

emi di
emi di forat
stemi di forat
stemi di forat
stemi di forat
stemi di forat

TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3



Made in Italy

Sistemi di foratura
di foratura

O.M.G. Srl is pleased to present, in a single graphic solution, its entire range of products, all designed and built inside its production facility.

Those of you who have known us for some time will be well aware of the technical and organisational evolution that distinguishes our company.

Our range of products has been extended and upgraded:

series TA, angle heads

series MO, spindle speeders

series HT, revolver turret heads

series VH, variable centre distance multispindle heads

series TSI-TSX, gear chamfering heads

series T, universal joint heads

*and where standard products are not enough, we can also offer a range of special products series **MT, TC, TC3, TFS** purposely designed and customised for various types of applications.*

Our mission involves a declaration of intent: creativity and technical advice at the service of customers to enable them to upgrade their output and their before and after-sales service reliability through prompt assistance and increasingly more punctual delivery.

Allow us to take this opportunity to thank all those customers who have chosen O.M.G. products, thereby contributing to their evolution; a warm welcome too to those who turn with confidence to O.M.G., a company that caters for individual requirements and is involved in a range of different manufacturing activities.

A short history.

O.M.G. was established in the 1960s as a small workshop specialised in designing and manufacturing multispindle heads. At that time, production centred on three products: tapping spindles, adjustable joint multispindle heads and variable centre distance multispindle heads.

Later on, in line with the evolution of the mechanical engineering industry, O.M.G. expanded and developed, taking part in the diffusion of new products with innovative and cutting-edge proposals for this research and production sector. The cutting-edge technologies employed in the manufacturing processes and the use of new computerised methods resulted in the O.M.G. brand name and image becoming widely known to small and large companies alike, an image sustained by a long series of advertising campaigns.

**Thank you for your attention,
O.M.G. srl.**



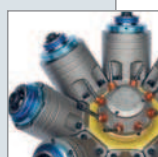
INDICE INDEX



Serie TA (Teste ad angolo - *Angle heads*) 1



Serie MO (Moltiplicatori di giri - *Spindle speeders*) 2



Serie HT (Torrette a revolver - *Turret heads*) 3



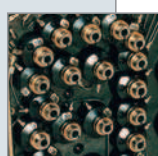
Serie VH (Teste multiple ad assi variabili - *Variable axis heads*) 4



Serie TSI/TSX (Teste di fresatura - *Twin spindle milling heads*) 5



Serie T (Teste multiple a giunti universali - *Adjustable joint multispindle heads*) 6



Serie MT-TC-TC3 (Teste multiple ad assi fissi - *Fixed multispindle heads*) 7



Accessori - Accessories 8



Appendice tecnica - Technical supplement 9

TA

MO

HT

VH

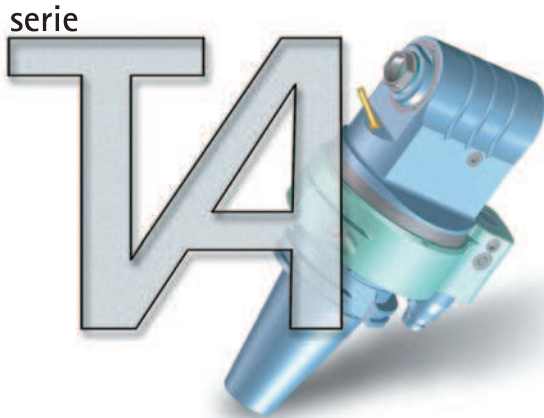
TSI/TSX

T

MT-TC-TC3

Accessori
Accessories

Appendice tecnica
Technical supplement



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

teste ad angolo angle heads

Le nuove teste ad angolo serie **TA** della O.M.G. sono state realizzate per eseguire quelle lavorazioni che con le macchine utensili orizzontali o verticali non si possono risolvere se non con ulteriori piazzamenti del pezzo; le teste ad angolo perciò consentono una riduzione di tempi e costi nelle lavorazioni meccaniche.

La O.M.G. presenta una gamma rinnovata e ampliata di teste ad angolo, così suddivise:

Serie TA monomandrino, dove l'angolo è di 90°

Serie TA... 2 a due mandrini contrapposti

Serie TA... D monomandrino con passaggio refrigerante per il centro

Serie TAO, monomandrino offset specifica per operazione di fresatura

Serie TAO... D, con liquido refrigerante ad alta pressione passante per il centro utensile

Serie TAV, l'inclinazione del mandrino è regolabile da +90° a -90°

Serie TAF, l'inclinazione del mandrino viene eseguita su richiesta del cliente

Teste speciali realizzate su specifiche richieste del cliente.

Le teste ad angolo O.M.G. possono venire applicate su macchine utensili tradizionali, centri di lavoro con cambio automatico dell'utensile, centri di tornitura con torretta motorizzata. Il cinematismo trattato termicamente, i cuscinetti di precisione utilizzati e le coppie coniche Gleason, conferiscono a tutte le teste un'ottima rigidità e precisione nelle lavorazioni "a sbalzo" che queste teste eseguono.

Il sistema antirotante di nuova concezione aumenta la rigidità e la precisione di posizionamento; quando alle teste ad angolo sono richieste prestazioni estreme si consiglia l'utilizzo del sistema **TRIBLOCK**.

Le teste ad angolo serie **TA** sono state studiate e definite avvalendosi di sistemi computerizzati all'avanguardia a supporto di conoscenze acquisite dalla O.M.G. in quarant'anni di esperienza nel settore.

Tutto questo ha permesso di fare scelte innovative nei materiali da costruzione, nei trattamenti termici e nelle lavorazioni meccaniche così da ottenere precisione, robustezza, rigidità e finitura al "top".

The new OMG TA series of angle heads has been manufactured in order to execute machining operations that horizontal or vertical machine tools are unable to perform except with further piece placements. Hence, the angle heads further reduce mechanical machining times and costs.

O.M.G. markets a renewed and extended range of angle heads as follows:

TA series 90° single-spindle

TA... 2 series two opposite spindles

TA... D series single-spindle with internal coolant through the tool

TAO series offset single spindle particularly on milling operation

TAO... D series with high pressure coolant through the spindle center

TAV series the angular position of the spindle is adjustable from +90° to -90°

TAF series the angular position of the spindle is made according to customer requirements.

Special heads made according to customer requirements.

The angle heads made by O.M.G. can be fitted to traditional machine tools, machining centres with automatic tool change and lathe centres with motorised turrets. The heat-treated kinematic mechanism, the precision bearings and the Gleason bevel gears, provide all heads with excellent strength and precision in "cantilever" machining operations.

*The new antirotation system increases strength and positioning precision; when extreme angle head performances are required, we suggest using the **Triblock** system.*

The TA series of angle heads has been studied and defined by advanced computerised systems as a support to OMG's 40 years' experience in the sector. All this has resulted in innovative solutions being achieved in terms of building materials, heat treatments and machining operations, in order to obtain precision, strength, reliability and excellent finishes.

TA04P	1-2
TA06P	1-3
TA07P	1-4
TA07PL	1-5
TA10P	1-6
TA10PL	1-7
TA13P	1-8
TA16P	1-9
TA20P	1-10
TA20.30	1-11
TA26P	1-12
TA26.40	1-13
TA07.2P	1-14
TA10.2P	1-15
TA13.2P	1-16
TA16.2P	1-17
TA20.2P	1-18
TA26.2P	1-19
TA07.PD	1-20
TA10.PD	1-21
TA13.PD	1-22
TA16.PD	1-23
TA20.PD	1-24
TA26.PD	1-25
TAO13... ..	1-26
TAO20... ..	1-27
TAO13... D	1-28
TAO20... D	1-29
TAV10.P	1-30
TAV13.P	1-31
TAV20.P	1-32
TAV50.T	1-33
TAF10.P	1-34
TAF13.P	1-35
TAF20.P	1-36
TA13PT	1-38
TA16PT	1-39
TA20...T	1-40
TA26...T	1-41
TA50.T	1-42
TA13P.VDI	1-44
TA16P.VDI	1-45
TAV10P.VDI	1-46
TAV13P.VDI	1-47
Antirotante/Torque arm	1-48
Antirotante Triblock/Triblock torque arm	1-50
Esecuzioni speciali/Special executions	1-52

Accessori/Accessories 8-1

TA

MO

HT

VH

TSI/TSX

T

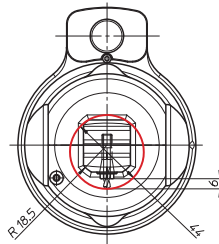
MT-TC-TC3

Accessori
AccessoriesAppendice tecnica
Technical supplement

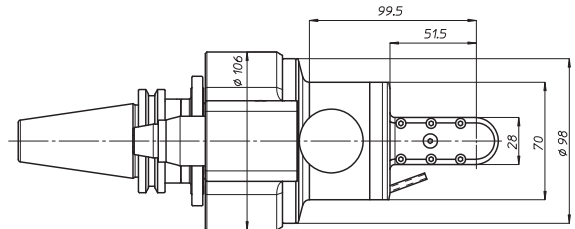
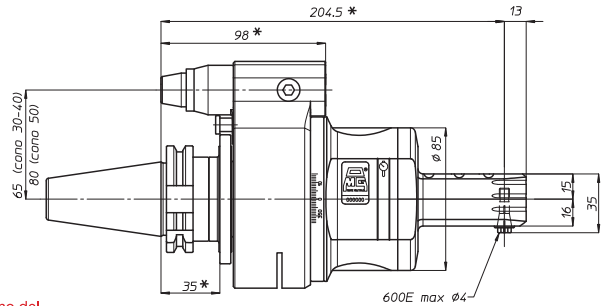
testa ad angolo - angle head

TA04P

TA04P-DIN69871.A30
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 TA04P-DIN69871.A45
 TA04P-DIN69871.A50
 TA04P-ANSI B5.50 CAT40
 TA04P-ANSI B5.50 CAT50
 TA04P-MAS403.BT40
 TA04P-MAS403.BT50

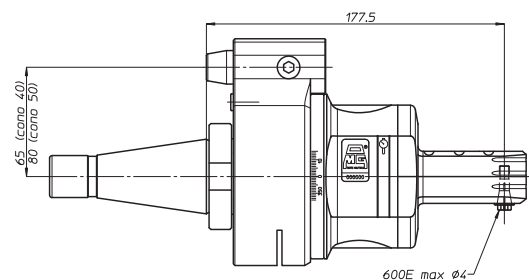
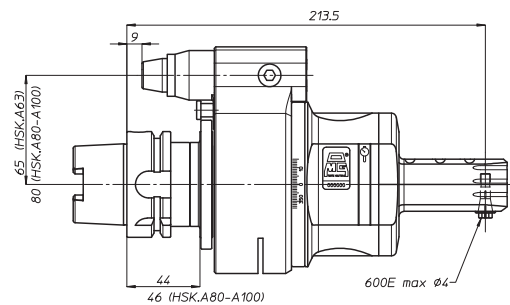


Diametro minimo del
foro in cui entra la testa



* Con cono BT50 aumentate le quote di 8 mm
 Increase the quote by 8 mm when using BT50 shank

TA04P-DIN69893.HSK.A63
 TA04P-DIN69893.HSK.A80
 TA04P-DIN69893.HSK.A100



TA04P-DIN2080.40
 TA04P-DIN2080.50
 TA04P-ANSI B5.18 NMTB40
 TA04P-ANSI B5.18 NMTB50



peso/weight



5,5 kg



7,5 kg

rotazione/rotation

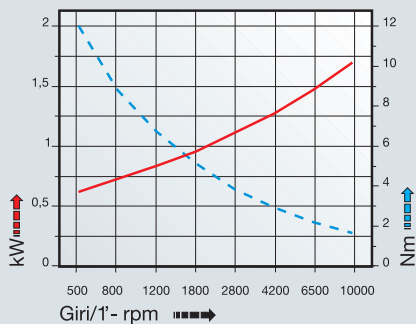


input



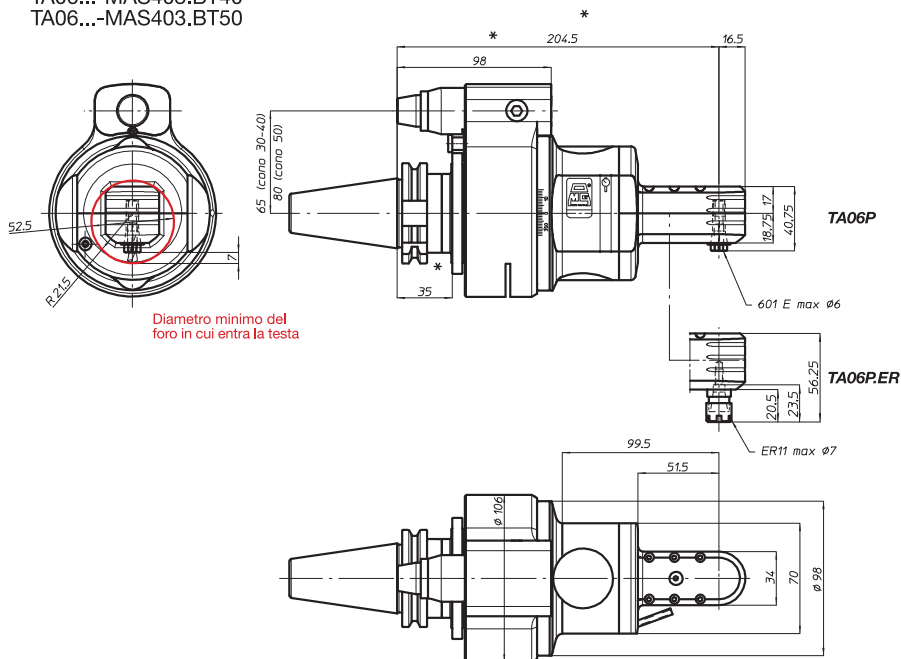
output

prestazioni
performances TA04P



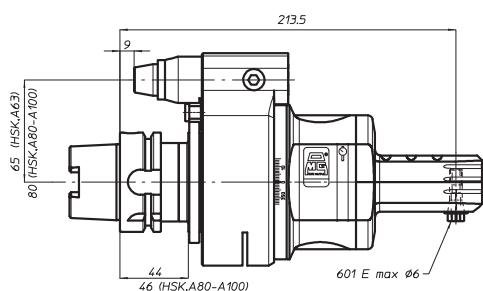
TA06P

- TA06...-DIN69871.A30
- TA06...-DIN69871.A40
- TA06...-DIN69871.A45
- TA06...-DIN69871.A50
- TA06...-ANSI B5.50 CAT40
- TA06...-ANSI B5.50 CAT50
- TA06...-MAS403.BT40
- TA06...-MAS403.BT50

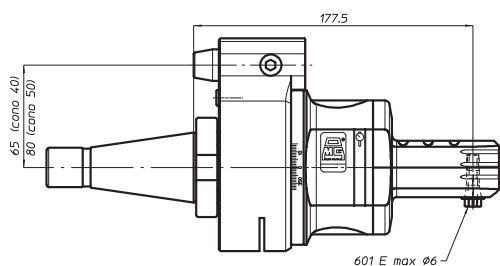


* Con cono BT50 aumentate le quote di 8 mm
Increase the quote by 8 mm when using BT50 shank

- TA06...-DIN69893.HSK.A63
- TA06...-DIN69893.HSK.A80
- TA06...-DIN69893.HSK.A100



- TA06...-DIN2080.40
- TA06...-DIN2080.50
- TA06...-ANSI B5.18 NMTB40
- TA06...-ANSI B5.18 NMTB50



peso/weight



6 kg



8,3 kg

rotazione/rotation

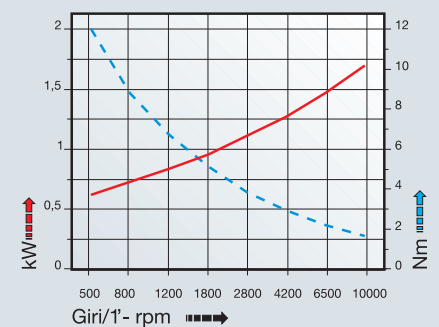


input



output

prestazioni performances TA06P



TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

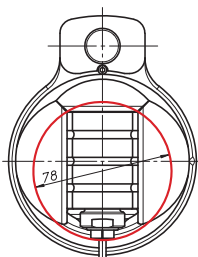
Accessori
Accessories

Appendice tecnica
Technical supplement

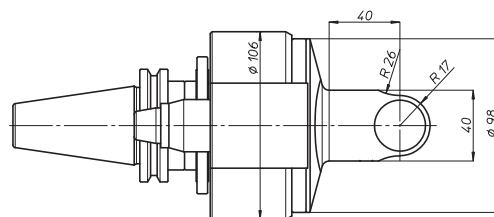
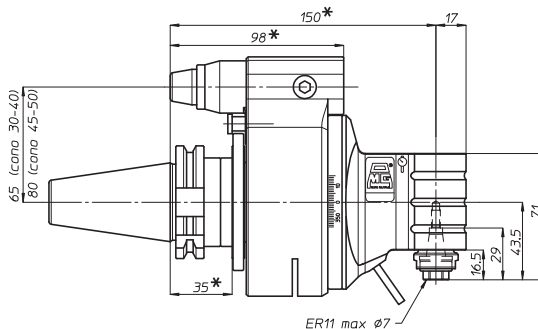
TA07P



- TA07P-DIN69871.A30
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- TA07P-DIN69871.A45
- TA07P-DIN69871.A50
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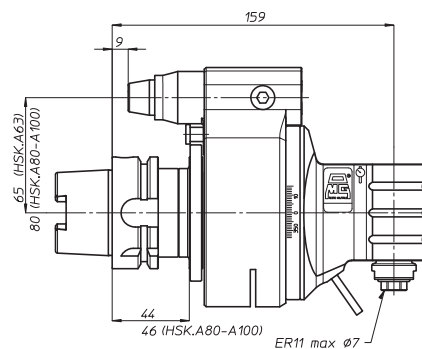


Diametro minimo del foro in cui entra la testa

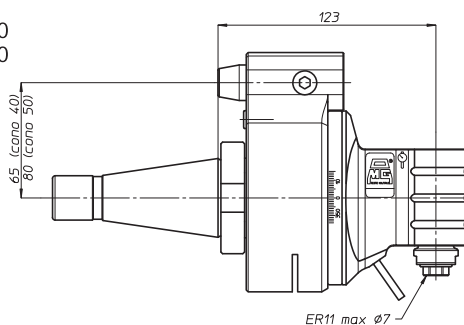


* Con cono BT50 aumentate le quote di 8 mm
Increase the quote by 8 mm when using BT50 shank

- TA07P-DIN69893.HSK.A63
- TA07P-DIN69893.HSK.A80
- TA07P-DIN69893.HSK.A100



- TA07P-DIN2080.40
- TA07P-DIN2080.50
- TA07P-ANSI B5.18 NMTB40
- TA07P-ANSI B5.18 NMTB50



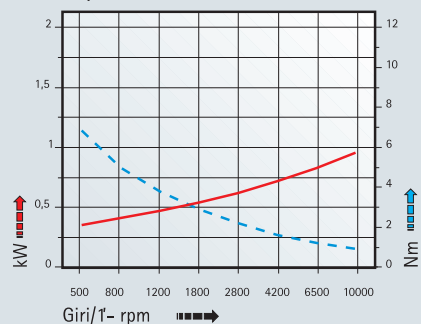
peso/weight



rotazione/rotation



prestazioni performances **TA07P**



TA

MO

HT

VH

TSI/TSX

T

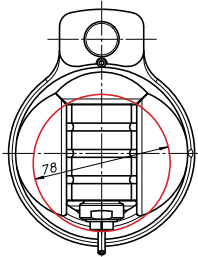
MT-TC-TC3

Accessori
Accessories

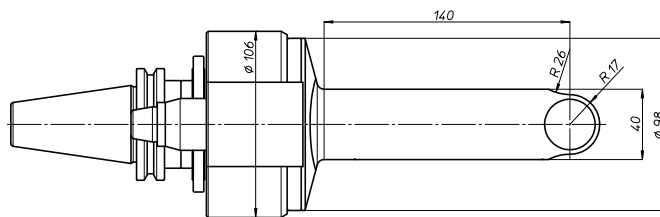
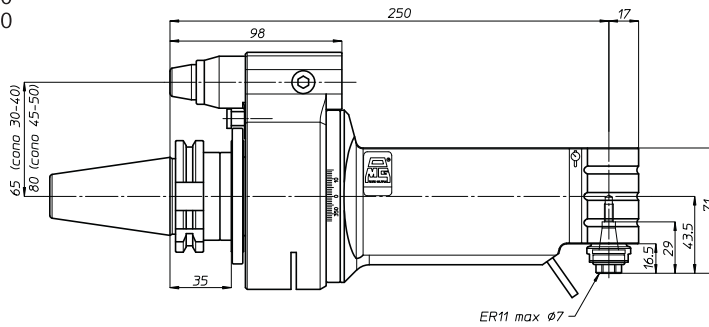
Appendice tecnica
Technical supplement

TA07P.L

- TA07P.L-DIN69871.A30
- TA07P.L-DIN69871.A40
- TA07P.L-DIN69871.A45
- TA07P.L-DIN69871.A50
- TA07P.L-ANSI B5.50 CAT40
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- TA07P.L-MAS403.BT40
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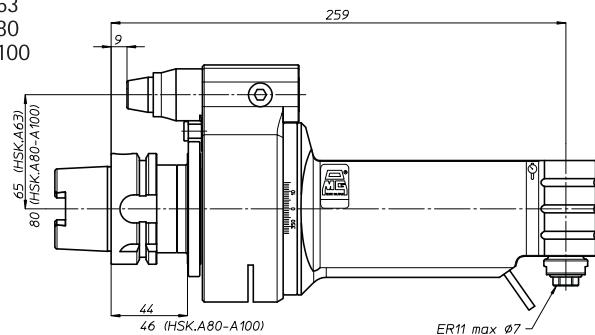


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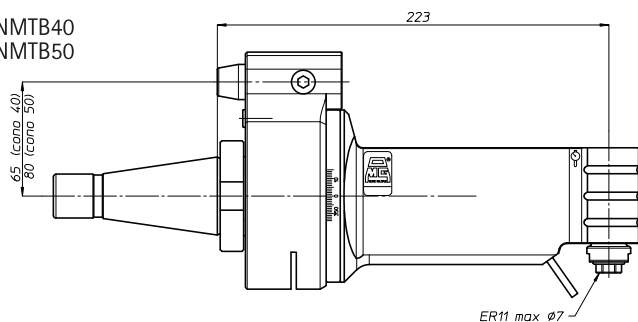


* Con cono BT50 aumentate le quote di 8 mm
Increase the quote by 8 mm when using BT50 shank

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- TA07P.L-DIN69893.HSK.A80
- TA07P.L-DIN69893.HSK.A100



- TA07P.L-DIN2080.40
- TA07P.L-DIN2080.50
- TA07P.L-ANSI B5.18 NMTB40
- TA07P.L-ANSI B5.18 NMTB50



peso/weight



7,5 kg



9,5 kg

rotazione/rotation

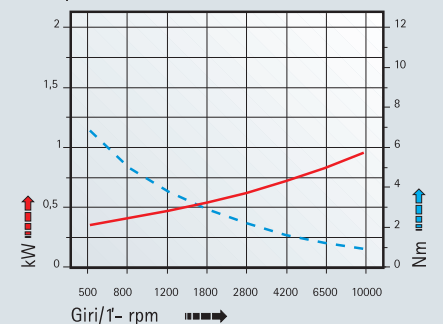


input



output

prestazioni performances TA07P.L



TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
Accessories

Appendice tecnica
Technical supplement

TA

MO

HT

VH

TSI/TSX

T

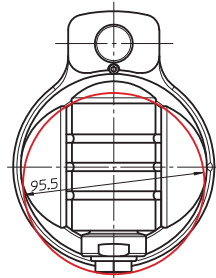
MT-TC-TC3

Accessori
AccessoriesAppendice tecnica
Technical supplement

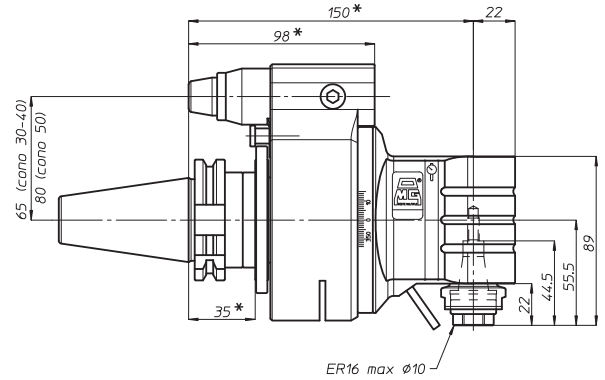
testa ad angolo - angle head

TA10P

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 TA10P-DIN69871.A45
 TA10P-DIN69871.A50
 TA10P-ANSI B5.50 CAT40
 TA10P-ANSI B5.50 CAT50
 TA10P-MAS403.BT40
 TA10P-MAS403.BT50



Diametro minimo del foro
in cui entra la testa



peso/weight



5,3 kg



7,5 kg

rotazione/rotation

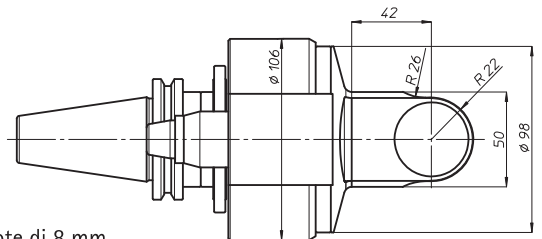


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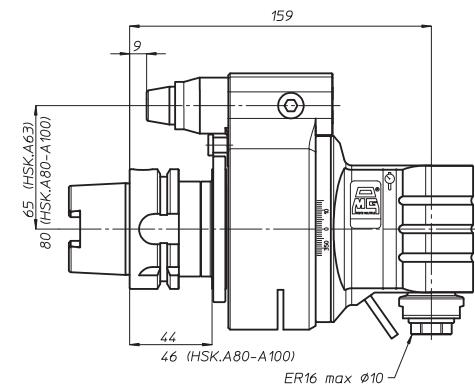


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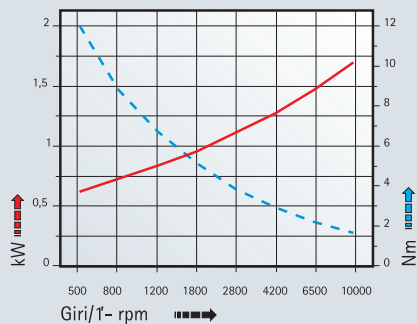
* Con cono BT50 aumentate le quote di 8 mm
 Increase the quote by 8 mm when using BT50 shank



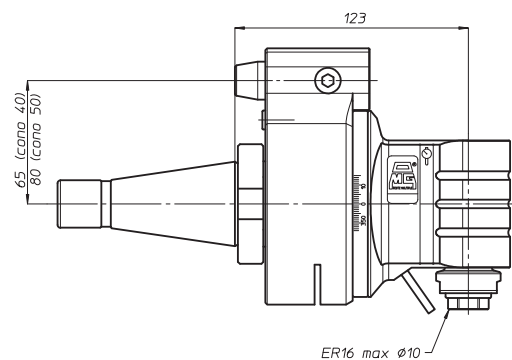
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 TA10P-DIN69893.HSK.A100



prestazioni
performances **TA10P**

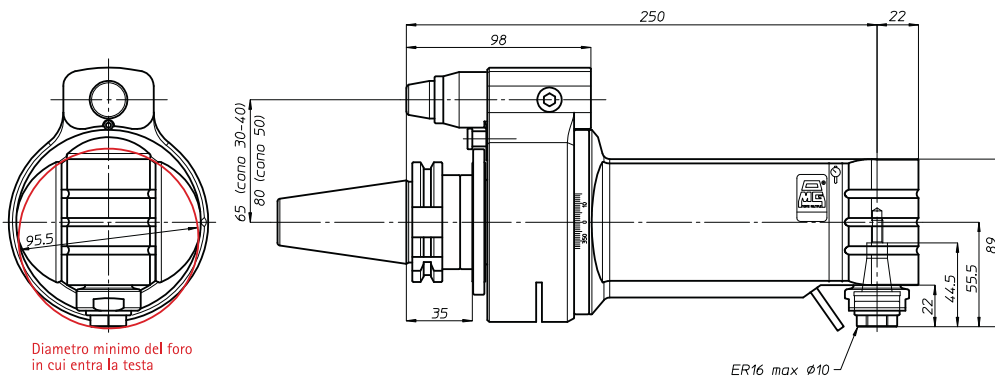


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 TA10P-ANSI B5.18 NMTB50



TA10P.L

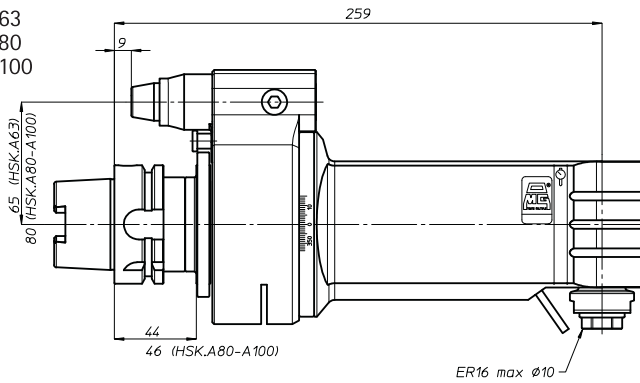
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- TA10P.L-DIN69871.A50
- TA10P.L-ANSI B5.50 CAT40
- TA10P.L-ANSI B5.50 CAT50
- TA10P.L-MAS403.BT40
- TA10P.L-MAS403.BT50



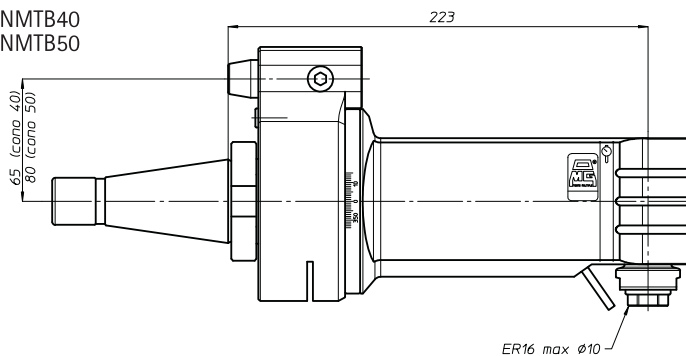
Diametro minimo del foro in cui entra la testa

* Con cono BT50 aumentate le quote di 8 mm
Increase the quote by 8 mm when using BT50 shank

- TA10P.L-DIN69893.HSK.A63
- TA10P.L-DIN69893.HSK.A80
- TA10P.L-DIN69893.HSK.A100



- TA10P.L-DIN2080.40
- TA10P.L-DIN2080.50
- TA10P.L-ANSI B5.18 NMTB40
- TA10P.L-ANSI B5.18 NMTB50



peso/weight



8,3 kg



10,5 kg

rotazione/rotation

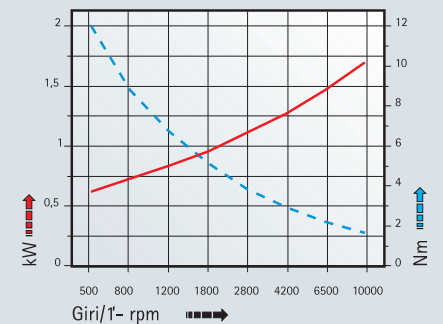


input



output

prestazioni performances TA10P.L

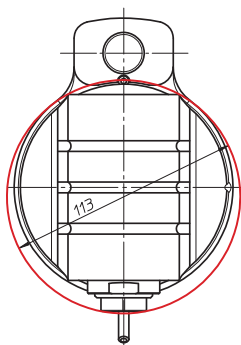


TA
MO
HT
VH
TSI/TSX
T
MT-TC-TC3
Accessori
Accessories
Appendice tecnica
Technical supplement

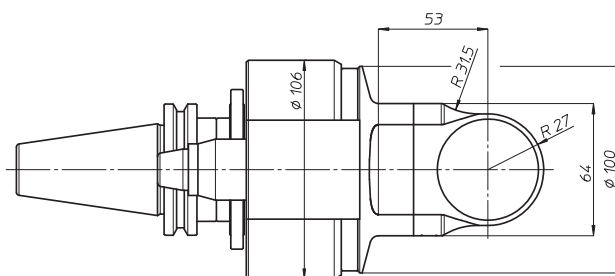
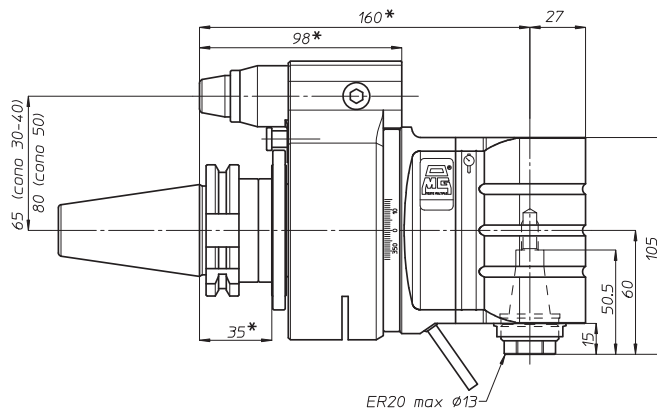
TA13P



- TA13P-DIN69871.A40
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- TA13P-DIN69871.A50
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- TA13P-ANSI B5.50 CAT50
- TA13P-MAS403.BT40
- TA13P-MAS403.BT50

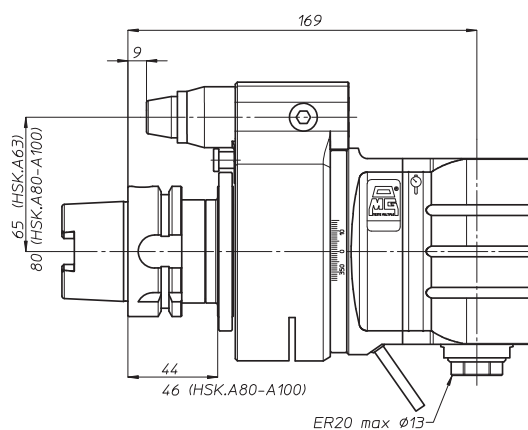


Diametro minimo del foro in cui entra la testa

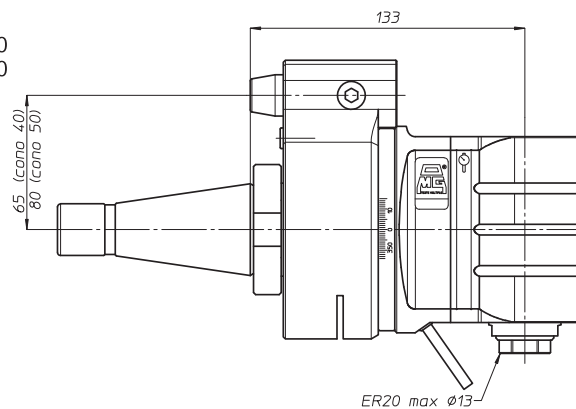


* Con cono BT50 aumentate le quote di 8 mm
Increase the quote by 8 mm when using BT50 shank

- TA13P-DIN69893.HSK.A63
- TA13P-DIN69893.HSK.A80
- TA13P-DIN69893.HSK.A100



- TA13P-DIN2080.40
- TA13P-DIN2080.50
- TA13P-ANSI B5.18 NMTB40
- TA13P-ANSI B5.18 NMTB50



peso/weight



6,5 kg



9 kg

rotazione/rotation

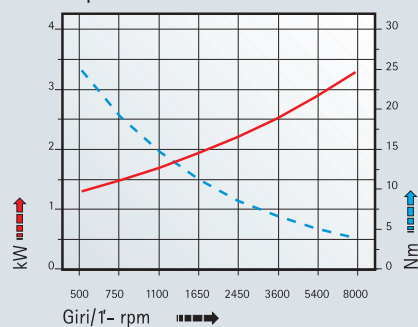


input



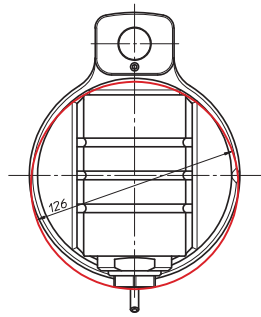
output

prestazioni performances **TA13P**

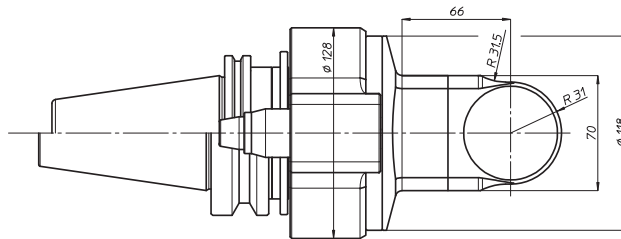
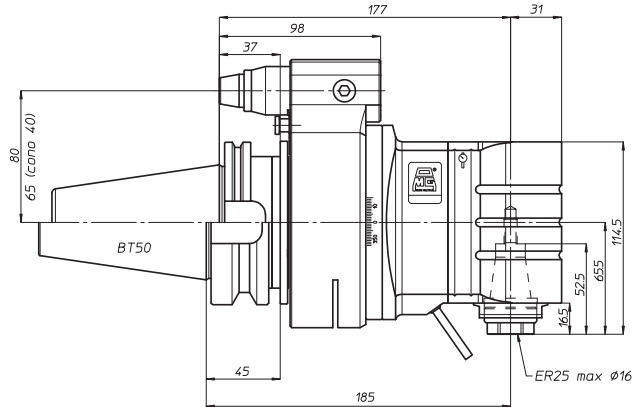


TA16P

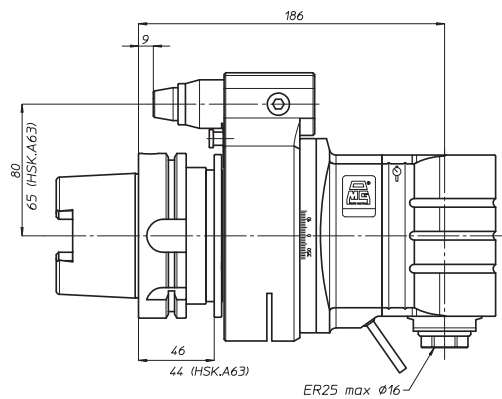
TA16P-DIN69871.A40
 TA16P-DIN69871.A45
 TA16P-DIN69871.A50
 TA16P-ANSI B5.50 CAT40
 TA16P-ANSI B5.50 CAT50
 TA16P-MAS403.BT40
 TA16P-MAS403.BT50



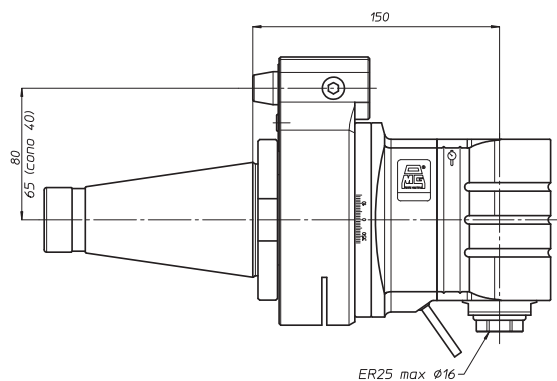
Diametro minimo del foro in cui entra la testa



TA16P-DIN69893.HSK.A63
 TA16P-DIN69893.HSK.A80
 TA16P-DIN69893.HSK.A100



TA16P-DIN2080.40
 TA16P-DIN2080.50
 TA16P-ANSI B5.18 NMTB40
 TA16P-ANSI B5.18 NMTB50



peso/weight



7,7 kg



11,7 kg

rotazione/rotation

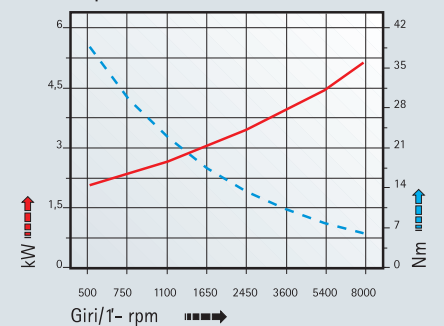


input



output

prestazioni performances TA16P



TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
Accessories

Appendice tecnica
Technical supplement

TA

MO

HT

VH

TSI/TSX

T

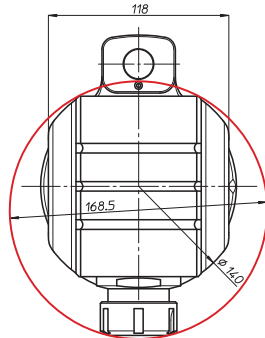
MT-TC-TC3

Accessori
AccessoriesAppendice tecnica
Technical supplement

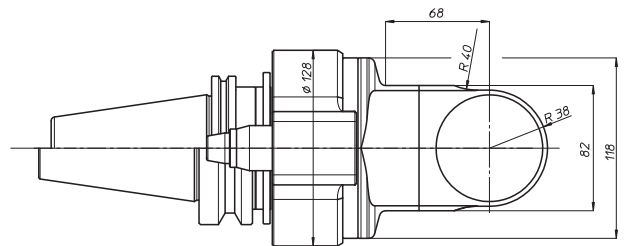
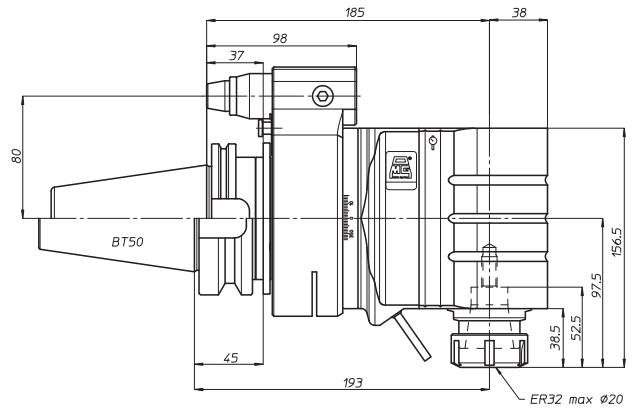
testa ad angolo - angle head

TA20P

TA20P-DIN69871.A45
 TA20P-DIN69871.A50
 TA20P-ANSI B5.50 CAT50
 TA20P-MAS403.BT50



Diametro minimo del foro
in cui entra la testa



peso/weight



14,5 kg

rotazione/rotation

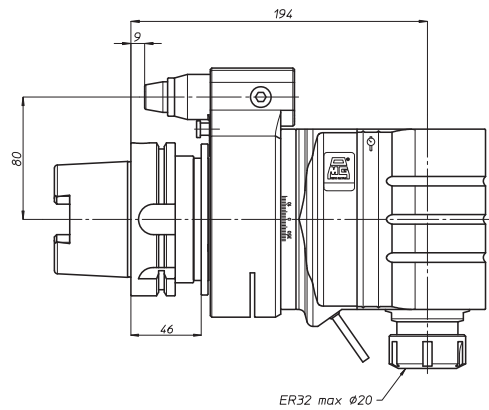


input

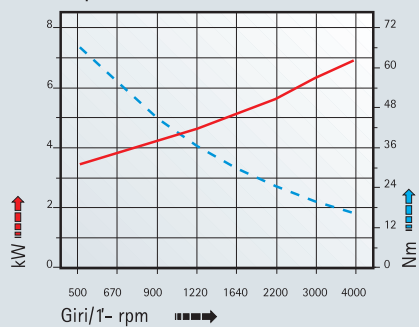


output

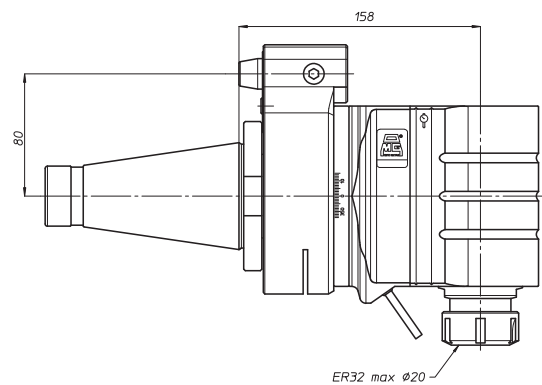
TA20P-DIN69893.HSK.A80
 TA20P-DIN69893.HSK.A100



prestazioni
performances **TA20P**

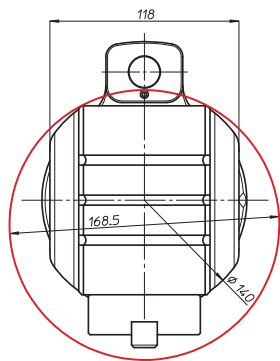


TA20P-DIN2080.50
 TA20P-ANSI B5.18 NMTB50

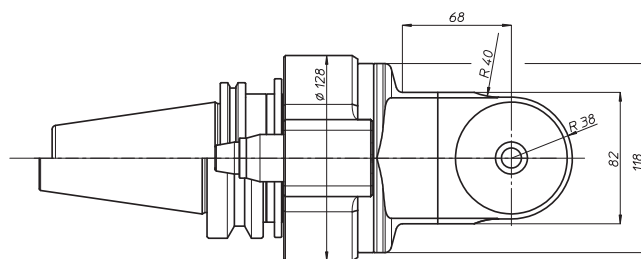
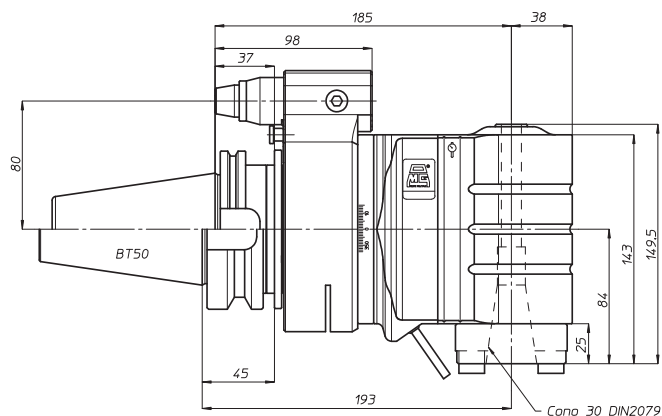


TA20.30

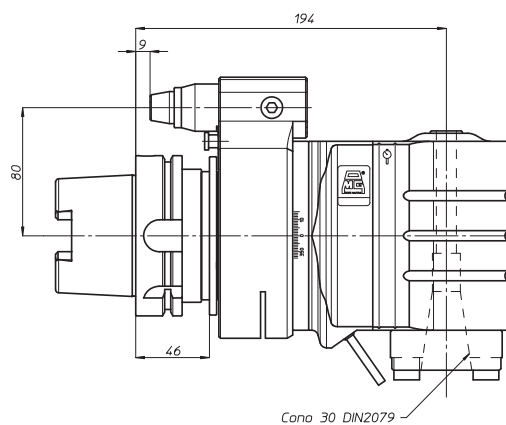
TA20.30-DIN69871.A45
 TA20.30-DIN69871.A50
 TA20.30-ANSI B5.50 CAT50
 TA20.30-MAS403.BT50



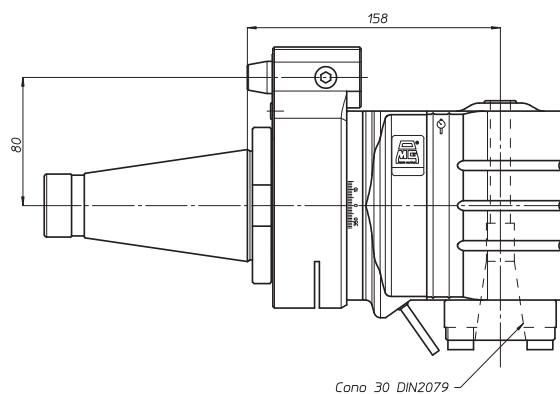
Diametro minimo del foro in cui entra la testa



TA20.30-DIN69893.HSK.A80
 TA20.30-DIN69893.HSK.A100



TA20.30-DIN2080.50
 TA20.30-ANSI B5.18 NMTB50



ø 20



M14



1-1



3500

peso/weight



14,7 kg

rotazione/rotation

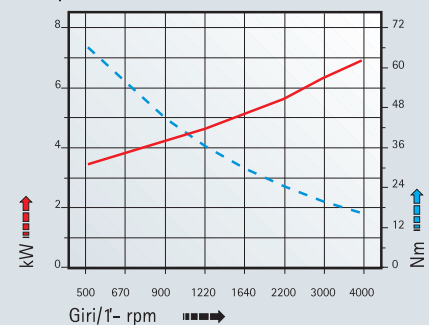


input



output

prestazioni performances **TA20.30**



TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
Accessories

Appendice tecnica
Technical supplement

TA

MO

HT

VH

TSI/TSX

T

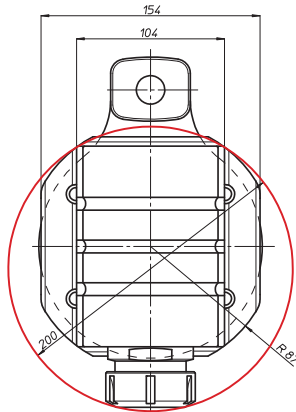
MT-TC-TC3

Accessori
AccessoriesAppendice tecnica
Technical supplement

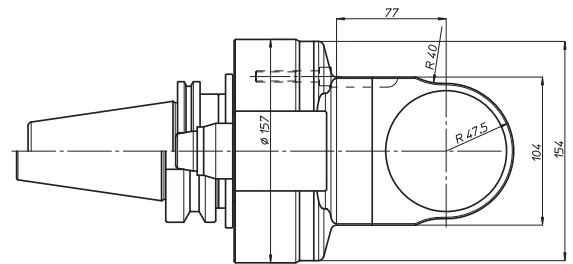
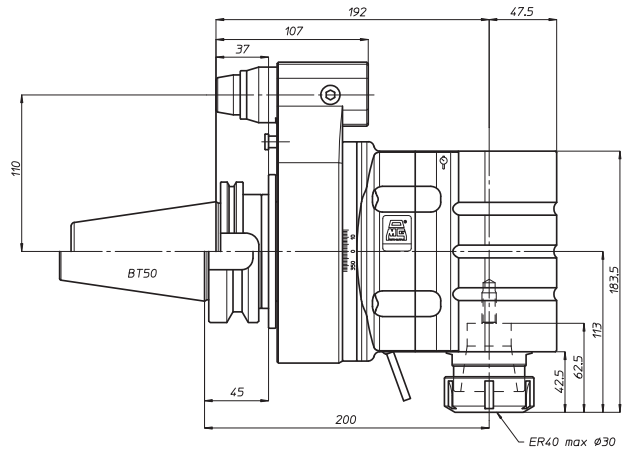
testa ad angolo - angle head

TA26P

TA26P-DIN69871.A50
TA26P-ANSI B5.50 CAT50
TA26P-MAS403.BT50



Diametro minimo del foro
in cui entra la testa



peso/weight



22 kg

rotazione/rotation

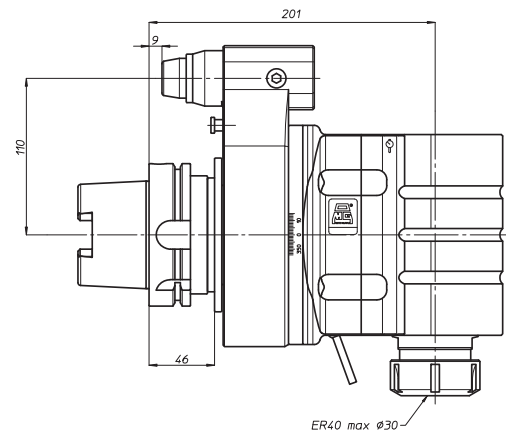
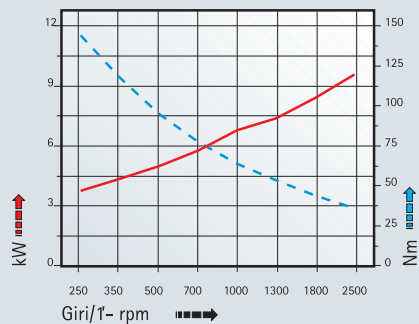


input

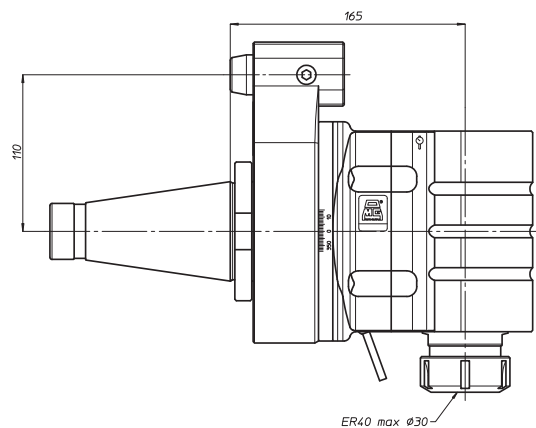


output

TA26P-DIN69893.HSK.A100

prestazioni
performances **TA26P**

TA26P-DIN2080.50
TA26P-ANSI B5.18 NMTB50

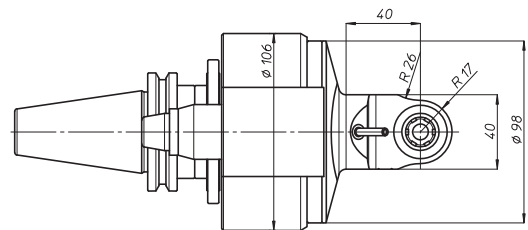
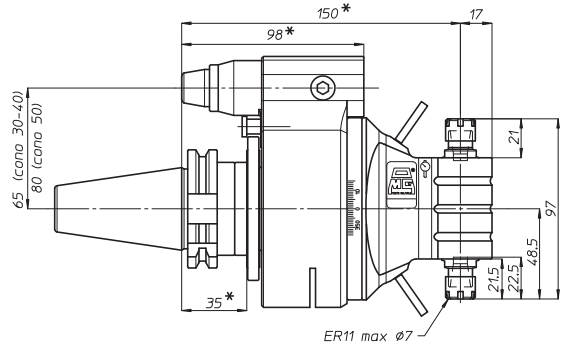
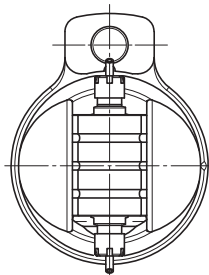


testa ad angolo - angle head

TA07.2P

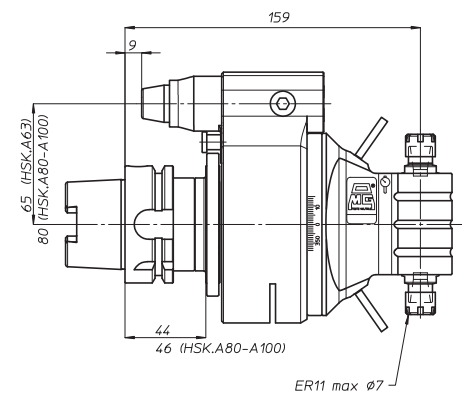


- TA07.2P-DIN69871.A30
- TA07.2P-DIN69871.A40
- TA07.2P-DIN69871.A45
- TA07.2P-DIN69871.A50
- TA07.2P-ANSI B5.50 CAT40
- TA07.2P-ANSI B5.50 CAT50
- TA07.2P-MAS403.BT40
- TA07.2P-MAS403.BT50

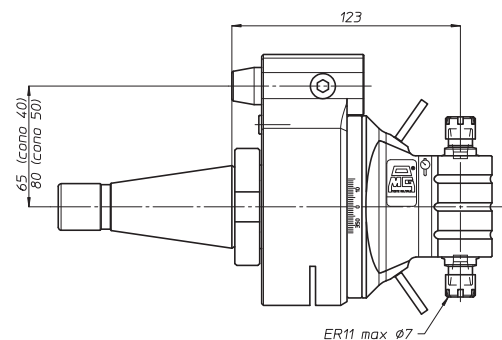


* Con cono BT50 aumentate le quote di 8 mm
Increase the quote by 8 mm when using BT50 shank

- TA07.2P-DIN69893.HSK.A63
- TA07.2P-DIN69893.HSK.A80
- TA07.2P-DIN69893.HSK.A100



- TA07.2P-DIN2080.40
- TA07.2P-DIN2080.50
- TA07.2P-ANSI B5.18 NMTB40
- TA07.2P-ANSI B5.18 NMTB50



peso/weight



5 kg



7 kg

rotazione/rotation

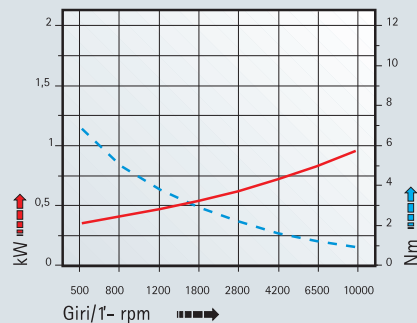


input



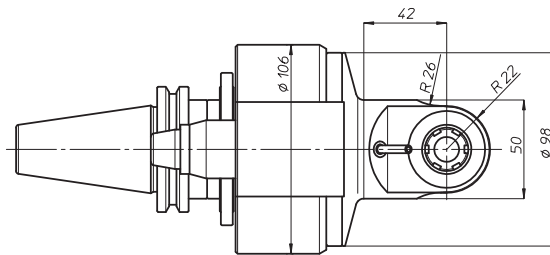
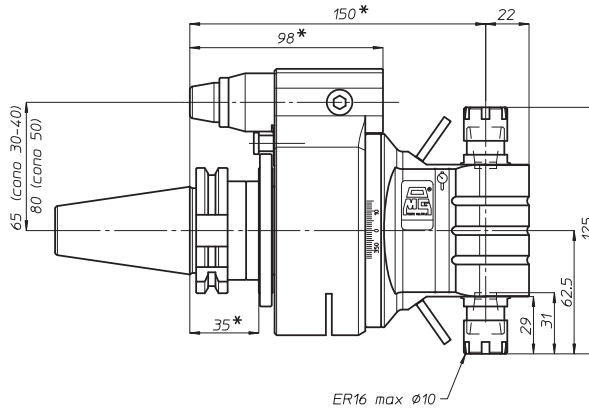
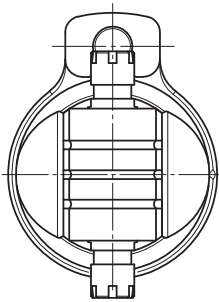
output

prestazioni performances **TA07.2P**



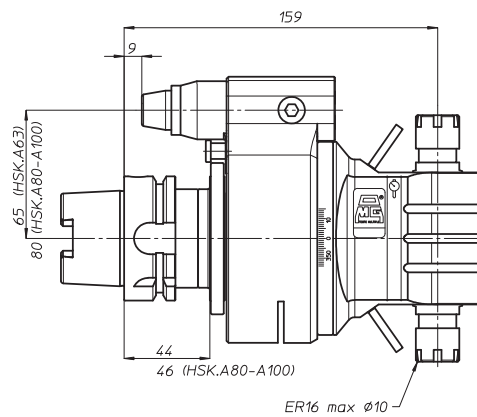
TA10.2P

TA10.2P-DIN69871.A30
 TA10.2P-DIN69871.A40
 TA10.2P-DIN69871.A45
 TA10.2P-DIN69871.A50
 TA10.2P-ANSI B5.50 CAT40
 TA10.2P-ANSI B5.50 CAT50
 TA10.2P-MAS403.BT40
 TA10.2P-MAS403.BT50

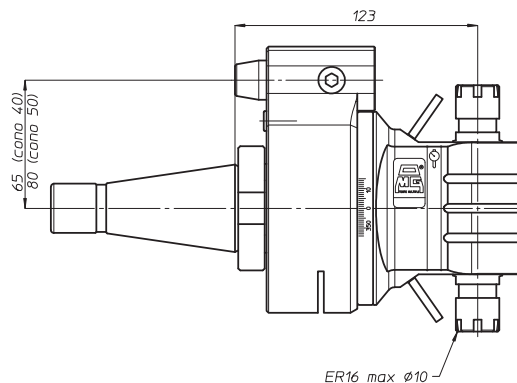


* Con cono BT50 aumentate le quote di 8 mm
 Increase the quote by 8 mm when using BT50 shank

TA10.2P-DIN69893.HSK.A63
 TA10.2P-DIN69893.HSK.A80
 TA10.2P-DIN69893.HSK.A100



TA10.2P-DIN2080.40
 TA10.2P-DIN2080.50
 TA10.2P-ANSI B5.18 NMTB40
 TA10.2P-ANSI B5.18 NMTB50



peso/weight



5,5 kg



7,5 kg

rotazione/rotation

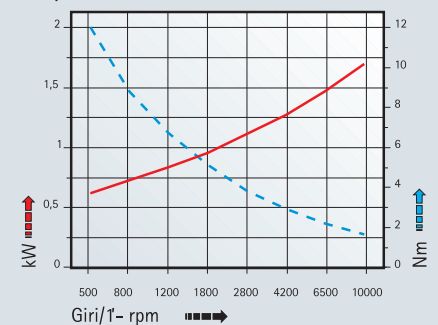


input



output

prestazioni performances **TA10.2P**



TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
Accessories

Appendice tecnica
Technical supplement

TA

MO

HT

VH

TSI/TSX

T

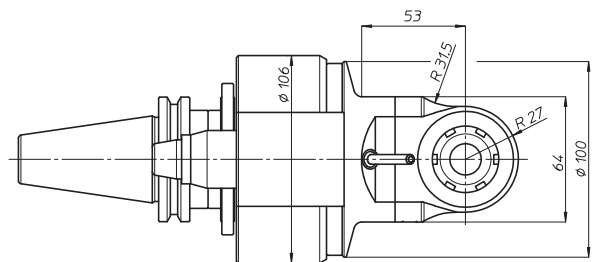
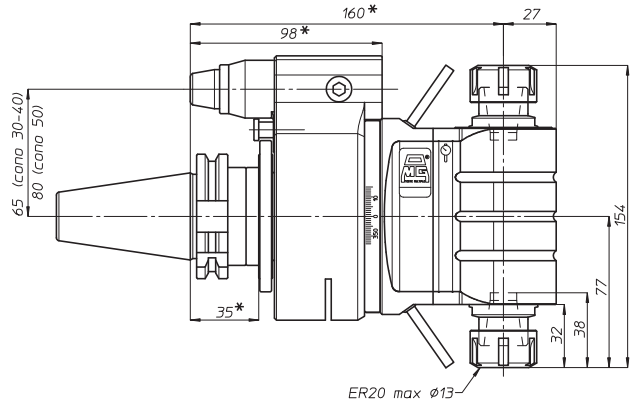
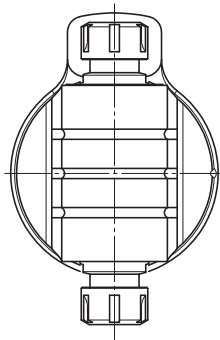
MT-TC-TC3

Accessori
AccessoriesAppendice tecnica
Technical supplement

testa ad angolo - angle head

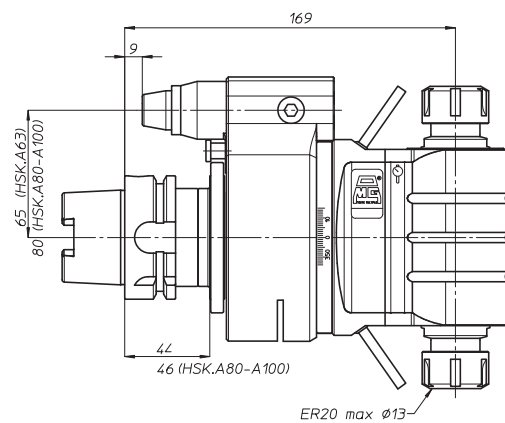
TA13.2P

TA13.2P-DIN69871.A40
 TA13.2P-DIN69871.A45
 TA13.2P-DIN69871.A50
 TA13.2P-ANSI B5.50 CAT40
 TA13.2P-ANSI B5.50 CAT50
 TA13.2P-MAS403.BT40
 TA13.2P-MAS403.BT50

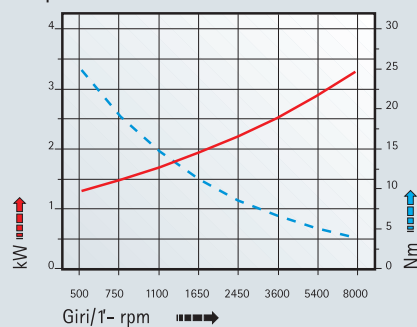


* Con cono BT50 aumentate le quote di 8 mm
 Increase the quote by 8 mm when using BT50 shank

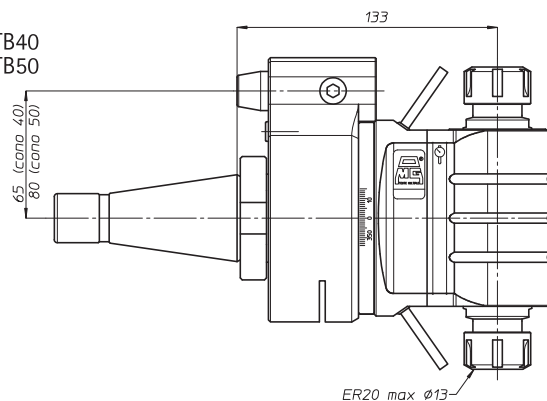
TA13.2P-DIN69893.HSK.A63
 TA13.2P-DIN69893.HSK.A80
 TA13.2P-DIN69893.HSK.A100



prestazioni
 performances **TA13.2P**

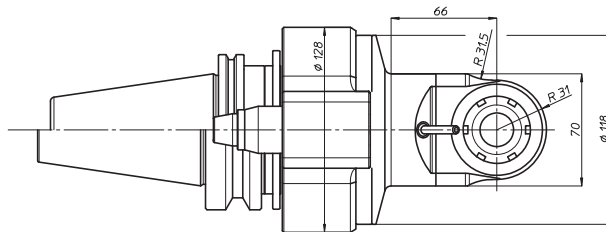
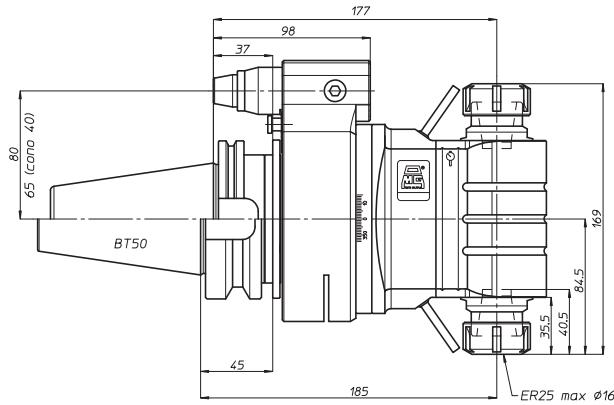
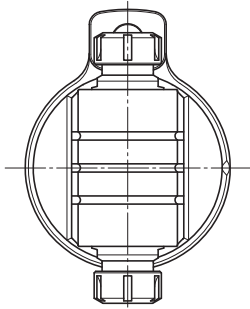


TA13.2P-DIN2080.40
 TA13.2P-DIN2080.50
 TA13.2P-ANSI B5.18 NMTB40
 TA13.2P-ANSI B5.18 NMTB50

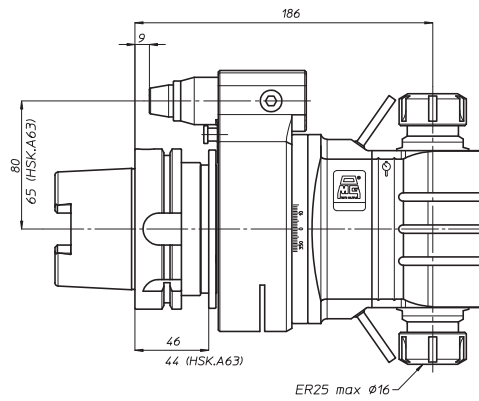


TA16.2P

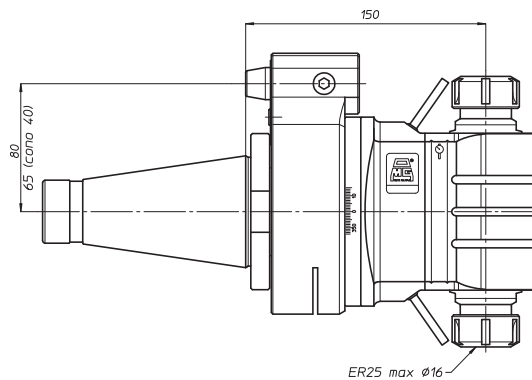
TA16.2P-DIN69871.A40
 TA16.2P-DIN69871.A45
 TA16.2P-DIN69871.A50
 TA16.2P-ANSI B5.50 CAT40
 TA16.2P-ANSI B5.50 CAT50
 TA16.2P-MAS403.BT40
 TA16.2P-MAS403.BT50



TA16.2P-DIN69893.HSK.A63
 TA16.2P-DIN69893.HSK.A80
 TA16.2P-DIN69893.HSK.A100



TA16.2P-DIN2080.40
 TA16.2P-DIN2080.50
 TA16.2P-ANSI B5.18 NMTB40
 TA16.2P-ANSI B5.18 NMTB50



peso/weight



7,7 kg



12,2 kg

rotazione/rotation

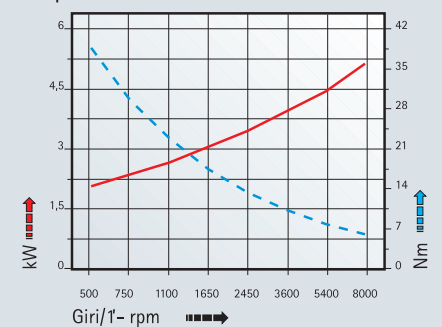


input



output

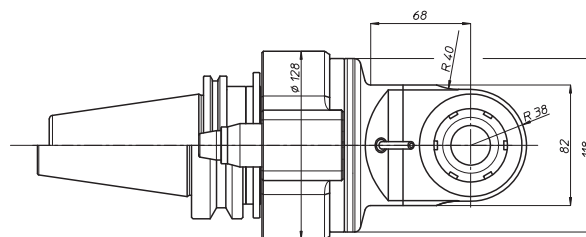
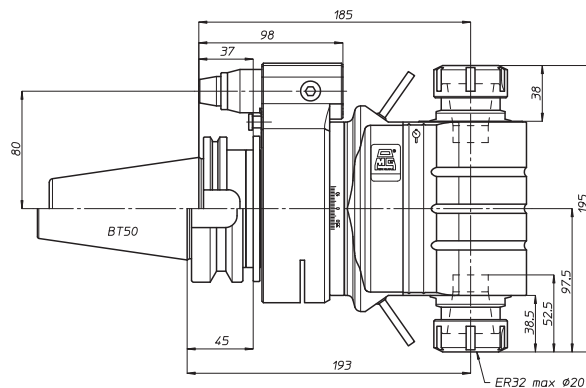
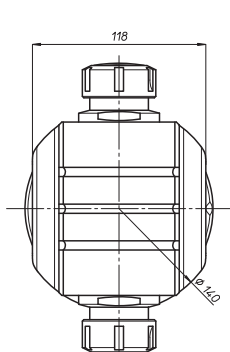
prestazioni performances **TA16.2P**



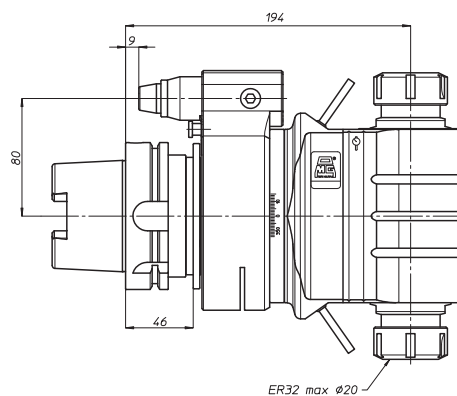
testa ad angolo - angle head

TA20.2P

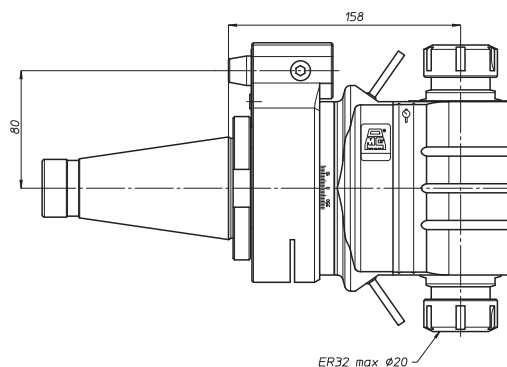
TA20.2P-DIN69871.A45
 TA20.2P-DIN69871.A50
 TA20.2P-ANSI B5.50 CAT50
 TA20.2P-MAS403.BT50



TA20.2P-DIN69893.HSK.A80
 TA20.2P-DIN69893.HSK.A100



TA20.2P-DIN2080.50
 TA20.2P-ANSI B5.18 NMTB50



peso/weight



15 kg

rotazione/rotation

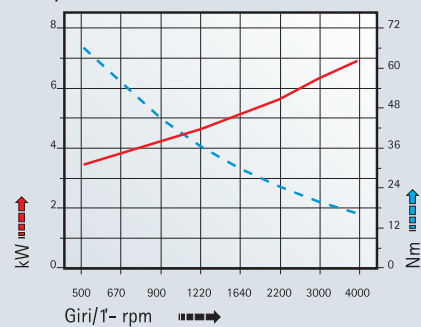


input



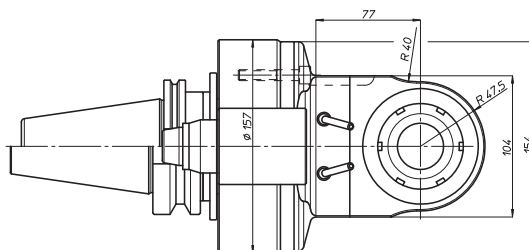
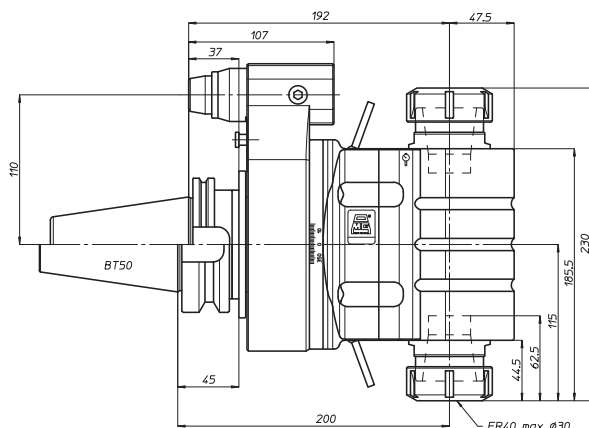
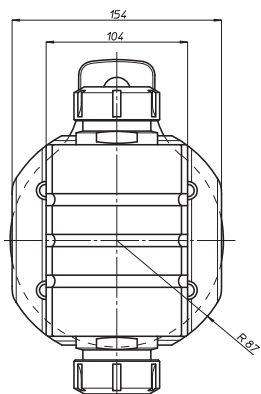
output

prestazioni performances **TA20.2P**

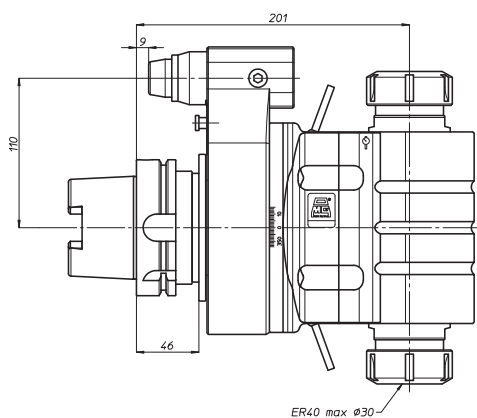


TA26.2P

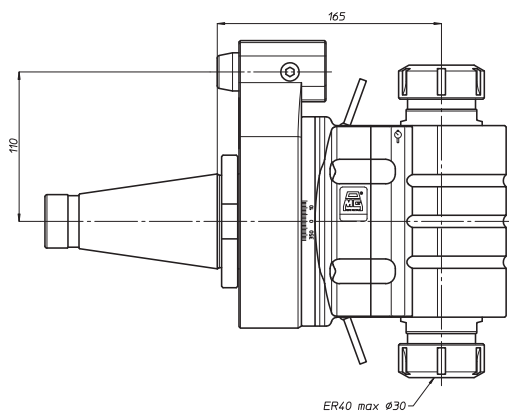
TA26.2P-DIN69871.A50
 TA26.2P-ANSI B5.50 CAT50
 TA26.2P-MAS403.BT50



TA26.2P-DIN69893.HSK.A100



TA26.2P-DIN2080.50
 TA26.2P-ANSI B5.18 NMTB50



peso/weight



22,5 kg

rotazione/rotation

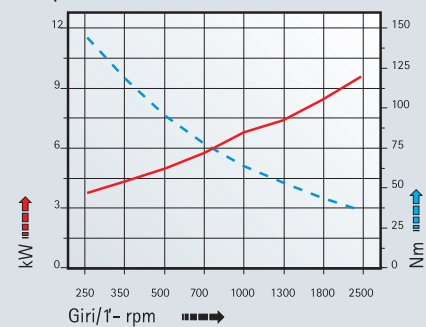


input



output

prestazioni performances **TA26.2P**



TA

MO

HT

VH

TSI/TSX

T

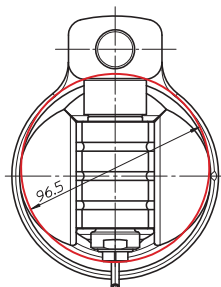
MT-TC-TC3

Accessori
Accessories

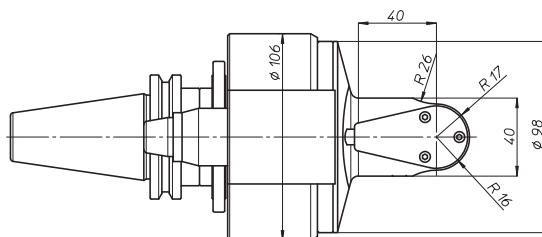
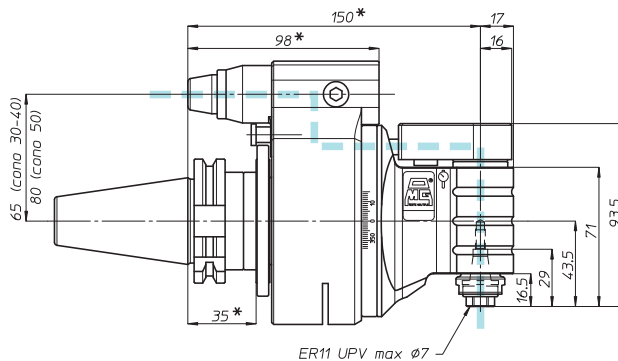
Appendice tecnica
Technical supplement

TA07.PD

- TA07PD-DIN69871.A30
- TA07PD-DIN69871.A40
- TA07PD-DIN69871.A45
- TA07PD-DIN69871.A50
- TA07PD-ANSI B5.50 CAT40
- TA07PD-ANSI B5.50 CAT50
- TA07PD-MAS403.BT40
- TA07PD-MAS403.BT50

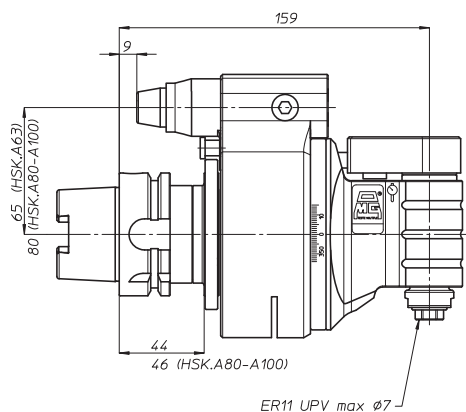


Diametro minimo del foro in cui entra la testa

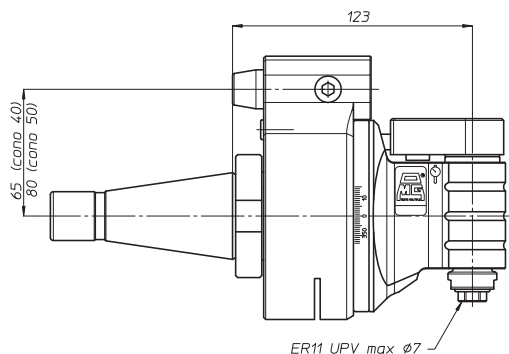


* Con cono BT50 aumentate le quote di 8 mm
Increase the quote by 8 mm when using BT50 shank

- TA07PD-DIN69893.HSK.A63
- TA07PD-DIN69893.HSK.A80
- TA07PD-DIN69893.HSK.A100



- TA07PD-DIN2080.40
- TA07PD-DIN2080.50
- TA07PD-ANSI B5.18 NMTB40
- TA07PD-ANSI B5.18 NMTB50



peso/weight



5 kg



7 kg

rotazione/rotation

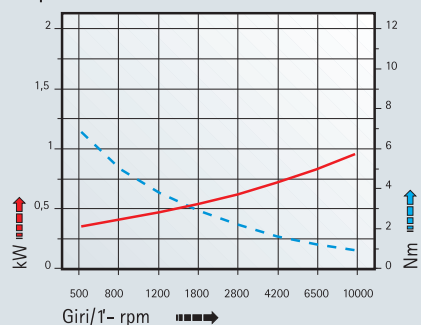


input



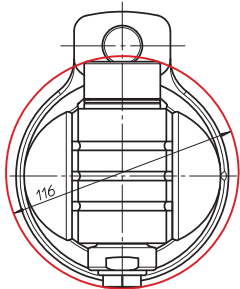
output

prestazioni performances **TA07.PD**

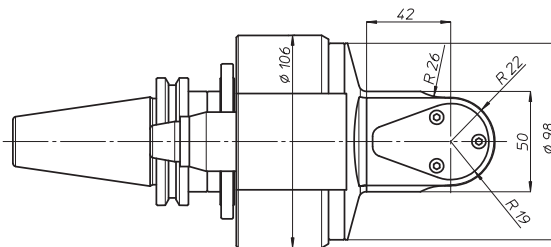
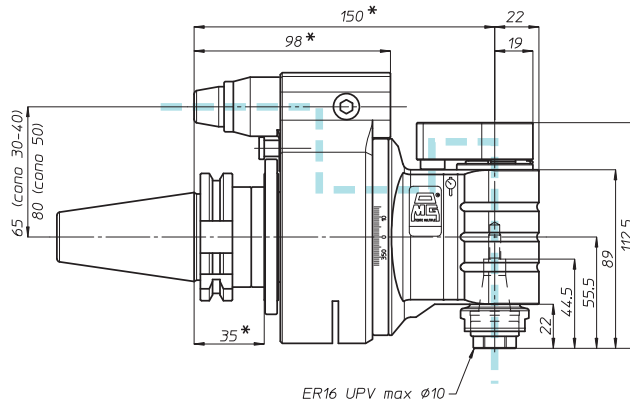


TA10.PD

TA10PD-DIN69871.A30
 TA10PD-DIN69871.A40
 TA10PD-DIN69871.A45
 TA10PD-DIN69871.A50
 TA10PD-ANSI B5.50 CAT40
 TA10PD-ANSI B5.50 CAT50
 TA10PD-MAS403.BT40
 TA10PD-MAS403.BT50

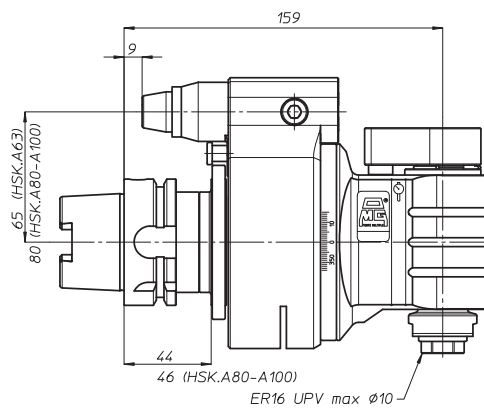


Diametro minimo del foro in cui entra la testa

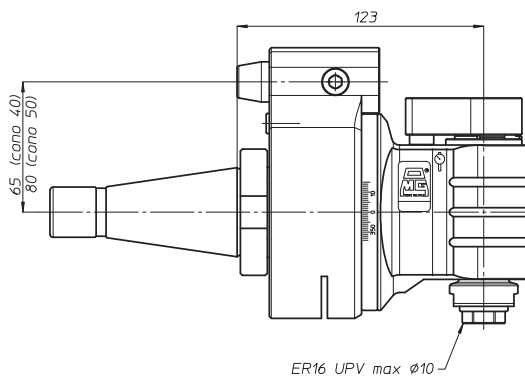


* Con cono BT50 aumentate le quote di 8 mm
 Increase the quote by 8 mm when using BT50 shank

TA10PD-DIN69893.HSK.A63
 TA10PD-DIN69893.HSK.A80
 TA10PD-DIN69893.HSK.A100



TA10PD-DIN2080.40
 TA10PD-DIN2080.50
 TA10PD-ANSI B5.18 NMTB40
 TA10PD-ANSI B5.18 NMTB50



peso/weight



5,5 kg



7,5 kg

rotazione/rotation

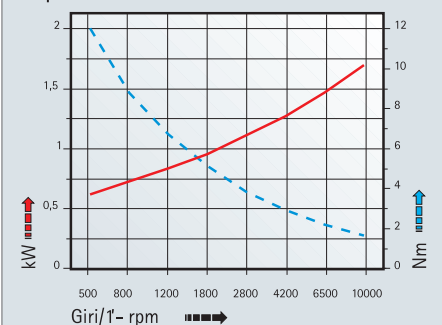


input



output

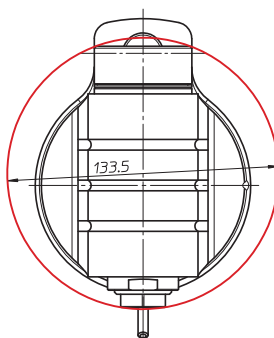
prestazioni performances TA10.PD



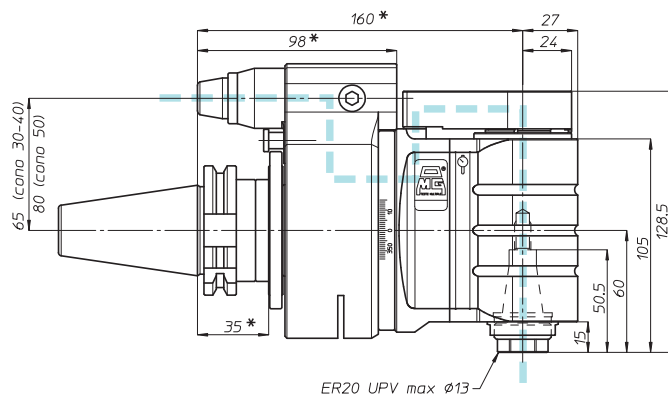
TA13.PD



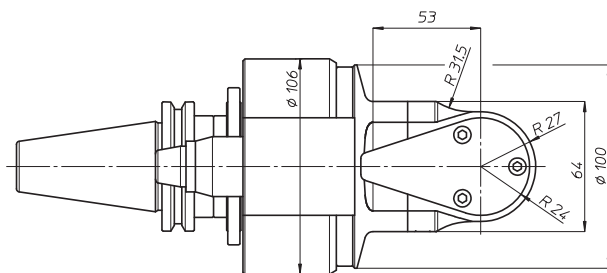
- TA13PD-DIN69871.A40
- TA13PD-DIN69871.A45
- TA13PD-DIN69871.A50
- TA13PD-ANSI B5.50 CAT40
- TA13PD-ANSI B5.50 CAT50
- TA13PD-MAS403.BT40
- TA13PD-MAS403.BT50



Diametro minimo del foro in cui entra la testa

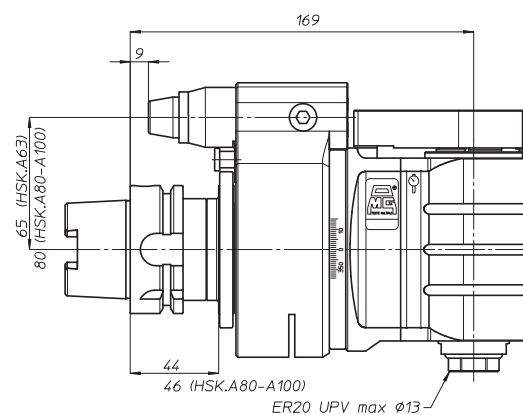


ER20 UPV max $\phi 13$



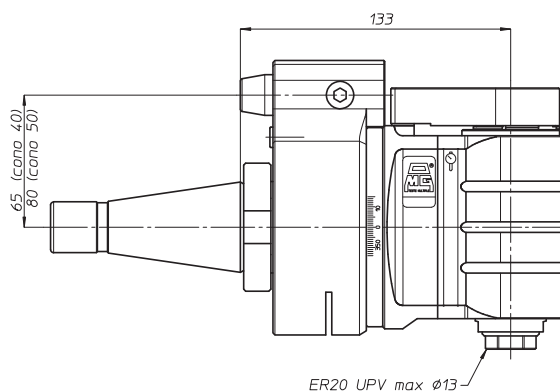
* Con cono BT50 aumentate le quote di 8 mm
Increase the quote by 8 mm when using BT50 shank

- TA13PD-DIN69893.HSK.A63
- TA13PD-DIN69893.HSK.A80
- TA13PD-DIN69893.HSK.A100



ER20 UPV max $\phi 13$

- TA13PD-DIN2080.40
- TA13PD-DIN2080.50
- TA13PD-ANSI B5.18 NMTB40
- TA13PD-ANSI B5.18 NMTB50



ER20 UPV max $\phi 13$



$\phi 13$

M10

1-1

8000



10 bar

peso/weight



6,5 kg



9 kg

rotazione/rotation

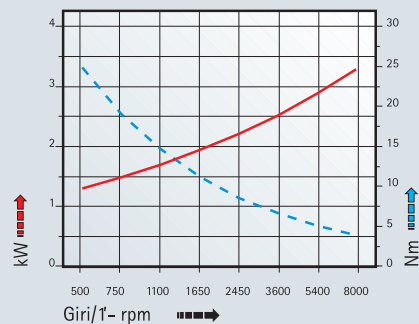


input



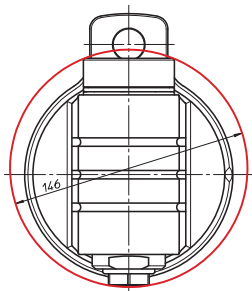
output

prestazioni performances TA13.PD

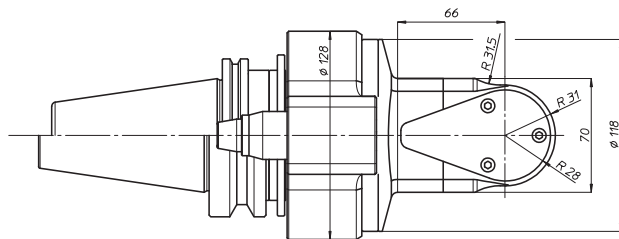
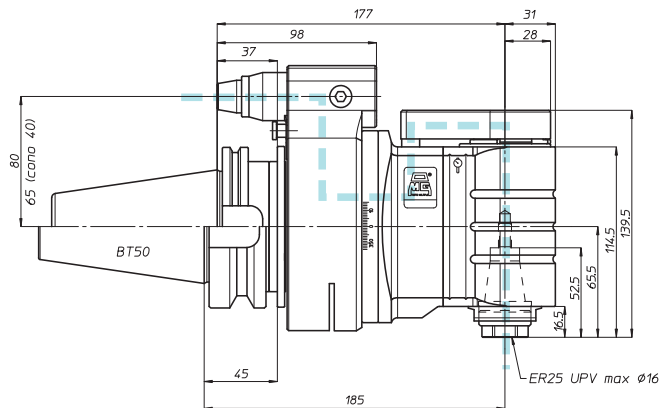


TA16.PD

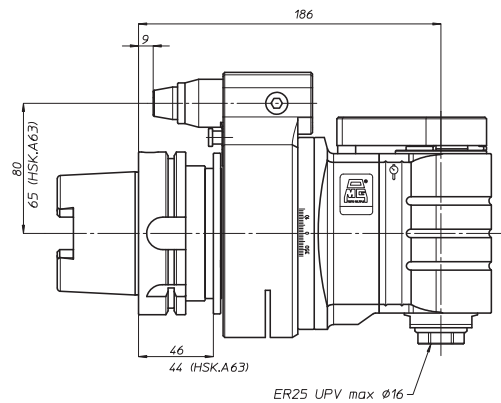
TA16PD-DIN69871.A40
 TA16PD-DIN69871.A45
 TA16PD-DIN69871.A50
 TA16PD-ANSI B5.50 CAT40
 TA16PD-ANSI B5.50 CAT50
 TA16PD-MAS403.BT40
 TA16PD-MAS403.BT50



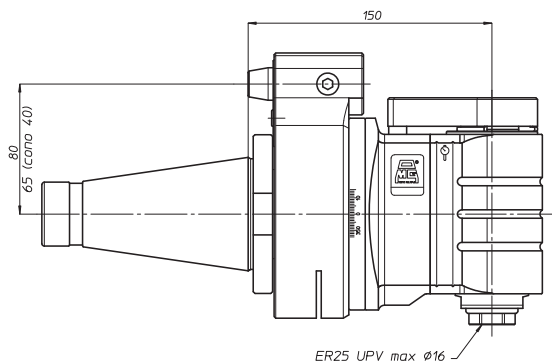
Diametro minimo del foro in cui entra la testa



TA16PD-DIN69893.HSK.A63
 TA16PD-DIN69893.HSK.A80
 TA16PD-DIN69893.HSK.A100



TA16PD-DIN2080.40
 TA16PD-DIN2080.50
 TA16PD-ANSI B5.18 NMTB40
 TA16PD-ANSI B5.18 NMTB50



peso/weight



7,7 kg



12 kg

rotazione/rotation

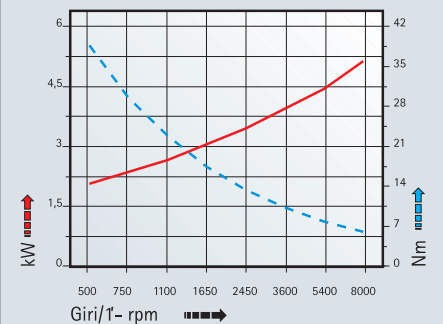


input



output

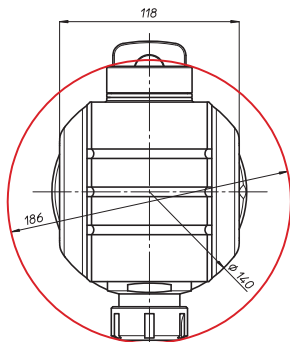
prestazioni performances **TA16.PD**



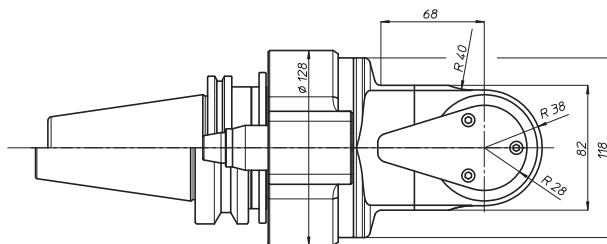
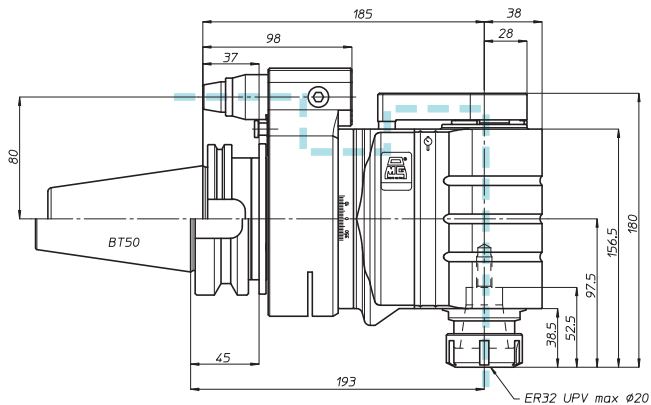
testa ad angolo - angle head

TA20.PD

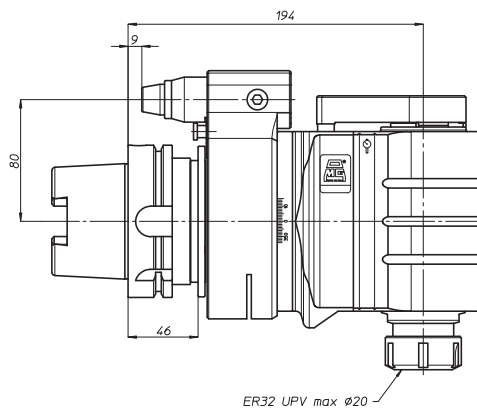
TA20PD-DIN69871.A45
 TA20PD-DIN69871.A50
 TA20PD-ANSI B5.50 CAT50
 TA20PD-MAS403.BT50



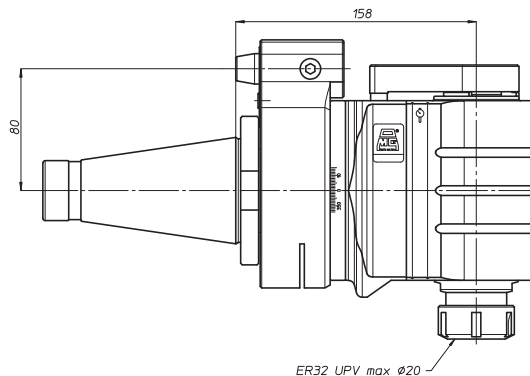
Diametro minimo del foro
 in cui entra la testa



TA20PD-DIN69893.HSK.A80
 TA20PD-DIN69893.HSK.A100



TA20PD-DIN2080.50
 TA20PD-ANSI B5.18 NMTB50



peso/weight



14,5 kg

rotazione/rotation

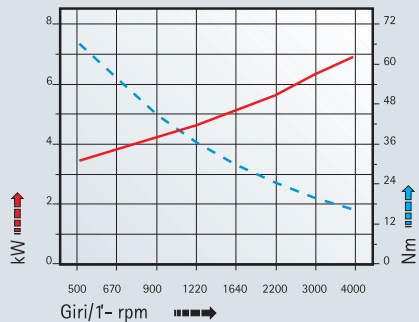


input



output

prestazioni performances **TA20.PD**



TA

MO

HT

VH

TSI/TSX

T

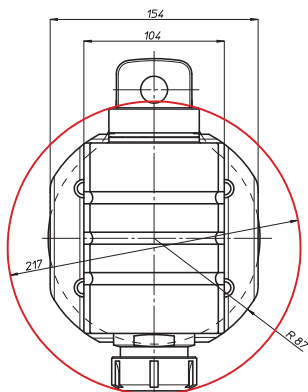
MT-TC-TC3

Accessori
 Accessories

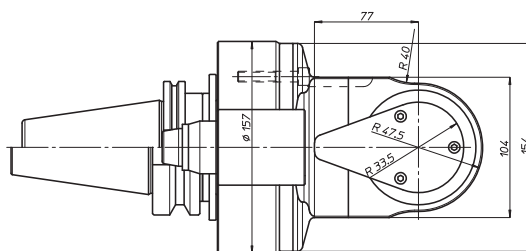
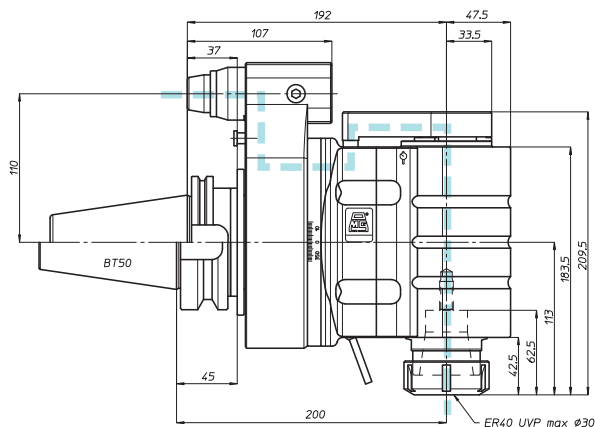
Appendice tecnica
 Technical supplement

TA26.PD

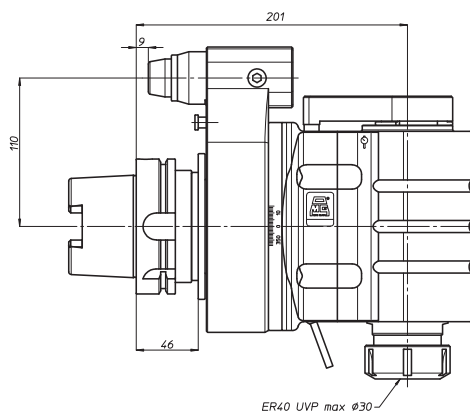
TA26PD-DIN69871.A50
 TA26PD-ANSI B5.50 CAT50
 TA26PD-MAS403.BT50



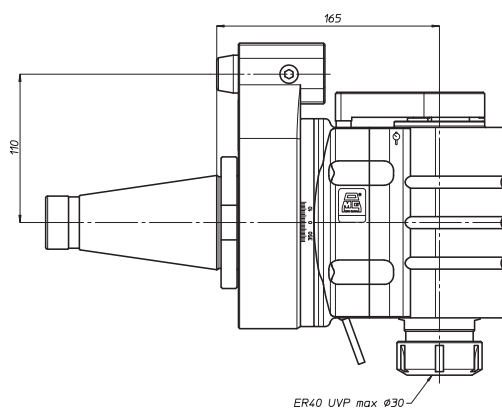
Diametro minimo del foro
 in cui entra la testa



TA26PD-DIN69893.HSK.A100



TA26PD-DIN2080.50
 TA26PD-ANSI B5.18 NMTB50



Ø 26

M20

1-1

2500



8 bar

peso/weight



22 kg

rotazione/rotation

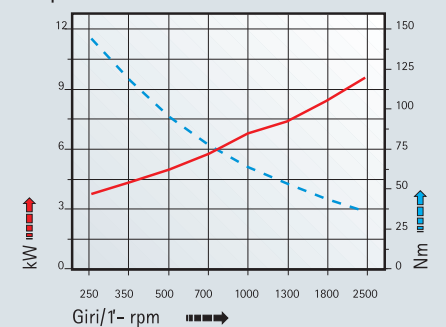


input



output

prestazioni performances **TA26.PD**



TA

MO

HT

VH

TSI/TSX

T

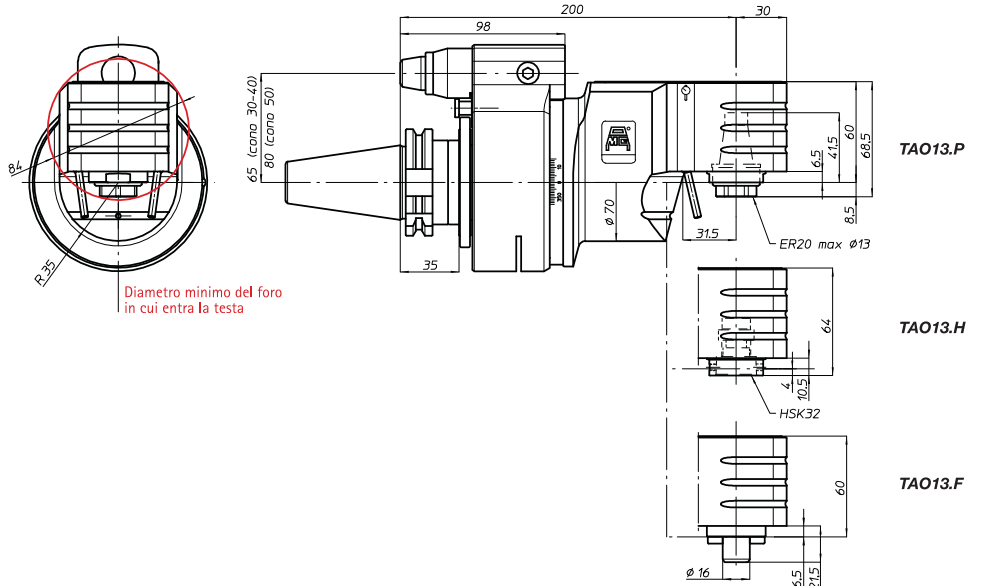
MT-TC-TC3

Accessori
AccessoriesAppendice tecnica
Technical supplement

testa ad angolo - angle head

TA013...

TA013...-DIN69871.A40
 TA013...-DIN69871.A45
 TA013...-DIN69871.A50
 TA013...-ANSI B5.50 CAT40
 TA013...-ANSI B5.50 CAT50
 TA013...-MAS403.BT40
 TA013...-MAS403.BT50



Diametro minimo del foro
in cui entra la testa



peso/weight



7,5 kg



10,5 kg

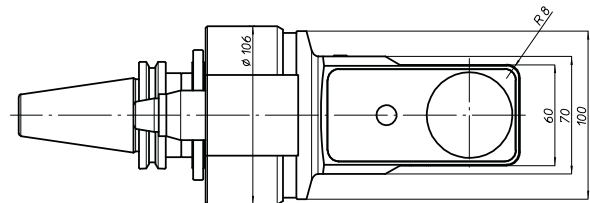
rotazione/rotation



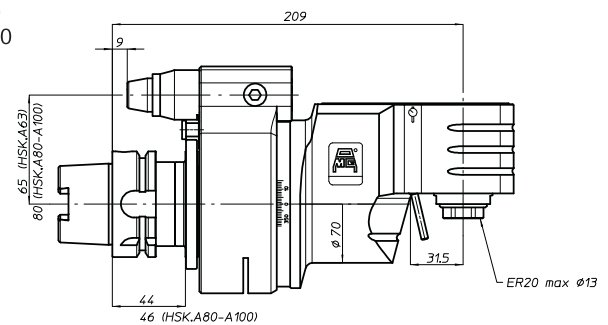
input



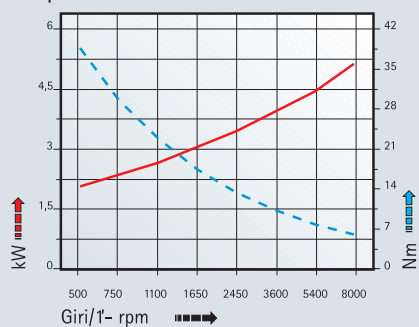
output



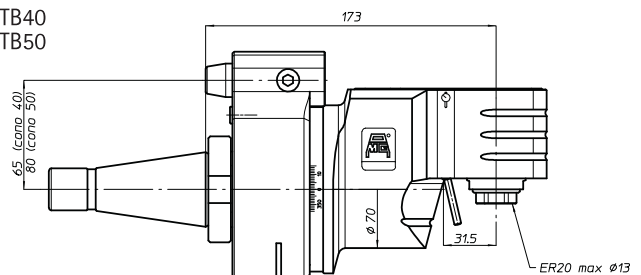
TA013...-DIN69893.HSK.A63
 TA013...-DIN69893.HSK.A80
 TA013...-DIN69893.HSK.A100



prestazioni
performances **TA013P**

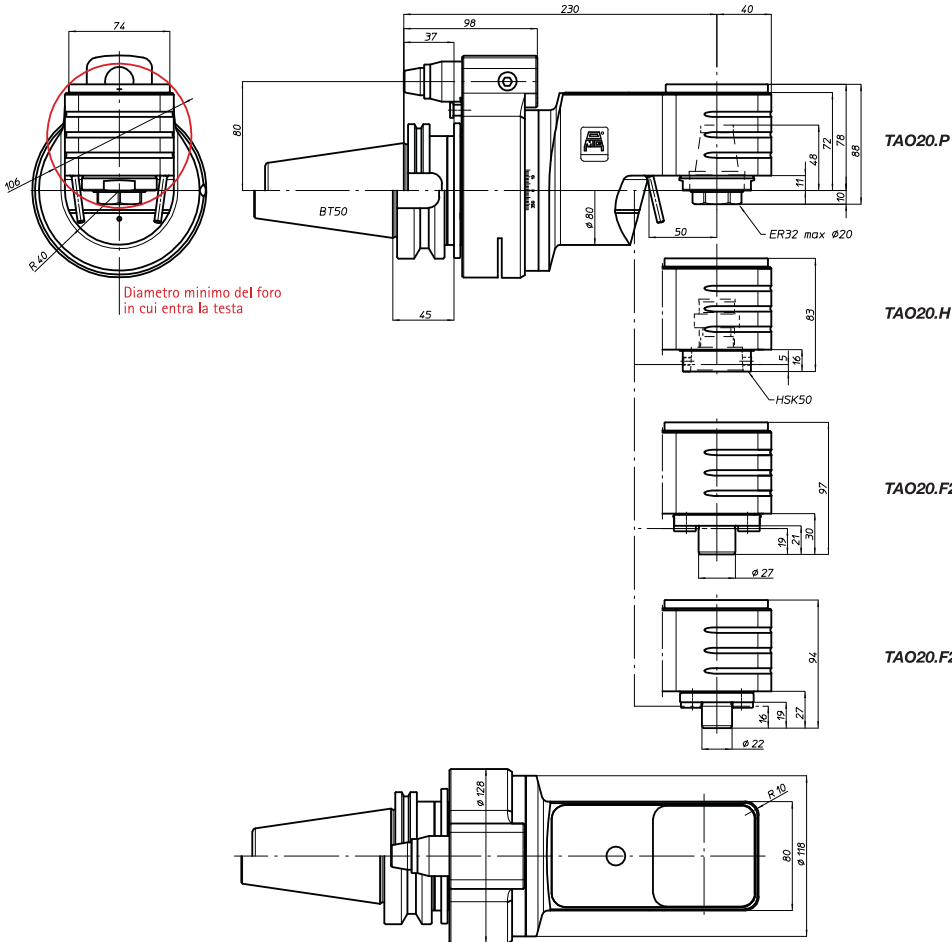


TA013...-DIN2080.40
 TA013...-DIN2080.50
 TA013...-ANSI B5.18 NMTB40
 TA013...-ANSI B5.18 NMTB50

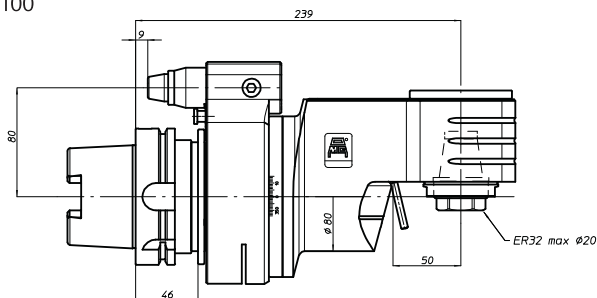


TAO20...

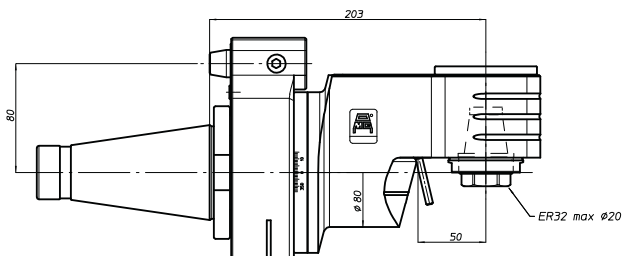
TAO20...-DIN69871.A45
 TAO20...-DIN69871.A50
 TAO20...-ANSI B5.50 CAT50
 TAO20...-MAS403.BT50



TAO20...-DIN69893.HSK.A80
 TAO20...-DIN69893.HSK.A100



TAO20...-DIN2080.50
 TAO20...-ANSI B5.18 NMTB50



peso/weight



14,5 kg

rotazione/rotation

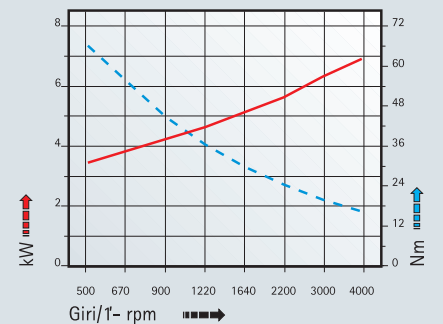


input



output

prestazioni performances **TAO20P**



TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
Accessories

Appendice tecnica
Technical supplement

TA

MO

HT

VH

TSI/TSX

T

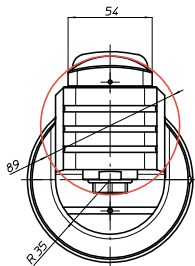
MT-TC-TC3

Accessori
AccessoriesAppendice tecnica
Technical supplement

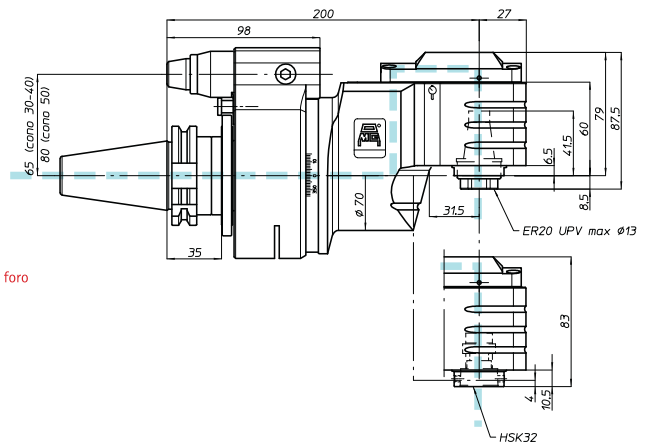
testa ad angolo - angle head

TAO13...D

TAO13...-DIN69871.A40
 TAO13...-DIN69871.A45
 TAO13...-DIN69871.A50
 TAO13...-ANSI B5.50 CAT40
 TAO13...-ANSI B5.50 CAT50
 TAO13...-MAS403.BT40
 TAO13...-MAS403.BT50

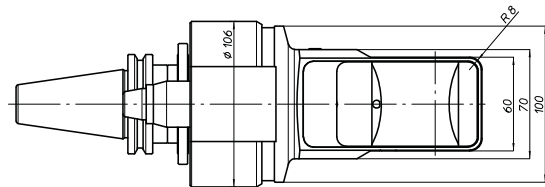


Diametro minimo del foro
in cui entra la testa



TAO13.PD

TAO13.HD



ø 13

M10

1-1

4500



40 bar

peso/weight



7,5 kg



10,5 kg

rotazione/rotation



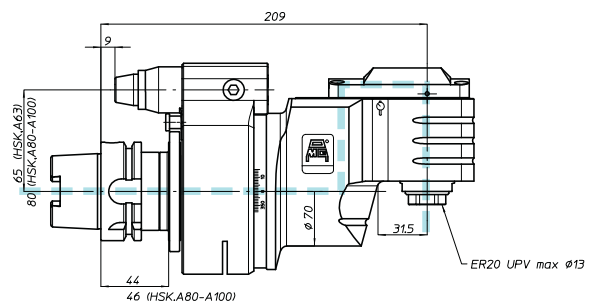
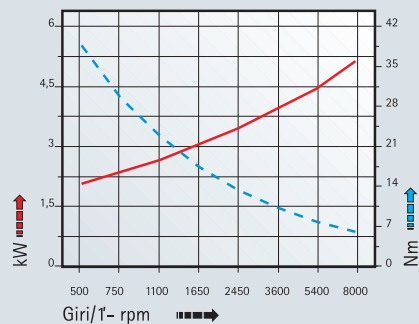
input



output

TAO13...-DIN69893.HSK.A63
 TAO13...-DIN69893.HSK.A80
 TAO13...-DIN69893.HSK.A100

prestazioni
performances **TAO13.PD**



testa ad angolo - angle head

TAV10.P

TAV10P-DIN69871.A40
 TAV10P-DIN69871.A45
 TAV10P-DIN69871.A50
 TAV10P-ANSI B5.50 CAT40
 TAV10P-ANSI B5.50 CAT50
 TAV10P-MAS403.BT40
 TAV10P-MAS403.BT50



peso/weight



6,4 kg



8,5 kg

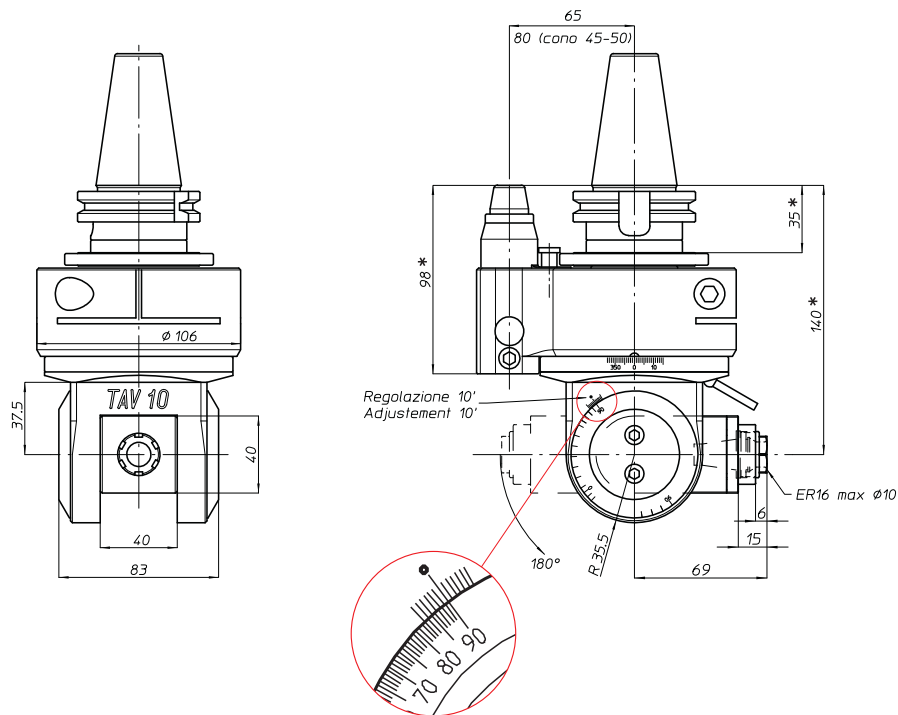
rotazione/rotation



input



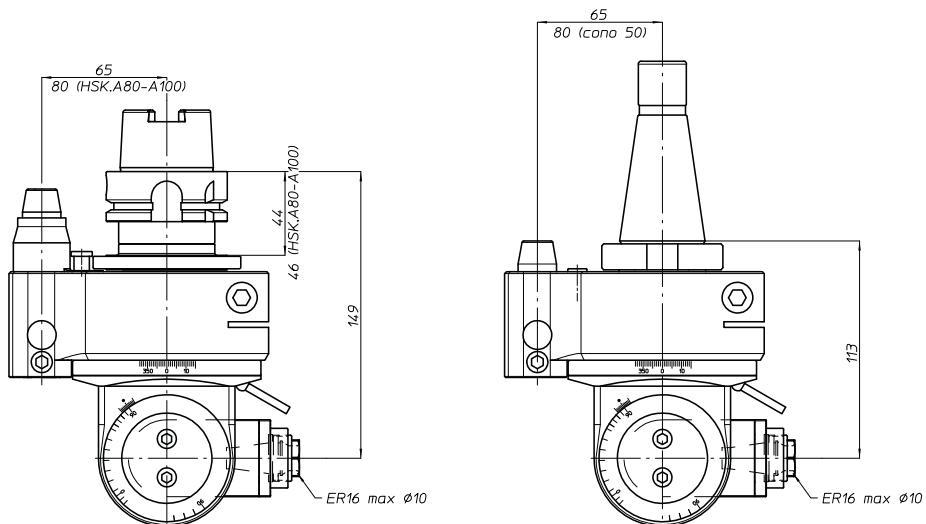
output



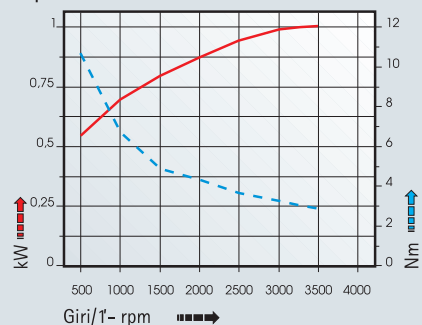
* Con cono BT50 aumentate le quote di 8 mm
 Increase the quote by 8 mm when using BT50 shank

TAV10P-DIN69893.HSK.A63
 TAV10P-DIN69893.HSK.A80
 TAV10P-DIN69893.HSK.A100

TAV10P-DIN2080.40
 TAV10P-DIN2080.50
 TAV10P-ANSI B5.18 NMTB40
 TAV10P-ANSI B5.18 NMTB50

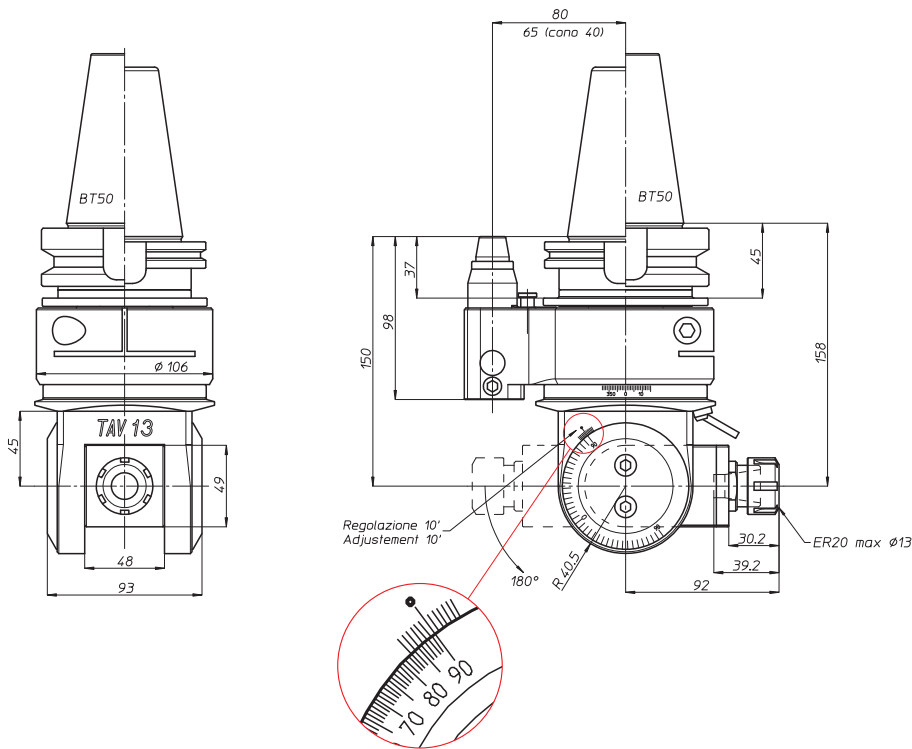


prestazioni performances **TAV10.P**



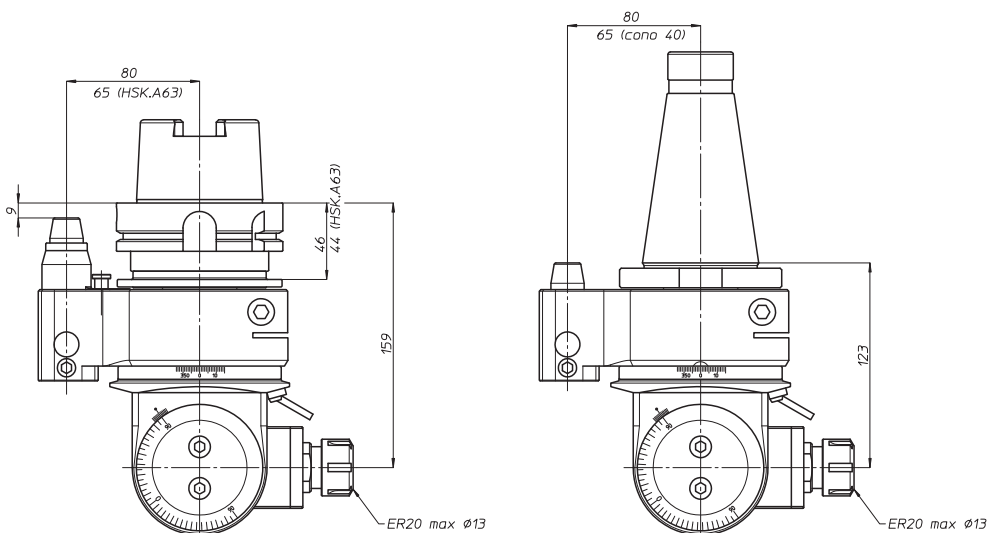
TAV13.P

TAV13P-DIN69871.A40
 TAV13P-DIN69871.A45
 TAV13P-DIN69871.A50
 TAV13P-ANSI B5.50 CAT40
 TAV13P-ANSI B5.50 CAT50
 TAV13P-MAS403.BT40
 TAV13P-MAS403.BT50

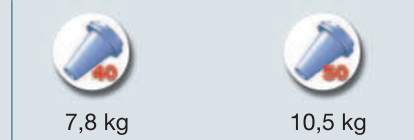


TAV13P-DIN69893.HSK.A63
 TAV13P-DIN69893.HSK.A80
 TAV13P-DIN69893.HSK.A100

TAV13P-DIN2080.40
 TAV13P-DIN2080.50
 TAV13P-ANSI B5.18 NMTB40
 TAV13P-ANSI B5.18 NMTB50



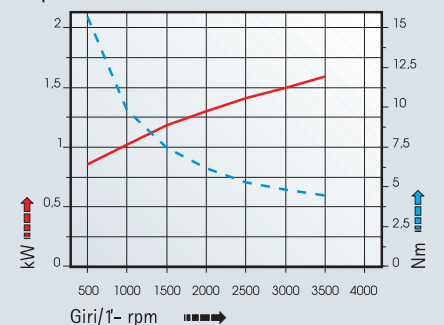
peso/weight



rotazione/rotation



prestazioni performances **TAV13.P**



TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
Accessories

Appendice tecnica
Technical supplement

testa ad angolo - angle head

TAV20.P

TAV20P-DIN69871.A50
TAV20P-ANSI B5.50 CAT50
TAV20P-MAS403.BT50



peso/weight



18,5 kg

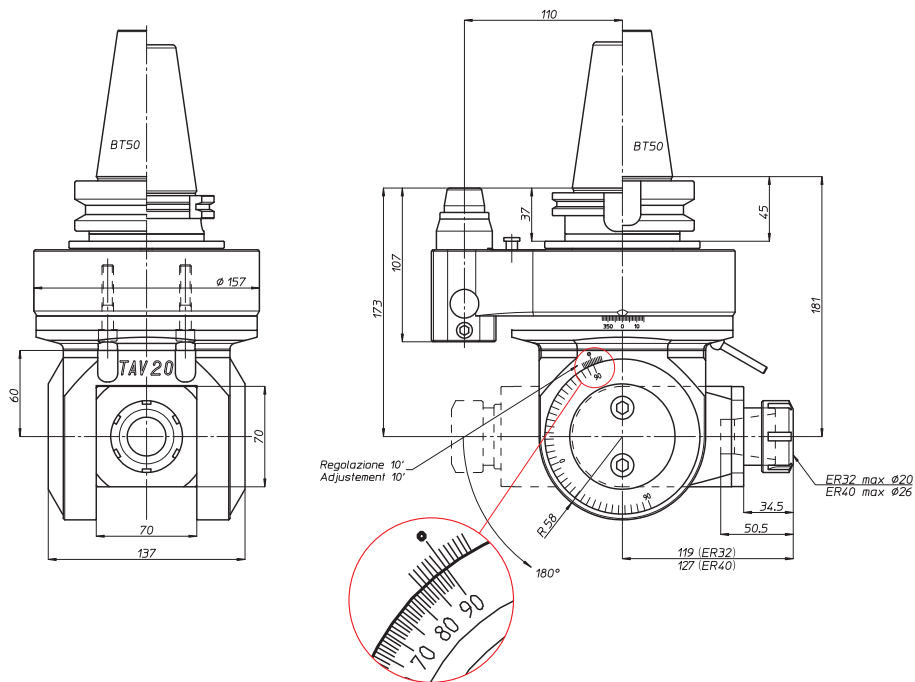
rotazione/rotation



input

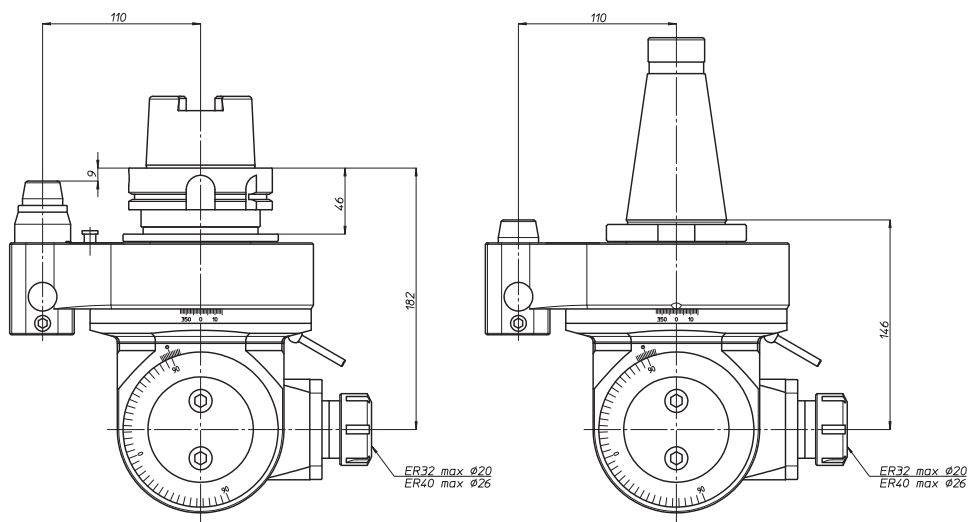


output

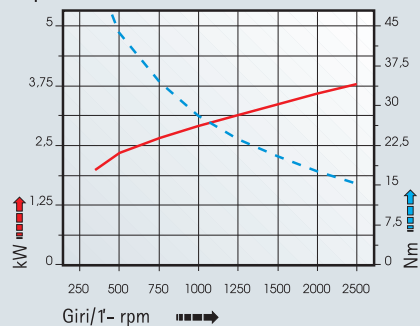


TAV20P-DIN69893.HSK.A100

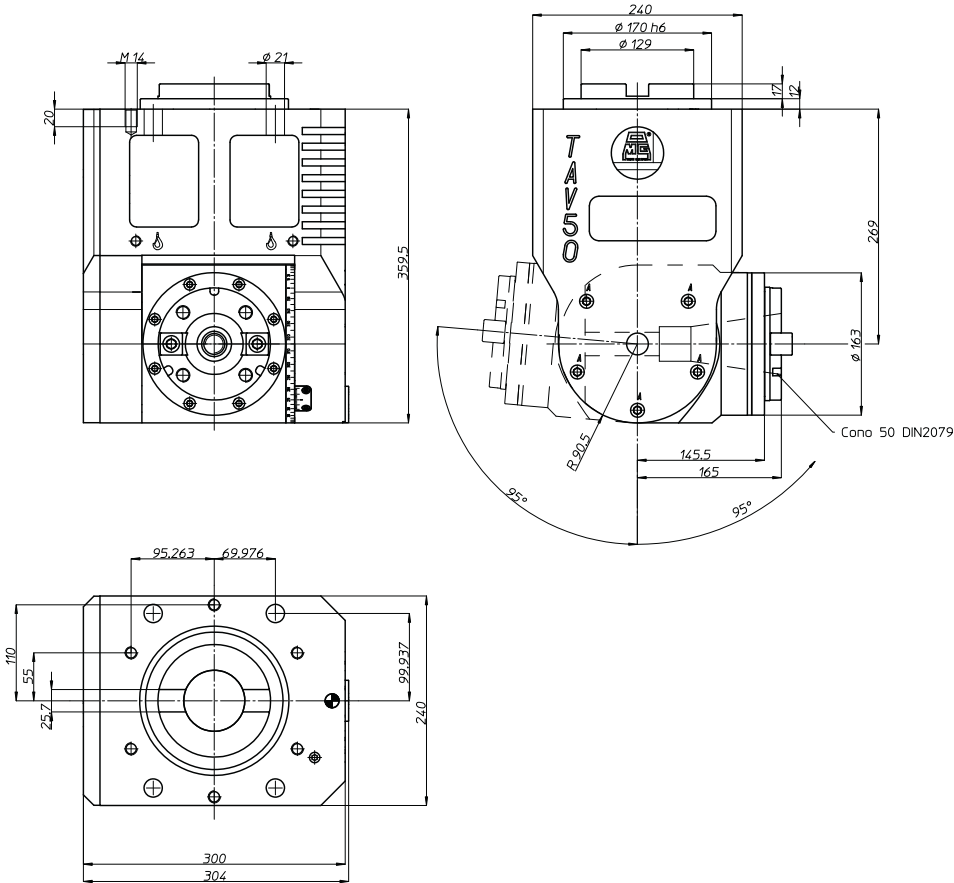
TAV20P-DIN2080.50
TAV20P-ANSI B5.18 NMTB50



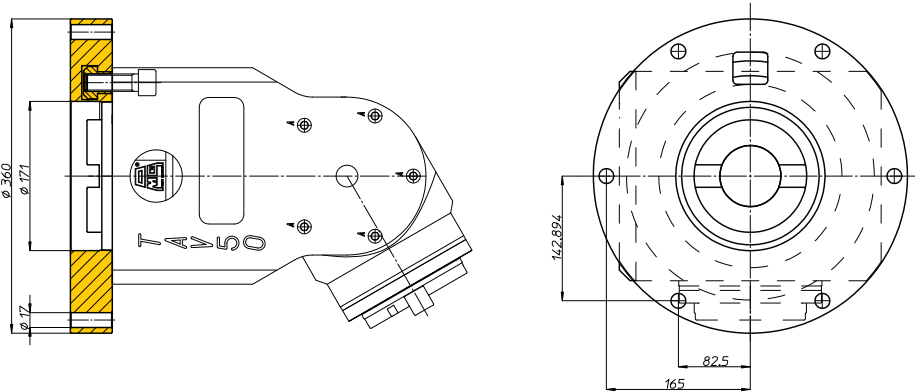
prestazioni performances **TAV20.P**



TAV50.T



esempio di collegamento - *connection example*



- 
ø 45
- 
M36
- 
1-2
- 
4500
OUTPUT

peso/weight



145 kg

rotazione/rotation

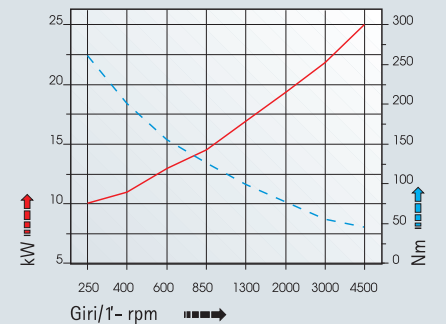


input



output

prestazioni performances **TAV50.T**

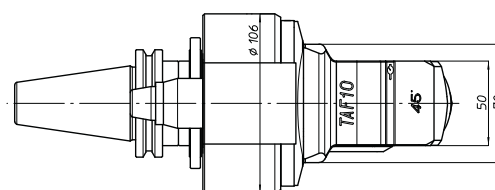
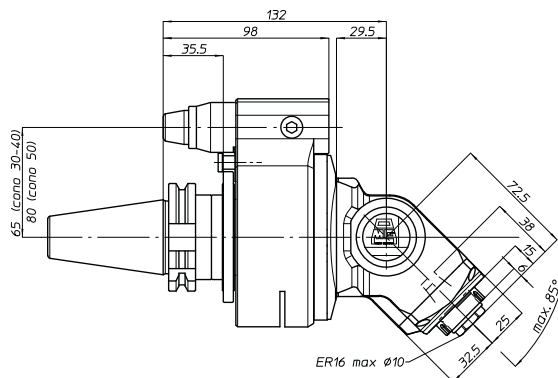
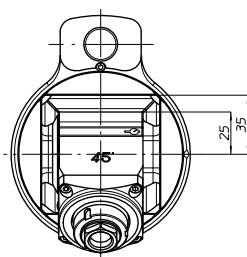


testa ad angolo - angle head

TAF10.P



- TAF10P-DIN69871.A30
- TAF10P-DIN69871.A40
- TAF10P-DIN69871.A45
- TAF10P-DIN69871.A50
- TAF10P-ANSI B5.50 CAT40
- TAF10P-ANSI B5.50 CAT50
- TAF10P-MAS403.BT40
- TAF10P-MAS403.BT50



peso/weight



5,5 kg



7 kg

rotazione/rotation

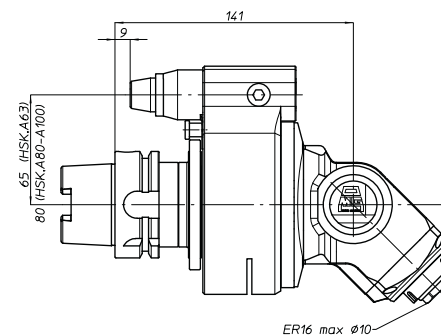


input

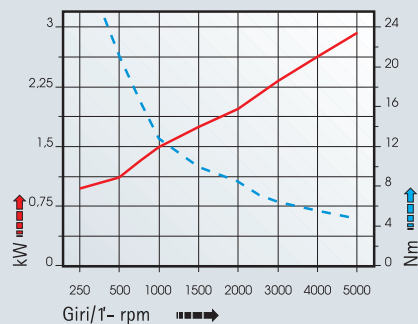


output

- TAF10P-DIN69893.HSK.A63
- TAF10P-DIN69893.HSK.A80
- TAF10P-DIN69893.HSK.A100

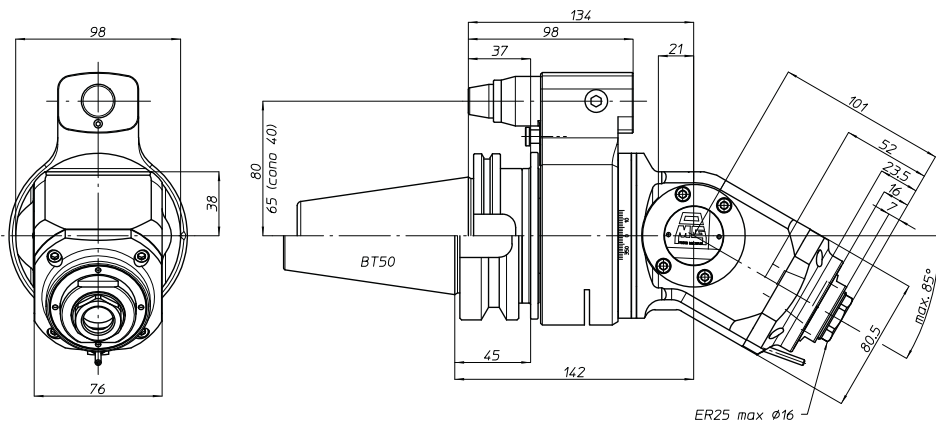


prestazioni performances **TAF10.P**



TAF13.P

TAF13P-DIN69871.A40
 TAF13P-DIN69871.A45
 TAF13P-DIN69871.A50
 TAF13P-ANSI B5.50 CAT40
 TAF13P-ANSI B5.50 CAT50
 TAF13P-MAS403.BT40
 TAF13P-MAS403.BT50



peso/weight



6,5 kg



8,5 kg

rotazione/rotation

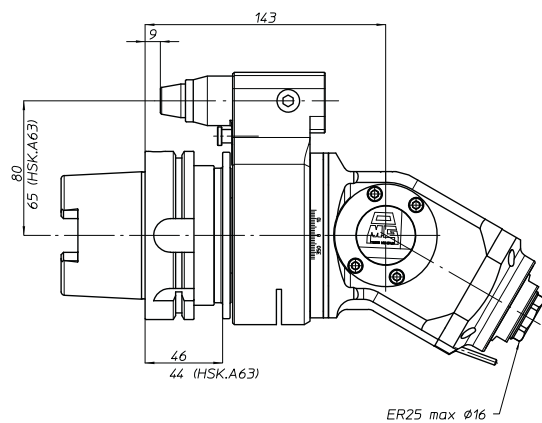


input

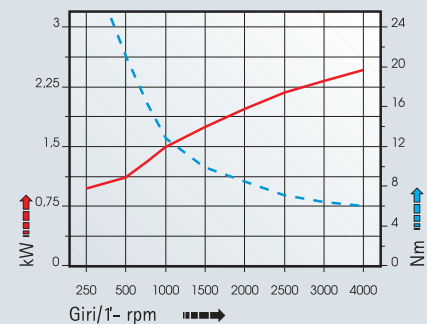


output

TAF13P-DIN69893.HSK.A63
 TAF13P-DIN69893.HSK.A80
 TAF13P-DIN69893.HSK.A100



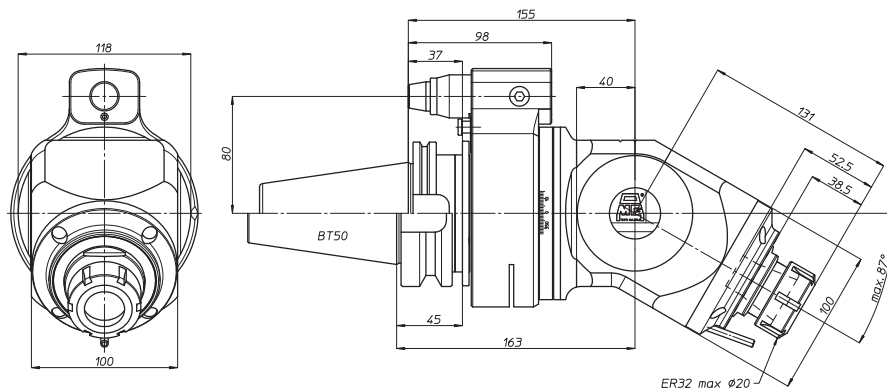
prestazioni performances **TAF13.P**



testa ad angolo - angle head

TAF20.P

TAF20P-DIN69871.A45
 TAF20P-DIN69871.A50
 TAF20P-ANSI B5.50 CAT50
 TAF20P-MAS403.BT50



peso/weight



13,5 kg

rotazione/rotation

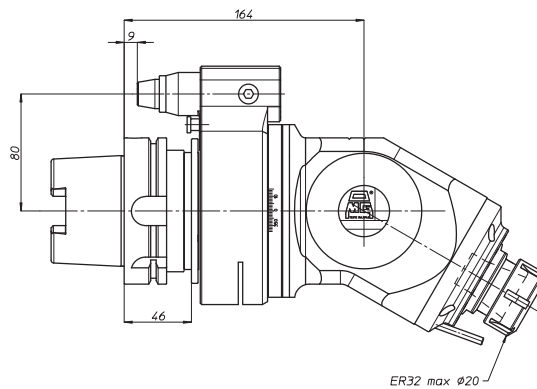


input

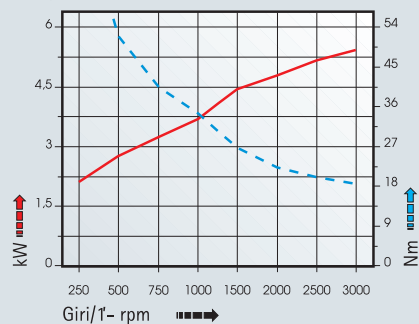


output

TAF20P-DIN69893.HSK.A80
 TAF20P-DIN69893.HSK.A100



prestazioni performances **TAF20.P**





TA

MO

HT

VH

TSI/TSX

T

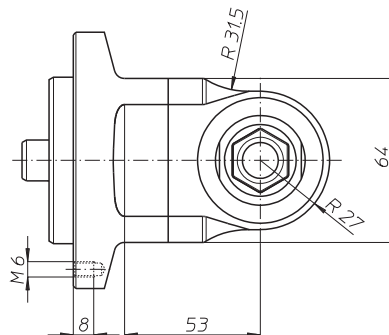
MT-TC-TC3

Accessori
Accessories

Appendice tecnica
Technical supplement

testa ad angolo - angle head

TA13P.T



peso/weight



3,5 kg

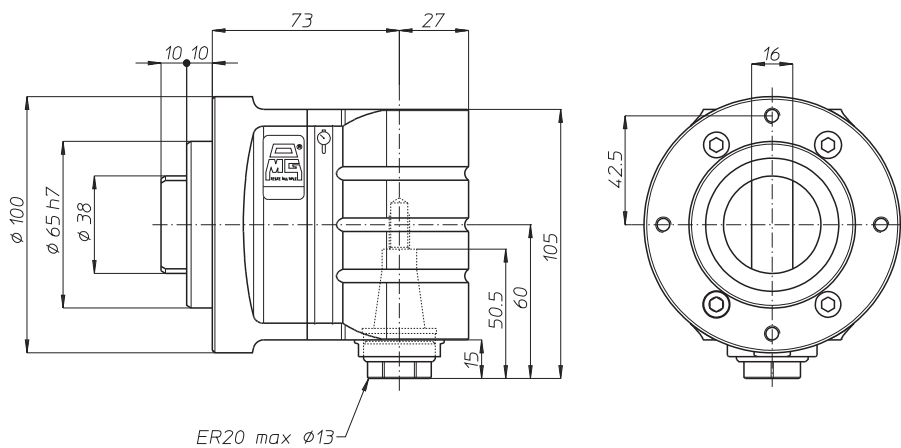
rotazione/rotation



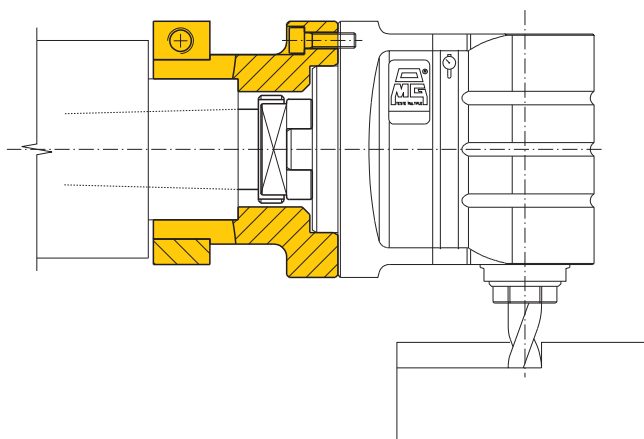
input



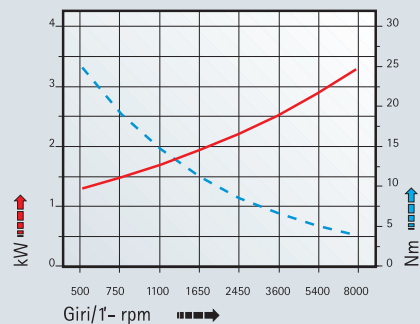
output



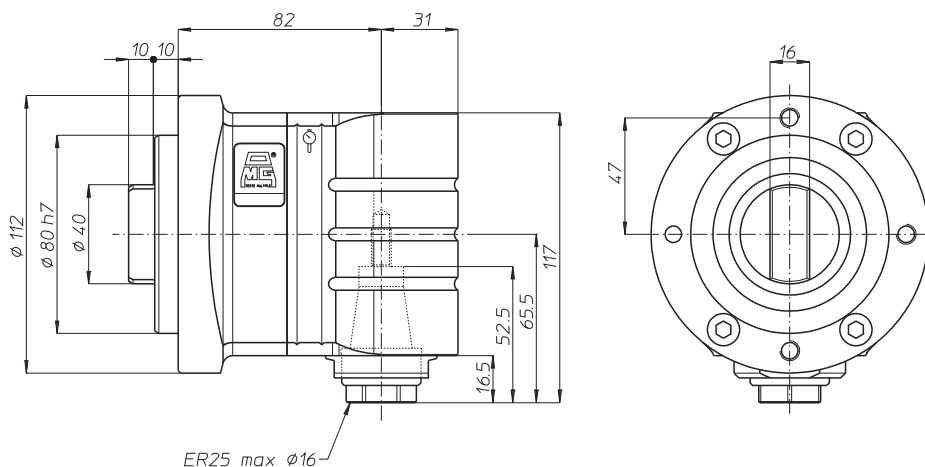
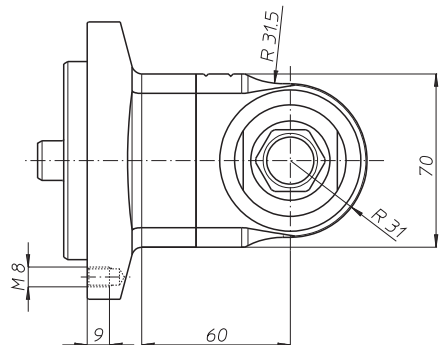
esempio di collegamento - connection example



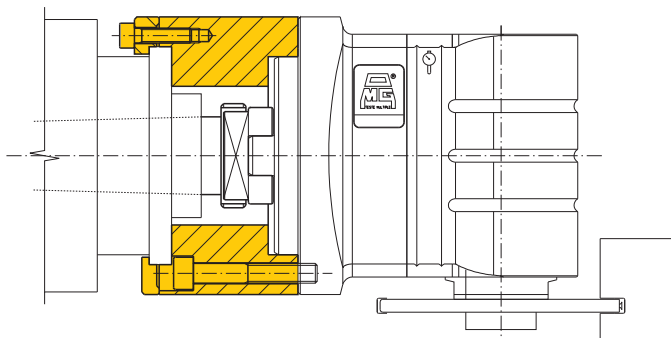
prestazioni performances TA13P.T



TA16P.T



esempio di collegamento - *connection example*



peso/weight



5 kg

rotazione/rotation

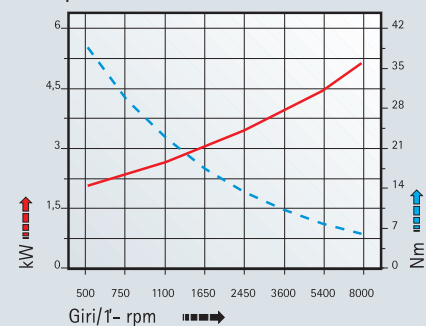


input



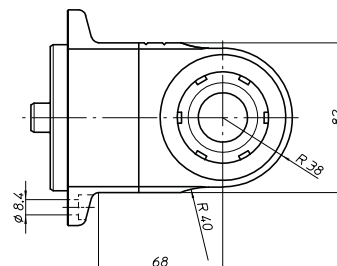
output

prestazioni performances **TA16P.T**



testa ad angolo - angle head

TA20...T



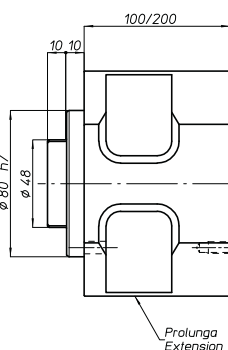
TA20P.T



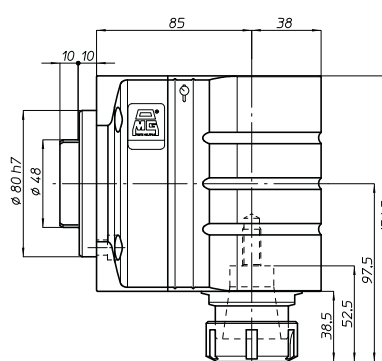
peso/weight

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

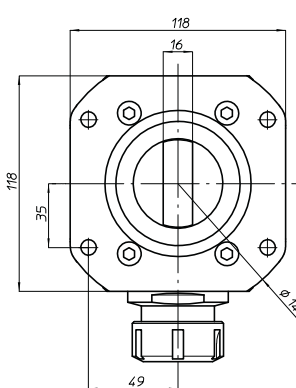
rotazione/rotation



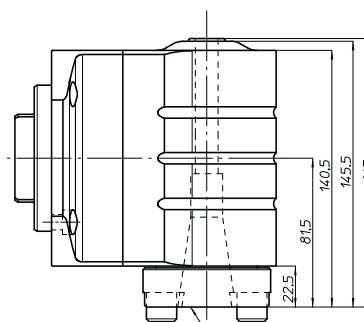
Prolunga Extension



ER32 max ø 20

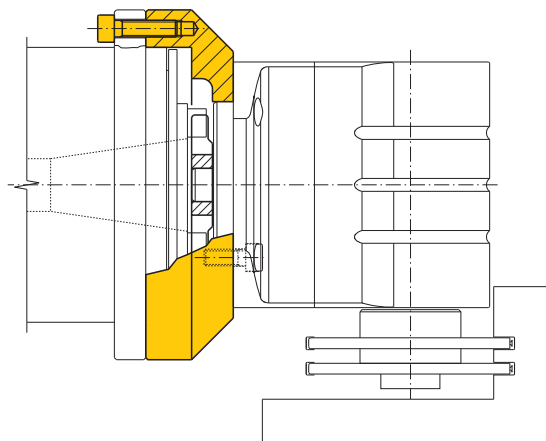


TA20.30.T

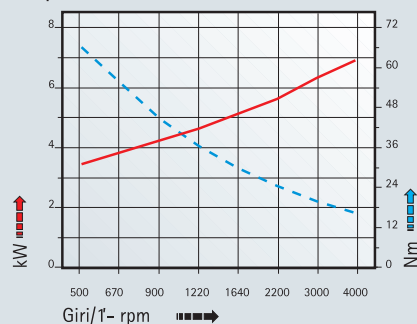


Cono 30 DIN2079

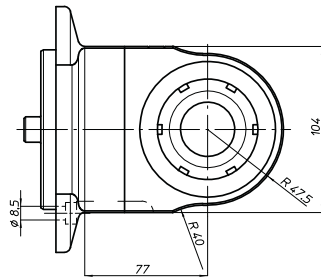
esempio di collegamento - connection example



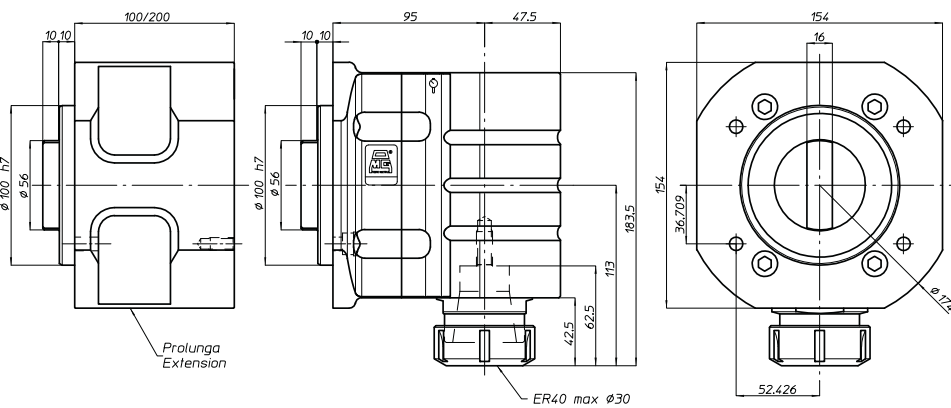
prestazioni performances TA20...T



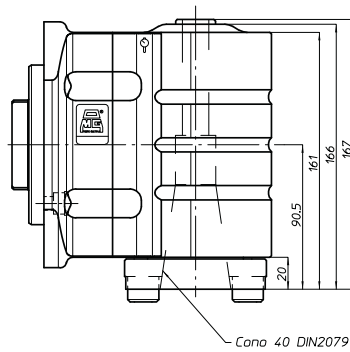
TA26...T



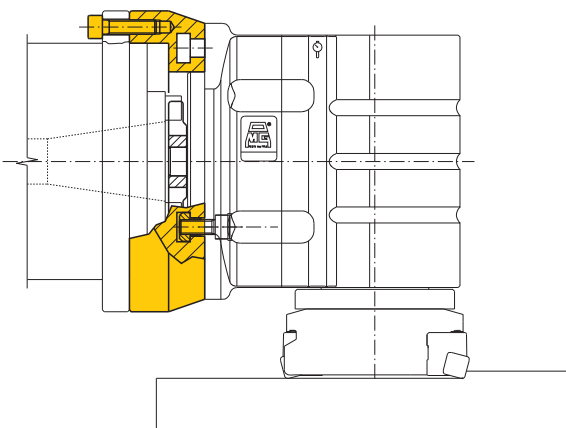
TA26P.T



TA26.40.T



esempio di collegamento - connection example



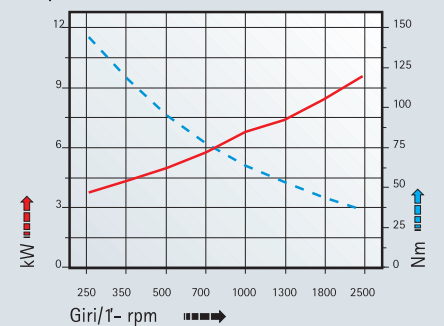
peso/weight



rotazione/rotation

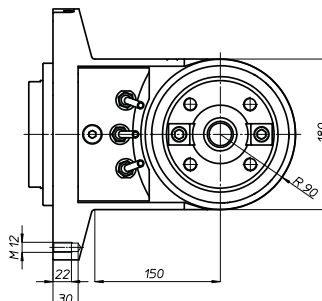


prestazioni performances TA26...T



testa ad angolo - angle head

TA50.T



TA50.T (rpm 2500)
TA50HV.T (rpm 4500)



peso/weight



95 kg

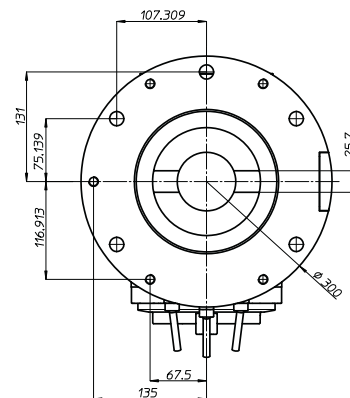
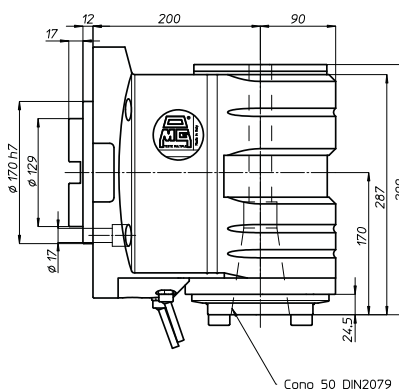
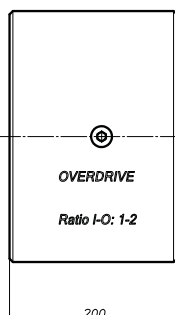
rotazione/rotation



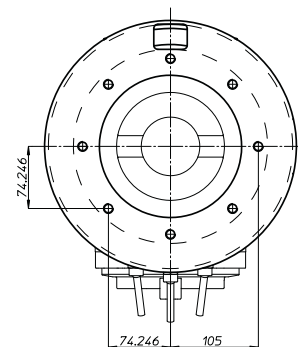
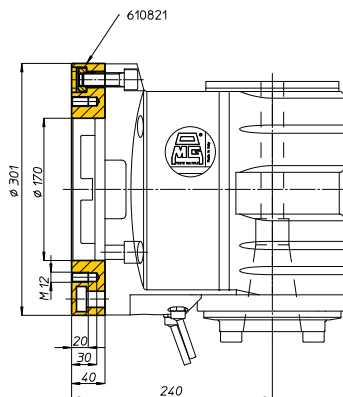
input



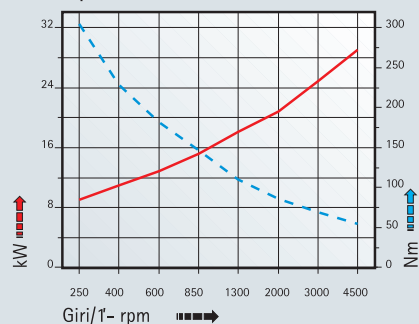
output



esempio di collegamento - connection example



prestazioni performances TA50.T





TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

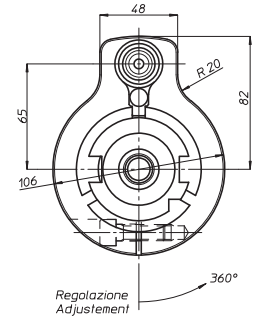
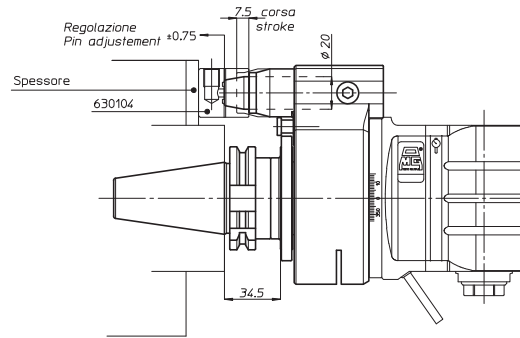
Accessori
Accessories

Appendice tecnica
Technical supplement



Antirotante Torque arm

Teste con cono 30-40
Heads with 30-40 shank



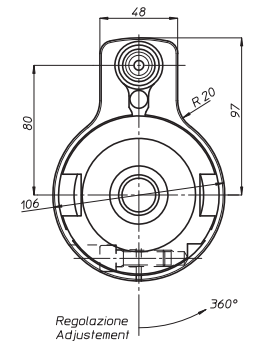
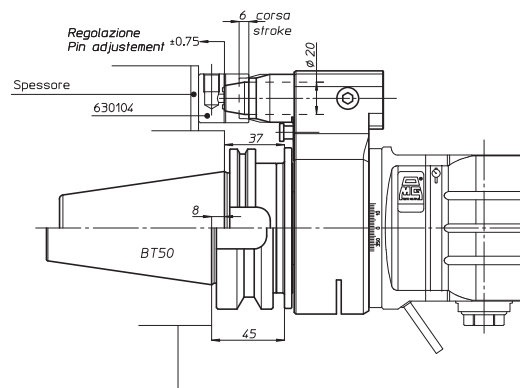
Il gruppo antirotante ricopre una funzione di fondamentale importanza nella qualità di lavorazione della testa ad angolo. Per questo motivo i tecnici della OMG hanno studiato e messo a punto un antirotante di nuova concezione i cui punti salienti sono:

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

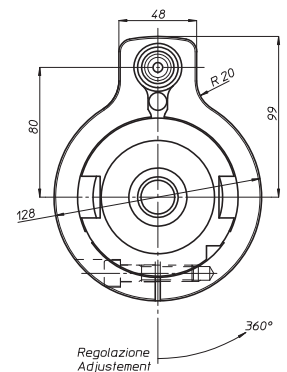
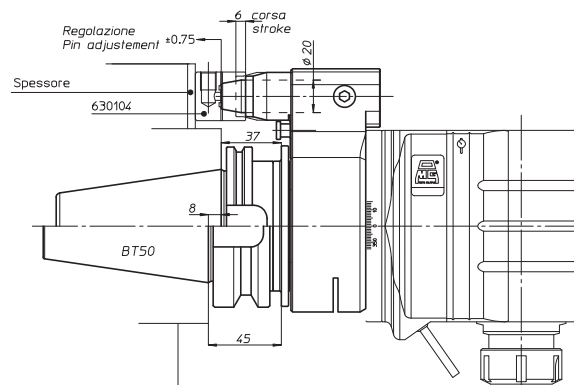
Il perno conico e la propria registrazione assiale di mm 1.5 permettono una maggiore rigidità del sistema antirotante rispetto ai tradizionali, dotati di perni di mm 18 perché si eliminano i giochi con conseguente miglioramento della rigidità sia angolare che assiale.

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

Teste TA04-TA06-TA07-TA10-TA13-TAV10-TAV13-TAF10-TAF13-TAO13... con cono 50
TA04-TA06-TA07-TA10-TA13-TAV10-TAV13-TAF10-TAF13-TAO13... heads with 50 shank



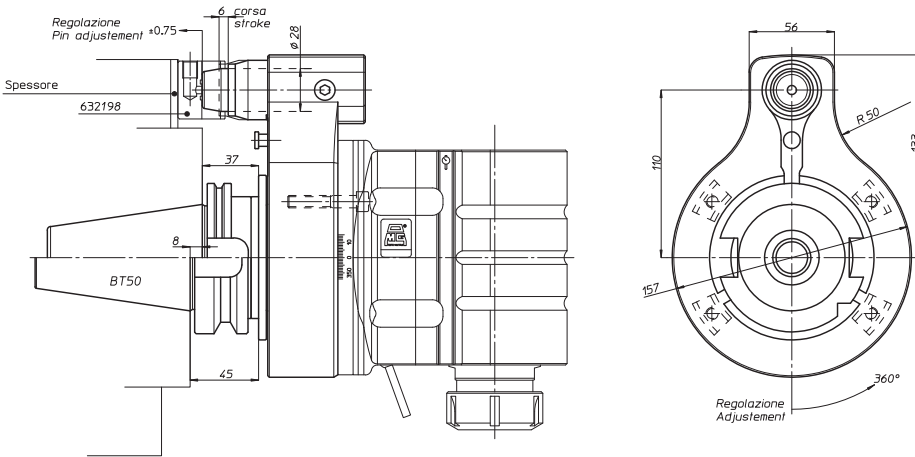
Teste TA16-TA20-TAF20-TAO20...
TA16-TA20-TAF20-TAO20... heads



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

Antirotante Torque arm

Teste TA26-TAV20
TA26-TAV20 heads



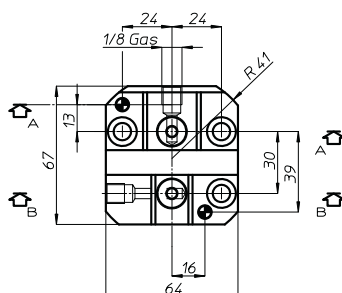
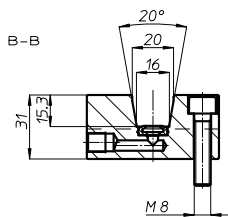
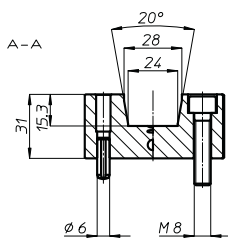
The antirotation system is crucial as far as angle-head machining quality is concerned. For this reason OMG technicians have designed and developed a new antirotation system with the following characteristics:

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

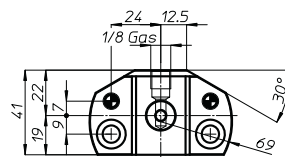
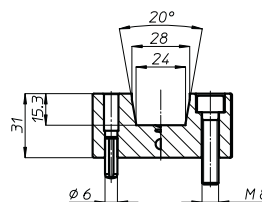
The conical pin and its 1.5 mm axial adjustment ensure upgraded antirotation system strength compared to traditional systems, featuring 18 mm diameter pins, because play is eliminated, thereby improving both angular and axial strength.

By sending 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.

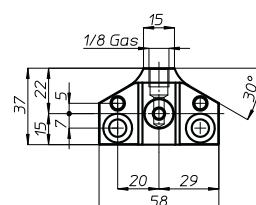
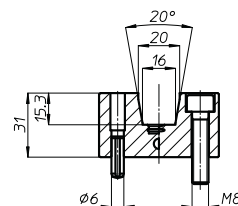
Double Stop-block (cod. 632199)



Stop-block (cod. 632198)



Stop-block (cod. 630104)

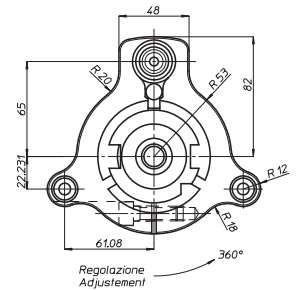
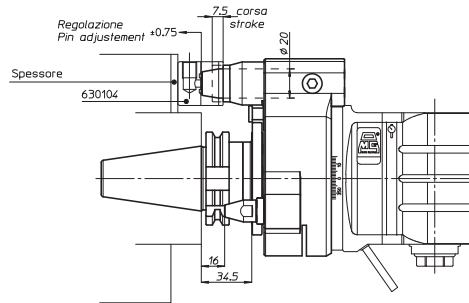


Position the conical pin on the opposite side of the angle head spindle when possible in your application.



Antirotante TRIBLOCK Torque arm TRIBLOCK

Teste con cono 40
Heads with 40 shank

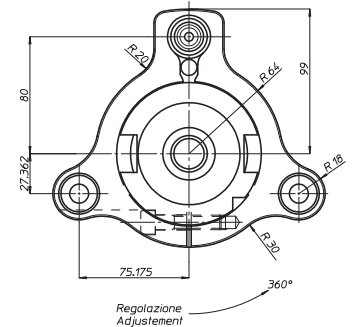
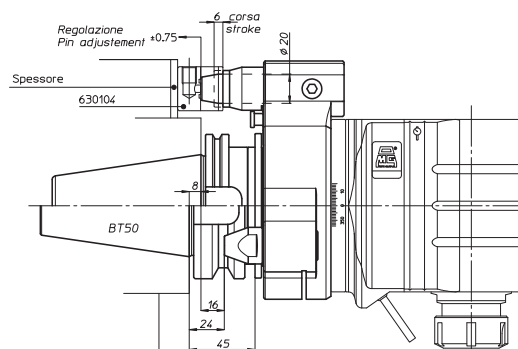


Il gruppo antirotante TRIBLOCK ricopre una funzione di fondamentale importanza quando alla testa ad angolo è richiesto

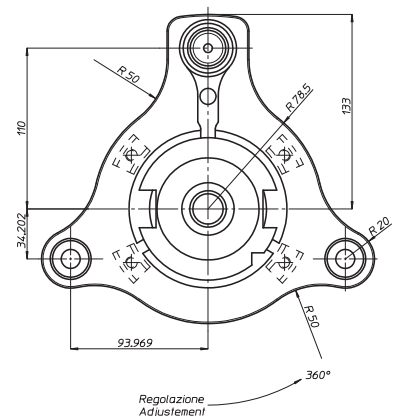
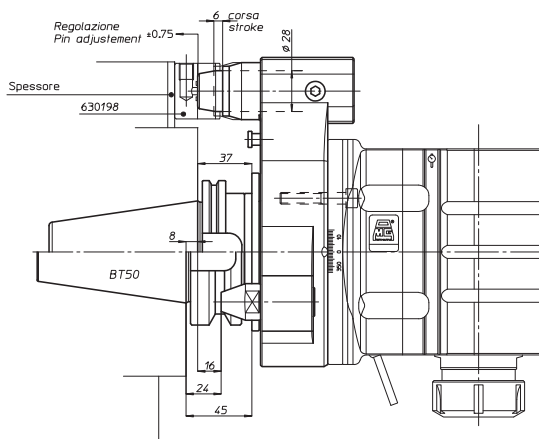
- Di eseguire una lavorazione più pesante
- Di essere più lunga dello standard
- Una finitura superficiale eccellente

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 con cono 50
Heads with 50 shank



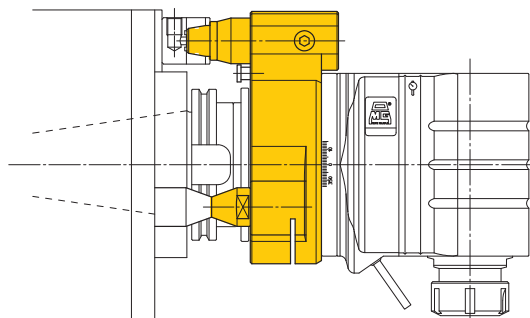
Teste TA26 - TAV20
TA26 - TAV20 heads



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

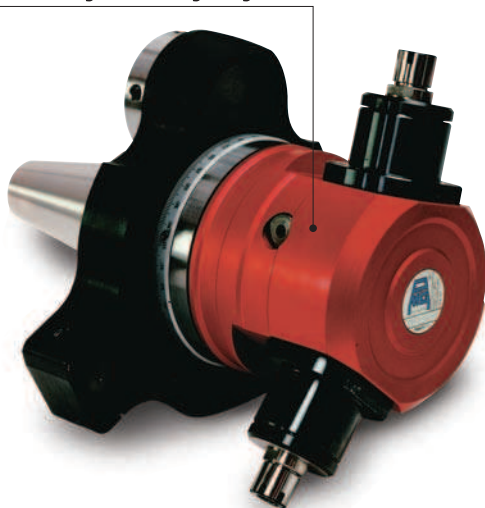
Antirotante TRIBLOCK Torque arm TRIBLOCK

Sul mandrino macchina
On spindle machine



TFS 25994

Testa bimandrino di foratura peso Kg18
Twin drilling head, weight Kg18

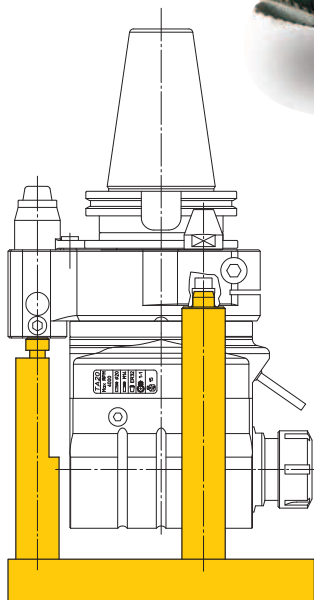


TFS 39195

Testa bimandrino di fresatura n° 2 frese ϕ 100 peso Kg 33
Twin milling head, nr. 2 milling cutter ϕ 100 weight Kg 33



Sul supporto da tavola
On rack table



The Triblock antirotation 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 support outside the standard magazine, the Triblock system uses the three points to position the angle heads.



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

TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
Accessories

Appendice tecnica
Technical supplement

Teste ad angolo speciali

Special angle heads

TAS 08606

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



TFS 36699

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



TFS 44298

Testa ad angolo con mandrino ribaltato
peso kg 8,5
*Reverse spindle angle head
weight kg 8,5*



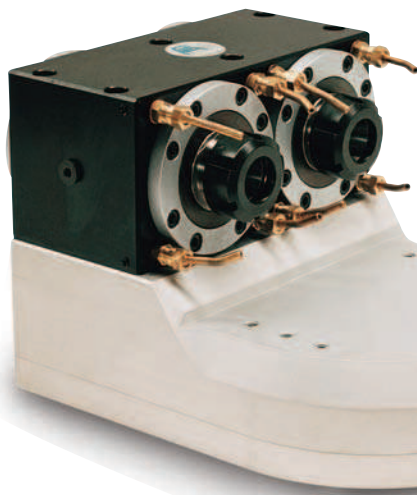
TAS 13107

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



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 19997

Testa ad angolo
bimandrino per foratura.
Angolo fra i mandrini 35°
peso kg 6,7
*Twin drilling angle head.
Spindle angle 35°
weight kg 6,7*



Teste ad angolo speciali Special angle heads

TFS 09400

Testa di fresatura
con n°2 frese $\phi 125$
peso kg 20
*Milling angle head with
nr. 2 $\phi 125$ milling cutter
weight kg 20*



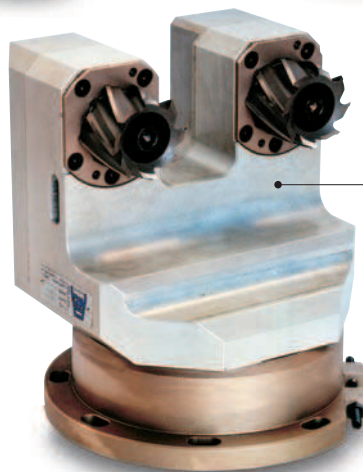
TFS 12095

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



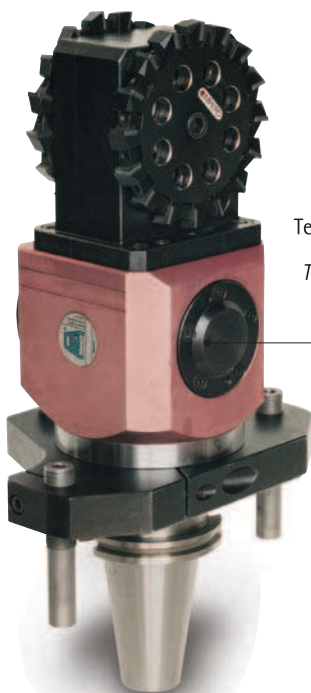
TFS 21701

Testa di fresatura
a due mandrini paralleli
peso kg 14
*Milling angle head.
With two parallel spindle
weight kg 14*



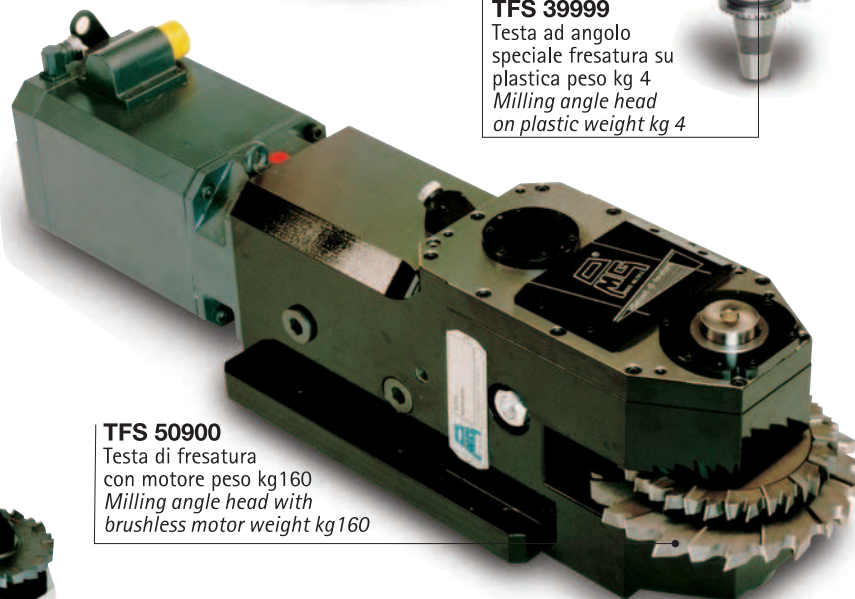
TFS 20298

Testa bimandrino di fresatura
n°2 frese $\phi 120$ peso kg 25
*Twin milling angle head, nr.2
milling cutter $\phi 120$
weight kg 25*



TFS 39999

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



TFS 50900

Testa di fresatura
con motore peso kg160
*Milling angle head with
brushless motor weight kg160*

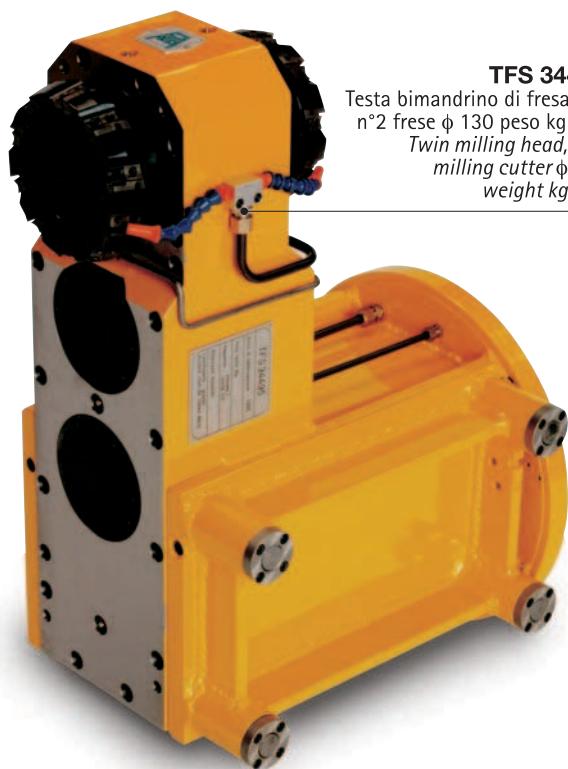


TFS 24196

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

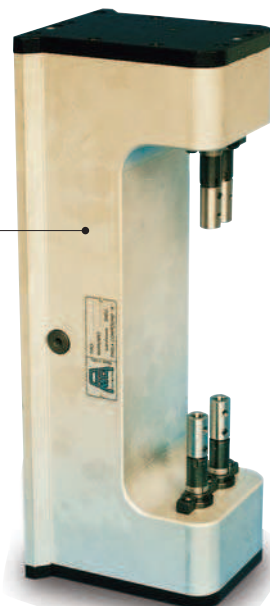


TFS 34495

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

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 13198

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



TFS 39998

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



TFS 39997

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

TA 17292

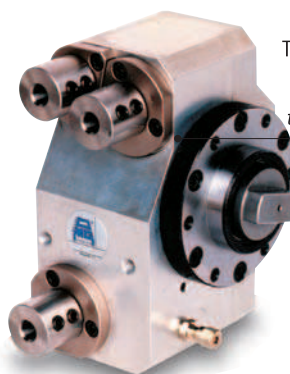
Testa ad angolo di fresatura
n°2 frese per legno
peso kg 3
*Twin angle head with nr.2
milling cutter for wood
weight kg 3*



Teste ad angolo speciali Special angle heads



TAS 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



TFS 23301
Testa ad angolo di foratura a tre mandrini peso kg 5,9
Drilling angle head with three spindle weight kg 5,9



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



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

TA 13806
Testa ad angolo per centro di lavoro con ATC e ATC sul mandrino testa Capto C4 peso kg 36
Angle head for ATC machining centre with ATC Capto C4 on spindle weight kg 36



TAS 39706
Testa di fresatura per supporto motore frese ϕ 160/180 peso kg 31
Milling head for engine's bracket milling cutter ϕ 160/180 weight kg 31

TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
AccessoriesAppendice tecnica
Technical supplement

Teste ad angolo speciali

Special angle heads



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



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



TFS 09596
 Testa ad angolo di foratura
 con passaggio refrigerante
 attraverso il mandrino peso kg 21
*Drilling angle head with coolant
 through the spindle weight kg 21*



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 35698
 Testa ad angolo di fresatura
 con fresa ϕ 100 peso Kg34
*Milling angle head, with
 milling cutter ϕ 100
 weight Kg 34*



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

TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
AccessoriesAppendice tecnica
Technical supplement

Teste ad angolo speciali

Special angle heads

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*



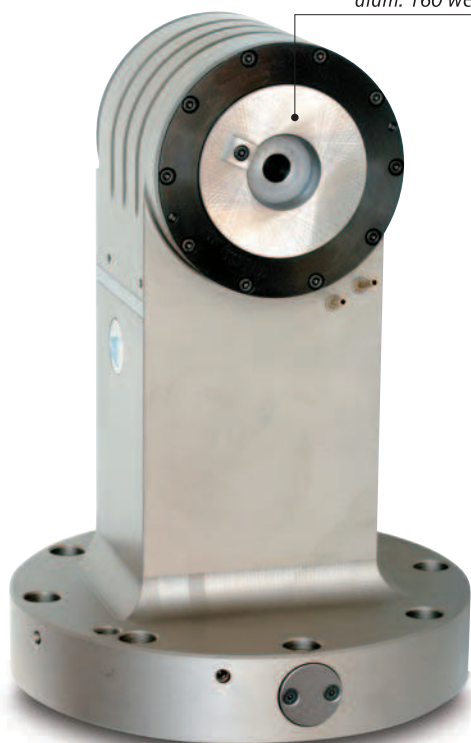
TAS 20706

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



TA 09603

Testa ad angolo di alesatura con
utensile diam. 160 peso Kg 77
*Milling angle head with boring tools
diam. 160 weight Kg 77*



TFS 40601

Testa ad angolo bimandrino, angolo
tra i due mandrini 176° peso Kg 13
*Twin angle head, angle spindle to
spindle 176° weight Kg 13*



TFS 06003

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



TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
Accessories

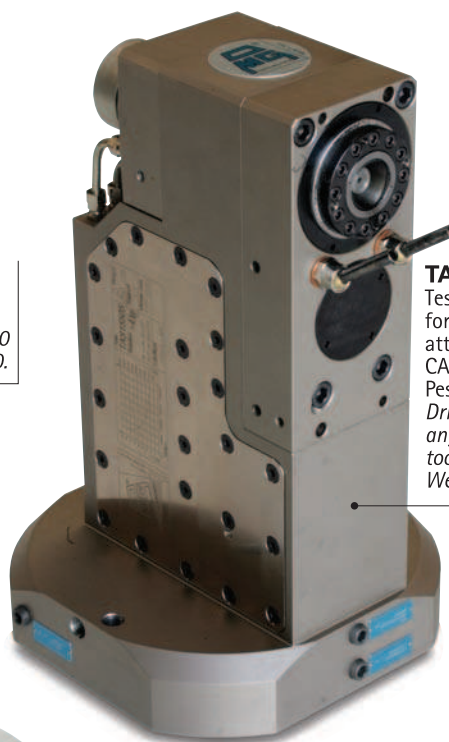
Appendice tecnica
Technical supplement

Teste ad angolo speciali

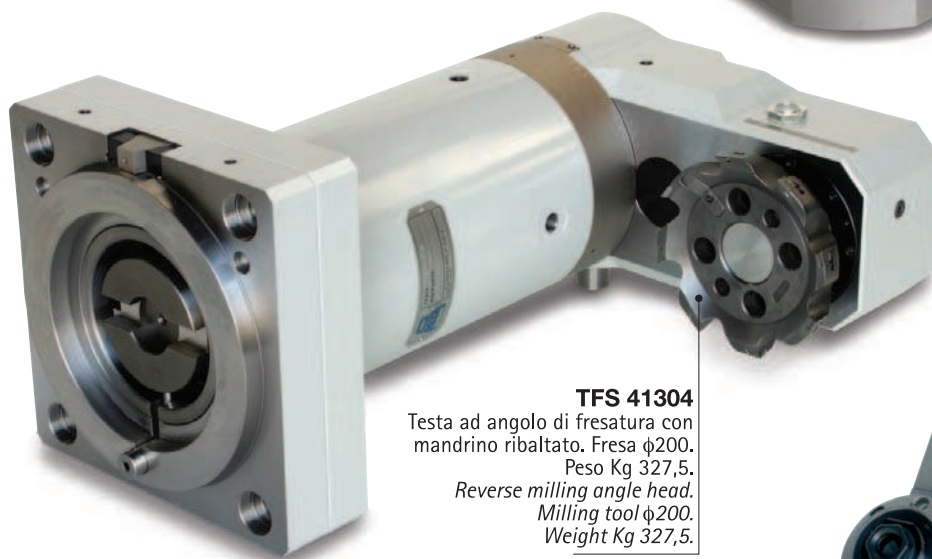
Special angle heads



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



TAS 15505
 Testa ad angolo di
 foratura e fresatura,
 attacco utensile
 CAPTO C4 automatico.
 Peso Kg 130.
*Drilling and milling
 angle head, automatic
 tools changer CAPTO C4.
 Weight Kg 130.*



TFS 41304
 Testa ad angolo di fresatura con
 mandrino ribaltato. Fresa $\phi 200$.
 Peso Kg 327,5.
*Reverse milling angle head.
 Milling tool $\phi 200$.
 Weight Kg 327,5.*



TAF 37503
 Doppia testa ad angolo di
 foratura.
Twin drilling angle head.



TFS 34004
 Testa ad angolo di foratura
 a 3 mandrini a 120°.
 Peso Kg 18.
*Drilling angle head, n 3
 spindles at 120°.
 Weight Kg 18.*

Teste ad angolo speciali Special angle heads

TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
Accessories

Appendice tecnica
Technical supplement



TAS 41504
Testa ad angolo mandrino di fresatura. Peso Kg 338.
Twin milling angle head. Weight Kg 338.

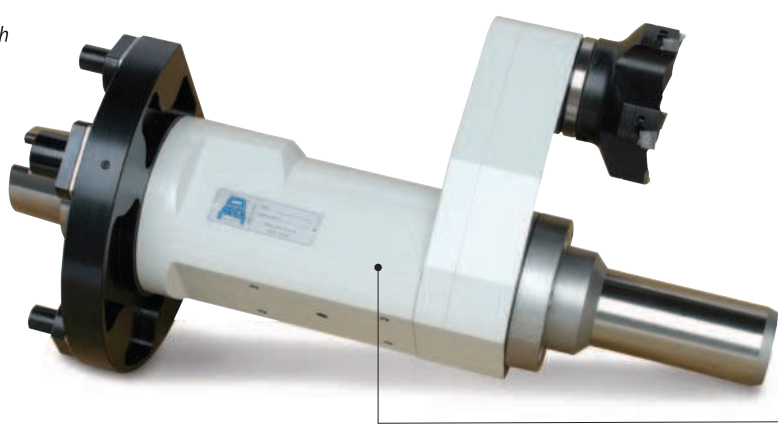


TFS 33303
Testa ad angolo disassata per foratura. Peso Kg 9,4.
Angle head with shift drilling spindle. Weight Kg 9,4.

TFS 28603
Testa di fresatura con n°4 frese a disco $\phi 125$. Peso Kg 218.
Milling head, n°4 milling disc cutter $\phi 125$. Weight Kg 218.



TFS 33503
Testa ad angolo di lucidatura 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 12005
Testa ad angolo disassata per fresature $\phi 150$. Peso Kg 48.
Shift spindle angle head, milling tools $\phi 150$. Weight Kg 48.



moltiplicatori di giri spindle speeders

I moltiplicatori di giri serie "MO" sono stati studiati e definiti con l'intento di offrire un prodotto che possa assicurare la massima affidabilità e precisione nelle operazioni di fresatura e foratura. Dalla progettazione al controllo statico e dinamico del prodotto finito, i nostri moltiplicatori sfruttano le più avanzate conoscenze tecniche e tecnologiche.

- Giri max. in continuo 22.000 (oltre a richiesta)
- Utilizzati specialmente in operazioni di finitura
- Possibilità di montaggio manuale o automatico
- Consentono alla macchina di ruotare a bassi regimi di giri
- Possibilità di utilizzare utensili in metallo duro

La costruzione compatta, i componenti in acciaio trattato termicamente, gli ingranaggi rettificati sull'evolvente permettono la trasmissione di potenze elevate con ottimi livelli di silenziosità. Il mandrino è supportato da cuscinetti a sfere di precisione a contatto obliquo precaricati che gli conferiscono un'elevata rigidità e precisione di rotazione entro mm 0.01

- Due o tre ingranaggi satelliti per elevate potenze trasmissibili
- Attacco utensile speciale a richiesta (Komet, DIN 1835, ecc...)
- Adduzione liquido refrigerante attraverso il centro utensile a richiesta
- Attacco macchina a richiesta (Cono Morse, DIN 69880, ecc...)
- Perno antirotante intercambiabile e perciò personalizzabile dal cliente

I moltiplicatori possono essere montati su macchine tradizionali o con cambio utensile automatico. La lubrificazione è assicurata con grasso a base sintetica a lunga vita che non richiede praticamente interventi di manutenzione. Il certificato di collaudo che troverete allegato ad ogni moltiplicatore garantisce la qualità del prodotto. Robustezza, versatilità, facilità d'impiego e di manutenzione sono caratteristiche che hanno sempre contraddistinto la nostra produzione ed i moltiplicatori di giri ne sono una conferma.

The "MO" series of multipliers has been designed and developed to offer a product that ensures maximum reliability and precision in milling and drilling. From design to static and dynamic testing of the finished product, our multipliers utilise the most advanced technical and technological know-how.

- Max. 22,000 continuous revs (higher ratings on request)
- Used in particular for finishing operations
- Manual or automatic mounting option
- Allow the machine to rotate at low rpm
- Possibility of using hard metal tools

The compact construction, the heat-treated steel parts and the ground gears on the involute guarantee transmission of high power ratings with amazingly low noise levels. The spindle is supported by a set of preloaded precision ball bearings with oblique contact that ensure greater strength and rotation precision within 0.01 mm.

- Two or three planetary gears for high transmission power ratings
- Special tool attachment on request (Komet, DIN 1835, etc.)
- Coolant through the tool centre, on request
- Machine connection, on request (Morse Cone, DIN 69880 etc.)
- Interchangeable anti-rotation pin which can therefore be customised by the buyer

The MO series of multispidles can be mounted on traditional machines and on machines with automatic tool change.

The MO series of multispidles is lubricated with a long-life synthetic grease that is practically maintenance free.

The test certificate attached to each multiplier guarantees the quality of the product.

Our products have always stood out for their sturdiness, flexibility and easy use and maintenance and the MO series of multispidles is additional proof of such outstanding features.

DIN 69871/ANSI B5.50 CAT	2-2
DIN 2080/ANSI B5.18 NMTB.....	2-3
MAS 403 BT.....	2-4
DIN 69893.....	2-5
Soluzioni speciali/Special executions.....	2-6
Stop Block/Stop Block	2-7
Adattatore/Adapter	2-7
Collaudo/Test result.....	2-8
Galleria fotografica/Photographic gallery	2-9
Accessori/Accessories	8-1

TA

MO

HT

VH

TSI/TSX

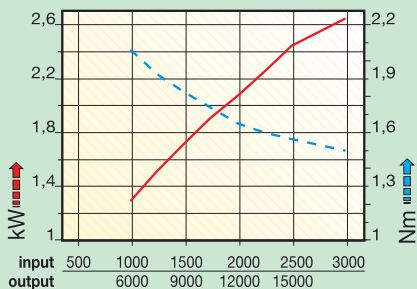
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MT-TC-TC3

Accessori
Accessories

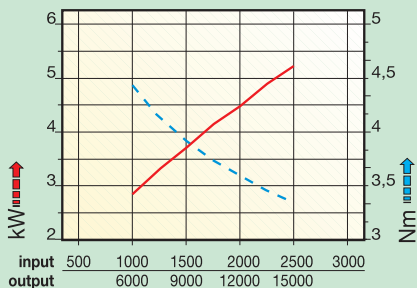
Appendice tecnica
Technical supplement

MO10



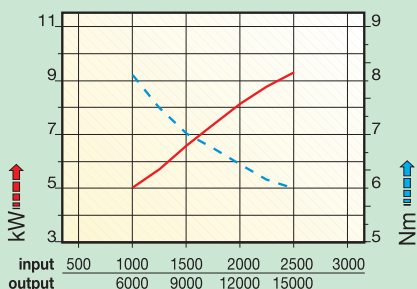
Giri/1' - rpm

MO13



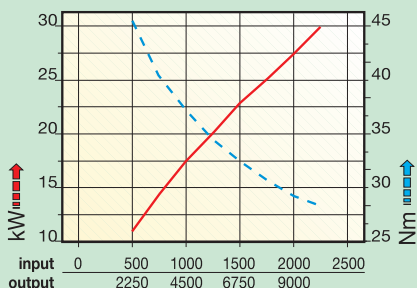
Giri/1' - rpm

MO16

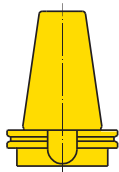


Giri/1' - rpm

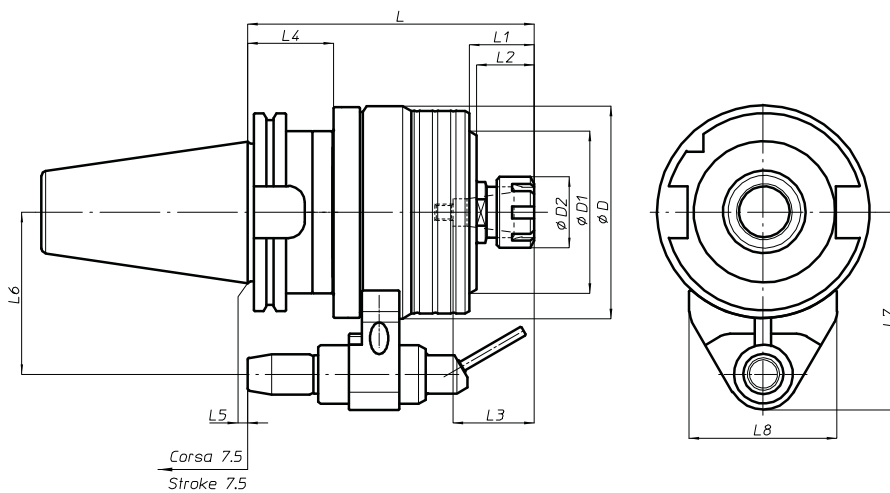
MO25.4



Giri/1' - rpm



DIN 69871
ANSI B5.50 CAT

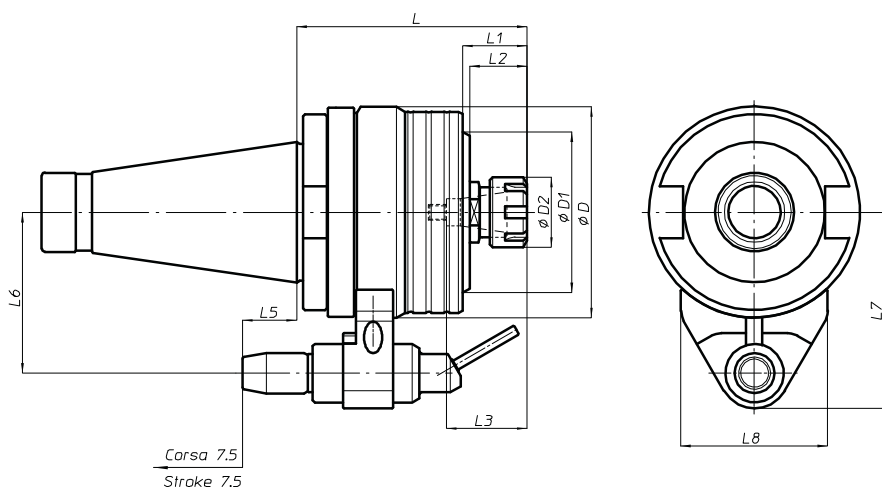
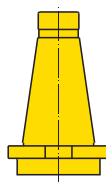


Modello Type	MO 10				MO 13			MO 16		MO 25.4	
Cono Shank DIN	30	40	45	50	40	45	50	45	50	50	
Cono Shank CAT	40		50		40	50		50		50	
Rapporto Ratio	1 - 6				1 - 6			1 - 6		1 - 4,5	
N. giri max RPM	22.000 *				15.000 *			12.000 *		10.000 *	
Peso Weight	3,3	3,7	4,3	6,5	5,8	6,7	8	9	10	20	
Pinza Collet	ER 16 max Ø 10				ER 20 max Ø 13			ER 25 max Ø 16		ER 40 max Ø 30	
D	84				105			123		169	
D1	65				80			100		120	
D2	24				35			42		63	
L	132				141,5			155,5		196	
L1	32				32			34		67,5	
L2	28				28,5			29		40,5	
L3	36,5				40			43		64	
L4	35				35	42		35	42		35
L5	0				0			0		0	
L6	65	80			80			80		110	
L7	82,5	97,5	97,5		97,5			97,5		127,5	
L8	71				73			75		75	
Forza assiale Axial thrust	60 daN				90 daN			110 daN		300 daN	

* n° giri max per lavorazioni continuative
speed at 100% duty cycle

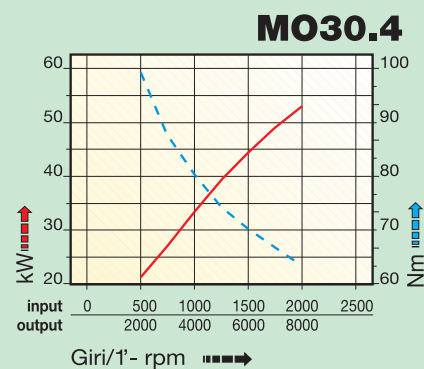
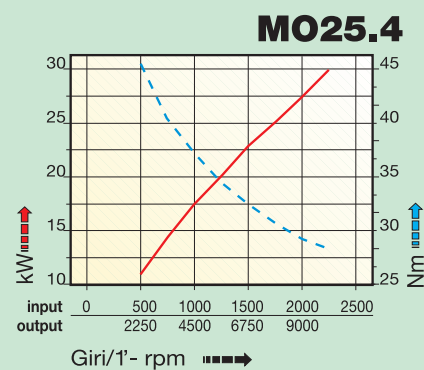
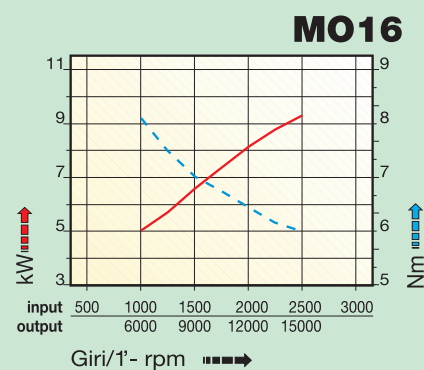
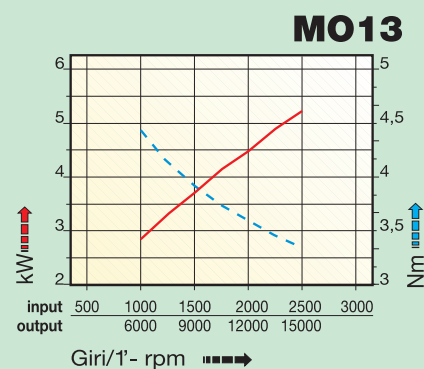
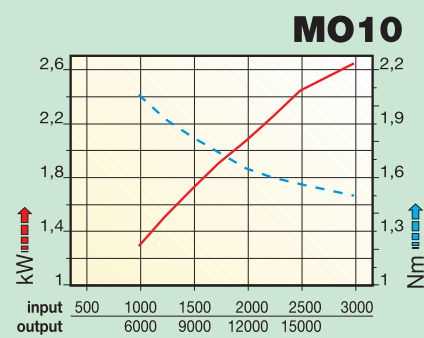
DIN 2080

ANSI B5.18 NMTB



Modello Type	MO 10			MO 13			MO 16			MO 25.4	MO 30.4	
Cono Shank DIN	40	45	50	40	45	50	40	45	50	50	50	
Cono Shank NMTB	40	50	40	50	50	50	50	50	50	50		
Rapporto Ratio	1 - 6			1 - 6			1 - 6			1 - 4,5	1 - 4	
N. giri max RPM	22.000 *			15.000 *			12.000 *			10.000 *	8.000 *	
Peso Weight	3	3	4,8	6,3	5	6	7,3	7,4	8	9,3	20	30
Pinza Collet	ER 16 max Ø 10			ER 20 max Ø 13			ER 25 max Ø 16			ER 40 max Ø 30	ER 50 max Ø 34	
D	84			105			123			169	185	
D1	65			80			100			120	114	
D2	24			35			42			63	78	
L	110	102	105	105	111	114,5	125	128,5	184,5	236		
L1	32			32			34			67,5	85,5	
L2	28			28,5			29			40,5	60,5	
L3	36,5			40			43			64	90	
L5	14,5	11,5	13	9,5	15	12	12	12	12	12		
L6	65	80	80	80	80	80	110	110	110	110		
L7	82,5	97,5	97,5	97,5	97,5	97,5	127,5	127,5	127,5	127,5		
L8	71			73			75			75	75	
Forza assiale Axial thrust	60 daN			90 daN			110 daN			300 daN	400 daN	

* n° giri max per lavorazioni continuative
speed at 100% duty cycle



TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
Accessories

Appendice tecnica
Technical supplement

TA

MO

HT

VH

TSI/TSX

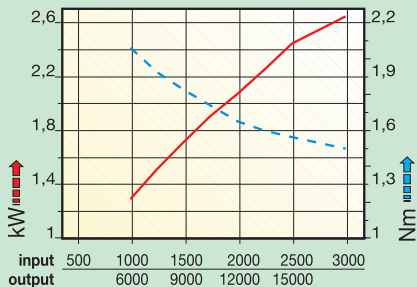
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MT-TC-TC3

Accessori
Accessories

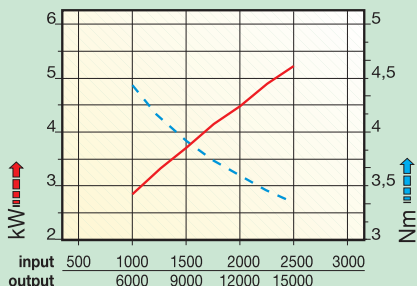
Appendice tecnica
Technical supplement

MO10



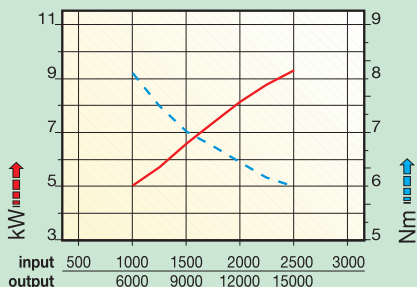
Giri/1' - rpm

MO13



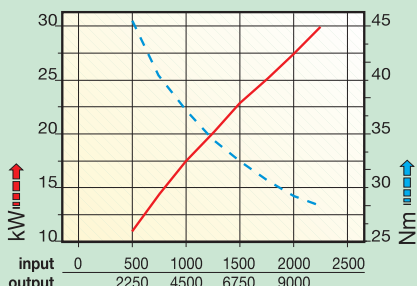
Giri/1' - rpm

MO16

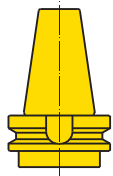


Giri/1' - rpm

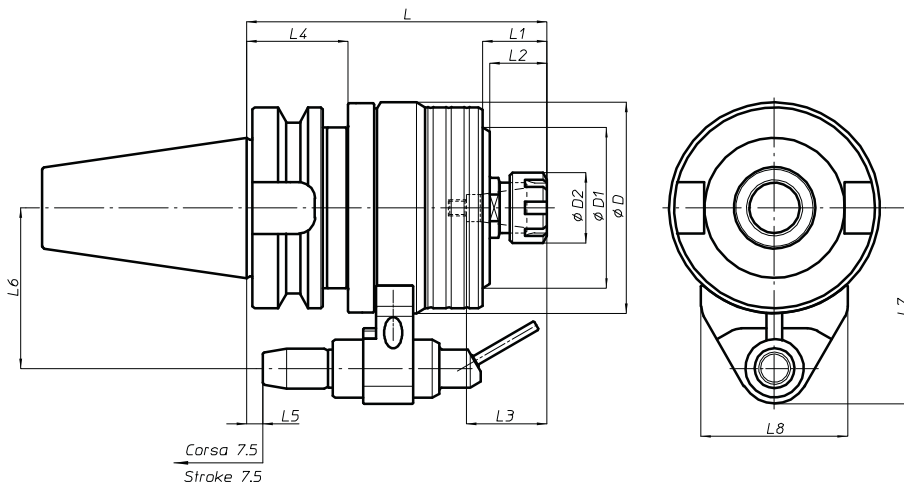
MO25.4



Giri/1' - rpm



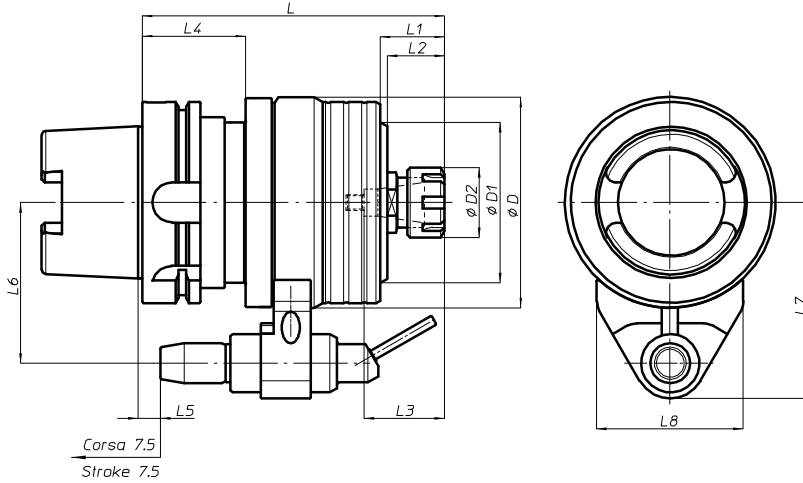
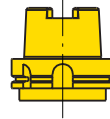
MAS 403 BT



Modello Type	MO 10			MO 13		MO 16	MO 25.4
Cono Shank	30	40	50	40	50	50	50
Rapporto Ratio	1 - 6			1 - 6		1 - 6	1 - 4,5
N. giri max RPM	22.000 *			15.000 *		12.000 *	10.000 *
Peso Weight	3,3	3,7	6,5	5,8	8	10	20
Pinza Collet	ER 16 max Ø 10			ER 20 max Ø 13		ER 25 max Ø 16	ER 40 max Ø 30
D	84			105		123	169
D1	65			80		100	120
D2	24			35		42	63
L	132	132	40	141,5	149,5	163,5	202
L1	32			32		34	67,5
L2	28			28,5		29	40,5
L3	36,5			40		43	64
L4	42,5	42,5	50,5	34,5	50,5	41	41
L5	0			8		7,5	6
L6	65			80		80	110
L7	82,5	97,5		97,5		97,5	127,5
L8	71			73		75	75
Forza assiale Axial thrust	60 daN			90 daN		110 daN	300 daN

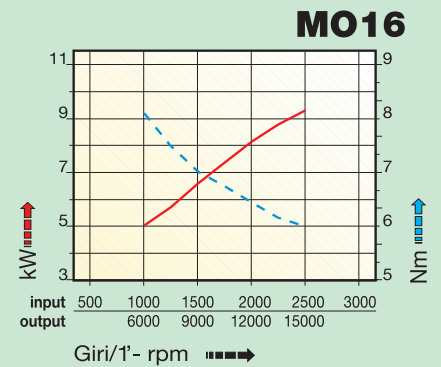
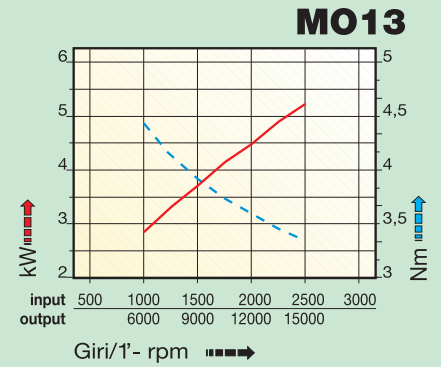
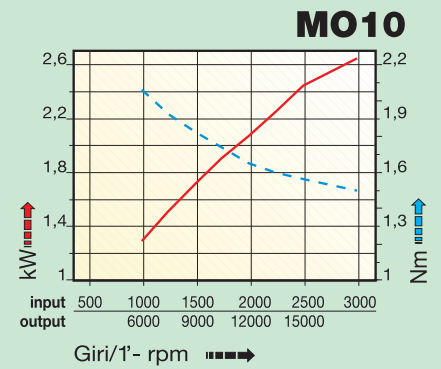
* n° giri max per lavorazioni continuative
speed at 100% duty cycle

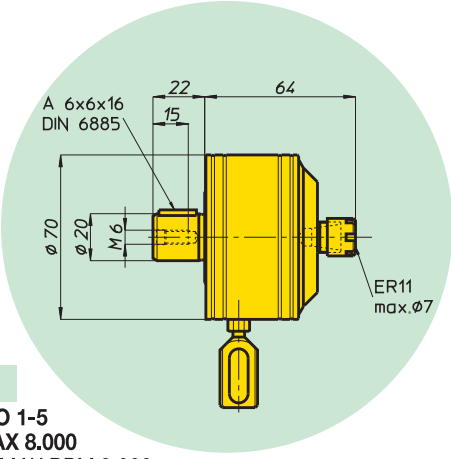
DIN 69893



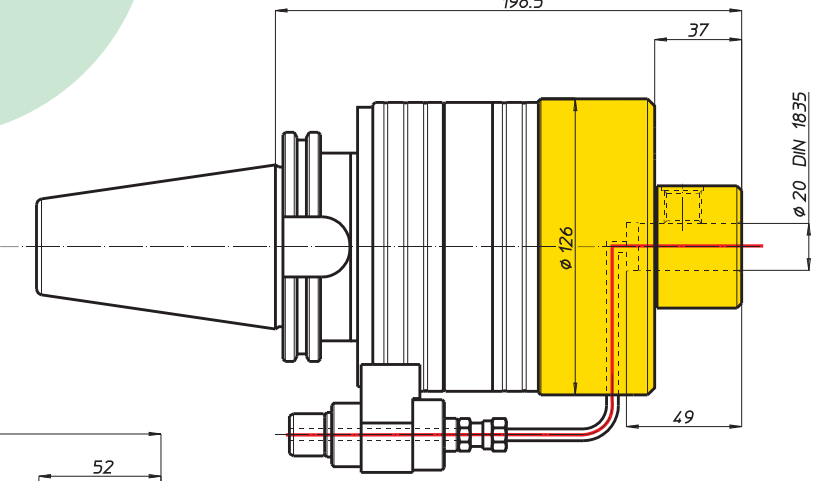
Modello Type	MO 10			MO 13			MO 16	
Cono Shank	63	80	100	63	80	100	80	100
Rapporto Ratio	1 - 6			1 - 6			1 - 6	
N. giri max RPM	22.000 *			15.000 *			12.000 *	
Peso Weight	3,3	3,7	6,5	5,8	8		10	
Pinza Collet	ER 16 max ϕ 10			ER 20 max ϕ 13			ER 25 max ϕ 16	
D	84			105			123	
D1	65			80			85	
D2	24			35			42	
L	141			150,5			164,5	
L1	32			32			44	
L2	28			28,5			32,5	
L3	36,5			40			52	
L4	42			42	51,5		56	
L5	9			9			8,5	
L6	65	80		80			80	
L7	82,5	97,5		97,5			97,5	
L8	71			73			75	
Forza assiale Axial thrust	60 daN			90 daN			110 daN	

* n° giri max per lavorazioni continuative
speed at 100% duty cycle

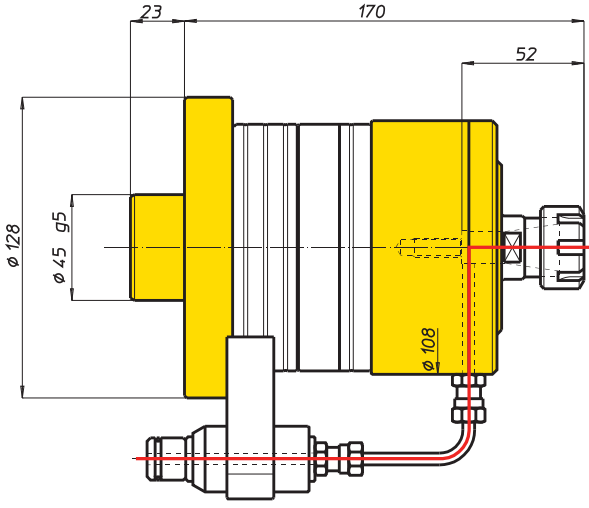




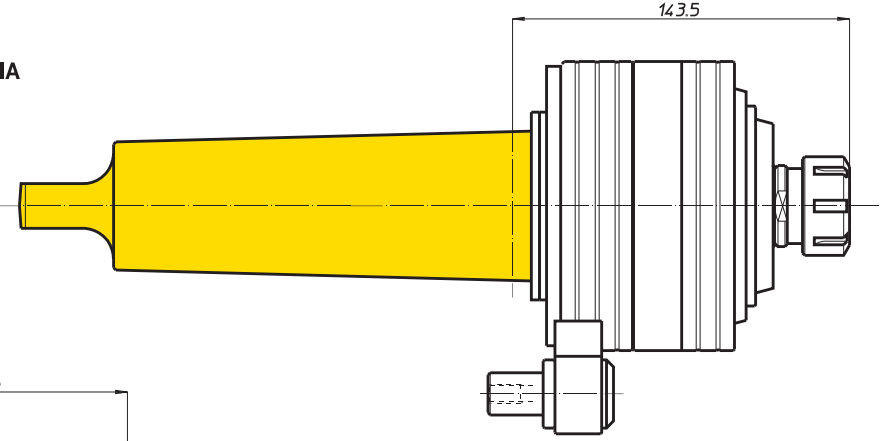
MO 7.5
RAPPORTO 1-5
N° GIRI MAX 8.000
RATIO 1-5 MAX RPM 8.000



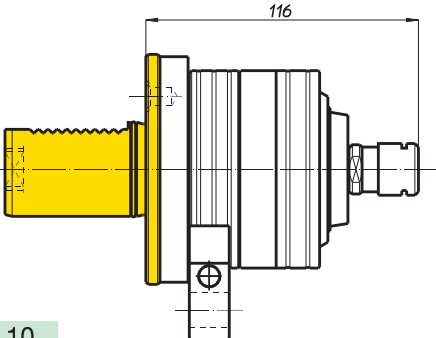
MO 16
CON ATTACCO DIN 69871- 50,
SERRAGGIO UTENSILE DIN 1835 Ø 20
E LIQUIDO REFRIGERANTE PASSANTE
PER IL CENTRO
WITH SHANK DIN 69871- 50
CONNECTING TOOLS DIN 1835 Ø 20
WITH INTERNAL COOLING



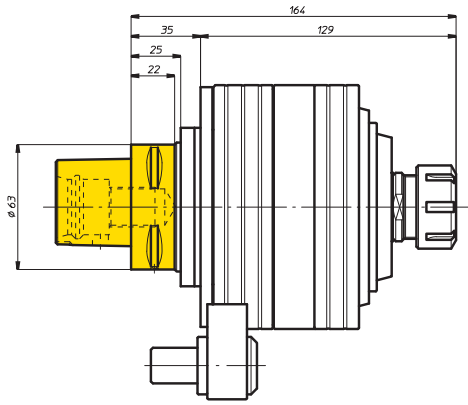
MO 13
CON ATTACCO SPECIALE A FLANGIA
E LIQUIDO REFRIGERANTE
PASSANTE PER IL CENTRO
WITH SPECIAL SHAFT
AND INTERNAL COOLING



MO 16
CON ATTACCO CONO MORSE 6 DIN 228
WITH SHANK MT 6 DIN 228

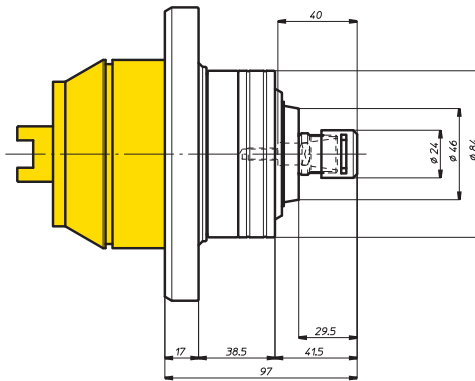


MO 10
CON ATTACCO DIN 69880 - 40 x 63
WITH SHANK DIN 69880 - 40 x 63



MO 16

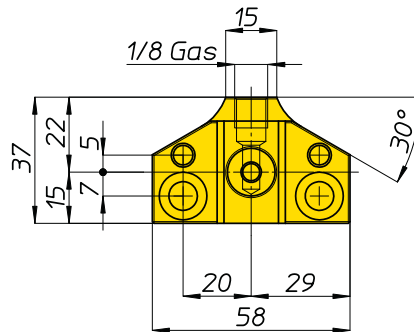
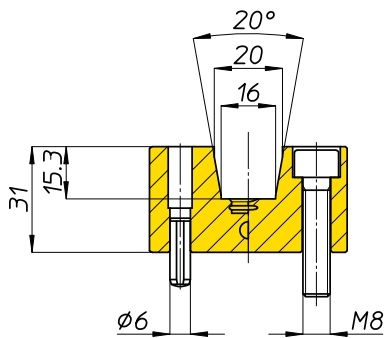
CON ATTACCO CAPTO C6
WITH SHANK CAPTO C6



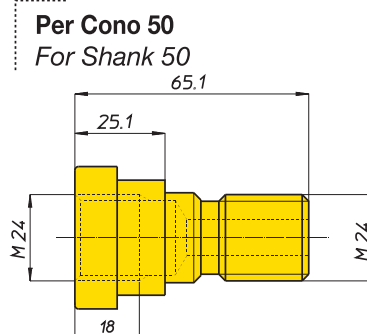
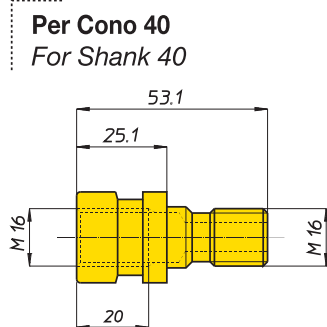
MO 10

CON ATTACCO SPECIALE PER TORRETTA A REVOLVER
WITH SPECIAL CONNECTION TO REVOLVER HEAD

STOP BLOCK (cod. 630104)



ADATTATORE DA DIN 69871 A DIN 2080 (o Maho System)
ADAPTER FROM DIN 69871 TO DIN 2080 (o Maho System)



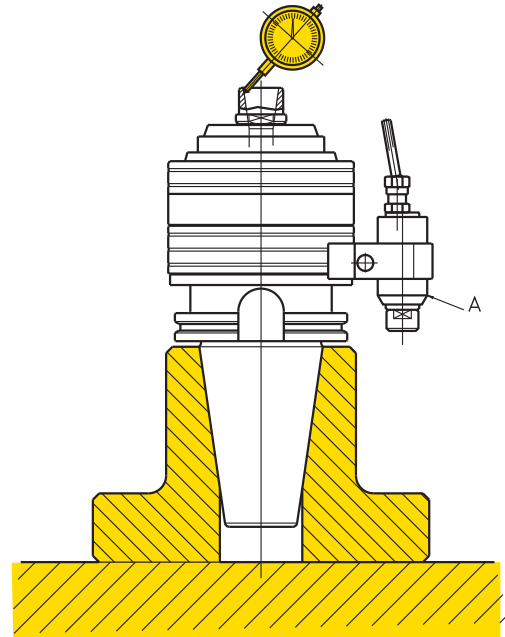
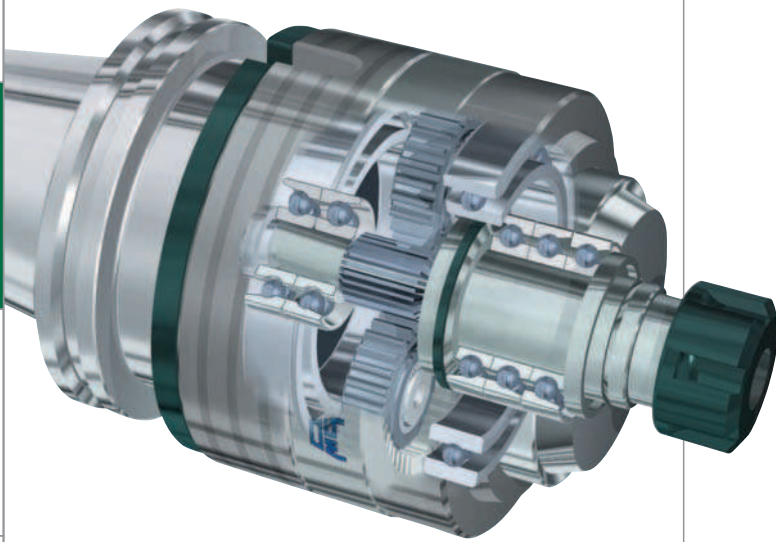


Fig. 1

COLLAUDO

Ogni moltiplicatore di giri ha allegato il proprio certificato di collaudo dove sono riportate le proprie caratteristiche tecniche, il numero di matricola, i risultati ottenuti dai test eseguiti sul nostro banco prova BP03, il valore della concentricità tra il cono e la sede pinza il cui valore massimo è mm 0.01. Per verificare il valore della concentricità occorre disporre il moltiplicatore come in fig. 1, fermare il perno A e ruotare il cono. Il valore letto sul comparatore millesimale è la concentricità tra l'asse del cono e l'asse del mandrino.

TEST RESULT

Every spindle speeder has his test certificate in which there are the technical characteristics, the serial number, the results of the tests made on our BP03 testing table, the concentricity value between the shank and the collet (max. value 0,01 mm). To verify the concentricity value it is necessary to have the spindle speeder as from picture N°. 1, stopping the pin "A" and rotating the shank. The value on the mm comparator is the concentricity between the shank axe and the spindle axe.

CERTIFICATO DI COLLAUDO

BANCO PROVA BP03

Data Prova: 10/07/2003

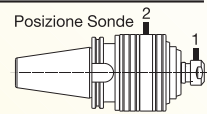
Articolo: MO 10.6

Matricola: 1315

N° Max Giri Uscita: 18000

Rapporto Entrata-Uscita: 1-6

N° Giri Uscita = N° Giri Entrata * Rapporto



Prova	N° Giri Entrata	Temp.(°C) Sonda 1	Temp.(°C) Sonda 2	Temp. Ambiente
1	1000	45,40	43,20	24,60
2	1500	40,80	36,80	24,60
3	2000	44,20	42,00	24,80
4	2500	48,80	42,00	24,80
5	3000	49,20	38,60	25,00

Concentricità Max Cono - Mandrino: 0,008

TEST RESULT

TEST STAND BP03

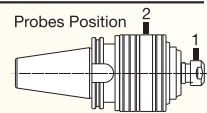
Test Date : 10/07/2003

Item: MO 10.6 Code: 1315

Max Output RPM: 18000

Ratio Input-Output: 1-6

Output RPM = Input RPM * Ratio



Test	Input RPM	Temp.(°C) Probe 1	Temp.(°C) Probe 2	Environment Temp.
1	1000	45,40	43,20	24,60
2	1500	40,80	36,80	24,60
3	2000	44,20	42,00	24,80
4	2500	48,80	42,00	24,80
5	3000	49,20	38,60	25,00

Max Runout between Taper and Spindle: 0,008

Galleria fotografica Photographic gallery

TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3

Accessori
Accessories

Appendice tecnica
Technical supplement

Moltiplicatore di giri M010
M010 spindle speeder



Moltiplicatore di giri M013
M013 spindle speeder



Moltiplicatore di giri M016
M016 spindle speeder



Moltiplicatore di giri M025.4
M025.4 spindle speeder



Moltiplicatore di giri M030.4
M030.4 spindle speeder

TA

MO

HT

VH

TSI/TSX

T

MT-TC-TC3



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