

Made in Italy

Sistemi di foratura
all'anil
di foratura

EXA *EX*extended *Auto*matic

MAIN FEATURES

Ratio: 1-1

Spindle option: HSK, BT, DUAL CONTACT

Front and back spindle pressurized

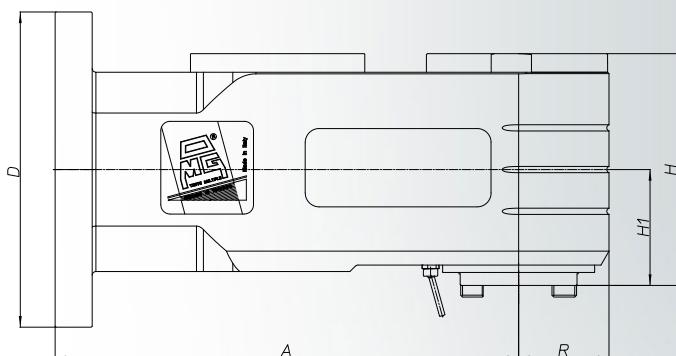
Front spindle coolant by nozzle

Body in cast iron made by bar material

ATC: automatic tool change

Optional: coolant through, temperature probe

Working position:  



TYPE	EXA 40-400	EXA 40-600	EXA 50-500	EXA 50-700
Spindle Output	40	40	50	50
Torque (Nm)	450	450	1050	1050
RPM	3000	3000	2500	2500
A	400	600	500	700
D	340	340	340	340
R	65	65	97,5	97,5
H	185*	185*	250	250
H1	90	90	125	125
Weight (kg)	75	95	175	195

*with DIN69893-HSK-63. With DIN69871-190

The pictures are the customization of our standard products designed for the costumer.

EXM *EX*extended *Man*ual

MAIN FEATURES

Ratio: 1-1

Spindle option: HSK, BT, DUAL CONTACT

Front and back spindle pressurized

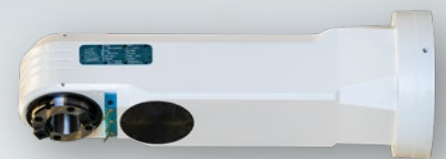
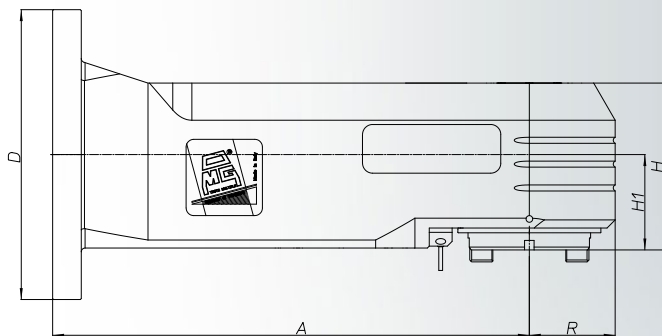
Front spindle coolant by nozzle

Body in cast iron made by bar material

MTC: manual tool change

Optional: coolant through, temperature probe

Working position:  



TYPE	EXM 40-400	EXM 40-600	EXM 50-500	EXM 50-700
Spindle Output	40	40	50	50
Torque (Nm)	350	350	630	630
RPM	3000	3000	2500	2500
A	400	600	500	700
D	304	304	304	304
R	60	60	90	90
H	148	148	175	175
H1	90	90	100	100
Weight (kg)	57	73	112	145

The pictures are the customization of our standard products designed for the costumer.

EXMO *EX*extended *M*anual *O*ffset

MAIN FEATURES

Ratio: 1-1

Spindle option: HSK, BT, DUAL CONTACT

Front and back spindle pressurized

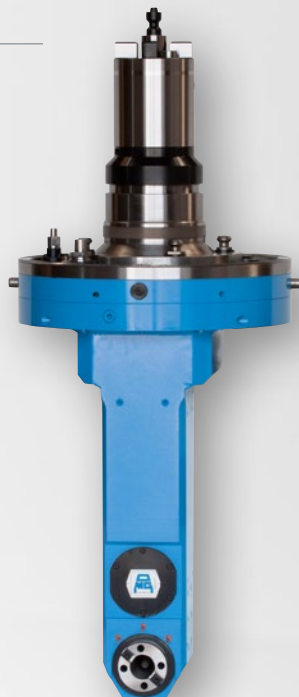
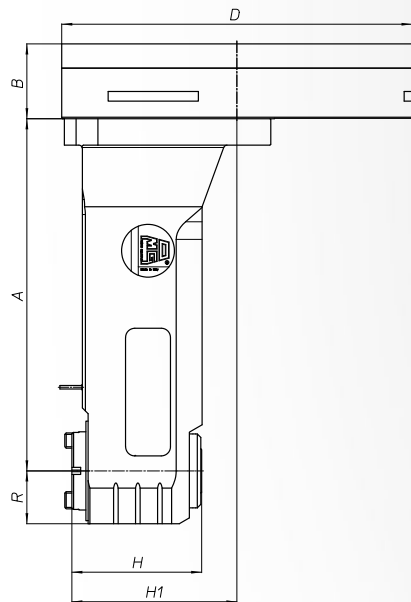
Front spindle coolant by nozzle

Body in cast iron made by bar material

MTC: manual tool change

Optional: coolant through, temperature probe

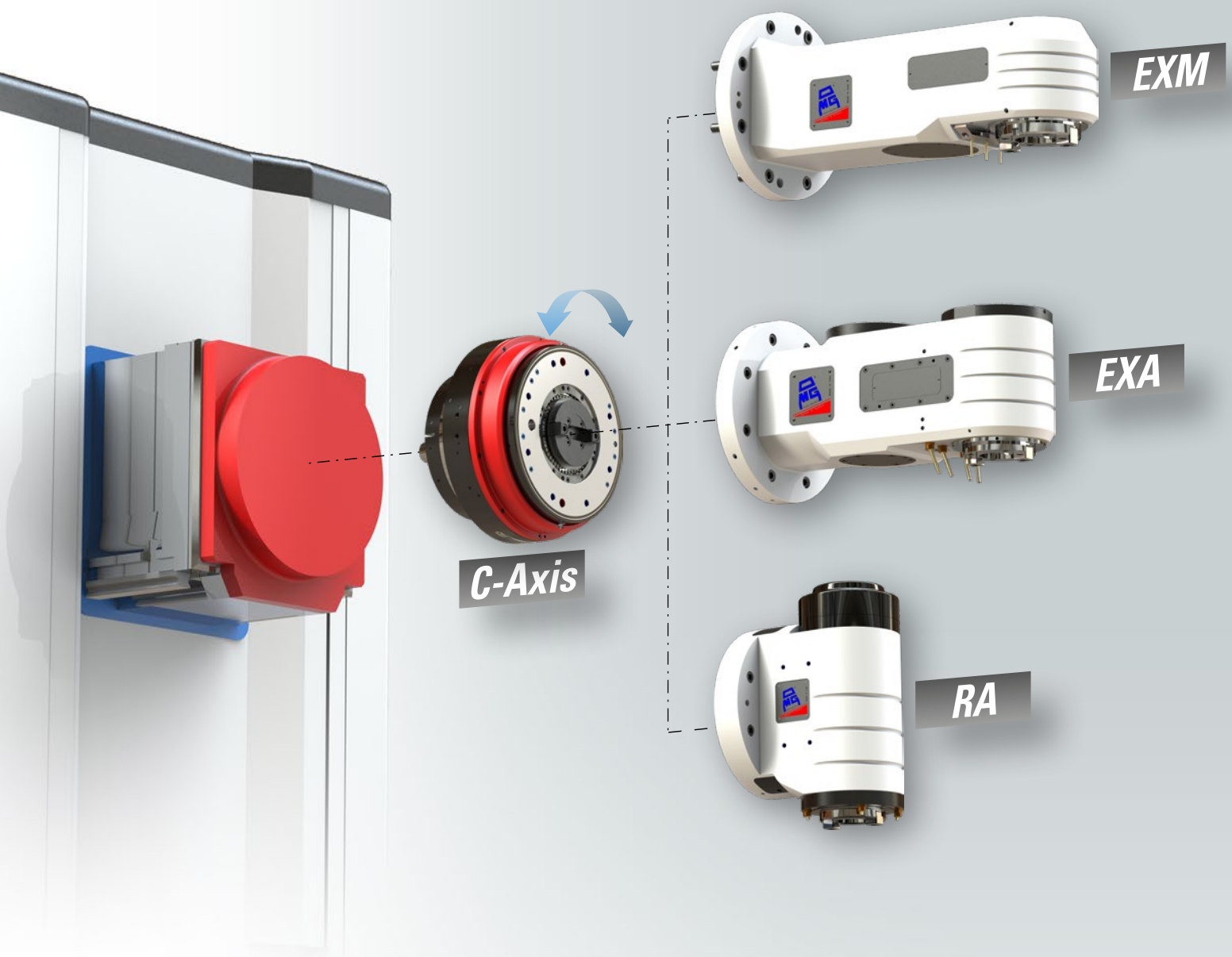
Working position:  



TYPE	EXM 40-400	EXM 40-600	EXM 50-500	EXM 50-700
Spindle Output	40	40	50	50
Torque (Nm)	350	350	630	630
RPM	3000	3000	2500	2500
A	400	600	500	700
D	400	400	450	500
R	60	60	90	90
H	148	148	175	175
H1	188	188	197,5	197,5
Weight (kg)	140	156	215	250

The pictures are the customization of our standard products designed for the costumer.

MS **Modular System**



With the modular system different combinations are possible:

- **C Axis:** Manual, with Hirth crown or with high precision worm screw
- **EXM:** slim design Angle Head with manual tool change
- **EXA:** slim design Angle Head with automatic tool change
- **RA:** Angle Head with automatic tool change

The working position can be both horizontal and vertical. The components can be reused both in other applications and on different machines.

FA *Fork Automatic*

MAIN FEATURES

Ratio: 1-1

Spindle option: HSK, BT, CAPTO, DUAL CONTACT

Front spindle pressurized

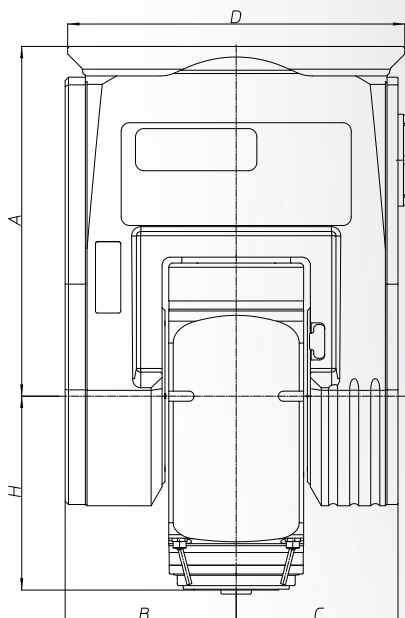
Front spindle coolant by nozzle

Cast iron body

ATC: automatic tool change

Optional: coolant through, temperature probe

Working position:  



TYPE	FA160	FA200	FA250	
Spindle Output	50	50	50	
Spindle Torque (Nm)	600	1200	2700	
RPM	3000	2500	2000	
A Axis Torque (Nm)	750	1270	3800	
A Axis Stroke	±115°	±120°	±120°	
A	400	455	550	
B	192	241	310	
C	203	241	330	
D	400	500	600	
H	230	230	260	
Weight (kg)	350	530	1060	

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FM Fork Manual

MAIN FEATURES

Ratio: 1-1

Spindle option: HSK, BT, CAPTO, DUAL CONTACT

Manual spindle axis rotation

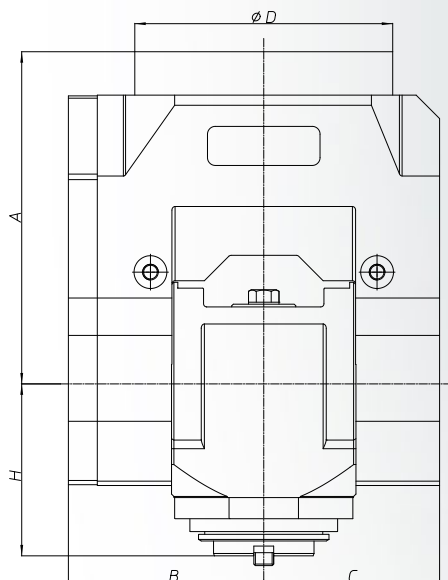
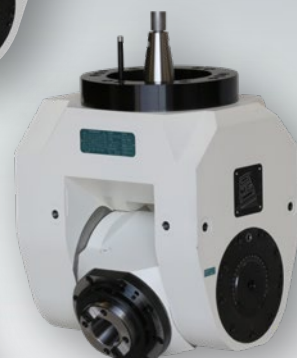
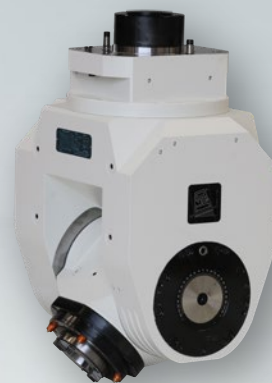
Positioning by Hirth crown at 1° or 2,5°

Cast iron body

MTC: manual tool change

Optional: coolant through

Working position:  



TYPE	FM 235	FM 350		
Spindle Output	50	50 (60)		
Spindle Torque (Nm)	1500	4900		
RPM	2000	1500		
A Axis Torque (Nm)	1270	85000		
A Axis Stroke	±120°	+90° -2°		
A	380	450		
B	250	320		
C	225	345		
D	400	560		
H	220	375		
Weight (kg)	480	1700		

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FT Fork Turning

MAIN FEATURES

Non rotating tool

Spindle option: HSK, KM

Spindle axis clamped by Hirth crown

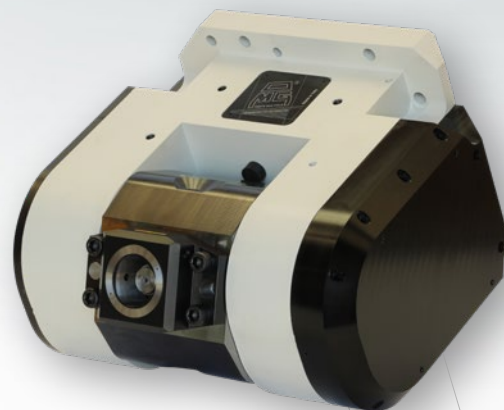
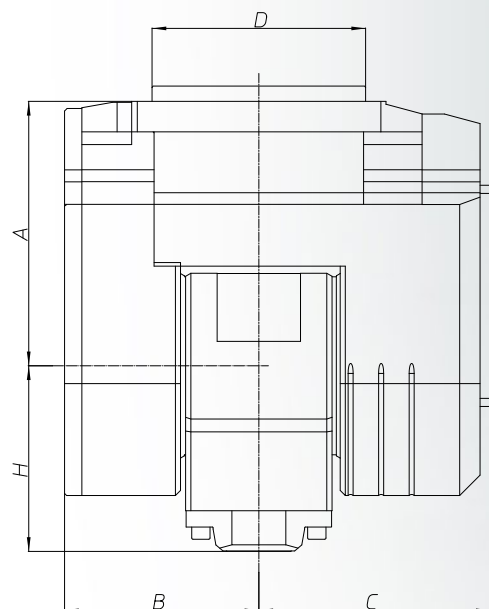
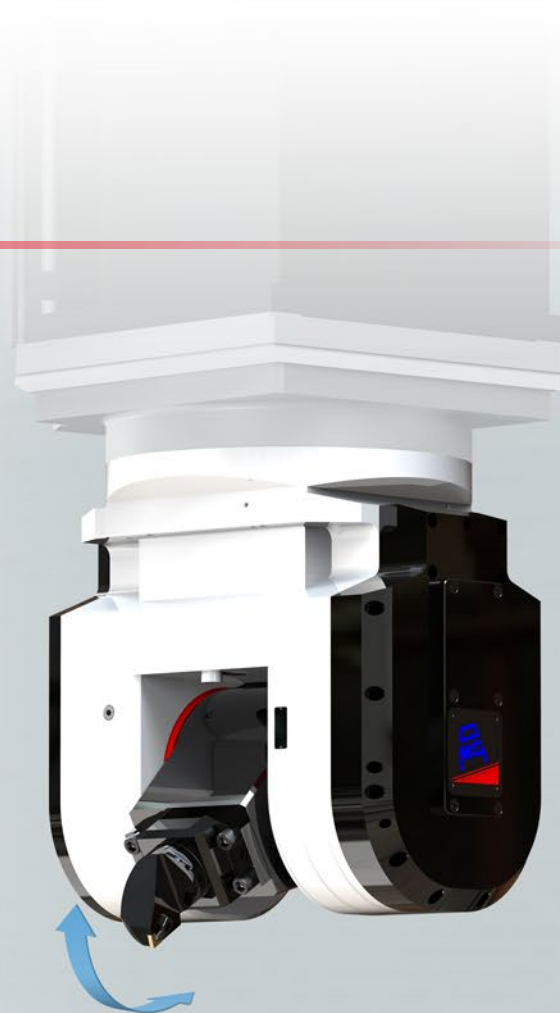
Tilting axis by servomotor

Steel body

ATC: automatic tool change

Optional: coolant through

Working position: 



TYPE	FT 10	FT 30		
Spindle Output	Capto® C6	Capto® C6		
Tangential Thrust (kN)	10	34		
A Axis Stroke	±90°	±105°		
A	230	260		
B	168	191		
C	195	218		
D	ø 250	ø 300		
H	130	182		
Weight (kg)	110	210		

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MS *Modular System*



With the modular system different combinations are possible:

- **C Axis:** Manual, with Hirth crown or with high precision worm screw
- **T1A:** Tilting Automatic Angle Head, automatic tool change and spindle axis rotation
- **FA:** Fork Automatic Angle Head, automatic tool change and spindle axis rotation
- **RA:** Angle Head with automatic tool change

The working position can be both horizontal and vertical. The components can be reused both in other applications and on different machines.

RA *Right Angle Head*

MAIN FEATURES

Ratio: 1-1

Spindle option: HSK, BT, DUAL CONTACT

Front spindle pressurized

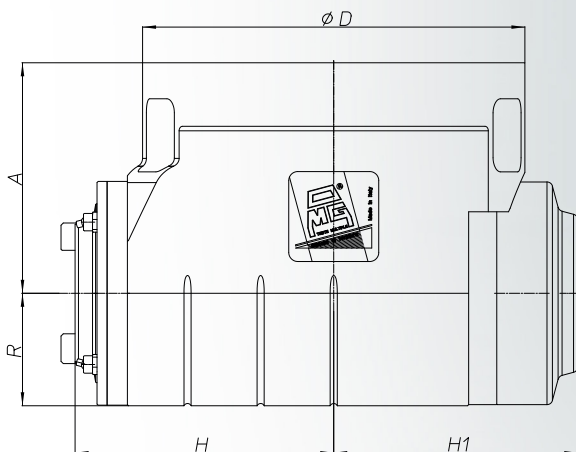
Front spindle coolant by nozzle

Body in cast iron made by bar material

ATC: automatic tool change

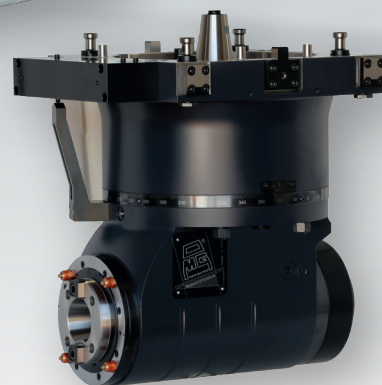
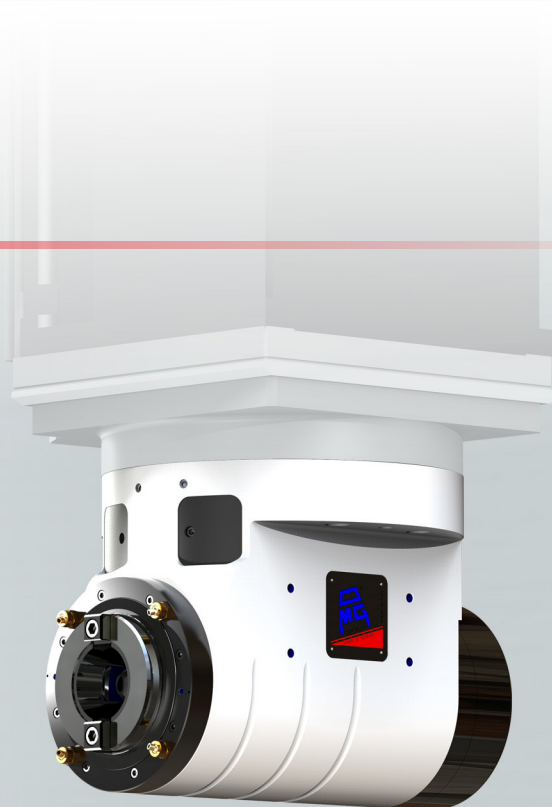
Optional: coolant through, temperature probe

Working position:  



TYPE	RA095	RA100	RA120	RA190
Spindle Output	50	50	50	60
Torque (Nm)	600	1200	2700	8500
RPM	3000	3000	2500	1500
A	198	205	250	345
D	340	340	400	670
R	82,5	100	122,5	195
H	230	230	260	400
H1	186,5	217	262	400
Weight (kg)	110	150	240	780

The pictures are the customization of our standard products designed for the costumer.



T1A *Tilting Automatic*

MAIN FEATURES

Ratio: 1-1

Spindle option: HSK, BT, DUAL CONTACT

Front spindle pressurized

Front spindle coolant by nozzle

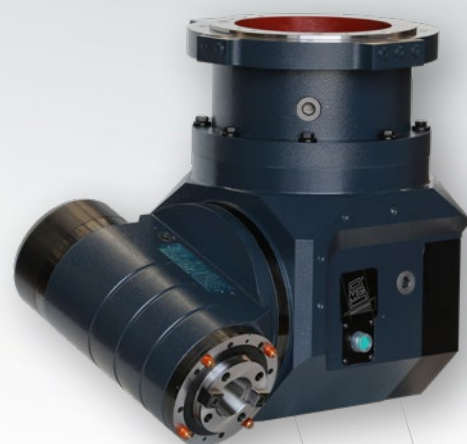
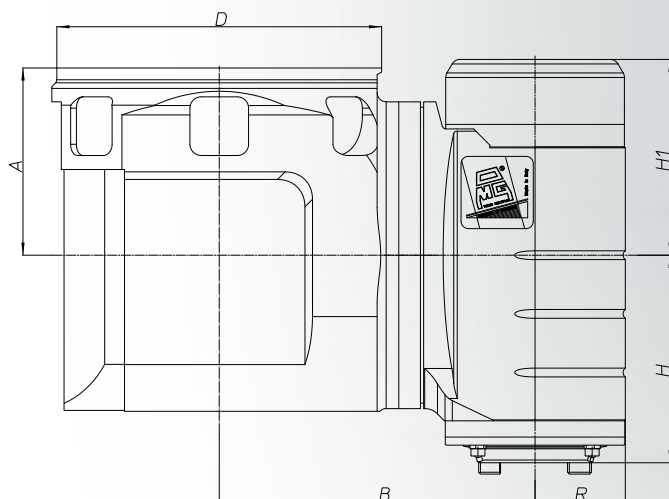
Tilting axis by machine spindle

Body in cast iron made by bar material

ATC: automatic tool change

Optional: coolant through

Working position:  



TYPE	T1A.095	T1A.100	T1A.120	
Spindle Output	50	50	50	
Torque (Nm)	600	1200	2700	
RPM	3000	3000	2500	
Tilting range	±125°	±125°	+125°	
A	190	207,5	420	
B	300	350	310	
D	340	360	400	
R	82,5	100	122,5	
H	230	230	260	
H1	186,5	217	262	
Weight (kg)	310	370	550	

The pictures are the customization of our standard products designed for the costumer.

TWA *Twin Automatic*

MAIN FEATURES

Ratio: 1-1

Spindle option: HSK, BT, CAPTO, DUAL CONTACT

Front spindle pressurized

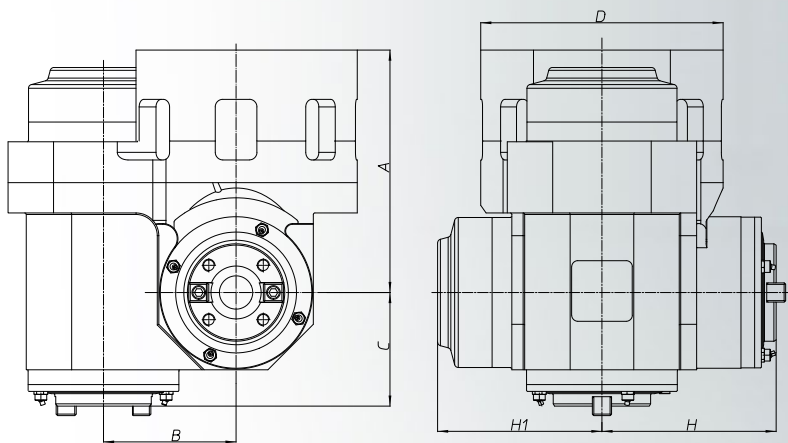
Front spindle coolant by nozzle

Cast iron body

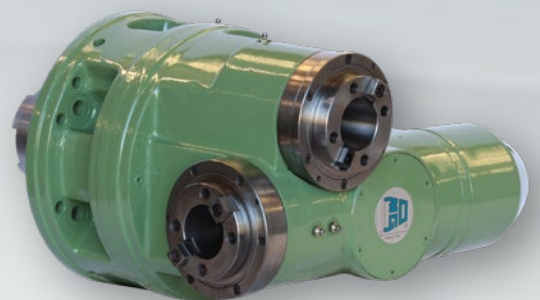
ATC: automatic tool change

Optional: coolant through, temperature probe

Working position:  



TYPE	TWA 065	TWA 100		
Spindle Output	40	50		
Spindle Torque (Nm)	600	1200		
RPM	3000	2500		
H1	260	217		
A	280	350		
B	110	175		
C	100	150		
D	290	320		
H	200	230		
Weight (kg)	130	280		



The pictures are the customization of our standard products designed for the costumer.

YA *Y-Axis*

MAIN FEATURES

Ratio: 1-1

Spindle option: HSK, BT, CAPTO, DUAL CONTACT

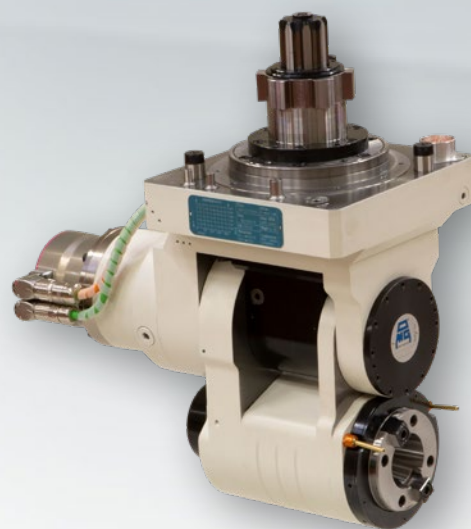
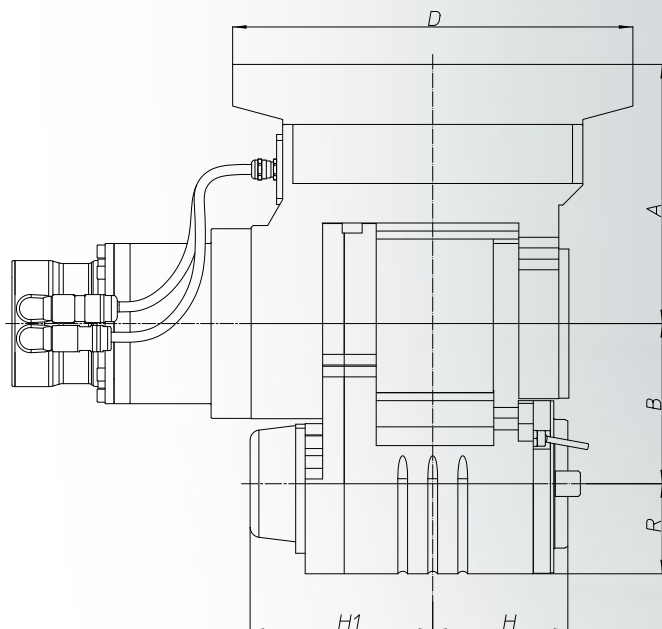
Front spindle coolant by nozzle

Steel body

ATC: automatic tool change

Optional: coolant through

Working position: 

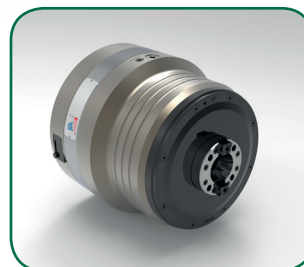
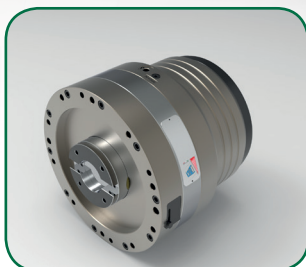
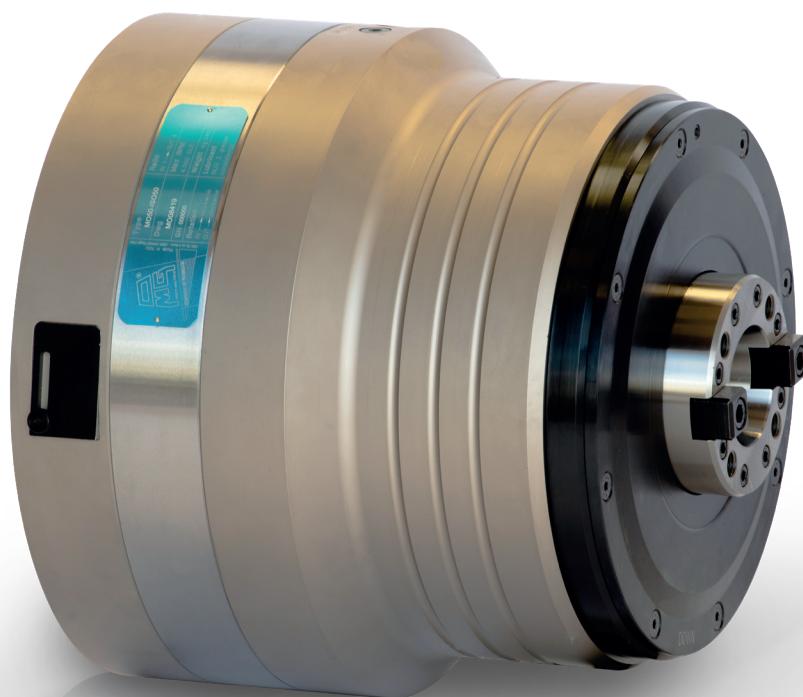


TYPE	YA 090			
Spindle Output	50			
Spindle Torque (Nm)	450			
RPM	2000			
Y Axis Stroke	±90°			
A	240			
B	160			
D	360			
H	135			
H1	182,5			
R	90			
Weight (kg)	185			

The pictures are the customization of our standard products designed for the costumer.



SPINDLE SPEEDER M050



- Tool holder DIN69871-A50
- Manual tool change
- Ratio I:O: 1-4
- Max output RPM: 4.500
- Weight Kg 240
- Machine connection by flange

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Made in Italy

Sistemi di foratura
ad alta precisione

CAH *C* Axis - *A*utomatic *H*irth *C*rown

MAIN FEATURES

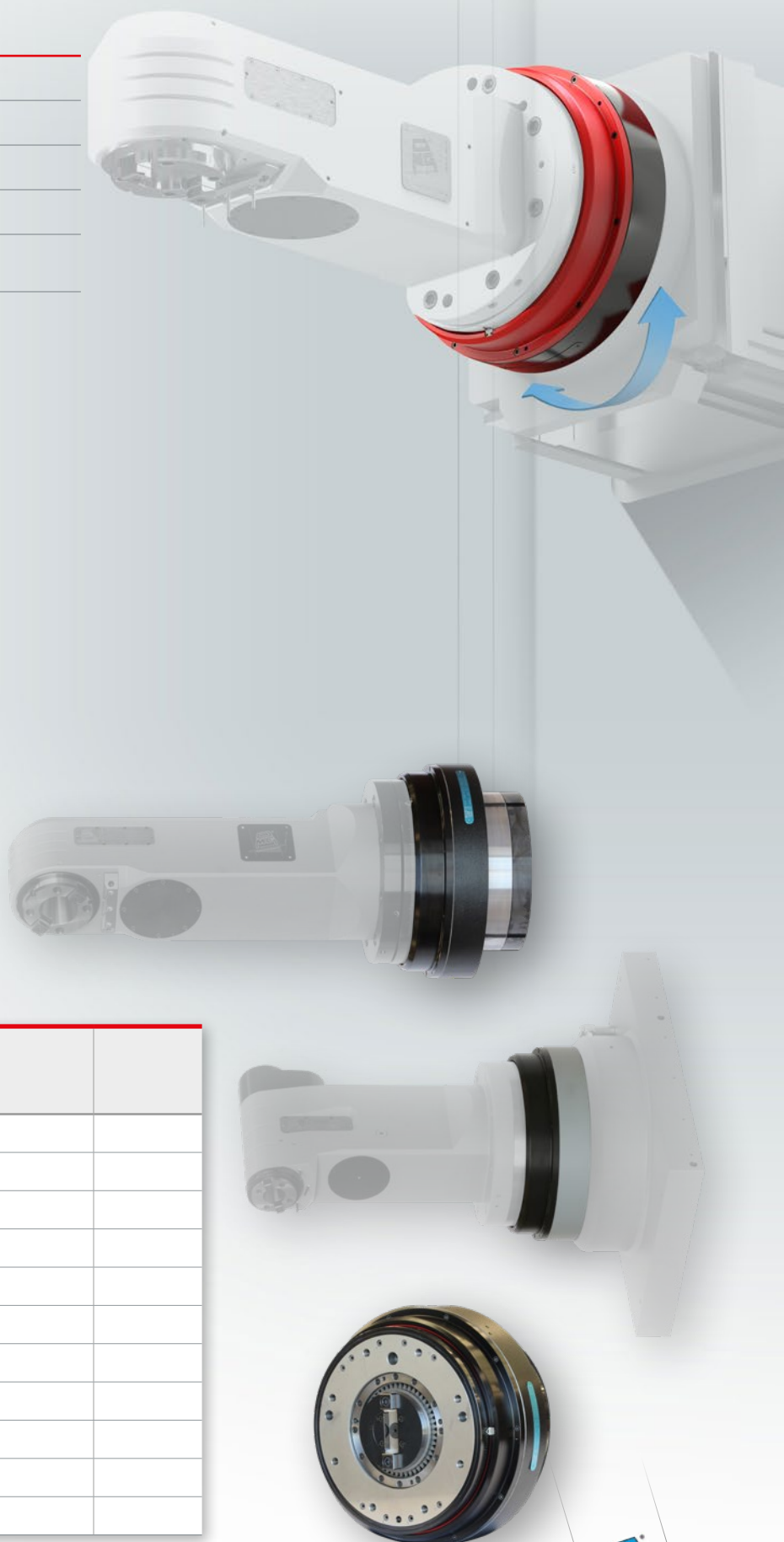
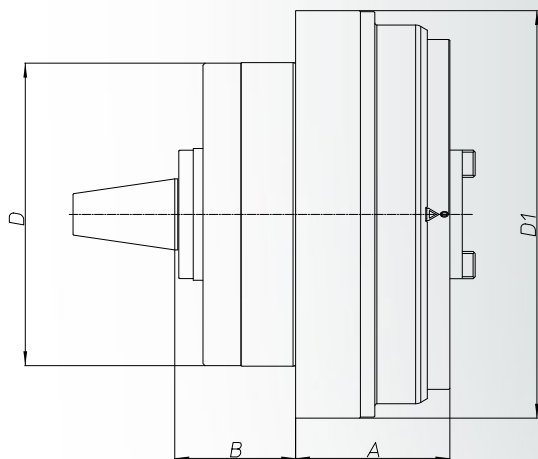
Ratio: 1-1

Rotation and Positioning by machine spindle

Positioning by Hirth crown

Clamp-unclamp by oil

Working position:  



TYPE	CAH 400-1	CAH 400-2.5		
Angle step	1°	2,5°		
Encoder	yes	no		
RPM	3000	3000		
A	150	150		
B	114,5	114,5		
D	295	295		
D1	396	396		
Weight (kg)	164	166		

The pictures are the customization of our standard products designed for the costumer.

CAW C Axis - Automatic Worm Screw

MAIN FEATURES

Ratio: 1-1

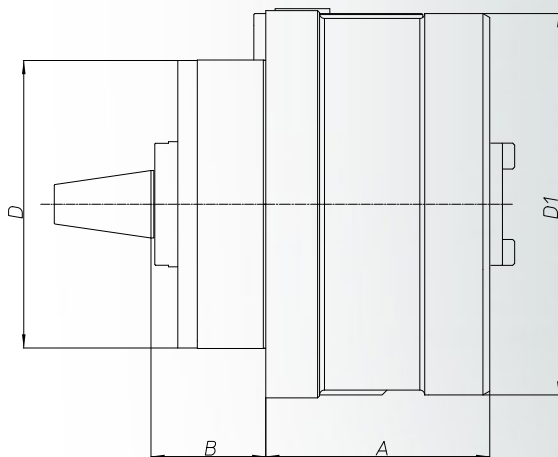
Rotation and worm screw by servo motor

Positioning by encoder

Clamp by brake

Working position:  

Axial/Radial bearing YRT



TYPE	CAW 400	CAW 500		
Encoder	yes	yes		
RPM	4000	4000		
A	242	272,5		
B	114,5	42		
D	295	294		
D1	396	520		
Weight (kg)	260	365		

The pictures are the customization of our standard products designed for the costumer.

CM C Axis - Manual Rotation

MAIN FEATURES

Ratio: 1-1

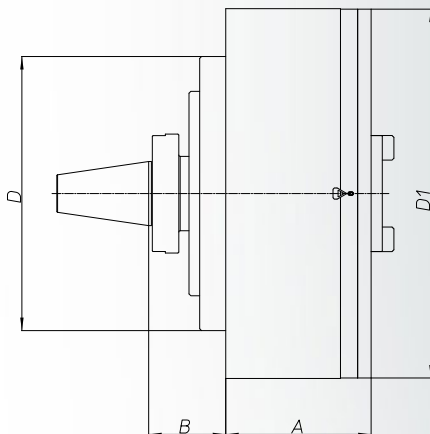
Manual rotation and positioning

Clamp-unclamp by T screw

Working position:  

Crossed roller bearing

Optional: fixed step at 90°



TYPE	CM 310	CM 400		
RPM	4000	4000		
A	145	156,5		
B	80	80		
D	183	295		
D1	310	400		
Weight (kg)	86	166		

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FH



BAH



TA



MO



HT



VH



TSI/TSX



T



MT-TC-TC3



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