

2 ACHS-FRÄSKÖPFE BIROTARY UNITS



High-tech Komponenten für Werkzeugmaschinenhersteller.

--
High-tech components for machine tool manufacturers.

Hiteco hat sich spezialisiert auf die Entwicklung und die Herstellung von High-tech und elektromechanischen Komponenten für Werkzeug und Bearbeitungsmaschinen. **Werkzeugwechselspindeln mit und ohne automatischem Werkzeugwechsel, 2-Achs Fräsköpfe, Mehrspindelbohrköpfe und Aggregate.**

--
Hiteco is specialized in design and manufacture of high technology industrial electromechanical components for machine tools. **A.T.C. electrospindles, M.T.C. electrospindles, birotary heads, boring units and aggregates.**



Hiteco verfügt über ein großes Spektrum an Produkten für den internationalen Maschinebaumarkt für **Holz, Aluminium, Plastik, Composite, Glas und Stein** sowie für die **Metallverarbeitung**.

--
Hiteco offers a wide range of products on international market for **wood, plastic, advanced materials, glass, stone and metal processing**.



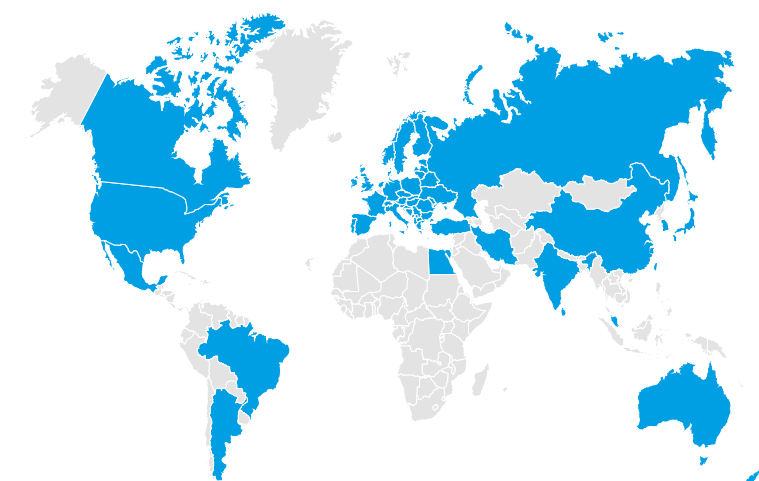
Hiteco wurde im Jahr 1977 als international tätige Division der **SCM Gruppe**, eine der weltweit führenden Hersteller von Bearbeitungsmaschinen für die Verarbeitung unterschiedlichen Materialien, gegründet. Im Jahre 2008 wurde die Hiteco als eine eigenständige **Tochterfirma** der SCM Gruppe für **die Belieferung des Weltmarktes ausgegliedert**. Heute produziert und liefert Hiteco eine Vielzahl von Kernprodukten und Komponenten in den Weltmarkt und gehört in diesem Bereich zu einem der führenden Anbieter.

--
Hiteco founded in 1977 as an internal division of the **SCM Group**, leading company in machine tools construction for processing a wide range of materials, had an increasingly exponential growth. In 2008 it become **a profit unit for external customers**. Today Hiteco offers key products for the components market, becoming one of the most important world players in the sector.



Ein verzweigte Netzwerk für einen erstklassigen und weltweiten Service.

--
A capillary presence for a **best-in-class** and **worldwide service**.



Der weltweite Vertrieb der Hiteco Produkte entspricht der Philosophie des Unternehmens, durch die Präsenz von **ausgebildeten Technikern** nahe am Kunde zu sein, um schnelle Reaktionszeiten Vorort zu gewährleisten. Hierbei sollen nicht nur Maschinenstillstandzeiten und Produktionsprobleme reduziert werden, sondern es soll dadurch auch ein Mehrwert durch effektive Lösungsvorschläge geschaffen werden. Diese Strategie führt auch neben verkürzten Lieferzeiten dazu, dass Hiteco die höchste **Kundenzufriedenheit** in den Märkten erzielt.

--
The widespread distribution of the company responds to the desire of Hiteco to be close to the customer with the presence of **specialized technicians** on the territory who guarantee an extremely rapid and professional response: not only to reduce machine downtimes and production problems, but also to create added value with the proposal of effective and innovative solutions. Such care, in addition to reduced delivery times, is one of the reason that led Hiteco to have the highest **customer satisfaction** on the international market.



INHALT INDEX

Technische Daten und Abbildungen sind unverbindlich. Für eine kontinuierliche Weiterentwicklung von Produkten und Dienstleistungen behält sich HITECO das Recht vor, Änderungen ohne vorherige Ankündigung vorzunehmen.

Technical data and illustrations are not binding and, for the constant development of products and services, HITECO reserves the right to make modifications without prior notice.



p.6 **ORBITAL (50°) SERIES**

Holz and composite / Wood and advanced materials

- p. 6 Orbital J
- p. 8 Orbital K
- p. 10 Orbital H

p.12 **TILT (90°) SERIES**

Composite, Leichtaluminium, Plastik und Holz / Advanced materials, light alloys, plastic and wood

- p. 12 Tilt J
- p. 14 TILT J HIGH SPEED
- p. 16 Tilt K
- p. 18 Tilt H
- p. 20 Tilt V
- p. 22 Tilt W
- p. 24 Tilt TLP

WOOD

PLASTIC

ADVANCED
MATERIALS

LIGHT
ALLOYS



WOOD
ADVANCED
MATERIALS

Technical drawings of the 1000 Series Vertical Machining Center showing three views: front, top, and side. The front view shows a vertical spindle with a 50-degree angle and a 480mm overall dimension. The top view shows a circular base with a 240mm diameter and a 40mm offset. The side view shows a 317mm height and a 210mm width. Dimensions are in millimeters.

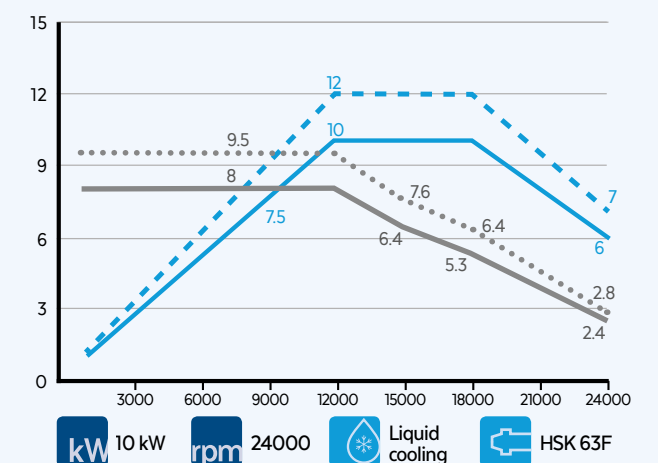
 Temperaturüberwachung der Lager
 Bearings temperature monitoring

 Drehzahlfassung
 Speed monitoring

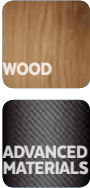
 Vibrationssensor
 Vibration sensor

 Encoder*

	B AXIS	C AXIS
Servomotor / Servomotor	Yaskawa*	Yaskawa*
Servomotorleistung / Servomotor power	0,4 kW	0,4 kW
Encoder Servomotor / Servomotor encoder	Absolute 20 Bit	Absolute 20 Bit
Getriebe / Gearbox	Harmonic Drive	Harmonic Drive
Maximales Dauerdrehmoment / Max. continuous torque	320 Nm	320 Nm
Spitzendrehmoment / Peak torque	570 Nm	570 Nm
Maximale Drehachse / Max axis rotation	±185°	±320°
Mechanische Bremsen / Mechanical blocking of axes	Nein No	Nein No
Positioniergeschwindigkeit max / Max. positioning speed	7.000°/‘	7.000°/‘
Maximale Betriebsgeschwindigkeit / Max operating speed	4.000°/‘	4.000°/‘
Positionierachsen Präzision / Axis positioning accuracy	1 arcmin	1 arcmin
Gewicht / Weight		55 kg



ORBITAL SERIES
ORBITAL K

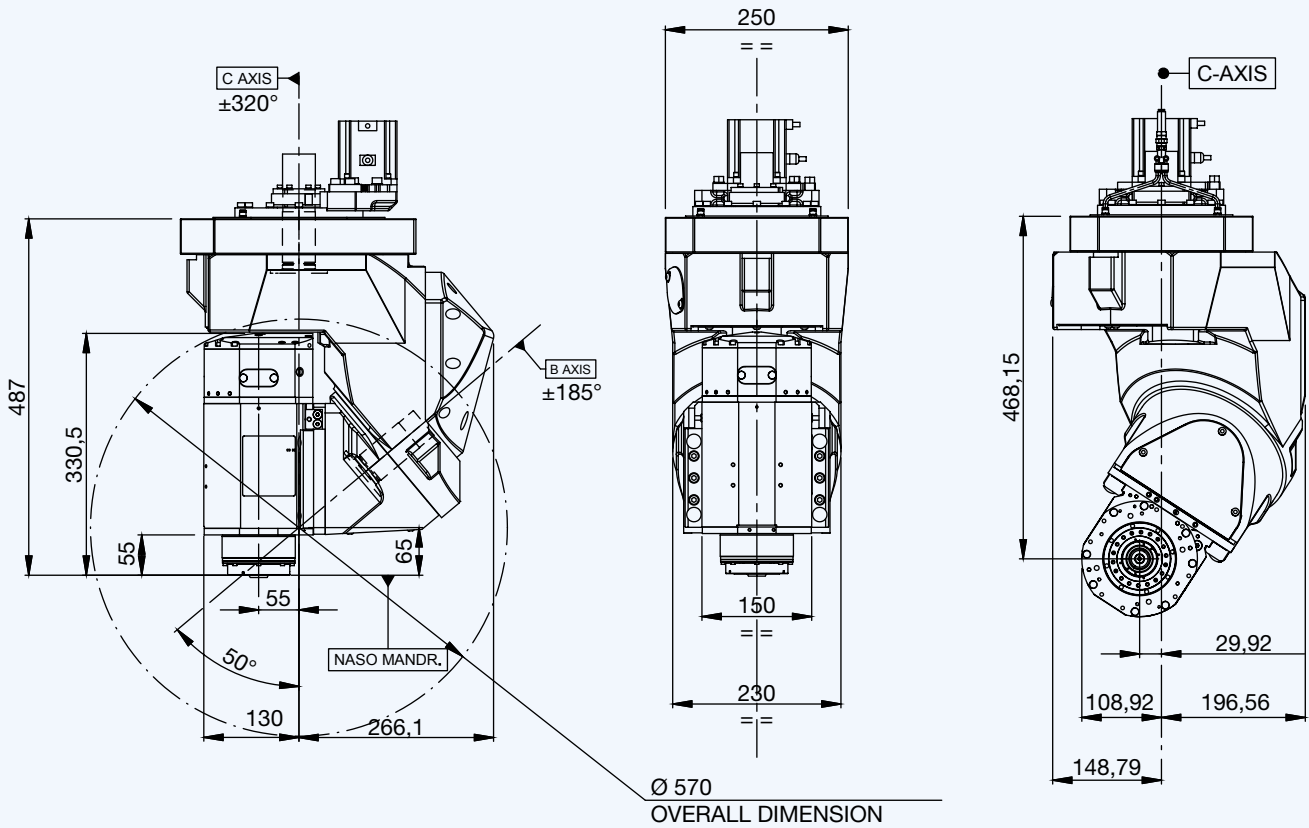


TECHNISCHE DATEN / TECHNICAL SPECIFICATIONS

*Verfügbar andere Marke
*Other engine brands are available on demand

	B AXIS	C AXIS
Servomotor / Servomotor	Yaskawa*	Yaskawa*
Servomotorleistung / Servomotor power	0,4 kW	0,4 kW
Encoder Servomotor / Servomotor encoder	Absolute 20 Bit	Absolute 20 Bit
Getriebe / Gearbox	Harmonic Drive	Harmonic Drive
Maximales Dauerdrehmoment / Max. continuous torque	320 Nm	320 Nm
Spitzendrehmoment / Peak torque	570 Nm	570 Nm
Maximale Drehachse / Max axis rotation	±185°	±320°
Mechanische Bremsen / Mechanical blocking of axes	Nein No	Ja Yes
Positioniergeschwindigkeit max / Max. positioning speed	7.000°/'	7.000°/'
Maximale Betriebsgeschwindigkeit / Max operating speed	4.000°/'	4.000°/'
Positionierachsen Präzision / Axis positioning accuracy	1 arcmin	1 arcmin
Gewicht / Weight		100 kg

LAYOUT

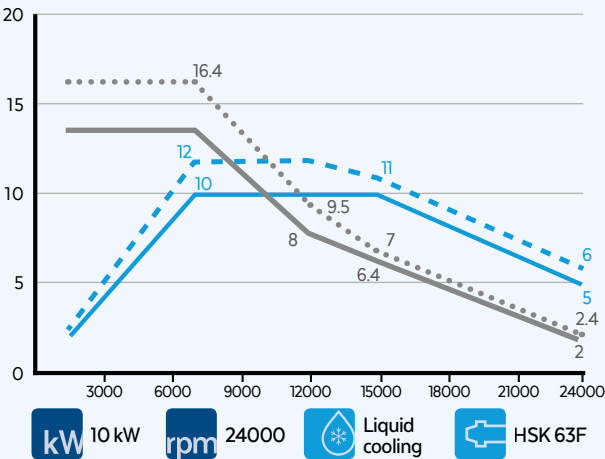


SPINDELOPTIENEN / ELECTROSPINDLE OPTIONS

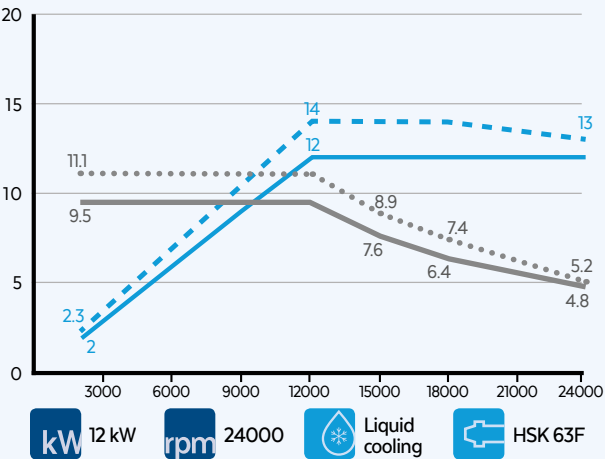
- Lange Nase / Long nose
- HSK 63E
- HSK 63A
- Temperaturüberwachung der Lager / Bearings temperature monitoring
- Drehzahlfassung / Speed monitoring
- Vibrationssensor / Vibration sensor
- Encoder

VERFÜGBARE SPINDELN / AVAILABLE ELECTROSPINDLES

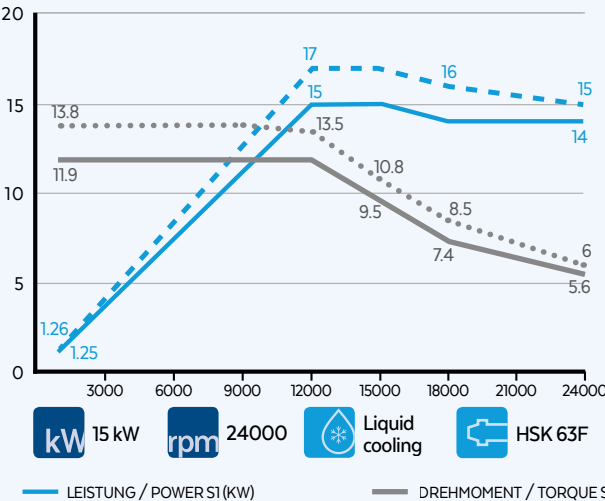
PX-2 10/7 24 63F NC



PX-2 12/12 24 63F NC

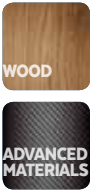


PX-2 15/12 24 63F NC



— LEISTUNG / POWER SI (kW) — DREHMOMENT / TORQUE SI (NM) — — LEISTUNG / POWER S6 50% (kW) DREHMOMENT / TORQUE S6 50% (NM)

ORBITAL SERIES
ORBITAL H

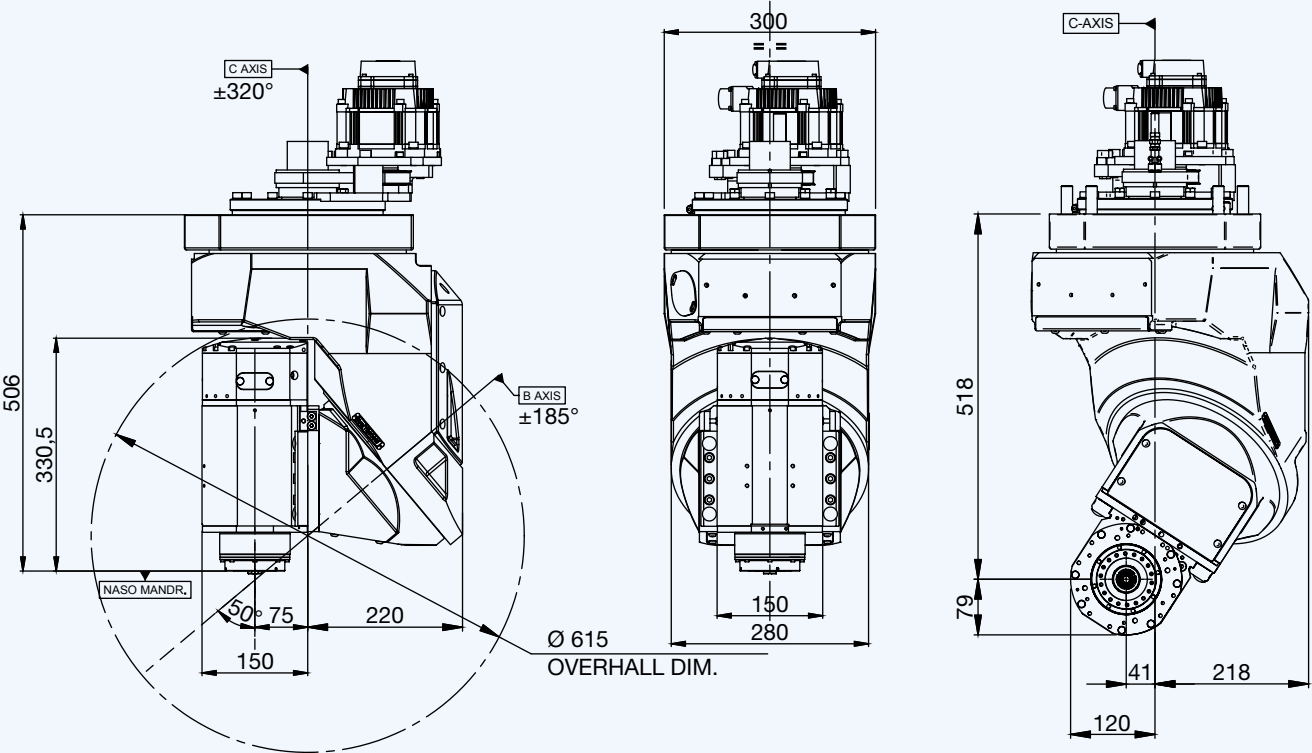


TECHNISCHE DATEN / TECHNICAL SPECIFICATIONS

*Verfügbar andere Marke
*Other engine brands are available on demand

	B AXIS	C AXIS
Servomotor / Servomotor	Yaskawa*	Yaskawa*
Servomotorleistung / Servomotor power	0,75 kW	0,85 kW
Encoder Servomotor / Servomotor encoder	Absolute 20 Bit	Absolute 20 Bit
Getriebe / Gearbox	Sumitomo	Harmonic Drive
Maximales Dauerdrehmoment / Max. continuous torque	320 Nm	670 Nm
Spitzendrehmoment / Peak torque	740 Nm	980 Nm
Maximale Drehachse / Max axis rotation	±185°	±320°
Mechanische Bremsen / Mechanical blocking of axes	Ja Yes	Ja Yes
Positioniergeschwindigkeit max / Max. positioning speed	10.000°/'	11.500°/'
Maximale Betriebsgeschwindigkeit / Max operating speed	4.500°/'	5.500°/'
Positionierachsen Präzision / Axis positioning accuracy	1 arcmin	1 arcmin
Gewicht / Weight	140 kg	

LAYOUT

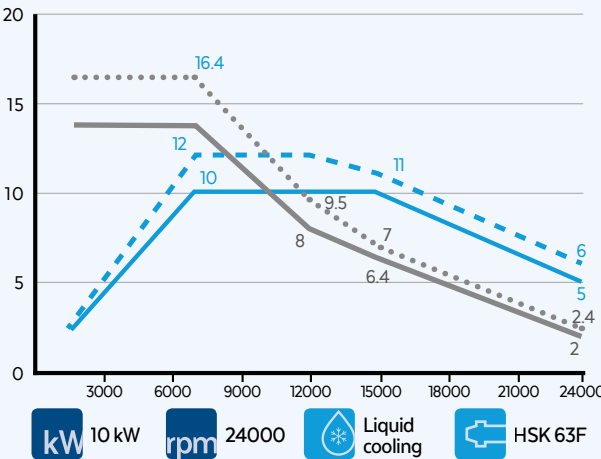


SPINDELOPTIENEN / ELECTROSPINDLE OPTIONS

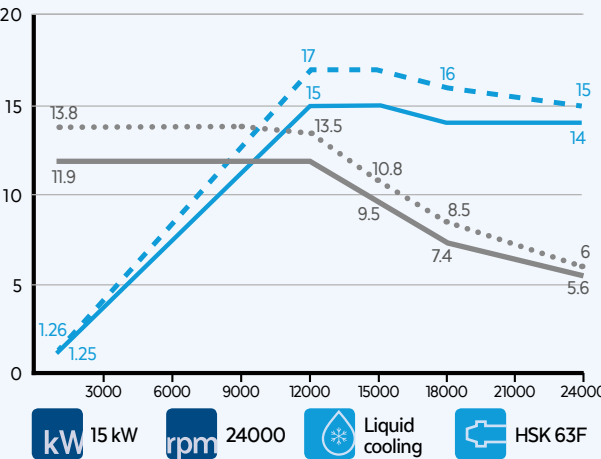
- Lange Nose / Long nose
- HSK 63E
- HSK 63A (Standard on 20 kW)
- Temperaturüberwachung der Lager / Bearings temperature monitoring
- Drehzahlfassung / Speed monitoring
- Vibrationssensor / Vibration sensor
- Encoder

VERFÜGBARE SPINDELN / AVAILABLE ELECTROSPINDLES

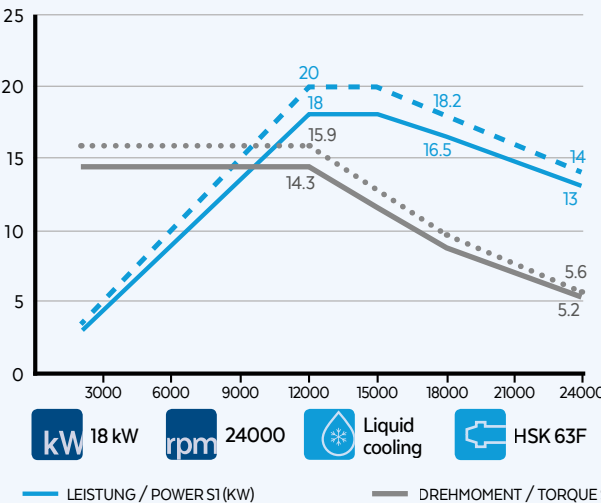
PX-2 10/7 24 63F NC ASYNCHRONOUS



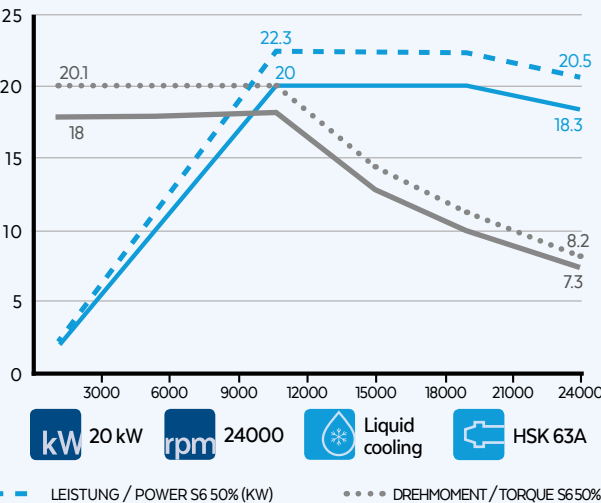
PX-2 15/12 24 63F NC ASYNCHRONOUS



PX-2 18/12 24 63F NC ASYNCHRONOUS



PX-2 20/10 24 63A NC ES ASYNCHRONOUS





ADVANCED
MATERIALS
PLASTIC

Technical drawing of the 3-axis machine tool showing three views: side, front, and top.

- Side View:** Shows the machine's profile. Key dimensions include a total height of 355, a base width of 240, and a spindle height of 115. The spindle is labeled "C-AXIS".
- Front View:** Shows the machine's front. Key dimensions include a total width of 190, a spindle diameter of $\varnothing 220\ h7$, and a base diameter of $\varnothing 330$ SPINDLE. The spindle is labeled "A-AXIS".
- Top View:** Shows the machine's top. Key dimensions include a base diameter of $\varnothing 480$ OVERALL DIMENSION and a spindle diameter of $\varnothing 330$ SPINDLE.

* When the unit is with encoder the quote increases by 25 mm from the one represented in the plan

	A AXIS	C AXIS
Servomotor / Servomotor	Yaskawa*	Yaskawa*
Servomotorleistung / Servomotor power	0,40 kW	0,40 kW
Encoder Servomotor / Servomotor encoder	Absolute 20 Bit	Absolute 20 Bit
Getriebe / Gearbox	Harmonic Drive	Harmonic Drive
Maximales Dauerdrehmoment / Max. continuous torque	380 Nm	380 Nm
Spitzendrehmoment / Peak torque	570 Nm	570 Nm
Maximale Drehachse / Max axis rotation	±120°	±320°
Mechanische Bremsen / Mechanical blocking of axes	Nein No	Nein No
Positioniergeschwindigkeit max / Max. positioning speed	6.100°/’	6.100°/’
Maximale Betriebsgeschwindigkeit / Max operating speed	3.700°/’	3.700°/’
Positionierachsen Präzision / Axis positioning accuracy	1 arcmin	1 arcmin
Gewicht / Weight		60 kg

The graph shows the performance characteristics of the HSK 63F pump. The x-axis represents speed in rpm (0 to 24000), and the y-axis represents power in kW (0 to 15). Two data series are plotted: Power (kW) and Torque (Nm). The Power curve (solid blue line) starts at 10.7 kW at 3000 rpm, peaks at 13.5 kW at 12000 rpm, and ends at 7.5 kW at 24000 rpm. The Torque curve (solid grey line) starts at 8.8 Nm at 3000 rpm, peaks at 11 Nm at 12000 rpm, and ends at 2.4 Nm at 24000 rpm. Dashed lines represent the maximum power and torque limits. The legend indicates that the blue line represents Power (kW) and the grey line represents Torque (Nm).

Speed (rpm)	Power (kW)	Torque (Nm)
3000	10.7	8.8
6000	10.1	8.8
9000	8.3	8.8
12000	13.5	11
15000	13	8.3
18000	12.5	6.6
21000	10	5.3
24000	7.5	2.4

Speed (rpm)	Power (kW)	Liquid Cooling (kW)
3000	1.5	9.5
6000	4.5	9.5
9000	7.5	9.5
12000	8.0	10.0
15000	6.4	7.6
18000	5.3	6.4
21000	4.0	5.0
24000	2.4	2.8

TILT SERIES
TILT J
HIGH SPEED

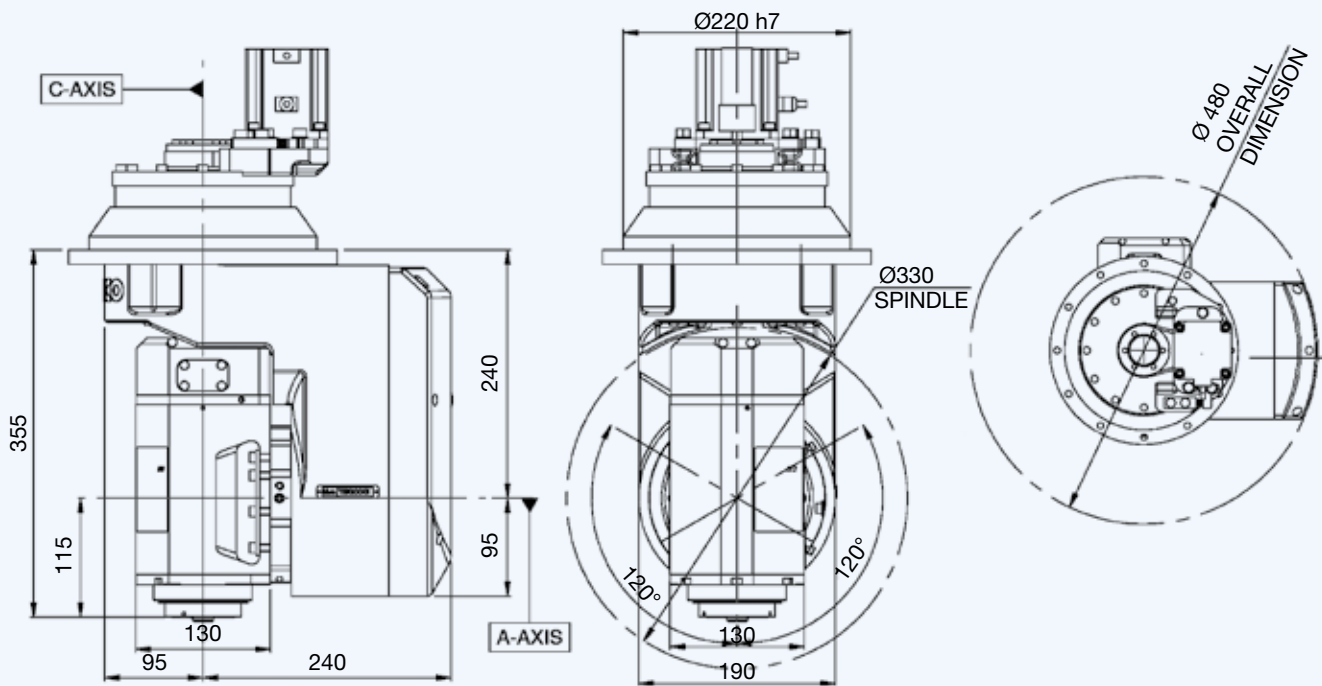


TECHNISCHE DATEN / TECHNICAL SPECIFICATIONS

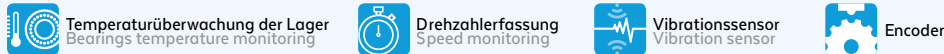
*Verfügbar andere Marke
*Other engine brands are available on demand

	A AXIS	C AXIS
Servomotor / Servomotor	Yaskawa*	Yaskawa*
Servomotorleistung / Servomotor power	0,40 kW	0,40 kW
Encoder Servomotor / Servomotor encoder	Absolute 20 Bit	Absolute 20 Bit
Getriebe / Gearbox	Harmonic Drive	Harmonic Drive
Maximales Dauerdrehmoment / Max. continuous torque	380 Nm	380 Nm
Spitzendrehmoment / Peak torque	570 Nm	570 Nm
Maximale Drehachse / Max axis rotation	±120°	±320°
Mechanische Bremsen / Mechanical blocking of axes	Nein No	Nein No
Positioniergeschwindigkeit max / Max. positioning speed	6.100°/'	6.100°/'
Maximale Betriebsgeschwindigkeit / Max operating speed	3.700°/'	3.700°/'
Positionierachsen Präzision / Axis positioning accuracy	1 arcmin	1 arcmin
Gewicht / Weight		60 kg

LAYOUT



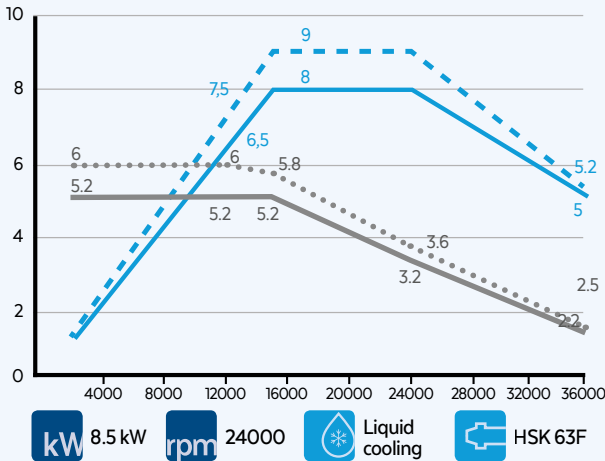
SPINDELOPTIENEN / ELECTROSPINDLE OPTIONS



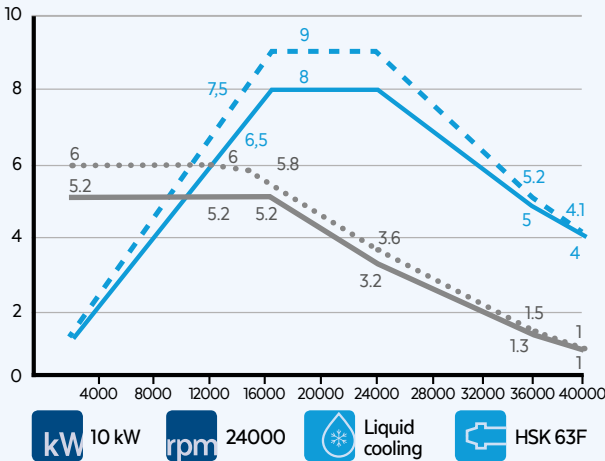
VERFÜGBARE SPINDELN / AVAILABLE ELECTROSPINDLES

*mit dem Encoder die Größe ändern
*When the unit is with encoder the layout differs from the one represented in the plan

QX-2 8/15 36 40E NC ES



QX-2 8/15 40 32E NC ES



— LEISTUNG / POWER S1 (kW) — DREHMOMENT / TORQUE S1 (Nm) — — LEISTUNG / POWER S6 50% (kW) DREHMOMENT / TORQUE S6 50% (Nm)

TILT SERIES
TILT K

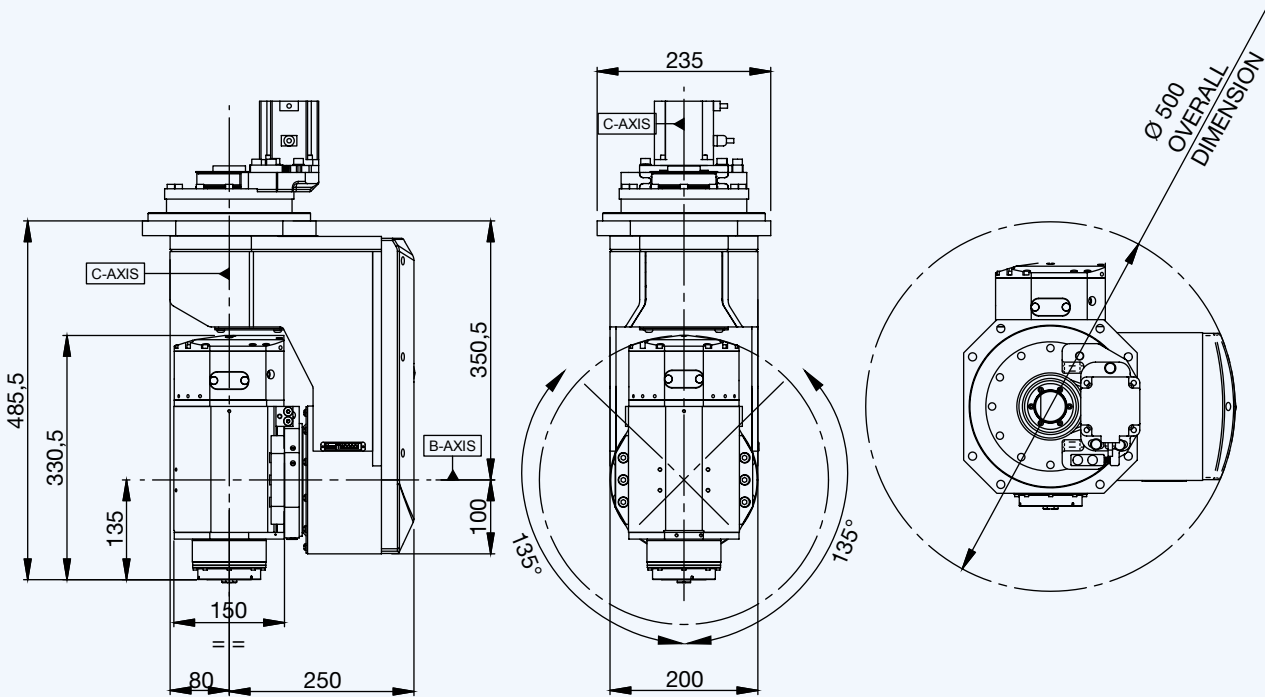


TECHNISCHE DATEN / TECHNICAL SPECIFICATIONS

*Verfügbar andere Marke
*Other engine brands are available on demand

	A AXIS	C AXIS
Servomotor / Servomotor	Yaskawa*	Yaskawa*
Servomotorleistung / Servomotor power	0,40 kW	0,40 kW
Encoder Servomotor / Servomotor encoder	Absolute 20 Bit	Absolute 20 Bit
Getriebe / Gearbox	Harmonic Drive	Harmonic Drive
Maximales Dauerdrehmoment / Max. continuous torque	380 Nm	380 Nm
Spitzendrehmoment / Peak torque	570 Nm	570 Nm
Maximale Drehachse / Max axis rotation	±135°	±320°
Mechanische Bremsen / Mechanical blocking of axes	Nein No	Nein No
Positioniergeschwindigkeit max / Max. positioning speed	6.100°/'	6.100°/'
Maximale Betriebsgeschwindigkeit / Max operating speed	3.700°/'	3.700°/'
Positionierachsen Präzision / Axis positioning accuracy	1 arcmin	1 arcmin
Gewicht / Weight		100 kg

LAYOUT

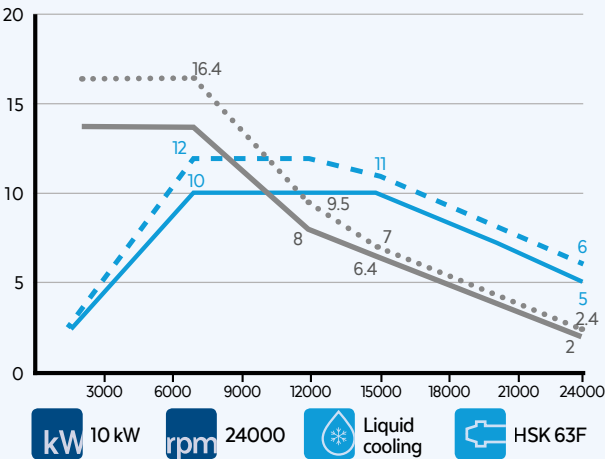


SPINDELOPTIENEN / ELECTROSPINDLE OPTIONS

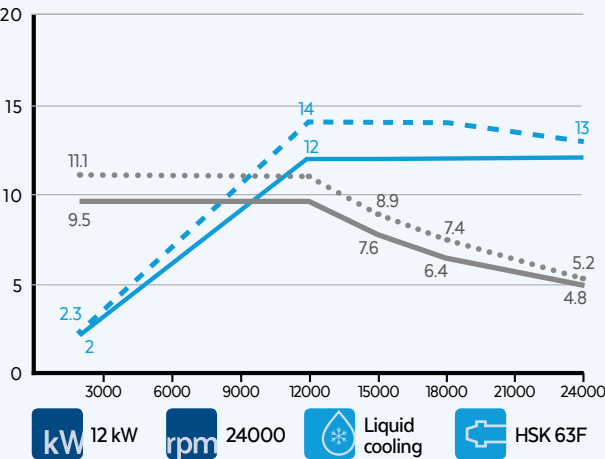
-  Lange Nose
Long nose
-  HSK 63E
-  HSK 63A
-  Temperaturüberwachung der Lager
Bearings temperature monitoring
-  Drehzahlfassung
Speed monitoring
-  Vibrationssensor
Vibration sensor
-  Encoder

VERFÜGBARE SPINDELN / AVAILABLE ELECTROSPINDLES

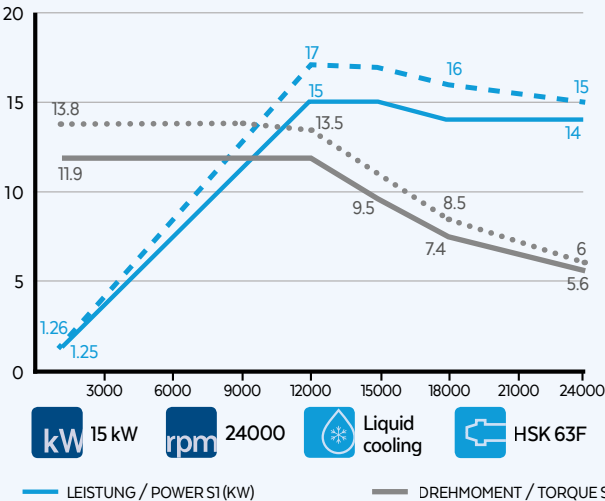
PX-2 10/7 24 63F NC



PX-2 12/12 24 63F NC



PX-2 15/12 24 63F NC



TILT SERIES
TILT H



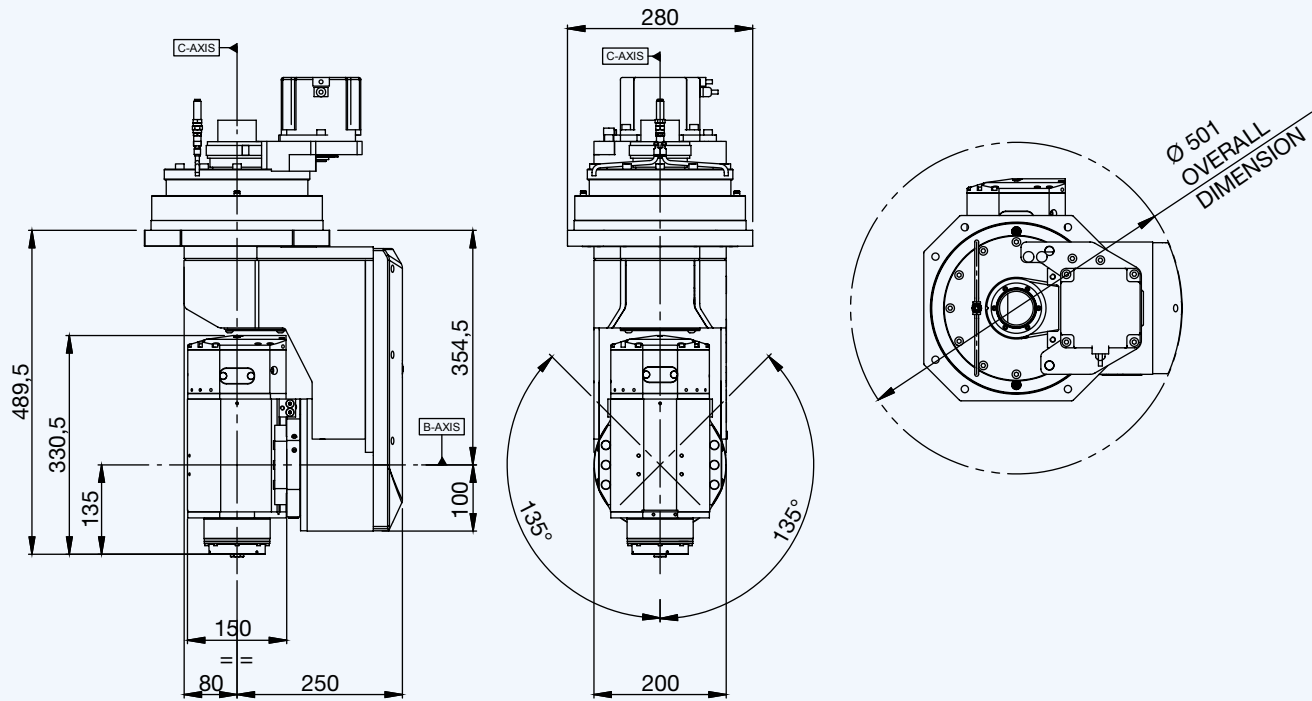
- LIGHT ALLOYS
- ADVANCED MATERIALS
- PLASTIC

TECHNISCHE DATEN / TECHNICAL SPECIFICATIONS

*Verfügbar andere Marke
*Other engine brands are available on demand

	A AXIS	C AXIS
Servomotor / Servomotor	Yaskawa*	Yaskawa*
Servomotorleistung / Servomotor power	0,40 kW	0,75 kW
Encoder Servomotor / Servomotor encoder	Absolute 20 Bit	Absolute 20 Bit
Getriebe / Gearbox	Harmonic Drive	Harmonic Drive
Maximales Dauerdrehmoment / Max. continuous torque	380 Nm	460 Nm
Spitzendrehmoment / Peak torque	570 Nm	980 Nm
Maximale Drehachse / Max axis rotation	±135°	±320°
Mechanische Bremsen / Mechanical blocking of axes	Ja Yes (TORX)	Ja Yes (TTS)
Positioniergeschwindigkeit max / Max. positioning speed	6.100°/'	9.300°/'
Maximale Betriebsgeschwindigkeit / Max operating speed	3.700°/'	5.600°/'
Positionierachsen Präzision / Axis positioning accuracy	1 arcmin	1 arcmin
Gewicht / Weight	120 kg	

LAYOUT

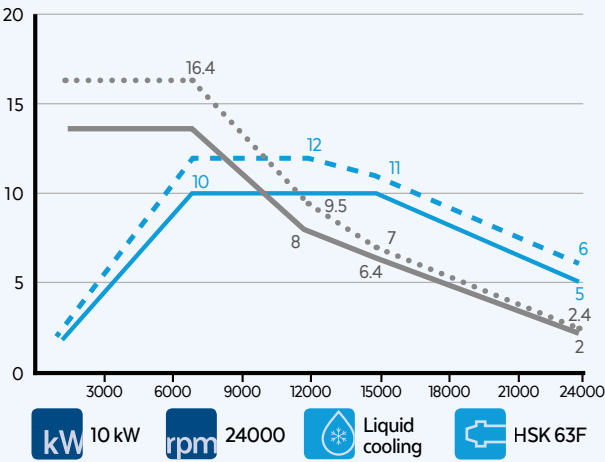


SPINDELOPTIENEN / ELECTROSPINDLE OPTIONS

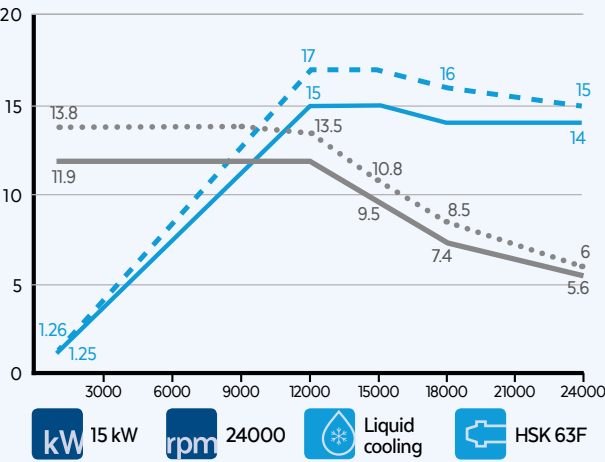
- Lange Nose Long nose
- HSK 63E
- HSK 63A (Standard on 20 kw)
- Temperaturüberwachung der Lager Bearings temperature monitoring
- Drehzahlerrfassung Speed monitoring
- Vibrationssensor Vibration sensor
- Encoder

VERFÜGBARE SPINDELN / AVAILABLE ELECTROSPINDLES

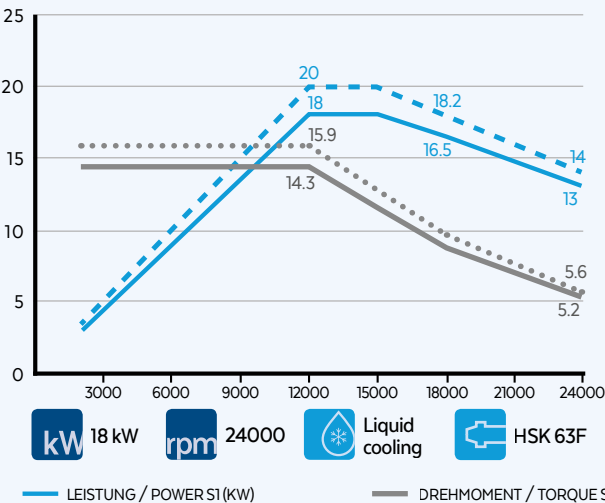
PX-2 10/7 24 63F NC ASYNCHRONOUS



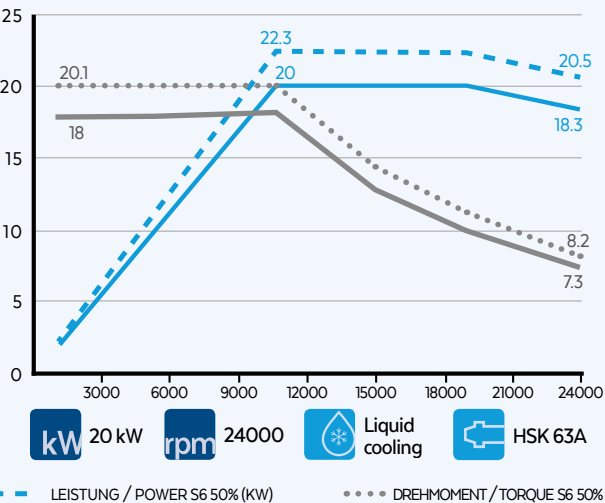
PX-2 15/12 24 63F NC ASYNCHRONOUS



PX-2 18/12 24 63F NC ASYNCHRONOUS



PX-2 20/10 24 63A NC ES ASYNCHRONOUS



TILT SERIES
TILT V

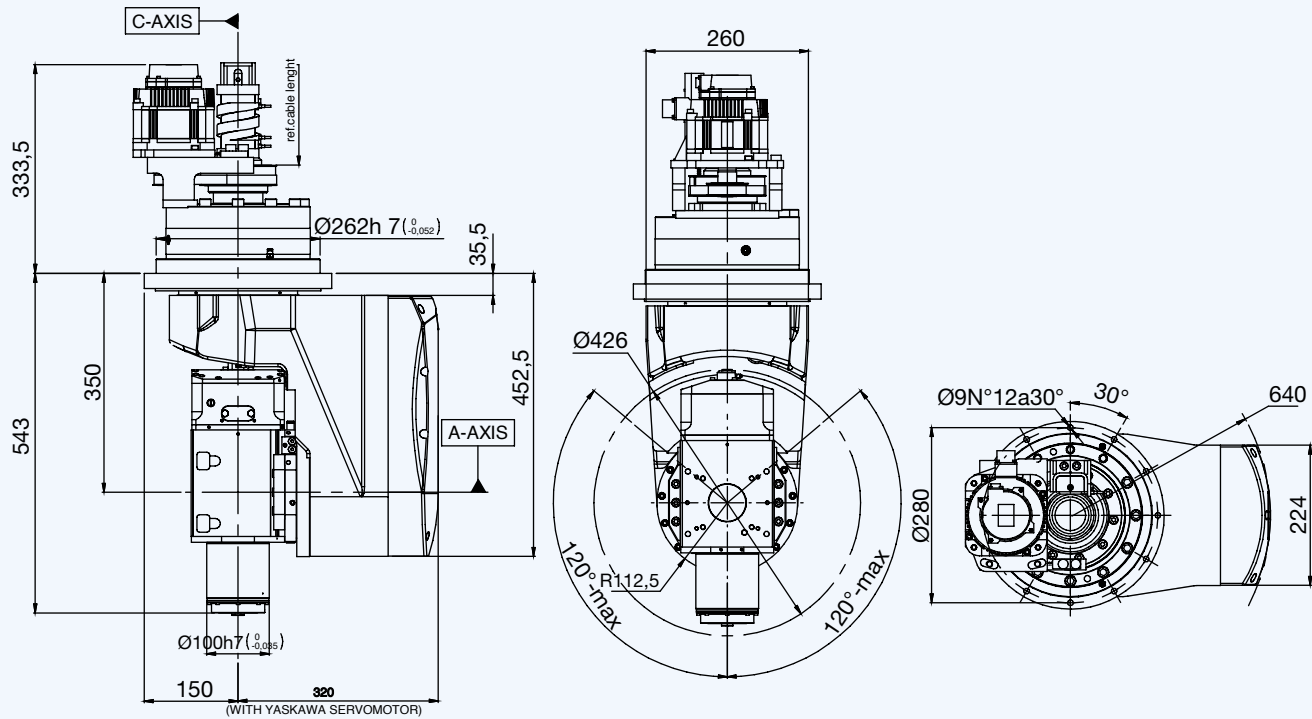


- LIGHT ALLOYS
- ADVANCED MATERIALS
- PLASTIC
- WOOD

TECHNISCHE DATEN / TECHNICAL SPECIFICATIONS

	A AXIS	C AXIS
Servomotor / Servomotor	Yaskawa	Yaskawa
Servomotorleistung / Servomotor power	0,75 kW	0,85 kW
Encoder Servomotor / Servomotor encoder	Absolute 20 Bit	Absolute 20 Bit
Getriebe / Gearbox	Sumitomo	Sumitomo
Maximales Dauerdrehmoment / Max. continuous torque	425 Nm	635 Nm
Spitzendrehmoment / Peak torque	1030 Nm	1962 Nm
Maximale Drehachse / Max axis rotation	±120°	±320°
Mechanische Bremsen / Mechanical blocking of axes	Ja Yes	Ja Yes
Positioniergeschwindigkeit max / Max. positioning speed	10.000°/‘	12.500°/‘
Encoder auf den Achsen Standart / Axis encoder standard	Heidenhain	Heidenhain
Genauigkeit / Accuracy	30 arcsec	30 arcsec
Wiederholgenauigkeit / Repeatability	10 arcsec	10 arcsec
Externer Luftanschluss / External air connections	N° 2 with MQL or OIL MIST	
Gewicht / Weight	150 kg	

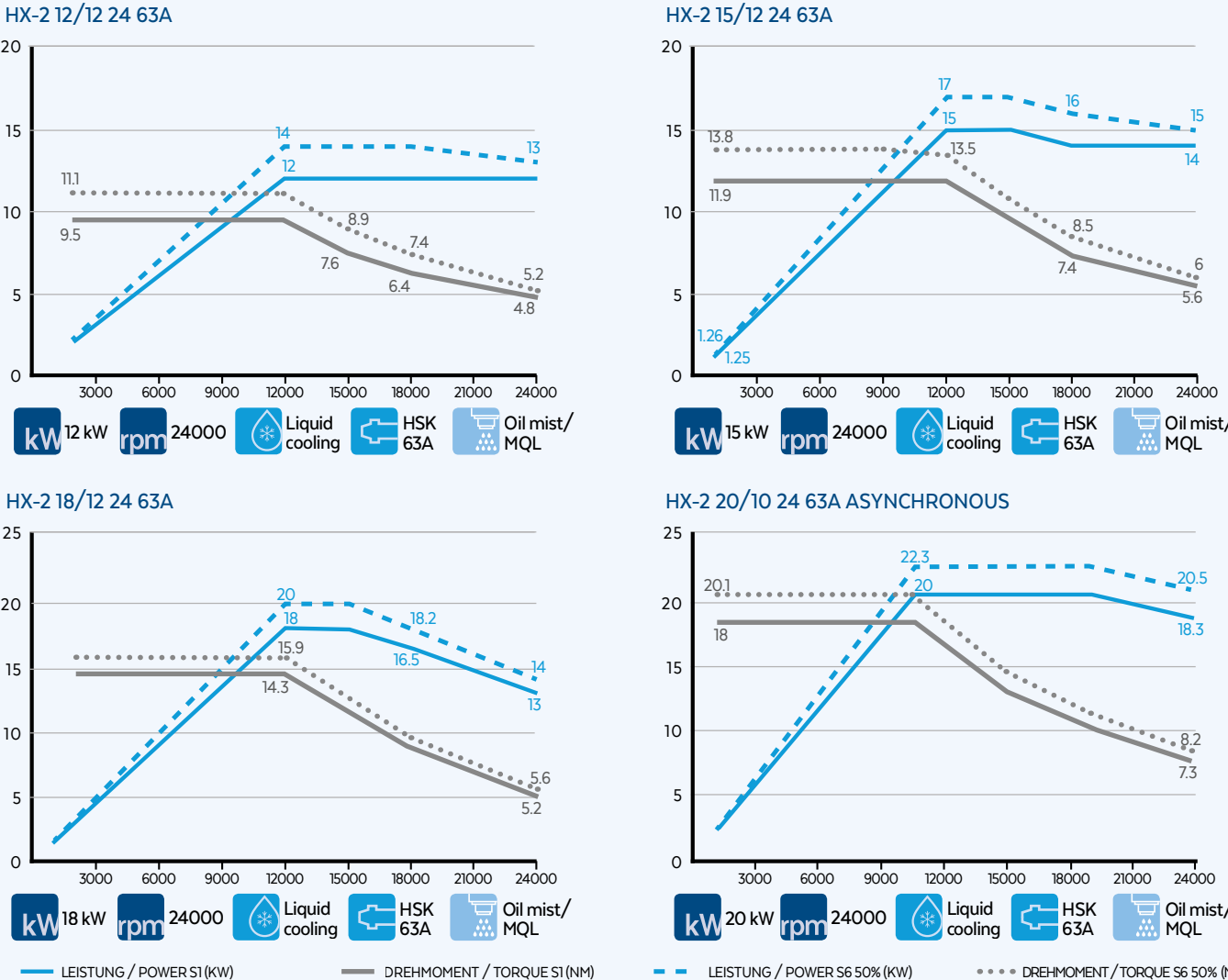
LAYOUT



SPINDELOPTIENEN / ELECTROSPINDLE OPTIONS

- Kurze Nase Short nose
- HSK 63E
- HSK 63F
- Oil mist/ MQL
- Temperaturüberwachung der Lager Bearings temperature monitoring
- Drehzahlerrfassung Speed monitoring
- Vibrationssensor Vibration sensor
- Air tool
- S1-S6 10-16 @7000 rpm

VERFÜGBARE SPINDELN / AVAILABLE ELECTROSPINDLES



TILT SERIES
TILT W

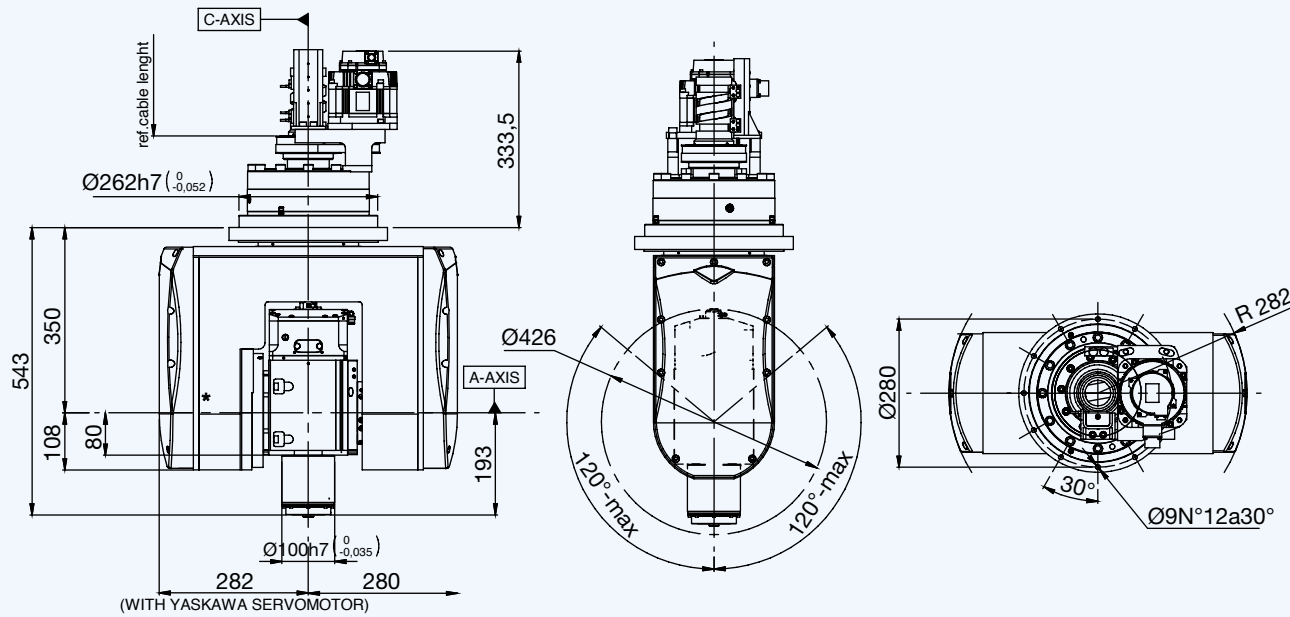


- LIGHT ALLOYS
- ADVANCED MATERIALS
- PLASTIC
- WOOD

TECHNISCHE DATEN / TECHNICAL SPECIFICATIONS

	ASSE A / A AXIS	ASSE C / C AXIS
Servomotor / Servomotor	Yaskawa	Yaskawa
Servomotorleistung / Servomotor power	0,75 kW	0,85 kW
Encoder Servomotor / Servomotor encoder	Absolute 20 Bit	Absolute 20 Bit
Getriebe / Gearbox	Sumitomo	Sumitomo
Maximales Dauerdrehmoment / Max. continuous torque	425 Nm	635 Nm
Spitzendrehmoment / Peak torque	1030 Nm	1962 Nm
Maximale Drehachse / Max axis rotation	±120°	±320°
Mechanische Bremsen / Mechanical blocking of axes	Ja Yes	Ja Yes
Positioniergeschwindigkeit max / Max. positioning speed	10.000°/‘	12.500°/‘
Encoder auf den Achsen Optional / Axis encoder optional	Heidenhain	Heidenhain
Genauigkeit / Accuracy	30 arcsec	30 arcsec
Wiederholgenauigkeit / Repeatability	10 arcsec	10 arcsec
Externer Luftanschluss / External air connections	N° 2 with MQL or OIL MIST	
Gewicht / Weight	210 kg	

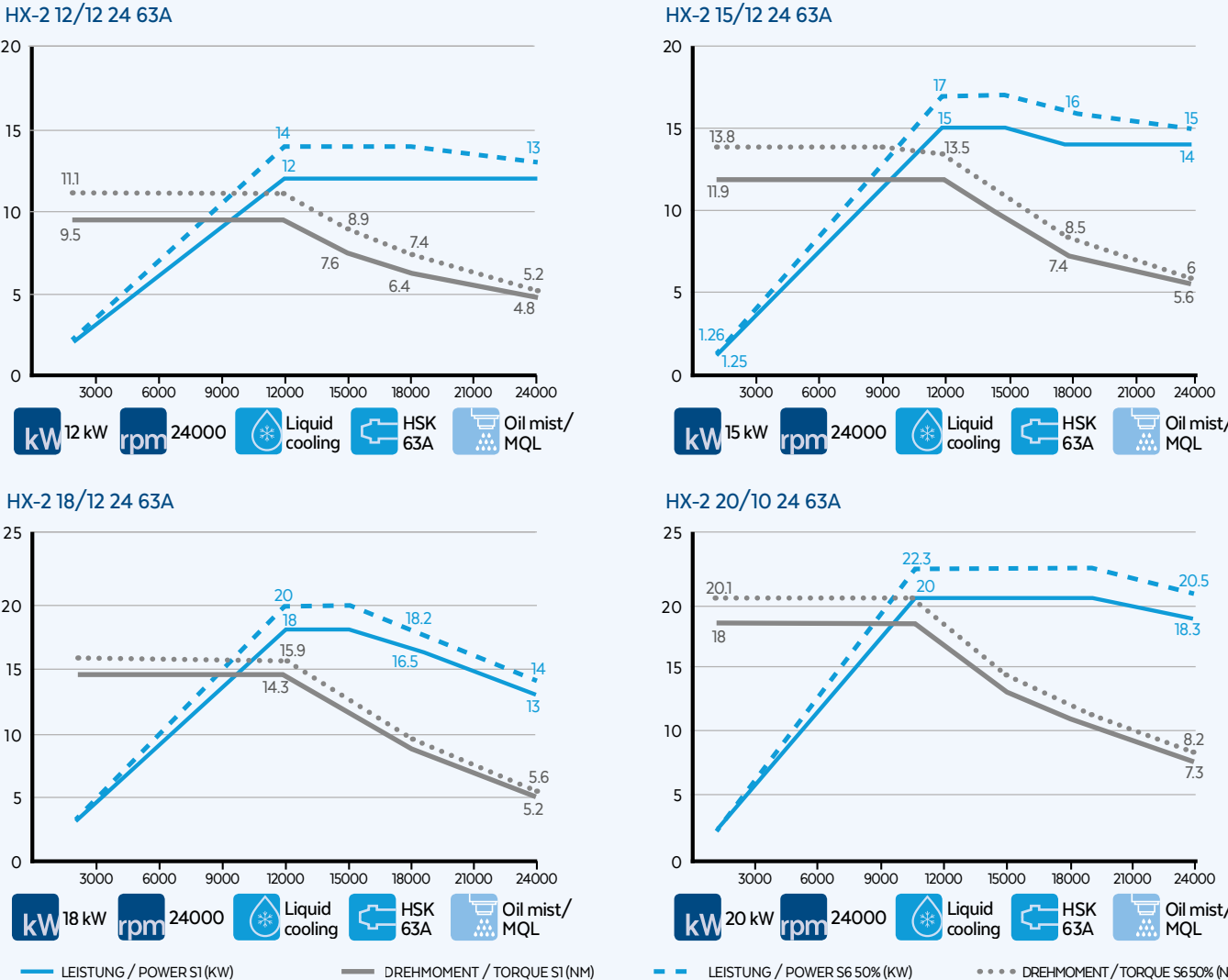
LAYOUT



SPINDELOPTIENEN / ELECTROSPINDLE OPTIONS

- Kurze Nase / Short nose
- HSK 63E
- HSK 63F
- Oil mist/ MQL
- Temperaturüberwachung der Lager / Bearings temperature monitoring
- Drehzahlerrfassung / Speed monitoring
- Vibrationssensor / Vibration sensor
- Air tool
- S1-S6 kW 10-16 @7000 rpm

VERFÜGBARE SPINDELN / AVAILABLE ELECTROSPINDLES



TILT SERIES
TILT TLP



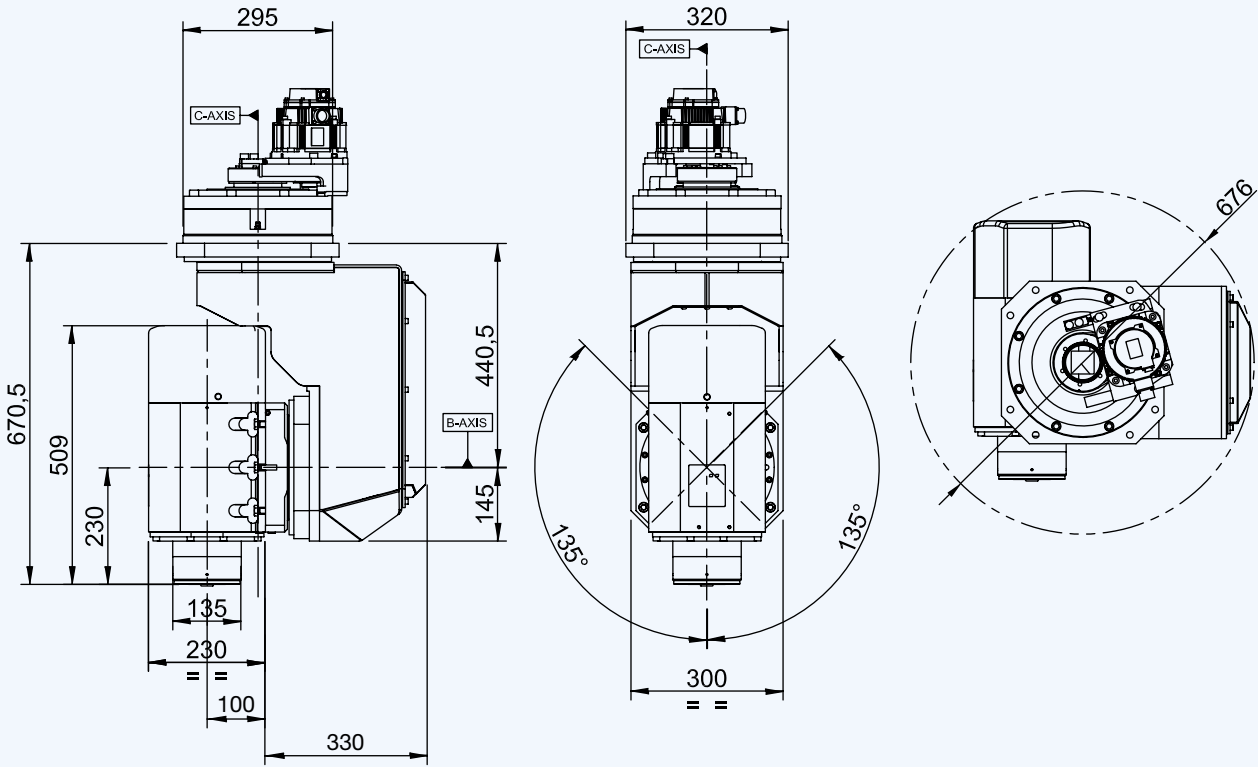
- LIGHT ALLOYS
- ADVANCED MATERIALS
- PLASTIC
- WOOD

TECHNISCHE DATEN / TECHNICAL SPECIFICATIONS

*Verfügbar andere Marke
*Other engine brands are available on demand

	A AXIS	C AXIS
Servomotor / Servomotor	Yaskawa*	Yaskawa*
Servomotorleistung / Servomotor power	0,75 kW	0,85 kW
Encoder Servomotor / Servomotor encoder	Absolute 20 Bit	Absolute 20 Bit
Getriebe / Gearbox	Sumitomo	Sumitomo
Maximales Dauerdrehmoment / Max. continuous torque	360 Nm	636 Nm
Spitzendrehmoment / Peak torque	1062 Nm	3188 Nm
Maximale Drehachse / Max axis rotation	±135°	±320°
Mechanische Bremsen / Mechanical blocking of axes	Ja Yes (TORX)	Ja Yes (TORX)
Positioniergeschwindigkeit max / Max. positioning speed	6.100°/'	9.300°/'
Maximale Betriebsgeschwindigkeit / Max operating speed	3.700°/'	5.600°/'
Positionierachsen Präzision / Axis positioning accuracy	1 arcmin	1 arcmin
Gewicht / Weight		200 kg

LAYOUT

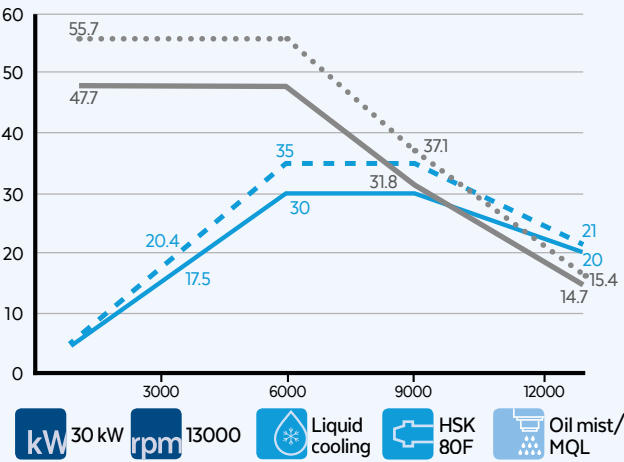


SPINDELOPTIENEN / ELECTROSPINDLE OPTIONS

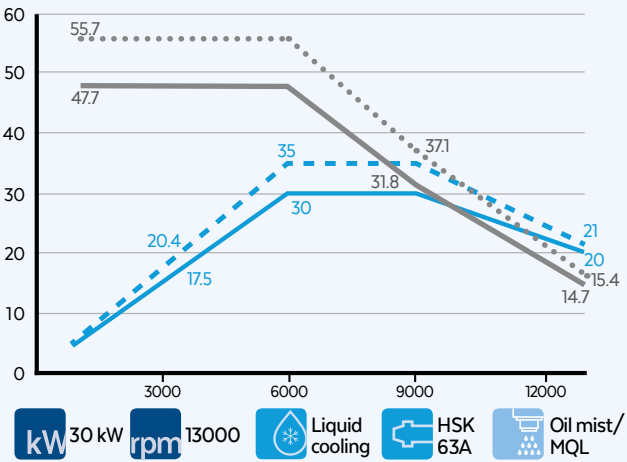
- Oil mist/MQL
- Temperaturüberwachung der Lager
Bearings temperature monitoring
- Drehzahlerrfassung
Speed monitoring
- Vibrationssensor
Vibration sensor
- Air tool
- Encoder
(standard with hsk 63A)

VERFÜGBARE SPINDELN / AVAILABLE ELECTROSPINDLES

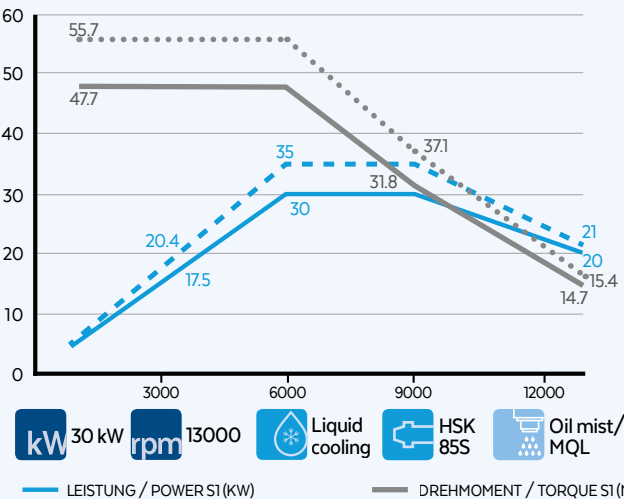
QM-2 30/6 13 80F NC



QM-2 30/6 13 63A NC ES



QM-2 30/6 13 85S NC





ITM UNITEC GmbH
Kuchengrund 19
71522 Backnang

Tel. +49 7191 495 265-0
Fax +49 7191 495 265 10
info@itm-unitec.com
www.itm-unitec.com

