

HITECO

HIGH TECHNOLOGY COMPONENTS

TESTE BIROTATIVE BIROTARY UNITS



ADVANCED
MATERIALS

PLASTIC

WOOD

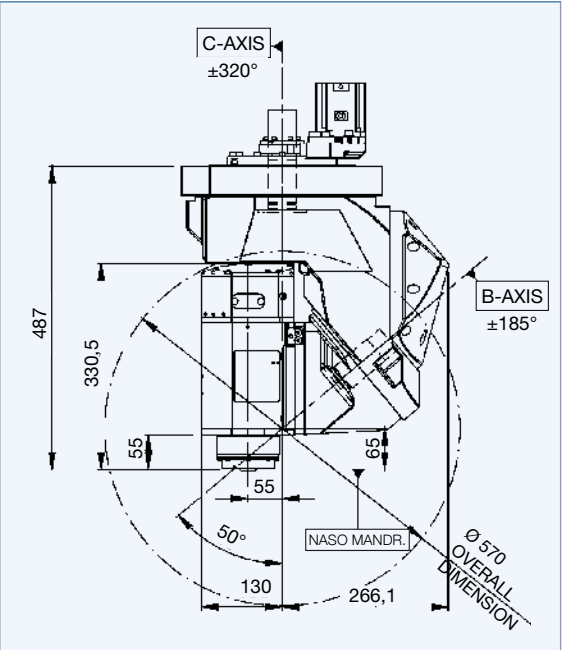
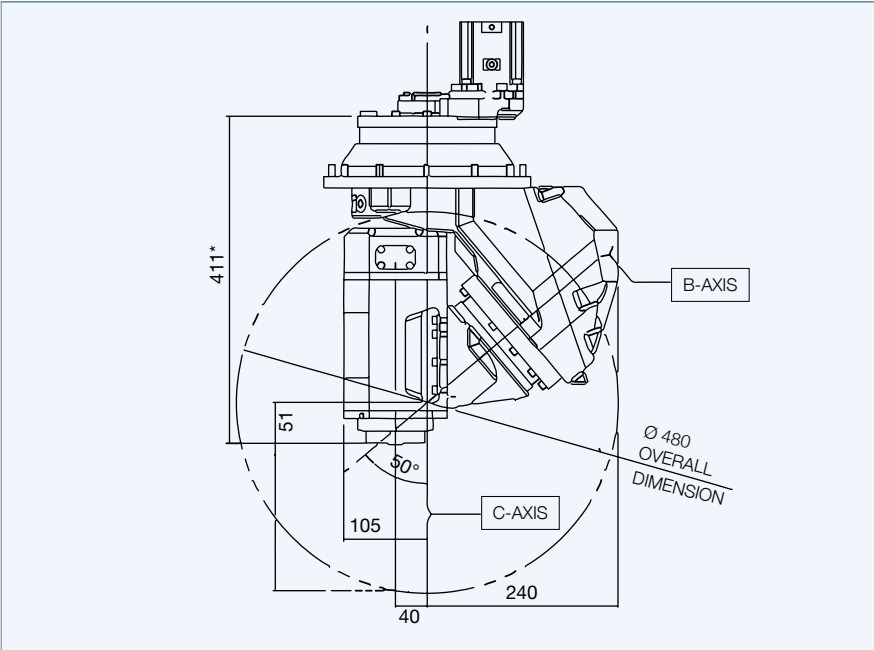
ALLUMINIUM





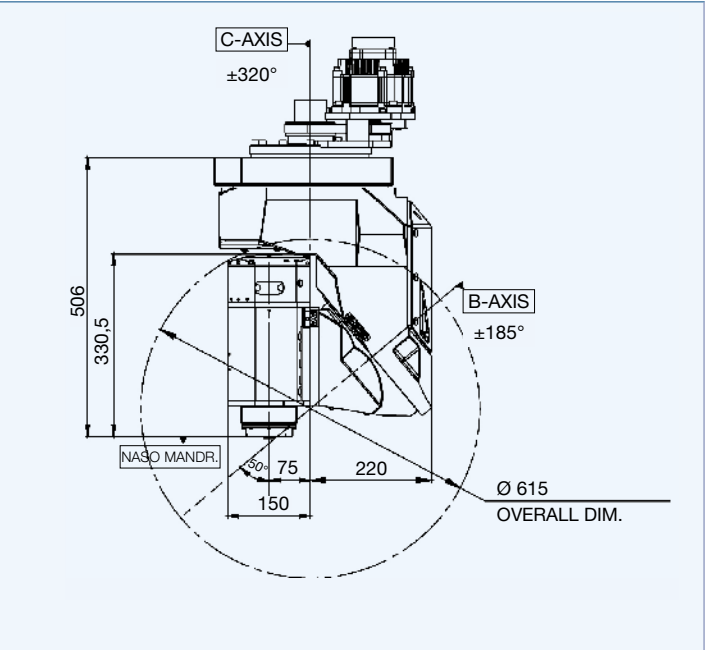
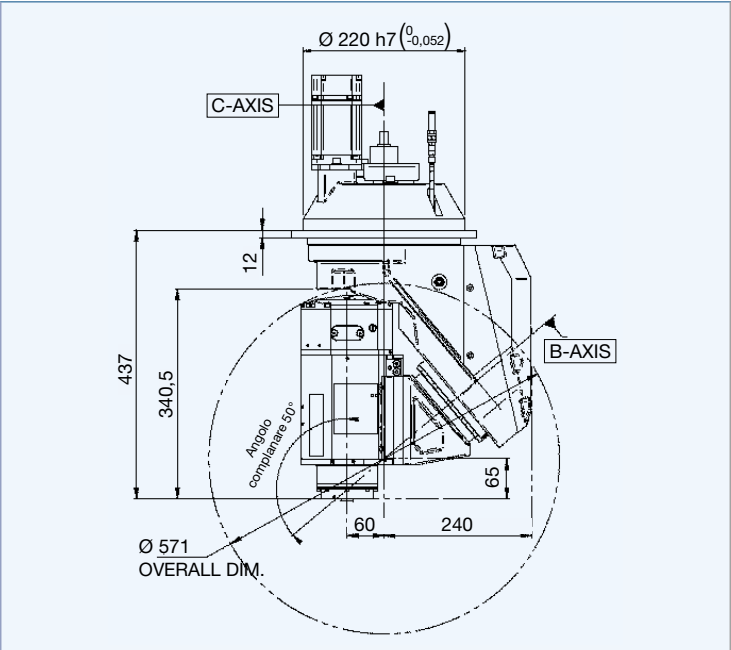
MODELLI / MODELS	ORBITAL J / ORBITAL J HIGH SPEED		ORBITAL K	
SPECIFICHE TECNICHE / TECHNICAL SPECIFICATIONS	ASSE A / AXIS A	ASSE C / AXIS C	ASSE A / AXIS A	ASSE C / AXIS C
Servomotore / Servomotor	Yaskawa*		Yaskawa*	
Potenza servomotore Servomotor power	0,4 kW		0,4 kW	
Encoder servomotore Servomotor 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 10/7 24 LIQUID TORQUE	PX-2 10/7 24 LIQUID TORQUE
PX-2 13/7 24 LIQUID TORQUE	PX-2 13/7 24 LIQUID TORQUE	PX-2 13/7 24 LIQUID TORQUE
PX-2 12/12 24 LIQUID SPEED	PX-2 12/12 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 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°)

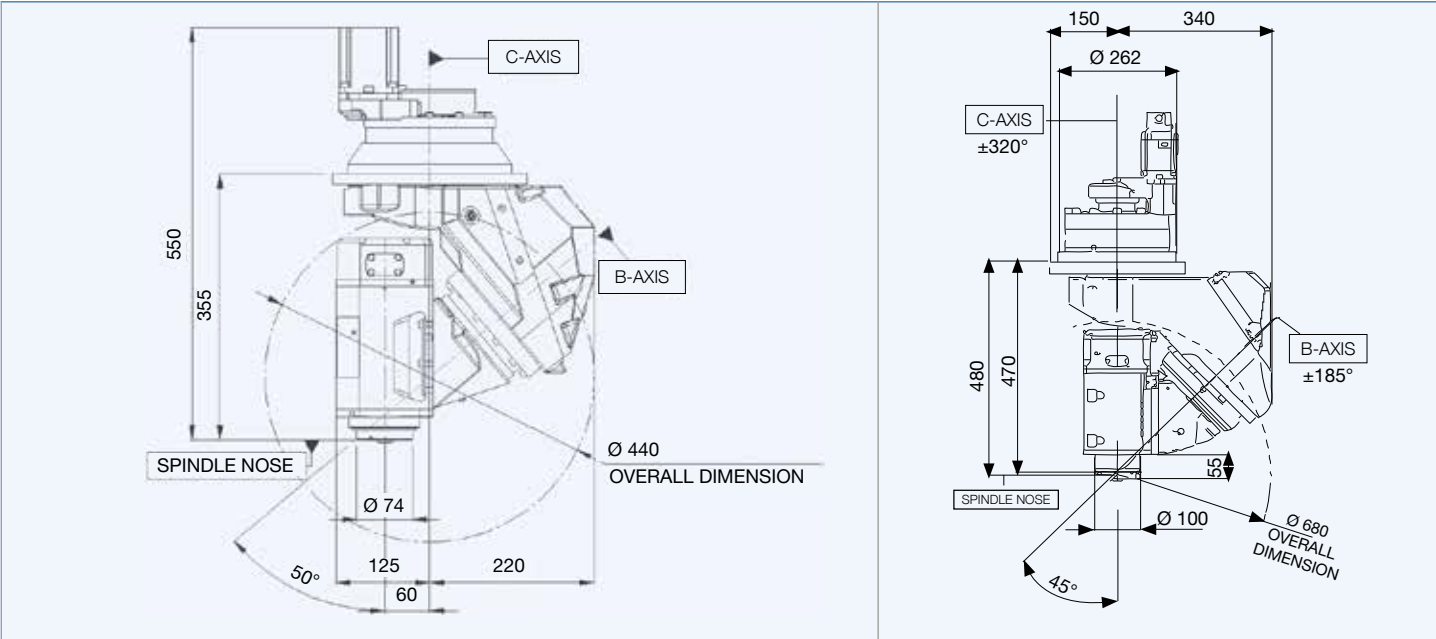


SERIE TILT (90°)



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	

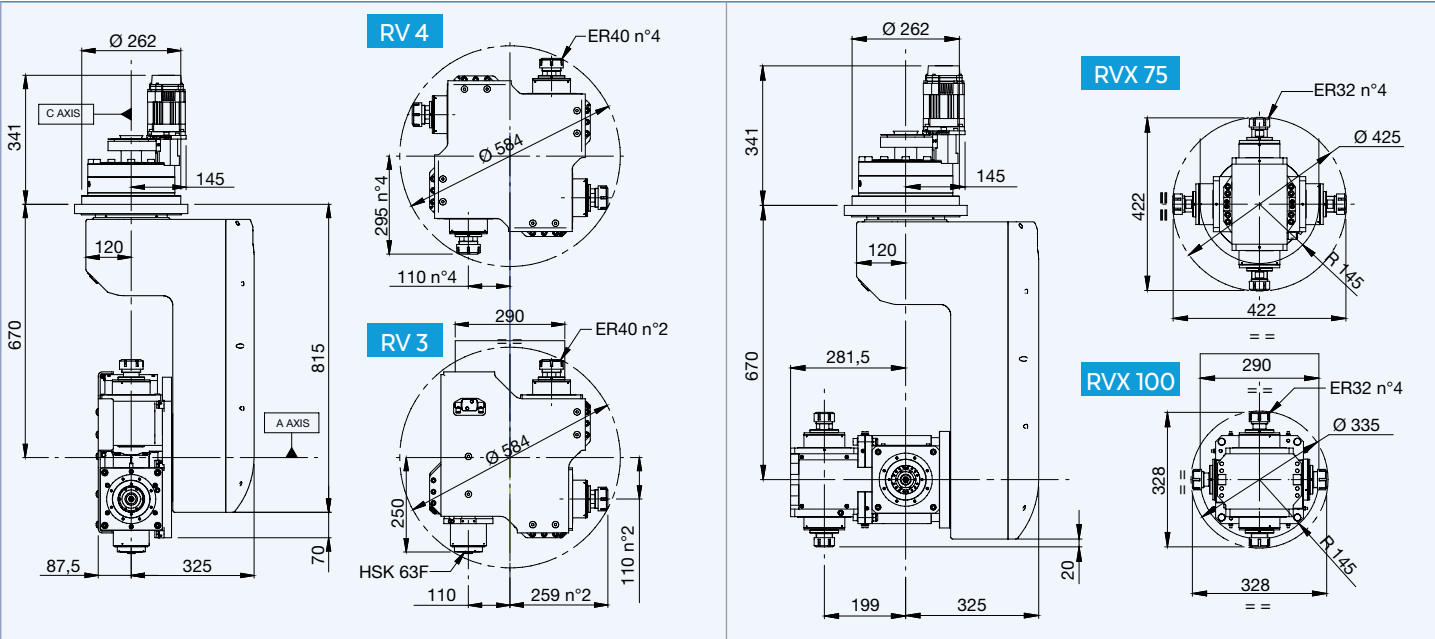
* Sono disponibili altre marche di motorizzazioni a richiesta (che comportano una variazione del layout) / * Other engine brands are available on request (involving a variation of the layout)



ELETTROMANDRINI DISPONIBILI / AVAILABLE ELECTROSPINDLES			
QX SERIES 	QX-1C 5/12 21	COMPRESSED AIR	HX SERIES
	QX-2 8.5/12 24	LIQUID SPEED	
	QX-2 11/12 24	LIQUID SPEED	
	QX-2 11/10 24	LIQUID TORQUE	
	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	
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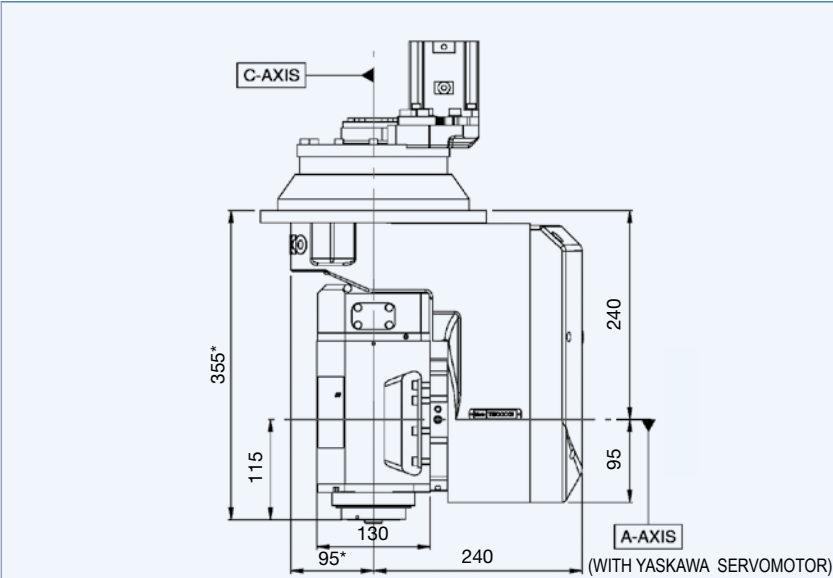
ELETTROMANDRINI DISPONIBILI / AVAILABLE ELECTROSPINDLES			
RV 3 	QE-1C 10/11 24	COMPRESSED AIR	RV 4
	ML-1C 7.5/12 24	COMPRESSED AIR	
	RVX 75 	MA-1C 7.5/12 24	COMPRESSED AIR
		ML-1C 10/12 24	COMPRESSED AIR
		ML-2 12/12 24	LIQUID

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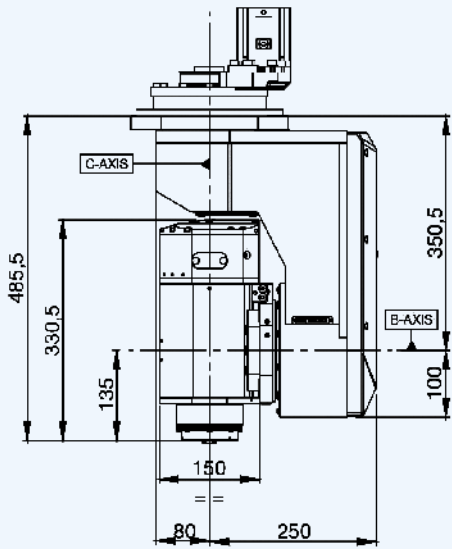
SERIE TILT (90°)



MODELLI / MODELS	TILT J / TILT J HIGH SPEED		TILT 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	0,40 kW		0,40 kW	
Encoder servomotore Servomotor encoder	Absolute 20 Bit Assoluto		Absolute 20 Bit Assoluto	
Riduttore / Gearbox	Harmonic Drive		Harmonic Drive	
Coppia di stallo / Stall torque	380 Nm		380 Nm	
Coppia di picco / Peak torque	570 Nm		570 Nm	
Max rotazione asse Max axes rotation	±120°	±320°	±135°	±320°
Freni meccanici / Axes brakes	No		No	
Encoder assi / Axes encoder	-		-	
Velocità posizionamento max Max. positioning speed	6.100°/‘		6.100°/‘	
Precisione di posizionamento assi Axes positioning accuracy	±30 arcsec		±30 arcsec	
Repetibilità / Repeatability	±15 arcsec		±15 arcsec	
Utenze / External air connections	n° 1		n° 2	
Peso / Weight	60 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)				



*L'opzionale encoder comporta un aumento di 25 mm rispetto alla quota riportata nello schema / When the unit is with encoder the quote increases by 25 mm from the one represented in the plan



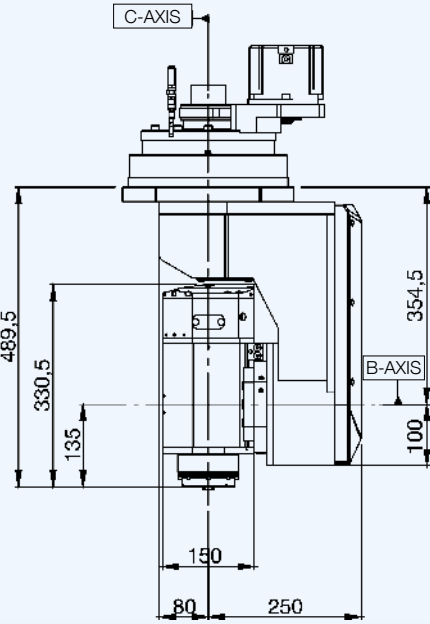
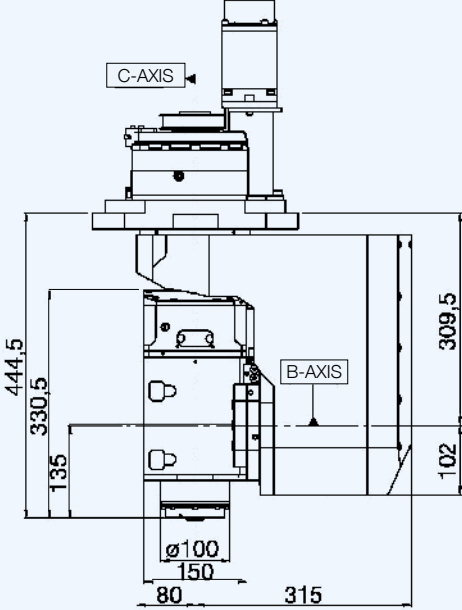
ELETTROMANDRINI DISPONIBILI / AVAILABLE ELECTROSPINDLES

QX HIGH SPEED SERIES		QX SERIES		PX SERIES	
	QX-2 8/15 36	LIQUID HIGH SPEED		QX-1C 5/12 21	COMPRESSED AIR
	QX-2 8/15 40	LIQUID HIGH SPEED		QX-2 8.5/12 24	LIQUID SPEED
				QX-2 10/12 24	LIQUID SPEED
				QX-2 11/12 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

TILT K PLUS		TILT H	
ASSE A / <i>AXIS A</i>	ASSE C / <i>AXIS C</i>	ASSE A / <i>AXIS A</i>	ASSE C / <i>AXIS C</i>
Yaskawa*		Yaskawa*	
0,40 kW	0,65 kW	0,40 kW	0,75 kW
<i>Absolute 20 Bit</i> Assoluto		<i>Absolute 20 Bit</i> Assoluto	
Sumitomo		Harmonic Drive	
350 Nm	503 Nm	380 Nm	460 Nm
1030 Nm		570 Nm	980 Nm
±130°	±320°	±135°	±320°
No		<i>Si Yes</i>	
-		-	
6.700°/'	7.500°/'	6.100°/'	9.300°/'
±30 arcsec		±30 arcsec	
±15 arcsec		±15 arcsec	
n° 2		n° 2	
100 kg		120 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

HX SERIES



HX-2 10/7 24	LIQUID TORQUE
HX-2 13/7 24	LIQUID TORQUE
HX-2 12/12 24	LIQUID SPEED
PX-2 15/12 24	LIQUID SPEED

PX SERIES



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

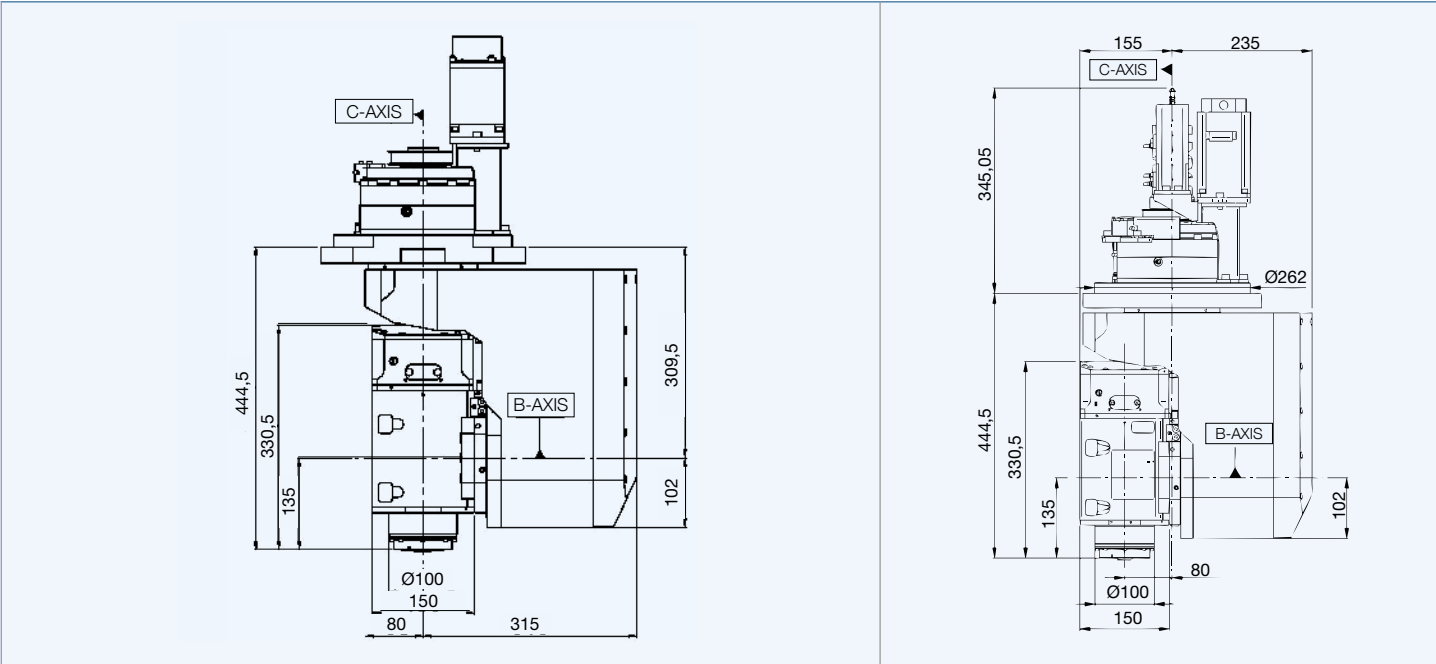
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SERIE TILT (90°)



MODELLI / MODELS	TILT H PLUS		TILT H PLUS COMPACT	
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	0,40 kW	0,65 kW	0,40 kW	0,65 kW
Encoder servomotore Servomotor encoder	Absolute 20 Bit Assoluto		Absolute 20 Bit Assoluto	
Riduttore / Gearbox	Sumitomo		Sumitomo	
Coppia di stallo / Stall torque	350 Nm	503 Nm	350 Nm	503 Nm
Coppia di picco / Peak torque	1030 Nm		1030 Nm	
Max rotazione asse Max axes rotation	±130°	±320°	±130°	±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	6.700°/‘	7.500°/‘	6.700°/‘	7.500°/‘
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	110 kg		110 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

HX SERIES



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

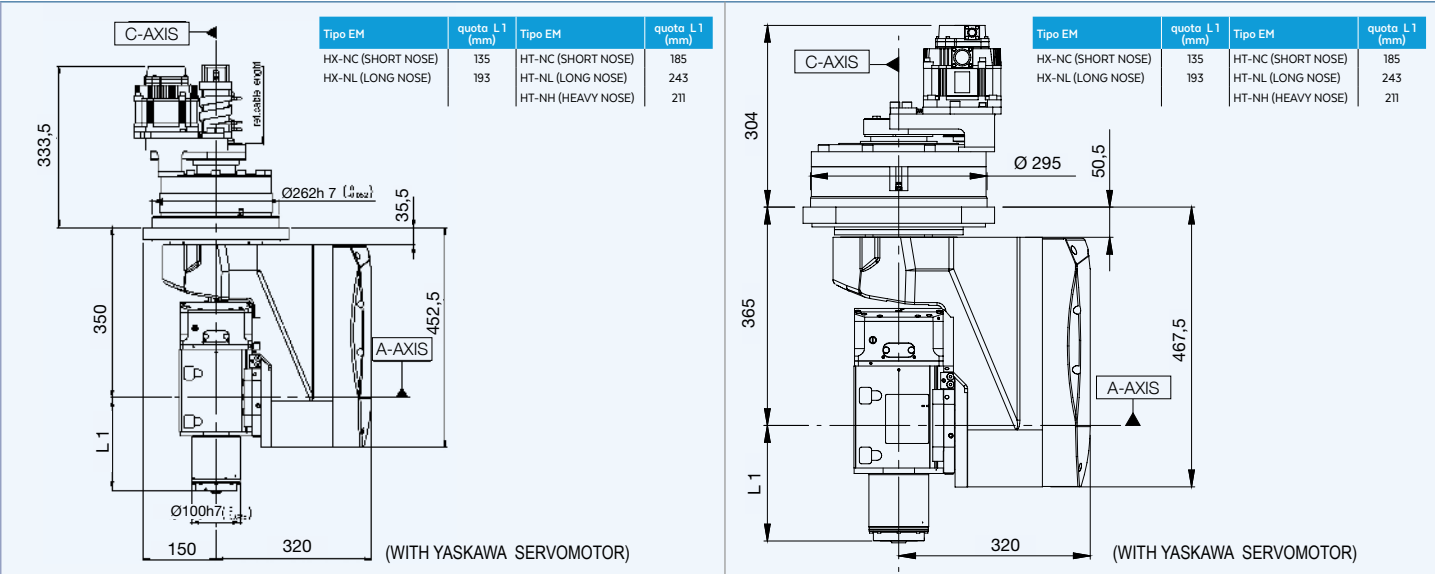
HX SERIES



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

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Per maggiori dettagli sugli elettromandri fare riferimento al catalogo elettromandri ATC

TILT V		TILT V PLUS	
ASSE A / AXIS A	ASSE C / AXIS C	ASSE A / AXIS A	ASSE C / AXIS C
Yaskawa*		Yaskawa*	
0,75 kW	0,85 kW	0,75 kW	0,85 kW
Absolute 20 Bit Assoluto		Absolute 20 Bit Assoluto	
Sumitomo		Sumitomo	
425 Nm	635 Nm	425 Nm	636 Nm
1030 Nm	1962 Nm	1030 Nm	3188 Nm
±120°	±320°	±120°	±320°
Si Yes		Si Yes	
Si Yes (OPT)		Si Yes (OPT)	
10.000°/‘	12.500°/‘	10.000°/‘	11.000°/‘
±30 arcsec (±15 arcsec) Con encoder assi / With axes encoder		±30 arcsec (±15 arcsec) Con encoder assi / With axes encoder	
±15 arcsec		±15 arcsec	
n° 2		n° 2	
150 kg		170 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

HX SERIES



HT SERIES



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

HX SERIES



HT SERIES

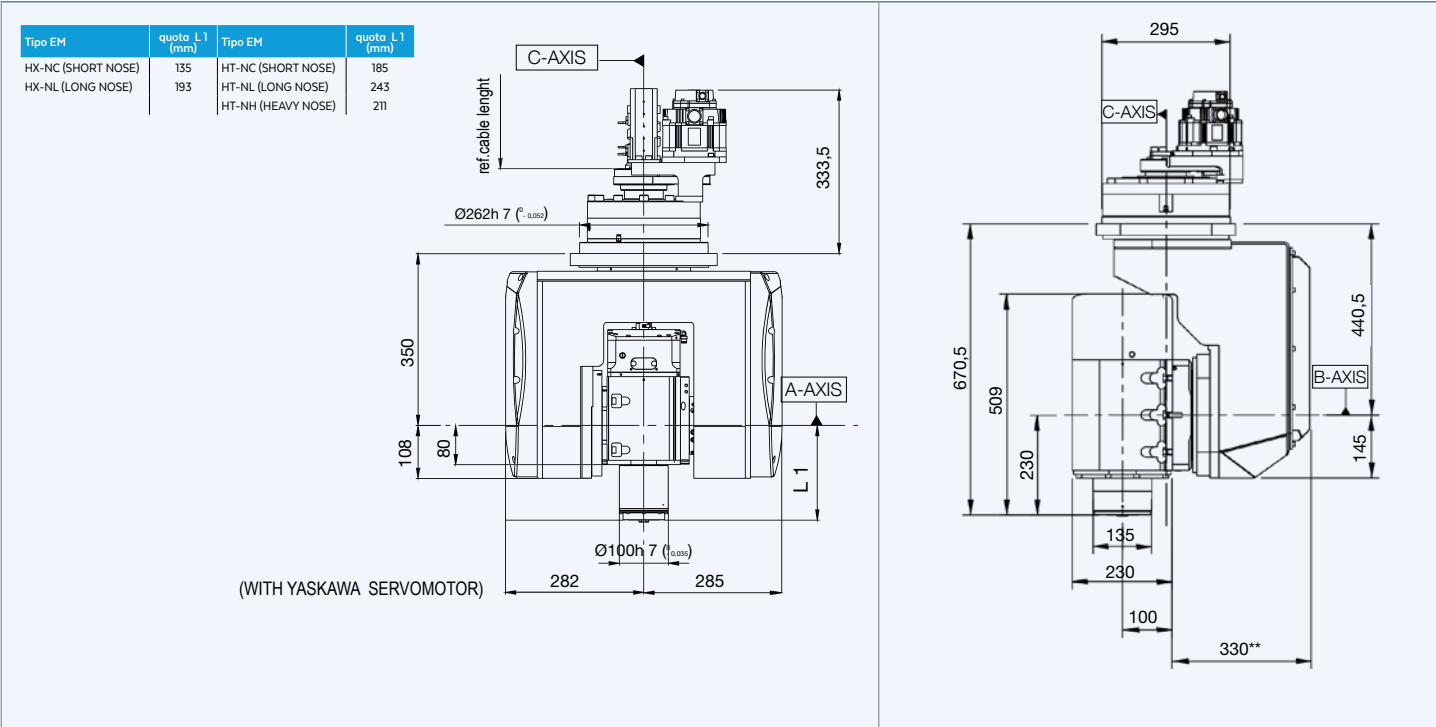


HX-2 10/7 24	LIQUID TORQUE
HX-2 13/7 24	LIQUID TORQUE
HX-2 12/12 24	LIQUID SPEED
HX-2 15/12 24	LIQUID SPEED
HX-2 18/12 24	LIQUID SPEED
HX-2 20/10 24	LIQUID HIGH TORQUE
HX-2 24/10 24	LIQUID HIGH TORQUE
HT-2 25/10 24	LIQUID SPEED
HT-2 18/6 24	LIQUID TORQUE
HT-2 25/4 16	LIQUID HIGH TORQUE

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Per maggiori dettagli sugli elettromandri fare riferimento al catalogo elettromandri ATC



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

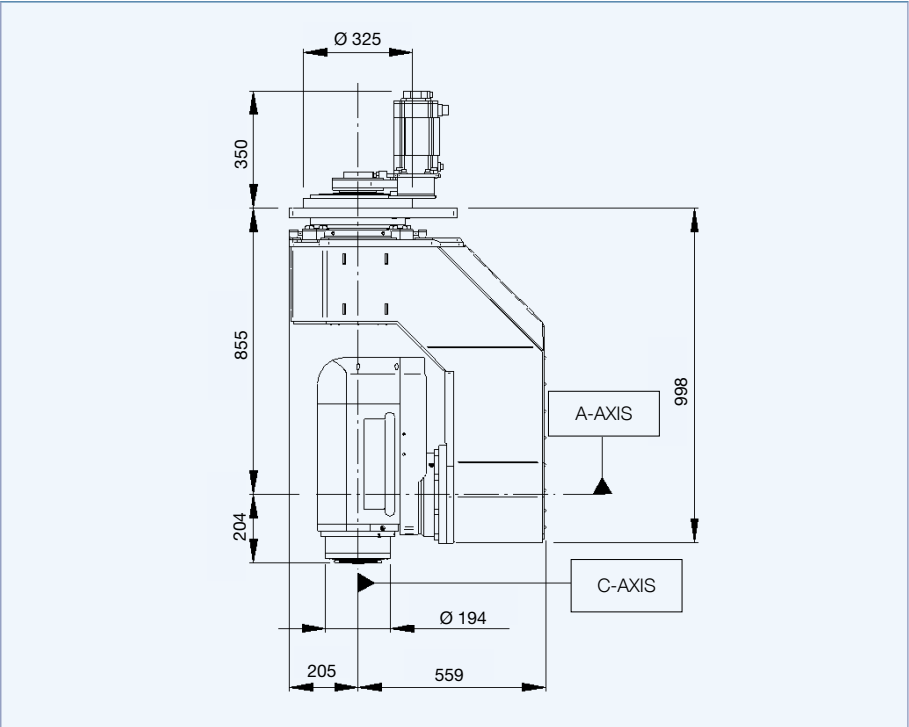
	HX-2 10/7 24	LIQUID TORQUE	HX-2 20/10 24	LIQUID HIGH TORQUE
	HX-2 13/7 24	LIQUID TORQUE	HX-2 24/10 24	LIQUID HIGH TORQUE
	HX-2 12/12 24	LIQUID SPEED	HT-2 25/10 24	LIQUID SPEED
	HX-2 15/12 24	LIQUID SPEED	HT-2 18/6 24	LIQUID TORQUE
	HX-2 18/12 24	LIQUID SPEED	HT-2 25/4 16	LIQUID HIGH TORQUE

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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