

start thinking light blue



change your head



to be ahead



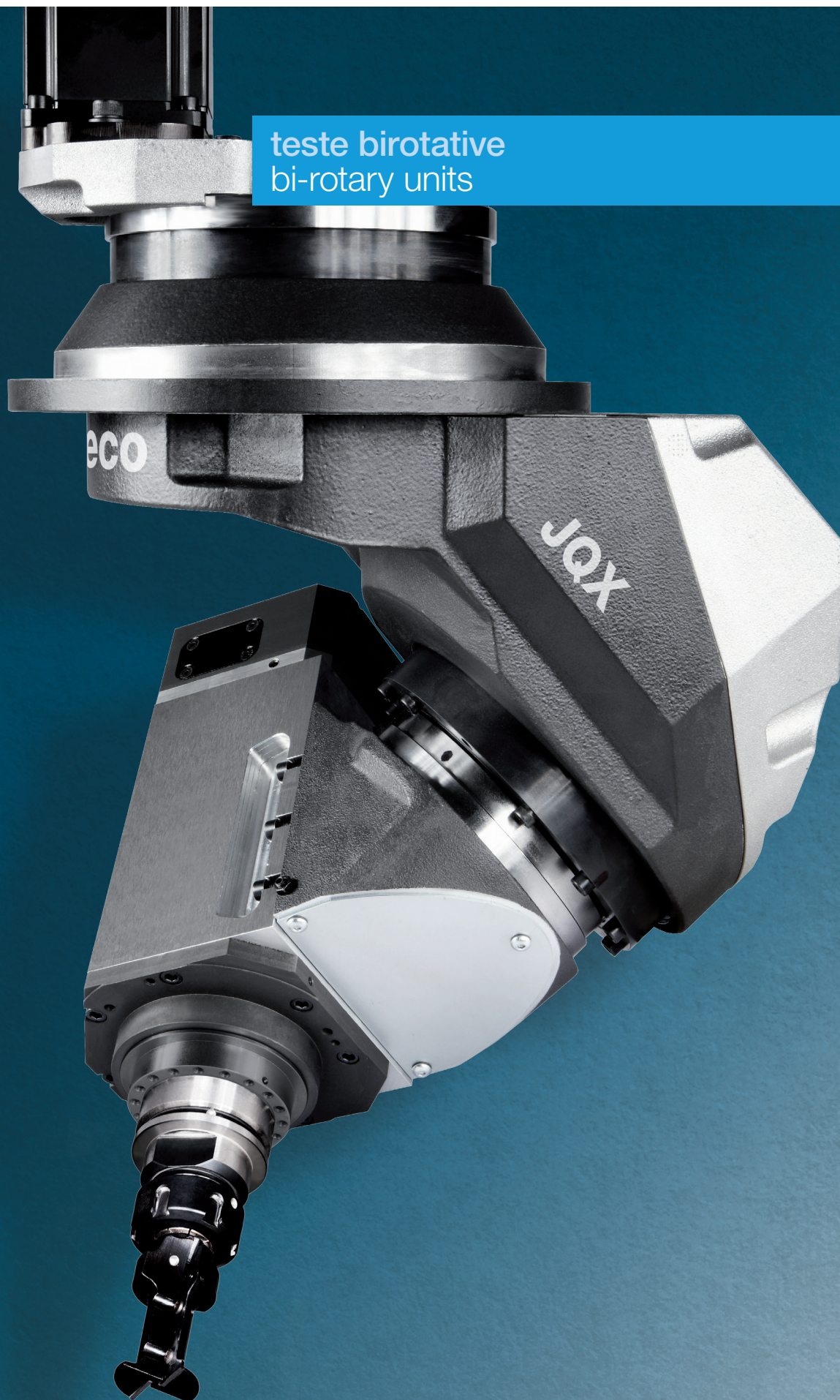
HITECO

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teste birotative
bi-rotary units



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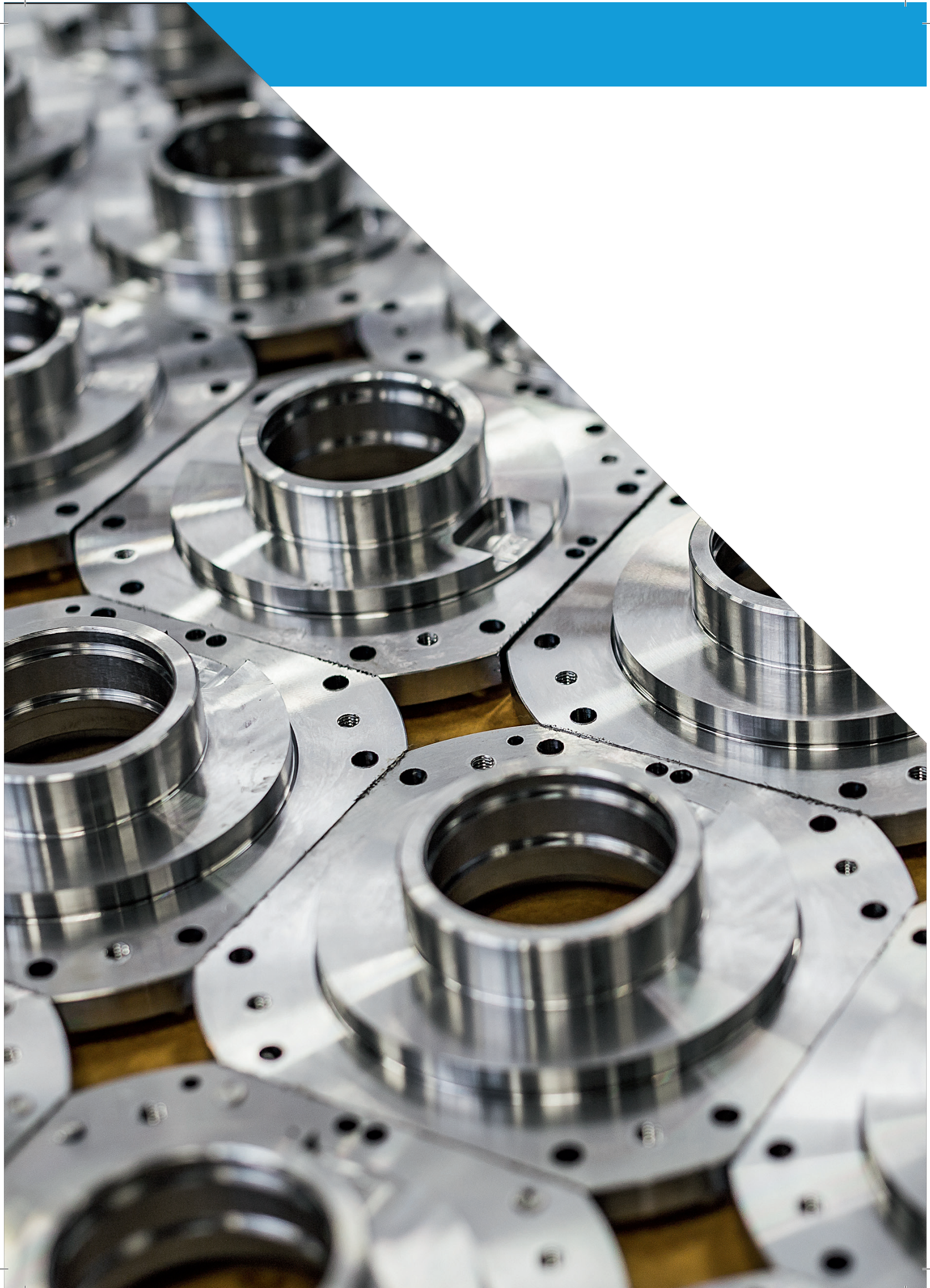
HITECO
HIGH TECHNOLOGY COMPONENTS





**change your head
to be ahead**

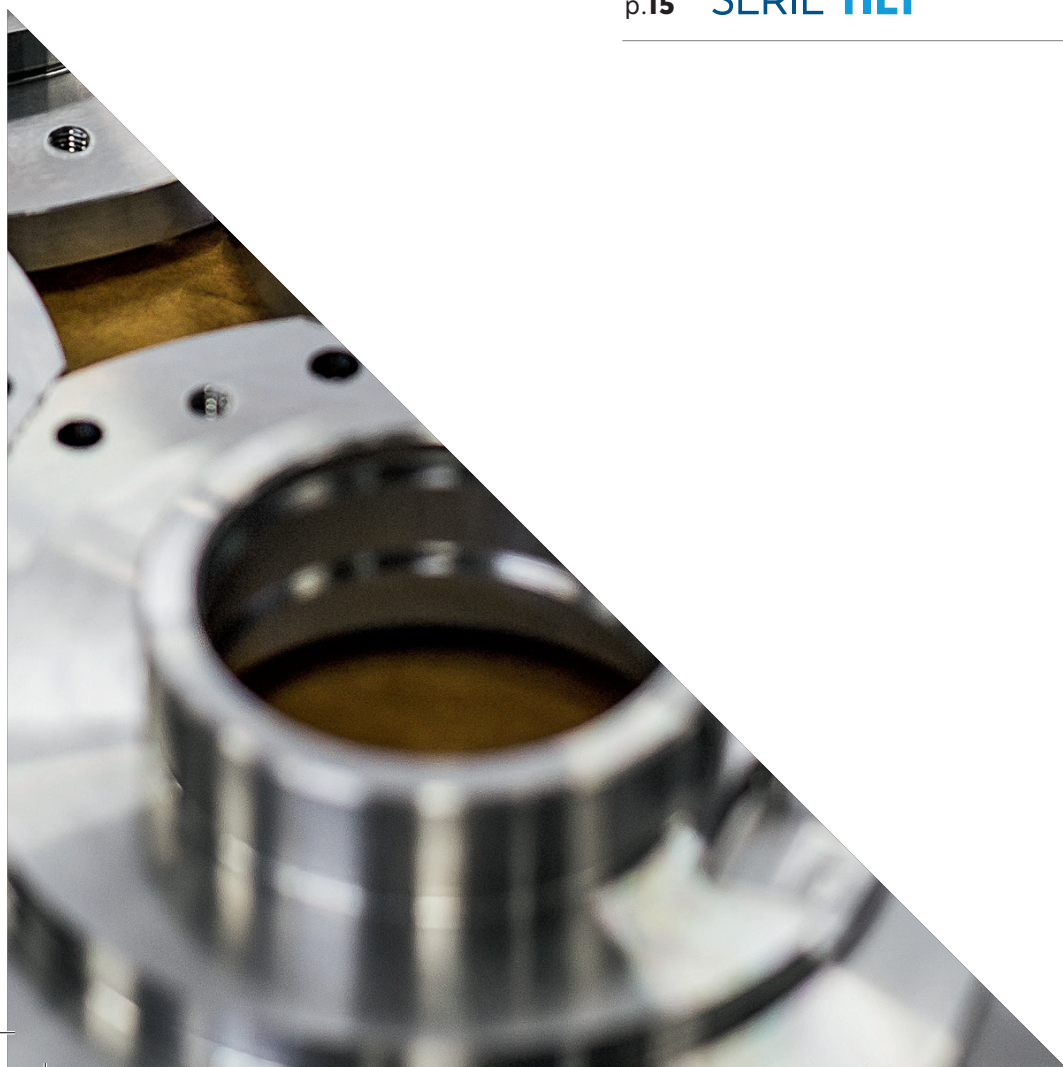




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p.7 SERIE **ORBITAL**

p.15 SERIE **TILT**





SERIE ORBITAL

ORBITAL J

p.**8**

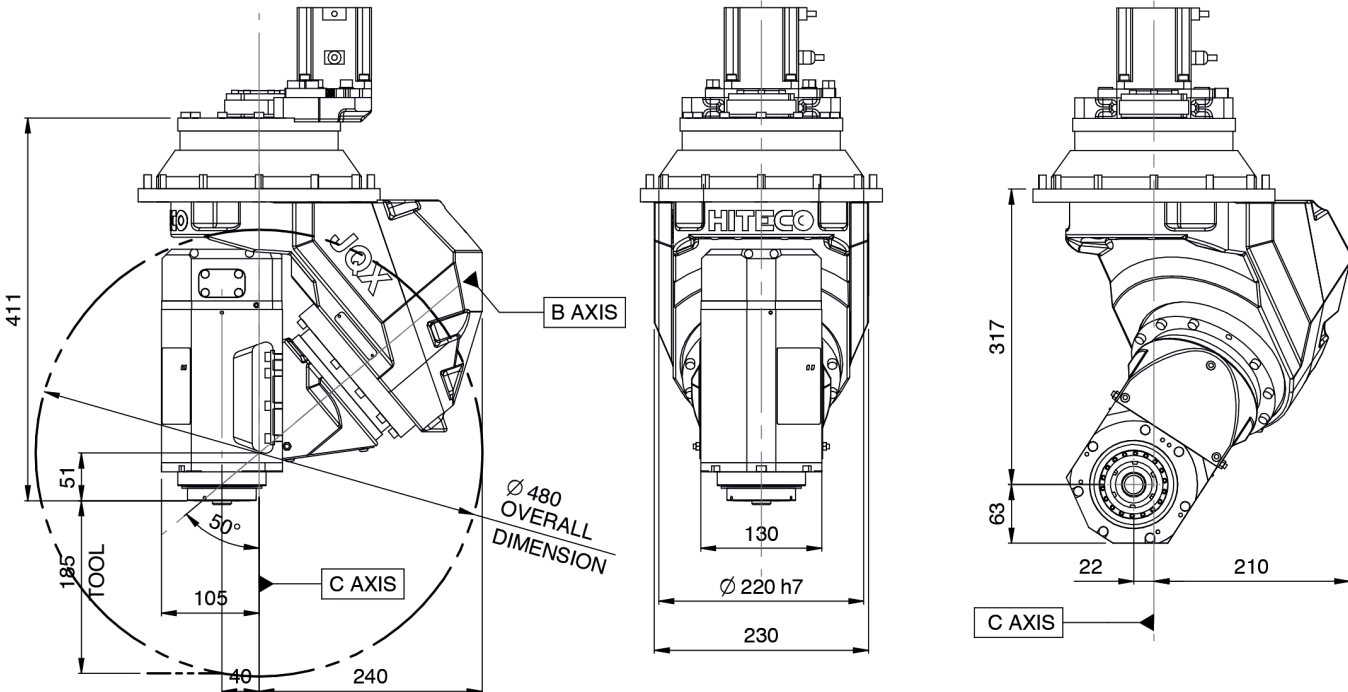
ORBITAL K

p.**10**

ORBITAL H

p.**12**

ORBITAL J



SPECIFICHE TECNICHE TECHNICAL SPECIFICATIONS

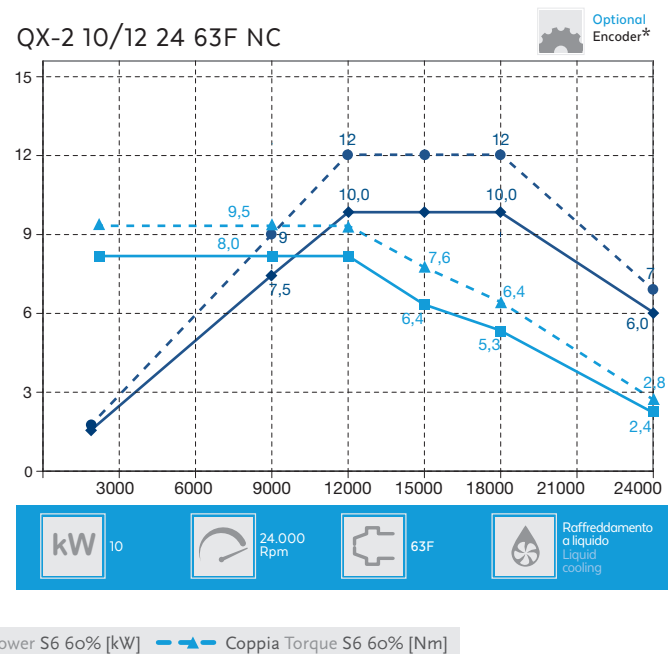
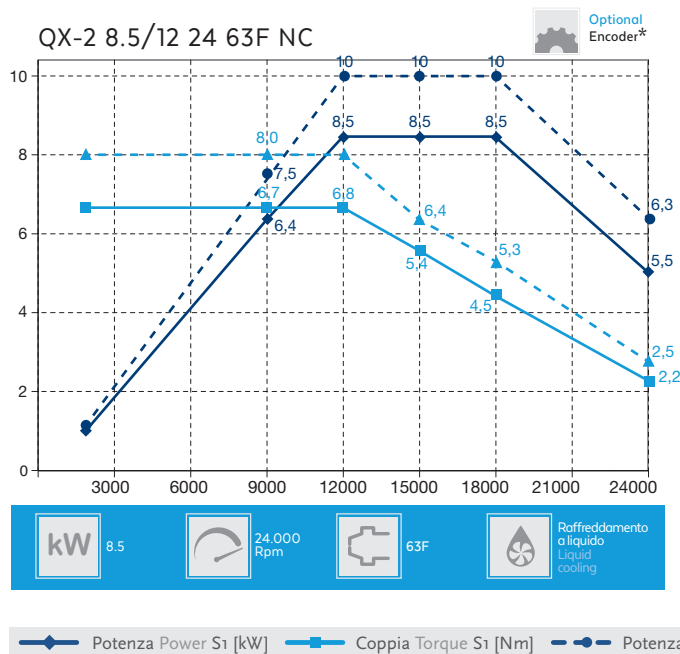
	Asse B	Asse C
Servomotore Servomotor	Yaskawa*	Yaskawa*
Potenza servomotore Servomotor power	0,4 kW	0,4 kW
Encoder servomotore Servomotor encoder	Assoluto Absolute 20 Bit	Assoluto Absolute 20 Bit
Riduttore Gearbox	Harmonic Drive	Harmonic Drive
Coppia max continua Max. continuous torque	320 Nm	320 Nm
Coppia di picco Peak torque	570 Nm	570 Nm
Max rotazione asse Max axis rotation	±185°	±320°
Freni meccanici Mechanical blocking of axes	No	No
Velocità posizionamento max Max. positioning speed	7.000°/'	7.000°/'
Velocità di lavoro max Max operating speed	4.000°/'	4.000°/'
Precisione di posizionamento assi Positioning precision of axes	1 arcmin	1 arcmin
Peso Weight	55 kg	

*Sono disponibili altre marche di motorizzazioni a richiesta
*Other engine brands are available on demand

ORBITAL J



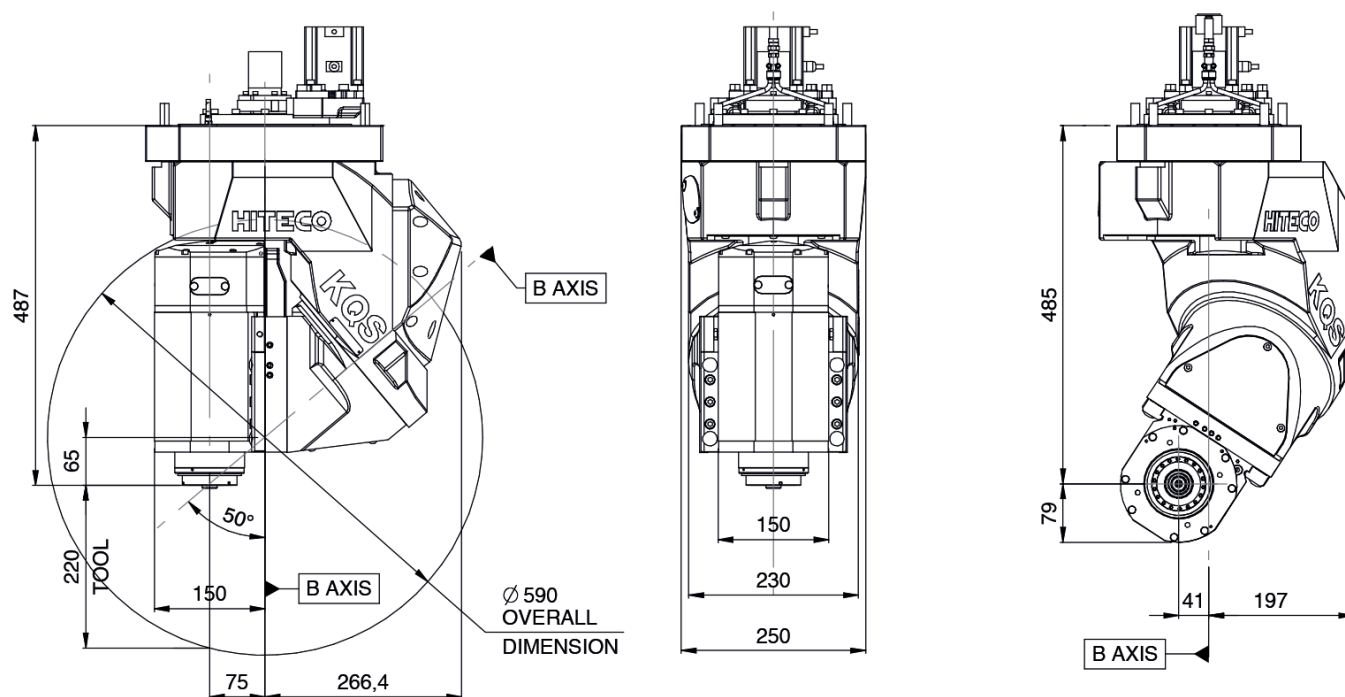
MANDRINI DISPONIBILI AVAILABLE ELECTROSPINDLES



* L'opzionale encoder prevede un layout differente rispetto a quello rappresentato nello schema

* When the unit is with encoder the layout differs from the one represented in the plan

ORBITAL K



SPECIFICHE TECNICHE TECHNICAL SPECIFICATIONS

	Asse B	Asse C
Servomotore Servomotor	Yaskawa*	Yaskawa*
Potenza servomotore Servomotor power	0,4 kW	0,4 kW
Encoder servomotore Servomotor encoder	Assoluto Absolute 20 Bit	Assoluto Absolute 20 Bit
Riduttore Gearbox	Harmonic Drive	Harmonic Drive
Coppia max continua Max. continuous torque	320 Nm	320 Nm
Coppia di picco Peak torque	570 Nm	570 Nm
Max rotazione asse Max axis rotation	±185°	±320°
Freni meccanici Mechanical blocking of axes	No	Si Yes
Velocità posizionamento max Max. positioning speed	7.000°/'	7.000°/'
Velocità di lavoro max Max operating speed	4.000°/'	4.000°/'
Precisione di posizionamento assi Positioning precision of axes	1 arcmin	1 arcmin
Peso Weight	100 kg	

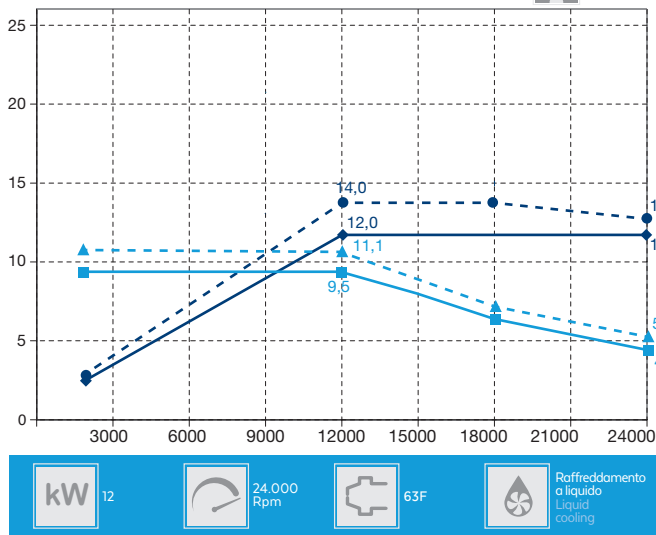
*Sono disponibili altre marche di motorizzazioni a richiesta
 *Other engine brands are available on demand

ORBITAL K

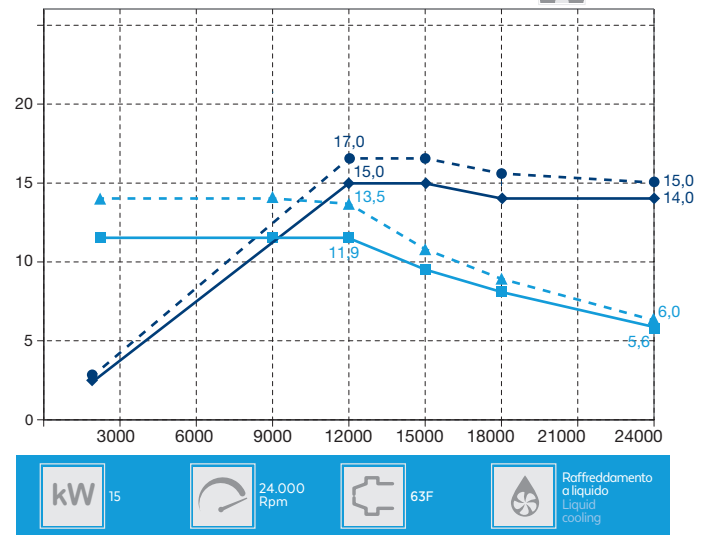


MANDRINI DISPONIBILI AVAILABLE ELECTROSPINDLES

QS-2 12/12 24 63F NC

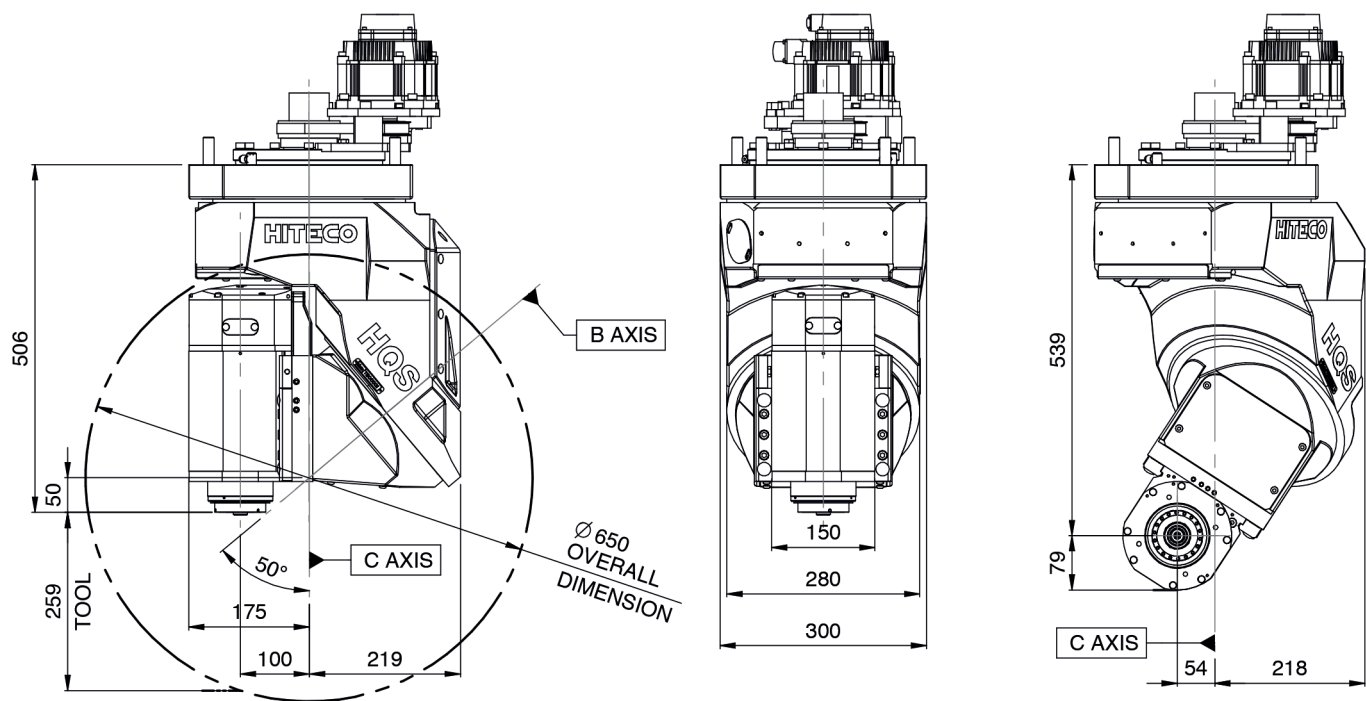


QS-2 15/12 24 63F



—●— Potenza Power S1 [kW] —■— Coppia Torque S1 [Nm] —●— Potenza Power S6 60% [kW] —▲— Coppia Torque S6 60% [Nm]

ORBITAL H



SPECIFICHE TECNICHE TECHNICAL SPECIFICATIONS

	Asse B	Asse C
Servomotore Servomotor	Yaskawa*	Yaskawa*
Potenza servomotore Servomotor power	0,75 kW	0,85 kW
Encoder servomotore Servomotor encoder	Assoluto Absolute 20 Bit	Assoluto Absolute 20 Bit
Riduttore Gearbox	Sumitomo	Harmonic Drive
Coppia max continua Max. continuous torque	320 Nm	670 Nm
Coppia di picco Peak torque	740 Nm	980 Nm
Max rotazione asse Max axis rotation	±185°	±320°
Freni meccanici Mechanical blocking of axes	Sì Yes	Sì Yes
Velocità posizionamento max Max. positioning speed	10.000°/'	11.500°/'
Velocità di lavoro max Max operating speed	4.500°/'	5.500°/'
Precisione di posizionamento assi Positioning precision of axes	1 arcmin	1 arcmin
Peso Weight	140 kg	

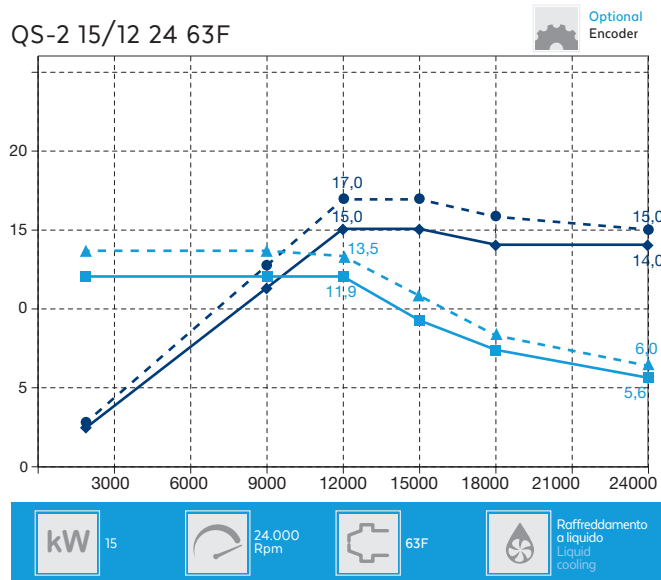
*Sono disponibili altre marche di motorizzazioni a richiesta
*Other engine brands are available on demand

ORBITAL H

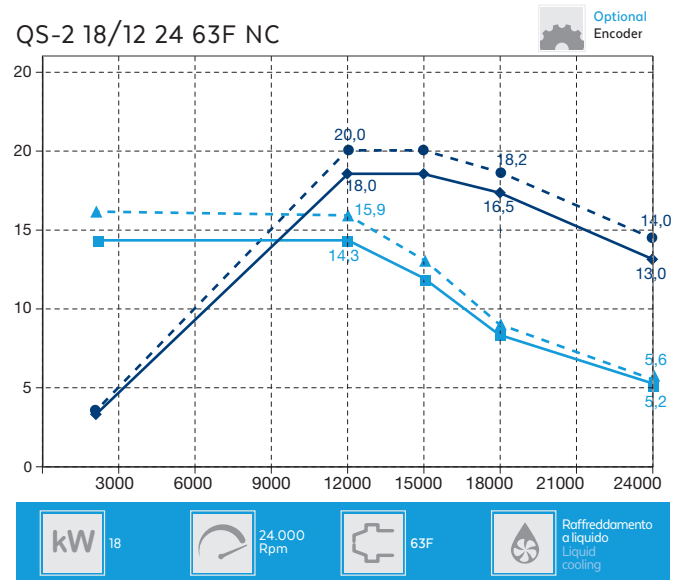


MANDRINI DISPONIBILI AVAILABLE ELECTROSPINDLES

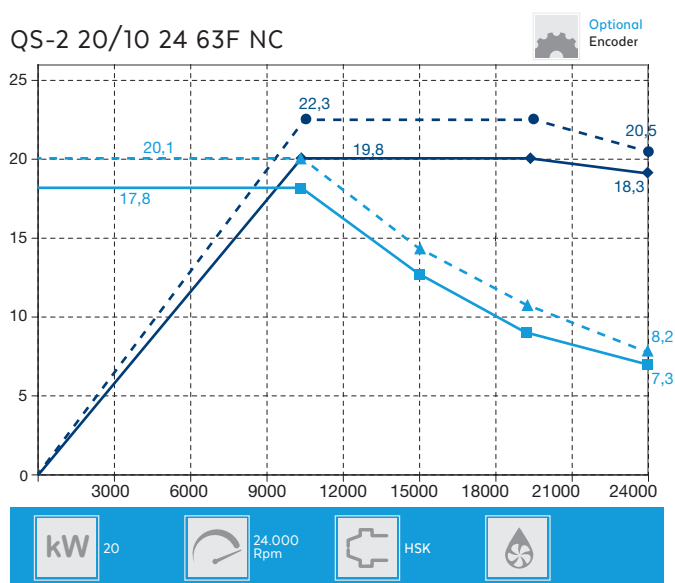
QS-2 15/12 24 63F



QS-2 18/12 24 63F NC



QS-2 20/10 24 63F NC



—●— Potenza Power S1 [kW] —■— Coppia Torque S1 [Nm] —●— Potenza Power S6 60% [kW] —■— Coppia Torque S6 60% [Nm]





SERIE TILT

TILT J **p.16**

TILT K **p.18**

TILT H **p.20**

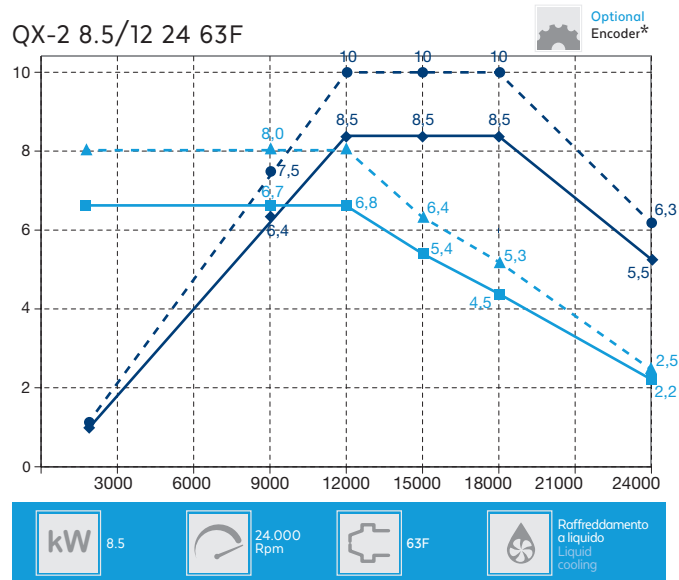
TILT TLP **p.22**

TILT J

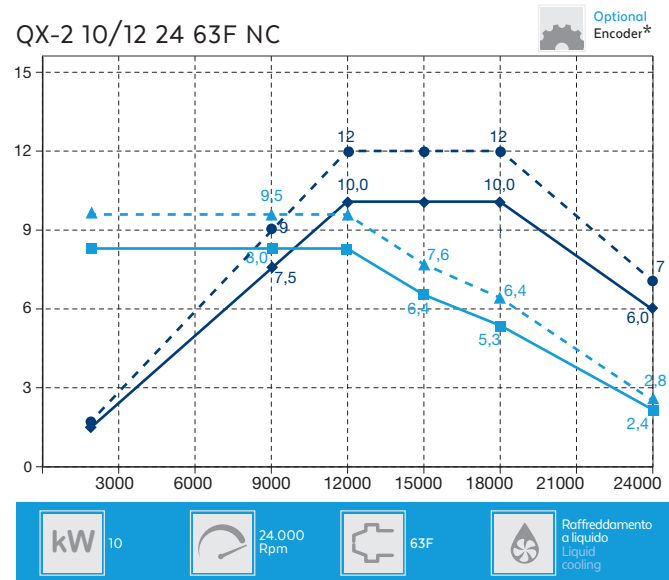


MANDRINI DISPONIBILI AVAILABLE ELECTROSPINDLES

QX-2 8.5/12 24 63F



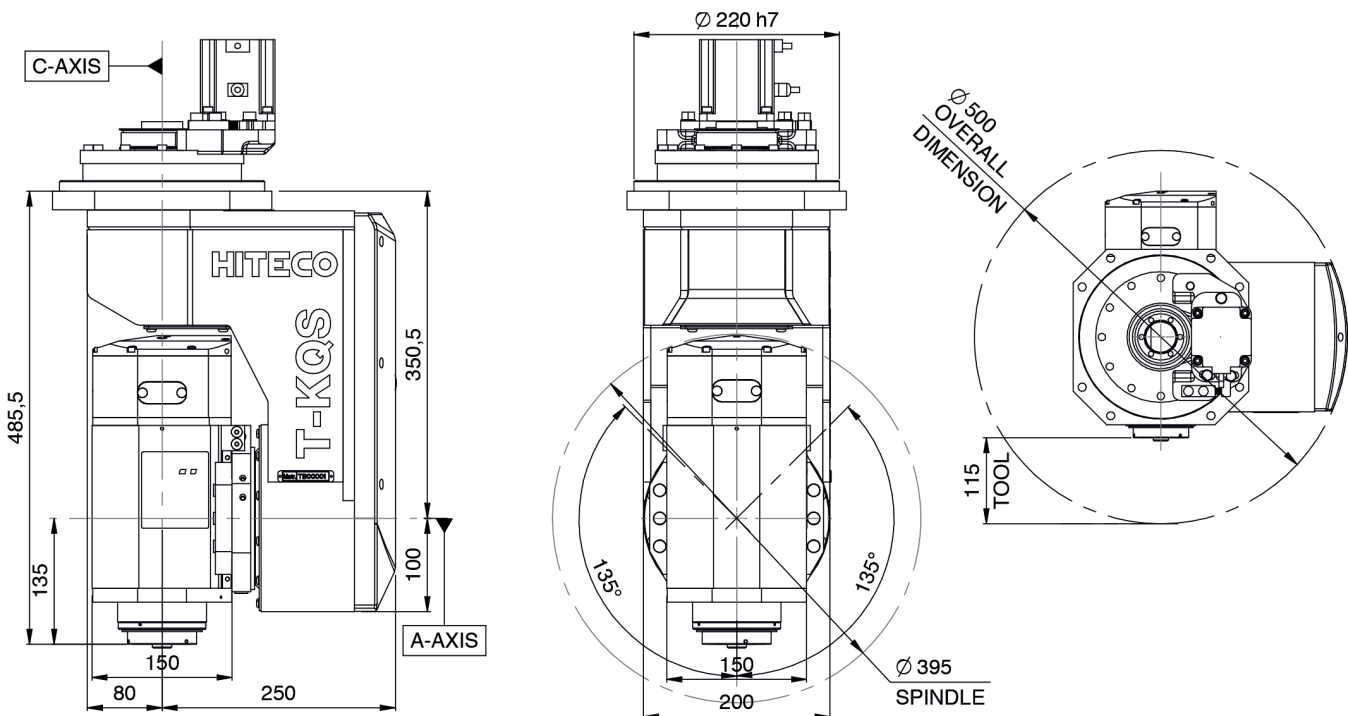
QX-2 10/12 24 63F NC



* L'opzionale encoder prevede un layout differente rispetto a quello rappresentato nello schema

* When the unit is with encoder the layout differs from the one represented in the plan

TILT K



SPECIFICHE TECNICHE TECHNICAL SPECIFICATIONS

	Asse A	Asse C
Servomotore Servomotor	Yaskawa*	Yaskawa*
Potenza servomotore Servomotor power	0,40 kW	0,40 kW
Encoder servomotore Servomotor encoder	Assoluto Absolute 20 Bit	Assoluto Absolute 20 Bit
Riduttore Gearbox	Harmonic Drive	Harmonic Drive
Coppia max continua Max. continuous torque	380 Nm	380 Nm
Coppia di picco Peak torque	570 Nm	570 Nm
Max rotazione asse Max axis rotation	± 135°	± 320°
Freni meccanici Mechanical blocking of axes	No	No
Velocità posizionamento max Max. positioning speed	6.100°/'	6.100°/'
Velocità di lavoro max Max operating speed	3.700°/'	3.700°/'
Precisione di posizionamento assi Positioning precision of axes	1 arcmin	1 arcmin
Peso Weight	100 kg	

*Sono disponibili altre marche di motorizzazioni a richiesta
*Other engine brands are available on demand

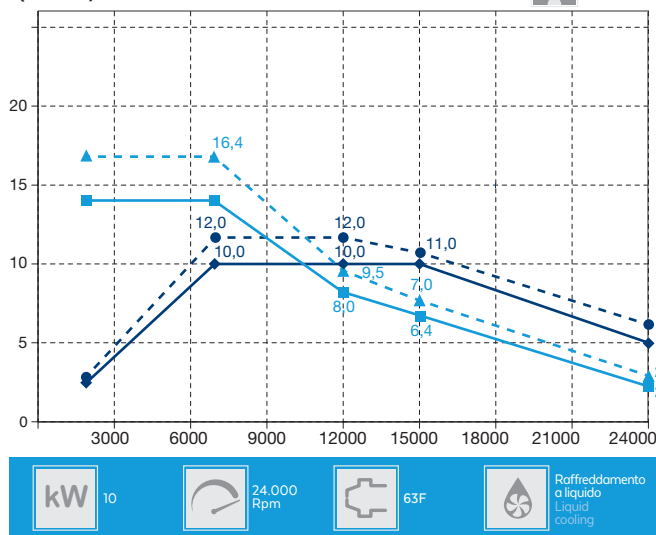
TILT K



MANDRINI DISPONIBILI AVAILABLE ELECTROSPINDLES

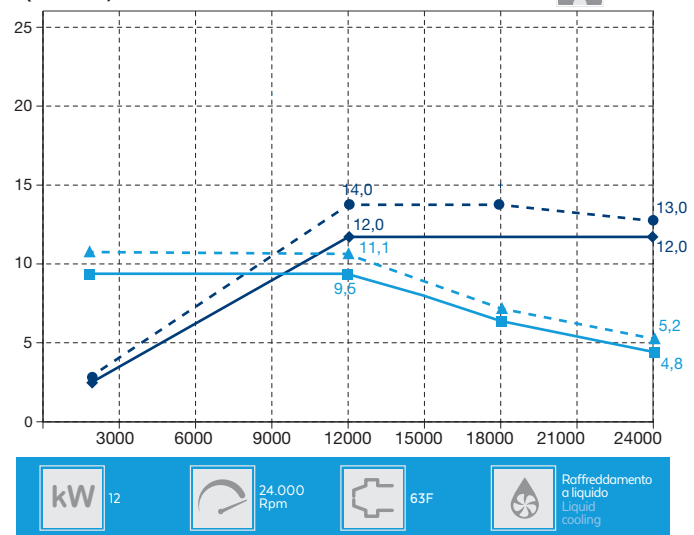
QS- 10/7 24 63F NC

Optional Encoder



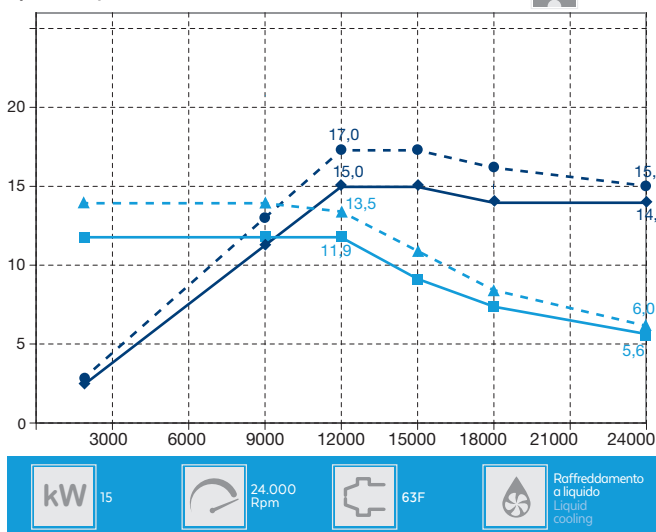
QS-2 12/12 24 63F NC

Optional Encoder



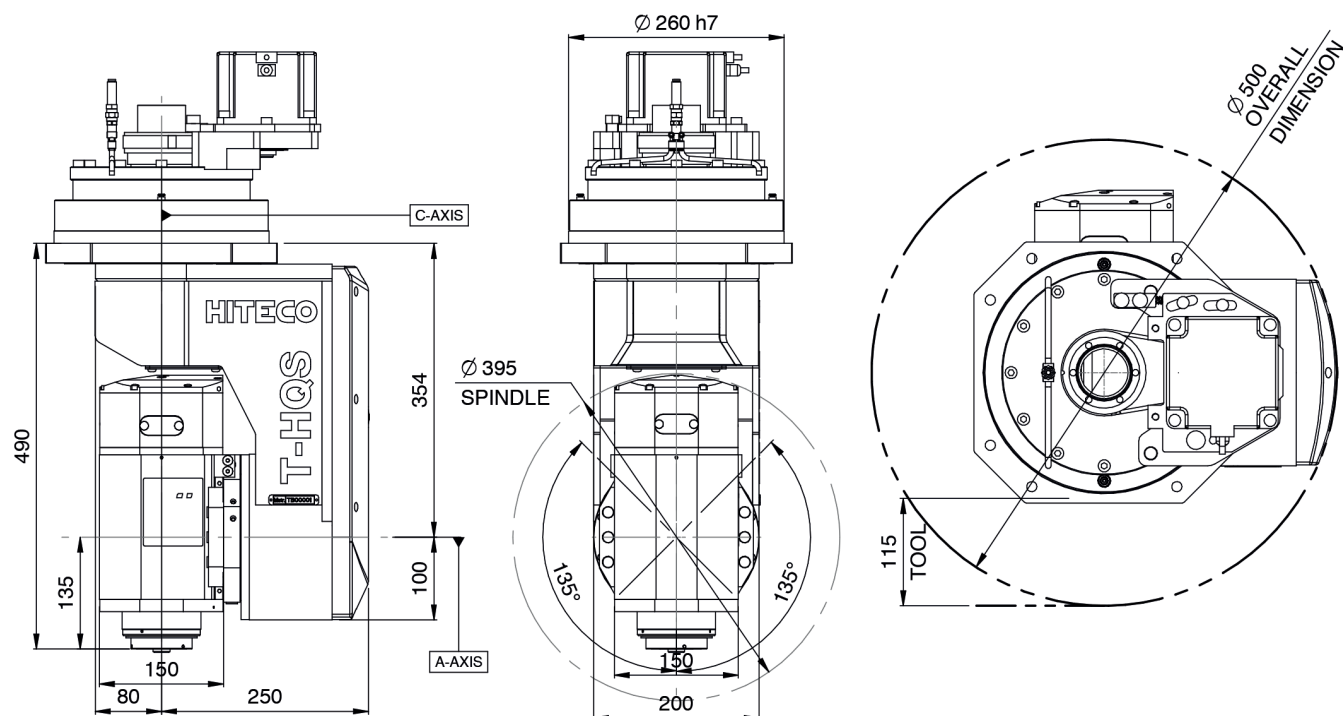
QS-2 15/12 24 63F

Optional Encoder



—●— Potenza Power S1 [kW] —■— Coppia Torque S1 [Nm] —●— Potenza Power S6 60% [kW] —■— Coppia Torque S6 60% [Nm]

TILT H



SPECIFICHE TECNICHE TECHNICAL SPECIFICATIONS

	Asse A	Asse C
Servomotore Servomotor	Yaskawa*	Yaskawa*
Potenza servomotore Servomotor power	0,40 kW	0,75 kW
Encoder servomotore Servomotor encoder	Assoluto Absolute 20 Bit	Assoluto Absolute 20 Bit
Riduttore Gearbox	Harmonic Drive	Harmonic Drive
Coppia max continua Max. continuous torque	380 Nm	460 Nm
Coppia di picco Peak torque	570 Nm	980 Nm
Max rotazione asse Max axis rotation	± 135°	± 320°
Freni meccanici Mechanical blocking of axes	Si Yes (TORX)	Si Yes (TTS)
Velocità posizionamento max Max. positioning speed	6.100°/'	9.300°/'
Velocità di lavoro max Max operating speed	3.700°/'	5.600°/'
Precisione di posizionamento assi Positioning precision of axes	1 arcmin	1 arcmin
Peso Weight	120 kg	

*Sono disponibili altre marche di motorizzazioni a richiesta

*Other engine brands are available on demand

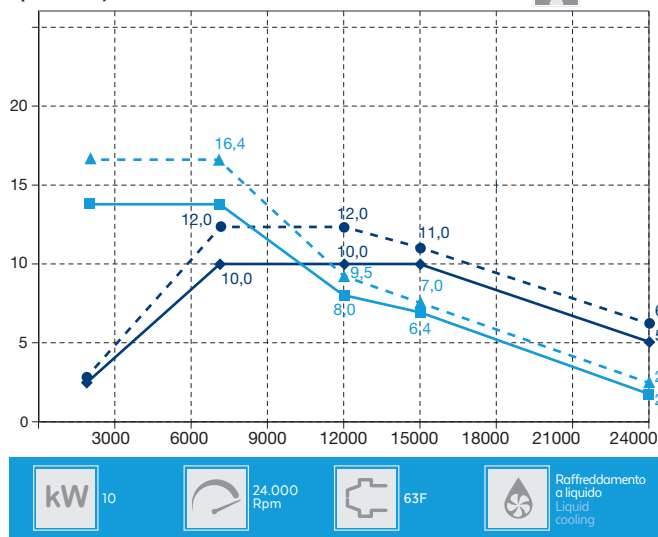
TILT H



MANDRINI DISPONIBILI AVAILABLE ELECTROSPINDLES

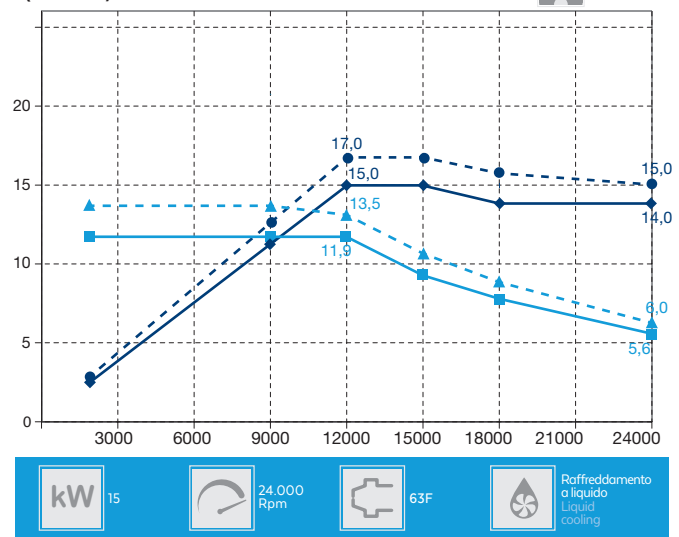
QS-2 10/7 24 63F NC

Optional Encoder



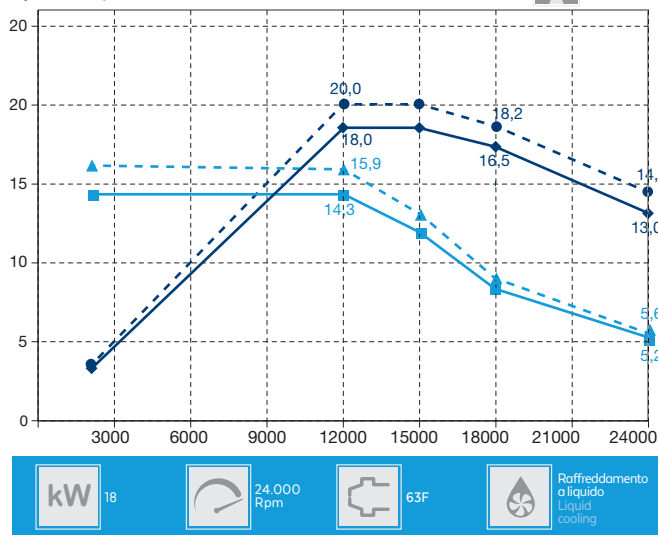
QS-2 15/12 24 63F NC

Optional Encoder



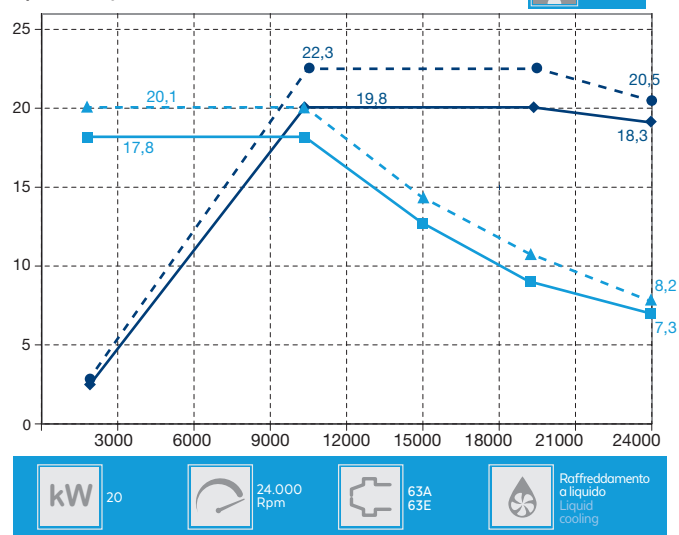
QS-2 18/12 24 63F NC

Optional Encoder



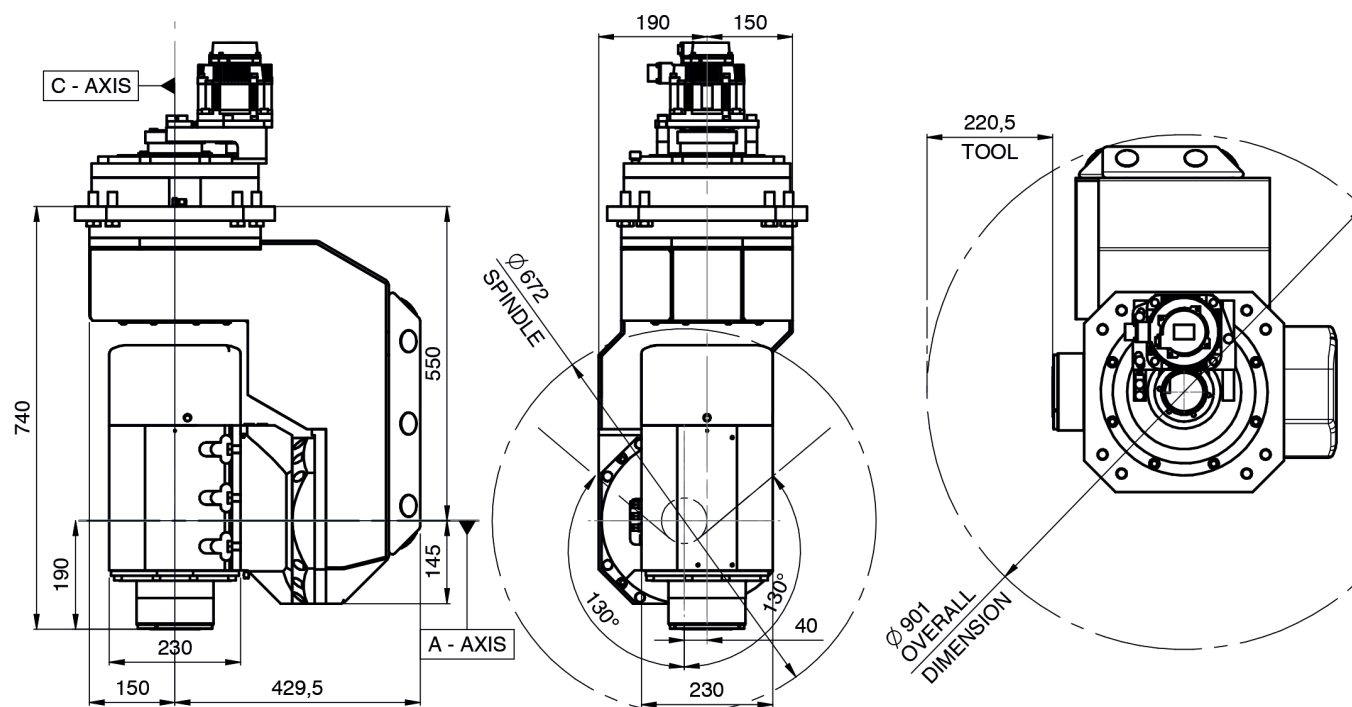
QS-2 20/10 24 63A NC SYNCHRONOUS TECHNOLOGY

Standard encoder



—●— Potenza Power S1 [kW] —■— Coppia Torque S1 [Nm] —●— Potenza Power S6 60% [kW] —■— Coppia Torque S6 60% [Nm]

TILT TLP



SPECIFICHE TECNICHE TECHNICAL SPECIFICATIONS

	Asse A	Asse C
Servomotore Servomotor	Yaskawa*	Yaskawa*
Potenza servomotore Servomotor power	0,85 kW	0,85 kW
Encoder servomotore Servomotor encoder	Assoluto Absolute 20 Bit	Assoluto Absolute 20 Bit
Riduttore Gearbox	Sumitomo	Sumitomo
Coppia max continua Max. continuous torque	720 Nm	550 Nm
Coppia di picco Peak torque	1720 Nm	1420 Nm
Max rotazione asse Max axis rotation	± 100°	± 320°
Freni meccanici Mechanical blocking of axes	Sì Yes	Sì Yes
Velocità posizionamento max Max. positioning speed	10.000°/'	12.000°/'
Velocità di lavoro max Max operating speed	4.500°/'	7.000°/'
Precisione di posizionamento assi Positioning precision of axes	1 arcmin	1 arcmin
Peso Weight	200 kg	

*Sono disponibili altre marche di motorizzazioni a richiesta

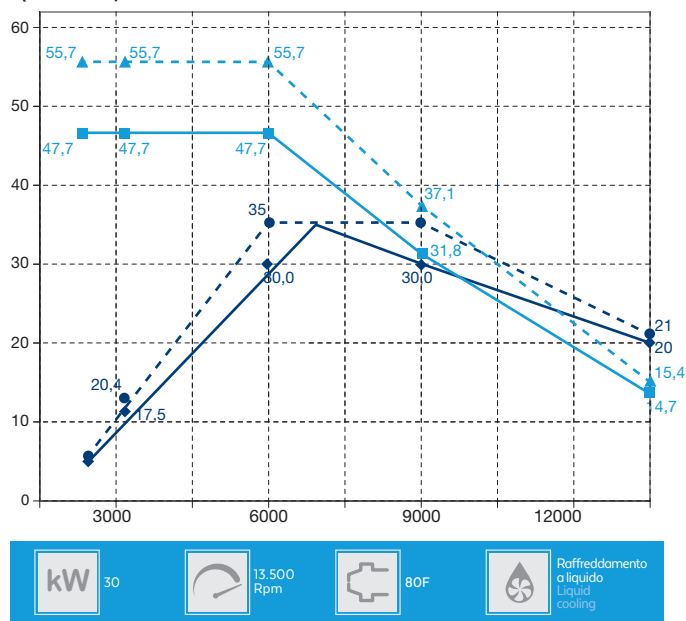
*Other engine brands are available on demand

TILT TLP

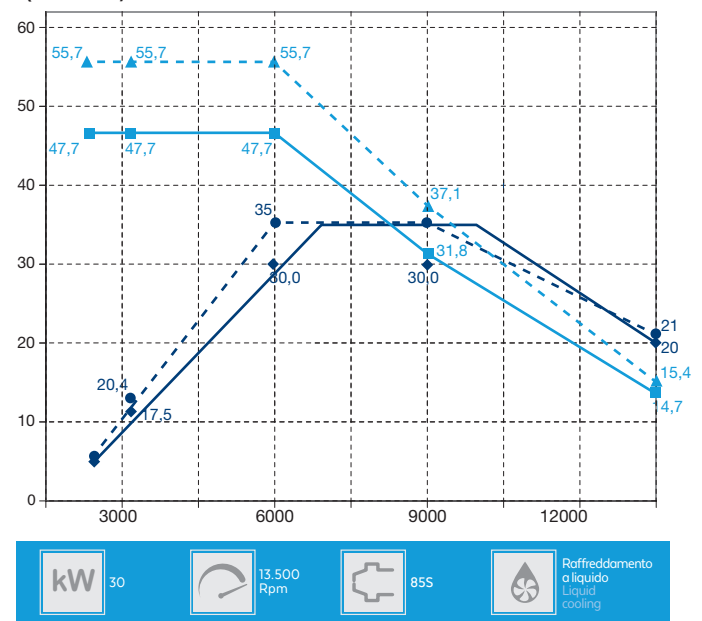


MANDRINI DISPONIBILI AVAILABLE ELECTROSPINDLES

QM-2 30/6 13 80F NC



QM-2 30/6 13 85S NC



—●— Potenza Power S1 [kW] —■— Coppia Torque S1 [Nm] —●— Potenza Power S6 60% [kW] —▲— Coppia Torque S6 60% [Nm]

