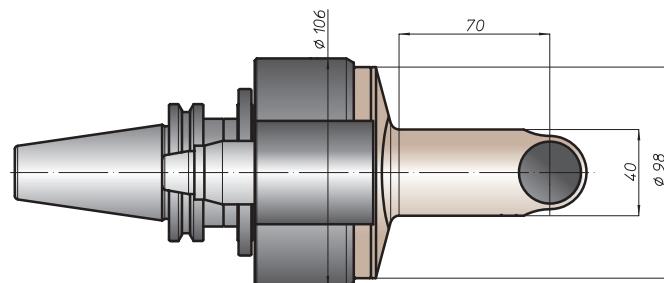
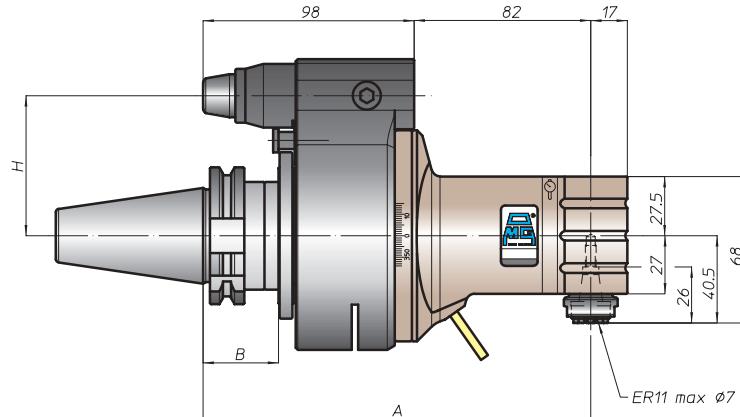
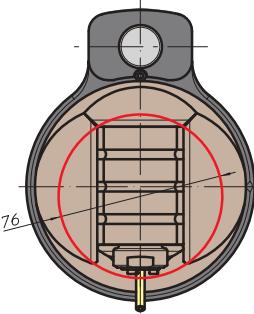
## prestazioni/performances



## tipi mandrino disponibili / available spindle types

3 Weldon Whistle-Notch

Ø8-Ø10



CONO SHANK	size	A	B	H	Standard	Optional
DIN9871 *	30			65	-	
	40			80	110	
	45					
	50	180	35			
CAT	40					
	50			65	-	
ANSIB5.50	40			80	110	
	50					
BT	40			65		
	50	188	45	80	110	
HSK	63			65		
	80	189		80	110	
	100					
DIN69893	63			44	65	
	80	189		46	80	110
	100					
CAPTO	C5			65		
	C6	184	39			
	C8			80	110	
KM	63			65		
	80	180		80	110	
	100					
DIN2080	-			150	13	65
	40					
	-			153	16	80
	50					110
NMTB	40	150	13	65	-	
	50	153	16	80	110	
ANSIB5.18	40					
	50					

★ Option: Dual Contact

# TA07.PL

## caratteristiche/features



ø 7 M6 180 N



1-1 10000

## peso/weight



40

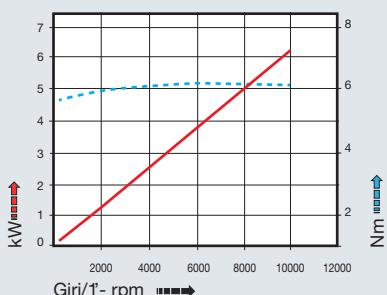
6,5 kg



50

8,8 kg

## prestazioni/performances



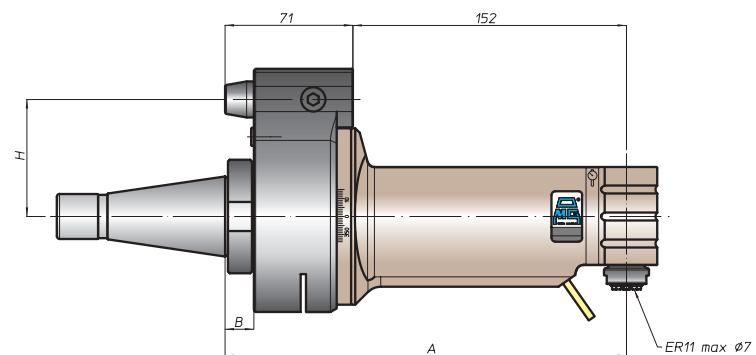
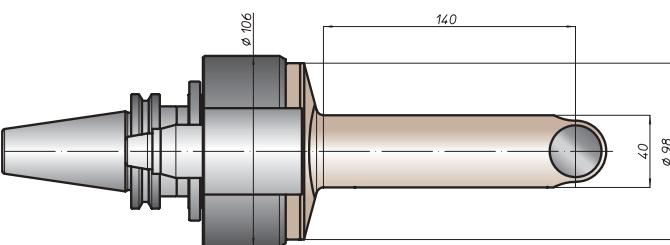
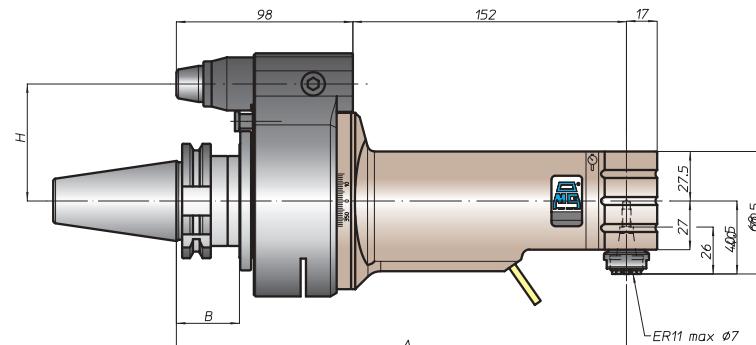
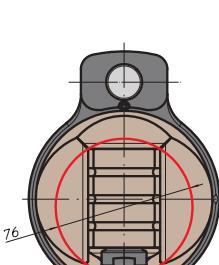
CONO SHANK	size	A	B	H	
				standard	optional
DIN69871 *	-	250	35	65	-
	40				
	45			80	110
	50			65	-
ANSI65.50 *	40	258	45	80	110
	50			65	
* BT	40	258	45	80	110
	50			65	
DIN69893	63	259	44	65	
	80		46	80	110
	100			65	
ISO26623	C5	254	39	65	
	C6			80	110
	C8			65	
KM	63	250	13	65	
	80			80	110
	100			65	
DIN2080	-	220	13	65	-
	40			80	110
	-			80	110
	50			80	110
ANSI65.18	40	220	13	65	-
	50	223	16	80	110

★ Option: Dual Contact

## tipi mandrino disponibili / available spindle types

3 Weldon Whistle-Notch

Ø8-Ø10



## TA10.P



## caratteristiche/features



Φ 10 M8 400 N



1-1 10000

## peso/weight



40

5,8 kg

rotazione/rotation



input

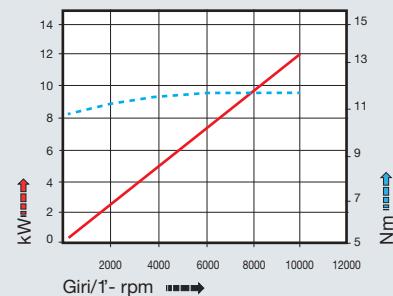


50

8 kg

output

## prestazioni/performances



## tipi mandrino disponibili / available spindle types

1 DIN6388-ER

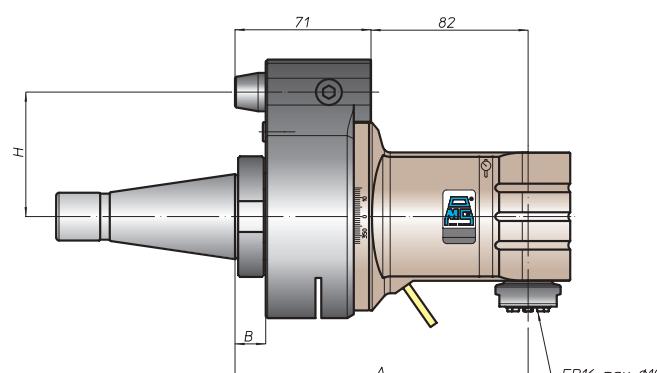
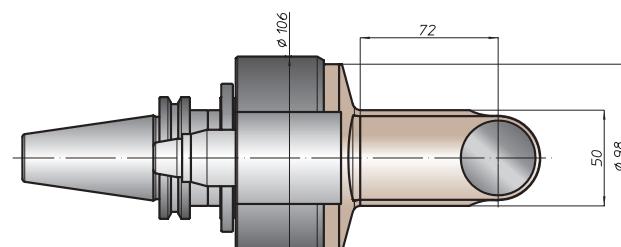
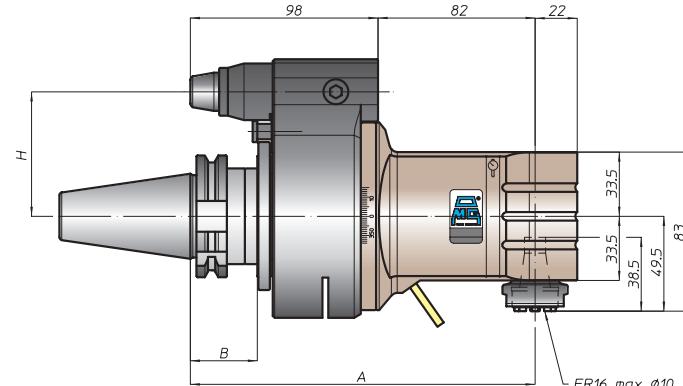
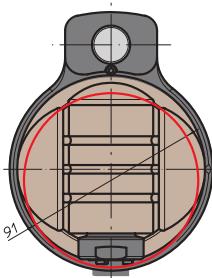
2 Albero portafresa Milling shaft

3 Weldon Whistle-Notch

ER20

Ø16

Ø10



CONO SHANK	size	A	B	H	Standard	Optional
DIN9871 *	30			65	-	
	40			80	110	
	45			65	-	
DIN9871 *	50	180	35	80	110	
ANSIB5.50 *	40			65	-	
	50			80	110	
BT	40			65		
DIN69893	50	188	45	80	110	
HSK	63			65		
	80	189	46	80	110	
	100					
CAPTO	C5			65		
	C6	184	39	80	110	
	C8					
KM	63			65		
	80	180		80	110	
	100					
DIN2080	-			150	13	65
	40			153	16	80
	-					110
	50					
NMTB	40	150	13	65	-	
ANSIB5.18	50	153	16	80	110	

\* Option: Dual Contact

# TA10.PL

## caratteristiche/features



ø 10 M8 400 N



1-1 10000

## peso/weight

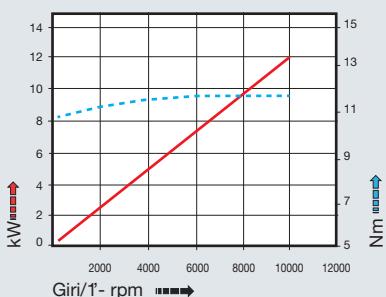


7,5 kg



9,8 kg

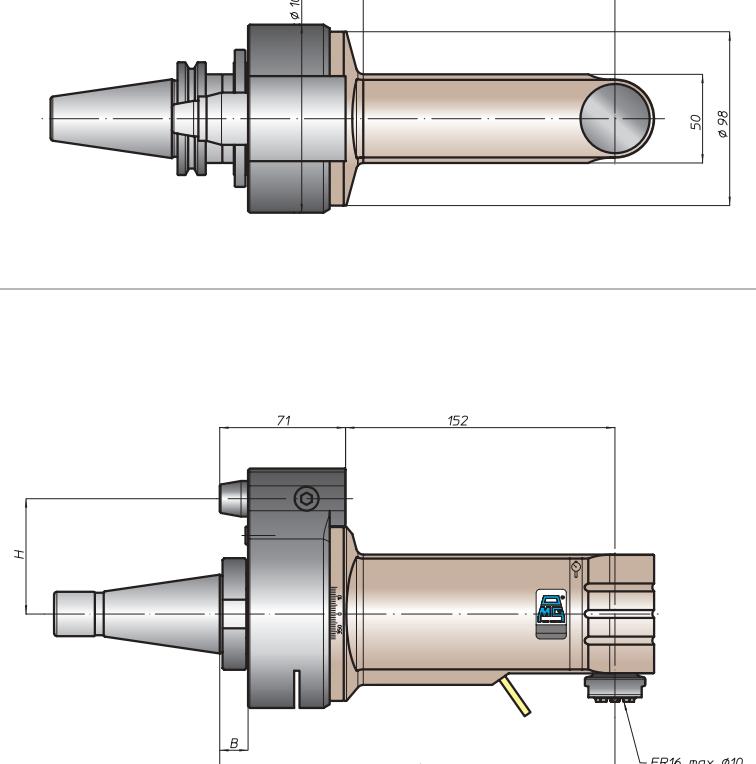
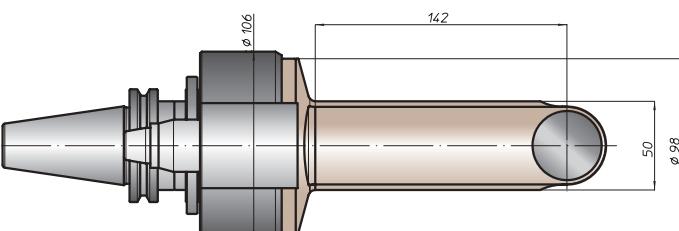
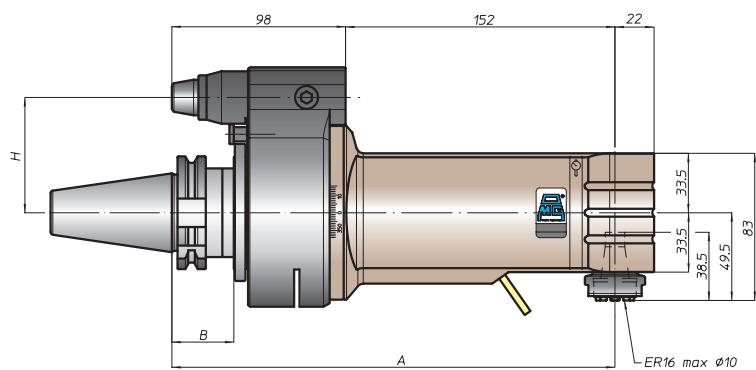
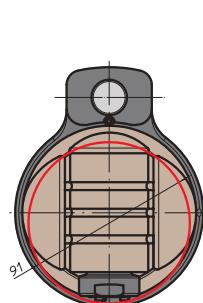
## prestazioni/performances



CONO SHANK	size	A	B	H	standard	optional
DIN69871 *	-				65	-
	40				80	110
	45				65	-
	50	250	35		80	110
ANSIB5.50 *	40				65	-
	50				80	110
* BT	40				65	
	50	258	45	80	110	
DIN69893	63				65	
	80	259	44	80	110	
	100				80	110
ISO26623	C5				65	
	C6	254	39		80	110
	C8				80	110
KM	63				65	
	80	250			80	110
	100				80	110
DIN2080	-				65	
	40	220	13	65	-	
	-	223	16	80	110	
	50				80	110
ANSIB5.18 NMTB	40	220	13	65	-	
	50	223	16	80	110	

★ Option: Dual Contact

tipi mandrino disponibili / available spindle types		
1 DIN6388-ER	2 Albero portafrese Milling shaft	3 Weldon Whistle-Notch
ER20	Ø16	Ø10





# TA13.P

## caratteristiche/features



## peso/weight

	40
	50

6,5 kg

9 kg

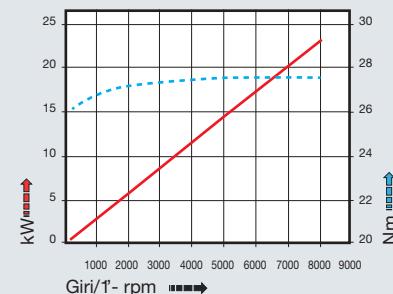
rotazione/rotation



input

output

## prestazioni/performances



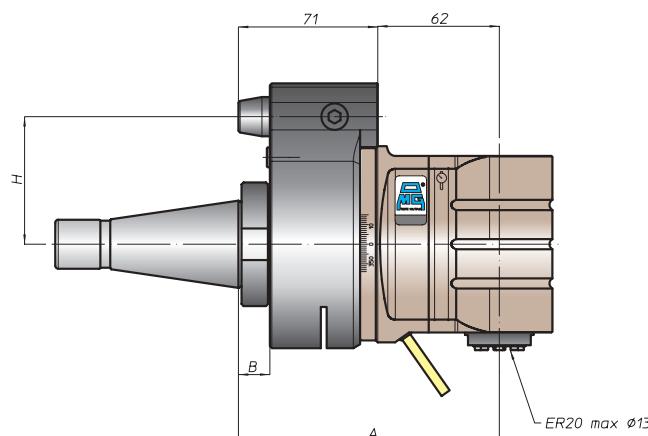
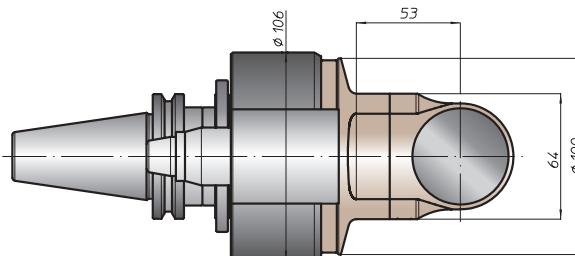
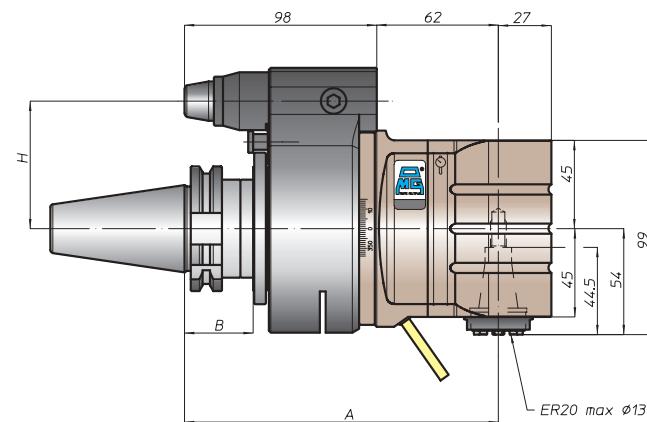
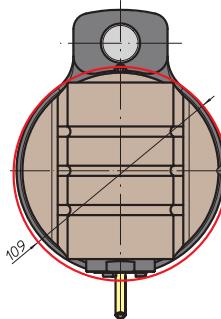
## tipi mandrino disponibili / available spindle types

- 1 DIN6388-ER    2 Albero portafresce Milling shaft    3 Weldon Whistle-Notch

ER25

Ø16-Ø22

Ø16



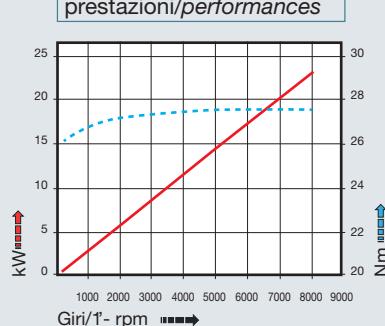
CONO SHANK	size	A	B	H	Standard	Optional
DIN98971 *	-			65	-	
	40			80	110	
	45			65	-	
	50	160	35	80	110	
ANSIB5.50 *	40			65	-	
	50			80	110	
BT *	40			65		
	50	168	45	80	110	
HSK	63			65		
	80	169	44	80	110	
	100			46	80	110
DIN69893						
CAPTO	C5			65		
	C6	164	39	80	110	
	C8					
KM	63			65		
	80	160		80	110	
	100					
DIN2080						
	-	130	13	65	-	
	40			80	110	
	-	133	16	80	110	
	50					
NMTB	40	130	13	65	-	
ANSIB5.18	50	133	16	80	110	

\* Option: Dual Contact

# TA13.PL



caratteristiche/features	peso/weight
ø 13     M10     810 N	40    9,5 kg
rotazione/rpm	input
1-1     8000	IN

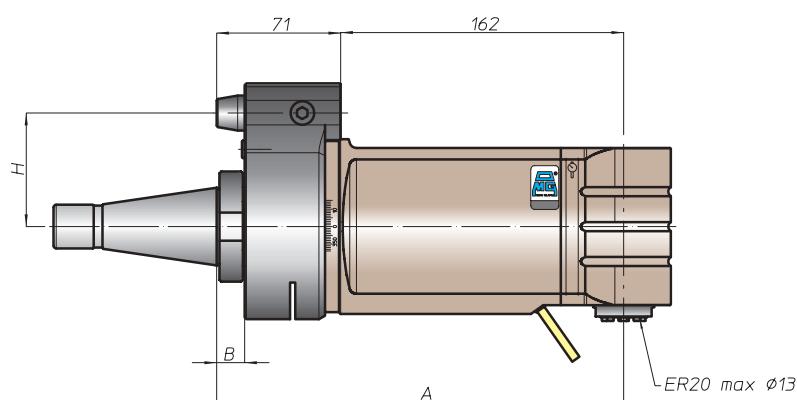
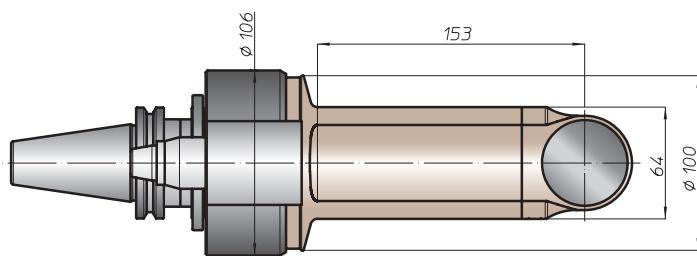
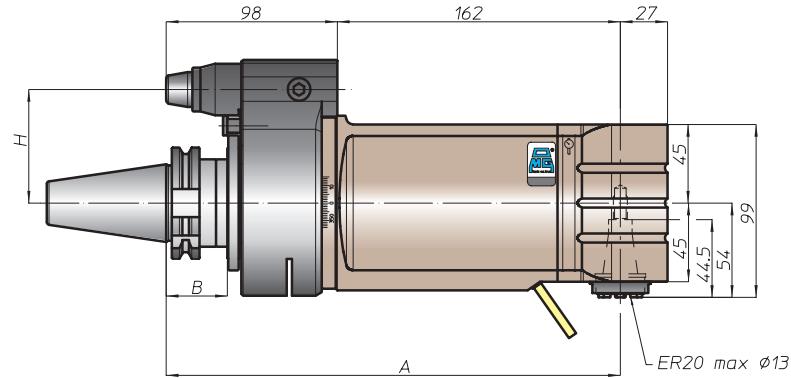
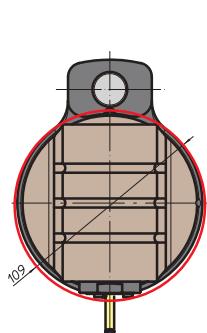


					H
CONO SHANK	size	A	B	standard	optional
DIN69871 *	-	260	35	65	-
	40			80	110
	45				
	50				
ANSIB5.50 *	CAT	40	65	65	-
				80	110
		50			
*	BT	40	45	65	-
				80	110
		50			
DIN69893	HSK	63	44	65	-
				80	110
		80	269	80	110
		100			
ISO26623	CAPTO	C5	39	65	-
				80	110
		C6	264		
		C8			
KM		63	260	65	-
				80	110
		80	260		
		100			
DIN2080		-	230	13	65
					-
		40			
		-	233	16	80
		50			110
ANSIB5.18	NMTB	40	230	13	65
		50	233	16	80
					110

**\* Option: Dual Contact**

**tipi mandrino disponibili / available spindle types**

- 1** DIN6388-ER      **2** Albero portafrese Milling shaft      **3** Weldon Whistle-Notch



## TA16.P



## caratteristiche/features



ø 16 M12 1040 N



1-1 5000

## peso/weight



7,7 kg



11,7 kg

## rotazione/rotation

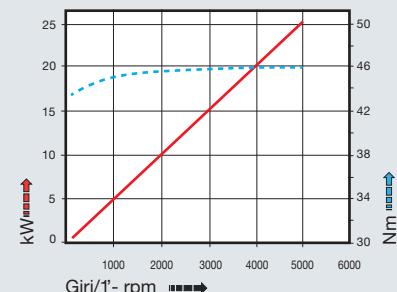


input



output

## prestazioni/performances



## tipi mandrino disponibili / available spindle types

1 DIN6388-ER

2 Albero portafresa Milling shaft

3 Weldon Whistle-Notch

4 DIN69893-HSK

5 CORAMANT CAPTO®

6 ABS Licenza KOMET®

ER32

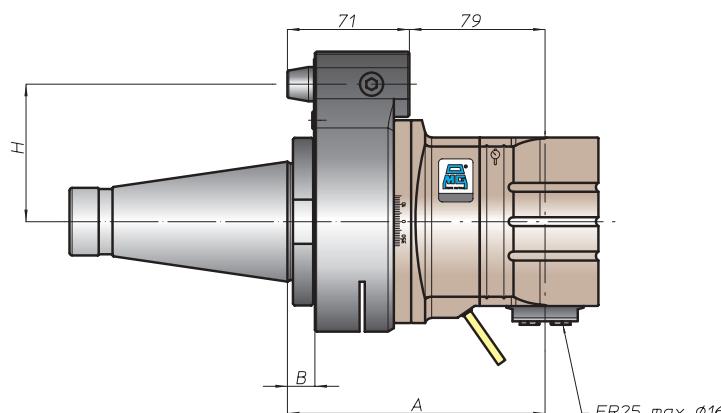
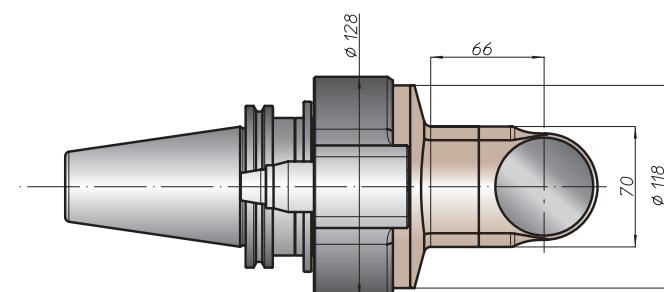
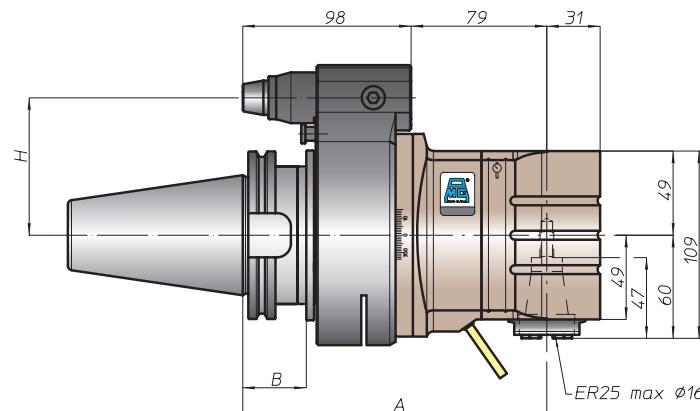
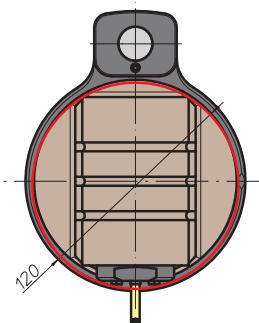
Ø16-Ø22-Ø27-Ø32

Ø20

HSK32

C3

ABS32



CONO SHANK	size	A	B	H	standard	optional
DIN69871 *	-	172		35	65	-
	40				80	110
	45	177			65	-
	50				80	110
ANSIB5.50 *	CAT	40	172		65	-
		50	177		80	110
BT	40	172			65	
	50	185	45		80	110
DIN69893	HSK	63	181	44	65	
		80	186	46	80	110
	100					
ISO26623	CAPTO	C5	176		65	
		C6	181	39	80	110
	C8					
KM	63	172			65	
		80	177		80	110
	100					
DIN2080	-	147	13	65	-	
	40					
	-	150	16	80	110	
	50					
ANSIB5.18	NMTB	40	142	13	65	-
		50	150	16	80	110

\* Option: Dual Contact

# TA16.PL

## caratteristiche/features



ø 16 M12 1040 N



1-1 5000

## peso/weight

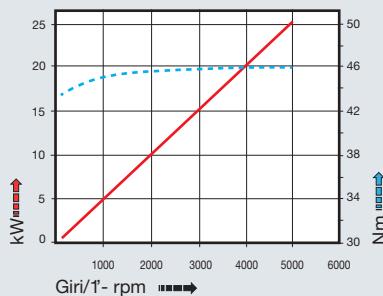


15,5 kg

## rotazione/rotation



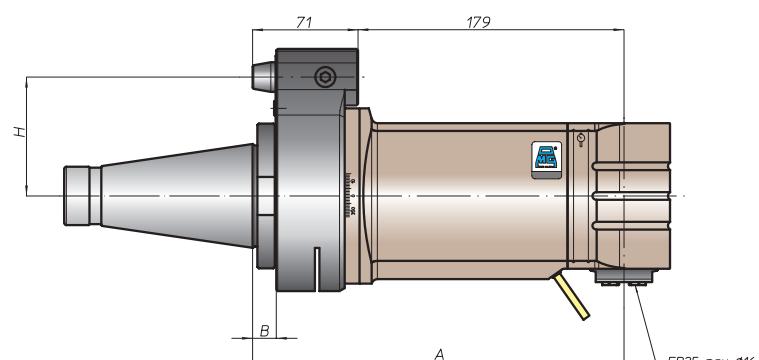
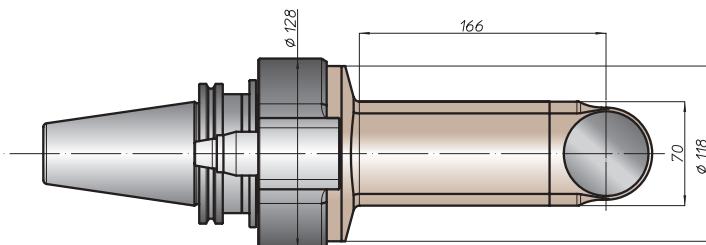
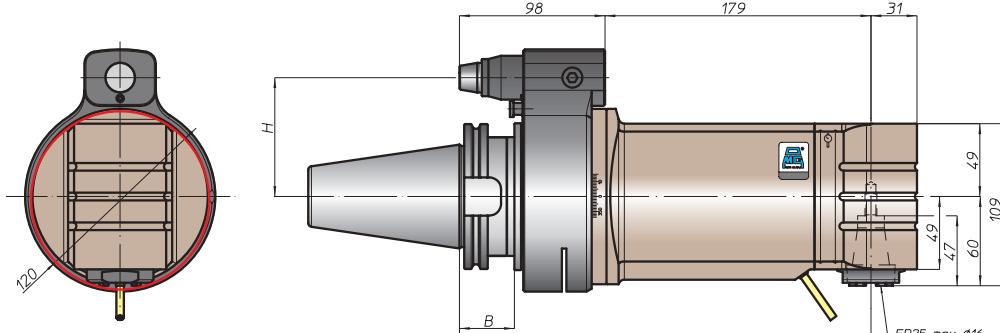
## prestazioni/performances



CONO SHANK	size	A	B	H	standard	optional
DIN69871 *	-	-	-	35	80	110
	-	-	-			
	45	277	-			
ANSIB5.50 *	-	-	-	80	110	
	50	277	-			
* BT	-	-	-	80	110	
	50	285	45			
HSK	-	-	-	80	110	
	80	286	46			
DIN69893	-	-	-	80	110	
	100	286	46			
CAPTO	-	-	-	80	110	
	C6	281	39			
ISO26623	-	-	-	80	110	
	C8	281	39			
KM	-	-	-	80	110	
	80	277	-			
DIN2080	-	-	-	80	110	
	100	277	-			
DIN2080	-	-	-	80	110	
	-	-	-			
	-	-	-			
ANSIB5.18	-	-	-	80	110	
	50	250	16			
NMTB	-	-	-	-	-	-
ANSIB5.18	50	250	16	80	110	

★ Option: Dual Contact

tipi mandrino disponibili / available spindle types					
1 DIN6388-ER	2 Albero portafrese Milling shaft	3 Weldon Whistle-Notch	4 DIN69893-HSK	5 COROMANT CAPTO®	6 ABS Licenza KOMET®
ER32	Ø16-Ø22-Ø27-Ø32	Ø20	HSK32	C3	ABS32

FH  
BAH  
TA.CP  
TA  
MO  
HT  
VH  
TSI/TSX  
T  
MT-Tc-Tc3  
Accessori  
Accessories  
Appendice tecnica  
Technical supplementAppendice tecnica  
Technical supplement



# TA20.P

## caratteristiche/features



## peso/weight



14,5 kg

## rotazione/rotation

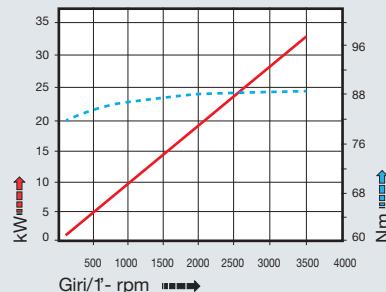


input



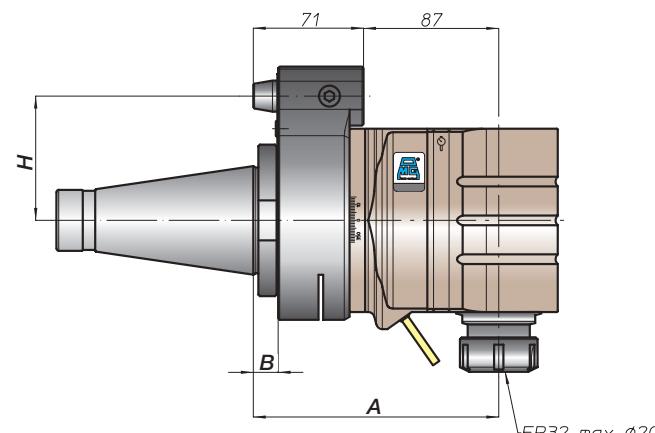
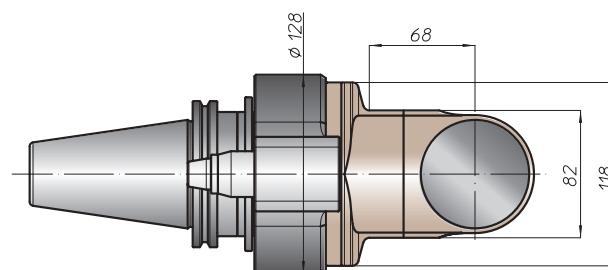
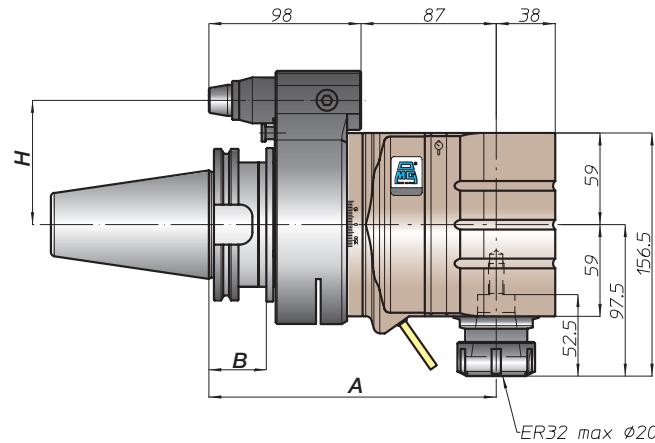
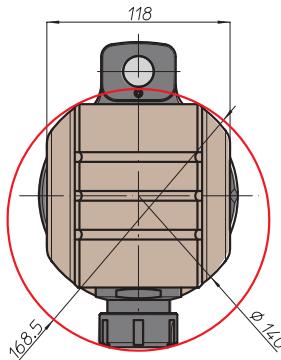
output

## prestazioni/performances



## tipi mandrino disponibili / available spindle types

- |              |                                   |                        |                |                   |                      |
|--------------|-----------------------------------|------------------------|----------------|-------------------|----------------------|
| 1 DIN6388-ER | 2 Albero portafresa Milling shaft | 3 Weldon Whistle-Notch | 4 DIN69893-HSK | 5 CORAMANT CAPTO® | 6 ABS Licenza KOMET® |
| ER40         | Ø22-Ø27-Ø32                       | Ø20-Ø25-Ø32            | HSK40          | C4                | ABS40                |



CONO SHANK	size	A	B	H	Standard	optional
DIN9871 *	-				-	-
	45				80	110
	50	185	35			
ANSIB5.50 *	-				-	-
	50				80	110
BT *	-				-	
	50	193	45	80	110	
HSK	-				-	-
	80	194		46	80	110
	100					
CAPTO	-				-	
	-	189			80	110
ISO26623						
KM	-				-	
	80	185			80	110
	100					
DIN2080						
	-				-	-
	-				80	110
	-					
	50	158	16	80	110	
NMTB						
ANSIB5.18	-				-	-
	50	158	16	80	110	

\* Option: Dual Contact

# TA20.PL

## caratteristiche/features



ø 20 M14 1460 N



1-1 3500

## peso/weight

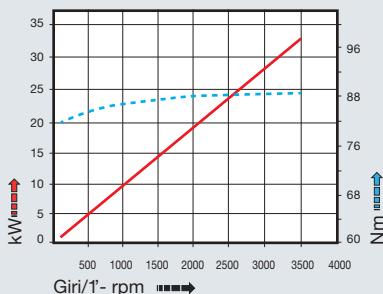


19 kg

## rotazione/rotation



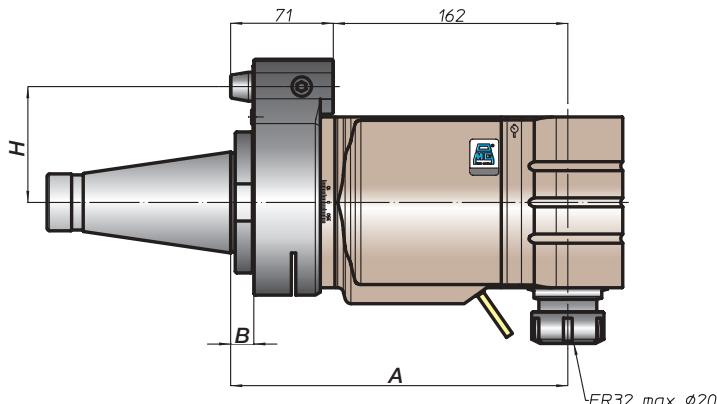
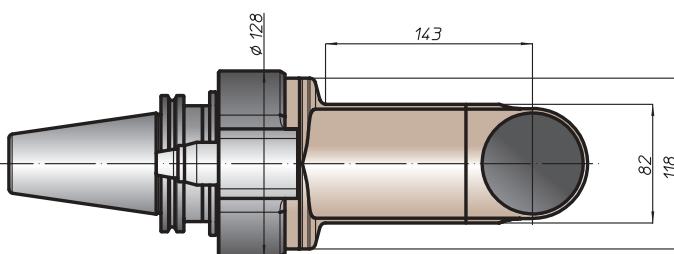
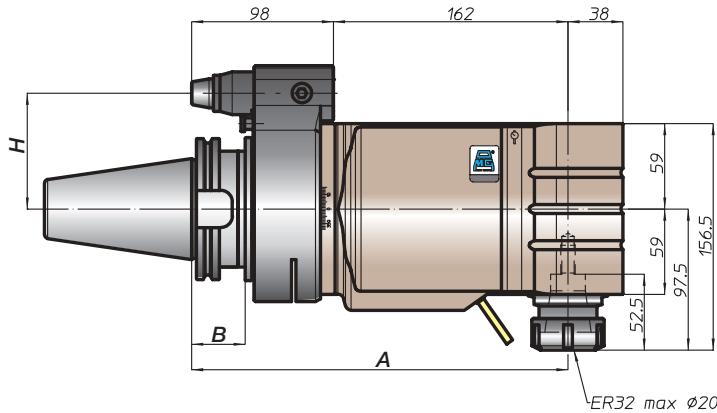
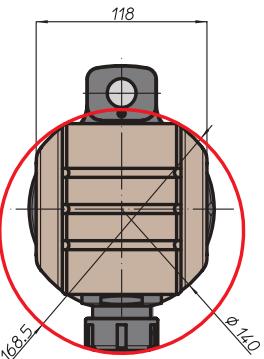
## prestazioni/performances



CONO SHANK	size	A	B	H	standard	optional
DIN69871 *	-	-	-	-	-	-
	-	-	-	-	-	-
	45	-	-	-	-	-
	50	260	35	80	110	
ANSIB5.50 *	-	-	-	-	-	-
	-	-	-	-	-	-
	50	-	-	-	-	-
* BT	-	-	-	-	-	-
	-	-	-	-	-	-
	50	268	45	80	110	
DIN69893	-	-	-	-	-	-
	-	-	-	-	-	-
	80	269	-	-	-	-
	100	-	-	-	-	-
ISO26623	-	-	-	-	-	-
	-	-	-	-	-	-
	264	-	-	-	-	-
	C8	-	-	-	-	-
KM	-	-	-	-	-	-
	-	-	-	-	-	-
	80	260	-	-	-	-
	100	-	-	-	-	-
DIN2080	-	-	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	233	16	80	110		
	50	-	-	-	-	-
NMTB18	-	-	-	-	-	-
	-	-	-	-	-	-
	50	233	16	80	110	
ANSISB.18	-	-	-	-	-	-

## tipi mandrino disponibili / available spindle types

- 1** DIN6388-ER    **2** Albero portafrese Milling shaft    **3** Weldon Whistle-Notch    **4** DIN69893-HSK    **5** COROMANT CAPTO®    **6** ABS Licenza KOMET®
- ER40**    **Ø22-Ø27-Ø32**    **Ø20-Ø25-Ø32**    **HSK40**    **C4**    **ABS40**



# TA Extended Gallery



FH  
BAH

TA.CP

TA

MO

HT

VH

TSI/TSX

T

MT-Tc-TC3

Accessori  
Accessories

Appendice tecnica  
Technical supplement

4-26



# TA20.30

## caratteristiche/features



ø 20

M14

1460 N



1-1

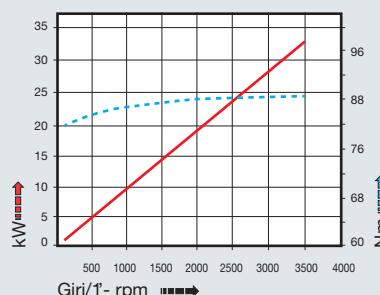
3500

## peso/weight



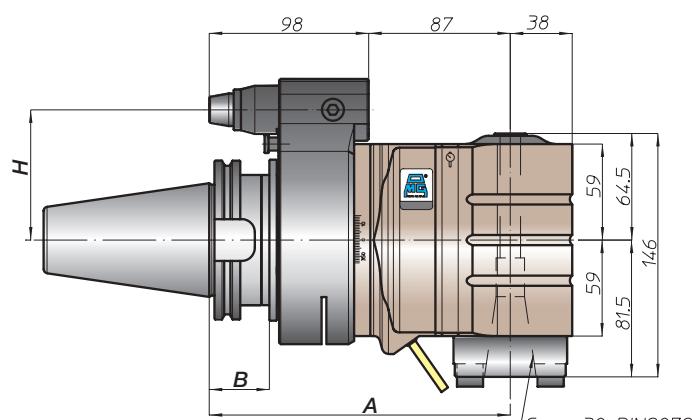
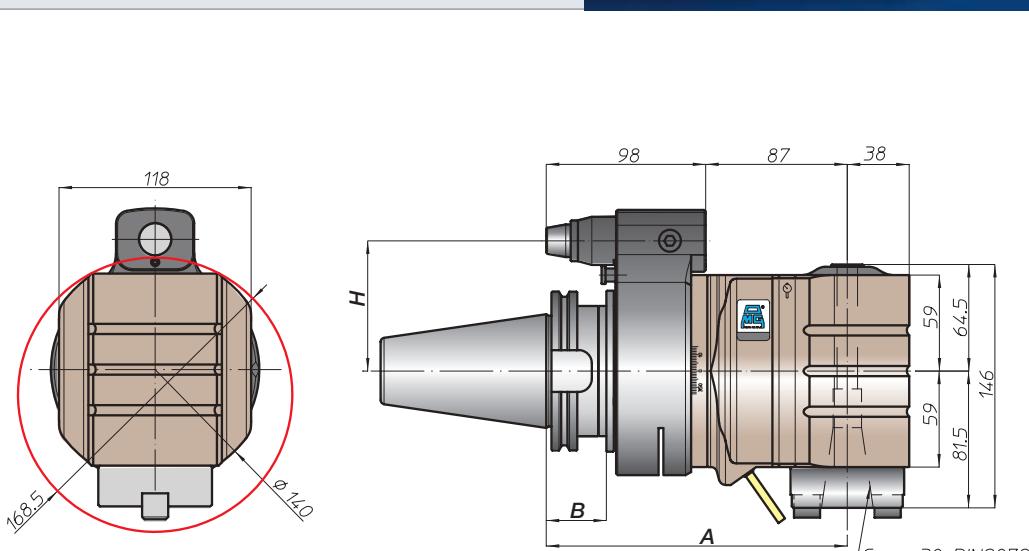
14,7 kg

## prestazioni/performances



CONO SHANK	size	H		standard	optional
		A	B		
DIN69871 *	-	185	35	80	110
	-				
	45				
	50				
ANSI65.50 *	CAT	50	65	80	110
	BT				
HSK	-	193	45	80	110
	80				
	100				
CAPTO	-	189	80	110	
	-				
	C8				
KM	-	185	80	110	
	80				
	100				
DIN2080	-	158	16	80	110
	-				
	-				
	50				
ANSI65.18 NMTB	-	158	16	80	110
	50				

★ Option: Dual Contact

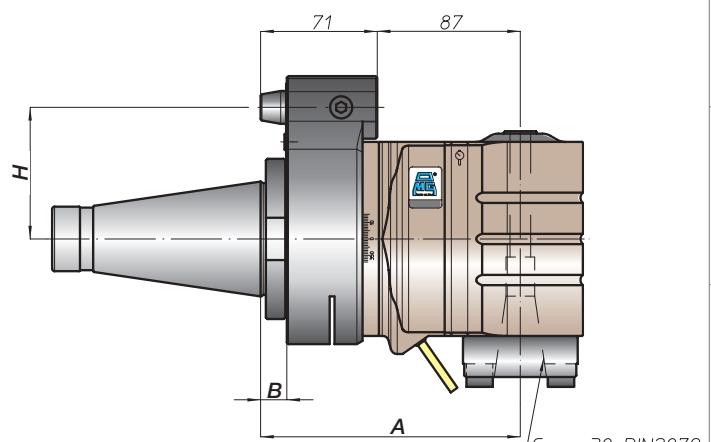
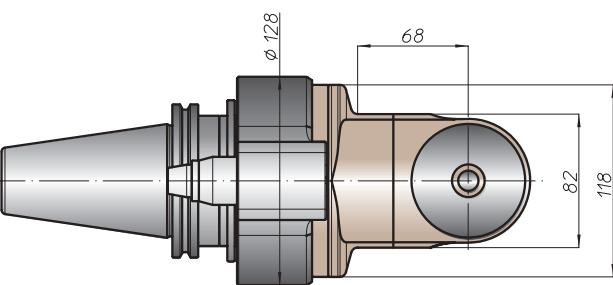


## Nota:

- nel mandrino DIN2079 si possono utilizzare coni DIN2080-30, DIN69871-A30, MAS403-BT30

## Note:

- on the spindle DIN2079 you can use shank DIN2080-30, DIN69871-A30, MAS403-BT30

FH  
BAH  
TA.CP  
TA  
MO  
HT  
VH  
TSI/TSX  
T  
MT-Tc-Tc3  
Accessori  
Accessories  
Appendice tecnica  
Technical supplementAppendice  
Accessori  
AccessoriesAppendice  
Accessori  
AccessoriesAppendice  
Accessori  
Accessories

4-27



# TA26.P

## caratteristiche/features



## peso/weight



22 kg

## rotazione/rotation

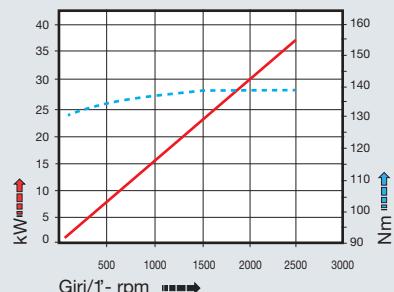


input



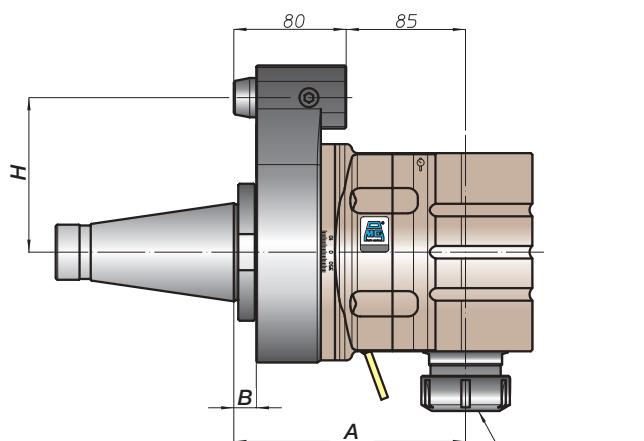
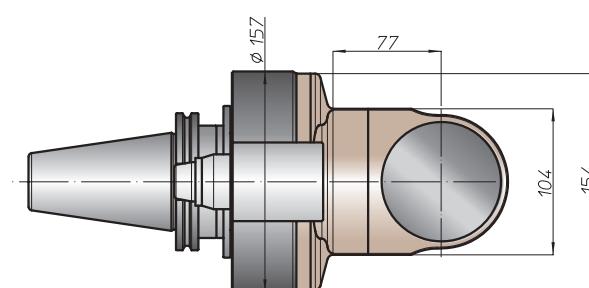
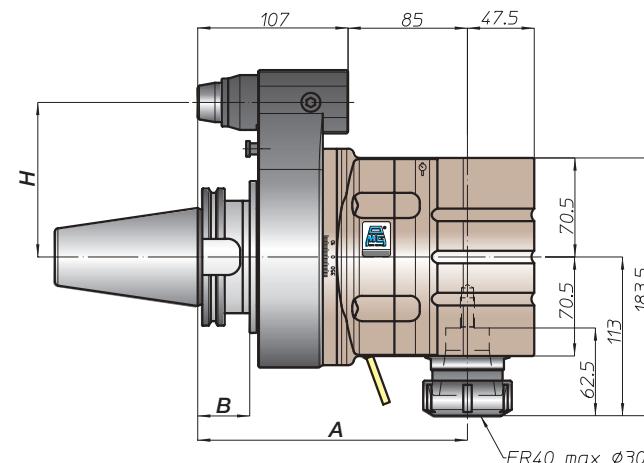
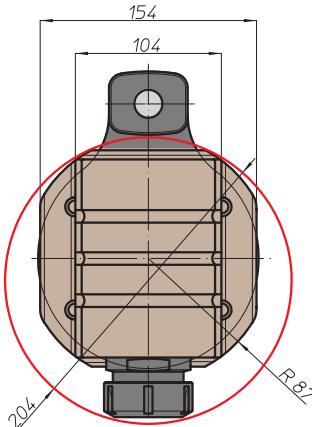
output

## prestazioni/performances



## tipi mandrino disponibili / available spindle types

- 2 Albero portafresa Milling shaft    3 Weldon Whistle-Notch    4 DIN69893-HSK    5 COROMANT CAPTO®    6 ABS Licenza KOMET®
- Ø16-Ø27-Ø32    Ø32    HSK63    C4    ABS50



CONO SHANK	size	A	B	H	standard	optional
DIN9871 *	-				-	-
CAT	45				110	-
ANSIB5.50	50	192	35		-	-
BT	-				-	-
HSK	50	200	45	110	-	-
DIN69893	80	201	46	110	-	-
	100					
CAPTO	-			196	-	-
ISO26623	-				110	-
KM	100	192			-	-
DIN2080	-				-	-
	50	165	16	110	-	-
NMTB	50	165	16	110	-	-
ANSIB5.18						

\* Option: Dual Contact

# TA26.40

## caratteristiche/features



ø 26 M20 3020 N



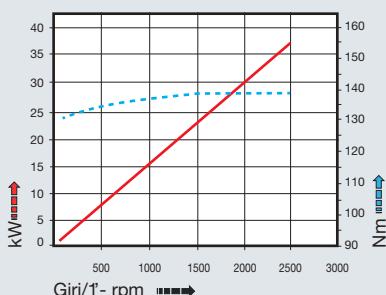
1-1 2500

## peso/weight



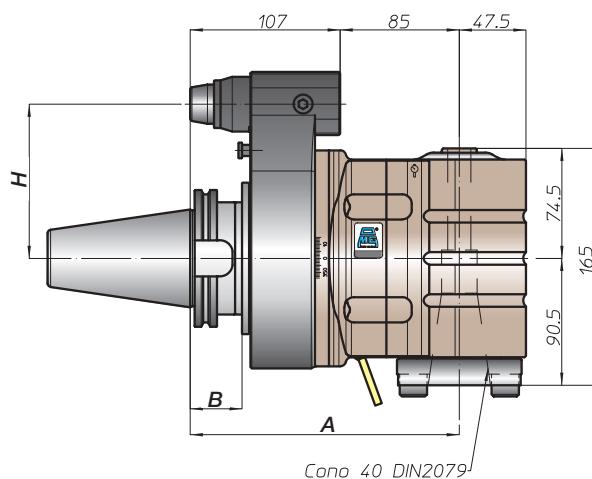
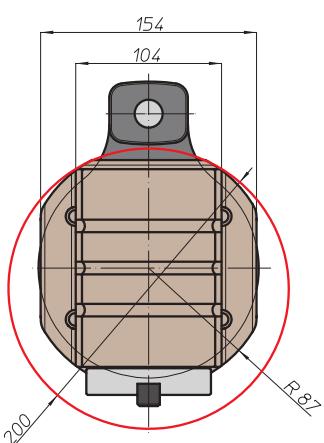
22 kg

## prestazioni/performances



CONO SHANK	size	H		standard	optional
		A	B		
DIN69871 *	-	192	35	110	-
	45				
ANSIB5.50 *	-	50	110	-	-
	CAT				
* BT	-	200	45	110	-
	50				
DIN69893	-	201	46	110	-
	80				
ISO26623	-	196	-	-	-
	C8				
KM	-	192	-	-	-
	100				
DIN2080	-	165	16	110	-
	-				
ANSIB5.18	-	50	165	16	110
	NMTB				

★ Option: Dual Contact

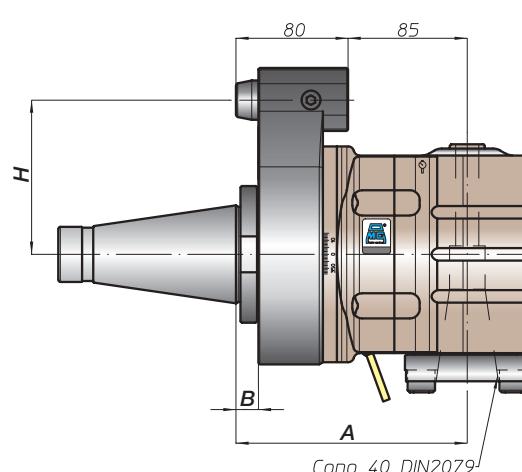
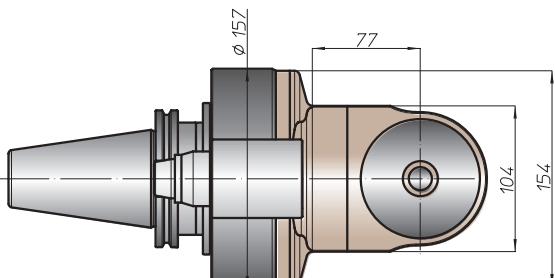


## Nota:

- nel mandrino DIN2079 si possono utilizzare coni DIN2080-40, DIN69871-A40, MAS403-BT40

## Note:

- on the spindle DIN2079 you can use shank DIN2080-40, DIN69871-A40, MAS403-BT40

FH  
BAH  
TA.CP  
TA  
MO  
HT  
VH  
TSI/TSX  
T  
MT-TC-TC3  
Accessori  
Accessories  
Appendice tecnica  
Technical supplement

4-29

## TA07.2P



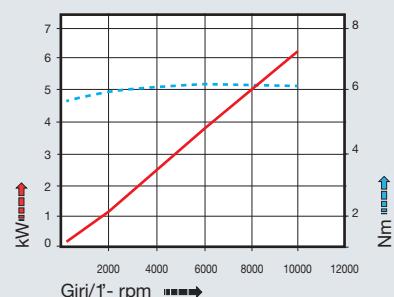
## caratteristiche/features



## peso/weight



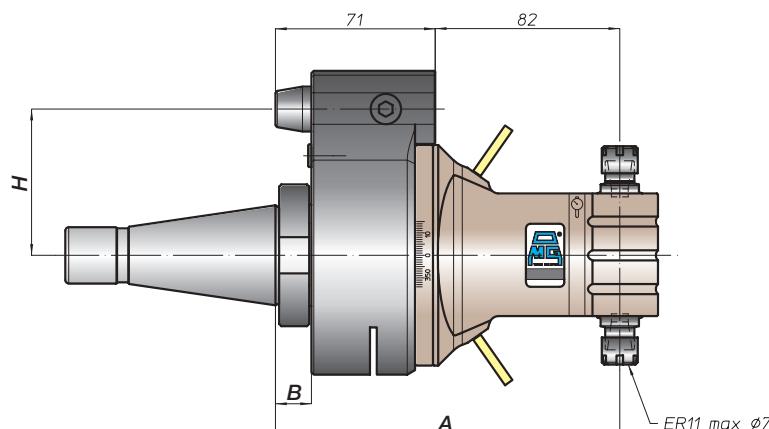
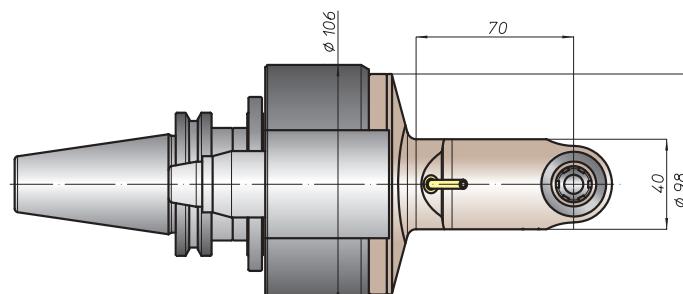
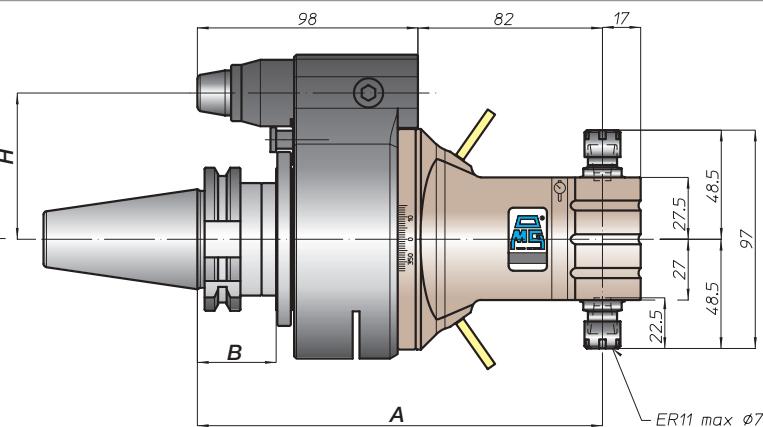
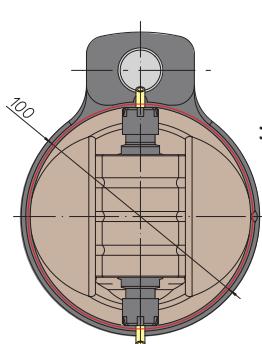
## prestazioni/performances



## tipi mandrino disponibili / available spindle types

3 Weldon Whistle-Notch

Ø10



CONO SHANK	size	A	B	H	standard	optional
DIN9871 *	30			65	-	
	40			80	110	
	45					
	50	180	35			
ANSIB5.50 *	40			65	-	
	50			80	110	
BT *	40			65		
	50	188	45	80	110	
DIN69893	63			65		
	80	189	46	80	110	
	100					
CAPTO	C5			65		
	C6	184	39			
	C8			80	110	
KM	63			65		
	80	180		80	110	
	100					
DIN2080	-			150	13	65
	40					
	-			153	16	80
	50					110
ANSIB5.18	40	150	13	65	-	
	50	153	16	80	110	

\* Option: Dual Contact

# TA10.2P

## caratteristiche/features



ø 10 M8 400 N



1-1 10000

## peso/weight

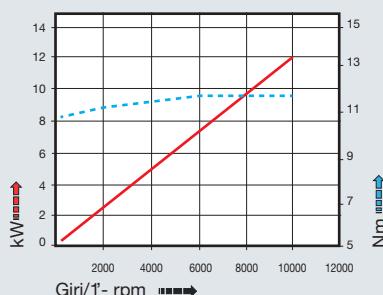


6,1 kg



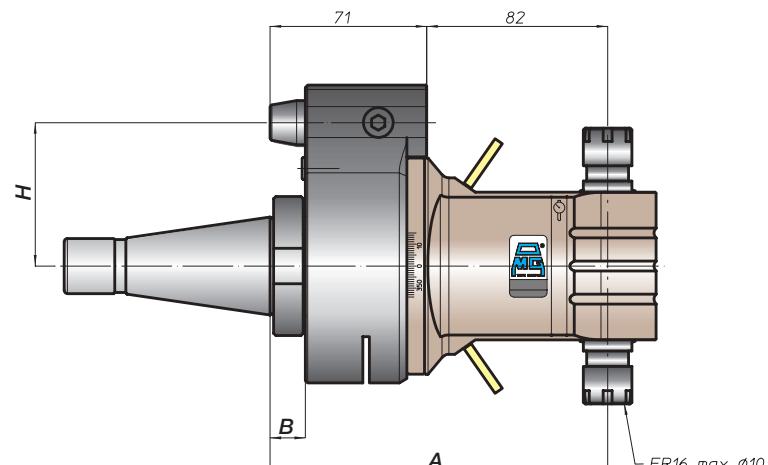
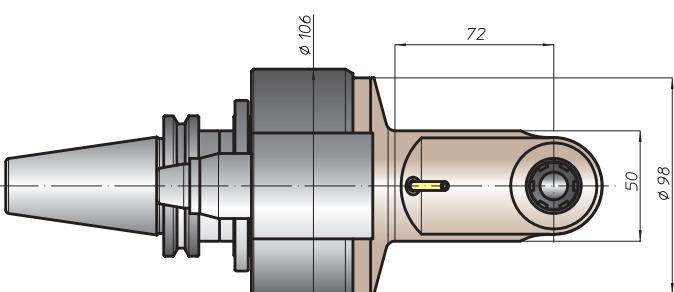
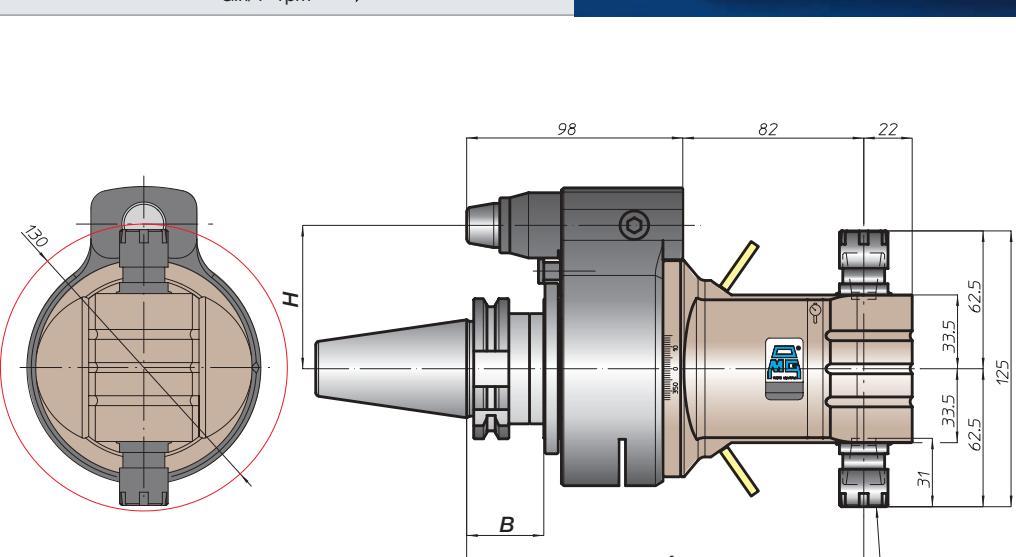
7,5 kg

## prestazioni/performances



CONO SHANK	size	A	B	H	
				standard	optional
DIN69871 *	30	180	35	65	-
	40				
	45			80	110
	50			65	-
ANSI/B5.50 *	40	188	45	80	110
	50			65	
* BT	40	188	45	80	110
	50			65	
DIN69893	63	189	44	65	
	80		46	80	110
	100			65	
ISO26623	C5	184	39	65	
	C6			80	110
	C8			65	
KM	63	180	35	65	
	80			80	110
	100			65	
DIN2080	-	150	13	65	-
	40		16	80	110
	-			65	
	50		16	80	110
ANSI/B5.18	40	150	13	65	-
	50	153	16	80	110

★ Option: Dual Contact

FH  
BAH  
TA.CP  
TA  
MO  
HT  
VH  
TSI/TSX  
T  
MT-Tc-Tc3  
Accessori  
Accessories  
Appendice tecnica  
Technical supplement

# TA13.2P



## caratteristiche/features



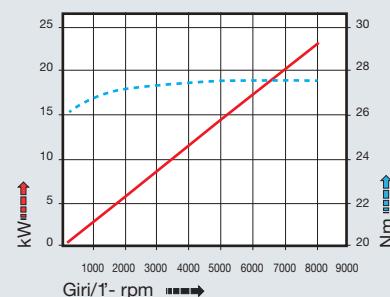
## peso/weight



## rotazione/rotation



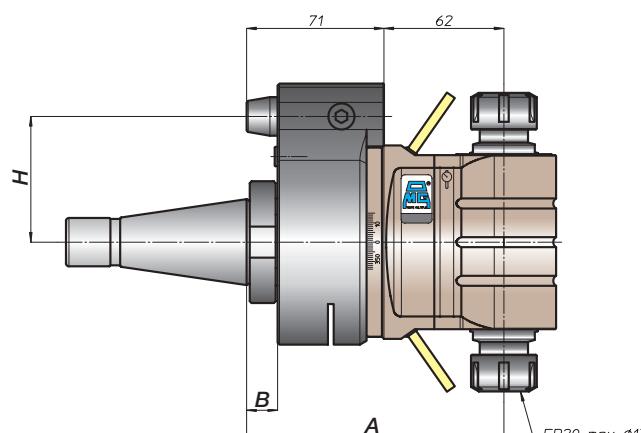
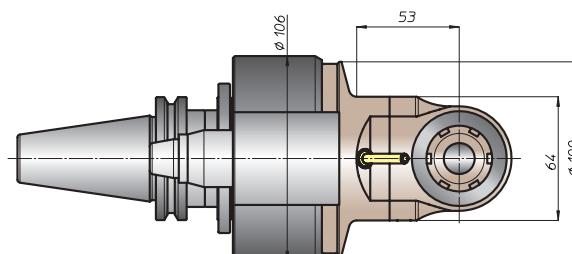
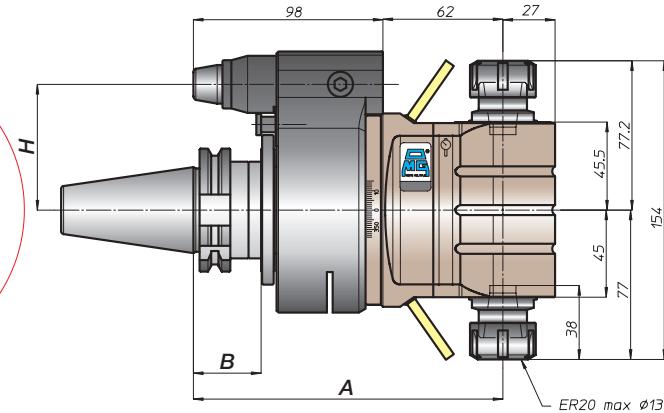
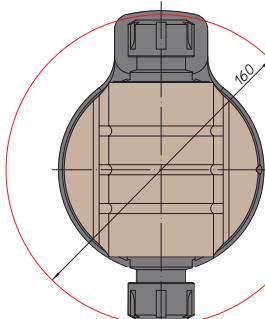
## prestazioni/performances



## tipi mandrino disponibili / available spindle types

1 DIN6388-ER

ER25



CONO SHANK	size	A	B	H	standard	optional
DIN9871 *	-			65	-	
	40			80	110	
	45			65	-	
	50	160	35	80	110	
ANSIB5.50 *	40			65	-	
	50			80	110	
BT *	40			65		
	50	168	45	80	110	
HSK	63			65		
	80	169	44	80	110	
	100			46	80	110
CAPTO	C5			65		
	C6	164	39	80	110	
	C8			65		
KM	63			65		
	80	160		80	110	
	100			65		
DIN2080	-			130	13	65
	40			133	16	80
	-			133	16	110
	50			130	13	65
NMTB	40	130	13	80	110	
	50	133	16	80	110	
ANSIB5.18	40	130	13	65	-	
	50	133	16	80	110	

\* Option: Dual Contact

# TA16.2P

## caratteristiche/features



ø 16 M12 1040 N



1-1 5000

## peso/weight



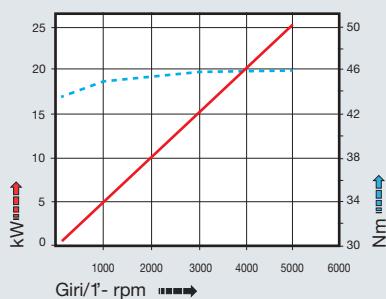
40



50

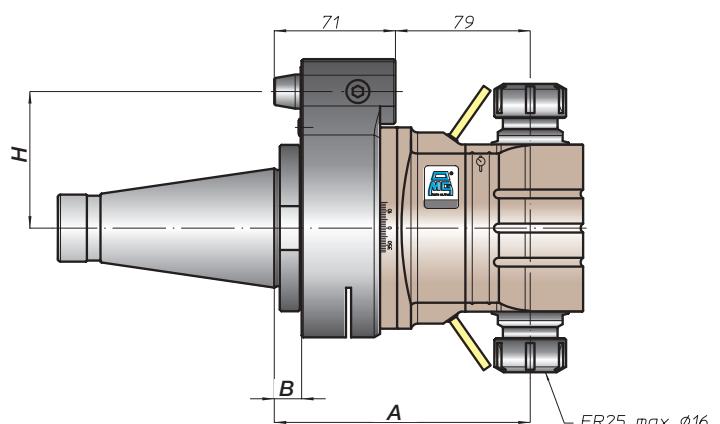
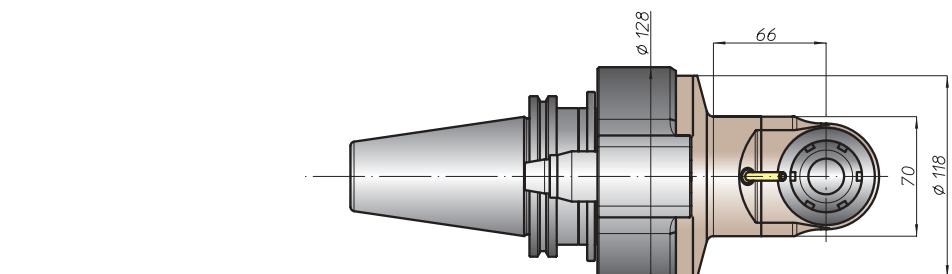
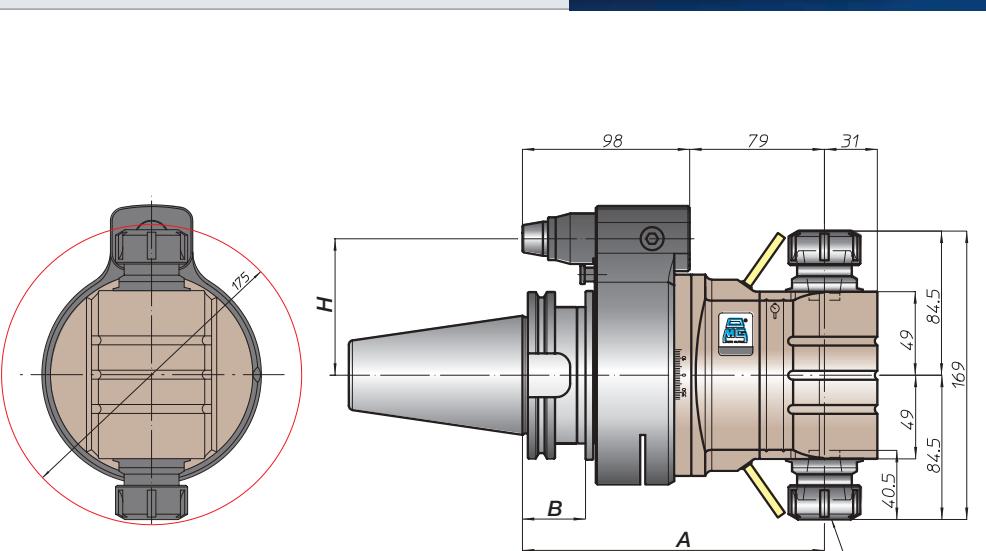
7,7 kg 12,2 kg

## prestazioni/performances



	CONO SHANK	size	A	B	standard	optional	H
DIN69871 *	-		172		65	-	
	40						
	45		177		80	110	
	50						
ANSI/S5.50 *	40	172			65	-	
	50	177			80	110	
* BT	40	172			65		
	50	185	45	80		110	
DIN69893	63	181	44	65			
	80	186	46	80		110	
	100						
ISO26623	C5	176			65		
	C6	181	39				
	C8				80	110	
KM	63	172			65		
	80	177			80	110	
	100						
DIN2080	-		147	13	65	-	
	40						
	-		150	16	80	110	
	50						
ANSI/S5.18	40	142	13	65		-	
	50	150	16	80		110	

★ Option: Dual Contact



## TA20.2P



## caratteristiche/features



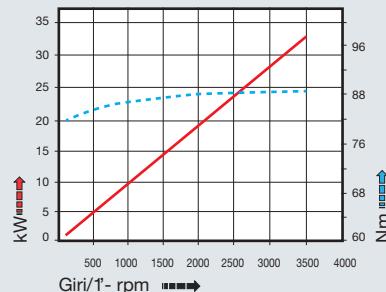
## peso/weight



rotazione/rotation

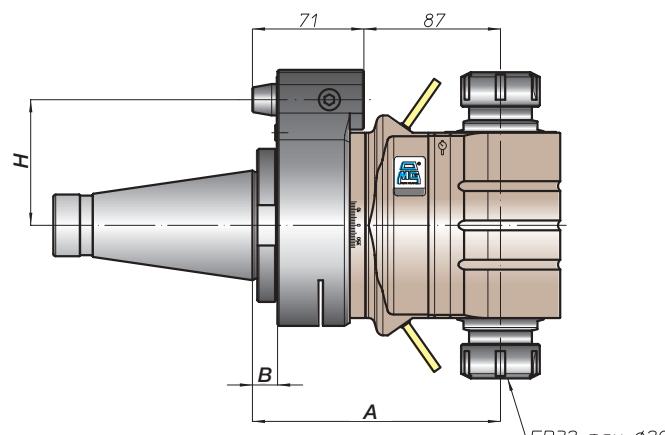
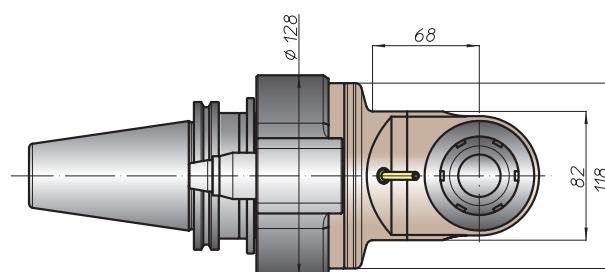
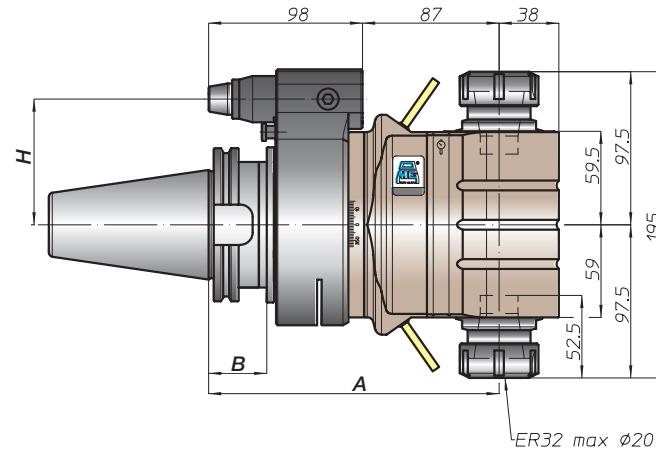
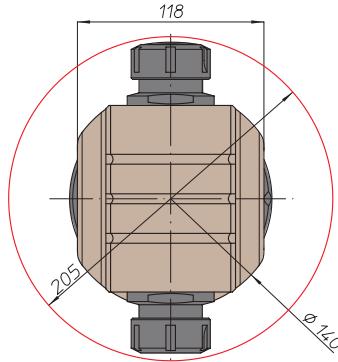


## prestazioni/performances



## tipi mandrino disponibili / available spindle types

- 2 Albero portafrese Milling shaft    3 Weldon Whistle-Notch

 $\varnothing 32$  $\varnothing 20$ 

CONO SHANK	size	A	B	H standard	H optional
DIN9871 *	-			-	-
	45				
	50	185	35	80	110
ANSIB5.50 *	-			-	-
	50			80	110
BT *	-			-	
	50	193	45	80	110
HSK	-			-	-
	80	194		46	80 110
	100				
CAPTO	-			-	
	-	189			
ISO26623				80	110
	C8				
KM	-			-	
	80	185			
	100			80	110
DIN2080	-			-	-
	-				
	-				
	50	158	16	80	110
NMTB	-			-	-
	50	158	16	80	110
ANSIB5.18					

\* Option: Dual Contact

# TA26.2P



## caratteristiche/features



ø 26 M20 3020 N



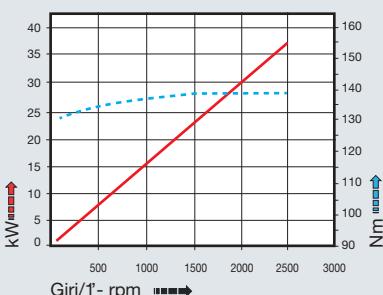
1-1 2500

## peso/weight



22,5 kg

## prestazioni/performances



## rotazione/rotation



input output

CONO SHANK	size	A	B	H	standard	optional
DIN69871 *	-	192	35	110		
	45					
	50					
ANSI5.50 *	CAT	50	110	110		
	BT					
HSK	-	201	46	110		
	80					
	100					
CAPTO	-	196	110	110		
	C8					
KM	-	192	110	110		
	-					
	100					
DIN2080	-	165	16	110		
	-					
	-					
	50					
NMTB	-	165	16	110		
	ANSI5.18					

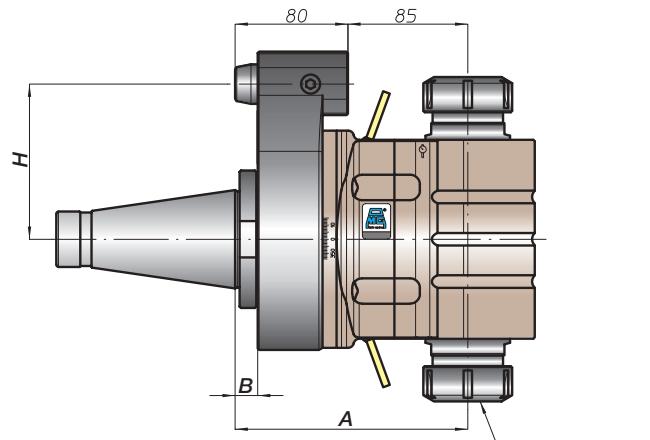
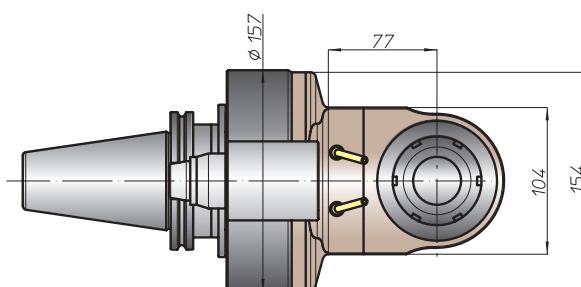
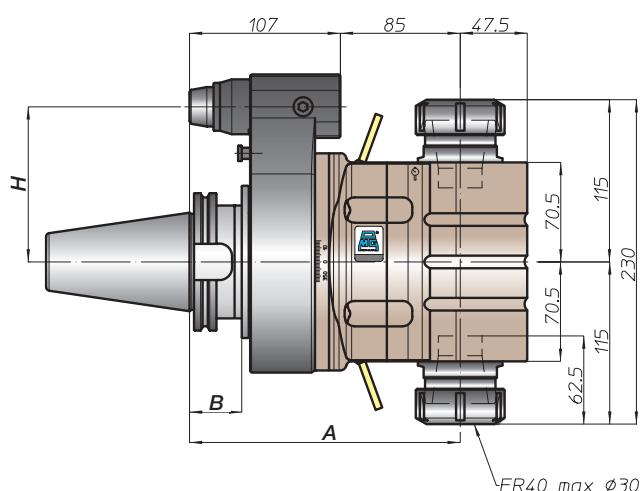
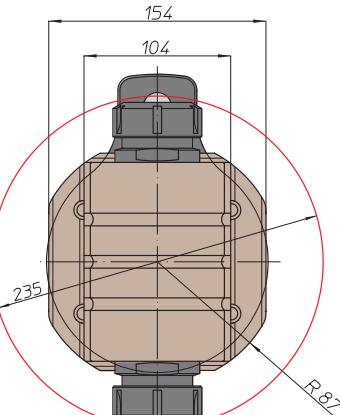
★ Option: Dual Contact

## tipi mandrino disponibili / available spindle types

Ø16-Ø27-Ø32

Ø32

ABS50



FH

BAH

TA.CP

TA

MO

VH

TSI/TSX

T

Accessori  
AccessoriesAppendice tecnica  
Technical supplement

4-35

## TA07.PD



## caratteristiche/features



ø 7 M6 180 N



1-1 10000 10 bar

## peso/weight



40



50

7 kg

rotazione/rotation

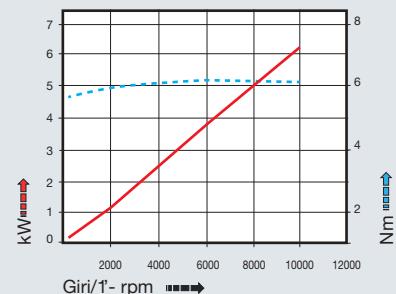
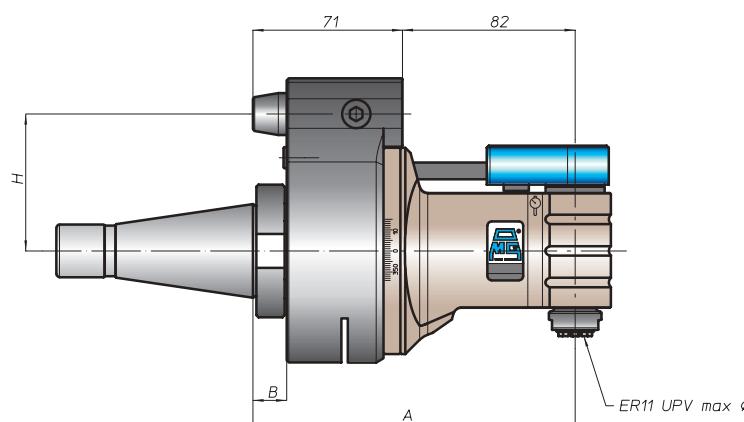
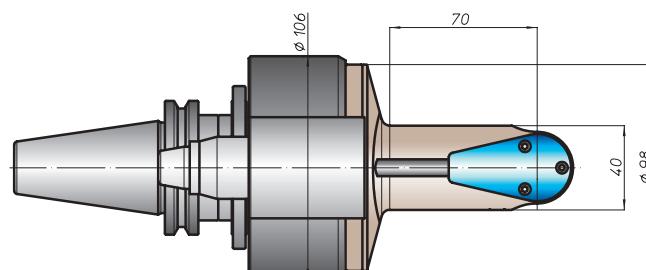
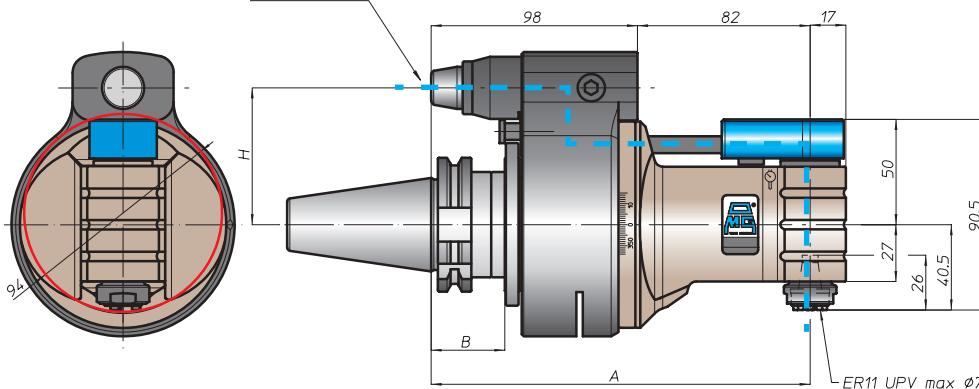


input



output

## prestazioni/performances

refrigerante  
coolant way

CONO SHANK	size	A	B	H	Standard	Optional
DIN9871 *	30			65	-	
	40			80	110	
	45					
	50	150	35			
ANSIB5.50 *	40			65	-	
	50			80	110	
BT *	40			65		
	50	158	45	80	110	
HSK	63			65		
	80	159		80	110	
	100					
DIN69893						
CAPTO	C5			65		
	C6	154	39			
	C8			80	110	
KM	63			65		
	80	150		80	110	
	100					
DIN2080						
	-	120	13	65	-	
	40					
	-	123	16	80	110	
	50					
NMTB	40	120	13	65	-	
	50	123	16	80	110	
ANSIB5.18						

\* Option: Dual Contact

# TA07.PDL

## caratteristiche/features



ø 7 M6 180 N



1-1 10000 10 bar

## peso/weight



6,7 kg



9 kg

## rotazione/rotation

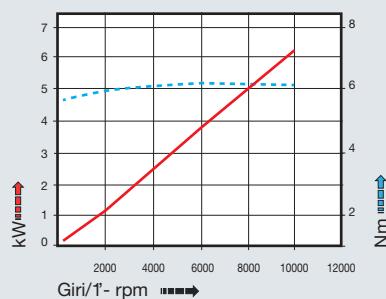


input



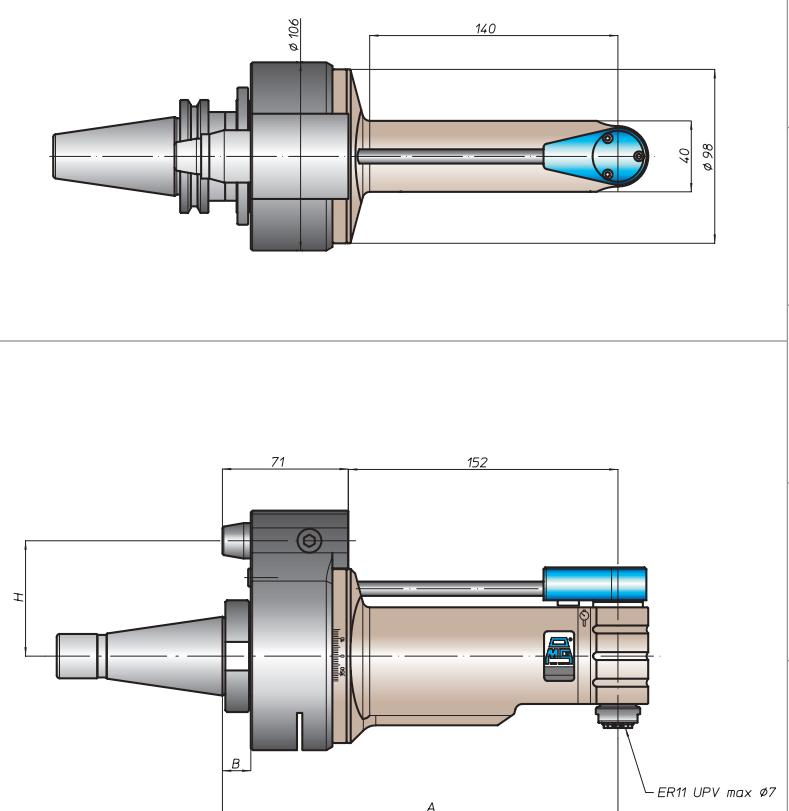
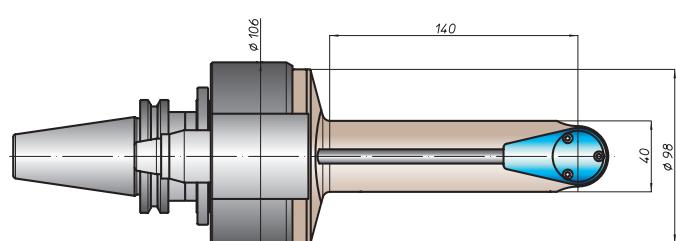
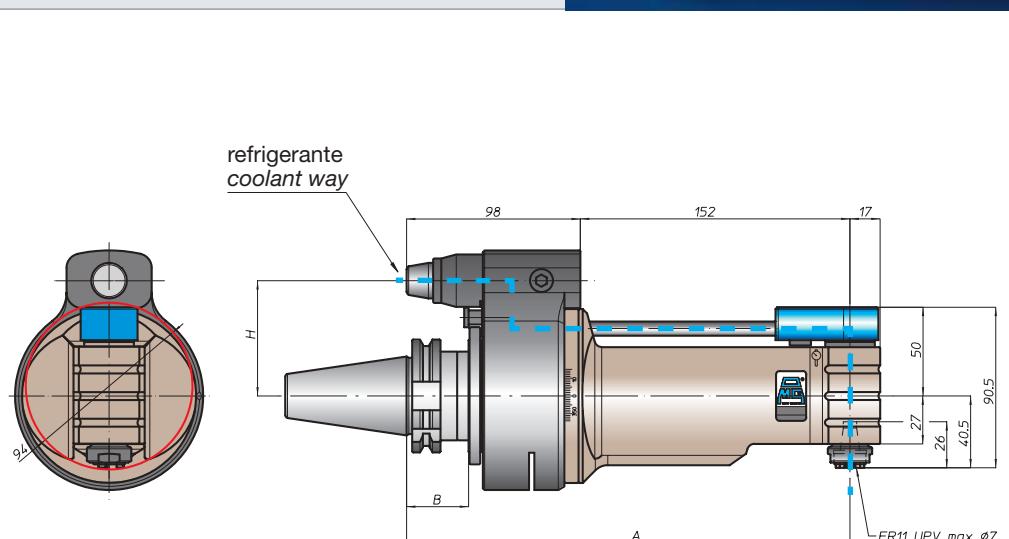
output

## prestazioni/performances



			H		
CONO SHANK	size	A	B	standard	optional
DIN69871 *	-			65	-
	40				
	45				
	50	250	35	80	110
ANSI/B5.50 *	40			65	-
	50			80	110
* BT	40			65	
	50	258	45	80	110
DIN69893	63			65	
	80	259	44	80	110
	100				
ISO26623	C5			65	
	C6	254	39		
	C8			80	110
KM	63			65	
	80	250		80	110
	100				
DIN2080	-			65	
	40	220	13	80	110
	-	223	16		
	50				
ANSI/B5.18	40	220	13	65	-
	50	223	16	80	110

★ Option: Dual Contact





## TA10.PD

## caratteristiche/features



ø 10 M8 400 N



1-1 10000 10 bar

## peso/weight



40

5,8 kg



50

8 kg

## rotazione/rotation



IN

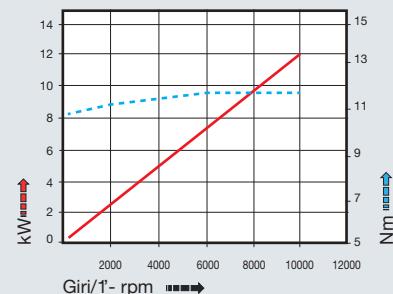
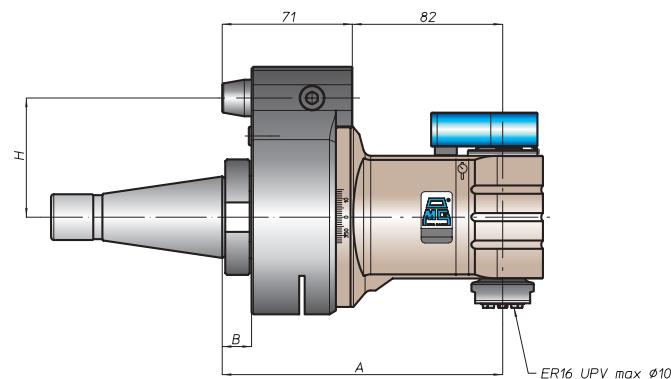
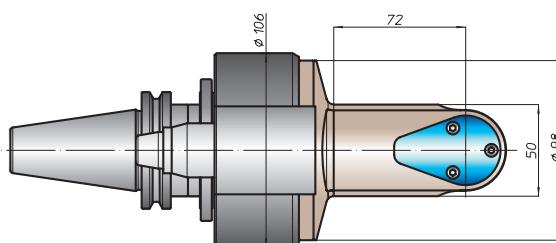
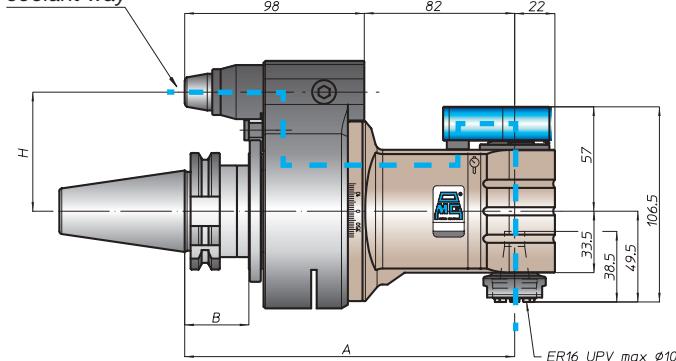


OUT

input

output

## prestazioni/performances

refrigerante  
coolant way

CONO SHANK	size	A	B	H	standard	optional
DIN69871 *	30			65	-	
	40			80	110	
	45					
	50	180	35			
ANSIB5.50 *	40			65	-	
	50			80	110	
BT *	40			65		
	50	188	45	80	110	
HSK	63			65		
	80	189		80	110	
	100					
DIN69893						
CAPTO	C5			65		
	C6	184	39			
	C8			80	110	
KM	63			65		
	80	180		80	110	
	100					
DIN2080						
	-	150	13	65	-	
	40					
	-	153	16	80	110	
	50					
NMTB	40	150	13	65	-	
ANSIB5.18	50	153	16	80	110	

\* Option: Dual Contact

# TA10.PDL

## caratteristiche/features



ø 10 M8 400 N



1-1 10000 10 bar

## peso/weight



40

7,7 kg



50

10 kg

## rotazione/rotation

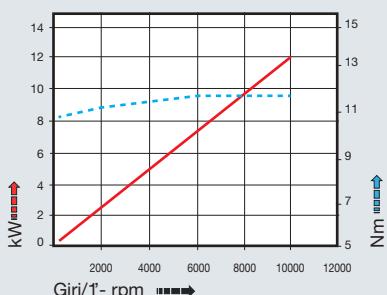


input



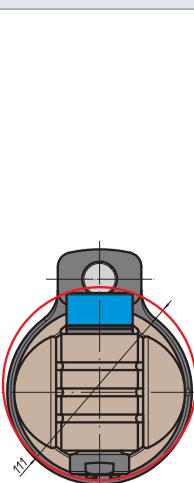
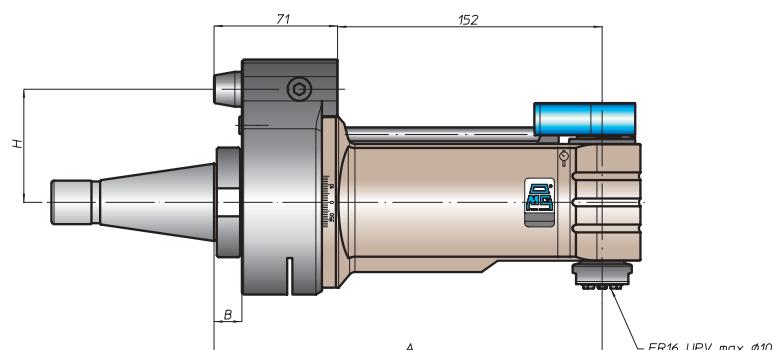
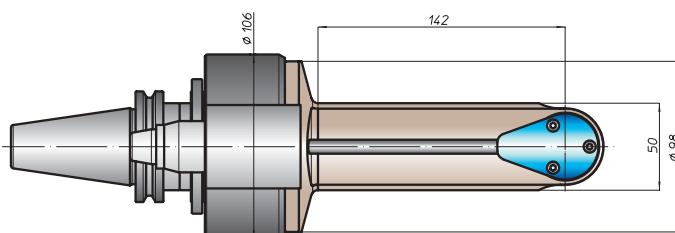
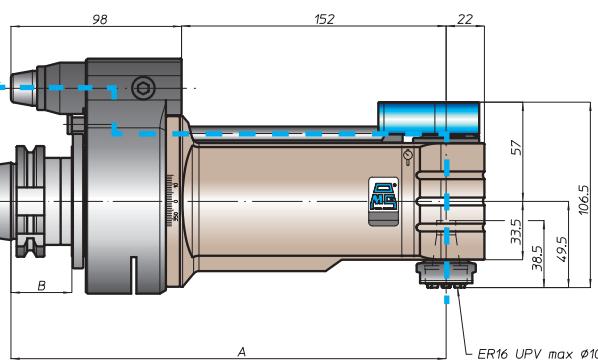
output

## prestazioni/performances



CONO SHANK	size	H		standard	optional
		A	B		
DIN69871 *	-	250	35	65	-
	40				
	45			80	110
	50			65	-
ANSI/B5.50 *	40	258	45	80	110
	50			65	
* BT	40	258	45	80	110
	50			65	
DIN69893	63	259	44	65	
	80			46	80
	100			80	110
ISO26623	C5	284	39	65	
	C6			80	110
	C8			80	110
KM	63	250	44	65	
	80			80	110
	100			80	110
DIN2080	-	220	13	65	-
	40			80	110
	-			80	110
	50			80	110
ANSI/B5.18	40	220	13	65	-
	50	223	16	80	110

★ Option: Dual Contact

refrigerante  
coolant way

FH

BAH

TA.CP

TA

MO

HT

TSI/TSX

TC3

Accessori  
AccessoriesAppendice tecnica  
Technical supplement



# TA13.PD

## caratteristiche/features



ø 13 M10 810 N



1-1 8000 10 bar

## peso/weight



6,5 kg



9 kg

## rotazione/rotation

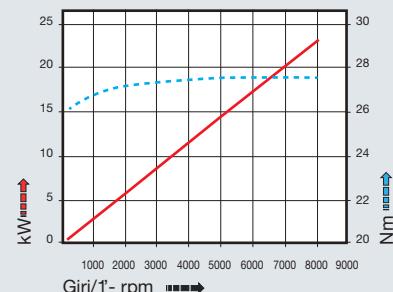
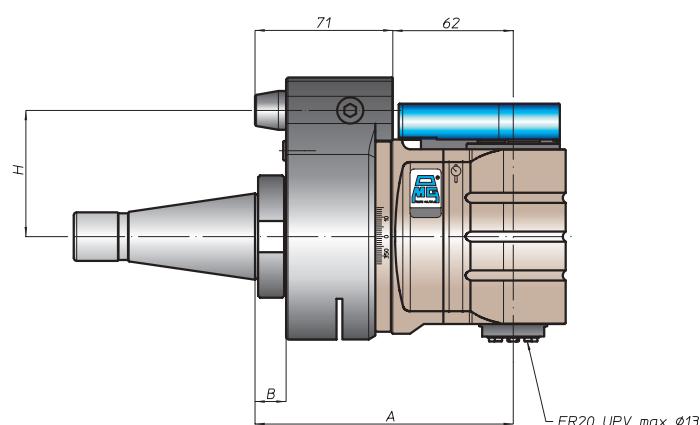
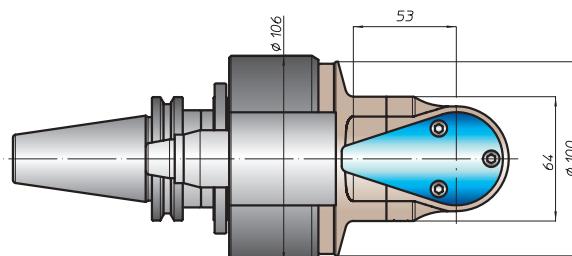
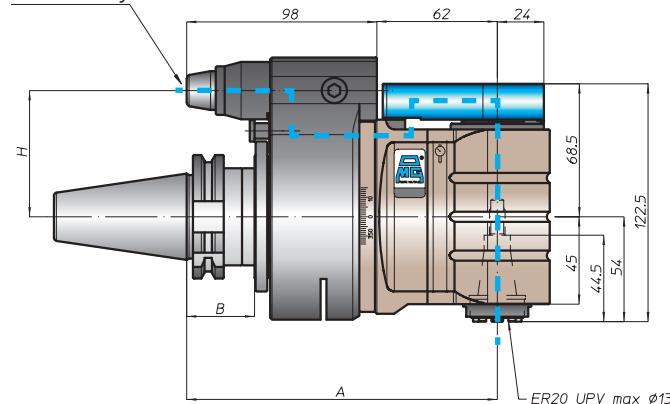


input



output

## prestazioni/performances

refrigerante  
coolant way

CONO SHANK	size	A	B	H	standard	optional
DIN98978 *	-			65	-	
	40			80	110	
	45			65	-	
	50	160	35	80	110	
CAT	40			65	-	
	50			80	110	
ANSIB5.50 *	40			65	-	
	50			80	110	
BT	40			65	-	
	50	168	45	80	110	
HSK	63			65	-	
	80			80	110	
	100	169	46	80	110	
DIN69893				65	-	
CAPTO	C5			65	-	
	C6	164	39	80	110	
	C8			65	-	
KM	63			65	-	
	80			80	110	
	100	160		65	-	
DIN26623				65	-	
	-			130	13	65
	40			40	65	-
	-			133	16	80
	50			50	110	
DIN2080				130	13	65
NMTB	40	130	13	65	-	
	50	133	16	80	110	
ANSIB5.18	40	130	13	65	-	
	50	133	16	80	110	

\* Option: Dual Contact

# TA16.PD

## caratteristiche/features



ø 16 M12 1040 N



1-1 5000 10 bar

## peso/weight



7,7 kg



12 kg

## rotazione/rotation

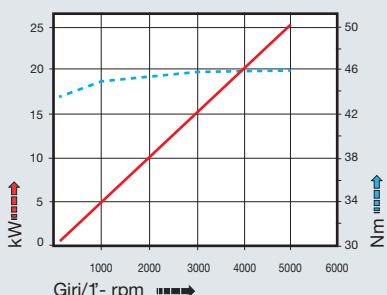


input



output

## prestazioni/performances



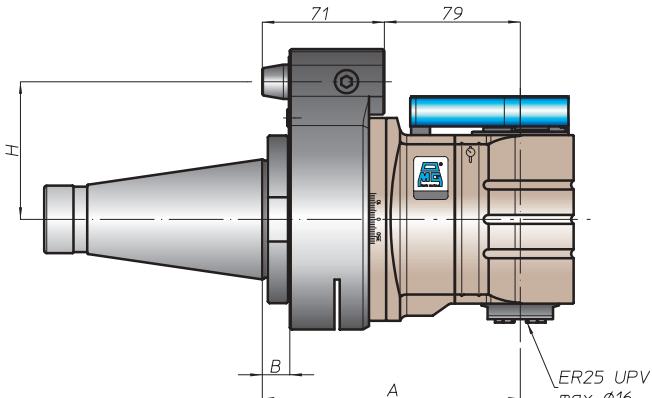
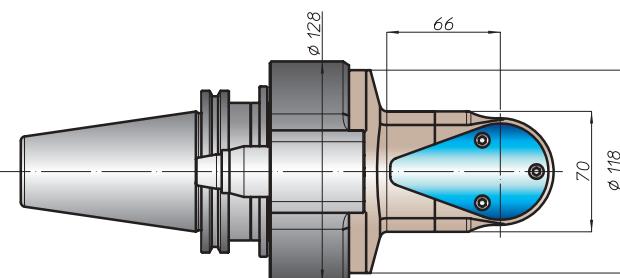
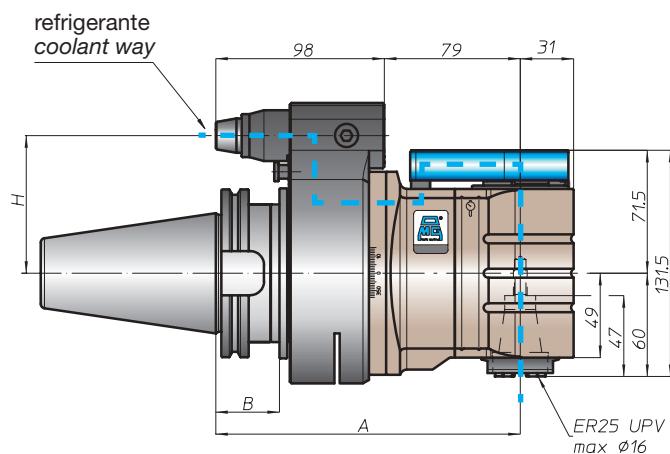
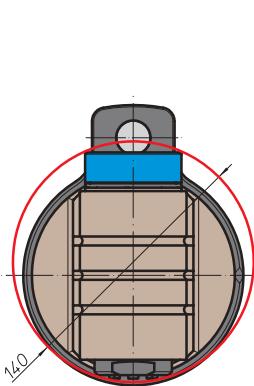
CONO SHANK	size	A	B	H	standard	optional	
DIN69871 *	-	172	35	65	110	-	
	40						
	45						
	50						
ANSIB5.50 *	40	172	45	80	110	-	
	50	177					
* BT	40	172	45	80	110	-	
	50	185					
	63	181		65	110		
	80	186	46				
DIN69893	100	186	46	80	110	-	
	C5	176	39	65	110		
	C6	181					
ISO26623	C8	181					
	63	172	44	65	110	-	
	80	177					
KM	100	172					
	-	147	13	65	-	-	
	40	150	16	80	110		
DIN2080	-	147	13	65	-	-	
	50	150	16	80	110		
	40	142	13	65	-		
ANSIB5.18 NMTB	50	150	16	80	110	-	
	40	142	13	65	-		

★ Option: Dual Contact

## tipi mandrino disponibili / available spindle types

1 DIN6388-ER

ER32



FH

BAH

TA.CP

MO

HT

TSI/TSX

T

Accessori  
AccessoriesAppendice tecnica  
Technical supplement

4-41

# TA20.PD



## caratteristiche/features



Ø 20



M14



1460 N



1-1



3500



10 bar

## peso/weight



50

kg

14,5 kg

## rotazione/rotation

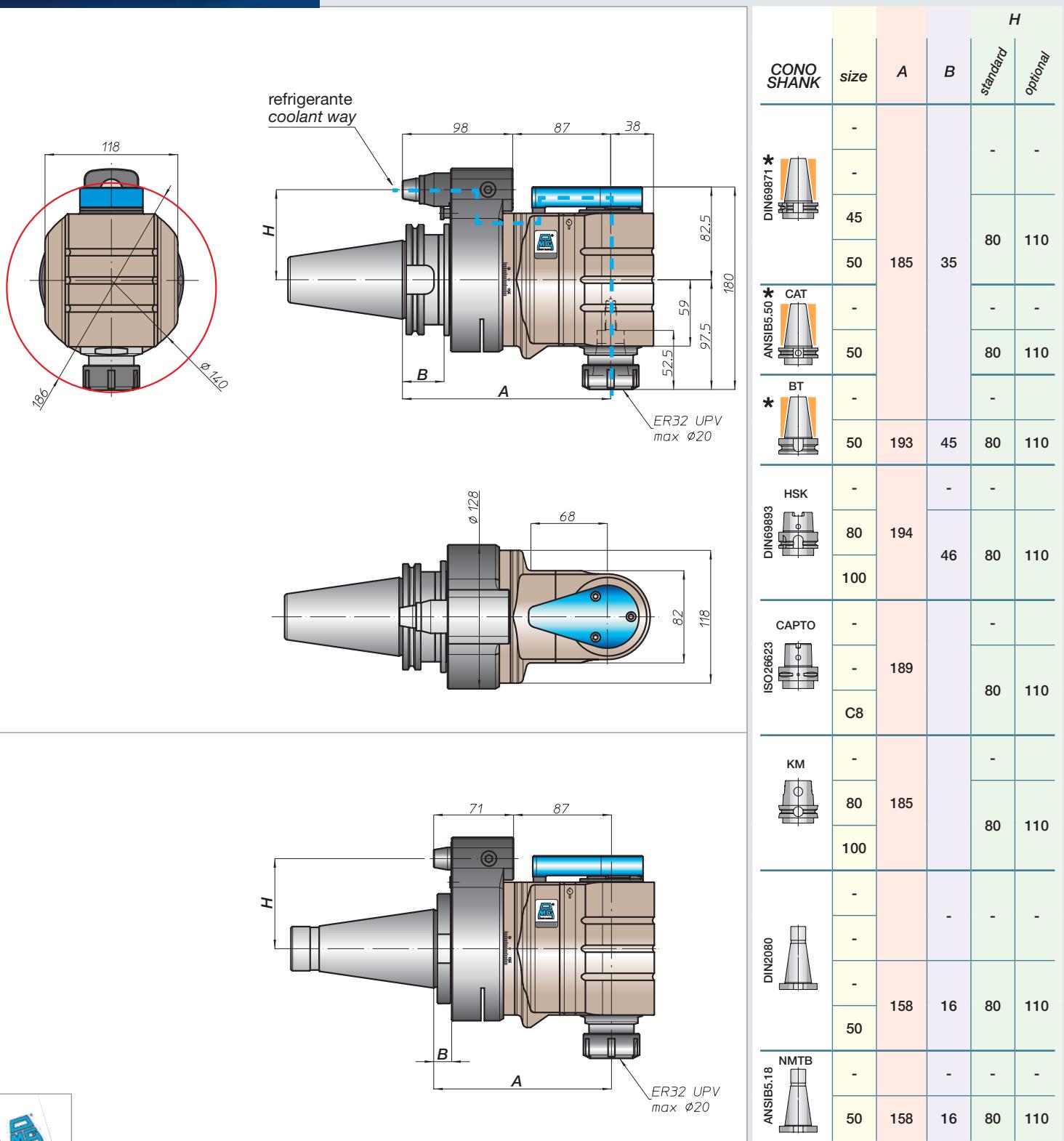
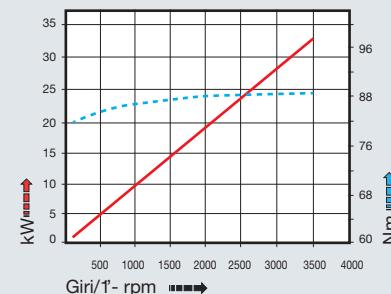


input



output

## prestazioni/performances



★ Option: Dual Contact



# TA26.PD

## caratteristiche/features



ø 26 M20 3020 N



1-1 2500 10 bar

## peso/weight



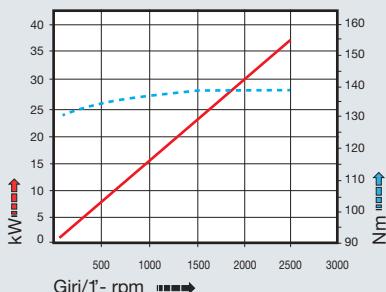
22 kg

## rotazione/rotation



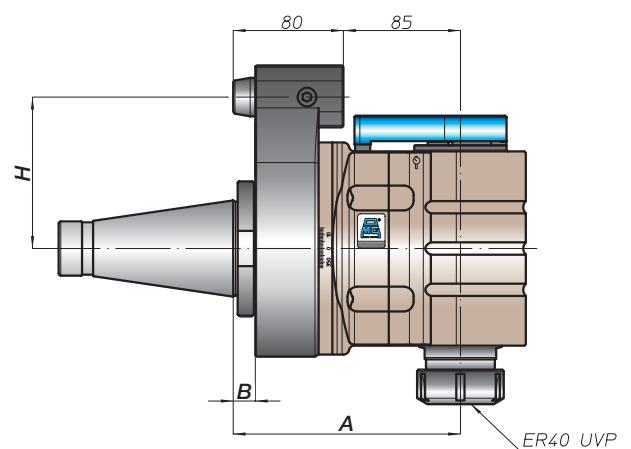
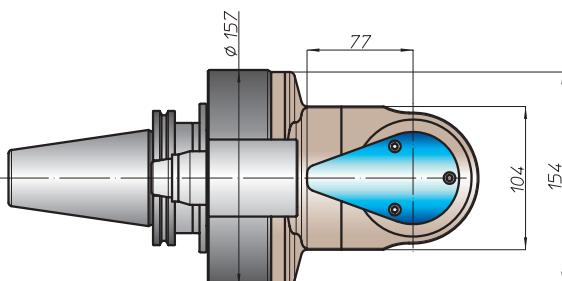
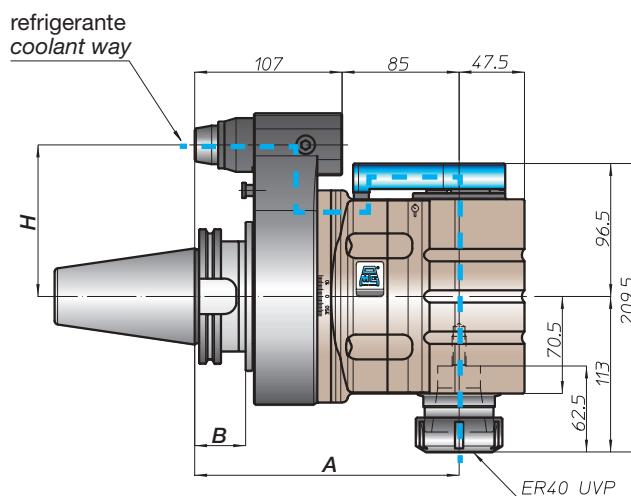
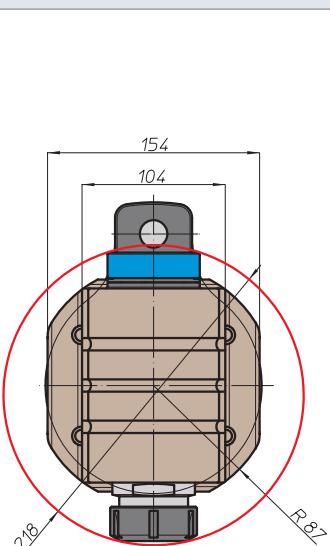
input

## prestazioni/performances



CONO SHANK	size	H		standard	optional
		A	B		
DIN69871 *	-	192	37	110	-
	45				
ANSIB5.50 *	-	50	110	-	-
	CAT				
* BT	-	200	45	110	-
	50				
HSK	-	201	46	110	-
	80				
ISO26623	-	196	110	-	-
	C8				
KM	-	192	110	-	-
	100				
DIN2080	-	165	16	110	-
	-				
ANSIB5.18	-	50	165	16	110
	NMTB				

★ Option: Dual Contact

FH  
BAH  
TA.CP  
TA  
MO  
HT  
VH  
TSI/TSX  
T  
MT-Tc-Tc3  
Accessori  
Accessories  
Appendice tecnica  
Technical supplementAppendice tecnica  
Technical supplement



# TA26.40.D

## caratteristiche/features

- 
- 
- 
- Ø 26**
- M20**
- 3020 N**
- 
- 
- 
- 1-1**
- 2500**
- 40 bar**

## peso/weight

**22 kg**

## rotazione/rotation

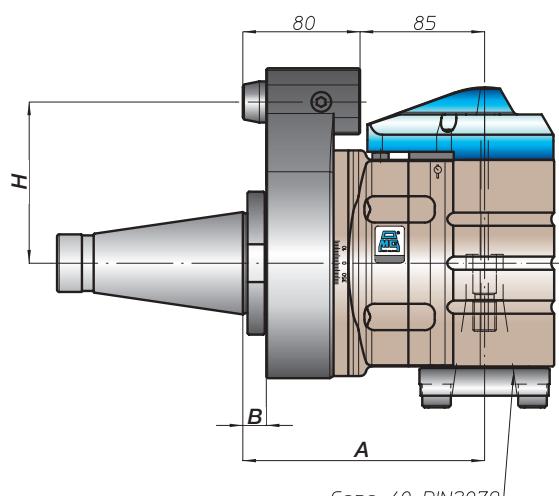
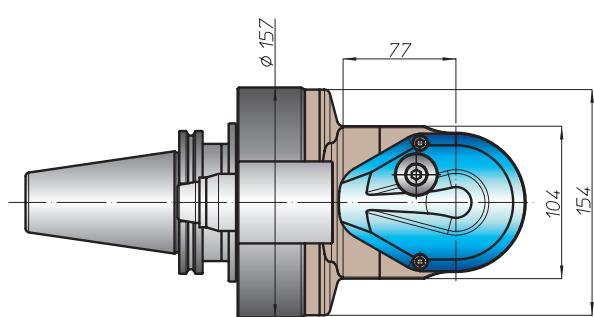
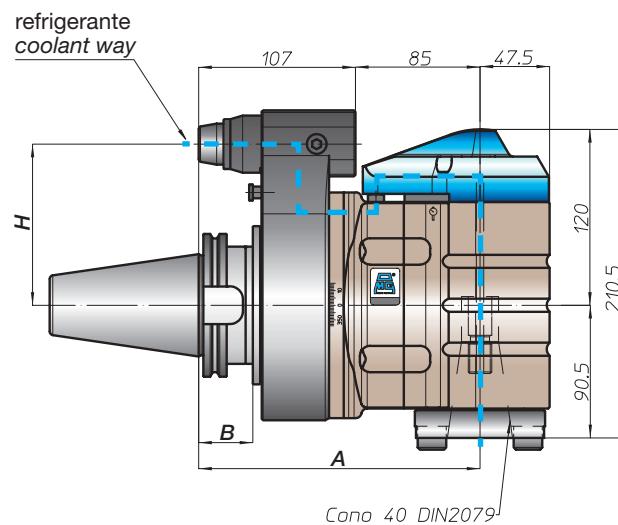
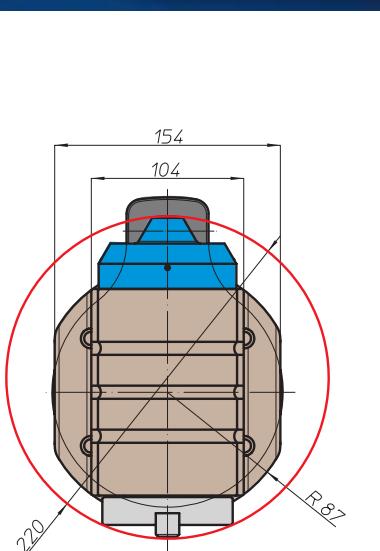
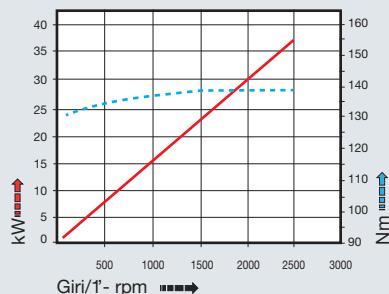


input



output

## prestazioni/performances



CONO SHANK	size	A	B	H
DIN9871 *	-			Standard
CAT	45			Optional
ANSI B5.50	50	192	37	110
BT	-			-
DIN69393	50	200	45	110
HSK	-	-	-	-
ISO26623	80	201	46	110
CAPTO	-			-
KM	100	192		110
DIN2080	-			-
NMTB	50	165	16	110
ANSI B5.18	50	165	16	110

★ Option: Dual Contact

FH

BAH

TA.CP

TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori  
Accessories

Appendice tecnica  
Technical supplement



# TAO10.P



## caratteristiche/features



ø 10 M8 500 N



1-1 6000

## peso/weight



6,2 kg



8,7 kg

## rotazione/rotation

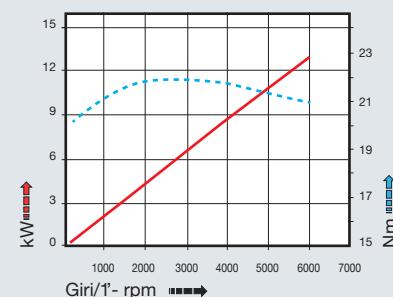


input



output

## prestazioni/performances



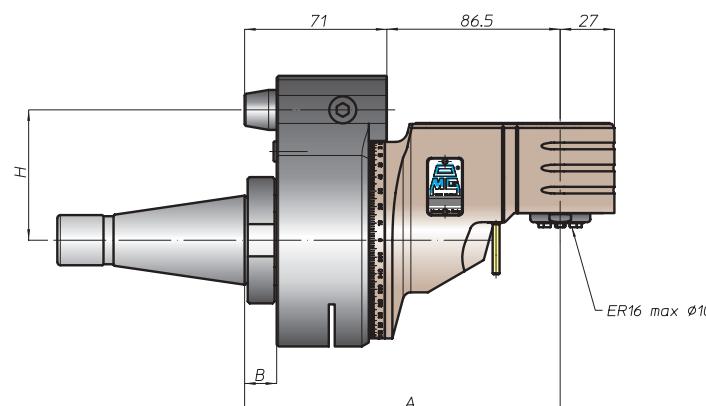
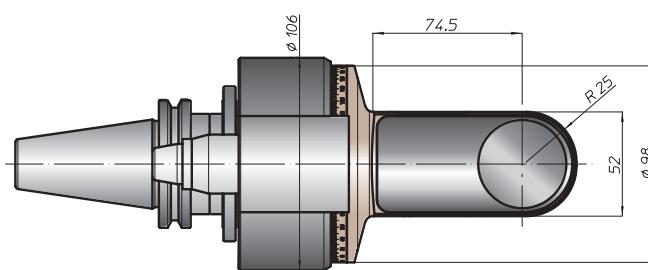
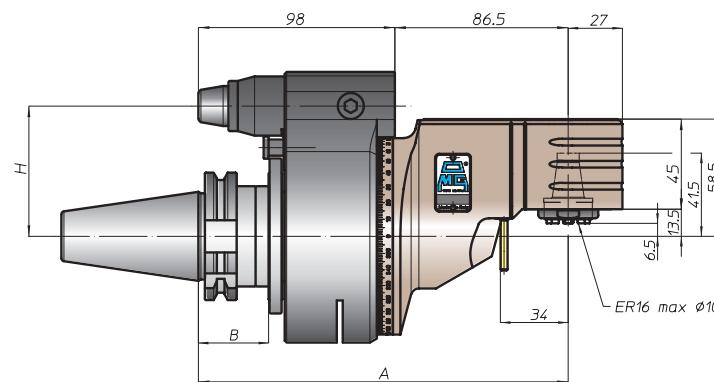
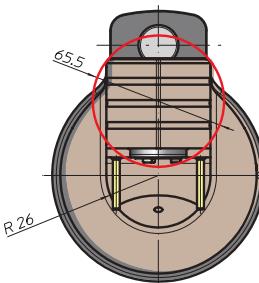
## tipi mandrino disponibili / available spindle types

2 Albero portafrese Milling shaft

4 DIN69893-HSK

Ø16

HSK25



CONO SHANK	size	A	B	H	standard	optional
DIN69871 *	-			65	-	
	40			80	110	
	45			65	-	
	50	184,5	35	80	110	
ANSIB5.50 *	40			65	-	
	50			80	110	
BT *	40			65		
	50	192,5	45	80	110	
HSK	63		44	65		
	80	193,5	46	80	110	
	100					
ISO26623	C5			65		
	C6	188,5	39	80	110	
	C8					
KM	63			65		
	80	184,5		80	110	
	100					
DIN2080	-		157,5	13	65	-
	40			40	110	
	-		160,5	16	80	110
	50					
ANSIB5.18	40	157,5	13	65	-	
	50	160,5	16	80	110	

\* Option: Dual Contact

# TA010.PD

## caratteristiche/features



ø 10 M8 500 N



1-1 6000 70 bar

## peso/weight



6,2 kg



8,7 kg

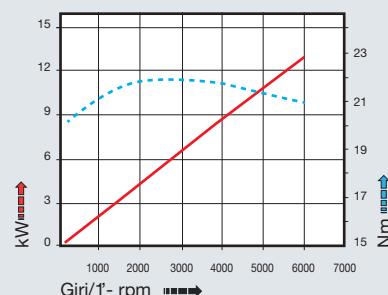
## rotazione/rotation



input

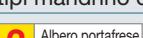
output

## prestazioni/performances

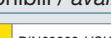


			H		
CONO SHANK	size	A	B	standard	optional
DIN69871 *	-			65	-
	40				
	45				
	50	184,5	35	80	110
ANSIB5.50 *	40			65	-
	50			80	110
* BT	40			65	
	50	192,5	45	80	110
DIN69893	63			65	
	80	193,5	44	80	110
	100				
ISO26623	C5			65	
	C6	188,5	39		
	C8			80	110
KM	63			65	
	80	184,5		80	110
	100				
DIN2080	-			-	-
	-			-	-
	-			-	-
	-			-	-
ANSIB5.18	NMTB			-	-
	ANSIB5.18			-	-

## tipi mandrino disponibili / available spindle types



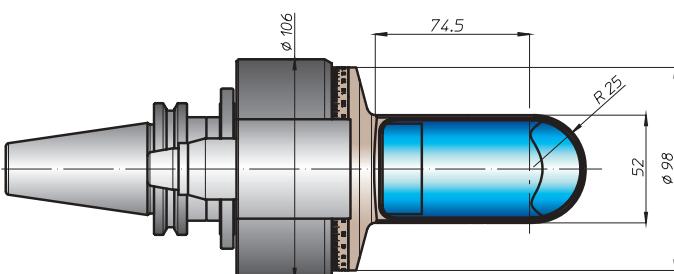
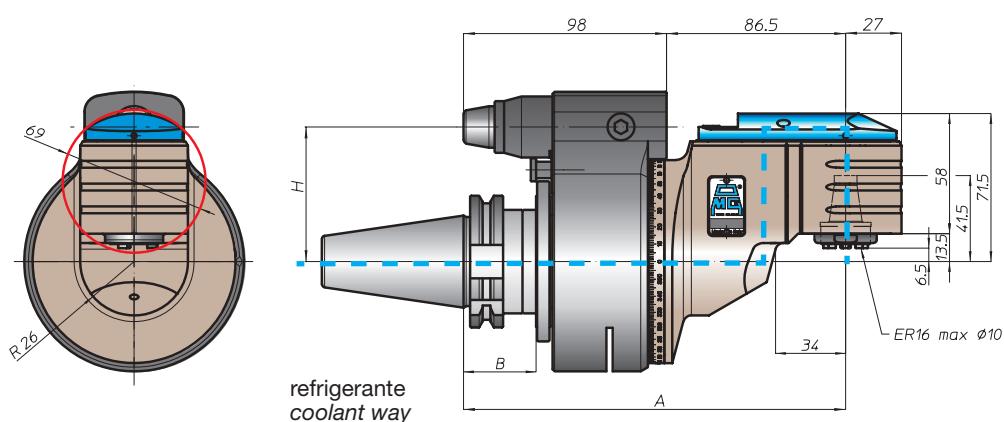
Milling shaft



HSK25

Ø16

HSK25



## TAO13.P



## caratteristiche/features



## peso/weight



7,5 kg



10,5 kg

## rotazione/rotation

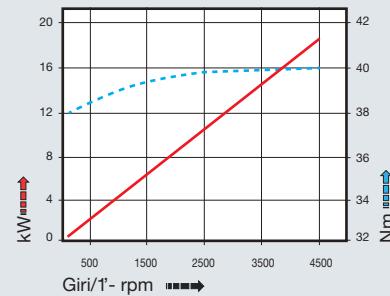


input



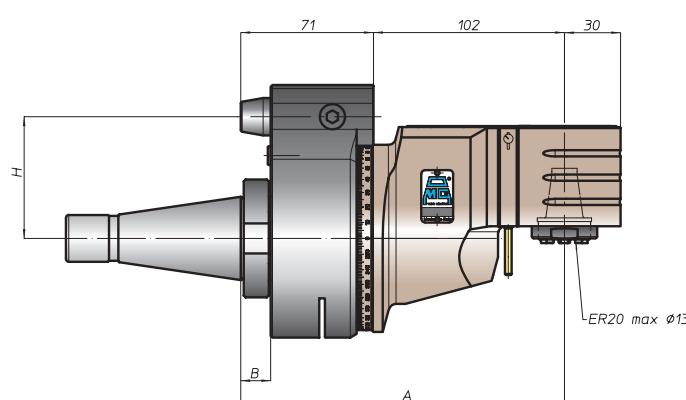
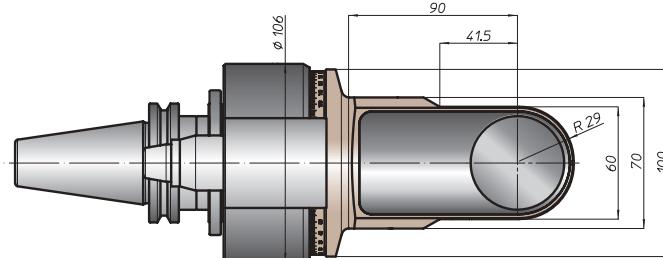
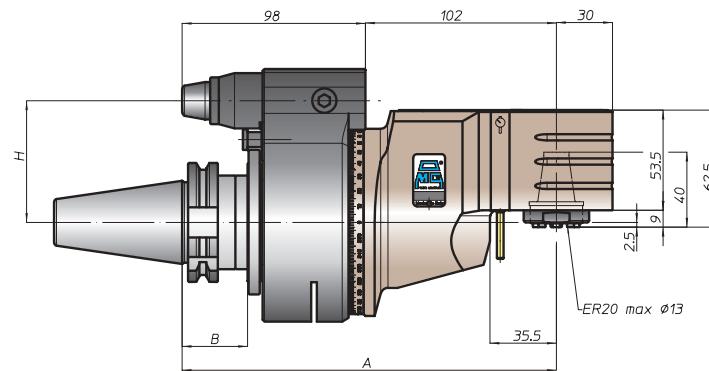
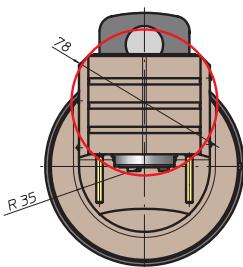
output

## prestazioni/performances



## tipi mandrino disponibili / available spindle types

- 2** Albero portafresa Milling shaft   **3** Weldon Whistle-Notch   **4** DIN69893-HSK
- $\varnothing 16$     $\varnothing 12$    HSK32



CONO SHANK	size	A	B	H	standard	optional
DIN9871 *	-			65	-	
	40			80	110	
	45			65	-	
	50	200	35	80	110	
ANSIB5.50 *	40			65	-	
	50			80	110	
BT *	40			65		
	50	208	45	80	110	
HSK	63			65		
	80	209		80	110	
	100			46		
DIN69893	C5			65		
	C6	204	39	80	110	
ISO26623	C8			80	110	
KM	63			65		
	80	200		80	110	
	100			170	13	65
DIN2080	-			176	16	80
	40					110
	-					
	50					
NMTB	40	173	13	65	-	
ANSIB5.18	50	176	16	80	110	

\* Option: Dual Contact

# TA013.PD

## caratteristiche/features



ø 13 M10 570 N



1-1 4500 70 bar

## peso/weight



7,5 kg



10,5 kg

## rotazione/rotation

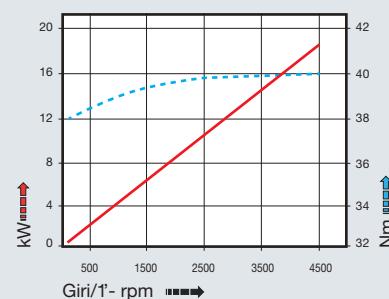


input



output

## prestazioni/performances



CONO SHANK	size	A	B	H	standard	optional
DIN69871 *	-	200	35	65	80	110
	40					
	45			80		
	50			110		
ANSIB5.50 *	40	208	45	65	80	110
	50			80		
* BT	40	208	45	65	80	110
	50			80		
DIN69893	63	209	46	44	65	
	80			80	110	
	100			110		
ISO26623	C5	204	39	65		
	C6			80	110	
	C8			110		
KM	63	200	80	65		
	80			80	110	
	100			110		
DIN2080	-	-	-	-	-	-
	-					
	-					
	-					
ANSIB5.18	NMTB	-	-	-	-	-
	ANSIB5.18					

★ Option: Dual Contact

## tipi mandrino disponibili / available spindle types

2 Albero portafresa Milling shaft

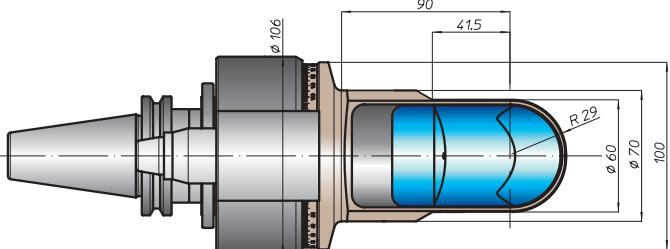
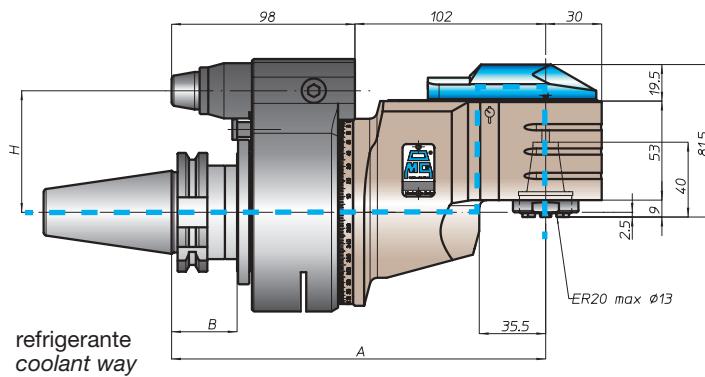
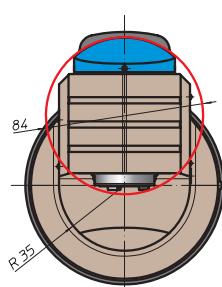
3 Weldon Whistle-Notch

4 DIN69893-HSK

Ø16

Ø12

HSK32



FH

BAH

TA.CP

MO

HT

TSI/TSX

T

Accessori  
AccessoriesAppendice tecnica  
Technical supplement

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# TAO16.P

## caratteristiche/features



$\varnothing 16$  M12 810 N



1-1 4000

## peso/weight



14 kg

## rotazione/rotation

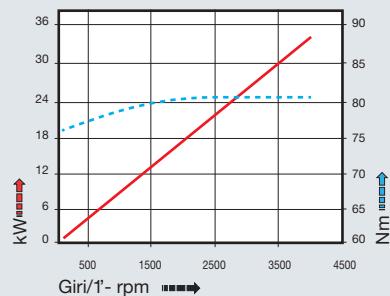


input



output

## prestazioni/performances



## tipi mandrino disponibili / available spindle types

2 Albero portafresa Milling shaft

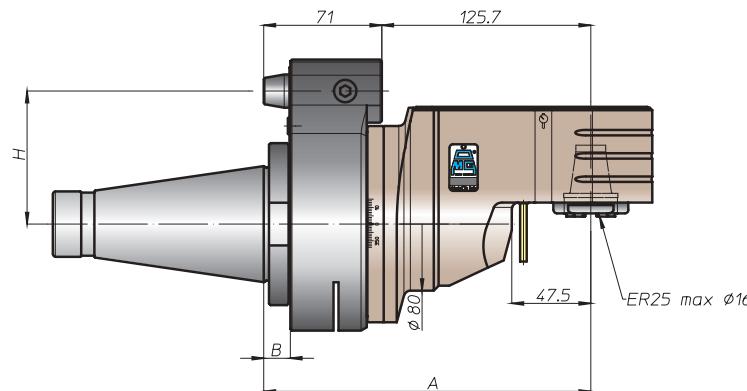
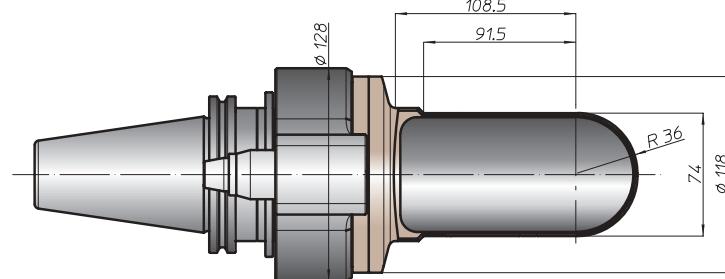
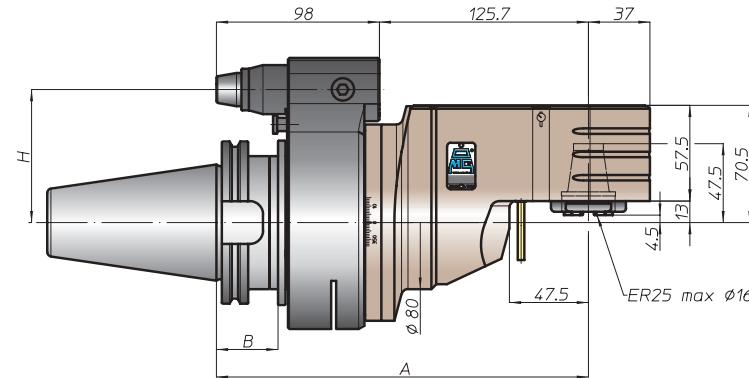
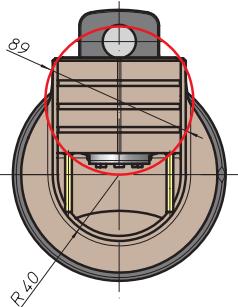
3 Weldon Whistle-Notch

4 DIN69893-HSK

$\varnothing 16\text{-}022\text{-}027$

$\varnothing 16$

HSK40



CONO SHANK	size	A	B	H	standard	optional
DIN9871 *	-				-	-
	45				80	110
	50	223,5	35		65	-
ANSIB6.50 *	CAT	-			80	110
	50				65	
BT *	50	231,5	45	80	110	
DIN9893	HSK	-			-	-
	80	232,5	46	80	110	
	100					
ISO26623	CAPTO	-		227,5	-	
	C8				80	110
KM	80	223,5			-	-
	100				80	110
DIN2080		-			-	-
	-				80	110
	-					
	50	199,5	16	80	110	
ANSIB18	NMTB	-			-	-
	50	199,5	16	80	110	

\* Option: Dual Contact

# TA016.PD



## caratteristiche/features



ø 16 M12 810 N



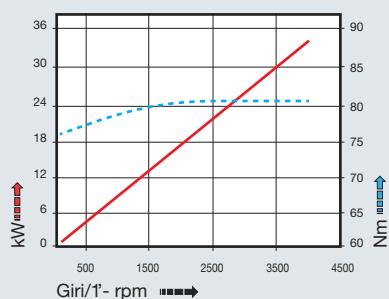
1-1 4000 70 bar

## peso/weight



14 kg

## prestazioni/performances



## rotazione/rotation



input

output

			H		
CONO SHANK	size	A	B	standard	optional
DING9871 *	-				
	45				
	50	223,5	35	80	110
ANSIB5.50 *	CAT	-			
	50	50		65	-
* BT	-				
	50	231,5	45	80	110
DIN6993	-				
	80	232,5	46	80	110
ISO26623	-				
	C8	227,5		80	110
KM	-				
	80	223,5			
	100			80	110
DIN2080	-				
	-	-		-	-
	-	-		-	-
	-	-		-	-
NMTB	-	-	-	-	-
ANSIB5.18	-	-	-	-	-

## tipi mandrino disponibili / available spindle types

Ø16-Ø22-Ø27

Ø16

HSK40

2 Albero portafresa  
Milling shaft3 Weldon  
Whistle-Notch

4 DIN69893-HSK

HSK

CAPTO

KM

DIN2080

NMTB

ANSIB5.18

\*

Option: Dual Contact

Accessori  
AccessoriesAppendice tecnica  
Technical supplement

4-51

VH

HT

MO

TA

TA.CP

BAH

FH

TSI/TSX

T

MT-Tc-Tc3

T

VH

HT

MO

TA

TA.CP

BAH

FH

TSI/TSX

T

VH

HT

MO

TA

TA.CP

BAH

FH

TSI/TSX

T

VH

HT

MO

TA

TA.CP

BAH

FH

TSI/TSX

T

VH

HT

MO

TA

TA.CP

BAH

FH

TSI/TSX

T

VH

HT

MO

TA

TA.CP

BAH

FH

TSI/TSX

T

VH

HT

MO

TA

TA.CP

BAH

FH

TSI/TSX

T

VH

HT

MO

TA

TA.CP

BAH

FH

TSI/TSX

T

VH

HT

MO

TA

TA.CP

BAH

FH

TSI/TSX

T

VH

HT

MO

TA

TA.CP

BAH

FH

TSI/TSX

T

VH

HT

MO

TA

TA.CP

BAH

FH

TSI/TSX

T

VH

HT

MO

TA

TA.CP

BAH

FH

TSI/TSX

T

VH

HT

MO

TA

TA.CP

BAH

FH

TSI/TSX

T

VH

HT

MO

TA

TA.CP

BAH

FH

TSI/TSX

T

VH

HT

MO

TA

TA.CP

BAH

FH

TSI/TSX

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TA.CP

BAH

FH

TSI/TSX

T

VH

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MO

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TA.CP

BAH

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TSI/TSX

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BAH

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TSI/TSX

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TSI/TSX

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VH

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TA

TA.CP

BAH

FH



# TAO20.P

## caratteristiche/features



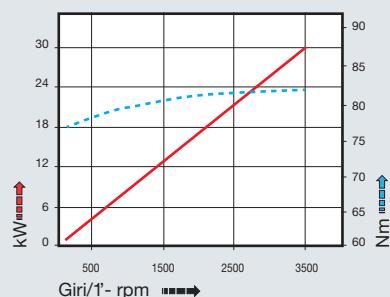
## peso/weight



rotazione/rotation

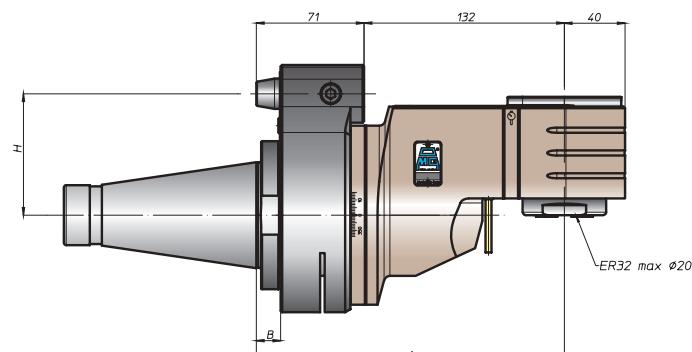
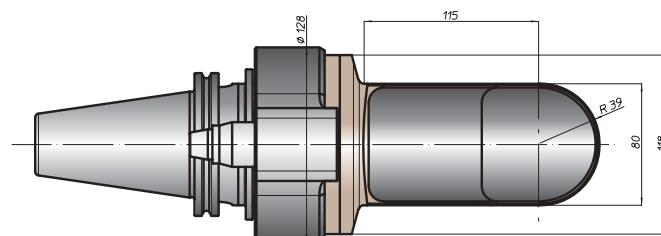
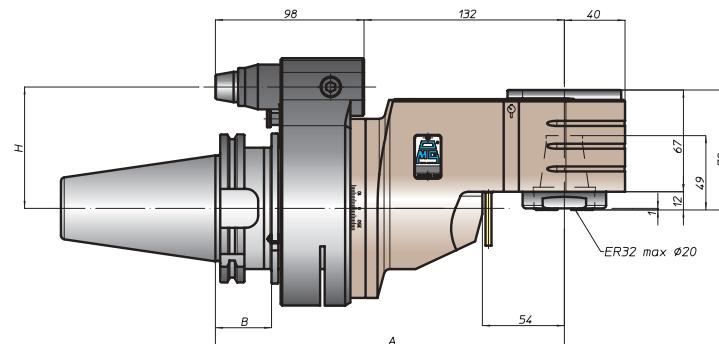
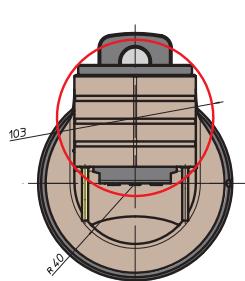


## prestazioni/performances



## tipi mandrino disponibili / available spindle types

- 2** Albero portafrese Milling shaft   **3** Weldon Whistle-Notch   **4** DIN69893-HSK
- $\varnothing 22\text{-}027\text{-}032$     $\varnothing 16\text{-}020$    HSK50



CONO SHANK	size	A	B	H	standard	optional
DIN9871 *	-				-	-
	45				80	110
	50	230	35		-	-
ANSIB5.50 *	CAT	-			80	110
	50				-	-
BT *	50	238	45	80	110	
HSK	-				-	-
DIN9893	80	239	46	80	110	
	100				-	-
CAPTO	-				-	-
ISO26623	C8	234			80	110
KM	80	230			-	-
	100				80	110
DIN2080	-				-	-
	-				80	110
	-				-	-
	50	203	16	80	110	
NMTB	-				-	-
ANSIS.18	50	203	16	80	110	

\* Option: Dual Contact

# TA020.PD

## caratteristiche/features



## peso/weight



15 kg

## rotazione/rotation

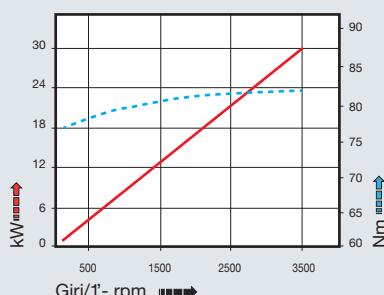


input



output

## prestazioni/performances



CONO SHANK	size	H		standard	optional
		A	B		
DIN69871 *	-	230	35	80	110
	-				
	45				
	50				
ANSI5.50 *	CAT	238	45	80	110
	50				
* BT	-	238	45	80	110
	50				
DIN69893	HSK	239	46	80	110
	-				
	80				
ISO26623	80	234	46	80	110
	100				
CAPTO	-	234	46	80	110
	C8				
KM	-	230	46	80	110
	80				
	100				
DIN2080	-	230	46	80	110
	-				
	-				
	-				
ANSI5.18	NMTB	230	46	80	110
	18				

★ Option: Dual Contact

## tipi mandrino disponibili / available spindle types

Ø22-Ø27-Ø32

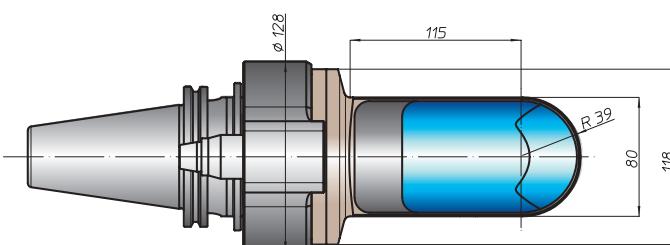
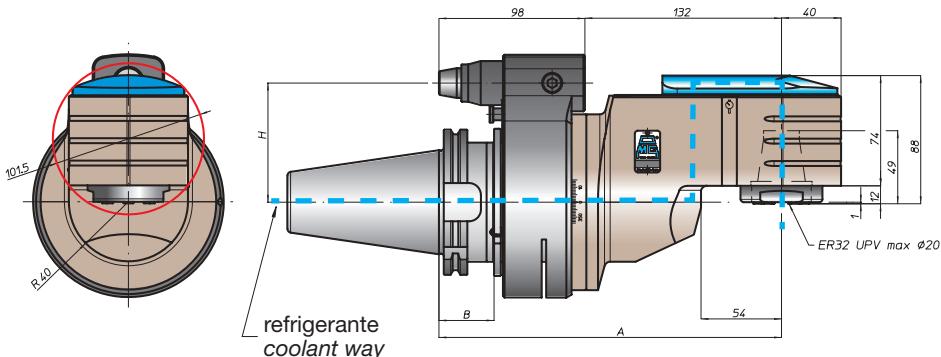
Ø16-Ø20

HSK50

2 Albero portafresa Milling shaft

3 Weldon Whistle-Notch

4 DIN69893-HSK



FH

BAH

TA.CP

MO

HT

TSI/TSX

T

Accessori  
AccessoriesAppendice tecnica  
Technical supplement

4-53



# TAO26.P



## caratteristiche/features



ø 26 M20 1590 N



1-1 3000

## peso/weight



24 kg

## rotazione/rotation

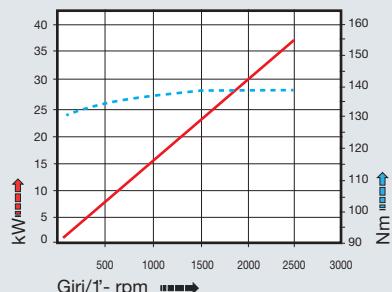


input



output

## prestazioni/performances



## tipi mandrino disponibili / available spindle types

2 Albero portafresa Milling shaft

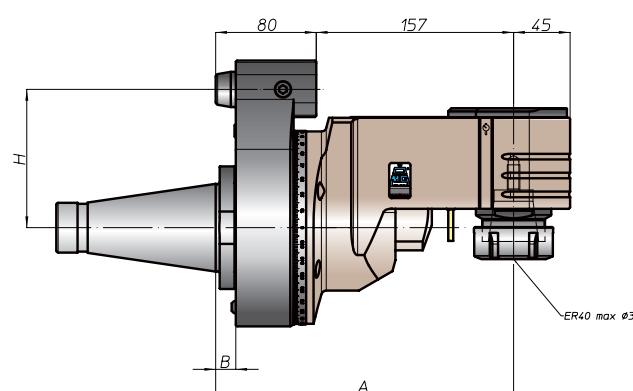
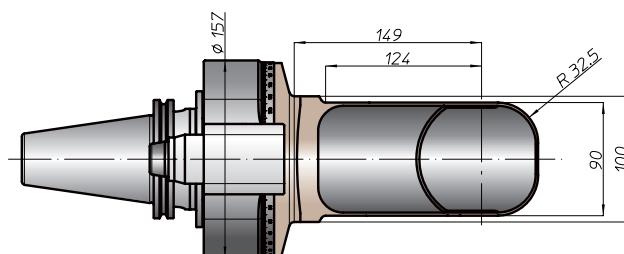
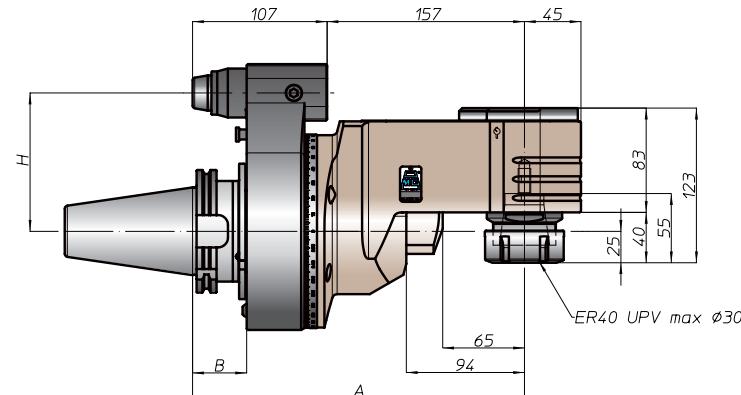
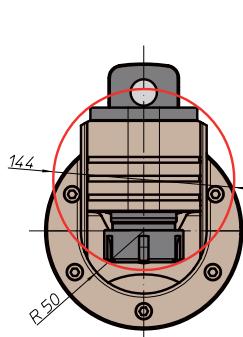
3 Weldon Whistle-Notch

4 DIN69893-HSK

Ø22-Ø27-Ø32

Ø16-Ø20

HSK63



CONO SHANK	size	A	B	H
				standard optional
DIN9871 *	-	-	-	-
ANSIB5.50 *	50	270	35	110 -
CAT	-	-	-	-
BT	50	278	45	110 -
HSK	-	-	-	-
DIN69893	-	-	-	-
	100	279	46	110 -
CAPTO	-	-	-	-
ISO26623	-	-	-	-
	C8	274	-	110 -
KM	-	-	-	-
	100	270	-	110 -
DIN2080	-	-	-	-
	50	243	16	110 -
NMTB	-	-	-	-
ANSIS5.18	50	243	16	110 -

\* Option: Dual Contact

# TA026.PD



## caratteristiche/features



## peso/weight



24 kg

## rotazione/rotation

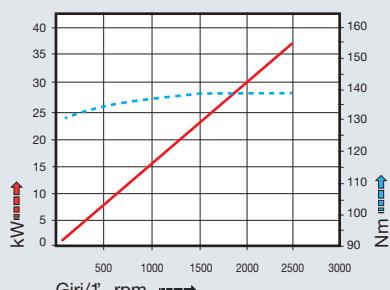


input



output

## prestazioni/performances



CONO SHANK	size	A	B	H	standard	optional
DIN69871 *	-	270	35	110	-	-
	-					
	50					
ANSIB5.50 *	-	50	110	-	-	-
	CAT					
* BT	-	278	45	110	-	-
	50					
DIN69893	-	279	46	110	-	-
	100					
ISO26623	-	274	110	-	-	-
	C8					
KM	-	270	110	-	-	-
	100					
DIN2080	-	-	-	-	-	-
	-					
	-					
	-					
NMTB	-	-	-	-	-	-
ANSIB5.18	-	-	-	-	-	-

## tipi mandrino disponibili / available spindle types

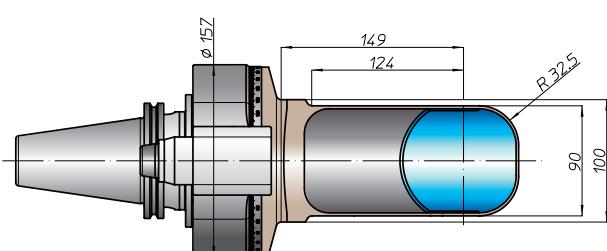
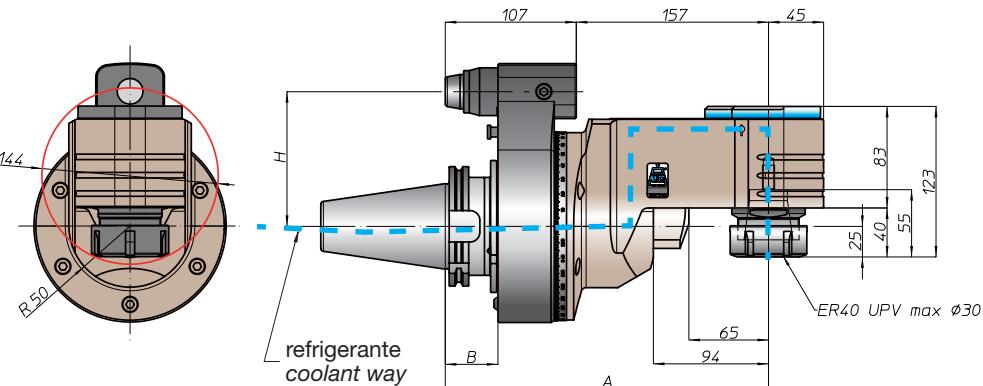
Ø22-Ø27-Ø32

Ø16-Ø20

HSK63

2 Albero portafresa  
Milling shaft3 Weldon  
Whistle-Notch

4 DIN69893-HSK



FH

BAH

TA.CP

TA

MO

HT

VH

TSI/TSX

T

Accessori  
AccessoriesAppendice tecnica  
Technical supplement

4-55



# TAV

## DIGITAL



**Nuovo standard nelle teste ad angolo variabile.**

La serie TAV si propone ora con un display per la visualizzazione dell'inclinazione del mandrino. La facilità di utilizzo, la precisione del sistema, l'ingombro estremamente ridotto consentirà agli utenti di registrare direttamente in macchina l'angolo della lavorazione che la Testa ad Angolo Variabile deve eseguire sul pezzo in modo semplice ed efficace.

Oggi sono disponibili i tre principali modelli di Teste ad Angolo Variabile: TAV10, TAV13 e TAV20.

Lo sviluppo di questa soluzione verrà presto trasportata a tutta la famiglia delle Teste ad Angolo della serie TAV.

**New standard system on TAV adjustable angle heads.**

The TAV series is now being enhanced with a display to check the spindle angle inclination. Both the user-friendliness and the precision, as well as the extremely reduced footprint of this new system, will allow the users to easily and effectively set the adjustable angle head directly on the machine prepared to machine pieces.

Nowadays the three major adjustable angle head models are available:  
TAV10, TA13 and TAV20.

And this new solution will be soon available on the whole range of TAV angle heads.



testa ad angolo - angle head

# TAV10.P



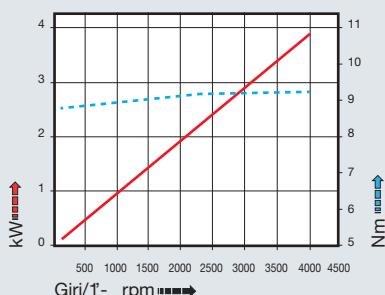
## caratteristiche/features



## peso/weight

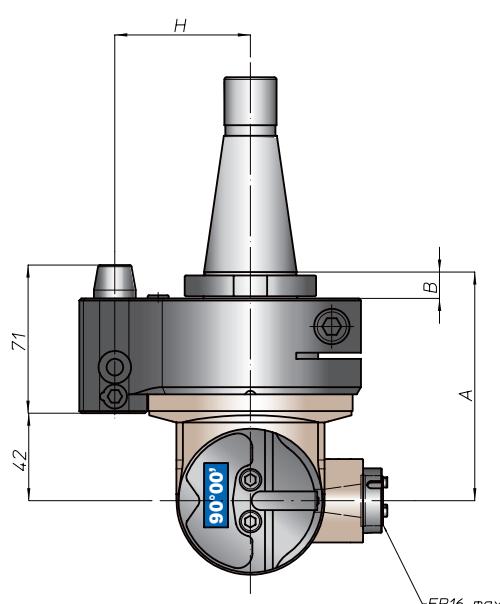
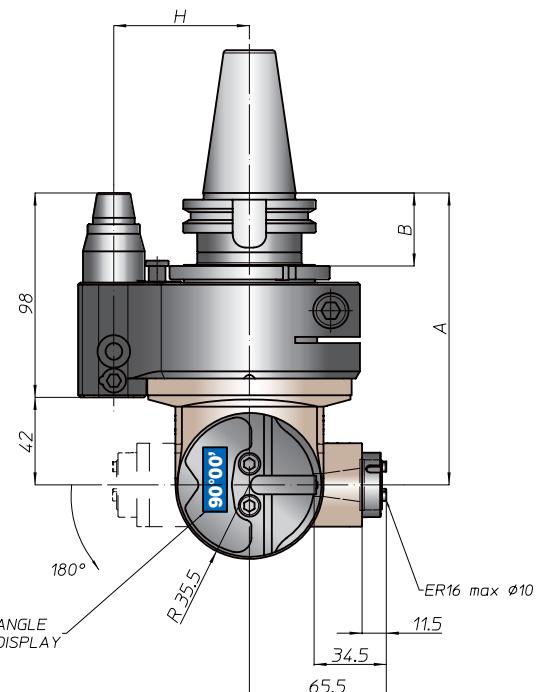
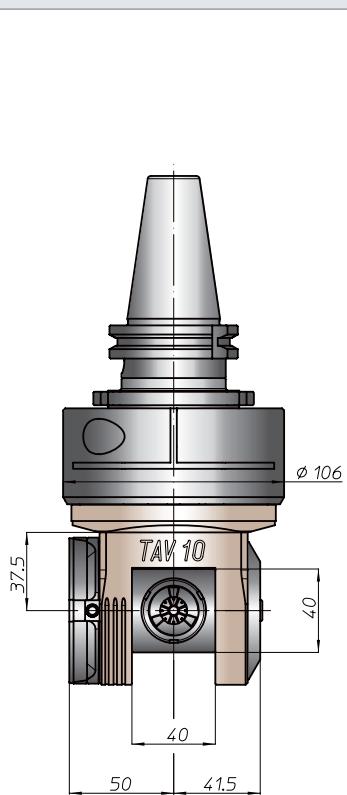


## prestazioni/performances



CONO SHANK	size	A	B	H	
				standard	optional
DIN69871 *	-	140	35	65	-
	40				110
	45				
	50				
ANSIB5.50 *	CAT	148	45	80	110
	40				
	50				
	BT				
DIN6983	40	149	44	65	
	50				110
	63				
	80				
ISO26623	100	144	39	80	110
	C5				
	C6				
	C8				
KM	63	140		65	
	80				110
	100				
	-				
DIN2080	-	113	13	65	-
	40				
	-				
	50				110
ANSIB5.18	40	113	13	65	-
	50	116	16	80	110
NMTB					

★ Option: Dual Contact

FH  
BAH  
TA.CP  
TA  
MOHT  
VH  
TSI/TSX  
T  
MT-Tc-Tc3  
Accessori  
AccessoriesAppendice tecnica  
Technical supplementAppendice tecnica  
Technical supplement



testa ad angolo - angle head



## TAV13.P

## caratteristiche/features



ø 13 M10 630 N



1-1 5500

## peso/weight



40

7,8 kg



50

10,5 kg

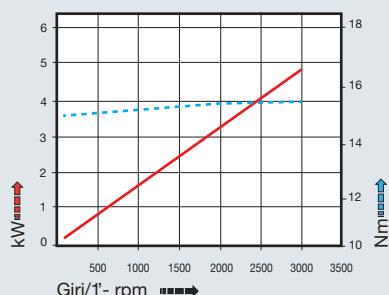
## rotazione/rotation



input

output

## prestazioni/performances



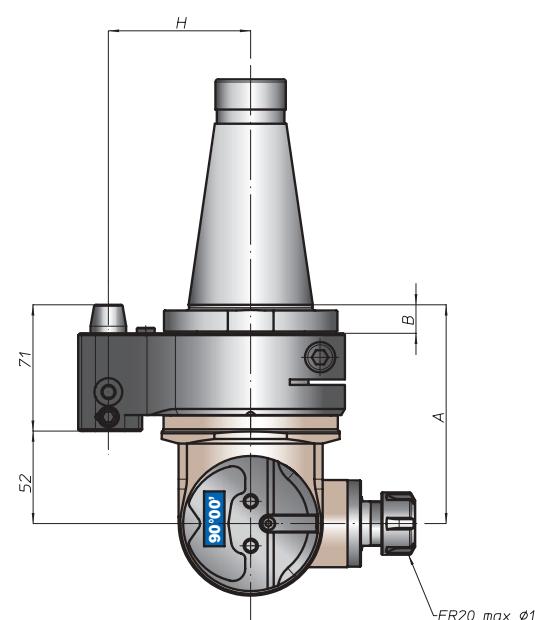
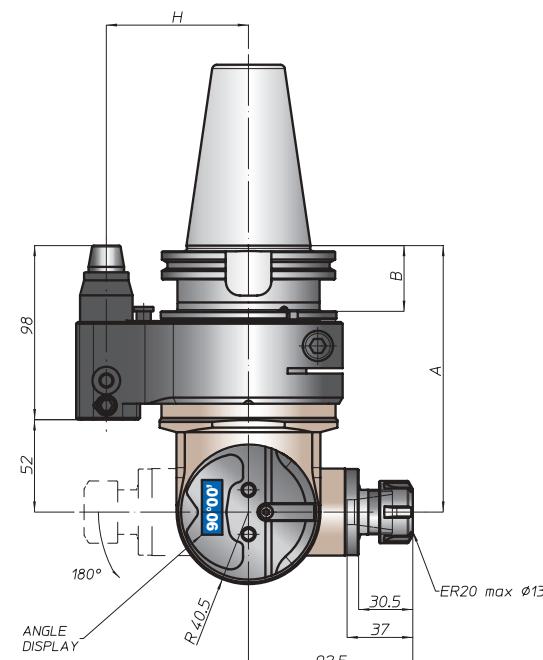
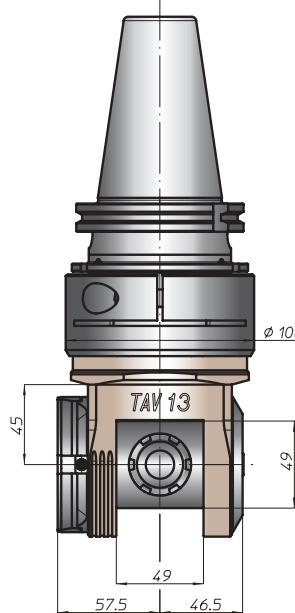
## tipi mandrino disponibili / available spindle types

1 DIN6388-ER

3 Weldon Whistle-Notch

ER25

Ø16



CONO SHANK	size	A	B	H	Standard	Optional
DIN9871 *	-			65	-	
	40			80	110	
	45			65	-	
	50	150	35	80	110	
ANSIB6.50 *	40			65	-	
	50			80	110	
BT *	40			65		
	50	158	45	80	110	
HSK	63			65		
	80	159		80	110	
	100			46	80	110
DIN69893	C5			65		
	C6	154	39	80	110	
	C8			65		
ISO26623				80	110	
KM	63			65		
	80	150		80	110	
	100			65		
DIN2080	-			120	13	65
	40			123	16	80
	-			123	16	110
	50			120	13	65
ANSIB5.18	40	120	13	65	-	
	50	123	16	80	110	

\* Option: Dual Contact

# TAV20.P



## caratteristiche/features

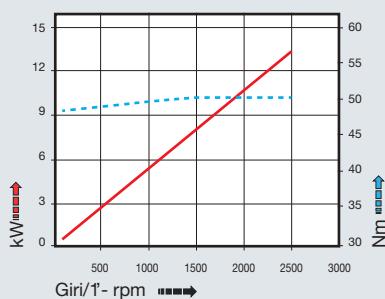


## peso/weight



22 kg

## prestazioni/performances



## rotazione/rotation



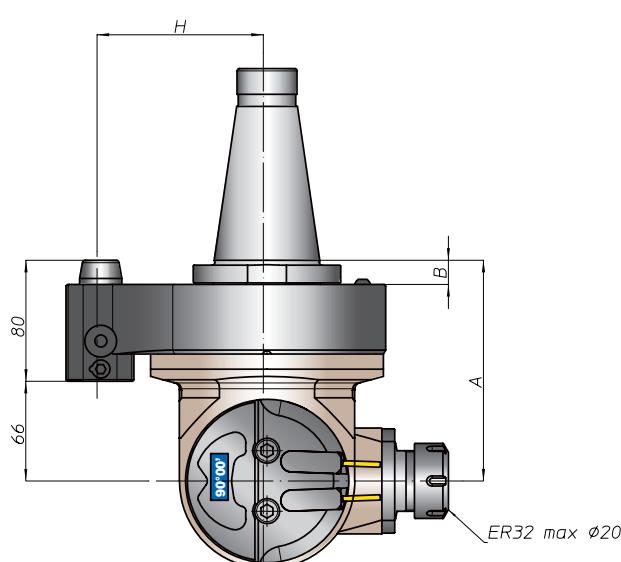
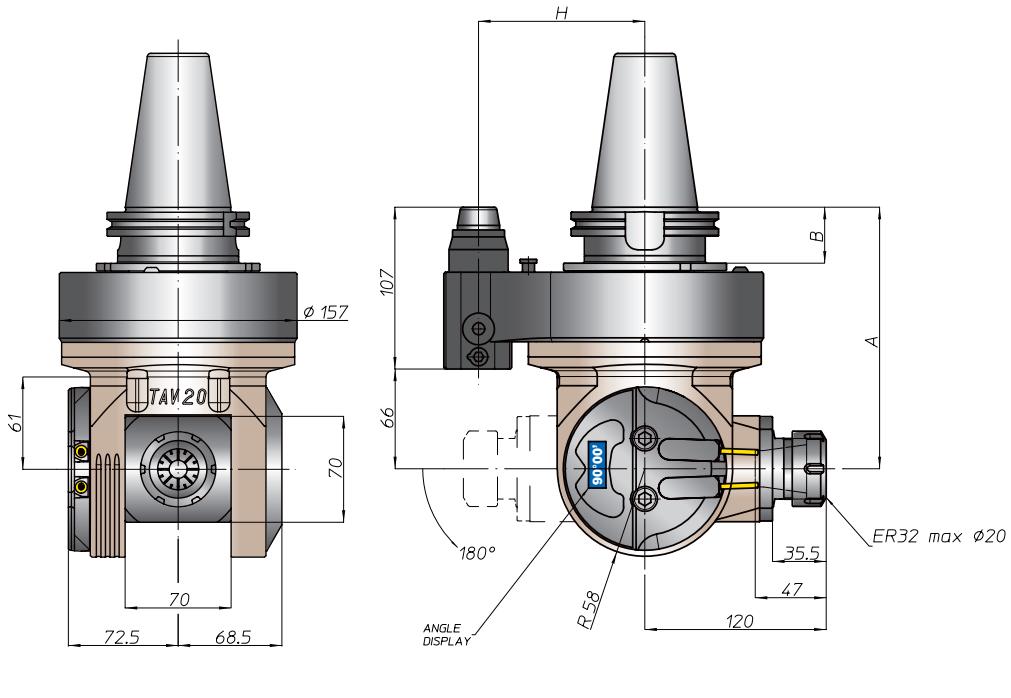
input → output

CONO SHANK	size	A	B	H	standard	optional
				-		
DIN69871	-	173	35	110	-	-
	50					
ANSIB5.50	-	50	110	-	-	-
	CAT					
BT	-	181	45	110	-	-
	50					
DIN69893	-	182	46	110	-	-
	80					
	100					
ISO26623	-	177	-	110	-	-
	C8					
KM	-	173	-	110	-	-
	100					
DIN2080	-	149	16	110	-	-
	-					
	-					
	50					
ANSIB5.18	NMTB	-	-	-	-	-
		50	149	16	110	-

★ Option: Dual Contact

## tipi mandrino disponibili / available spindle types

- |                     |  |                               |                       |                             |
|---------------------|--|-------------------------------|-----------------------|-----------------------------|
| <b>1</b> DIN6388-ER | <b>2</b> Albero portafresa Milling shaft | <b>3</b> Weldon Whistle-Notch | <b>4</b> DIN69893-HSK | <b>6</b> ABS Licenza KOMET® |
| ER40                | Ø32                                      | Ø20-Ø25                       | HSK50                 | ABS50                       |


 FH  
BAH  
TA.CP  
TA  
MO

 HT  
VH  
TSI/TSX  
T

 Accessori  
Accessories  
Appendice tecnica  
Technical supplement



## testa ad angolo - angle head

## TAV10.P

## caratteristiche/features



ø 10 M8 550 N

1-1 8000

## peso/weight



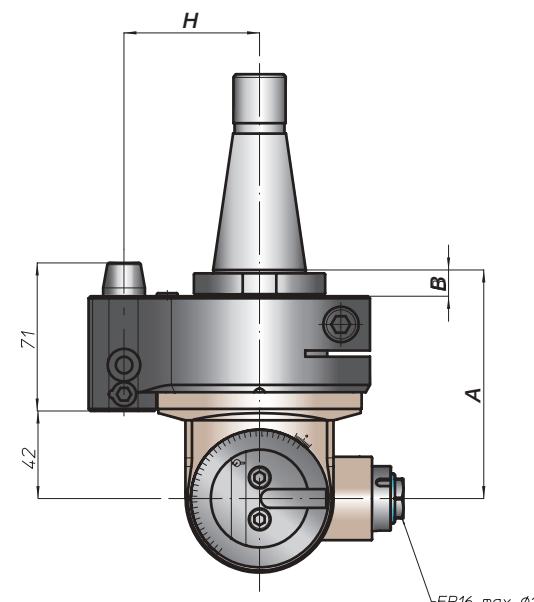
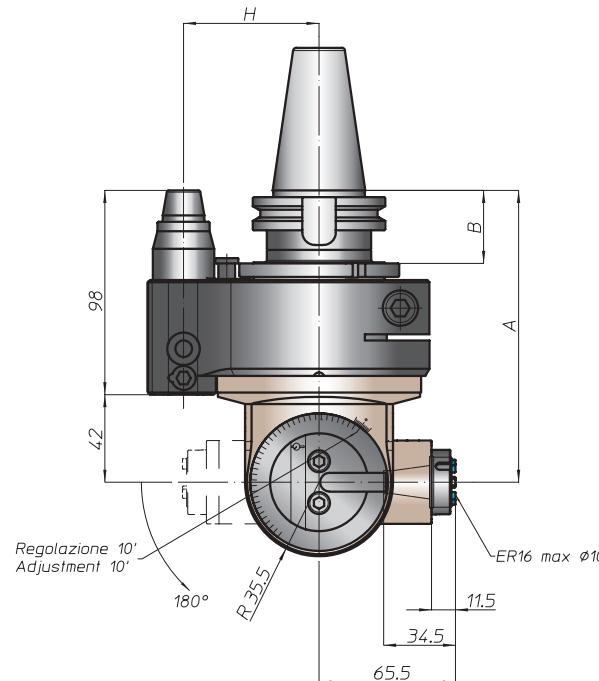
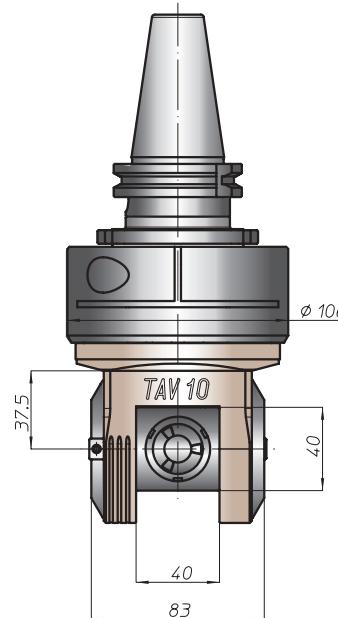
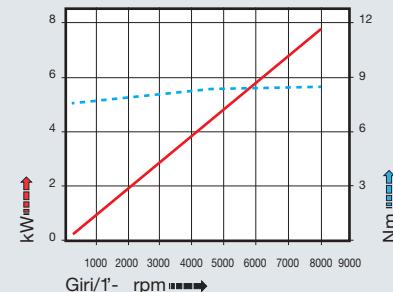
6,4 kg 8,5 kg

## rotazione/rotation



input output

## prestazioni/performances



CONO SHANK	size	A	B	H	standard	optional
DIN69871 *	-			65	-	
	40			80	110	
	45			65	-	
	50	140	35	80	110	
ANSIB5.50 *	40			65	-	
	50			80	110	
BT *	40			65	-	
	50	148	45	80	110	
HSK	63			65	-	
	80	149	46	80	110	
	100					
DIN69893	C5			65	-	
	C6	144	39	80	110	
	C8					
ISO26623						
KM	63			65	-	
	80	140		80	110	
	100					
DIN2080	-			113	13	65
	40			116	16	80
	-			116	16	110
	50					
ANSIB5.18	40	113	13	65	-	
	50	116	16	80	110	

\* Option: Dual Contact

# TAV10.PD



## caratteristiche/features



ø 10 M8 550 N



1-1 7000 70 bar

## peso/weight



6,4 kg

rotazione/rotation



8,5 kg

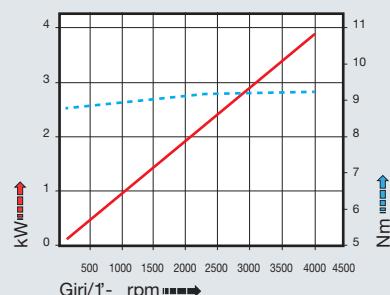


input



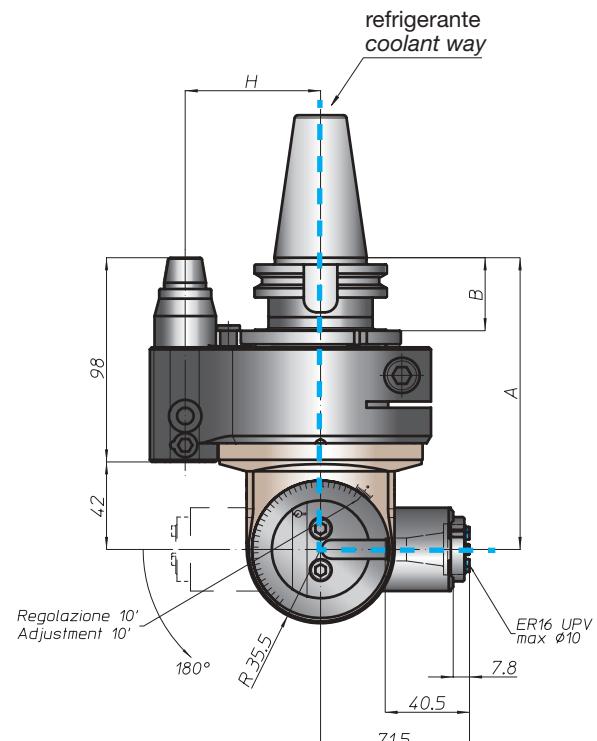
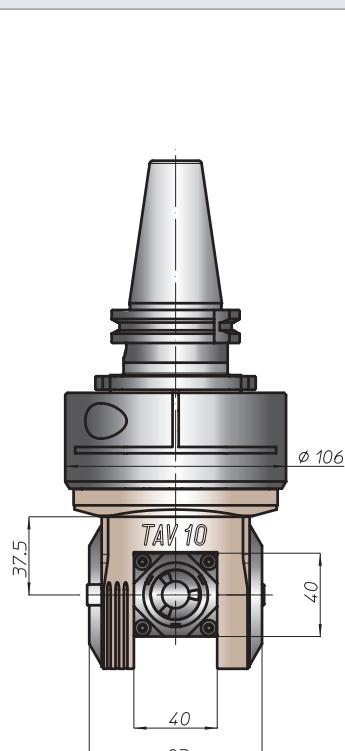
output

## prestazioni/performances



CONO SHANK	size	A	B	H	
				standard	optional
DIN69871 *	-				
	40			65	-
	45				
	50	140	35	80	110
ANSIB6.50 *	CAT				
	40			65	-
	50			80	110
* BT	40			65	
	50	148	45	80	110
DIN6983	HSK	63			
		80	149	44	65
				46	80
		100			110
ISO26623	CAPTO	C5			
		C6	144	39	65
		C8			80
					110
KM	63				
	80	140		65	
	100				80
					110
DIN2080		-			
		-			
		-			
		-			
ANSIB6.18	NMTB	-			
		-			

★ Option: Dual Contact





## testa ad angolo - angle head

## TAV13.P

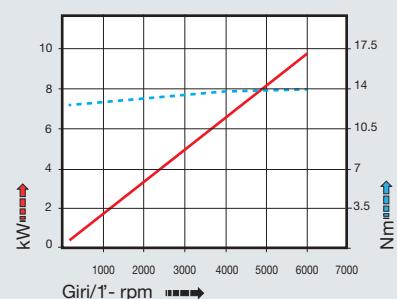
## caratteristiche/features



## peso/weight



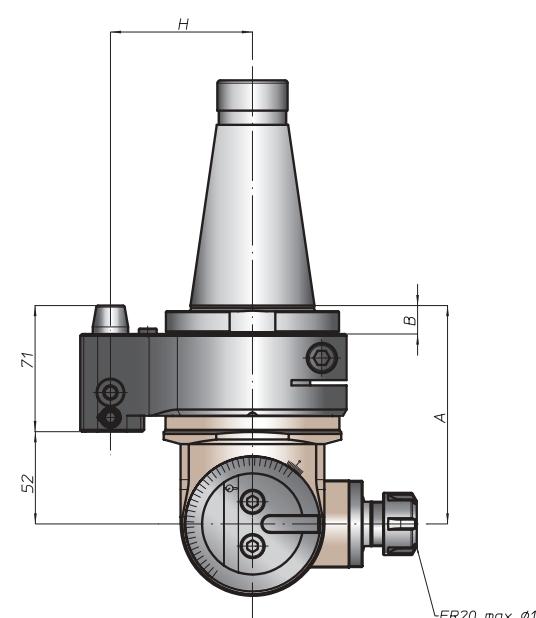
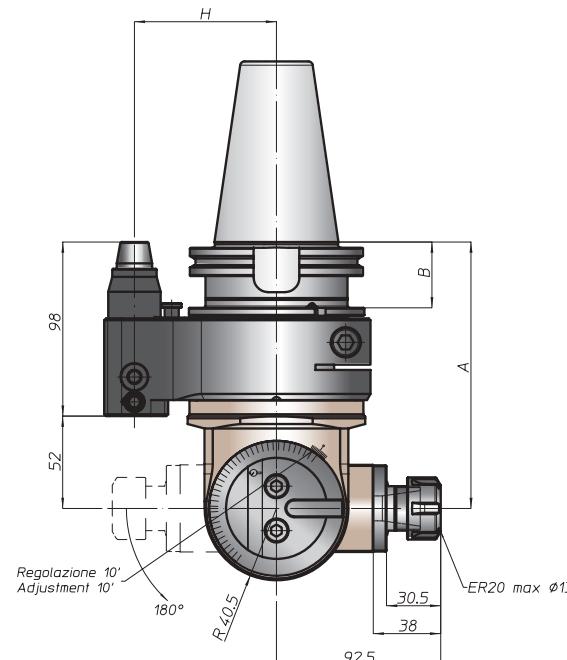
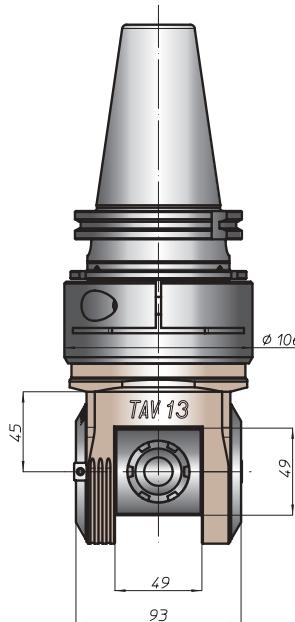
## prestazioni/performances



## tipi mandrino disponibili / available spindle types

- 1 DIN6388-ER    3 Weldon Whistle-Notch

ER25    Ø16



CONO SHANK	size	A	B	H	Standard	Optional
DIN6388-ER *	-			65	-	
	40			80	110	
	45			65	-	
	50	150	35	80	110	
CAT	40			65	-	
	50			80	110	
ANSIB5.50 *	40			65	-	
	50	158	45	80	110	
BT	40			65	-	
	50	158	45	80	110	
HSK	63			65	-	
	80	159	42	80	110	
	100			46	80	110
DIN69939	C5			65	-	
	C6	154	39	80	110	
	C8			65	-	
CAPTO				80	110	
KM	63			65	-	
	80	150		80	110	
	100			65	-	
DIN2080	-			120	13	65
	40			120	13	65
	-			123	16	80
	50			123	16	110
ANSIB5.18	40	120	13	65	-	
	50	123	16	80	110	

\* Option: Dual Contact

# TAV13.PD



**UPDATE**

caratteristiche/features



ø 13 M10 630 N



1-1 5500 70 bar

peso/weight



40

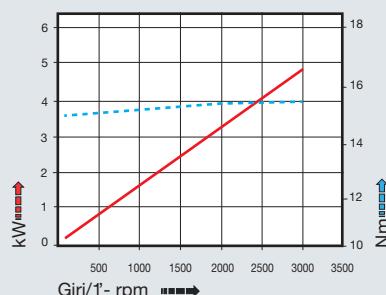
7,8 kg



50

10,5 kg

prestazioni/performances



rotazione/rotation



input



output

CONO SHANK	size	H		standard	optional
		A	B		
DIN69871 *	-			65	-
	40				
	45				
	50	150	35	80	110
	40			65	-
	50			80	110
ANSIB5.50 *	40				
	50				
	40			65	
	50	158	45	80	110
* BT	40				
	50				
	40			65	
	50	158	45	80	110
DIN69893	63				
	80				
	100	159	42	65	
ISO26623	C5				
	C6				
	C8	154	39	65	
KM	63				
	80				
	100	150		65	
DIN2080	-				
	40	120	13	65	-
	-				
	-				
ANSIB5.18	NMTB	-	-	-	-
	-	-	-	-	-

\* Option: Dual Contact

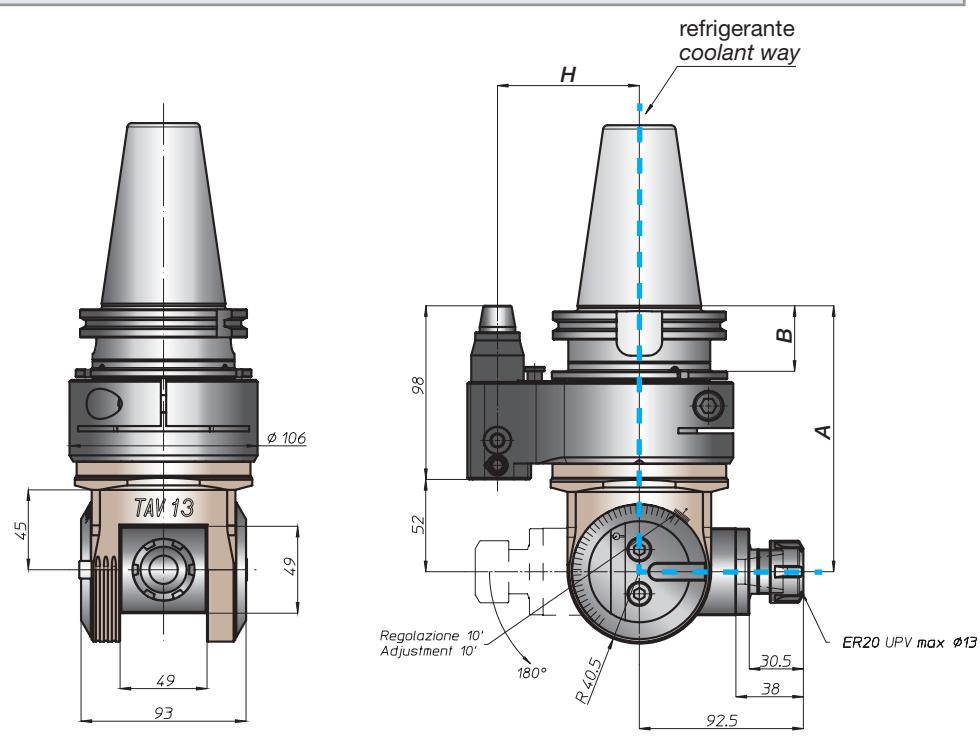
tipi mandrino disponibili / available spindle types

1 DIN6388-ER

3 Weldon Whistle-Notch

ER25

Ø16



FH  
BAH  
TA.CP  
TA  
MO  
HT  
TSI/TSX  
VH  
T  
MT-Tc-Tc3  
Accessori  
Accessories  
Appendice tecnica  
Technical supplement

TD  
Technical Data

UPDATE

testa ad angolo - angle head

# TAV20.P



## caratteristiche/features



ø 20 M16 1740 N



1-1 4000

## peso/weight



50

22 kg

## rotazione/rotation



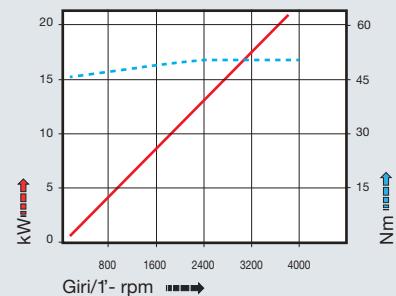
IN



OUT

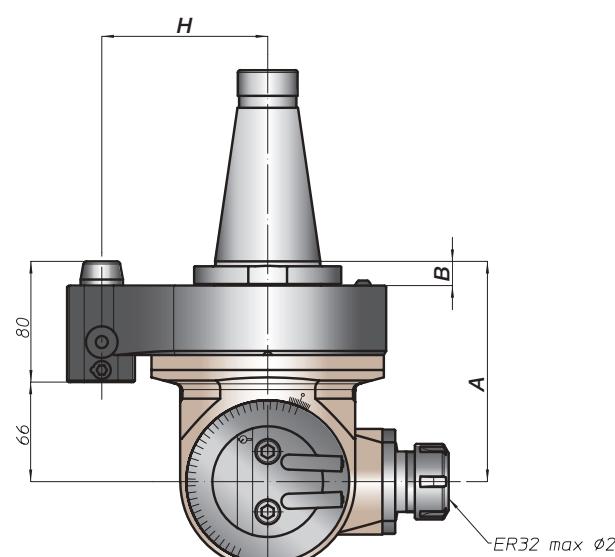
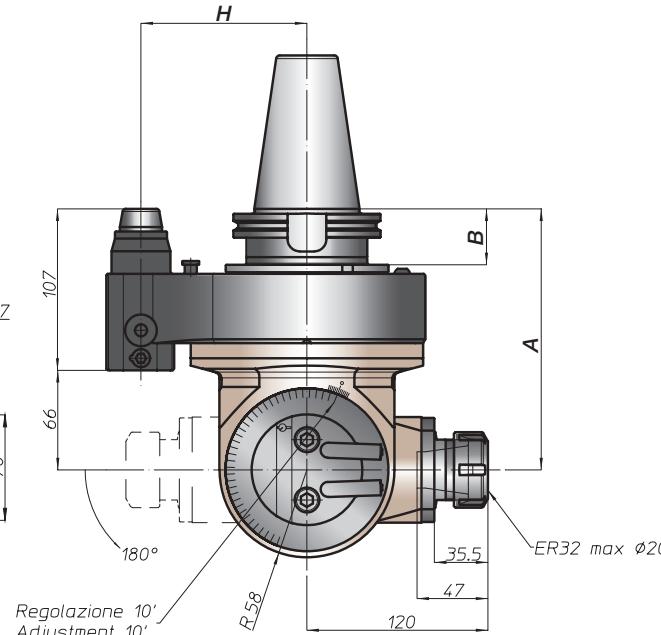
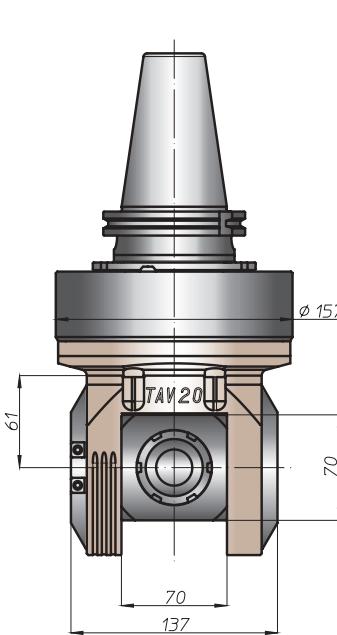
## input output

## prestazioni/performances



## tipi mandrino disponibili / available spindle types

- |              |                                      |                           |                |                          |
|--------------|--------------------------------------|---------------------------|----------------|--------------------------|
| 1 DIN6388-ER | 2 Albero portafresa<br>Milling shaft | 3 Weldon<br>Whistle-Notch | 4 DIN69893-HSK | 6 ABS<br>Llicenza KOMET® |
| ER40         | Ø32                                  | Ø20-Ø25                   | HSK50          | ABS50                    |



CONO SHANK	size	A	B	H	Standard	Optional
DIN9871 *	-	-	-	-	-	-
ANSI5.50 *	50	173	35	110	-	-
BT *	50	181	45	110	-	-
HSK	-	-	-	-	-	-
DIN69893	80	182	46	110	-	-
	100					
CAPTO	-	177	-	-	-	-
ISO26623	C8			110	-	-
KM	-	173	-	-	-	-
	100			110	-	-
DIN2080	-	-	-	-	-	-
	50	149	16	110	-	-
ANSI5.18	50	149	16	110	-	-
NMTB						

\* Option: Dual Contact

# TAV20.PD



## caratteristiche/features



ø 20 M16 1740 N



1-1 4000 70 bar

## peso/weight



22 kg

## rotazione/rotation

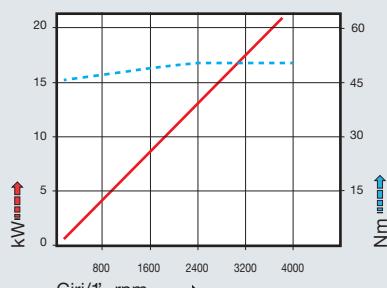


input



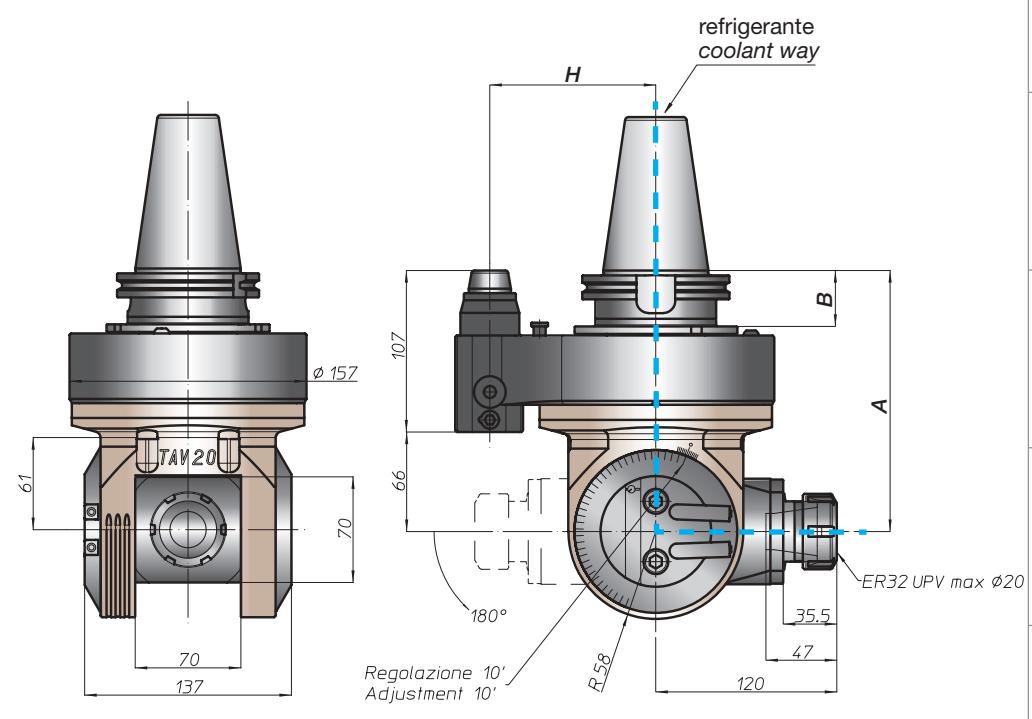
output

## prestazioni/performances



CONO SHANK	size	A	B	H	standard	optional
DIN69871 *	-	173	35	110	-	-
	50					
ANSIB5.50 *	CAT	50	110	-	-	-
	BT					
DIN69893	ER40	50	181	45	110	-
	Ø20-Ø25	80	182	46	110	-
ISO26623	HSK	100	177	-	-	-
	CAPTO	C8	-	110	-	-
KM	-	173	-	110	-	-
	100					
DIN2080	-	-	-	-	-	-
NMTB	-	-	-	-	-	-
ANSIS5.18	NMTB	-	-	-	-	-

tipi mandrino disponibili / available spindle types					
1 DIN6388-ER	3 Weldon Whistle-Notch	4 DIN69893-HSK	6 ABS Licenza KOMET®		
ER40	Ø20-Ø25	HSK50	ABS50		



★ Option: Dual Contact

# TAV30.P



## caratteristiche/features



Ø 30 M24 2740 N



1-1 2500

## peso/weight



50 kg

## rotazione/rotation

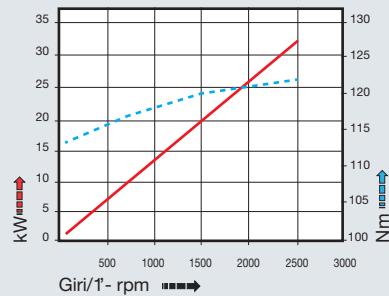


input



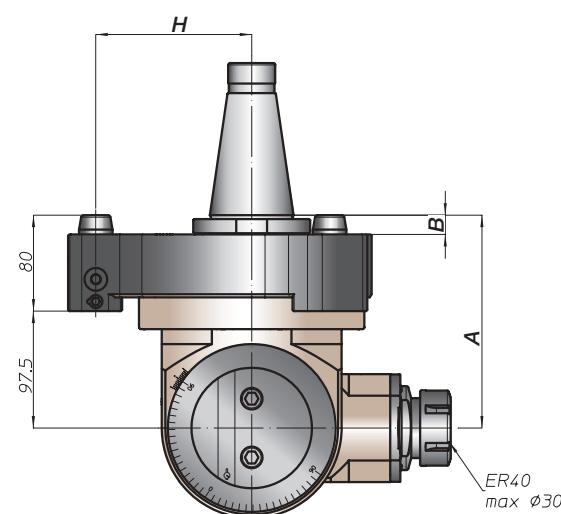
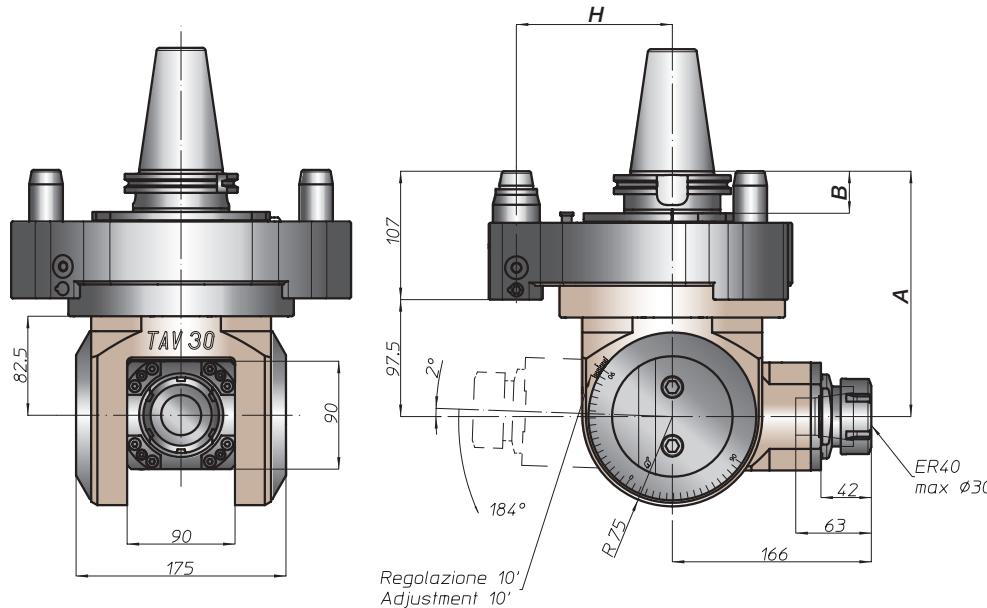
output

## prestazioni/performances



## tipi mandrino disponibili / available spindle types

- 1 DIN6388-ER    2 Albero portafresa Milling shaft    4 DIN69893-HSK    6 ABS Licenza KOMET®
- ER50    Ø32-Ø40    HSK63    ABS63



CONO SHANK	size	A	B	H	Standard	Optional
DIN69871 *	-	-	-	130	-	-
ANSIB5.50 *	50	204,5	35	130	-	-
* BT	50	212,5	45	130	-	-
HSK	-	42	-	130	-	-
DIN69893	-	213,5	46	130	-	-
ISO26623	100	-	-	130	-	-
CAPTO	-	208,5	-	130	-	-
KM	-	204,5	-	130	-	-
DIN2080	100	-	-	130	-	-
ANSIB5.18	-	-	-	-	-	-
NMTB	50	177,5	16	130	-	-

★ Option: Dual Contact

# TAV40.T

## caratteristiche/features



Ø 32 M26 2610 N



1-2 5000 OUTPUT

## peso/weight



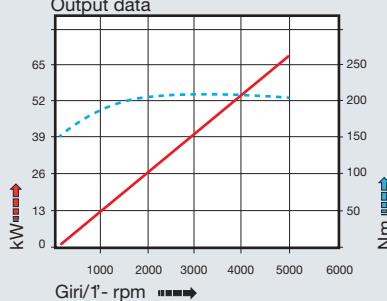
70 kg

## rotazione/rotation



## prestazioni/performances

## Output data



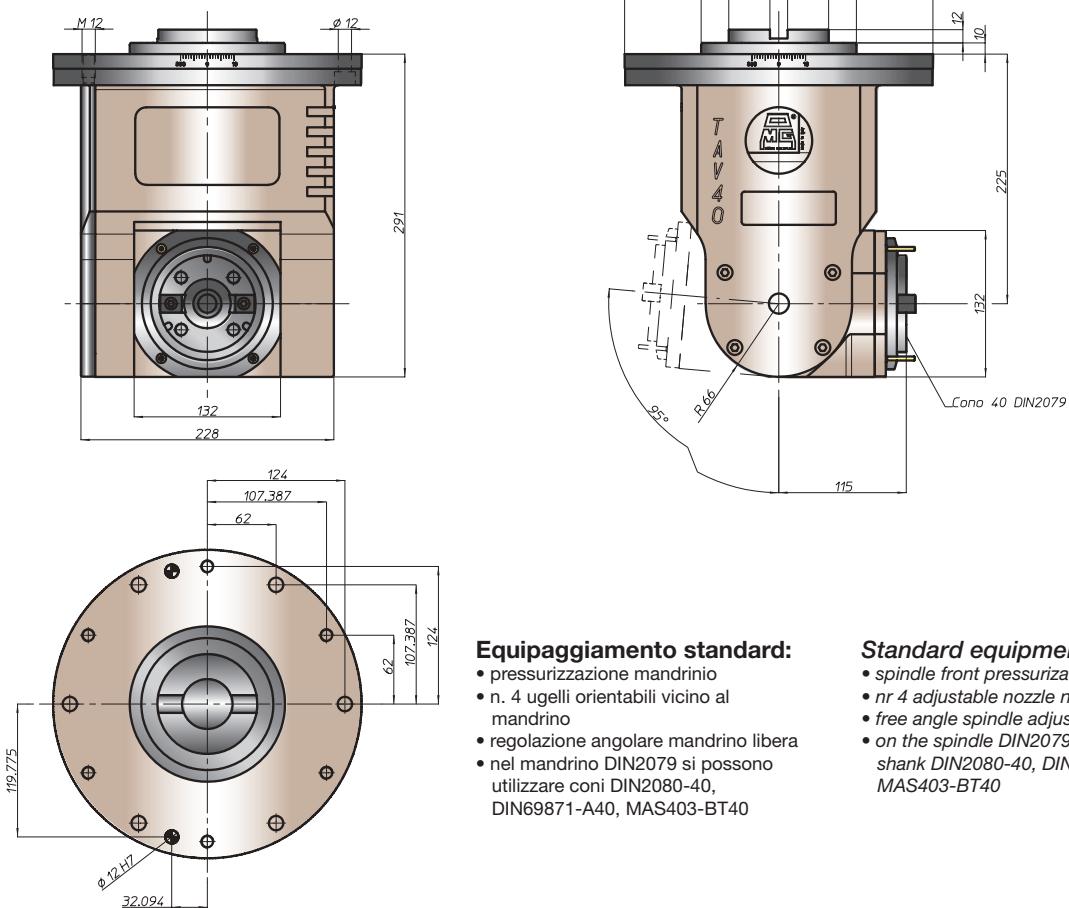
## tipi mandrino disponibili / available spindle types

4 DIN69893-HSK

5 COROMANT CAPTO®

HSK63

C5



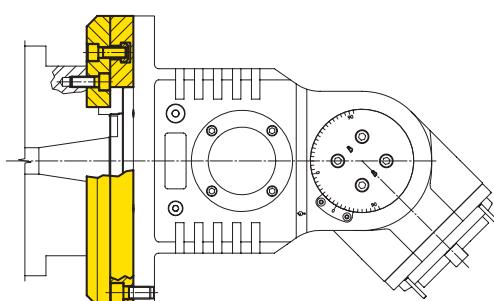
## Equipaggiamento standard:

- pressurizzazione mandrino
- n. 4 ugelli orientabili vicino al mandrino
- regolazione angolare mandrino libero
- nel mandrino DIN2079 si possono utilizzare coni DIN2080-40, DIN69871-A40, MAS403-BT40

## Standard equipment:

- spindle front pressurization
- nr 4 adjustable nozzle near the spindle
- free angle spindle adjustment
- on the spindle DIN2079 you can use shank DIN2080-40, DIN69871-A40, MAS403-BT40

## esempio di collegamento - connection example





# TAV50.T

## caratteristiche/features



ø 45 M36 6180 N



1-2 4000 OUTPUT

## peso/weight



145 kg

## rotazione/rotation

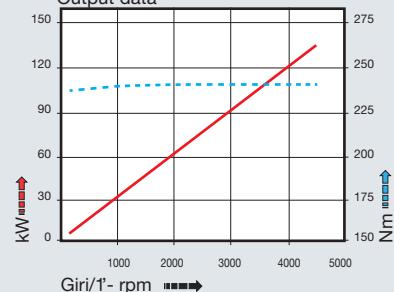


input

output

## prestazioni/performances

## Output data



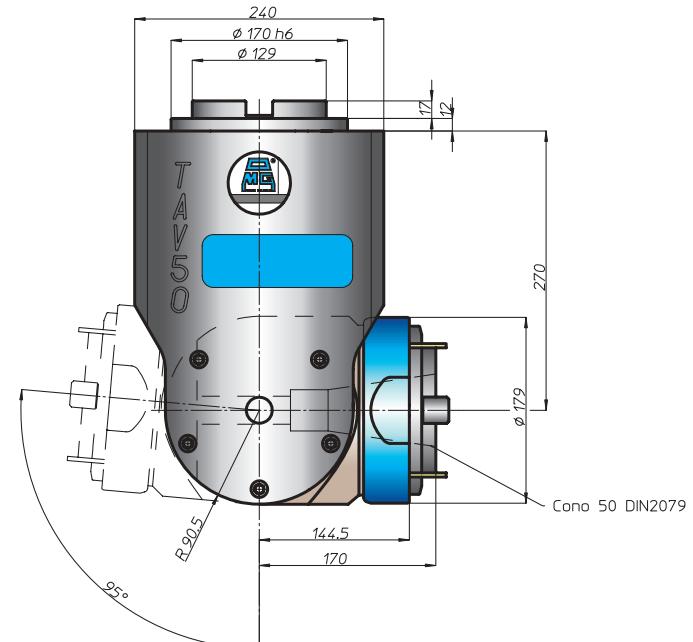
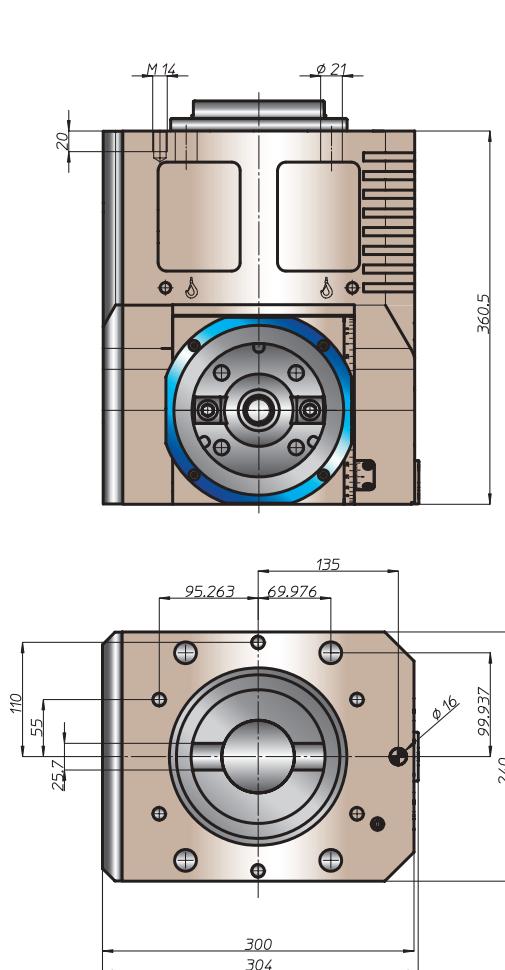
## tipi mandrino disponibili / available spindle types

4 DIN69893-HSK

5 COROMANT CAPTO®

A100

C8



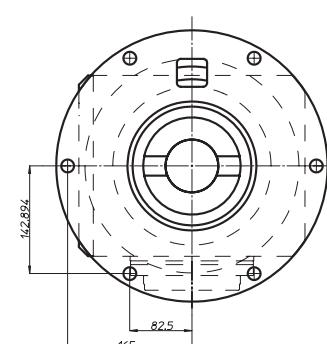
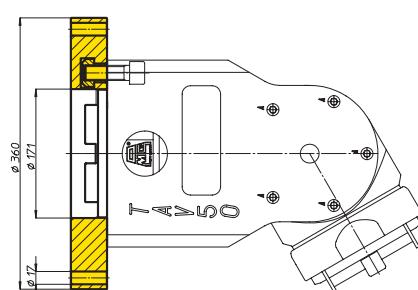
## Equipaggiamento standard:

- pressurizzazione mandrino
- n. 4 ugelli orientabili vicino al mandrino
- regolazione angolare mandrino libera o posizionabile ogni 15°
- nel mandrino DIN2079 si possono utilizzare coni DIN69871-A50, MAS403-BT50

## Standard equipment:

- spindle front pressurization
- nr 4 adjustable nozzle near the spindle
- free angle spindle adjustment or by pin each 15°
- on the spindle DIN2079 you can use shank DIN69871-A50, MAS403-BT50

## esempio di collegamento - connection example



# TAV Gallery



FH

BAH

TA.CP

TA

MO

HT

VH

TSI/TSX

T

MT-Tc-TC3

Accessori  
AccessoriesAppendice tecnica  
Technical supplement

# TAF Gallery



# TAF10.P

## caratteristiche/features



ø 10 M8 510 N



1-1 5000

## peso/weight



40

50

kg

kg

5,5 kg

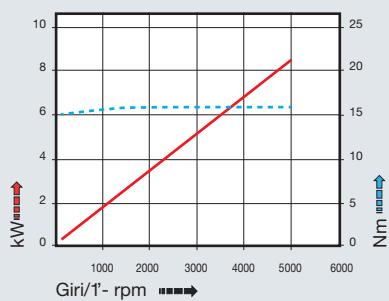
7 kg

## rotazione/rotation



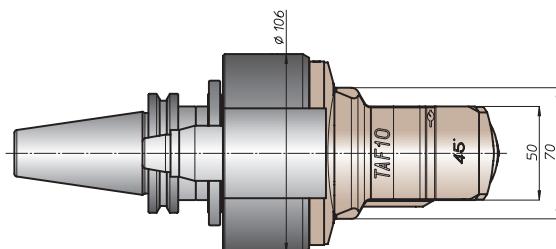
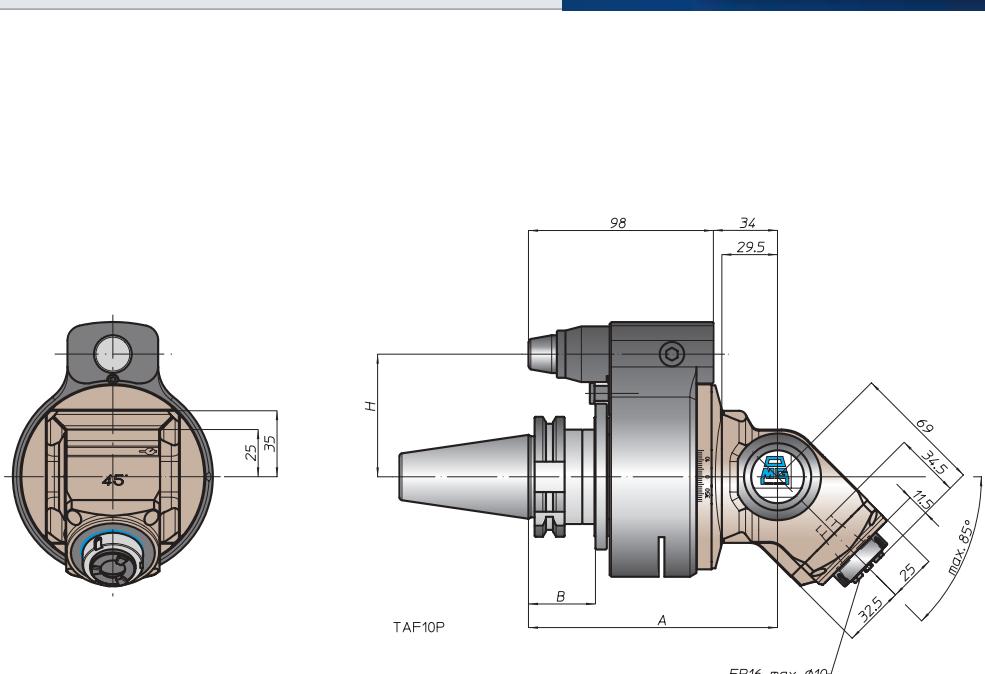
input output

## prestazioni/performances



CONO SHANK	size	A	B	H	
				standard	optional
DIN69871 *	30	132	35	65	-
	40				
	45			80	110
	50				
	50			65	-
ANSIB5.50 *	40				
	50			80	110
	50				
	50		45	80	110
	50				
BT *	40	140	45	65	-
	50				
	50			80	110
	50				
	50			65	-
DIN69893 HSK	63	141	42	65	-
	80				
	80			80	110
	100				
	100			65	-
ISO26623 CAPTO	C5	136	39	65	-
	C6				
	C6			80	110
	C8				
	C8			65	-
KM	63	132	80	65	-
	80				
	80			80	110
	100				
	100			65	-
DIN2080	-	-	-	-	-
	-				
	-			-	-
	-				
ANSIB5.18 NMTB	-	-	-	-	-
	-				

★ Option: Dual Contact

FH  
BAH  
TA.CP  
TA  
MO  
HT  
VH  
TSI/TSX  
T  
MT-Tc-Tc3  
Accessori  
Accessories  
Appendice tecnica  
Technical supplement

4-71

## TAF13.P



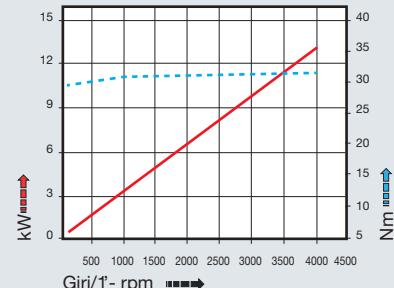
## caratteristiche/features



## peso/weight



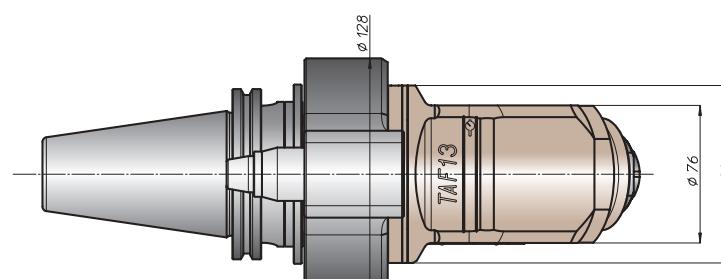
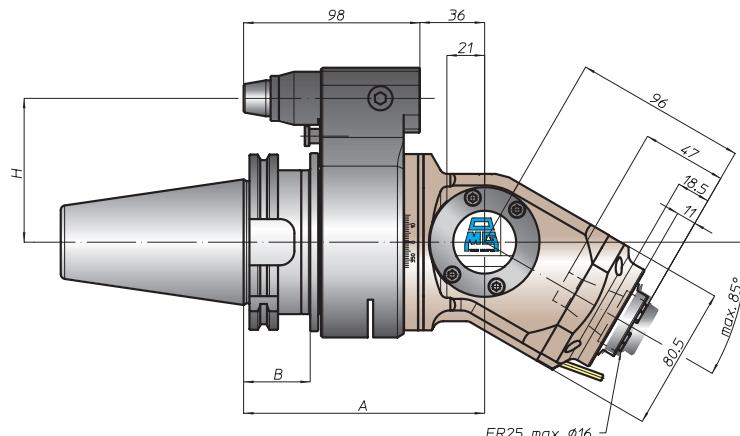
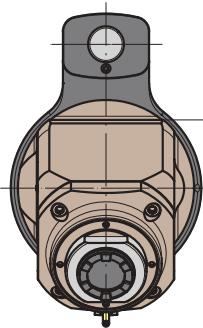
## prestazioni/performances



## tipi mandrino disponibili / available spindle types

4 DIN69893-HSK

HSK32



CONO SHANK	size	A	B	H
				standard
				optional
DIN69871 *	-			65
	40			
	45			
	50	134	35	80 110
ANSIB5.50 *	40			65
	50			
BT *	40			65
	50	142	45	80 110
DIN69893	HSK	63		42 65
		80	143	
		100	46	80 110
ISO26623	CAPTO	C5		65
		C6	138	
		C8	39	
KM	63			65
		80	134	
		100		80 110
DIN2080		-		
		-		
		-		
ANSIB5.18	NMTB	-		
		-		
		-		

★ Option: Dual Contact

# TAF13.PD



## caratteristiche/features



## peso/weight

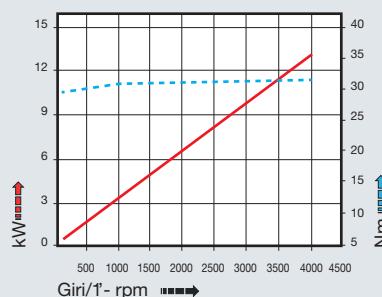


6,5 kg



8,5 kg

## prestazioni/performances



ø 13	M10	900 N
1-1	4000	70 bar

## rotazione/rotation



input



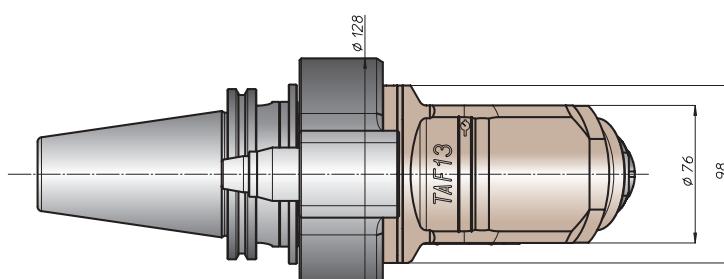
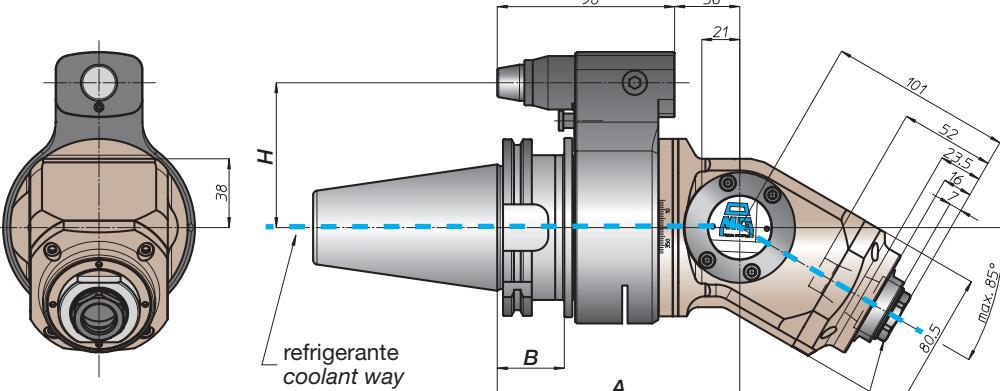
output

CONO SHANK	size	A	B	H	
				standard	optional
DIN9871 *	-	134	35	65	-
	40				
	45				
	50				
ANSIB5.50 *	CAT	40	35	65	-
	45	50		80	110
	50	50		80	110
	BT	40		65	
HSK	40	142	45	80	110
	50				
	63				
	80				
ISO26623	63	143	42	65	
	80				
	100				
	C5				
CAPTO	C6	138	39	65	
	C8				
KM	63	134	80	110	
	80				
	100				
	-				
DIN2080	-	-	-	-	-
	-				
	-				
	-				
NMTB18	-	-	-	-	-
	ANSIB5.18				

## tipi mandrino disponibili / available spindle types

4 DIN69893-HSK

HSK32



★ Option: Dual Contact

FH

BAH

TA.CP

MO

HT

VH

TSI/TSX

T

Accessori  
Accessories

4-73



# TAF20.P



## caratteristiche/features



## peso/weight



13,5 kg

## rotazione/rotation

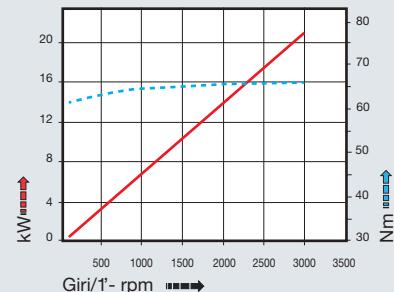


input



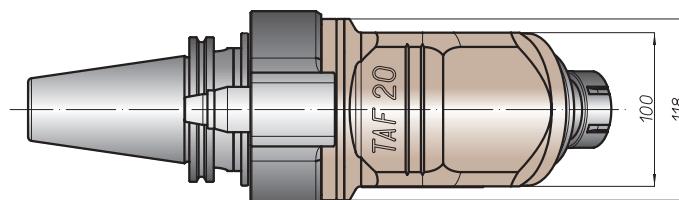
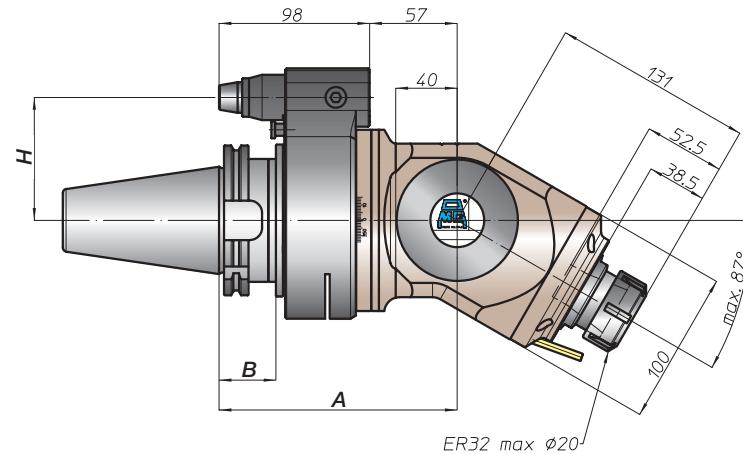
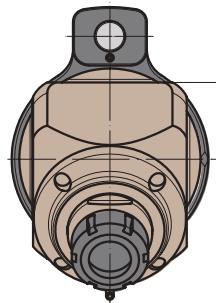
output

## prestazioni/performances



## tipi mandrino disponibili / available spindle types

- 1 DIN6388-ER    2 Albero portafresa Milling shaft    3 Weldon Whistle-Notch    4 DIN69893-HSK    6 ABS Licenza KOMET®
- ER40               Ø32               Ø20               HSK50               ABS50



CONO SHANK	size	A	B	H	Standard	Optional
DIN69871 *	-	-	-	-	-	-
	45	-	-	-	80	110
	50	155	-	35	-	-
ANSIB5.50 *	CAT	-	-	-	-	-
	50	-	-	-	80	110
BT *	50	163	45	80	110	-
HSK	-	-	42	-	-	-
DIN69893	80	164	-	46	80	110
	100	-	-	-	-	-
CAPTO	-	-	-	-	-	-
ISO26623	C6	159	-	-	80	110
	C8	-	-	-	-	-
KM	-	-	-	-	-	-
	80	155	-	-	80	110
	100	-	-	-	-	-
DIN2080	-	-	-	-	-	-
ANSIB5.18	NMTB	-	-	-	-	-
		-	-	-	-	-

\* Option: Dual Contact

# TAF20.PD



## caratteristiche/features



## peso/weight

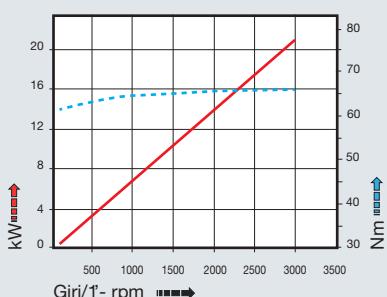


13,5 kg

## rotazione/rotation



## prestazioni/performances



CONO SHANK	size	A	B	H	standard	optional
				-		
DIN69871 *	-	155	35	80	110	-
	-					-
	45					-
ANSI5.50 *	-	164	46	80	110	-
	CAT					-
* BT	-	163	45	80	110	-
	50					-
DIN69893	-	164	42	80	110	-
	80					-
	100					-
ISO26623	-	159	80	110	-	-
	C6					-
	C8					-
KM	-	155	80	110	-	-
	80					-
	100					-
DIN2080	-	-	-	-	-	-
	-					-
	-					-
	-					-
ANSIB5.18	NMTB	-	-	-	-	-
	ANSIB5.18					-

★ Option: Dual Contact

## tipi mandrino disponibili / available spindle types

1 DIN6388-ER

3 Weldon Whistle-Notch

4 DIN69893-HSK

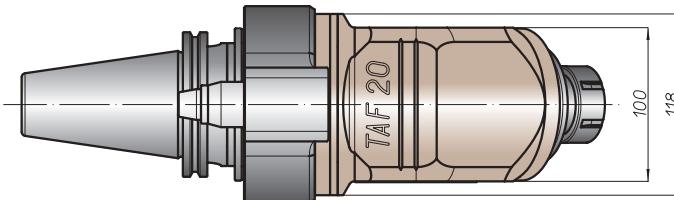
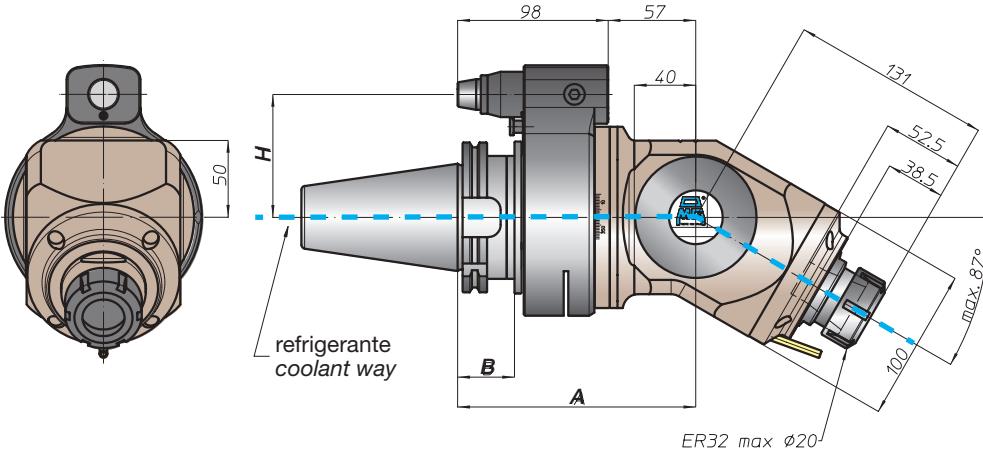
6 ABS Licenza KOMET®

ER40

Ø20

HSK50

ABS50



## TA07P.T



## caratteristiche/features

ø 7	M6	180 N
1-1	10000	

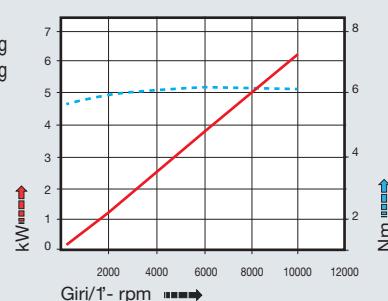
## peso/weight

head		L 100=2,2 kg
extension		L 200=3,6 kg

## rotazione/rotation



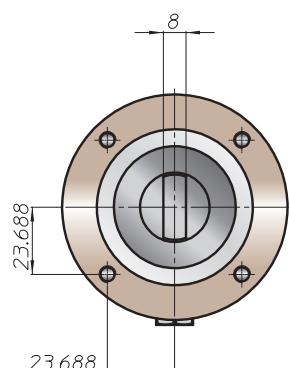
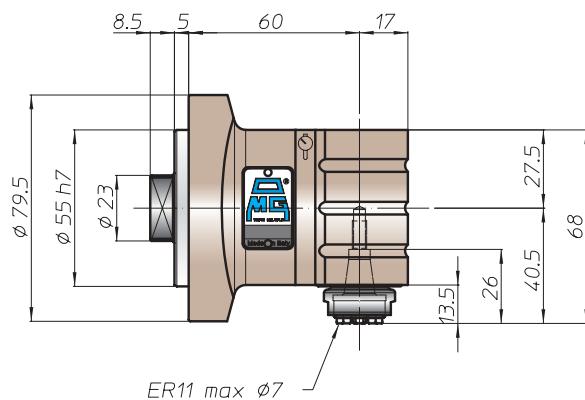
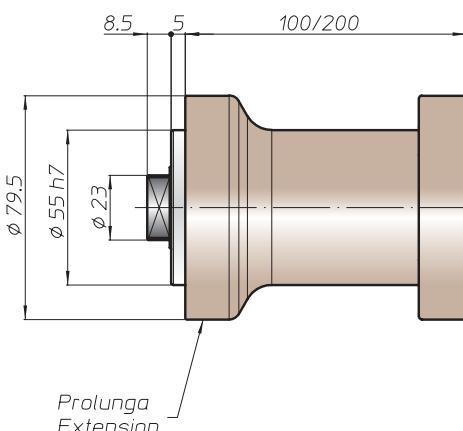
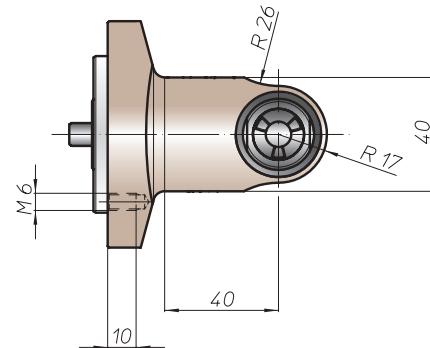
## prestazioni/performances



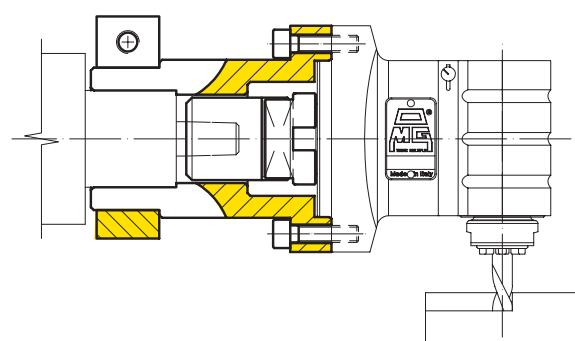
## tipi mandrino disponibili / available spindle types

3 Weldon Whistle-Notch

Ø8-Ø10



## esempio di collegamento - connection example



# TA10P.T

## caratteristiche/features



Ø 10 M8 400 N



1-1 10000 rpm

## peso/weight

head  
2,7 kgextension  
L 100=2,2 kg  
L 200=3,6 kg

## rotazione/rotation

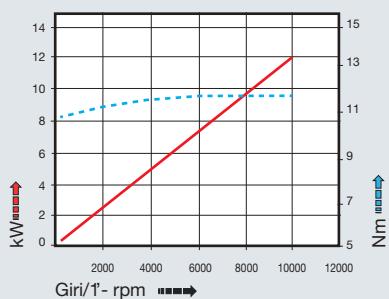


input

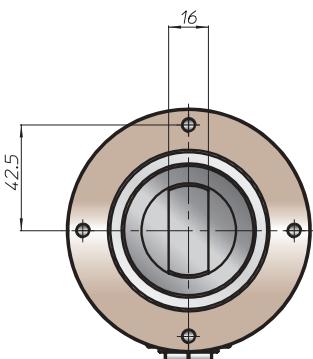
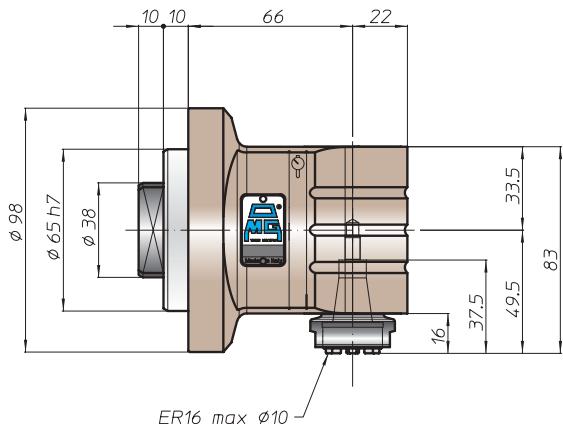
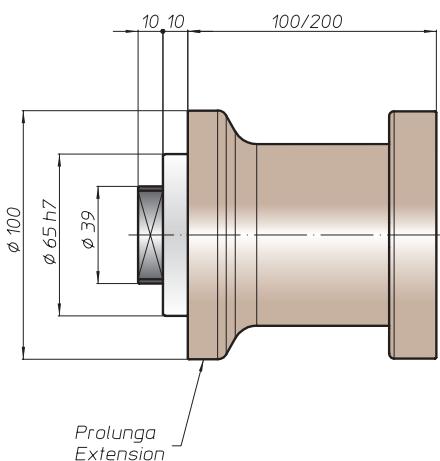
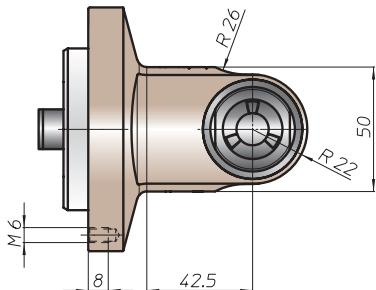


output

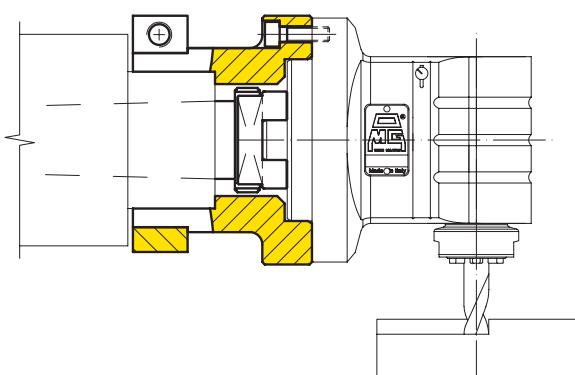
## prestazioni/performances



## tipi mandrino disponibili / available spindle types

**1** DIN6388-ER**2** Albero portafresa  
Milling shaft**3** Weldon  
Whistle-Notch**ER20****Ø16****Ø10**

## esempio di collegamento - connection example



# TA13P.T



## caratteristiche/features



$\varnothing 13$  M10 810 N



1-1 8000

## peso/weight



3,5 kg

## rotazione/rotation

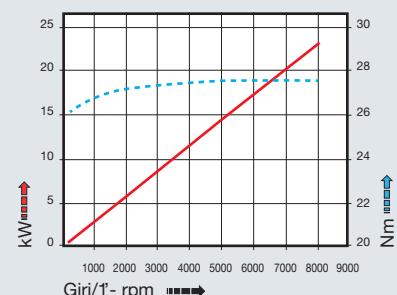


input



output

## prestazioni/performances



## tipi mandrino disponibili / available spindle types

1 DIN6388-ER

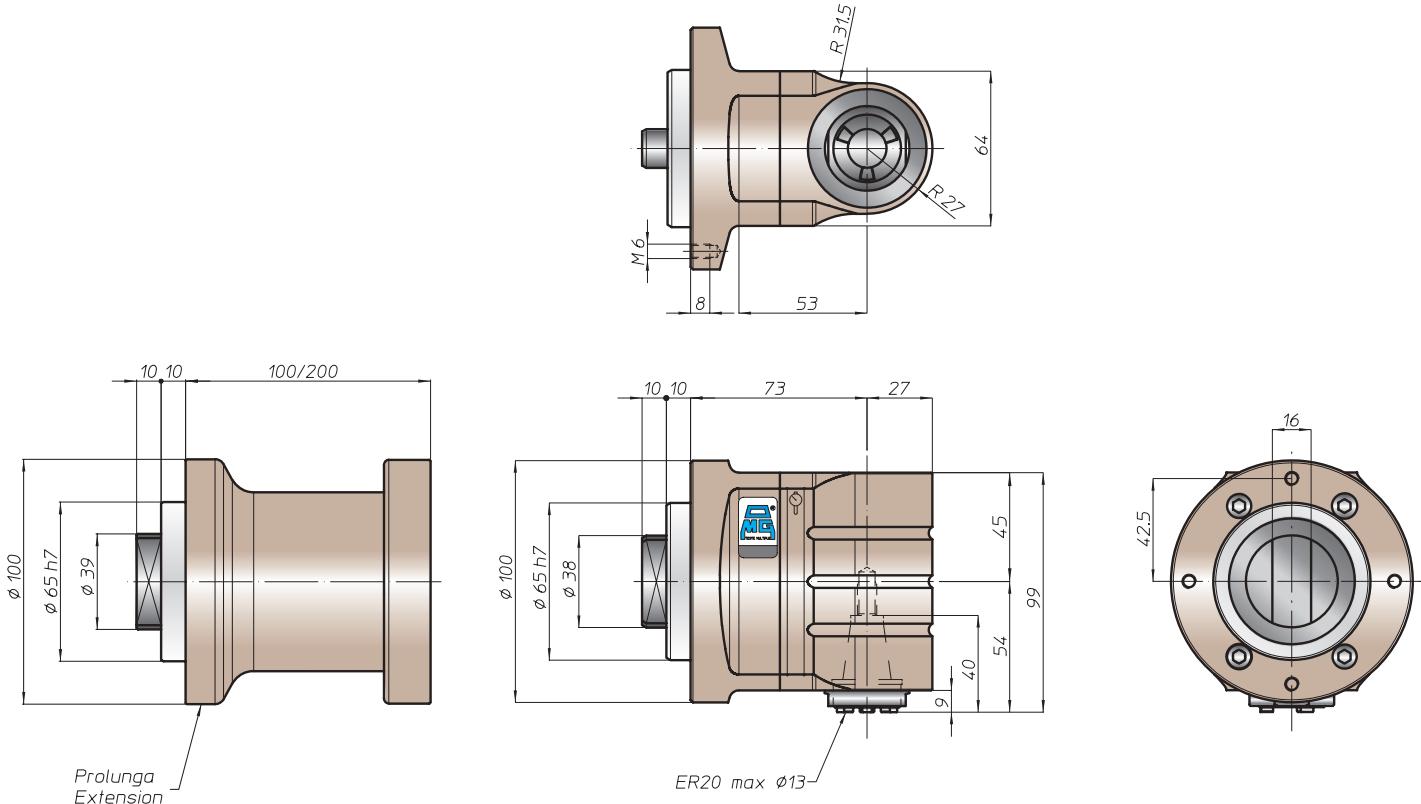
2 Albero portafrese  
Milling shaft

3 Weldon  
Whistle-Notch

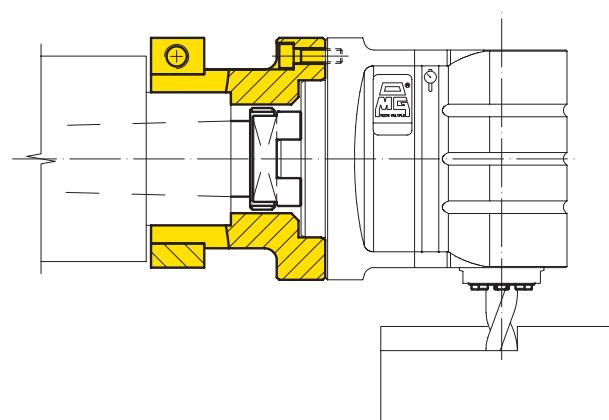
ER25

$\varnothing 16\text{-}\varnothing 22$

$\varnothing 16$



## esempio di collegamento - connection example



# TA16P.T

## caratteristiche/features



ø 16 M12 1040 N



1-1 5000

## peso/weight

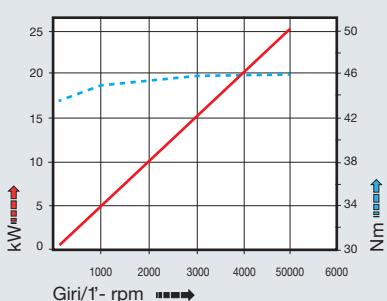
head	kg	L 100=5 kg
extension	kg	L 200=8,5 kg

5 kg

## rotazione/rotation

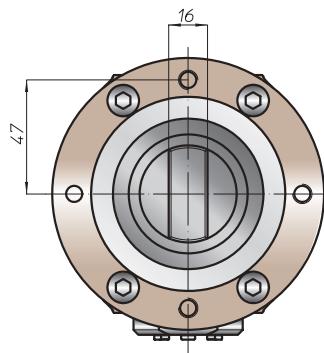
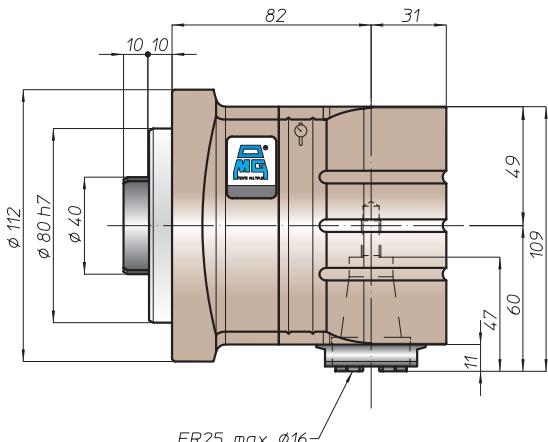
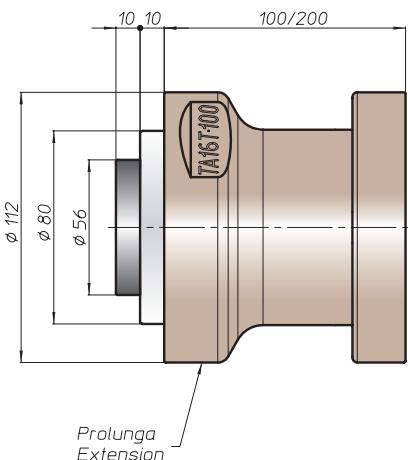
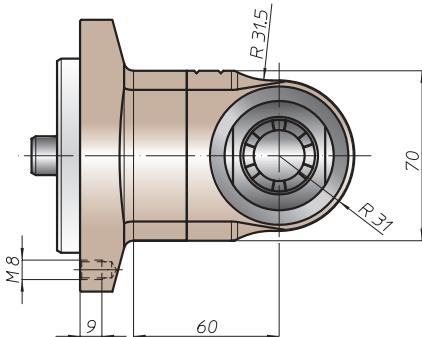


## prestazioni/performances

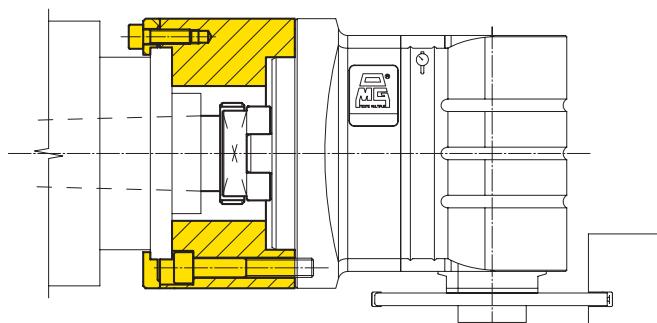


## tipi mandrino disponibili / available spindle types

- |              |                                   |                        |                |                   |                      |
|--------------|-----------------------------------|------------------------|----------------|-------------------|----------------------|
| 1 DIN6388-ER | 2 Albero portafrese Milling shaft | 3 Weldon Whistle-Notch | 4 DIN69893-HSK | 5 COROMANT CAPTO® | 6 ABS Licenza KOMET® |
|--------------|-----------------------------------|------------------------|----------------|-------------------|----------------------|
- ER32 Ø16-Ø22-Ø27-Ø32 Ø20 HSK32 C3 ABS32



## esempio di collegamento - connection example



# TA20.PT



## caratteristiche/features



ø 20 M14 1460 N



1-1 3500

## peso/weight

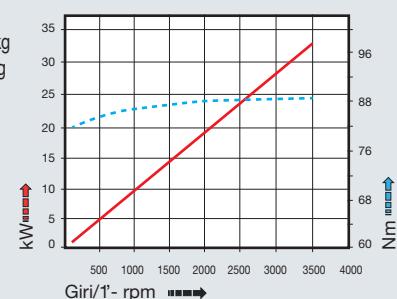
head	kg	L 100=7,5 kg
extension	kg	L 200=15 kg

## rotazione/rotation



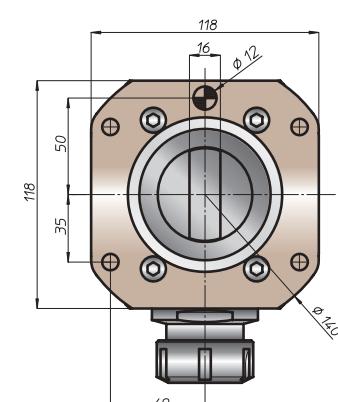
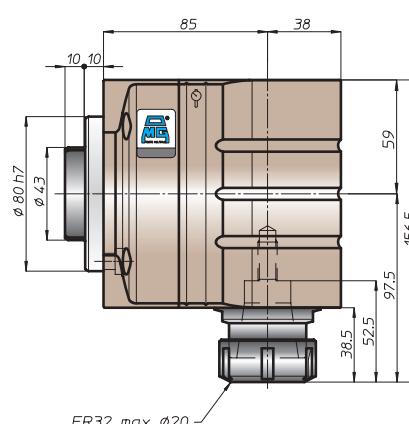
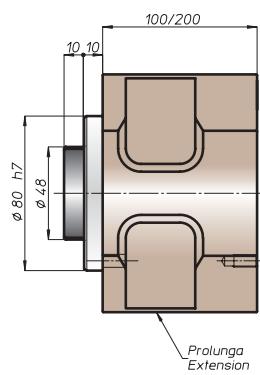
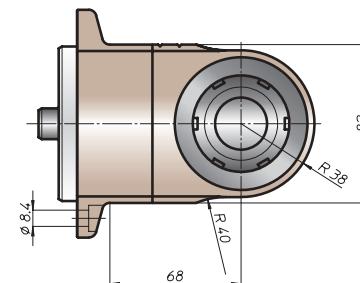
input output

## prestazioni/performances

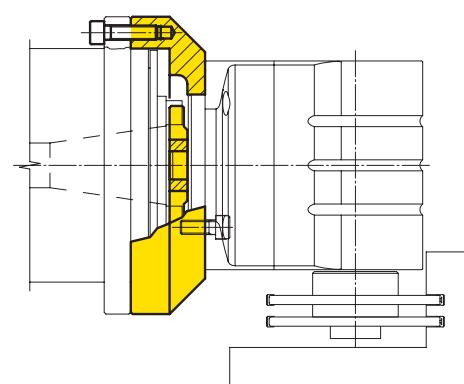


## tipi mandrino disponibili / available spindle types

- |              |                                   |                        |                |                   |                      |
|--------------|-----------------------------------|------------------------|----------------|-------------------|----------------------|
| 1 DIN6388-ER | 2 Albero portafrese Milling shaft | 3 Weldon Whistle-Notch | 4 DIN69893-HSK | 5 CORAMANT CAPTO® | 6 ABS Licenza KOMET® |
| ER40         | Ø22-Ø27-Ø32                       | Ø20-Ø25                | HSK40          | C4                | ABS40                |



## esempio di collegamento - connection example



# TA20.30.T

## caratteristiche/features



ø 20 M14 1460 N



1-1 3500

## peso/weight



head 7,5 kg

extension L 100=7,5 kg  
L 200=15 kg

## rotazione/rotation

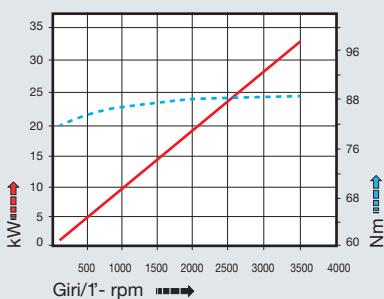


input

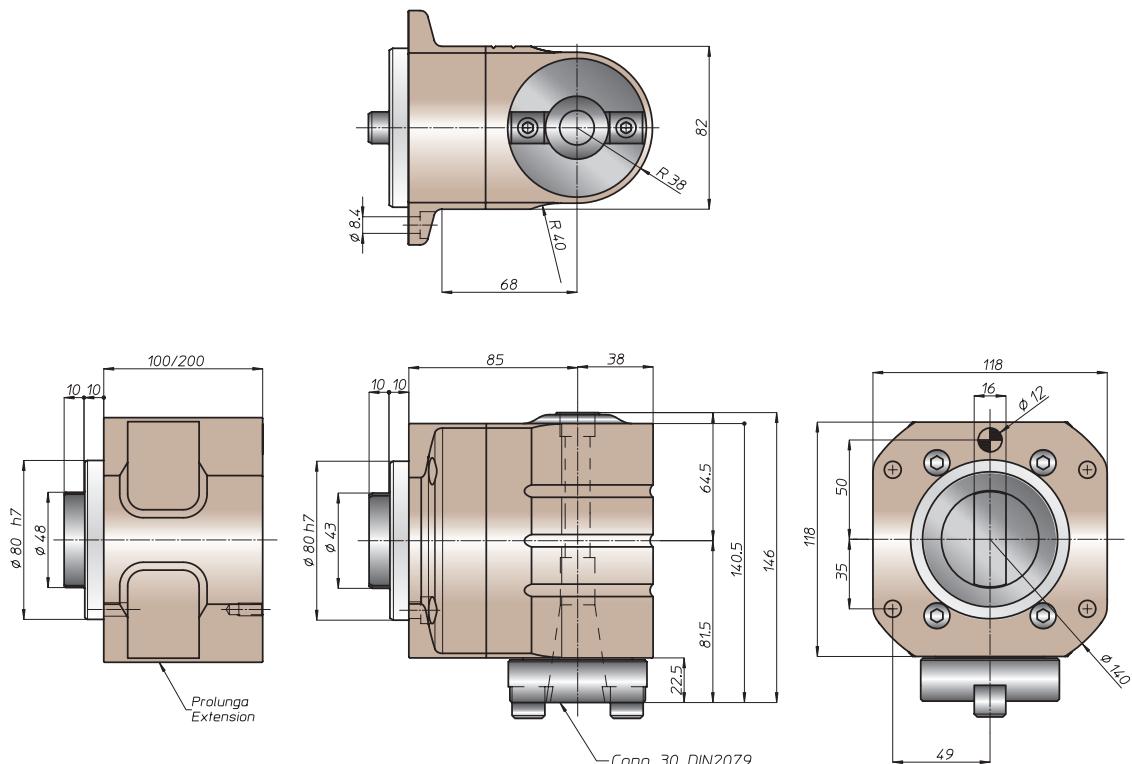


output

## prestazioni/performances



FH BAH TA.CP TA TA MO HT VH TSI/TSX T MT-Tc-Tc3 Accessori Accessories Appendice tecnica Technical supplement



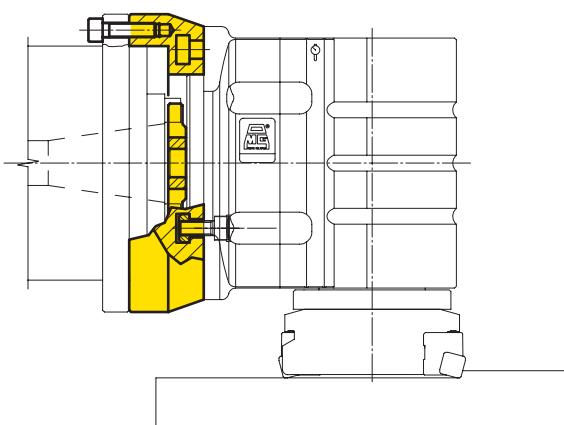
## Nota:

- nel mandrino DIN2079 si possono utilizzare coni DIN2080-30, DIN69871-A30, MAS403-BT30

## Note:

- on the spindle DIN2079 you can use shank DIN2080-30, DIN69871-A30, MAS403-BT30

## esempio di collegamento - connection example



## TA26.PT



## caratteristiche/features



ø 26 M20 3020 N



1-1 2500

## peso/weight



13,5 kg

L 100=12,5 kg  
L 200=24 kg

## rotazione/rotation

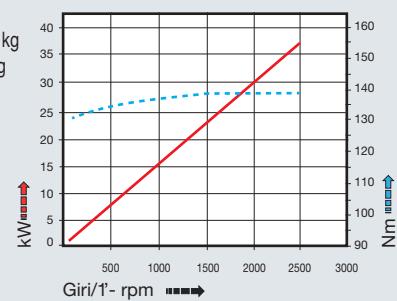


input



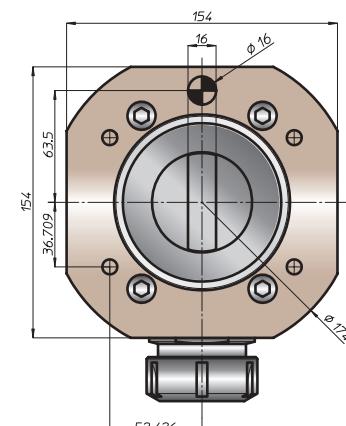
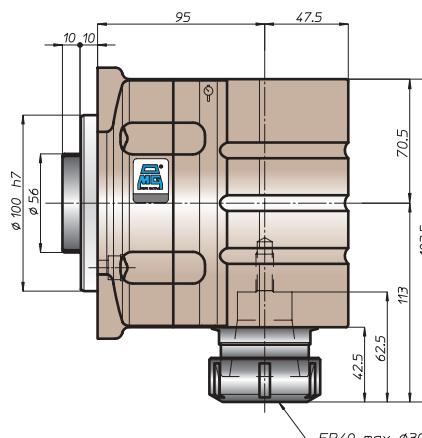
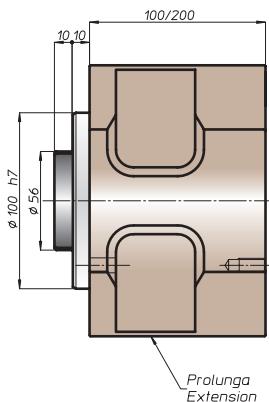
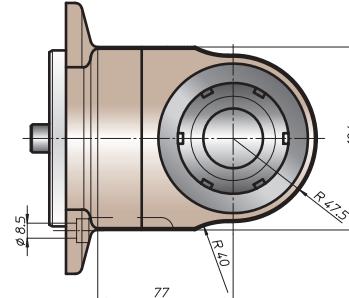
output

## prestazioni/performances



## tipi mandrino disponibili / available spindle types

- |                                      |                           |                |                      |                         |
|--------------------------------------|---------------------------|----------------|----------------------|-------------------------|
| 2 Albero portafresa<br>Milling shaft | 3 Weldon<br>Whistle-Notch | 4 DIN69893-HSK | 5 COROMANT<br>CAPTO® | 6 ABS<br>Licenza KOMET® |
|--------------------------------------|---------------------------|----------------|----------------------|-------------------------|
- Ø16-Ø27-Ø32 Ø32 HSK63 C4 ABS50



## esempio di collegamento - connection example



# TA26.40.T

## caratteristiche/features



ø 26 M20 3020 N



1-1 2500

## peso/weight



head

13,5 kg

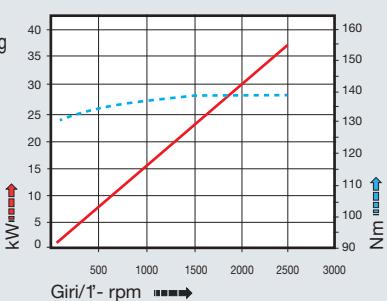


extension

L 100=12,5 kg

L 200=24 kg

## prestazioni/performances

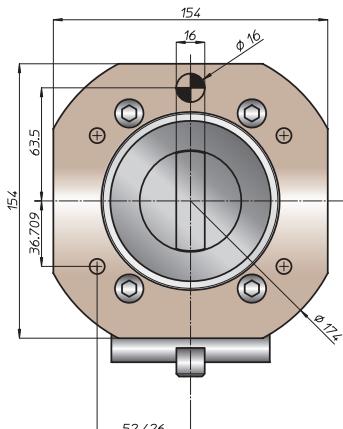
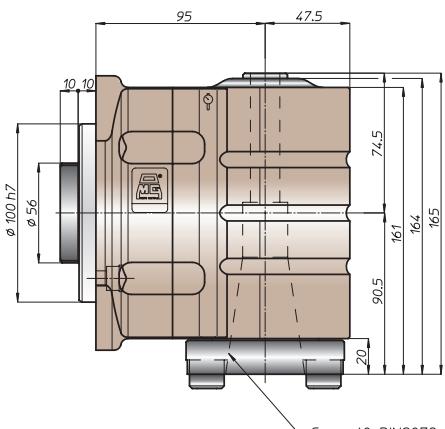
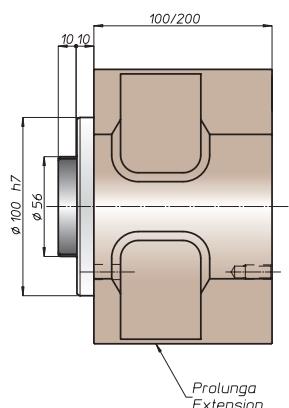
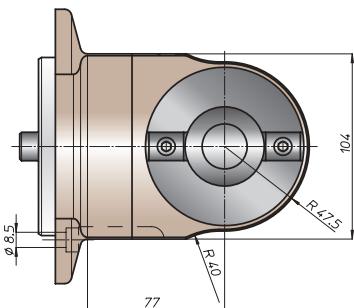
FH  
BAH  
TA.CP  
TA

MO

HT

VH  
TSI/TSX  
T

MT-Tc-Tc3

Accessori  
AccessoriesAppendice tecnica  
Technical supplement

## Nota:

- nel mandrino DIN2079 si possono utilizzare coni DIN2080-40, DIN69871-A40, MAS403-BT40

## Note:

- on the spindle DIN2079 you can use shank DIN2080-40, DIN69871-A40, MAS403-BT40

## esempio di collegamento - connection example



## TA40.T



## caratteristiche/features



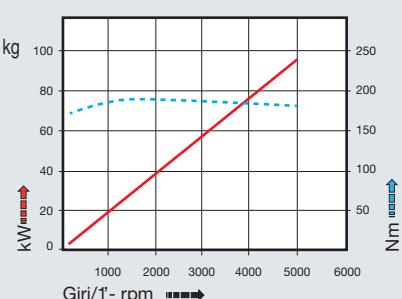
## peso/weight



## rotazione/rotation

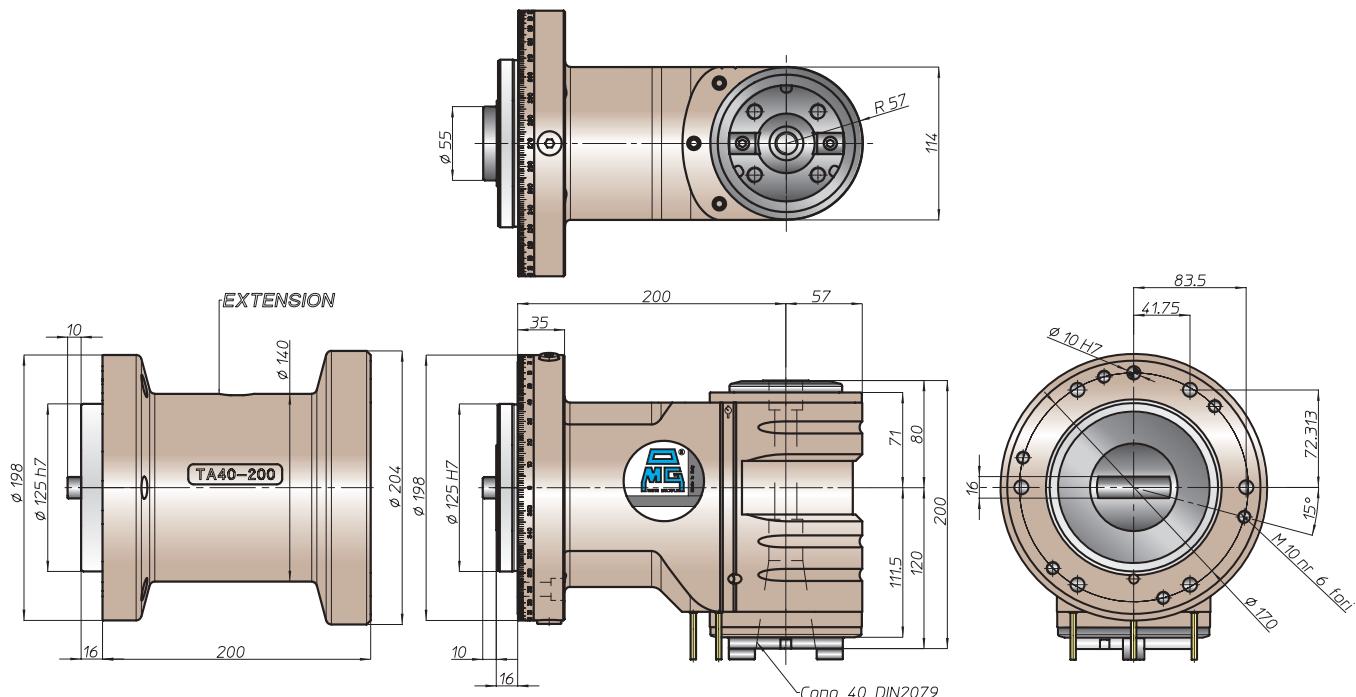


## prestazioni/performances



## tipi mandrino disponibili / available spindle types

- 4 DIN69893-HSK    5 COROMANT CAPTO®  
HSK63               C5



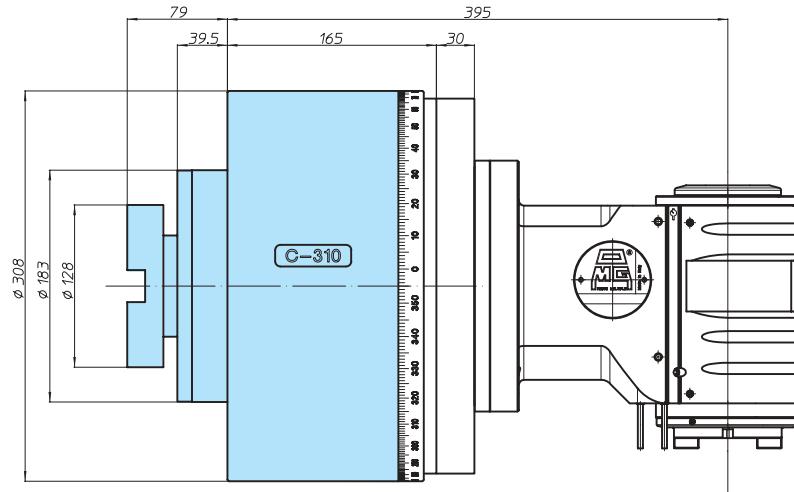
## Equipaggiamento standard:

- pressurizzazione mandrino
- n. 3 ugelli orientabili vicino al mandrino
- nel mandrino DIN2079 si possono utilizzare coni DIN2080-40, DIN69871-A40, MAS403-BT40

## Standard equipment:

- spindle front pressurization
- nr 3 adjustable nozzle near the spindle
- on the spindle DIN2079 you can use shank DIN2080-40, DIN69871-A40, MAS403-BT40

## applicazione con asse C-310 manuale - example with manual C axis C-310



# TA40.TD

## caratteristiche/features



ø 32 M26 2000 N



1-1 5000 70 bar

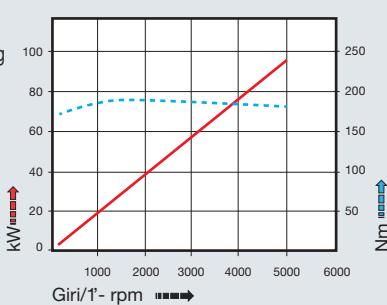
## peso/weight



head 33 kg extension L 200-26,5 kg

extension 33 kg

## prestazioni/performances

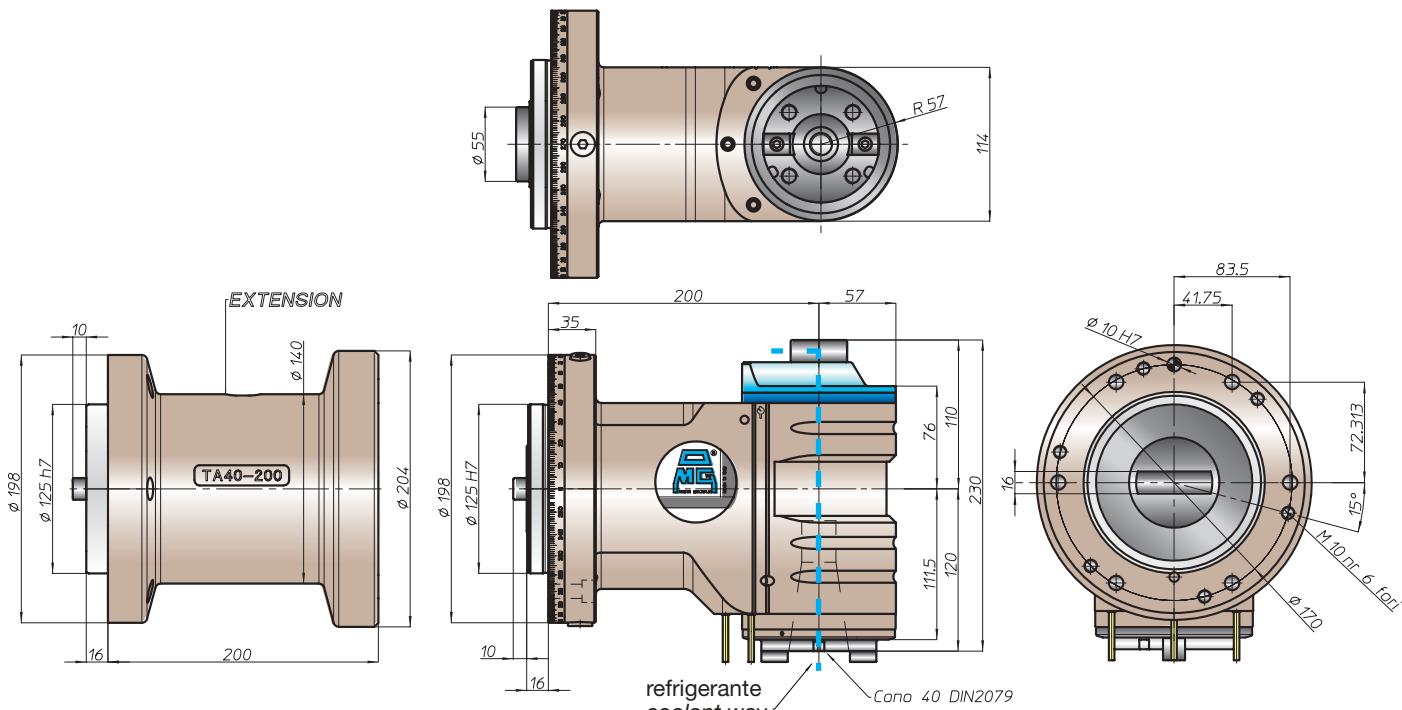


## tipi mandrino disponibili / available spindle types

4 DIN69893-HSK

5 COROMANT CAPTO®

HSK63 C5



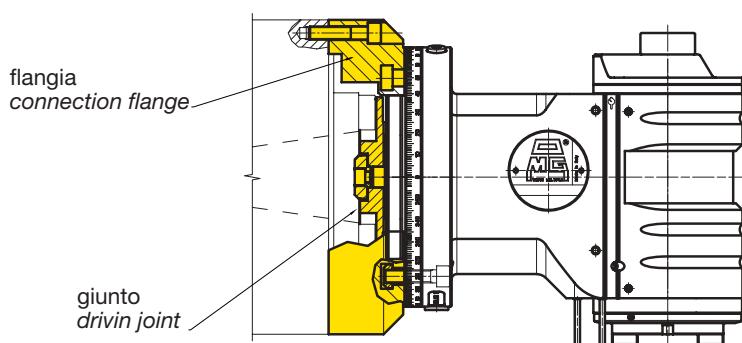
## Equipaggiamento standard:

- pressurizzazione mandrino
- n. 3 ugelli orientabili vicino al mandrino
- nel mandrino DIN2079 si possono utilizzare coni DIN2080-40, DIN69871-A40, MAS403-BT40

## Standard equipment:

- spindle front pressurization
- nr 3 adjustable nozzle near the spindle
- on the spindle DIN2079 you can use shank DIN2080-40, DIN69871-A40, MAS403-BT40

## esempio di collegamento - connection example

FH  
BAH  
TA.CP  
TA

MO

HT

VH  
TSI/TSX  
T

MT-Tc-Tc3

Accessori  
AccessoriesAppendice tecnica  
Technical supplement



## TA50.T



## caratteristiche/features



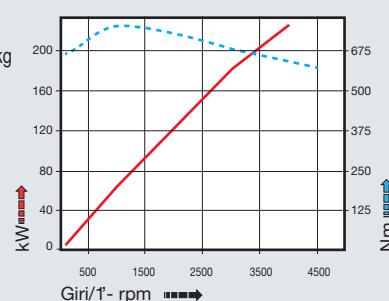
## peso/weight

head **108 kg**  
extension **L 300=110 kg**

## rotazione/rotation



## prestazioni/performances



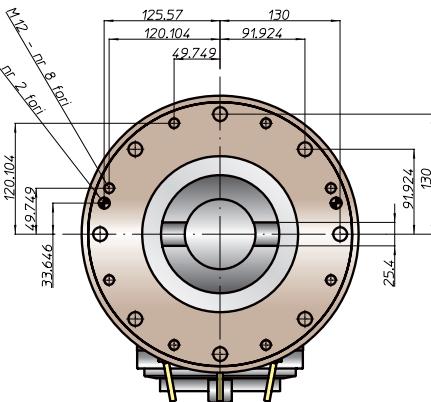
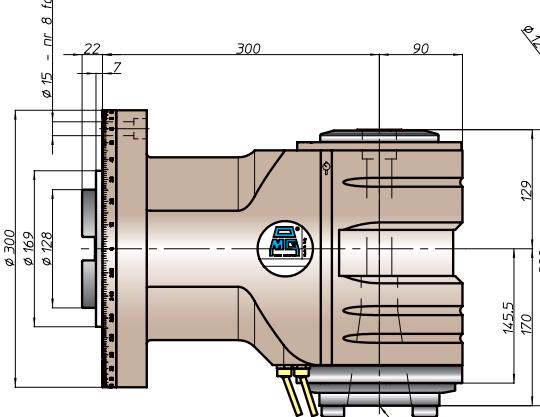
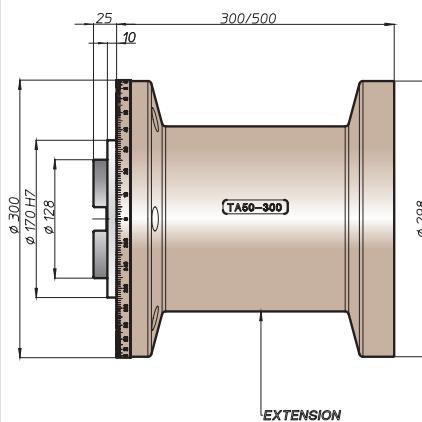
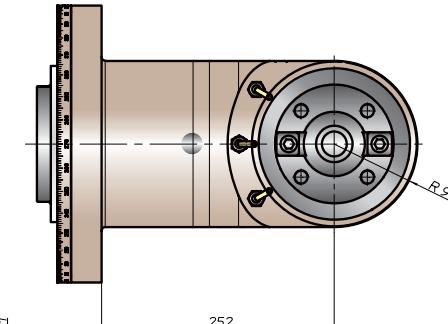
## tipi mandrino disponibili / available spindle types

4 DIN69893-HSK

5 COROMANT CAPTO®

HSK100

C8



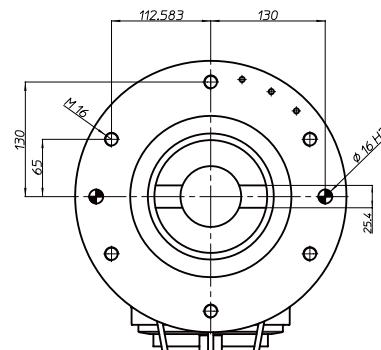
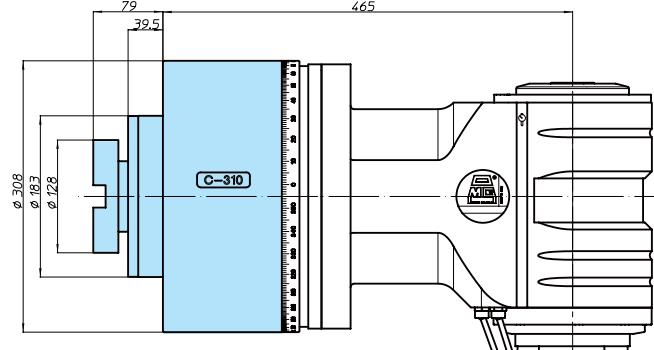
## Equipaggiamento standard:

- pressurizzazione mandrino
- n. 3 ugelli orientabili vicino al mandrino
- nel mandrino DIN2079 si possono utilizzare coni DIN2080-50, DIN69871-A50, MAS403-BT50

## Standard equipment:

- spindle front pressurization
- nr 3 adjustable nozzle near the spindle
- on the spindle DIN2079 you can use shank DIN2080-50, DIN69871-A50, MAS403-BT50

## applicazione con asse C-310 manuale - example with manual C axis C-310



# TA50.TD



## caratteristiche/features



ø 45 M36 5800 N



1-1 4000 50 bar

## peso/weight



head 112 kg



extension L 300=110 kg

## rotazione/rotation

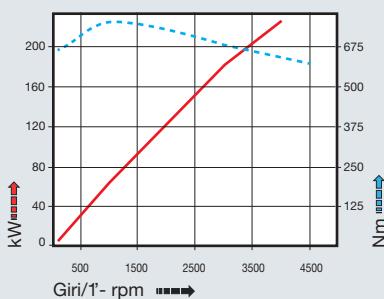


input



output

## prestazioni/performances



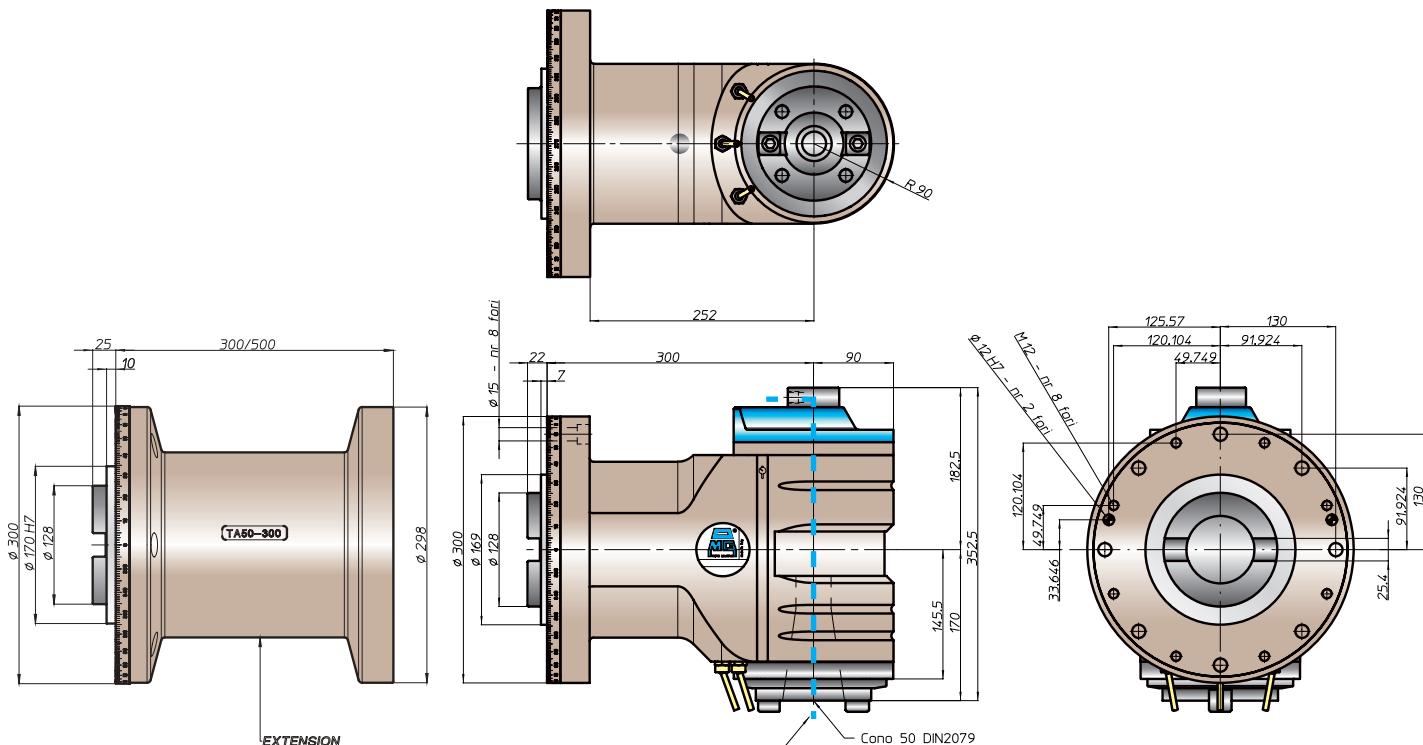
## tipi mandrino disponibili / available spindle types

4 DIN69893-HSK

5 COROMANT CAPTO®

HSK100

C8



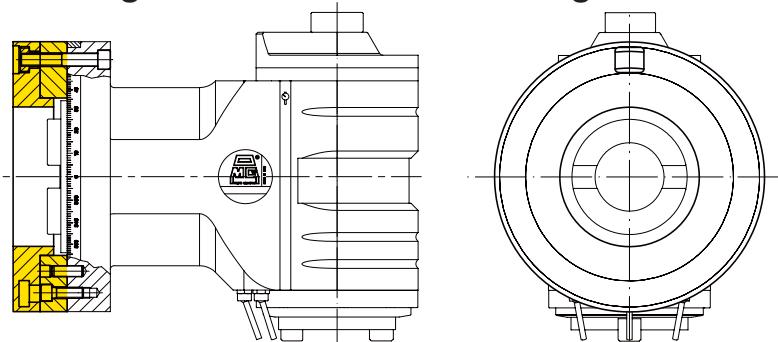
## Equipaggiamento standard:

- pressurizzazione mandrino
- n. 3 ugelli orientabili vicino al mandrino
- nel mandrino DIN2079 si possono utilizzare coni DIN69871-A50, MAS403-BT50

## Standard equipment:

- spindle front pressurization
- nr 3 adjustable nozzle near the spindle
- on the spindle DIN2079 you can use shank DIN69871-A50, MAS403-BT50

## esempio di collegamento rotante - rotant connection example



# TA..T Extended Gallery



# TA..T Extended Gallery



FH

BAH

TA..CP

TA

MO

HT

TSI/TSX VH

MT-Tc-TC3 T

Accessori  
AccessoriesAppendice tecnica  
Technical supplement

# TA13.PVDI



## caratteristiche/features

- ø 13
- M10
- 810 N
- 1-1
- 8000 rpm

## peso/weight



4,5 kg

## rotazione/rotation

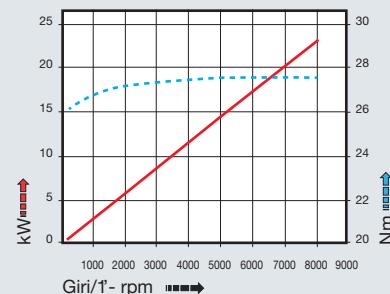


input



output

## prestazioni/performances



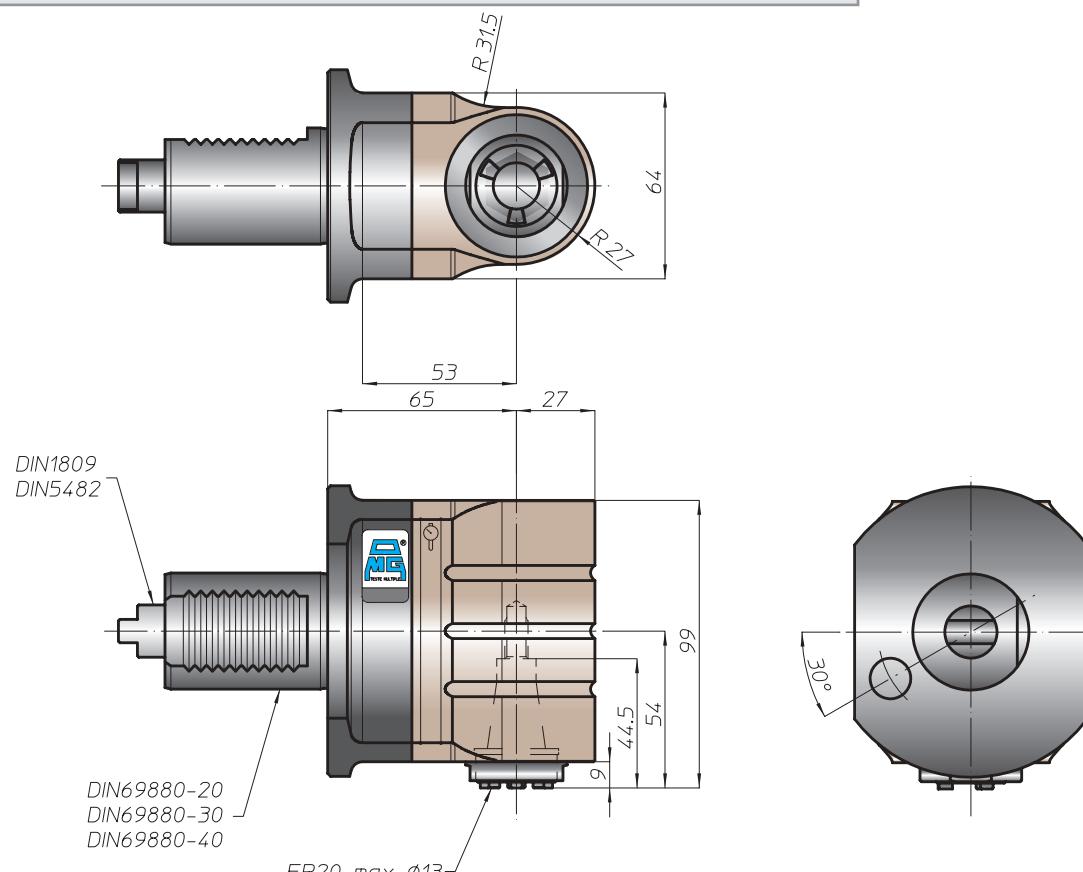
## tipi mandrino disponibili / available spindle types

- 1 DIN6388-ER    2 Albero portafrese Milling shaft    3 Weldon Whistle-Notch

ER25

Ø16-Ø22

Ø16



## soluzioni speciali - special solutions



# TA16.PVDI

## caratteristiche/features



ø 16 M12 1040 N



1-1 5000

## peso/weight



6,5 kg

## rotazione/rotation

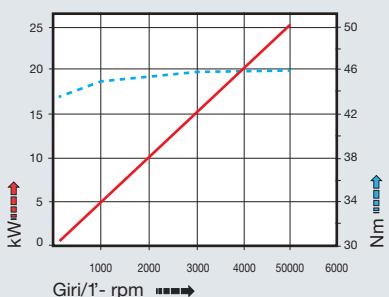


input



output

## prestazioni/performances



## tipi mandrino disponibili / available spindle types

**1** DIN6388-ER

ER32

**2** Albero portafresa  
Milling shaft

Ø16-Ø27-Ø32

**3** Weldon  
Whistle-Notch

Ø20

**4** DIN69893-HSK

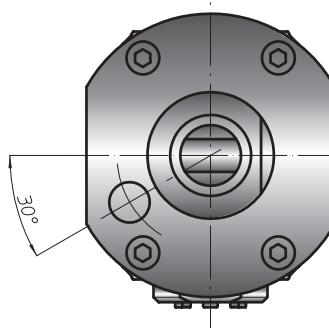
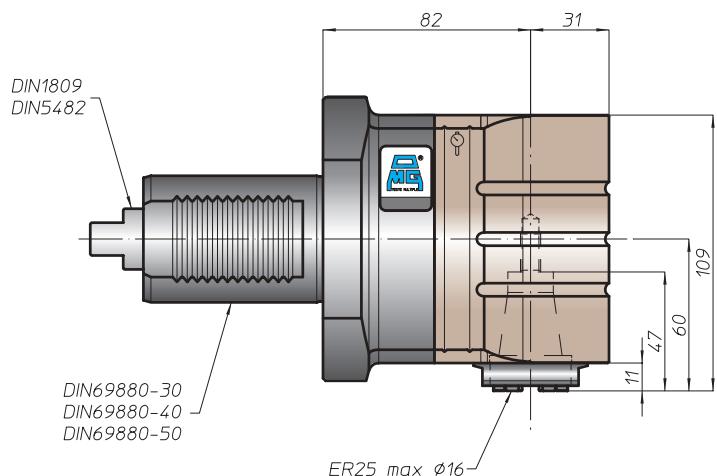
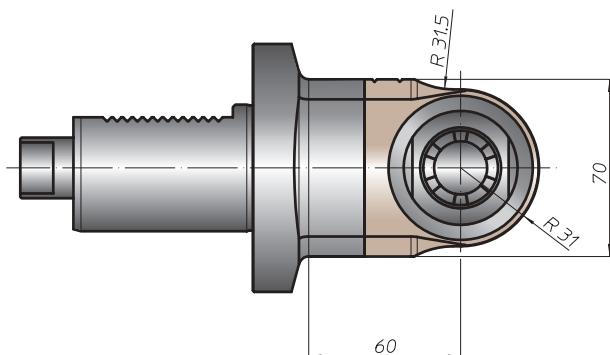
HSK32

**5** COROMANT  
CAPTO®

C3

**6** ABS  
Licenza KOMET®

ABS32



## soluzioni speciali - special solutions





# TAV10.PVDI

## caratteristiche/features



## peso/weight



3,5 kg

## rotazione/rotation

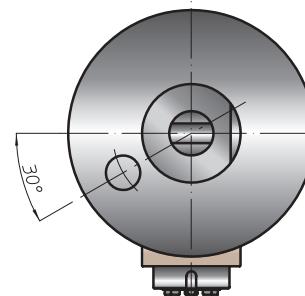
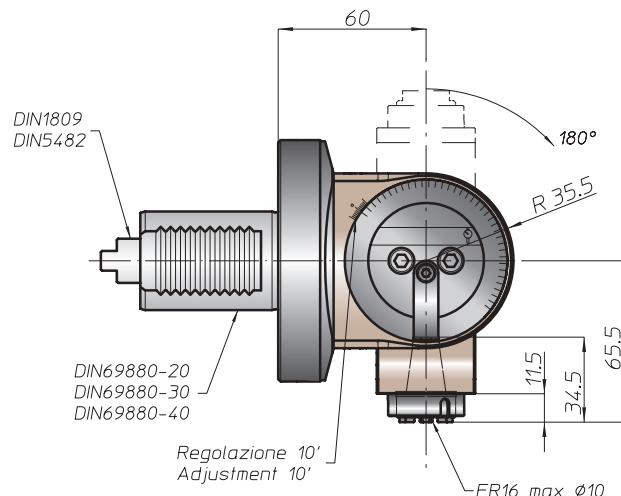
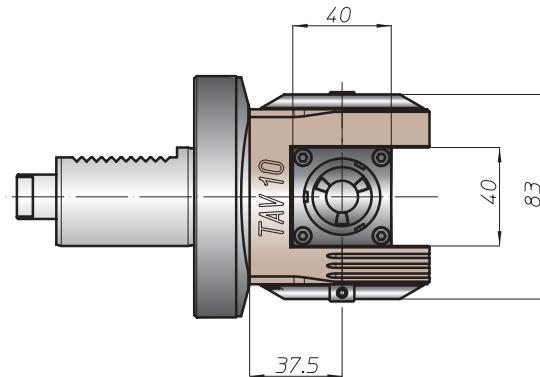
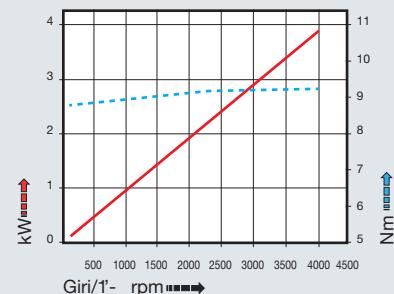


input



output

## prestazioni/performances



## soluzioni speciali - special solutions



# TAV13.PVDI

## caratteristiche/features



ø 13 M10 630 N



1-1 3000

## peso/weight



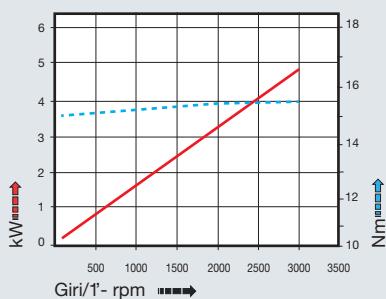
5,5 kg

## rotazione/rotation



input → output

## prestazioni/performances

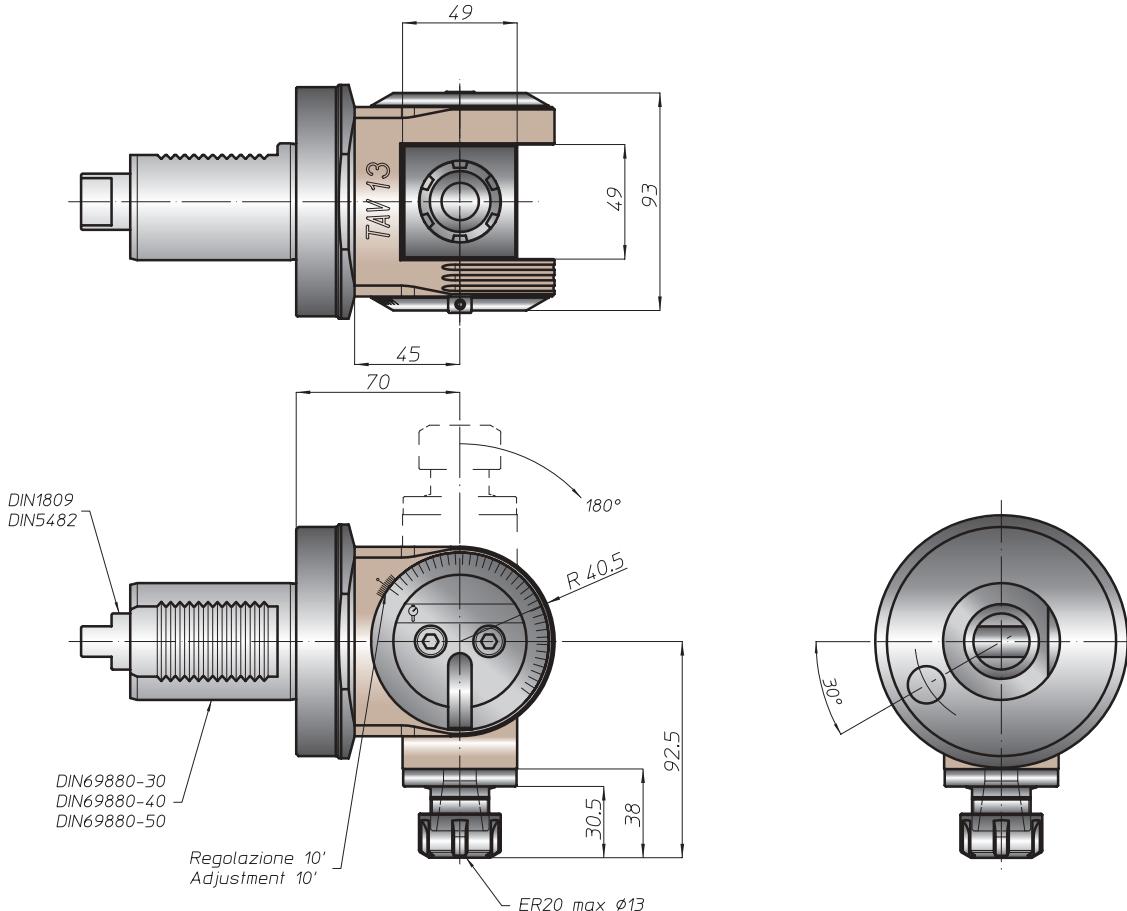


## tipi mandrino disponibili / available spindle types

**1** DIN6388-ER**3** Weldon Whistle-Notch

ER25

Ø16



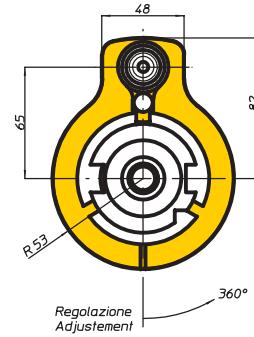
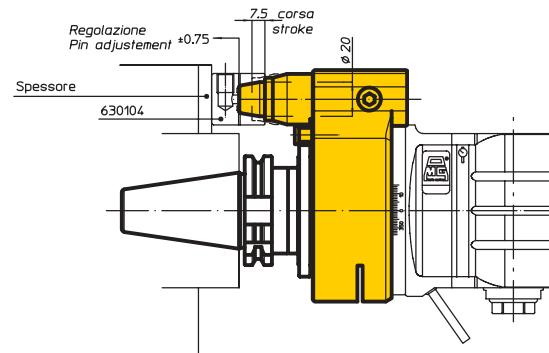
## soluzioni speciali - special solutions





# Antirotante Torque arm

Teste ad angolo con interasse H=65  
Angle heads with centre distance H=65



Il gruppo antirotante ricopre una funzione di fondamentale importanza nella qualità di lavorazione della testa ad angolo. Per questo motivo i tecnici della OMG hanno studiato e messo a punto un antirotante di nuova concezione i cui punti salienti sono:

- Il perno conico
- La registrazione assiale del perno
- Adduzione del liquido passante per il corpo testa

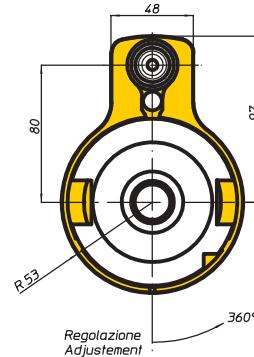
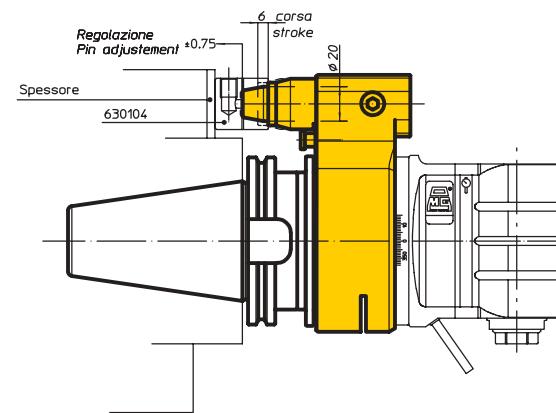
Il perno conico e la propria registrazione assiale di mm 1.5 permettono una maggiore rigidità del sistema antirotante rispetto ai tradizionali, dotati di perni di Ø18 mm perché si eliminano i giochi con conseguente miglioramento della rigidità sia angolare che assiale.

L'adduzione del liquido passante per il corpo testa, la cui uscita avviene tramite un ugello direzionale, offre il vantaggio di non avere tubi "volanti" che possono muoversi durante le lavorazioni.

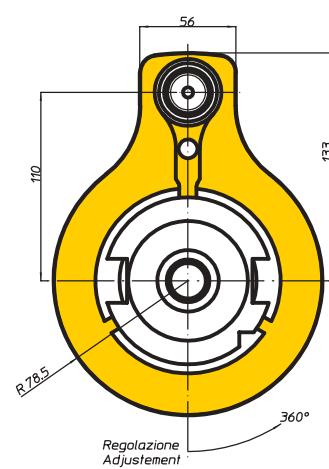
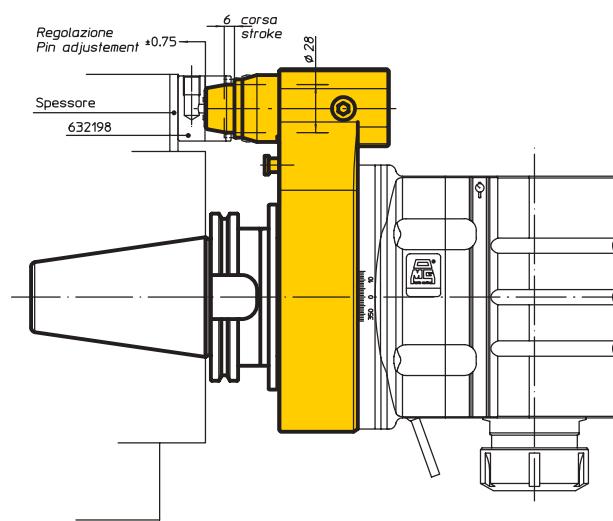


Quando possibile, nella Vostra applicazione, posizionate il perno conico dalla parte opposta al mandrino della testa ad angolo.

Teste ad angolo con interasse H=80  
Angle heads with centre distance H=80



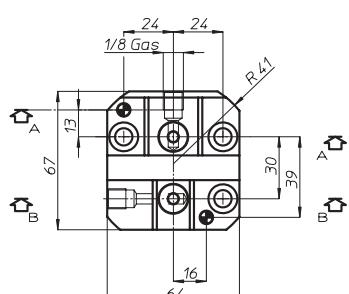
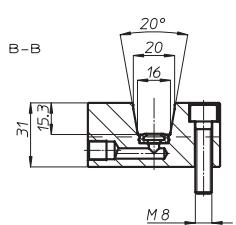
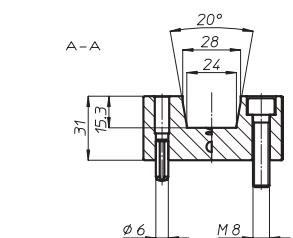
Teste ad angolo con interasse H=110  
Angle heads with centre distance H=110



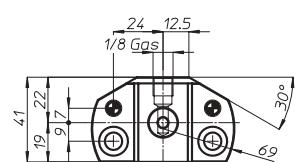
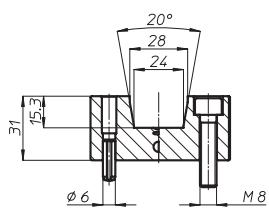
# Stop-block



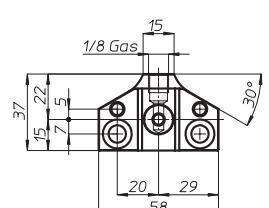
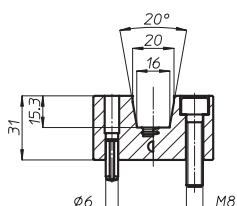
Double Stop-block (cod. 632199)



Stop-block (cod. 632198)



Stop-block (cod. 630104)



The torque arm system is crucial as far as angle-head machining quality is concerned. For this reason OMG technicians have designed and developed a new system with the following characteristics:

- conical pin
- axial pin adjustment
- coolant through the head body

The conical pin and its 1.5 mm axial adjustment ensure upgraded antirotation system strength compared to traditional systems, featuring Ø 18 mm pin, because play is eliminated, thereby improving both angular and axial strength.

By the pin the coolant through the head, thanks to an adjustable nozzle, the added advantage is achieved of eliminating "free" pipes that could move during machining operations.

**i**  
Position the conical pin on the opposite side of the angle head spindle when possible in your application.



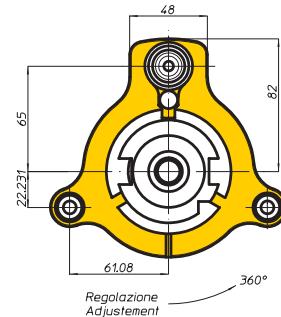
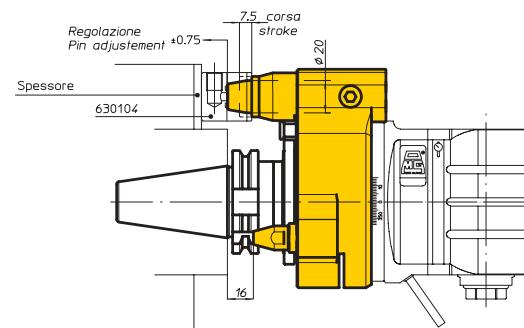
# Antirotante/Torque arm

Il gruppo antirotante **TriBlock** ricopre una funzione di fondamentale importanza quando alla testa ad angolo è richiesto di:

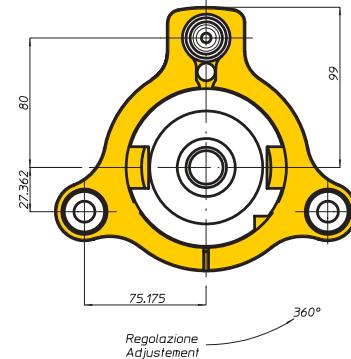
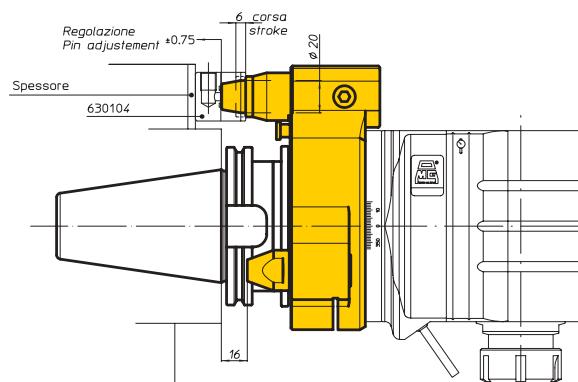
- eseguire una lavorazione più pesante
- essere più lunga dello standard
- finitura superficiale eccellente

Il **TriBlock** è dotato di tre punti di appoggio di cui uno è lo standard come nei precedenti e due supplementari da registrare tramite un rasamento. Questi tre punti, allargando l'appoggio di base della testa ad angolo, consentono di ottenere una rigidità superiore allo standard. Quando poi si richiede alla testa di essere immagazzinata su di un supporto esterno al magazzino standard, ecco che il **TriBlock** utilizza i propri tre punti per posizionare la testa.

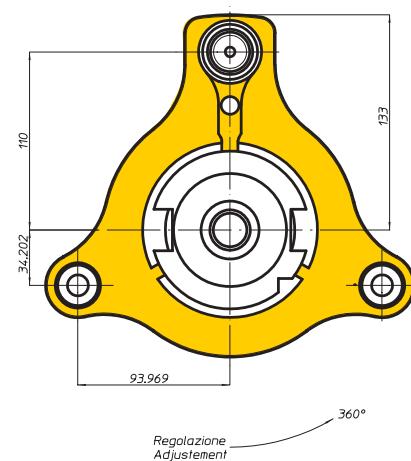
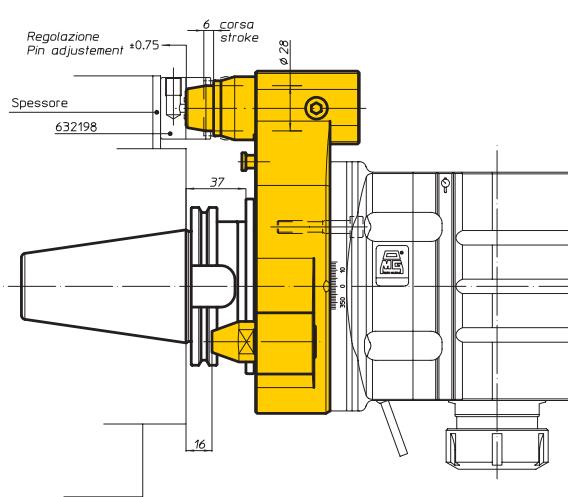
Teste ad angolo con interasse H=65  
Angle heads with centre distance H=65



Teste ad angolo con interasse H=80  
Angle heads with centre distance H=80

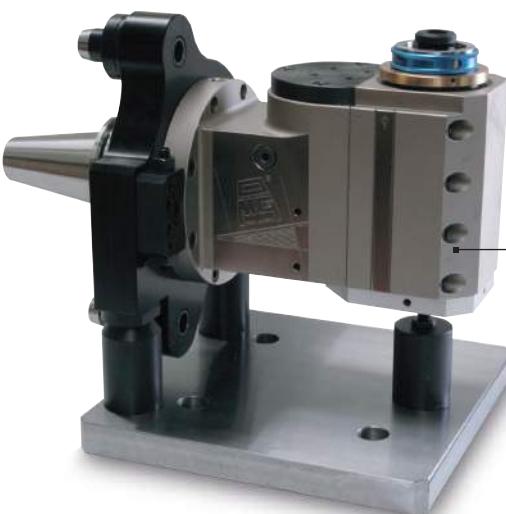
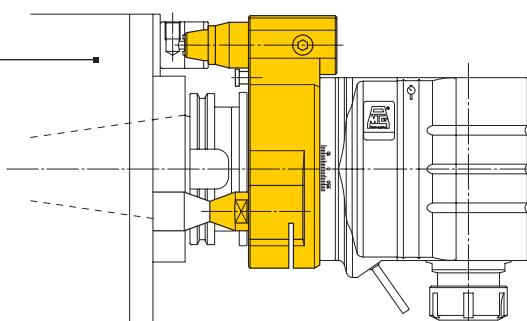


Teste ad angolo con interasse H=110  
Angle heads with centre distance H=110



# Antirotante/Torque arm

Sul mandrino macchina  
On spindle machine



**TFS 19907**

Testa ad angolo per fresatura  
componente motore a reazione.

Peso Kg 45,5

Milling angle head for jet engine.

Weight Kg 45,5

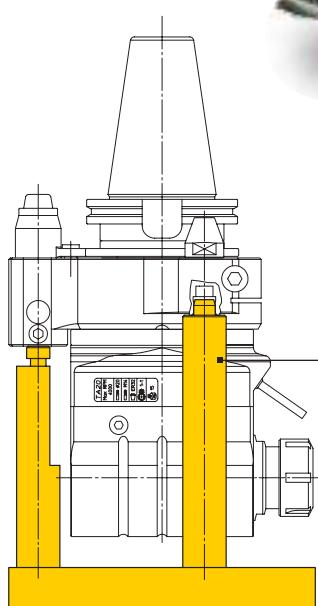


**TFS 39195**

Testa bimandrino di fresatura n° 2 fresa  
Ø 100 peso Kg 33

Twin milling head, nr. 2 milling cutter  
Ø 100 weight Kg 33

Sul supporto da tavola  
On rack table



The **TriBlock** system is of crucial importance when it comes to:

- doing difficult jobs
- having a head that is longer than standard
- achieving an excellent surface finish

The **TriBlock** system features three supporting points, one of which is standard, as in the previous version, plus two additional ones that need adjusting by means of a spacer. These three points, by extending the angle-head supporting base, provide above-average standards of strength.

When the head has to be stored on a rack table outside the standard magazine, the **TriBlock** system uses the three points to storage the angle heads.

FH

BAH

TA.CP

TA

MO

HT

VH

TSI/TSX

MT-Tc-TC3

Accessori  
Accessories

Apendice tecnica  
Technical supplement



Il sistema antirotante **QuadBlock** è un sistema all'avanguardia per equipaggiare Teste ad Angolo dove si richiede alta asportazione e alta rigidità dell'insieme "testa ad angolo-macchina". Utilizzabile nel montaggio manuale, esso consiste in un anello antirotante completo di quattro perni di contrasto suddivisi equamente sui 360°. Tale disposizione consente di poter ruotare la Testa ad Angolo in automatico con un semplice movimento della macchina, se questa ne ha le capacità. Il vantaggio di poter lavorare quattro facce del pezzo senza sostituire la Testa ad Angolo si concretizza con la riduzione dei costi previsti per gli utensili.

L'evoluzione del sistema **QuadBlock** per le macchine con cambio automatico, consente di utilizzare la Testa ad Angolo come un prolungamento del mandrino macchina ruotato dei gradi richiesti dal cliente. È possibile inoltre sostituire il portautensile in automatico ed ampliare infinitamente la versatilità della macchina utensile avendo a disposizione quei servizi normalmente presenti sul mandrino macchina:

- Aria pulizia del portautensile
- Liquido refrigerante centro utensile alta pressione
- Liquido refrigerante esterno utensile
- Liquido bloccaggio-sbloccaggio utensile
- Controllo presenza utensile

Tutto ciò per consentire l'utilizzo di portautensili tipo Capto, HSK, DIN69871. Mettiamo a disposizione il nostro ufficio tecnico e la nostra esperienza per personalizzare al meglio il Vostro sistema.

# Antirotante/Torque arm

## TAS13609

Fresatura su corpo in fusione

di ghisa. Peso kg 36.

*Milling on cast iron pump's body. Weight 36 kg.*



## TAS13209

Lavorazione di finitura interna culle motore idraulico. Peso kg 36.

*Internal finishing work for hydraulic motor's body. Weight 21 kg.*



## TAS16209

Linee di servizio per il mandrino HSK63F con cambio automatico dell'utensile, sensore presenza utensile in radiofrequenza.

Peso kg 28.

*Utility line for HSK63F spindle with automatic tool change, radio-frequency switch to verify tool presence. Weight 28 kg.*



# Antirotante/Torque arm

## TAS24408

Lavorazione di fresatura interna corpo pinza freno in ghisa.

Peso Kg 28.

*Triblock with automatic locking.*

*Cast iron brake housing internal milling work. Weight 28 kg.*



## TA12907

Lavorazione di fresatura generica struttura elettrosaldata di acciaio.

Peso Kg 48.

*Special Quadblock with automatic locking. General milling work on electro-welded steel structure.*

*Weight 48 kg.*

## TAS08606

Servizi per mandrino CAPTO C4 con cambio automatico dell'utensile.

Peso kg 36.

*Spindle with utility line for CAPTO C4 with automatic tool change.*

*Weight kg 36.*



The **QuadBlock** torque arm is a forefront system to equip Angle Heads which are requested with a high removal machining capacity and with extremely high rigidity in coupling with the machine tool. It can be used with a manual tool change and is made by a torque arm ring complete with four counterposed pins with same distance each other on the 360°. Such a layout allows an automatic rotation of the Angle Head with a simple movement of the machine if featured to do it. The possibility of machining four faces of the piece without replacing the Angle Head is giving the advantage of reducing costs of tools equipment.

The evolution of the **QuadBlock** system on automatic tool change machines allows to use the Angle Head like an extension of the machine spindle with the degree rotations required by the customer. It is also possible to automatically change the tool holder and to infinitely widen the versatility of the machine tool getting those utilities normally available on the machine spindle:

- tool-holder cleaning air
- through-tool high pressure coolant
- side-tool coolant
- tool locking-unlocking liquid
- tool presence control

All these to allow using tool-holders like Capto, HSK, DIN69871. Our R&D department is at your disposal with his experience to customize your system at its best.

FH

BAH

TA.CP

TA

MO

HT

VH

TSI/TSX

TC3

Accessori  
Accessories

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# Teste ad angolo speciali

## Special angle heads



**TFS 41304**

Testa ad angolo di fresatura con mandrino ribaltato.  
Fresa Ø 200. Peso Kg 327,5.

Milling angle head with reverse spindle.  
Milling tool Ø 200. Weight Kg 327,5.



**TFS 05303**

Testa ad angolo di fresatura con  
fresa diam. 7 peso Kg 8  
Milling angle head with milling  
cutter diam. 7 weight Kg 8



**TAS 15505**

Testa ad angolo di foratura e fresa-  
tusa, attacco utensile CAPTO C4  
automatico. Peso Kg 130.  
Drilling and milling angle head, auto-  
matic tools changer CAPTO C4.  
Weight Kg 130.



**TFS 23301**

Testa ad angolo di foratura  
a tre mandrini peso kg 5,9  
Drilling angle head with  
three spindles weight kg 5,9



**TFS 39998**

Testa ad angolo universale.  
Presa utensili ISO50, peso kg 580  
Angle head with tool  
shank ISO50, weight kg 580

# Teste ad angolo speciali

## Special angle heads

**TFS 36699**

Testa ad angolo bimandrino registrabile, peso kg 29  
*Adjustable twin angle head, weight kg 29*

**TFS 34004**

Testa ad angolo di foratura a 3 mandrini a 120°.  
*Drilling angle head, n 3 spindles at 120°.*  
 Peso Kg 18.  
*Weight Kg 18.*

**TA 09603**

Testa ad angolo di alesatura con utensile Ø 160 peso Kg 77  
*Boring angle head with tools Ø 160 weight Kg 77*

**TFS 08993**

Testa ad angolo speciale con doppia coppia di mandrini contrapposti peso kg 18  
*Angle head with two opposite twin spindles weight kg 18*

**TFS 06003**

Testa ad angolo di fresatura con fresa Ø 110 peso Kg 210  
*Milling angle head with milling cutter Ø 110 weight Kg 210*

# Teste ad angolo speciali

## *Special angle heads*



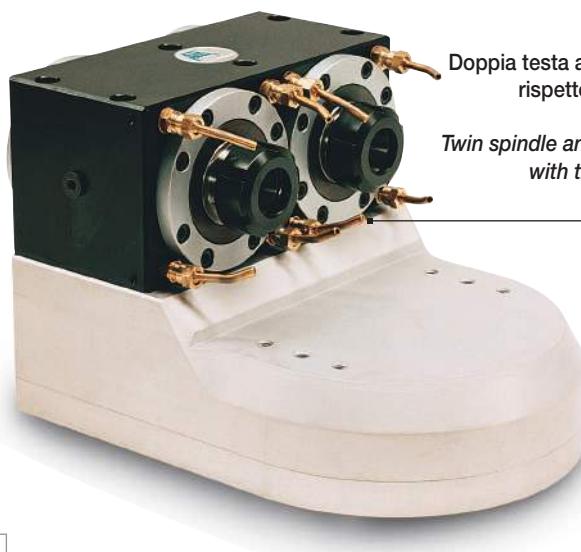
**TAS 33206**  
Testa bimandrino di fresatura  
per frese Ø 160 peso kg 63  
*Twin milling head with  
milling cutter Ø 160 weight kg 63*



**TFS 21701**  
Testa di fresatura a due mandrini  
paralleli, peso kg 14  
*Milling angle head with two parallel  
spindles, weight kg 14*



**TFS 34495**  
Testa bimandrino di fresatura n. 2 frese Ø 130  
peso kg 290  
*Twin milling head, nr. 2 milling cutter Ø 130  
weight kg 290*



**TFS 16696**  
Doppia testa ad angolo disassata  
rispetto all'asse macchina  
peso kg 24  
*Twin spindle angle head not in line  
with the machine spindle  
weight kg 24*



**TFS 36994**  
Testa bimandrino di fresatura  
n. 2 frese Ø 60, peso kg 15,5  
*Twin milling head, nr. 2 milling  
cutter Ø 60, weight kg 15,5*

# Teste ad angolo speciali

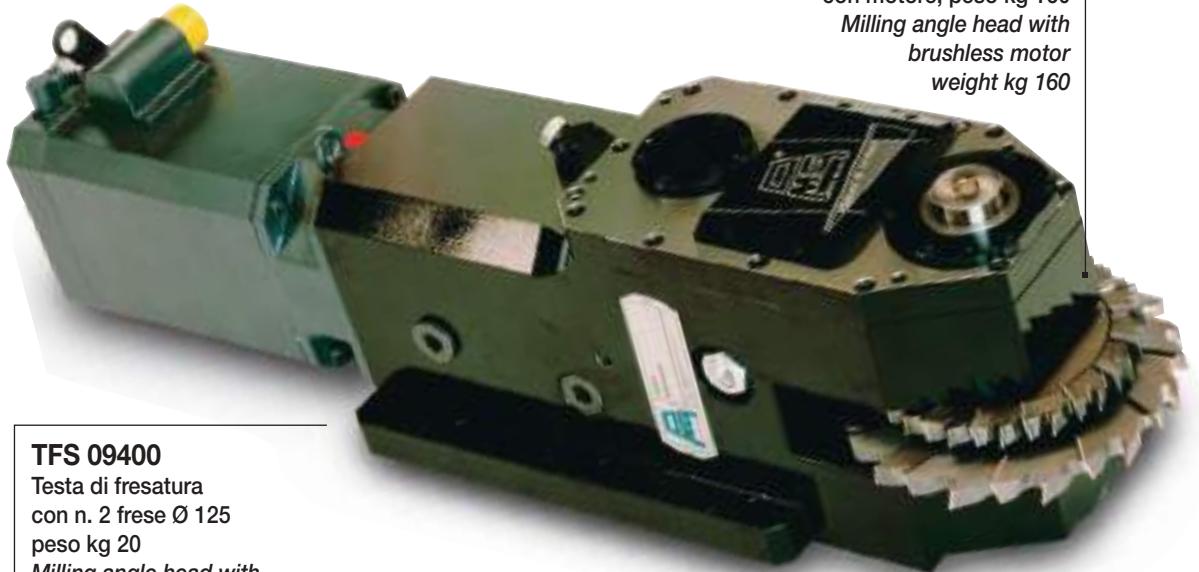
## Special angle heads



**TFS 12101**  
Testa di fresatura con cono ISO30  
peso kg 16  
*Milling angle head with ISO30  
weight kg 16*



**TFS 13094**  
Testa ad angolo disassata  
rispetto all'asse macchina  
peso kg 17  
*Angle head not in line  
with the machine spindle  
weight kg 17*



**TFS 50900**  
Testa di fresatura  
con motore, peso kg 160  
*Milling angle head with  
brushless motor  
weight kg 160*



**TFS 09400**  
Testa di fresatura  
con n. 2 frese Ø 125  
peso kg 20  
*Milling angle head with  
nr. 2 milling cutter Ø 125  
weight kg 20*



**TFS 24196**  
Testa ad angolo bimandrino per  
fresatura su scatola del cambio  
peso kg 70  
*Twin milling spindle angle head  
on gear box weight kg 70*

# Teste ad angolo speciali

## Special angle heads

**TAS 41504**

Testa ad angolo mandrino di fresatura. Peso Kg 338.

Twin milling angle head.  
Weight Kg 338.



**TFS 35698**

Testa ad angolo di fresatura con fresa Ø 100 peso Kg34

Milling angle head, with  
milling cutter Ø 100  
weight Kg 34



**TFS 12005**

Testa ad angolo disassata per fresature Ø 150.

Peso Kg 48.

Shift spindle angle head,  
milling tools Ø 150.

Weight Kg 48.



**TFS 28603**

Testa di fresatura con n. 4 fresa a disco Ø 125. Peso Kg 218.

Milling head, nr. 4 milling disc  
cutter Ø 125. Weight Kg 218.



# Teste ad angolo speciali

## Special angle heads



**TFS 33303**  
Testa ad angolo disassata  
per foratura. Peso Kg 9,4.  
*Angle head with shift  
drilling spindle.  
Weight Kg 9,4.*



**TFS 12095**  
Testa ad angolo di  
foratura peso kg 5  
*Drilling angle head  
weight Kg 5*



**TAS 30505**  
Testa ad angolo di foratura  
HSK100 entrata e uscita.  
Peso Kg 50.  
*Drilling angle head, HSK 100  
input-output. Weight Kg 50*



**TFS 33503**  
Testa ad angolo di lucida-  
tura con doppia rotazione,  
sia corpo che utensile.  
Peso kg 6,5.  
*Polish angle head with  
double rotation: body and  
tools. Weight Kg 6,5.*



**TFS 13198**  
Testa ad angolo  
disassata per foratura  
peso kg 5  
*Angle head with  
shift spindle  
weight kg 5*

# Teste ad angolo speciali

## Special angle heads

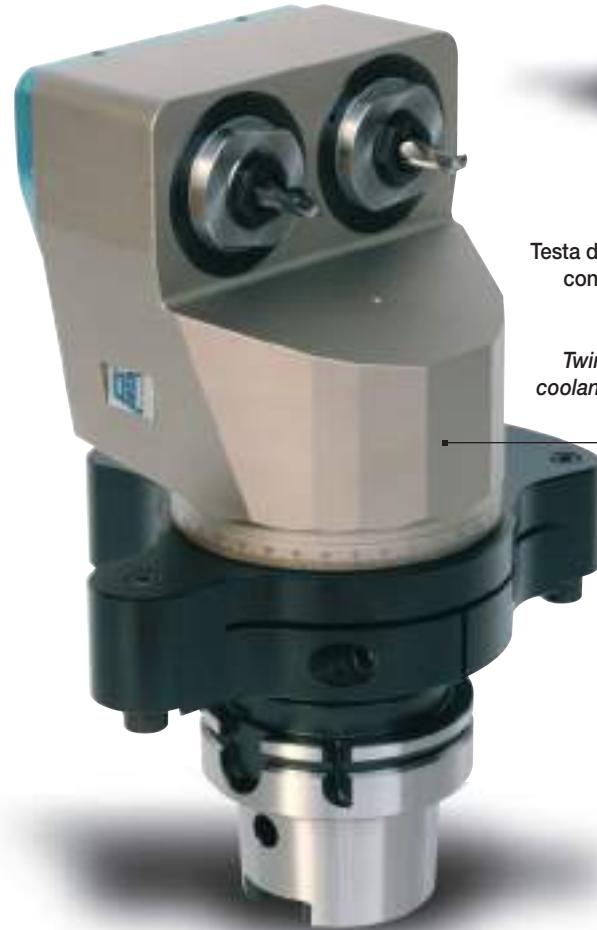


**TFS 39997**  
Testa ad angolo speciale  
bimandrino per foratura e  
maschiatura peso kg 16  
*Twin angle head for  
drilling and tapping  
weight kg 16*

**TAS 13806**  
Testa bimandrino Capto C5  
manuale, peso kg 33  
*Twin angle head with Capto C5  
manual clamping tool  
weight kg 33*



**TAS 39806**  
Testa di foratura a due mandrini  
con refrigerante attraverso il  
centro utensile a 50 Bar  
peso kg 21  
*Twin drilling angle head with  
coolant through the centre tool  
at 50 Bar, weight kg 21*



**TAS 08606**  
Testa fresatura conica su acciaio  
peso kg 23  
*Milling angle head with conical tool  
weight kg 23*

**TFS 40601**  
Testa ad angolo bimandrino,  
angolo tra i due mandrini 176°,  
peso Kg 13  
*Twin angle head, angle 176°  
between spindles, weight Kg 13*



# Teste ad angolo speciali

## Special angle heads

FH  
BAH  
TA.CP  
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**TFS 20298**  
Testa bimandrino di fresatura  
n°2 fresa Ø 120 peso kg 25  
*Twin milling angle head, nr.2  
milling cutter Ø 120  
weight kg 25*



**TA 05500**  
Testa ad angolo di fresatura  
con fresa Ø125 peso kg 17  
*Milling angle head with milling  
cutter Ø 125, weight kg 17*



**TAS 20706**  
Testa per fresatura interna  
pinza freno peso Kg 23  
*Angle milling head for brake  
housing weight Kg 23*



**TAS 39706**  
Testa di fresatura per  
supporto motore frese  
Ø160/180 peso kg 31  
*Milling head for engine's  
bracket milling cutter  
Ø160/180 weight kg 31*



**TA 34397**  
Testa ad angolo  
di fresatura  
con cono ISO20  
peso kg 0,9  
*Milling angle head  
with shank ISO20  
weight kg 0,9*



**TFS 39999**  
Testa ad angolo  
speciale fresatura  
su plastica peso kg 4  
*Milling angle head  
for plastic weight kg 4*



**TA 17292**  
Testa ad angolo di fresatura  
n. 2 fresa per legno  
peso kg 3  
*Twin angle head with nr. 2  
milling cutter for wood  
weight kg 3*

# Teste ad angolo speciali Special angle heads

**TAS 37806**

Testa ad Angolo di fresatura  
componente aeronautico,  
materiale Inconel. Peso Kg 40  
*Milling Angle Head for  
aeronautic piece, Inconel alloy  
material. Weight Kg 40*



**TFS 23910**

Testa ad Angolo bimandrino,  
fresatura di componente  
in ghisa. Peso Kg 50  
*Twin Angle Head, milling  
cast iron pieces.  
Weight Kg 50*



**TFS 31110**

Testa ad Angolo di foratura  
con mandrino HSK50 ribal-  
tato. Peso Kg 31  
*Drilling Angle Head with  
HSK50 reverse spindle.  
Weight Kg 31*



**TAS 10708**

Testa ad Angolo lunghezza  
mm 1.000, fresatura di cave  
su acciaio. Peso Kg 216  
*Angle Head overall lenght  
mm 1.000, milling key-way  
on steel. Weight Kg 216*



**TAS 13910**

Testa ad Angolo di foratura  
con mandrino ER25.  
Peso Kg 31  
*Drilling Angle Head with  
ER25 spindle.  
Weight Kg 31*

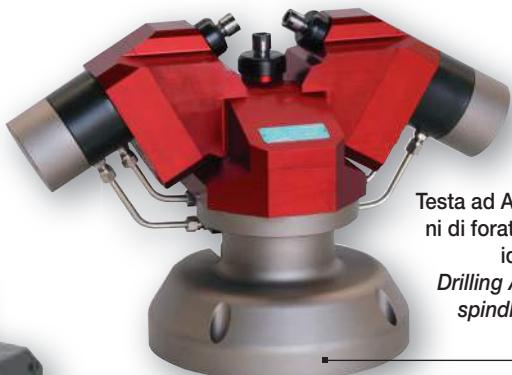


# Teste ad angolo speciali

## Special angle heads



**TFS 05609**  
Testa ad Angolo di fresatura per tornio verticale.  
Peso Kg 286  
*Milling Angle Head for vertical lathe. Weight Kg 286*



**TAS 08411**  
Testa ad Angolo con tre mandrini di foratura con avanzamento idraulico. Peso Kg 17,5  
*Drilling Angle Head with three spindles, hydraulic spindles feed. Weight Kg 17,5*

**TFS 26908**  
Testa ad Angolo bimandrino di foratura per macchina transfer. Peso Kg 9,5  
*Twin drilling Angle Head for transfer machine.*  
*Weight Kg 9,5*



**TAS 19610**  
Testa ad Angolo di fresatura per macchina transfer.  
Peso Kg 35  
*Milling Angle Head for transfer machine. Weight Kg 35*



**TAS 28010**  
Testa ad Angolo con tre assi a regolazione manuale.  
Peso Kg 590  
*Angle Head with three manual movement axis.*  
*Weight Kg 590*

# Teste ad angolo speciali Special angle heads



**TAS 19010**  
Testa ad Angolo di foratura per macchina transfer. Max RPM 20.000.  
Peso Kg 5  
*Drilling Angle Head for transfer machine. Max RPM 20.000.  
Weight Kg 5*

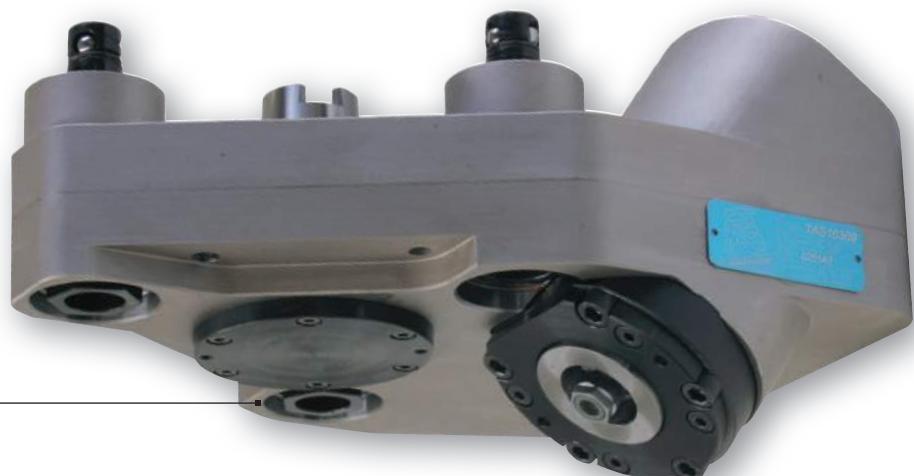
**TAS 26810**  
Testa ad Angolo TAO20, utilizzata in fresatura su torretta a revolver HT250. Peso Kg 14  
*Milling Angle Head TAO20, assembled on HT250 turret head. Weight Kg 14*



**TAS 09407**  
Testa ad Angolo per fresa-tura canna di fucile.  
Peso Kg 6,5  
*Milling Angle Head for rifle barrel. Weight Kg 6,5*



**TFS 06906**  
Testa ad Angolo di foratura scatola sterzo. Peso Kg 10  
*Drilling Angle Head for steering body.  
Weight Kg 10*



**TAS 16308**  
Testa ad Angolo di foratura con mandrino HSK32 a cambio automatico utensile. Peso Kg 13,5  
*Drilling Angle Head with spindle HSK32 with automatic tool changer. Weight Kg 13,5*

# Teste ad angolo speciali

## Special angle heads

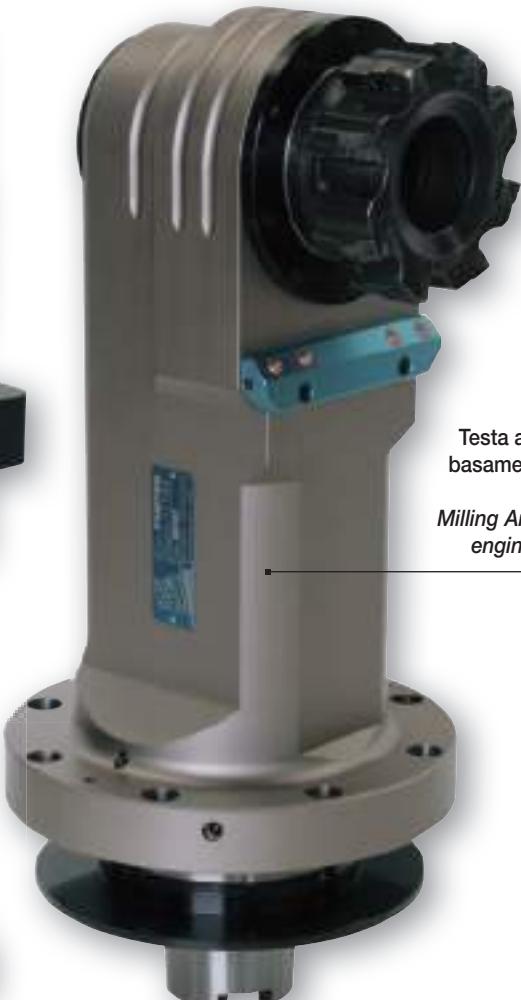
### TAS 24508

Testa ad Angolo di fresatura  
pinza freno. Peso Kg 29  
*Milling Angle Head for brake  
truck body. Weight Kg 29*



### TAS 07309

Testa ad Angolo di fresatura,  
basamento motore 12 cilindri.  
Peso Kg 60  
*Milling Angle Head, 12 cylinder  
engine block. Weight Kg 60*



### TAS 24010

Testa ad Angolo di foratura componente  
aeronautico in alluminio.  
Peso Kg 13,5  
*Drilling Angle Head for aluminium  
aeronautic component. Weight Kg 13,5*



### TAS 07509

Testa ad Angolo bimandrino di alesa-  
tura, motore 12 cilindri. Peso Kg 63  
*Twin spindle boring Angle Head, 12  
cylinder engine block. Weight Kg 63*



### TAS 28606

Testa ad Angolo di foratura compone-  
nte aeronautico con mandrino HSK50,  
materiale Inconel. Peso Kg 27  
*Drilling Angle Head with HSK50 spin-  
dle for aeronautic piece, Inconel alloy  
material. Weight Kg 27*