

HITECO

HIGH TECHNOLOGY COMPONENTS

TESTE BIROTATIVE BIROTARY UNITS



ADVANCED
MATERIALS



PLASTIC



WOOD



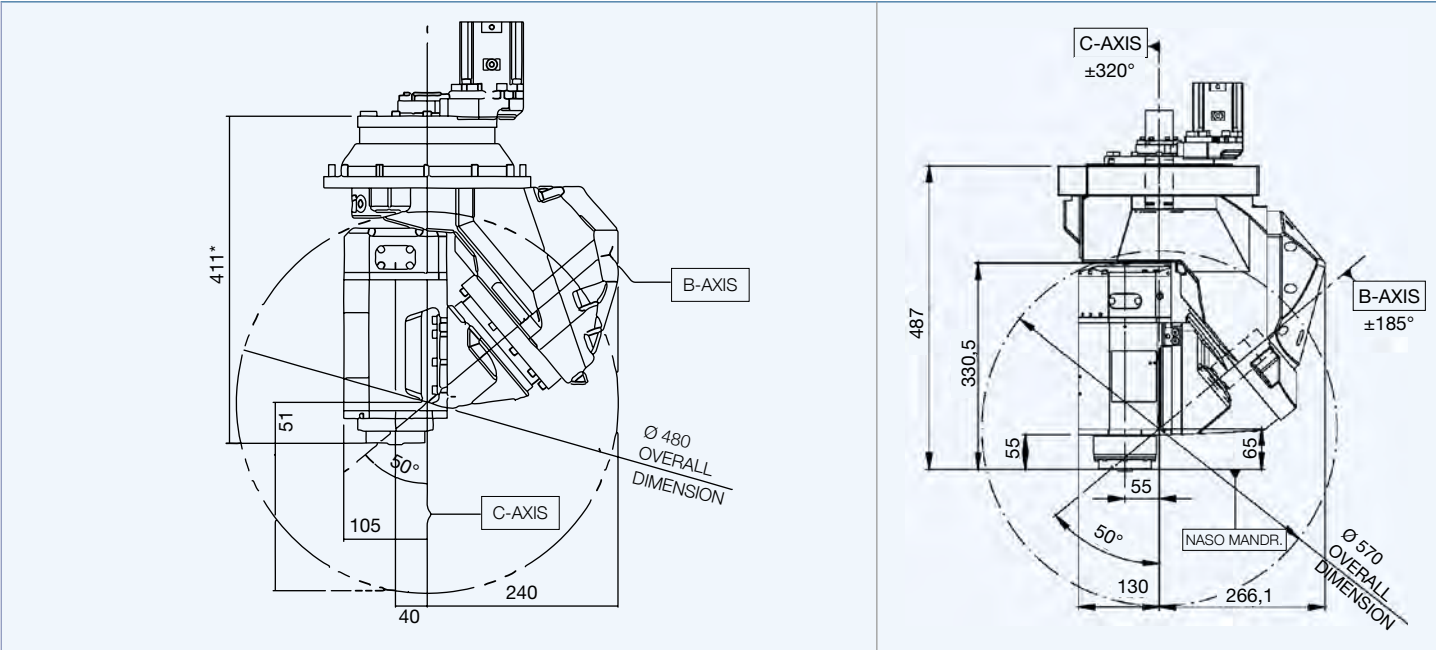
ALLUMINIUM





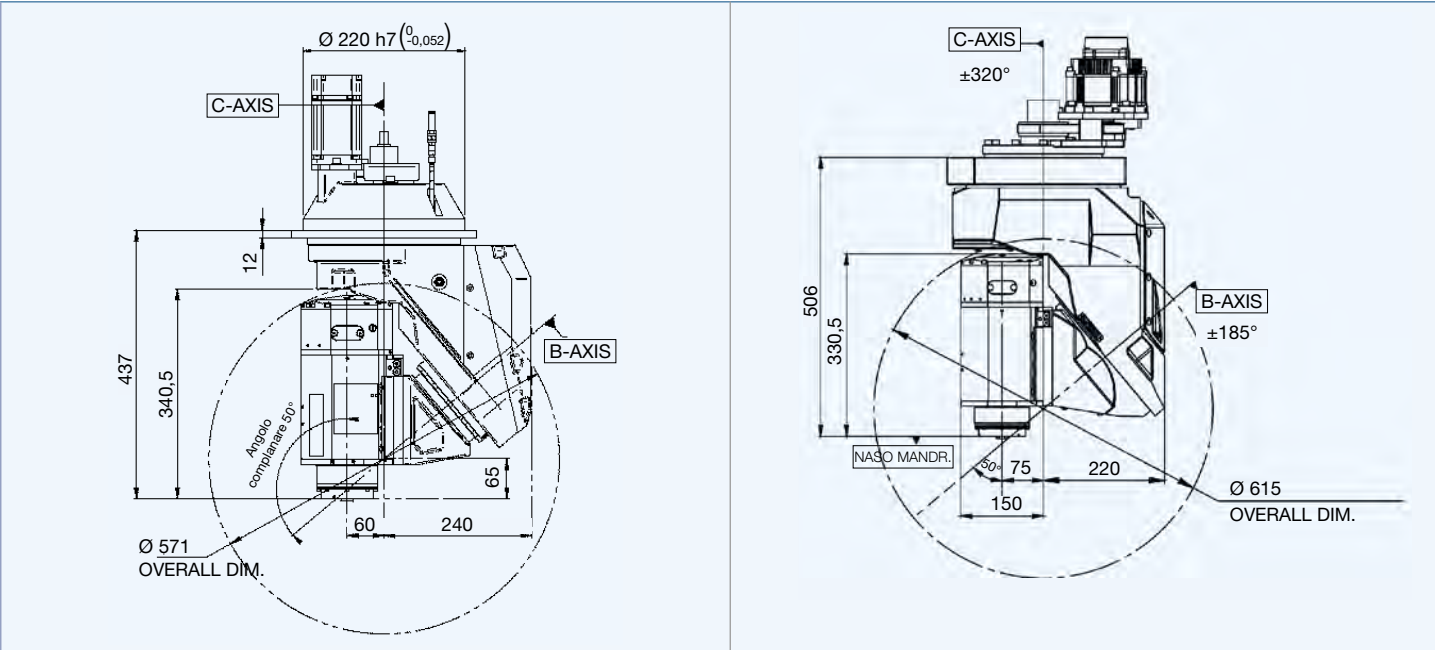
MODELLI / MODELS	ORBITAL J / ORBITAL J HIGH SPEED		ORBITAL K	
SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS	ASSE A / AXIS A	ASSE C / AXIS C	ASSE A / AXIS A	ASSE C / AXIS C
Servomotore / Servomotor	Yaskawa*		Yaskawa*	
Potenza servomotore Servomotor power	0,4 kW		0,4 kW	
Encoder servomotore Servomotor encoder	Absolute 20 Bit Assoluto		Absolute 20 Bit Assoluto	
Riduttore / Gearbox	Harmonic Drive		Harmonic Drive	
Coppia di stallo / Stall torque	320 Nm		320 Nm	
Coppia di picco / Peak torque	570 Nm		570 Nm	
Max rotazione asse Max axes rotation	±185°	±320°	±185°	±320°
Freni meccanici / Axes brakes	No		No	Si Yes
Encoder assi / Axes encoder	-		-	
Velocità posizionamento max Max. positioning speed	7.000°/'		7.000°/'	
Precisione di posizionamento assi Axes positioning accuracy	±30 arcsec		±30 arcsec	
Repetibilità / Repeatability	±15 arcsec		±15 arcsec	
Utenze / External air connections	n° 3		n° 3	
Peso / Weight	55 kg		100 kg	

* Sono disponibili altre marche di motorizzazioni a richiesta (che comportano una variazione del layout) / * Other engine brands are available on request (involving a variation of the layout)



ELETTROMANDRINI DISPONIBILI / AVAILABLE ELECTROSPINDLES		
QX SERIES	QX HIGH SERIES SPEED	PX SERIES
		
QX-1C 5/12 21 COMPRESSED AIR	QX-2 8/15 36 LIQUID HIGH SPEED	PX-2 10/7 24 LIQUID TORQUE
QX-2 8.5/12 24 LIQUID SPEED	QX-2 8/15 40 LIQUID HIGH SPEED	PX-2 13/7 24 LIQUID TORQUE
QX-2 10/12 24 LIQUID SPEED		PX-2 12/12 24 LIQUID SPEED
QX-2 11/12 24 LIQUID SPEED		PX-2 15/12 24 LIQUID SPEED
QX-2 11/10 24 LIQUID TORQUE		
For more details on the electrospindles, refer to the ATC electrospindles catalogue. Per maggiori dettagli sugli elettromandri fare riferimento al catalogo elettromandri ATC		

ORBITAL K PLUS		ORBITAL H	
ASSE A / AXIS A	ASSE C / AXIS C	ASSE A / AXIS A	ASSE C / AXIS C
Yaskawa*		Yaskawa*	
0,4 kW	0,65 kW	0,75 kW	0,85 kW
Absolute 20 Bit Assoluto		Absolute 20 Bit Assoluto	
Sumitomo		Sumitomo	Harmonic Drive
260 Nm	320 Nm	320 Nm	670 Nm
570 Nm	1030 Nm	740 Nm	980 Nm
±185°	±320°	±185°	±320°
No	Si Yes	Si Yes	
-		-	
8.000°/‘	10.000°/‘	10.000°/‘	11.500°/‘
±30 arcsec		±30 arcsec	
±15 arcsec		±15 arcsec	
n° 3		n° 3	
90 kg		140 kg	
* Sono disponibili altre marche di motorizzazioni a richiesta (che comportano una variazione del layout) / * Other engine brands are available on request (involving a variation of the layout)			



ELETTROMANDRINI DISPONIBILI / AVAILABLE ELECTROSPINDLES		
PX SERIES	PX SERIES	PX SERIES
		
PX-2 10/7 24 LIQUID TORQUE	PX-2 13/7 24 LIQUID TORQUE	PX-2 10/7 24 LIQUID TORQUE
PX-2 13/7 24 LIQUID TORQUE	PX-2 12/12 24 LIQUID SPEED	PX-2 13/7 24 LIQUID TORQUE
PX-2 12/12 24 LIQUID SPEED	PX-2 15/12 24 LIQUID SPEED	PX-2 12/12 24 LIQUID SPEED
PX-2 15/12 24 LIQUID SPEED		PX-2 15/12 24 LIQUID SPEED
		PX-2 18/12 24 LIQUID SPEED
		PX-2 24/10 24 LIQUID HIGH TORQUE
For more details on the electrospindles, refer to the ATC electrospindles catalogue. Per maggiori dettagli sugli elettromandri fare riferimento al catalogo elettromandri ATC		

SERIE ORBITAL (45°)



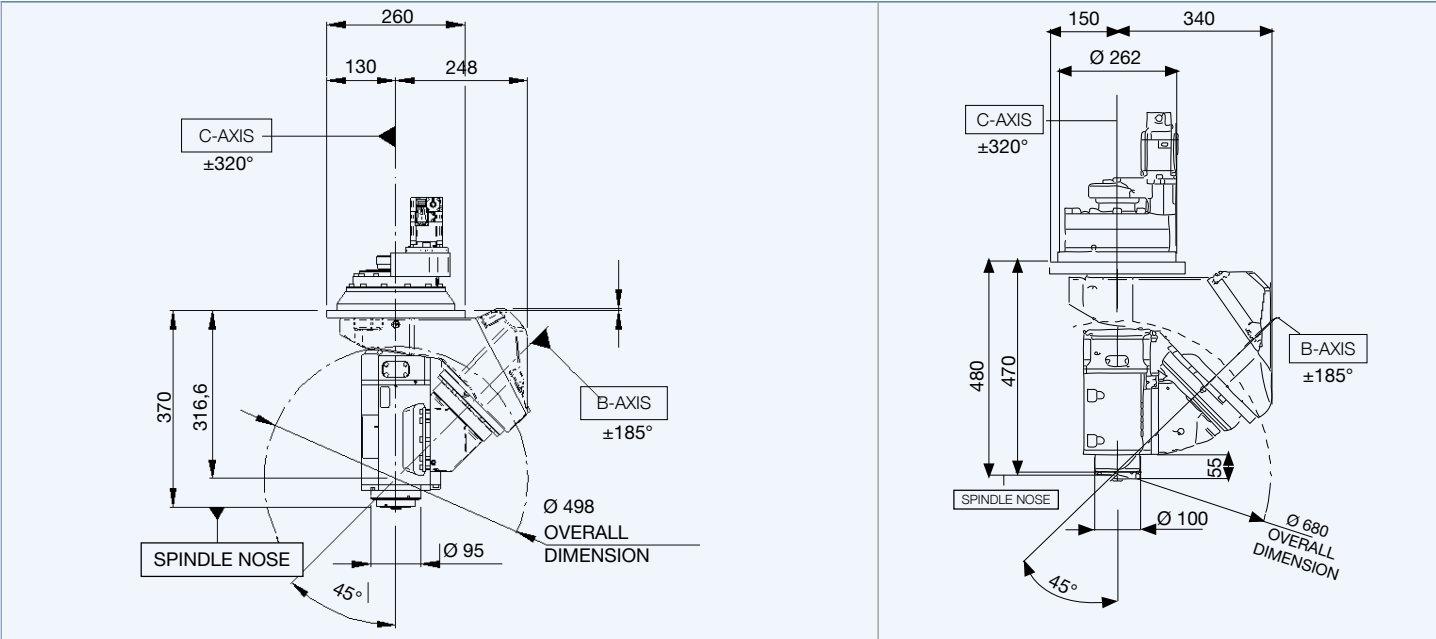
SERIE TILT (90°)



MODELLI / MODELS	ORBITAL J		ORBITAL H	
SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS	ASSE B / AXIS B	ASSE C / AXIS C	ASSE B / AXIS B	ASSE C / AXIS C
Servomotore / Servomotor	Yaskawa*		Yaskawa*	
Potenza servomotore Servomotor power	0,4 kW		0,75 kW	
Encoder servomotore Servomotor encoder	Absolute 20 Bit Assoluto		Absolute 20 Bit Assoluto	
Riduttore / Gearbox	Sumimoto		Sumimoto	
Coppia di stallo / Stall torque	220 Nm		610 Nm	540 Nm
Coppia di picco / Peak torque	540 Nm		1.960 Nm	1.874 Nm
Max rotazione asse Max axes rotation	±185°	±320°	±185°	±320°
Freni meccanici / Axes brakes	No		No	
Encoder assi / Axes encoder	No		No	
Velocità posizionamento max Max. positioning speed	10.700°/‘		8.500°/‘	9.600°/‘
Precisione di posizionamento assi Axes positioning accuracy	±30 arcsec		±30 arcsec	
Repetibilità / Repeatability	±15 arcsec		±15 arcsec	
Utenze / External air connections	n° 2		n° 4	
Peso / Weight	60 kg		130 kg	

* Sono disponibili altre marche di motorizzazioni a richiesta (che comportano una variazione del layout) /

* Other engine brands are available on request (involving a variation of the layout)



ELETTROMANDRINI DISPONIBILI / AVAILABLE ELECTROSPINDLES

QX SERIES



QX-1C 5/12 21

COMPRESSED AIR

QX-2 8.5/12 24

LIQUID SPEED

QX-2 11/12 24

LIQUID SPEED

QX-2 11/10 24

LIQUID TORQUE

HX SERIES



HX-2 10/7 24

LIQUID TORQUE

HX-2 12/12 24

LIQUID HIGH SPEED

HX-2 13/7 24

LIQUID TORQUE

HX-2 15/12 24

LIQUID SPEED

HX-2 18/12 24

LIQUID SPEED

HX-2 20/10 24

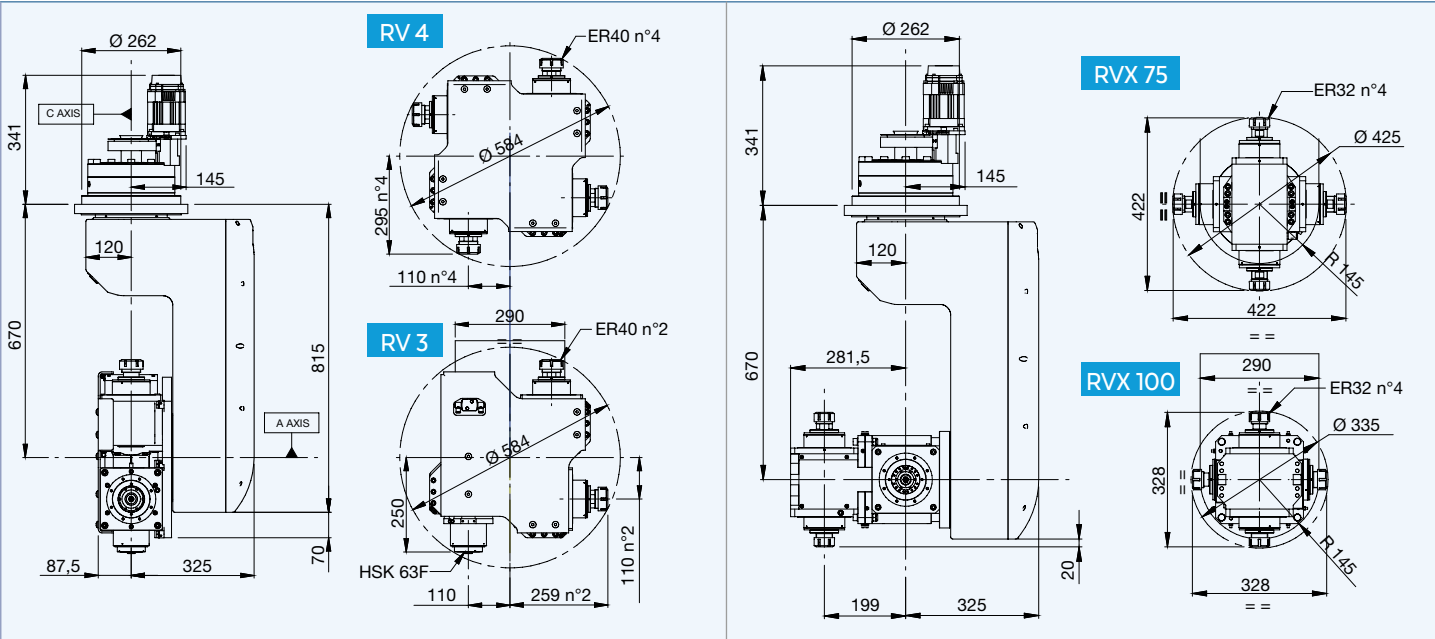
LIQUID HIGH TORQUE

HX-2 24/10 24

LIQUID HIGH TORQUE

For more details on the electrospindles, refer to the ATC electrospindles catalogue.
Per maggiori dettagli sugli elettromandri fare riferimento al catalogo elettromandri ATC

TILT RV 3 / RV4		TILT RVX 75 / RVX 100 / RVX 120	
ASSE A / AXIS A	ASSE C / AXIS C	ASSE A / AXIS A	ASSE C / AXIS C
Yaskawa*		Yaskawa*	
1,5 kW	1,5 kW	1,5 kW	1,5 kW
Absolute 20 Bit Assoluto		Absolute 20 Bit Assoluto	
Sumitomo		Sumitomo	Harmonic Drive
860 Nm	690 Nm	860 Nm	690 Nm
1.960 Nm		1.960 Nm	
±360°		±360°	
No	Si Yes	No	Si Yes
-		-	
10.100°/′	15.200°/′	10.100°/′	15.200°/′
±30 arcsec		±30 arcsec	
±15 arcsec		±15 arcsec	
-		-	
300 kg		300 kg	
* Sono disponibili altre marche di motorizzazioni a richiesta (che comportano una variazione del layout) / * Other engine brands are available on request (involving a variation of the layout)			



ELETTROMANDRINI DISPONIBILI / AVAILABLE ELECTROSPINDLES

RV 3		RV 4		RVX 75		RVX 100 / RVX 120	
	RV 3		RV 4		RVX 75		RVX 100 / RVX 120
QE-1C 10/11 24	COMPRESSED AIR	ML-1C 7.5/12 24	COMPRESSED AIR	MA-1C 7.5/12 24	COMPRESSED AIR	ML-1C 10/12 24	COMPRESSED AIR
ML-1C 7.5/12 24	COMPRESSED AIR					ML-2 12/12 24	LIQUID

For more details on the electrospindles, refer to the ATC electrospindles catalogue.
Per maggiori dettagli sugli elettromandri fare riferimento al catalogo elettromandri ATC

Technical drawing of a machine tool headstock assembly, showing dimensions in millimeters (mm). The drawing includes the following dimensions:

- Overall height: 485,5
- Height from base to center of rotation: 330,5
- Height from base to center of rotation (alternative view): 135
- Height from base to center of rotation (alternative view): 350,5
- Height from base to center of rotation (alternative view): 100
- Width of the headstock: 150
- Width of the headstock (alternative view): 80
- Width of the headstock (alternative view): 250

The drawing also includes labels for the axes:

- C-AXIS
- B-AXIS

For more details on the electrospindles, refer to the ATC electrospindles catalogue.
Per maggiori dettagli sugli elettromandri fare riferimento al catalogo elettromandri ATC

Technical drawing of a machine tool headstock assembly, showing dimensions in millimeters (mm). The drawing includes a side view and a top view. Key dimensions are:

- Overall height: 489,5
- Height from base to center of rotation: 330,5
- Height from base to center of rotation (alternative measurement): 135
- Height from base to center of rotation (alternative measurement): 354,5
- Height from base to center of rotation (alternative measurement): 100
- Width of base: 150
- Width of base (alternative measurement): 80
- Width of base (alternative measurement): 250

The drawing also includes labels for the C-AXIS and B-AXIS, indicating the coordinate system used for the machine tool.

For more details on the electrospindles, refer to the ATC electrospindles catalogue.
Per maggiori dettagli sugli elettromandriani fare riferimento al catalogo elettromandriani ATC



Technical drawings of the machine tool showing front and side views with dimensions.

Front View (Left):

- Overall height: 444,5
- Height from base to main body: 330,5
- Height from base to top section: 135
- Base width: 80
- Main body width: 150
- Overall width: 315
- Height from base to top section (right side): 309,5
- Height from base to top section (right side, lower part): 102
- Labels: C-AXIS, B-AXIS
- Dimension: Ø100

Side View (Right):

- Overall height: 444,5
- Height from base to main body: 330,5
- Height from base to top section: 135
- Base width: 150
- Main body width: 150
- Overall width: 235
- Height from base to top section (right side): 345,05
- Height from base to top section (right side, lower part): 102
- Labels: C-AXIS, B-AXIS
- Dimension: Ø100
- Dimension: Ø262
- Dimension: 80

HX-2 10/7 24	LIQUID TORQUE
HX-2 13/7 24	LIQUID TORQUE
HX-2 12/12 24	LIQUID SPEED
HX-2 15/12 24	LIQUID SPEED
HX-2 18/12 24	LIQUID SPEED
HX-2 20/10 24	LIQUID HIGH TORQUE
HX-2 24/10 24	LIQUID HIGH TORQUE

8

Technical Drawing (Left): Shows the motor with a YASKAWA servomotor. Dimensions include: 333.5 (total height), 350 (height to A-axis), 150 (base width), 320 (motor width), 452.5 (height to C-axis), 35.5 (height to A-axis), 365 (height to A-axis), 100h7 (A-axis diameter), 262h7 (C-axis diameter), and 50.5 (C-axis diameter).

Technical Drawing (Right): Shows the motor with a YASKAWA servomotor. Dimensions include: 304 (total height), 365 (height to A-axis), 150 (base width), 320 (motor width), 467.5 (height to C-axis), 35.5 (height to A-axis), 365 (height to A-axis), 100h7 (A-axis diameter), 262h7 (C-axis diameter), and 50.5 (C-axis diameter).

Tipo EM	quota L1 (mm)	Tipo EM	quota L1 (mm)
HX-NC (SHORT NOSE)	135	HT-NC (SHORT NOSE)	185
HX-NL (LONG NOSE)	193	HT-NL (LONG NOSE)	243
		HT-NH (HEAVY NOSE)	211

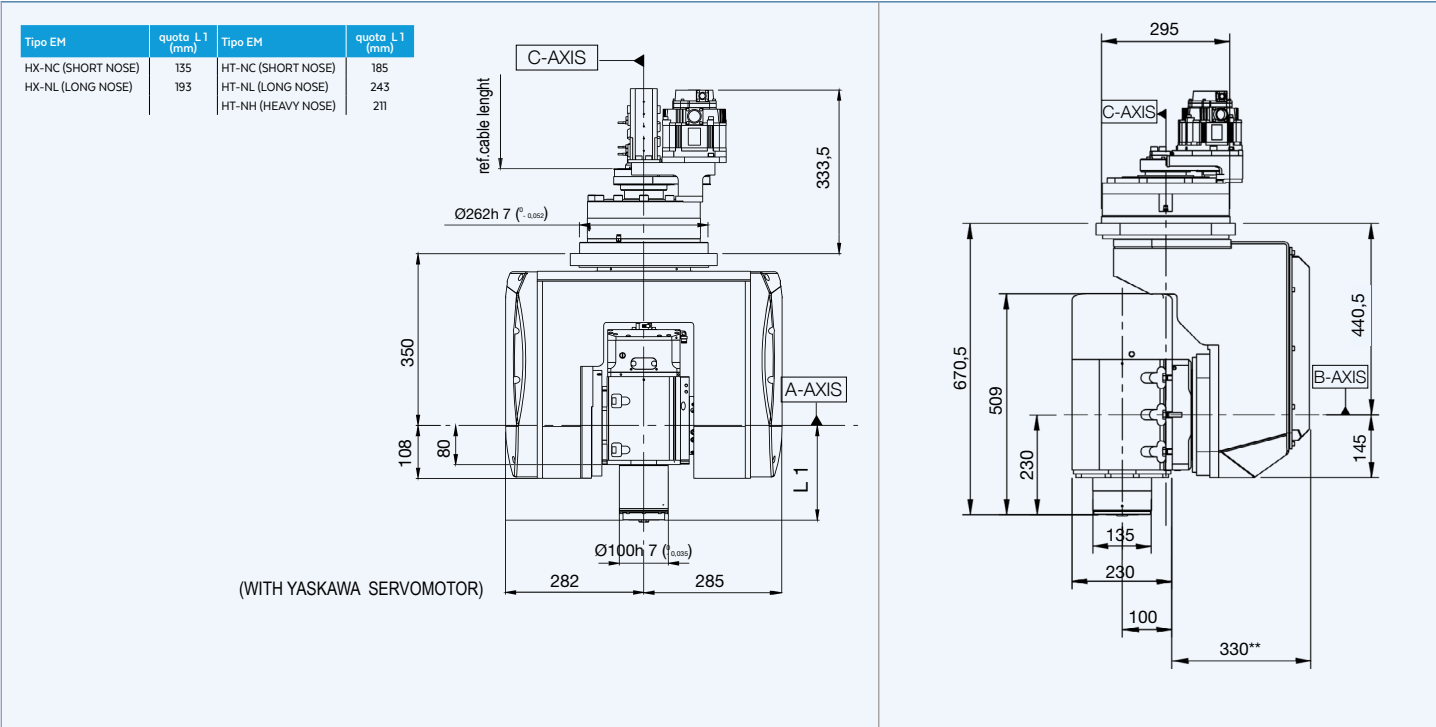
HX-2 10/7 24	LIQUID TORQUE
HX-2 13/7 24	LIQUID TORQUE
HX-2 12/12 24	LIQUID SPEED
HX-2 15/12 24	LIQUID SPEED
HX-2 18/12 24	LIQUID SPEED
HX-2 20/10 24	LIQUID HIGH TORQUE
HX-2 24/10 24	LIQUID HIGH TORQUE
HT-2 25/10 24	LIQUID SPEED
HT-2 18/6 24	LIQUID TORQUE
HT-2 25/4 16	LIQUID HIGH TORQUE

C



MODELLI / MODELS	TILT W		TILT TLP	
SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS	ASSE A / AXIS A	ASSE C / AXIS C	ASSE A / AXIS A	ASSE C / AXIS C
Servomotore / Servomotor	Yaskawa*		Yaskawa*	
Potenza servomotore Servomotor power	0,75 kW	0,85 kW	0,75 kW	0,85 kW
Encoder servomotore Servomotor encoder	Absolute 20 Bit Assoluto		Absolute 20 Bit Assoluto	
Riduttore / Gearbox	Sumitomo		Sumitomo	
Coppia di stallo / Stall torque	425 Nm	635 Nm	800 Nm	636 Nm
Coppia di picco / Peak torque	1030 Nm	1962 Nm	1962 Nm	3188 Nm
Max rotazione asse Max axes rotation	±120°	±320°	±135°	±320°
Freni meccanici / Axes brakes	Si Yes		Si Yes	
Encoder assi / Axes encoder	Si Yes (OPT)		Si Yes (OPT)	
Velocità posizionamento max Max. positioning speed	10.000°/‘	12.500°/‘	10.000°/‘	11.000°/‘
Precisione di posizionamento assi Axes positioning accuracy	±30 arcsec (±15 arcsec) Con encoder assi / With axes encoder		±30 arcsec (±15 arcsec) Con encoder assi / With axes encoder	
Repetibilità / Repeatability	±15 arcsec		±15 arcsec	
Utenze / External air connections	n° 2		n° 2	
Peso / Weight	210 kg		250 kg	

* Sono disponibili altre marche di motorizzazioni a richiesta (che comportano una variazione del layout) / * Other engine brands are available on request (involving a variation of the layout)



ELETTROMANDRINI DISPONIBILI / AVAILABLE ELECTROSPINDLES

HT NH SERIES



HX-2 10/7 24	LIQUID TORQUE	HX-2 20/10 24	LIQUID HIGH TORQUE
HX-2 13/7 24	LIQUID TORQUE	HX-2 24/10 24	LIQUID HIGH TORQUE
HX-2 12/12 24	LIQUID SPEED	HT-2 25/10 24	LIQUID SPEED
HX-2 15/12 24	LIQUID SPEED	HT-2 18/6 24	LIQUID TORQUE
HX-2 18/12 24	LIQUID SPEED	HT-2 25/4 16	LIQUID HIGH TORQUE

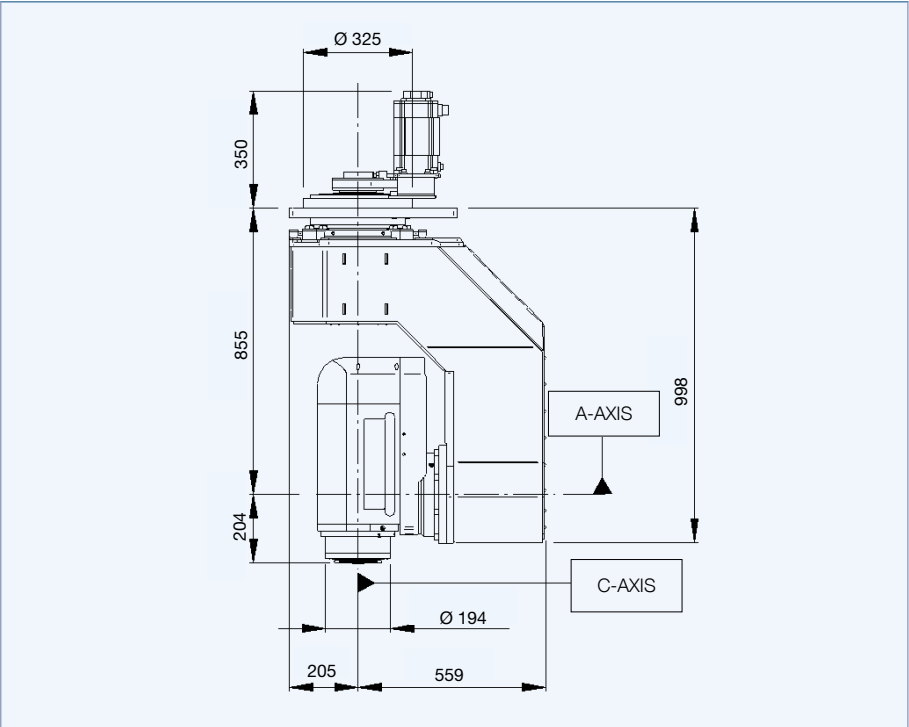
QM SERIES



QM-2 30/6 13	LIQUID HIGH TORQUE
QM-2 34/6 13	LIQUID HIGH TORQUE

For more details on the electrospindles, refer to the ATC electrospindles catalogue.
Per maggiori dettagli sugli elettromandri fare riferimento al catalogo elettromandri ATC

TILT CLT	
ASSE A / AXIS A	ASSE C / AXIS C
Yaskawa*	
1,3 kW	1,3 kW
Absolute 20 Bit Assoluto	
Sumitomo	
1280 Nm	1970 Nm
3180 Nm	4316 Nm
±120°	±320°
No	
No	
6.700°/‘	6.700°/‘
±30 arcsec	
-	
n° 2	
550 kg	
* Sono disponibili altre marche di motorizzazioni a richiesta (che comportano una variazione del layout) / * Other engine brands are available on request (involving a variation of the layout)	



ELETTROMANDRINI DISPONIBILI / AVAILABLE ELECTROSPINDLES

MX SERIES



MX-2 47/3 12	LIQUID
MX-2 60/3 12	LIQUID

For more details on the electrospindles, refer to the ATC electrospindles catalogue.
Per maggiori dettagli sugli elettromandri fare riferimento al catalogo elettromandri ATC



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