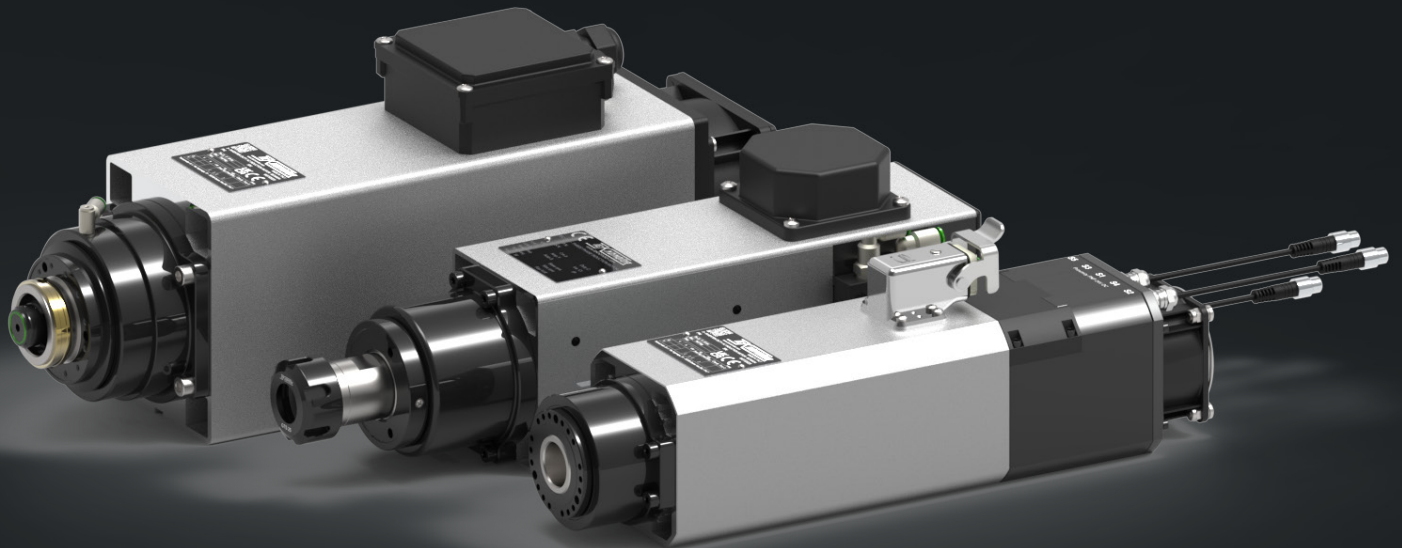


TEKNOMOTOR

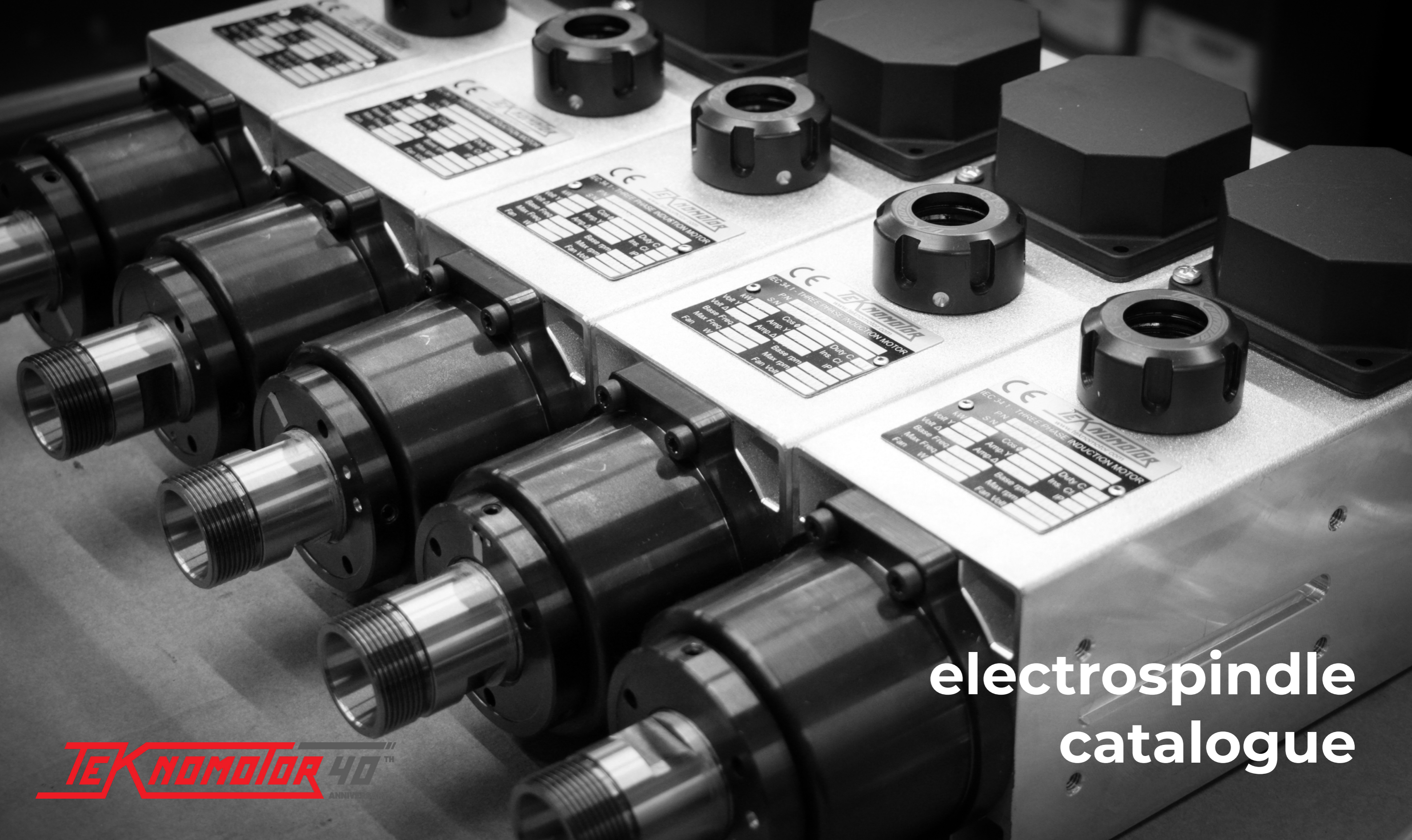


TEKNOMOTOR S.R.L.

Via Argenega, 31 - 32038 Quero Vas (BL) - Italy
Tel: +39 0439 787950 / Fax: +39 0439 780147
www.teknomotor.com
info@teknomotor.com



TEKNOMOTOR S.R.L.



electrospindle
catalogue



This is our world

We were born in 1983 by making a motor for an edgebanding machine: this has always been our world.

For over 40 years we have been designing and manufacturing electrospindles and high-frequency motors.

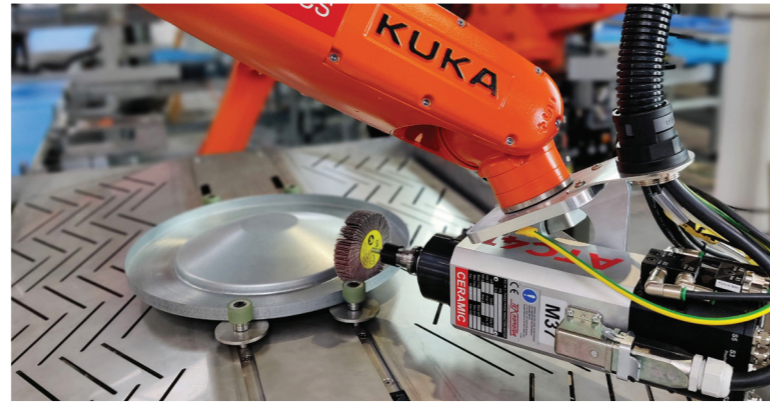
We completely carry out production in our workshops in Quero, a small town at the foot of the Dolomites.

Our spindles are installed on machines **all over the world**, with Germany, Northern Europe, Turkey, United States, Canada, Oceania, South America, and China as the main markets.

It is with great pride and a little wonder that we think about what is produced in all 5 continents also thanks to the motors we make here.

#since 1983

#made in italy #made by us



new tools for new shapes

“The Mechanical engineering does not discount. The saving of today returns double to pay tomorrow, probably when you are in the middle of a big job and cannot stop. Since the beginning of my journey with Teknomotor I inspect the production every single day. I see rings, shafts, and aluminum frames and I am constantly wondering how we can make them better, more durable, and more precise. I see parts and then they became spindles. We do not use glue, we do not save on mechanics and even on electrical insulation. **Simply the best mechanic.** I put my face to it.”

Eng. S. Perli - CEO

High-Frequency Motors (HFM) were the first to be developed by us, born to serve the manufacturers of edge-banding machines for the wood furniture industry.

A truly selective market that has seen our HFM spindles emerge for their undisputed qualities.

Today, the main features are still **power** **precision** **reliability** **customization** of the shaft **direct mounting** of the tool.

These features have led to the development of hundreds of solutions, expanding the application possibilities to different industry sectors and materials.

Quick tool change, automatic tool change, Big Blades series and K-High Performance line spindles complete a huge range of solutions.

Just let yourself be inspired: our technical and R&D depts are constantly working alongside our customers' technicians in studying and implementing solutions for **new applications.**

Contact Us



This Catalog is an important step to involve you in the "Teknomotor Project" of which Partners and Customers are key components.

Contact us: **we will be at your side** to develop projects, provide products, share values.

A truly applied quality management system

COMPANY WITH
QUALITY SYSTEM
CERTIFIED BY DNV
ISO 9001

Continuous improvement is the motor that drives us. Plan-do-check-act is not a doggerel to boast about, but our way of life.

At a time when many Companies choose outsourcing manufacturing, every our electrospindle is made in Italy, inside our factories, by our hands.

From start to finish. Now and always.

This is the reason why we know our motors so deeply.



Product design

Our motors are designed to best meet all the market requirements combining maximum accuracy, durability, efficiency, reliability and innovation with a clean and elegant aesthetics.



Reliability

We manage the entire design and manufacturing process internally and directly. Each component of our electrospindles is manufactured and assembled by the expert hands of our operators and technicians and goes through an intense quality control process that guarantees full reliability.



Customization

Our team of engineers is an excellence in designing customized motors that guarantee the best performances meeting even the most specific needs of our customers' machines.



Protocol

All our machines and tools are regularly tested by certified professionals and test labs while all our processes are carried out in accordance with national and international standards (ISO9001 quality management system).

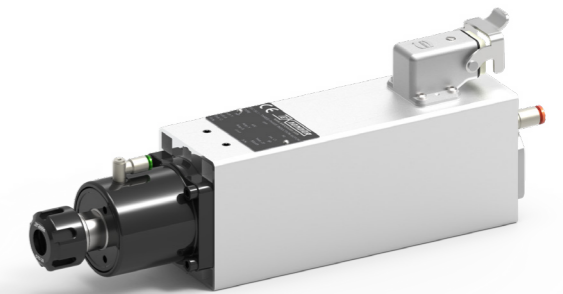
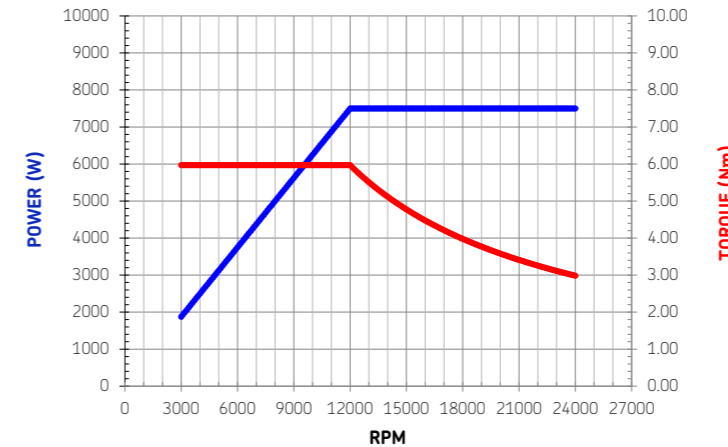


Customer satisfaction

We offer to our customers the guarantee of purchasing the product that best meets their needs. We do that through an accurate analysis of the requirements and a direct dialogue with our specialized technical team.

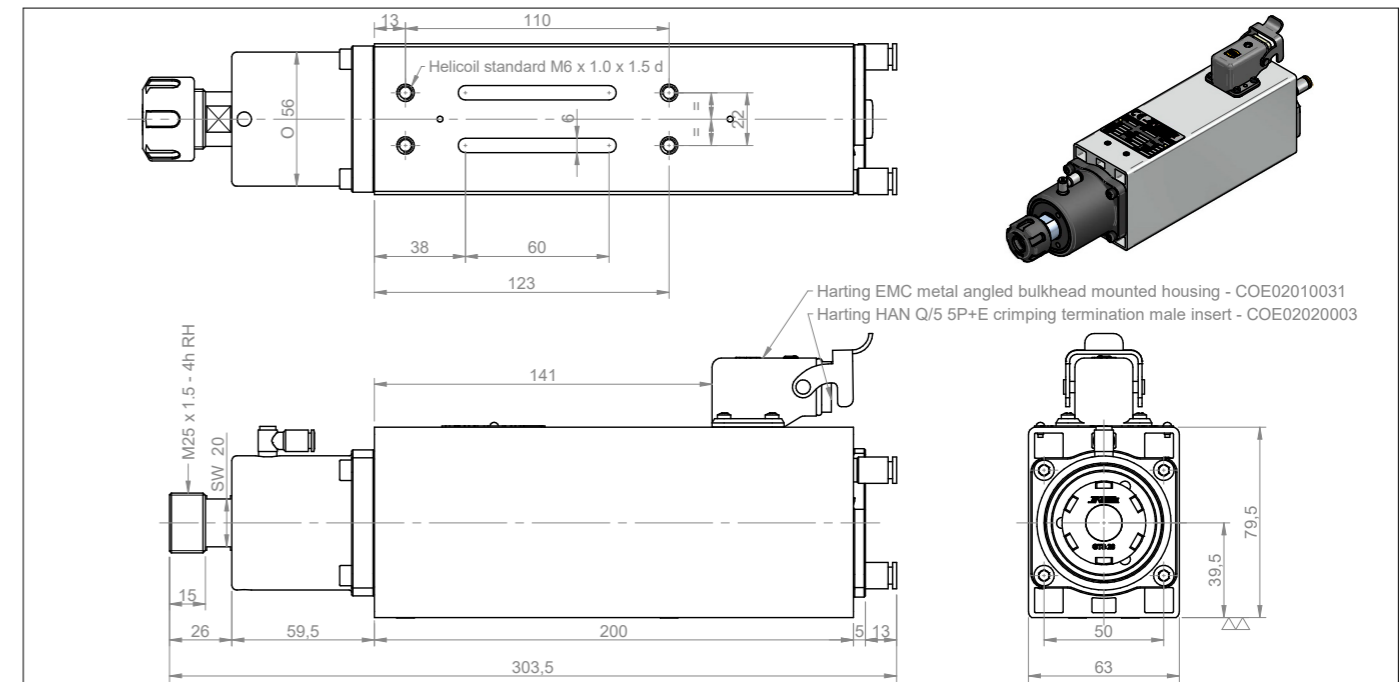
MTCE - Manual Tool Change Electrospindle - 3140 Liquid Cooled 3140-C-DBL-P-ER20-RH-LC

TORQUE AND POWER CURVES



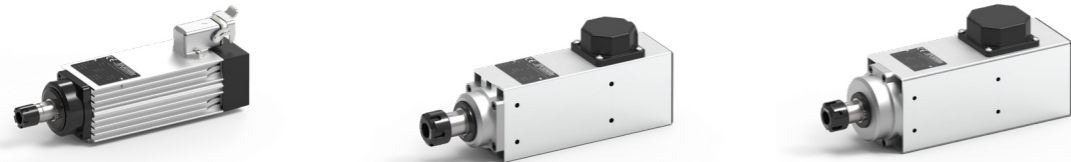
Power	0.55 kW
Torque	0.44 Nm
Base Speed	12000 rpm
Max Speed	24000 rpm

Tool holder	ER20
Voltage	380 V
Weight	4.72 Kg
Order Code	COM31400266

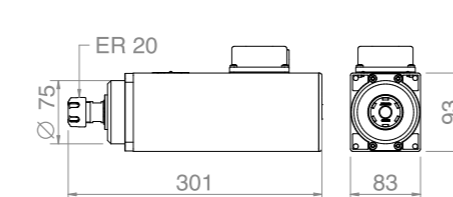
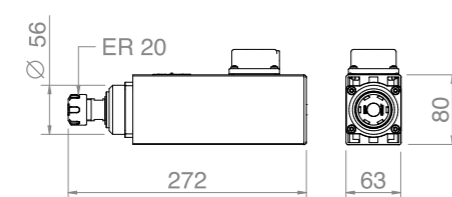
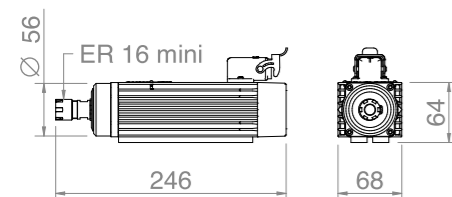
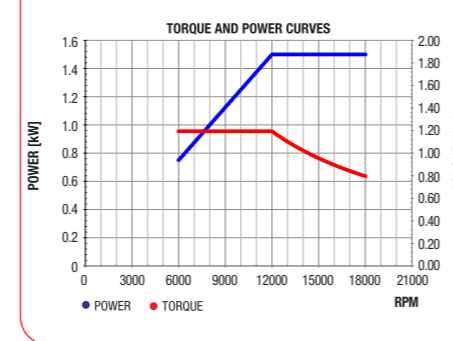
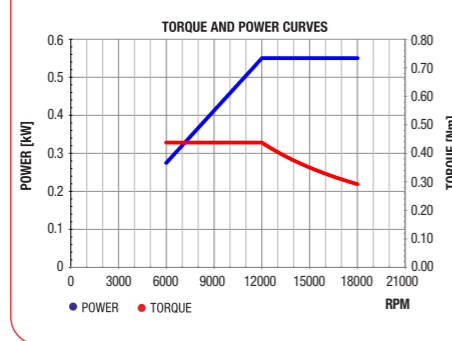
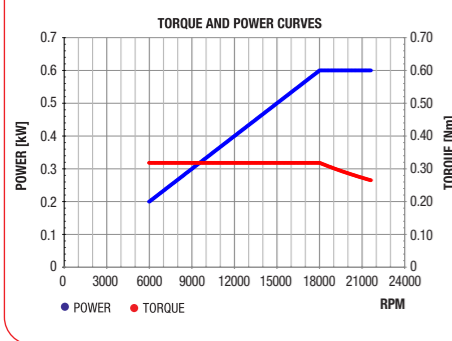


HFM High Frequency Motors

High frequency motors suitable for radial load and a small axial load.
Mostly used in PVC applications.



Type	C35-C-SB-P-ER 16-RH	3140-C-SB-P-ER20-RH	4147-C-SB-P-ER20-RH
Tool holder	ER16 - RH - mini	ER20 - RH	ER20 - RH
Power	0.6 kW	0.55 kW	1.5 kW
Torque	0.32 Nm	0.44 Nm	1,2 Nm
Nominal speed	18000 rpm	12000 rpm	12000 rpm
Max speed	21600 rpm	18000 rpm	18000 rpm
Voltage	220 V	220/380 V	220/380 V
Weight	3 Kg	3,5 Kg	6,3 Kg
Order code	COMC0350060	COM31400332	COM41470141

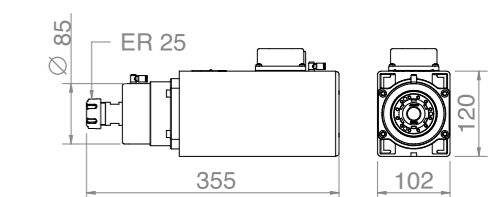
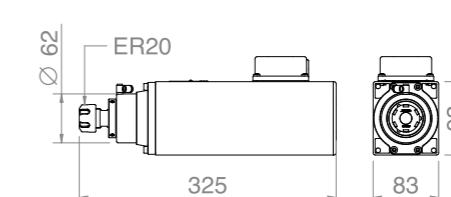
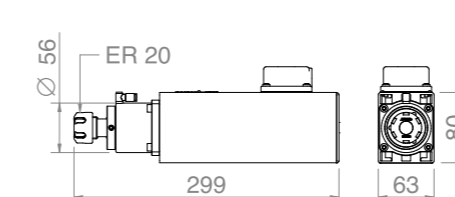
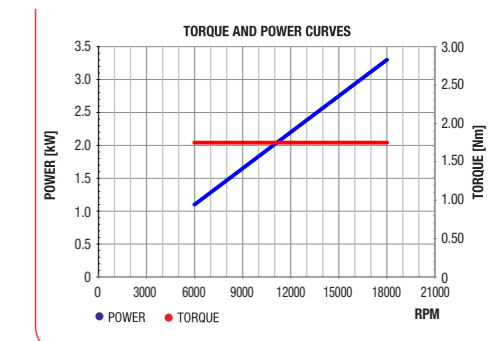
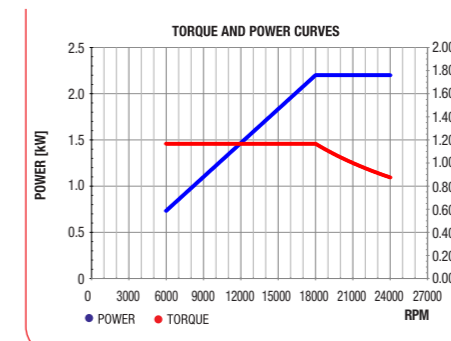
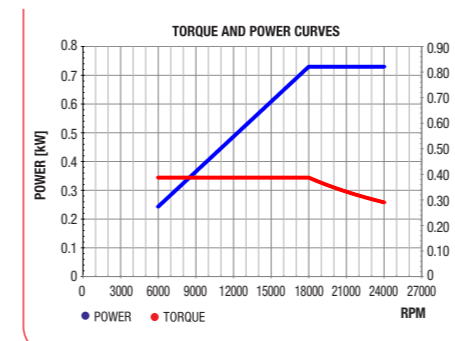


MTCE-P Pressurized Manual Tool Change Electrospindles

Electrospindles suitable for radial and axial load.
Used for aluminum where the tool works with cutting fluids or oil mist.



Type	3140-C-DBL-P-ER20-PR-RH	4147-C-DB-P-ER20-PR-RH	5160-A-DB-P-ER25-PR-RH
Tool holder	ER20 - RH	ER20 - RH	ER25 - RH
Power	0.73 kW	2.2 kW	3.3 kW
Torque	0.39 Nm	1.2 Nm	1.75 Nm
Nominal speed	18000 rpm	18000 rpm	18000 rpm
Max speed	24000 rpm	24000 rpm	18000 (24000 opt) rpm
Voltage	220/380 V	220/380 V	220/380 V
Weight	4,30 Kg	7,4 Kg	12,6 Kg
Order code	COM31400437	COM41470615	COM51600348



QTC Quick Tool Change Electrospindles

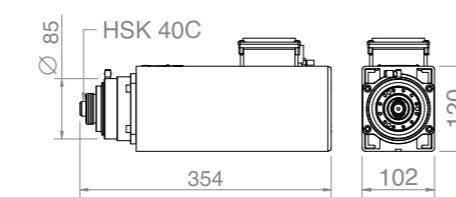
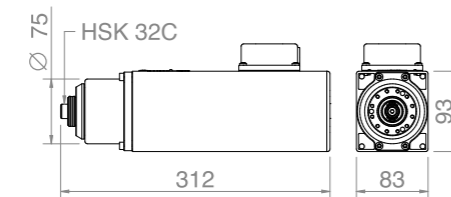
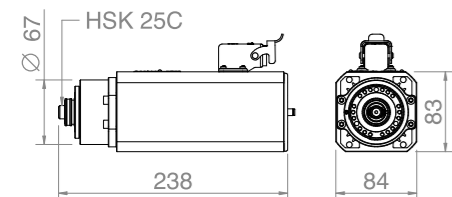
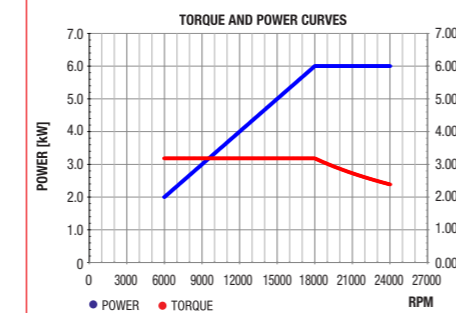
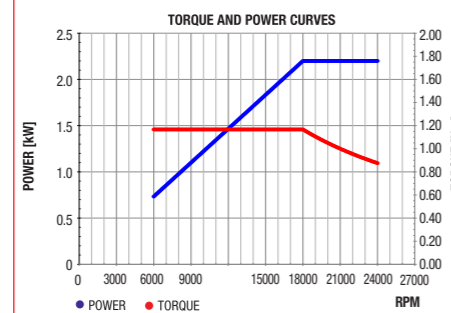
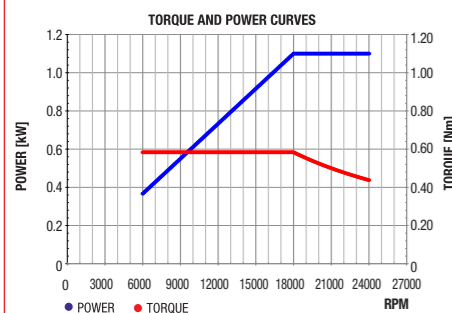
Electrospindles with manual quick tool change based on HSK-C interface suitable for radial and axial load. Used for working wood, PVC, aluminum.



See how they work



Type	C041-A-DBS-HSK25C-HY	4147-C-DB-HSK32C-HY	5160-D-2DBS-HSK40C-PR-HY
Tool holder	HSK 25C	HSK 32C	HSK 40C
Power	1.1 kW	2.2 kW	6.0 kW
Torque	0,6 Nm	1,2 Nm	3,2 Nm
Nominal speed	18000 rpm	18000 rpm	18000 rpm
Max speed	24000 rpm	24000 rpm	24000 rpm
Voltage	220 V	220/380 V	220/380 V
Weight	4,8 Kg	8 Kg	13,7 Kg
Order code	COMC0410009	COM41470563	COM51600433

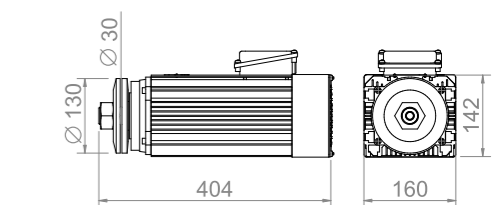
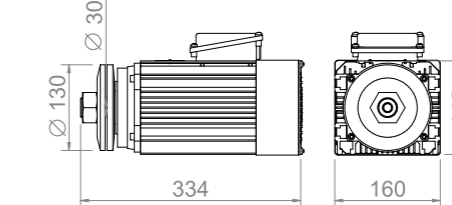
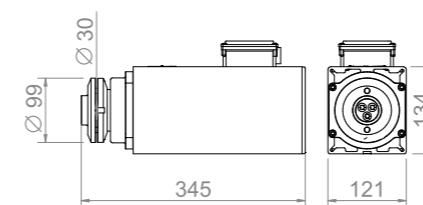
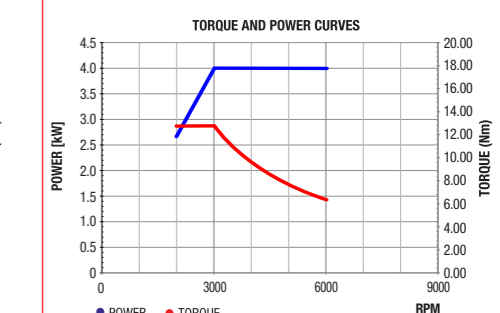
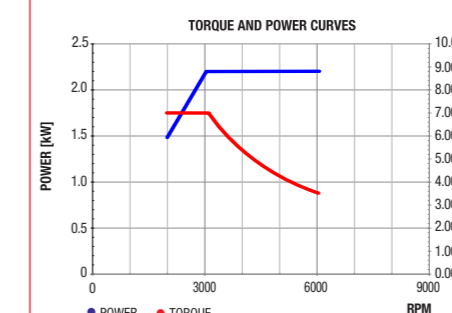
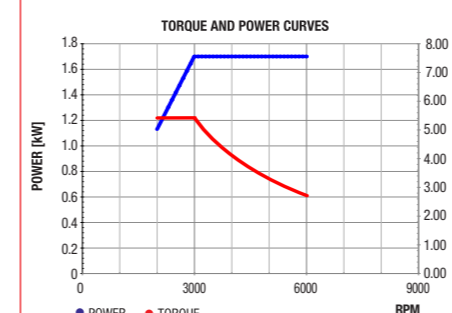


MFM Mid Frequency Motors

Mid frequency motors suitable for radial load and a small axial load. Mostly used for PVC or aluminum cutting in dry conditions. Powered with direct connection or inverter use.



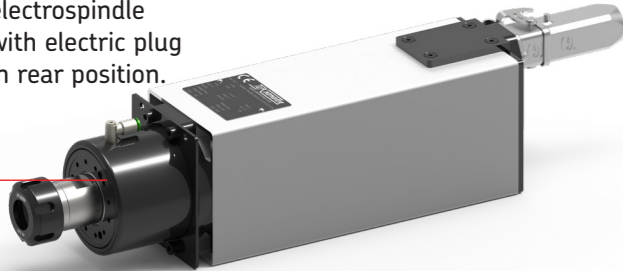
Type	6067-D-SB-BT	7180-A-SB-BT-RH	7180-C-SB-BT-RH
Tool holder	Blade type (BT)	Blade type (BT)	Blade type (BT)
Power	1,7 kW	2,2 kW	4 kW
Torque	5,4 Nm	7 Nm	12.4 Nm
Nominal speed	2860 rpm	2860 rpm	2860 rpm
Max speed	6000 rpm	6000 rpm	6000 rpm
Voltage	230/400 V	230/400 V	230/400 V
Weight	19,1 Kg	18,2 Kg	24,3 Kg
Order code	COM60670060	COM71800140	COM71800177



Custom made solutions

COM41470422

Manual tool change electrospindle with electric plug in rear position.



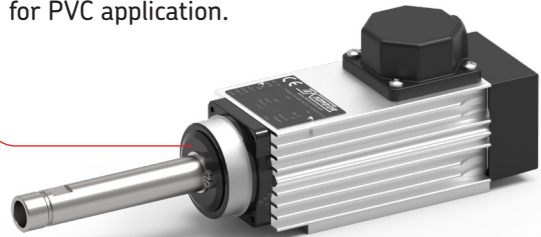
COM31400130

Manual tool change electrospindle with long nose and long shaft.



COMC0350077

HF motor with extra long shaft for PVC application.



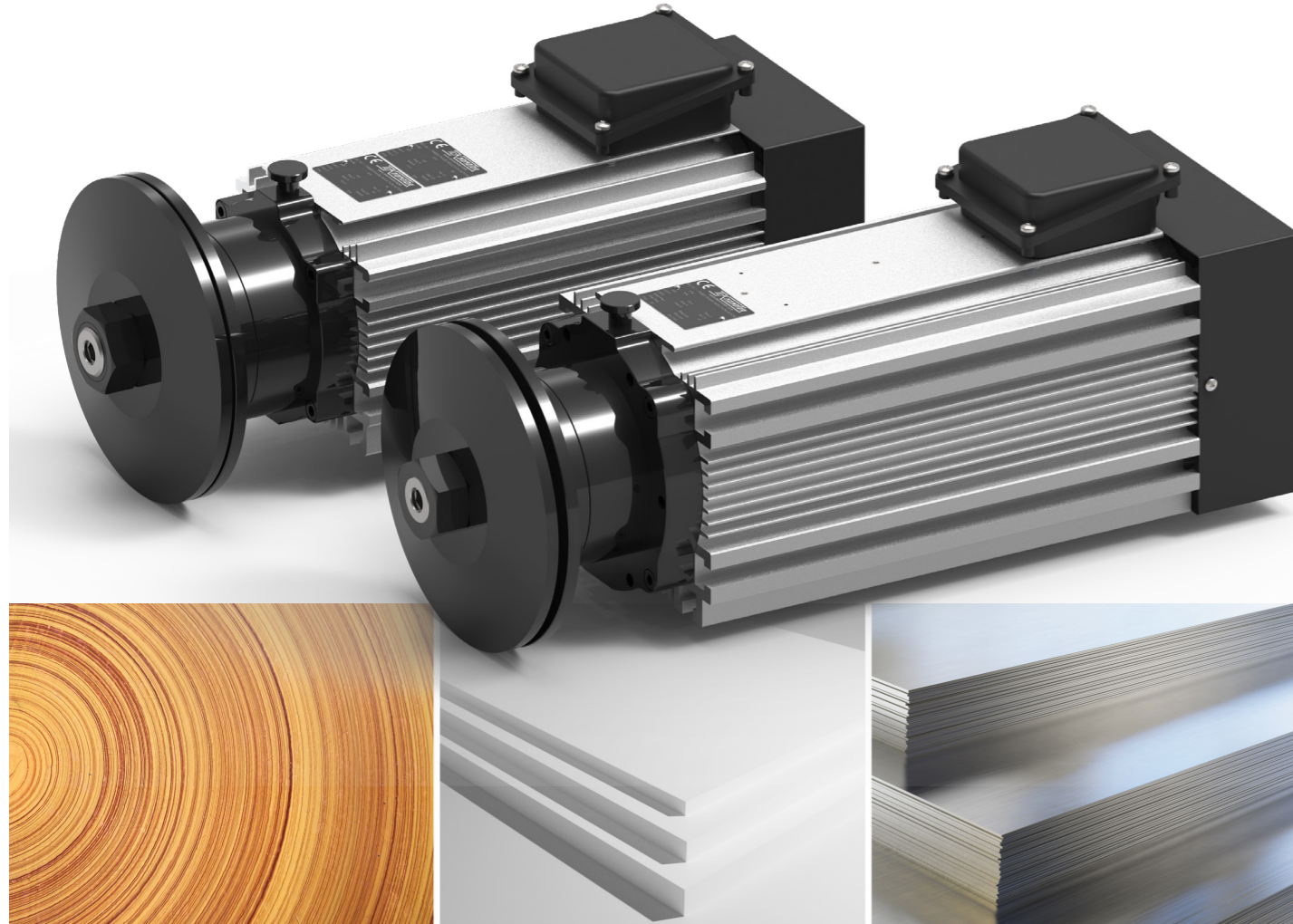
COMNC350327

Double shaft HF motor for robotic application.



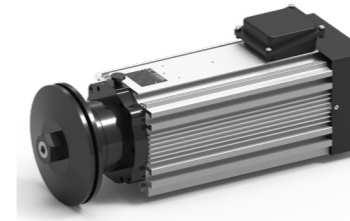
Big Blades Series

New Electric Motor Spindle Big Blades Series are specially designed for cutting wood, aluminium and plastics with blades of diameter exceeding 400mm diameter.

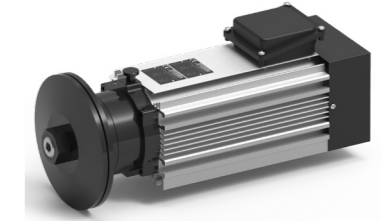
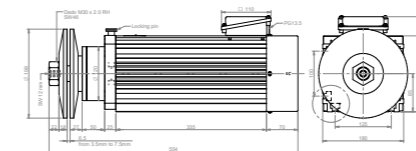
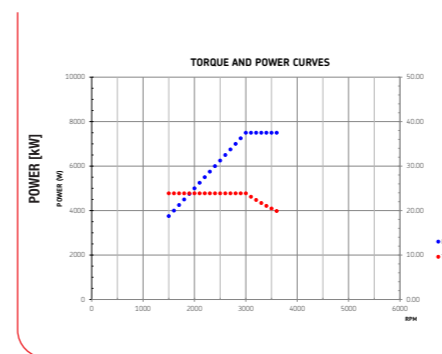


BB spindles offer high cutting precision by the reduced axial oscillation of the blade holder flanges. By angular contact bearings they can reach a rotation speed of 9000rpm. Ideal for processing wood, aluminum and plastic materials.

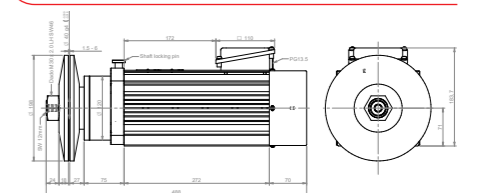
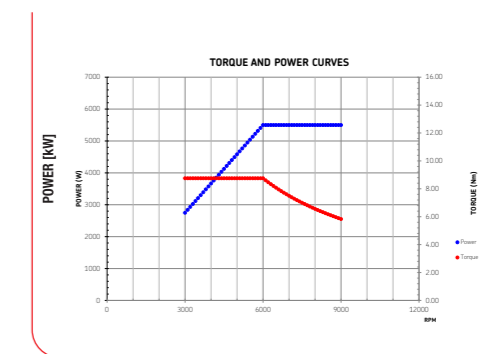
Big Blades Series



Type	8590-B-2DB-BT-RH
Tool holder	Blade type (BT)
Power	7,4 kW
Torque	23,87 Nm
Nominal speed	3000 rpm
Max speed	3600 rpm
Voltage	230/400 V
Weight	57,30 Kg
Order code	COM85900142



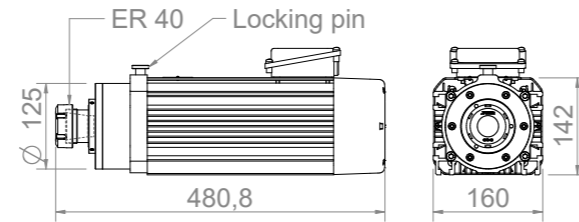
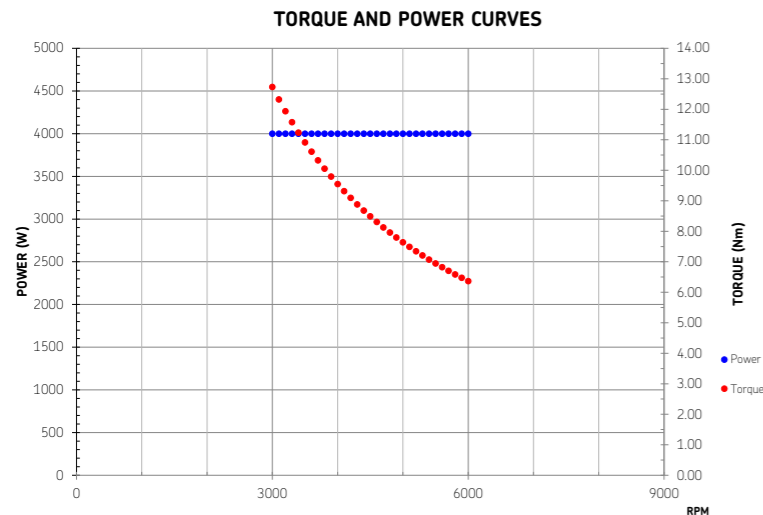
Type	7180-C-2DB-BT-LH
Tool holder	Blade type (BT)
Power	4 kW / 5.5 kW
Torque	6.82Nm / 9.67 Nm
Nominal speed	5600 rpm
Max speed	9000 rpm
Voltage	230/400 V / Δ400 V
Weight	36,14 Kg
Order code	COM71800403



Heavy Load Motors



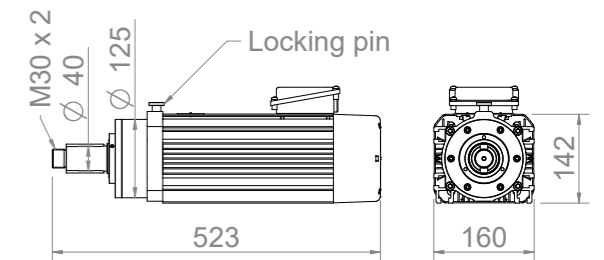
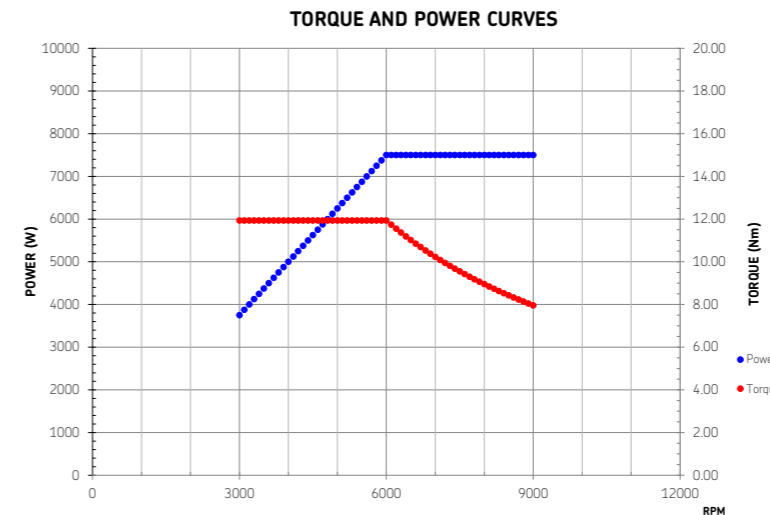
Name	7180-C-2DB-P-ER40-RH	Max Speed	9000 rpm
Power	4 kW	Tool holder	ER40
Torque	12,73 Nm	Voltage	380 V
Base Speed	3000 rpm	Weight	31,26 Kg



Heavy Load Motors



Name	7180-C-2DB-L87-FK-RH	Max Speed	9000 rpm
Power	7,5 kW	Tool holder	-
Torque	11,94 Nm	Voltage	380 V
Base Speed	6000 rpm	Weight	32,7 Kg

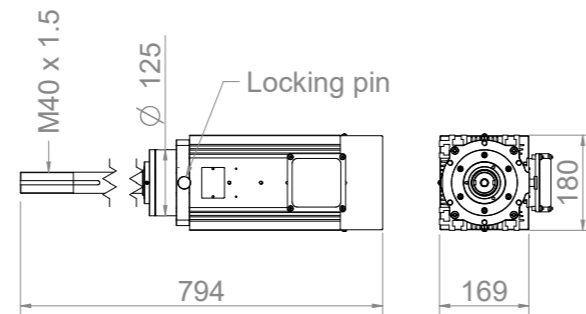
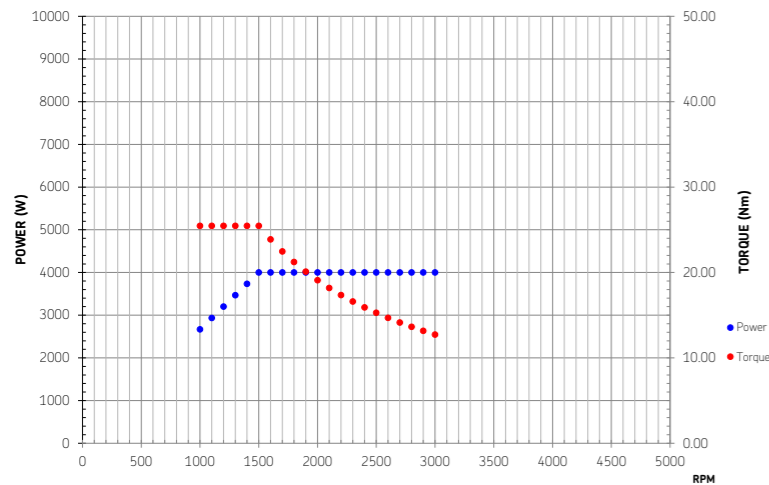


Heavy Load Motors



Name	8590-A-2DB-L340-RH	Max Speed	3000 rpm
Power	4 kW	Tool holder	-
Torque	25,46 Nm	Voltage	380 V
Base Speed	1500 rpm	Weight	50,54 Kg

TORQUE AND POWER CURVES

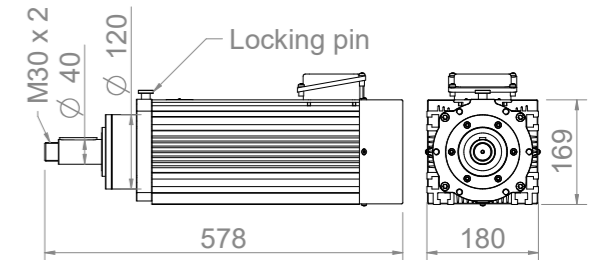
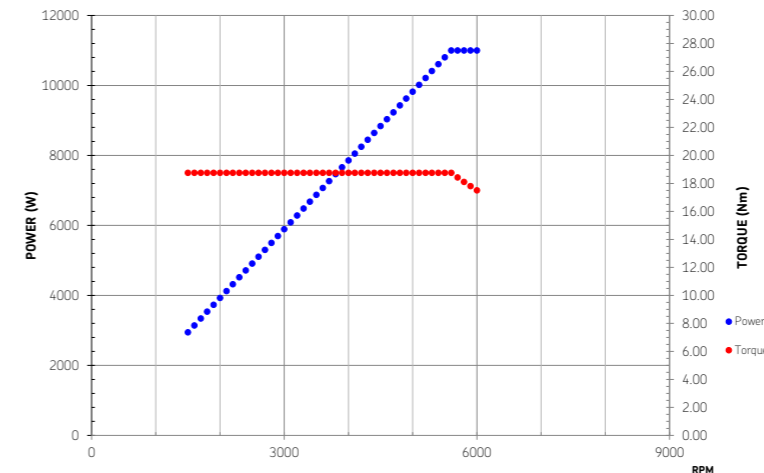


Heavy Load Motors

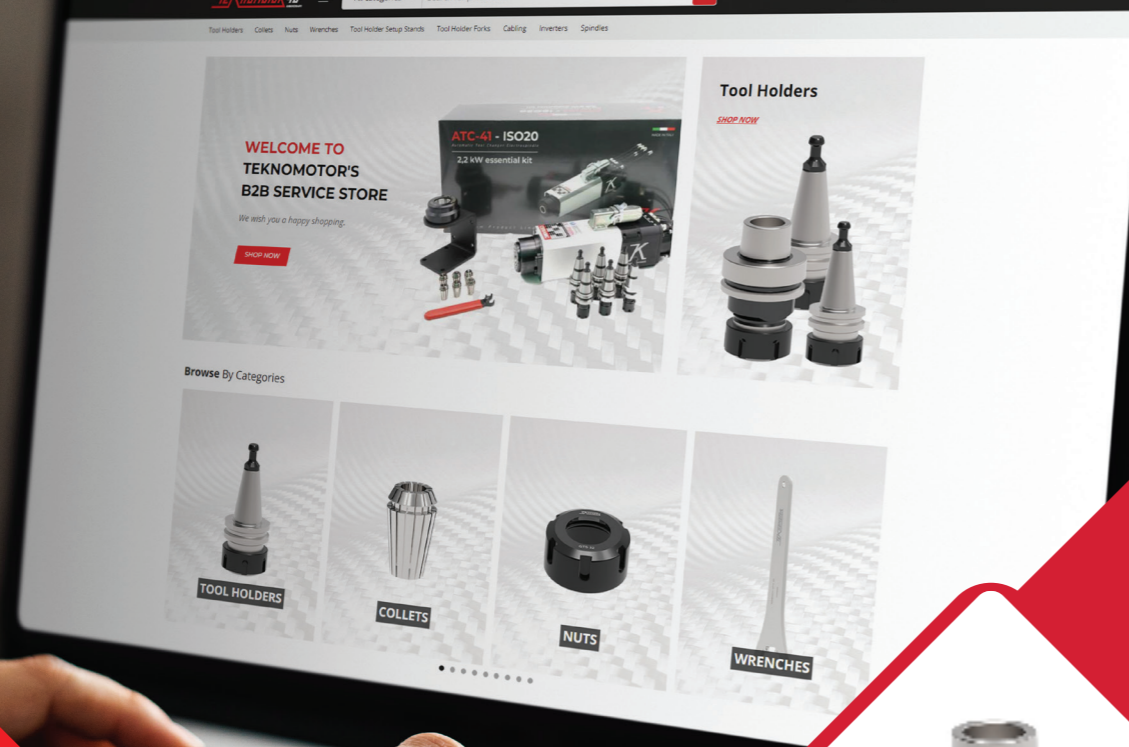


Name	8590-B-2DB-L92-FK-RH	Max Speed	6000 rpm
Power	11 kW	Tool holder	-
Torque	18,76 Nm	Voltage	380 V
Base Speed	5600 rpm	Weight	31,26 Kg

TORQUE AND POWER CURVES



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Teknomotor S.R.L.

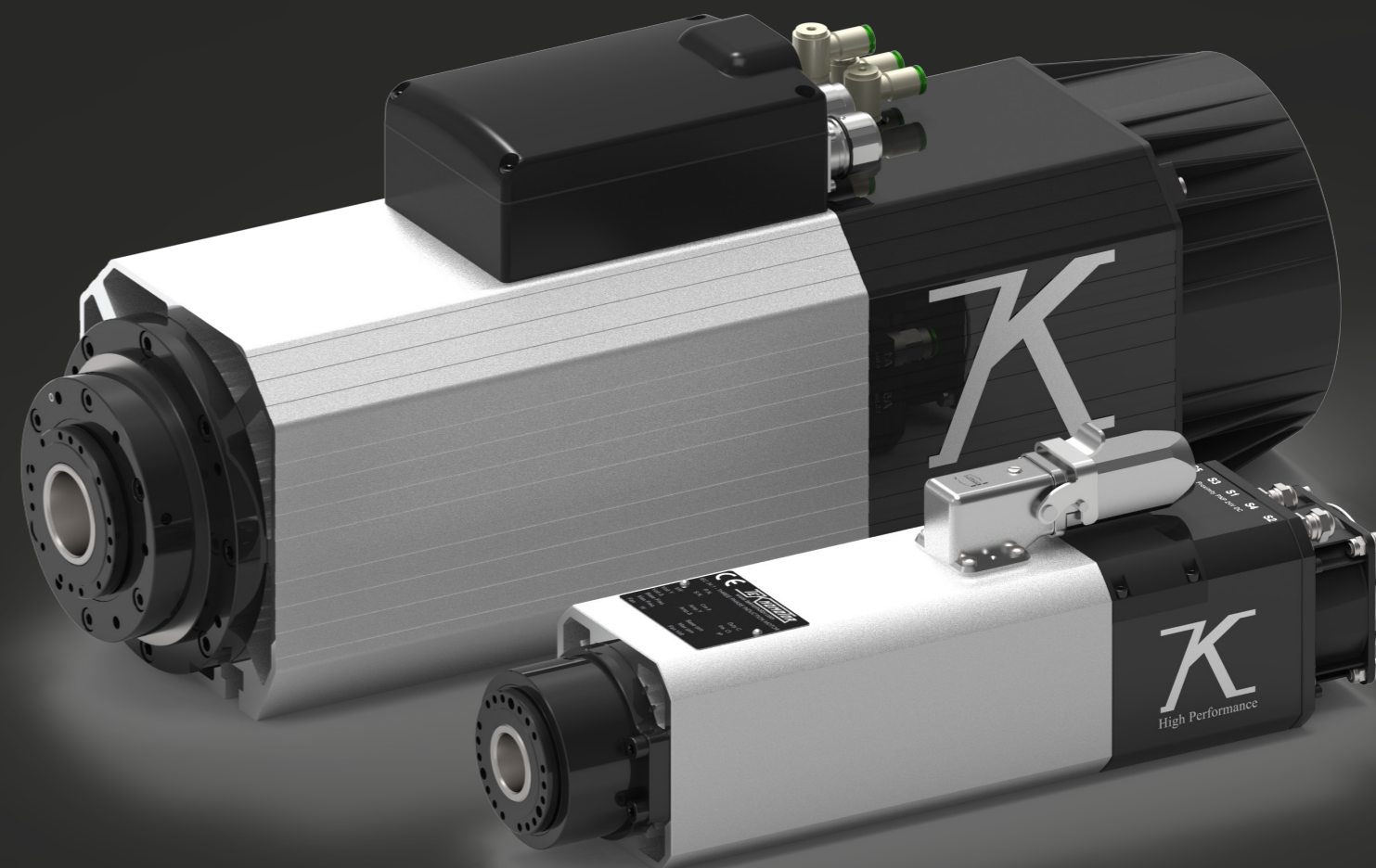
Via Argenega, 31 – 32038
Quero Vas (BL) – Italy
Tel: +39 0439 787950

www.teknomotor.com
Email: info@teknomotor.com



K[®]
High Performance

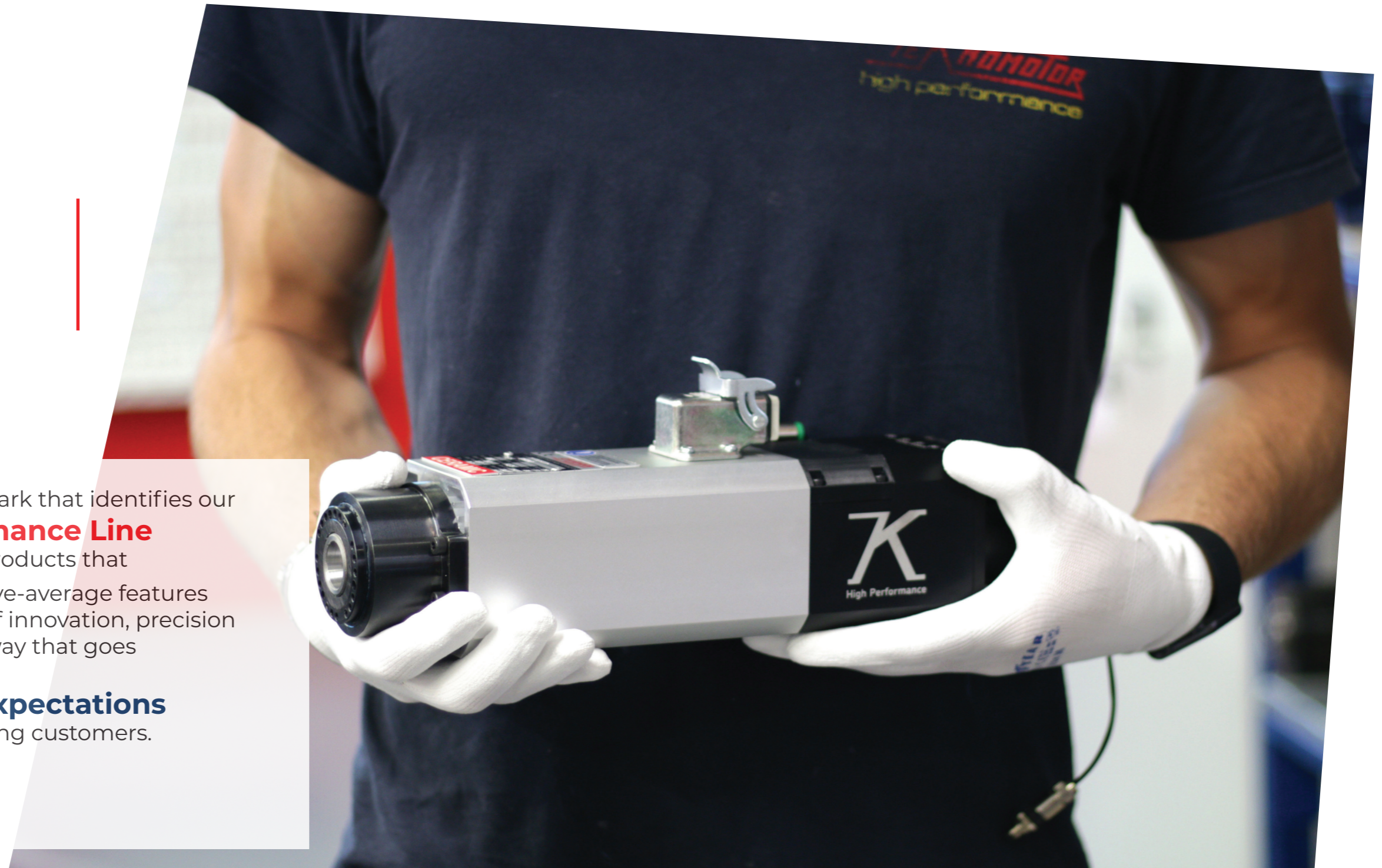
High Performance Line



Light. Compact. Precise. Powerful.



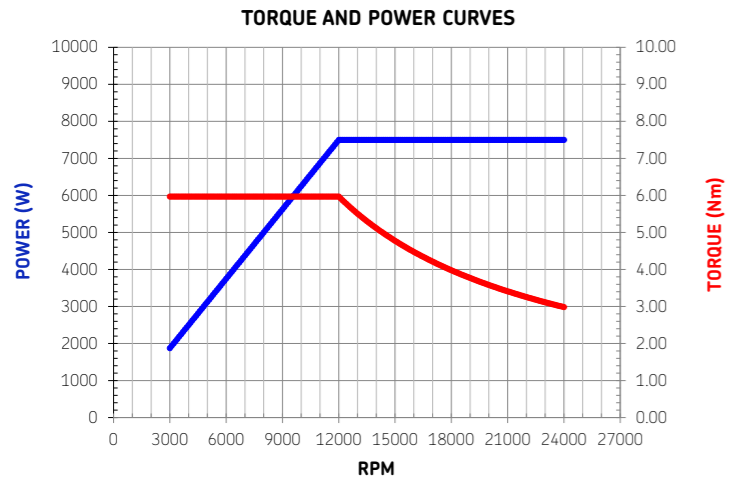
is the new registered trademark that identifies our
K - High Performance Line
represents those products that
stand out for their above-average features
and becomes synonymous of innovation, precision
and durability in a way that goes
far beyond the expectations
of the most demanding customers.





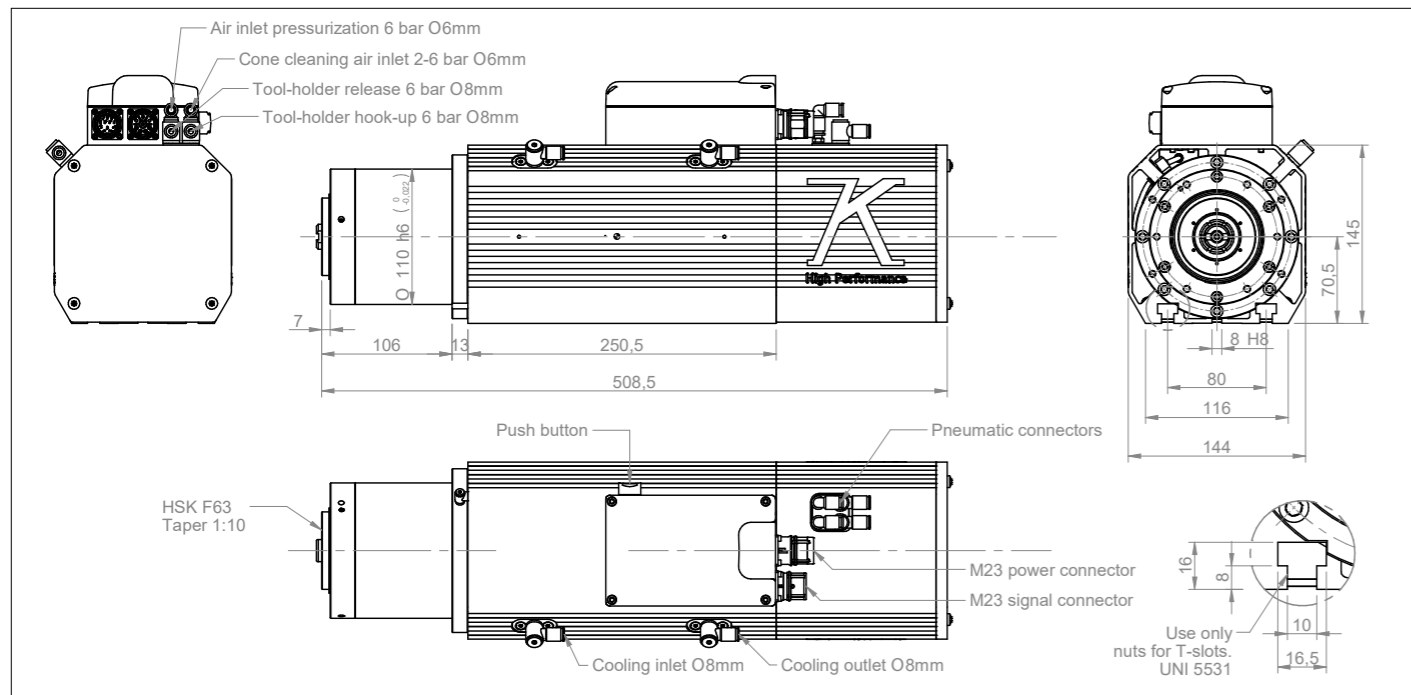
High Performance

ATC71-C-HSK63F-LN-4P-LC



Power	10 kW / 12 kW
Torque	7.96 Nm / 9.55
Base Speed	12000 rpm
Max Speed	24000 rpm

Tool holder	HSK63F
Voltage	380 V
Weight	29.87 Kg
Order Code	COMTC710044

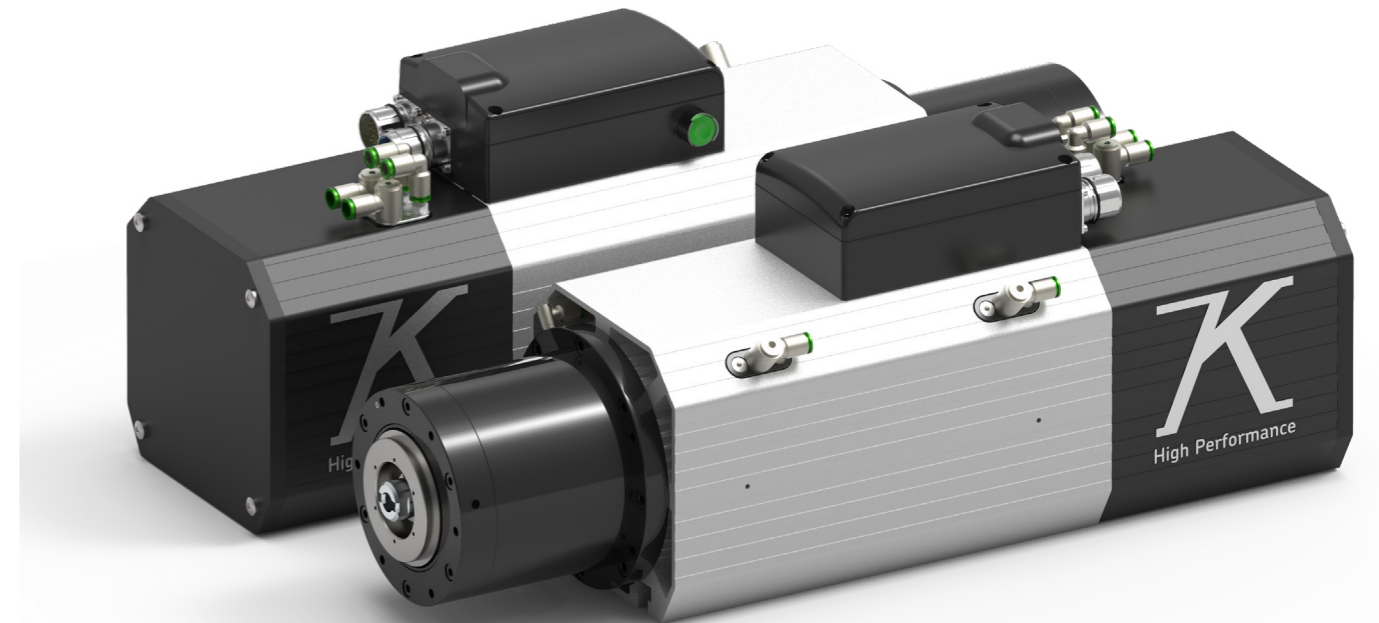


High Performance

ATC71 - HSK63F Liquid Cooled

The new ATC71 HSK63F Liquid Cooled spindle is specially designed for robotic applications in aggressive environments for a heavy load work at full power.

#never settle

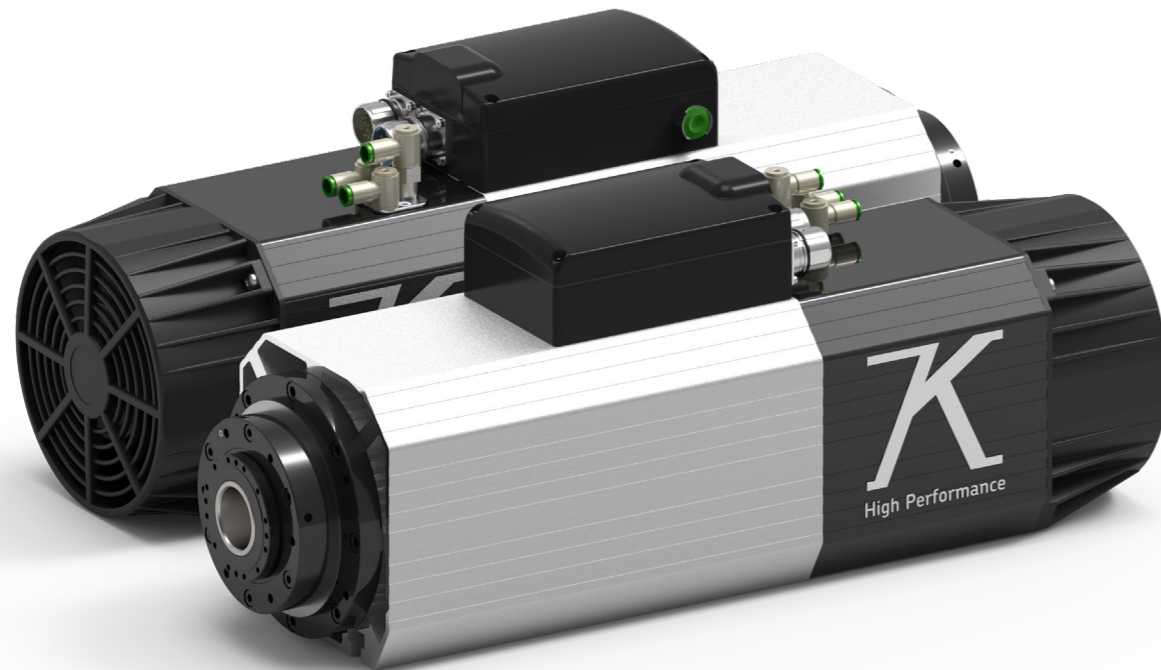


Cutting Edge Performance.

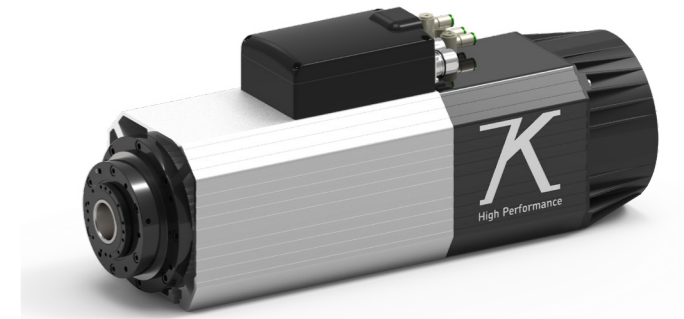
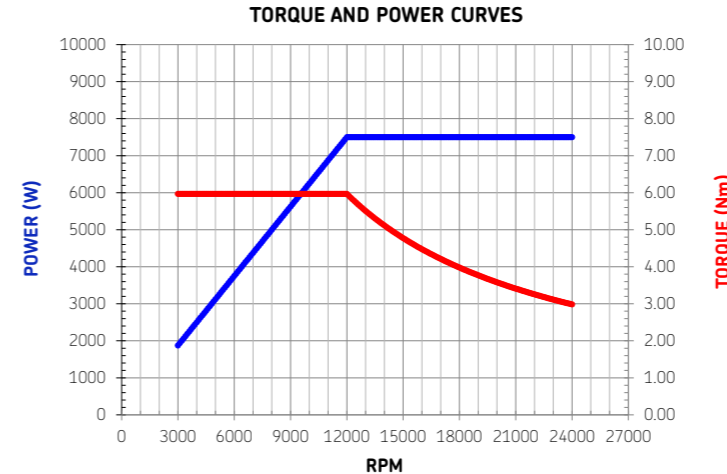
Every single component of the K - line is designed with focus on application.

Production processes are directly managed, executed with high-end machines and strictly controlled in order to achieve the highest levels of precision.

#give life to your ambitions

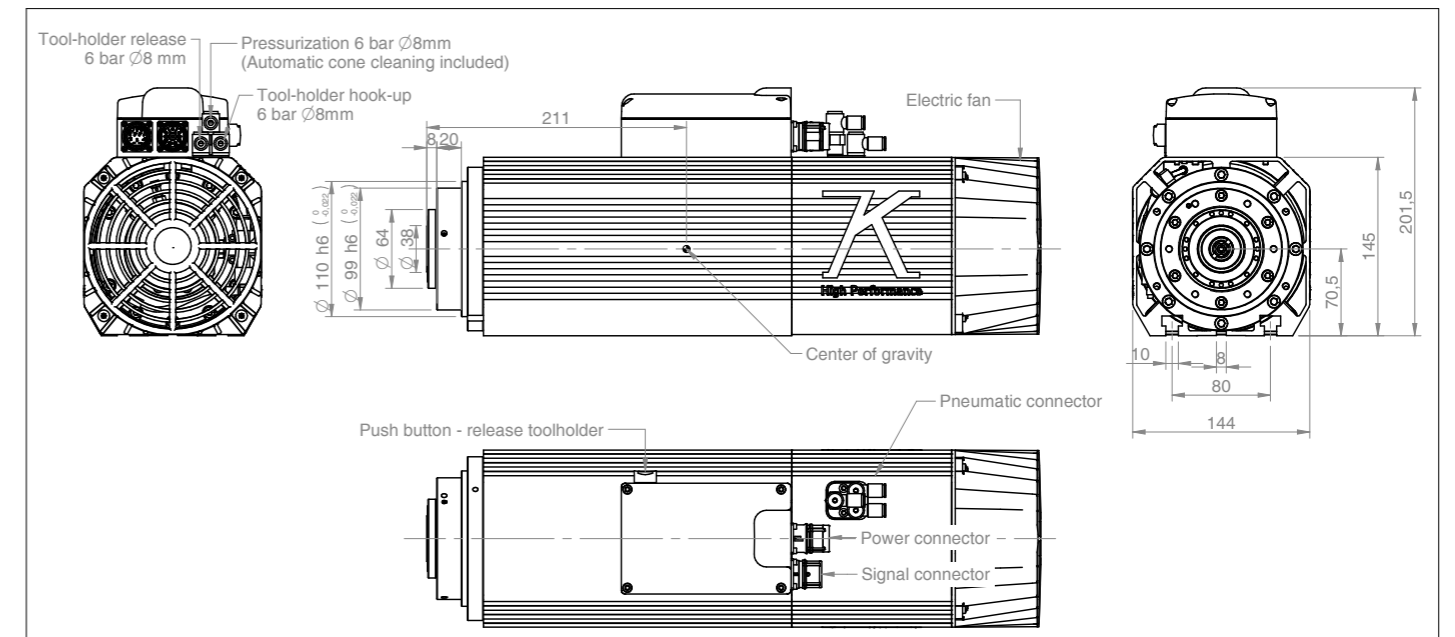


ATC71-C-IS030-SN-2P



Power	7.5 kW
Torque	5.97 Nm
Base Speed	12000 rpm
Max Speed	24000 rpm

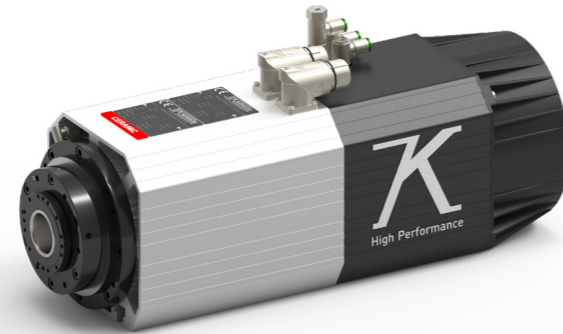
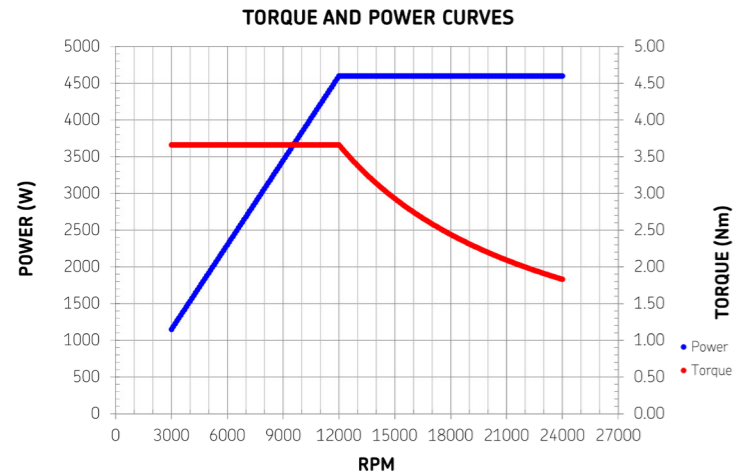
Tool holder	ISO30
Voltage	220 V
Weight	26.91 Kg
Order Code	COMTC710046





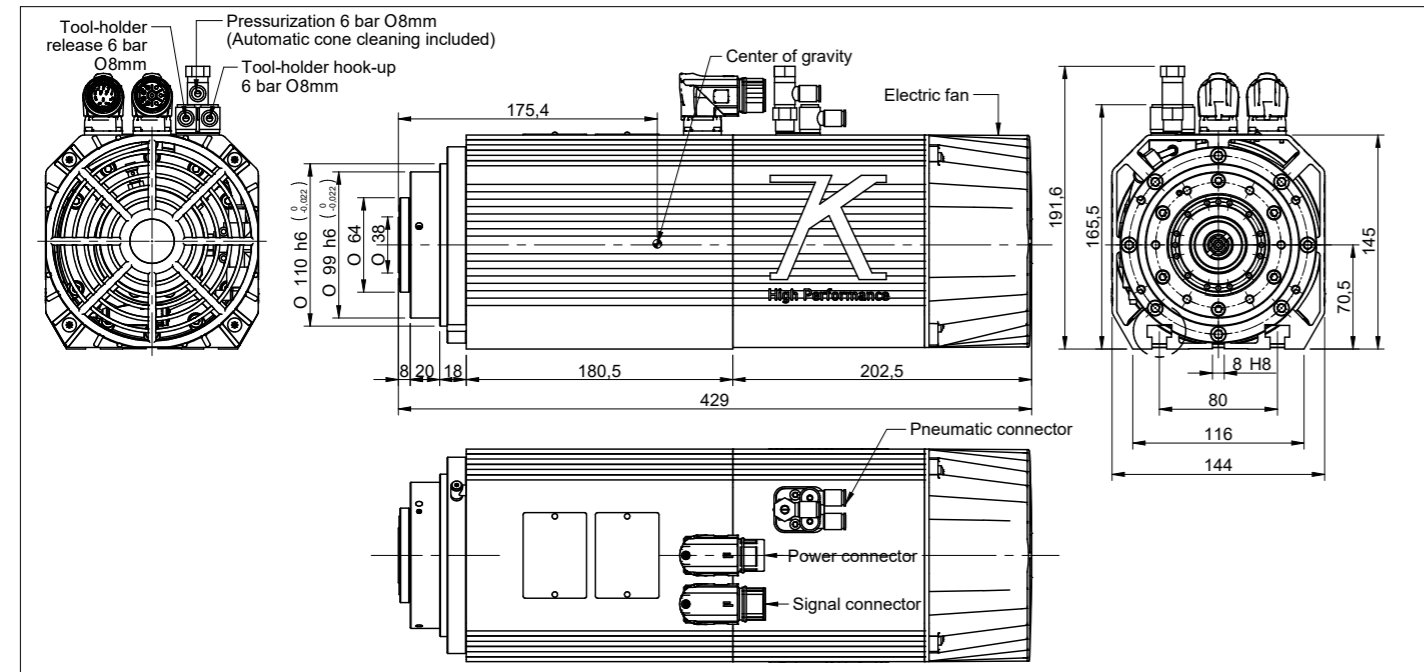
High Performance

ATC71-A-IS030-SN-2P



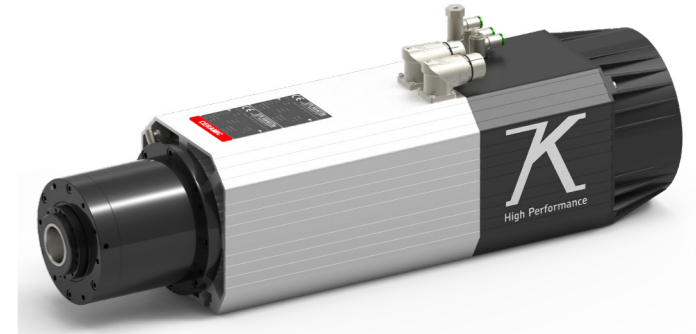
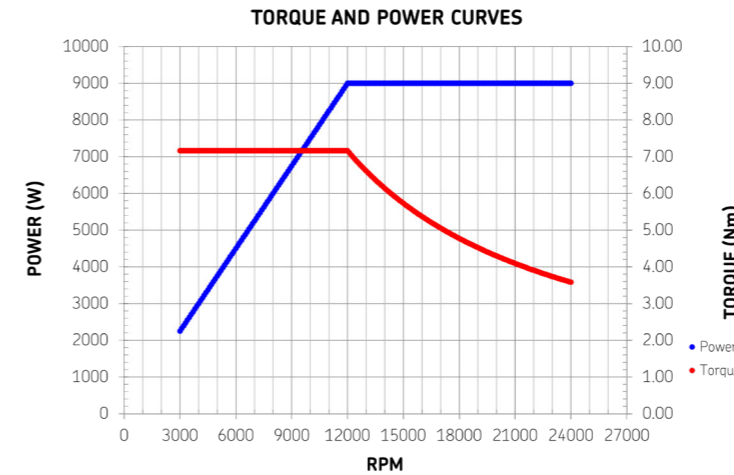
Power	4.6 kW
Torque	3.7 Nm
Base Speed	12000 rpm
Max Speed	24000 rpm

Tool holder	ISO30
Voltage	380V (Opt. 220 V)
Weight	19.50 Kg
Order Code	COMTC710001



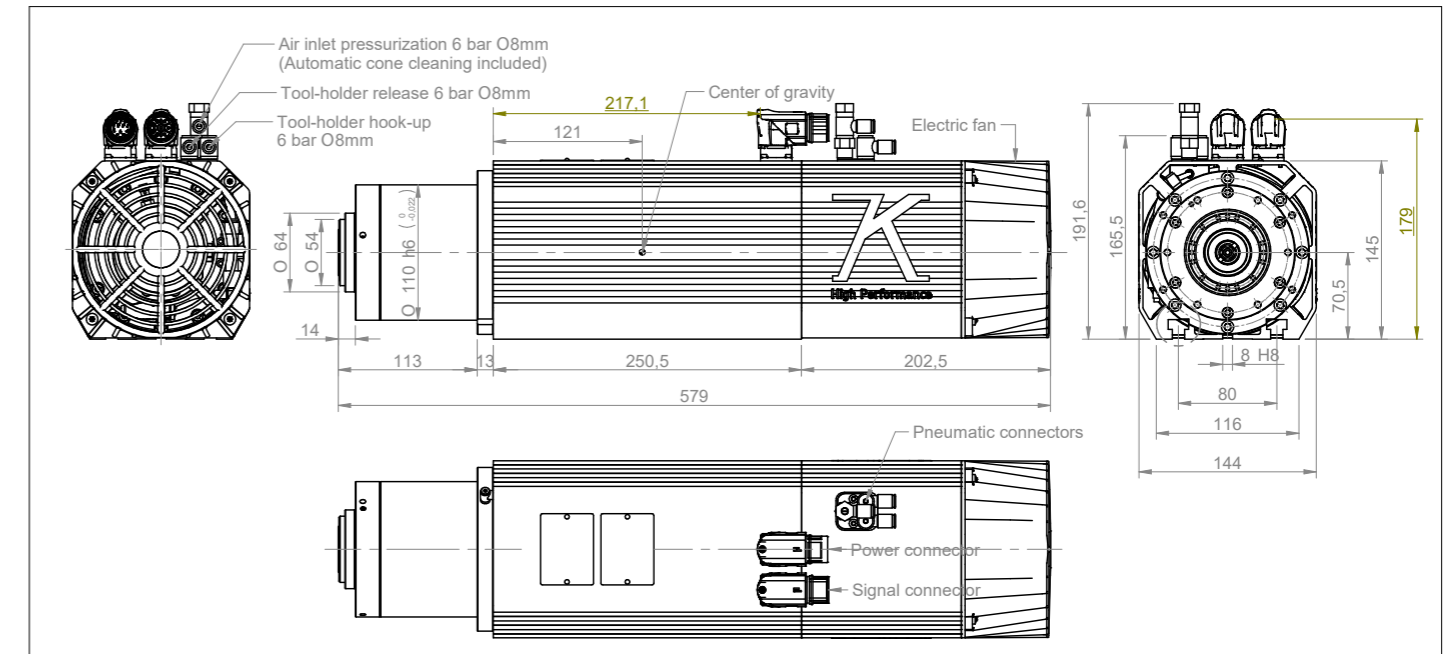
High Performance

ATC71-C-IS030-LN-2P



Power	9.0 kW
Torque	7.2 Nm
Base Speed	12000 rpm
Max Speed	24000 rpm

Tool holder	ISO30
Voltage	380 V (Opt. 220 V)
Weight	30.80 Kg
Order Code	COMTC710009



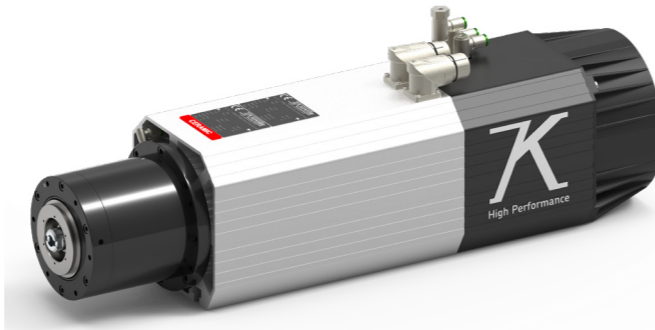
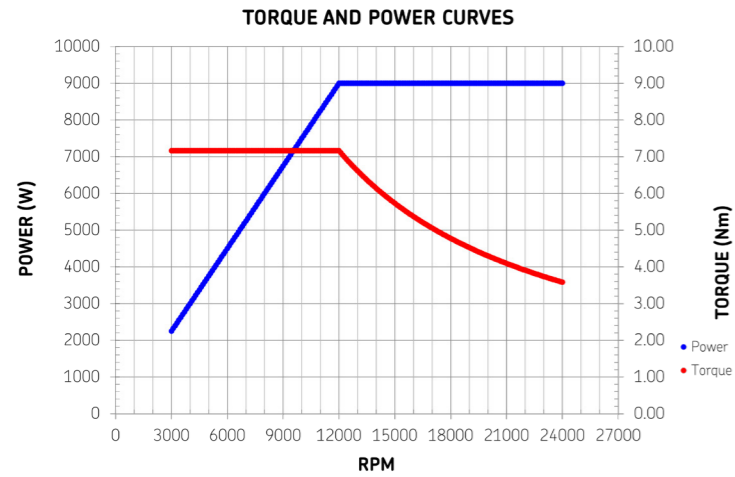


High Performance

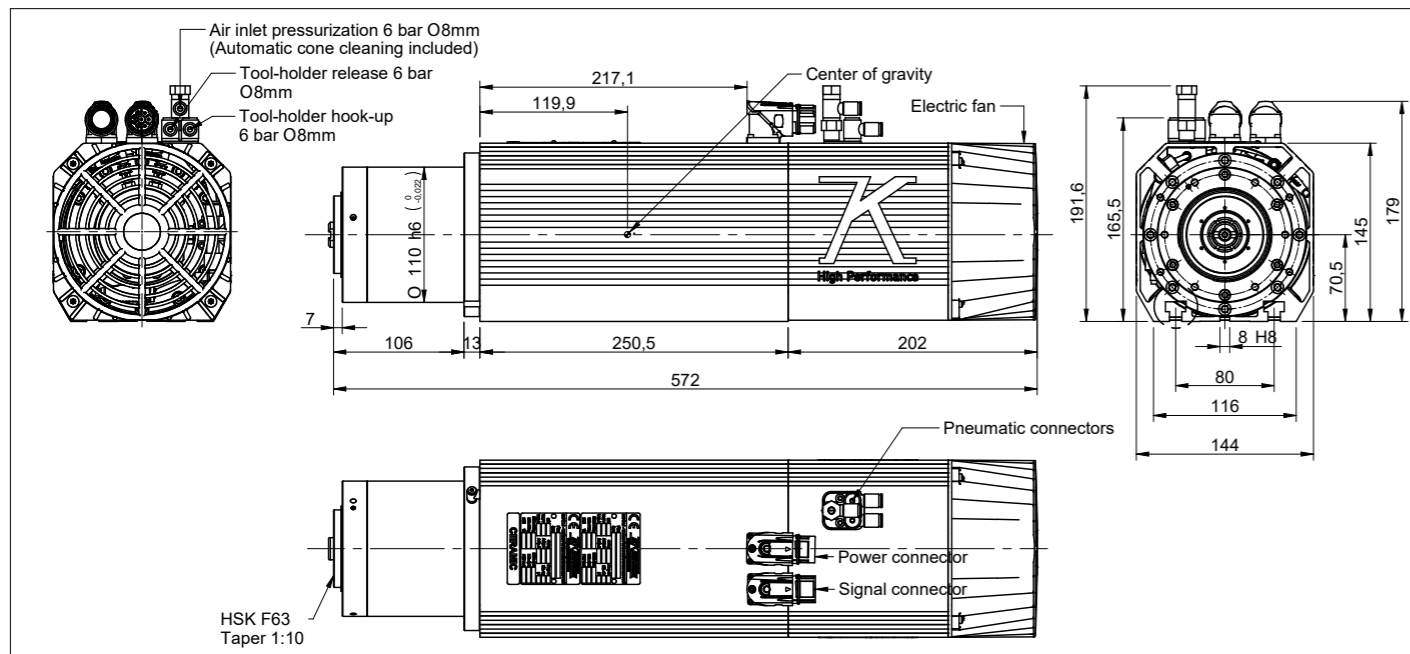
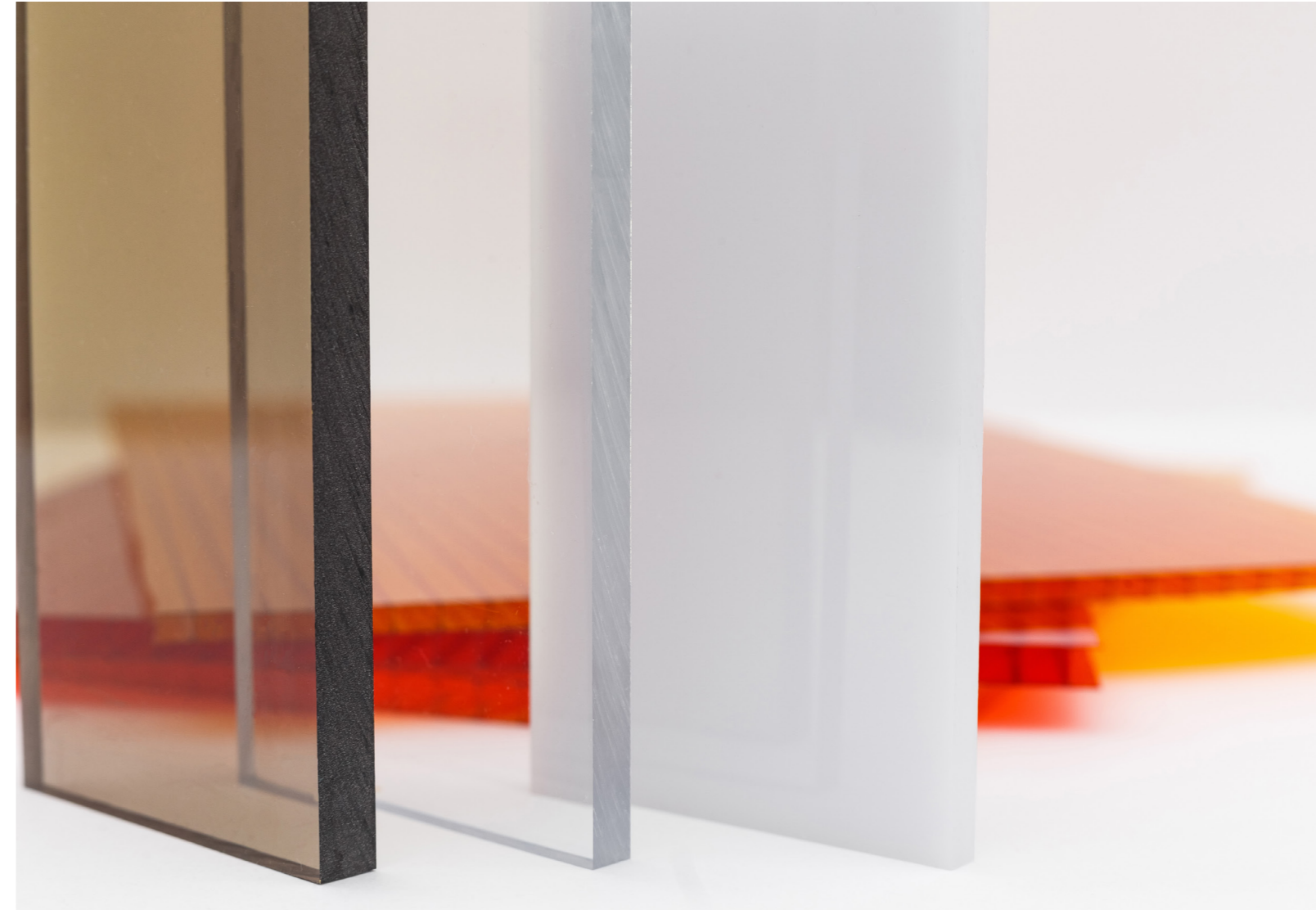


High Performance

ATC71-C-HSK63F-LN-2P



Power	9.0 kW	Tool holder	HSK 63F
Torque	7.2 Nm	Voltage	380 V (Opt. 220 V)
Base Speed	12000 rpm	Weight	90.80 Kg
Max Speed	24000 rpm	Order Code	COMTC710005



STEVES' THOUGHTS

Hello Steve, tell us about Robot Systems...

"Robot Systems is currently building CNC Router and Laser cutting machines. We build 3 axes machines for kitchen industries, cabinets manufacturers, sign manufacturers, composite materials, etc..."

How did you hear about Teknomotor and why do you think it's a strategic choice for your business?

"When I decided to build my own machines, and I wanted to choose a manufacturer, I basically searched online for anybody making spindles, and then I picked one that I thought it's the best, and I came I saw Teknomotor factory 5 years ago.

I think the biggest thing that made me choose Teknomotor was actually..., I remember there was a guy sitting there, and he was checking every spindle there, with the testing equipment, and everything you had to guarantee that everything was done right.

I know that's what I make, I just triple check, Yes! that's right, that's perfect, so to me it was obvious that whoever sat in Teknomotor factory understood the fact that you can't just go and make this and I will just do that for a whole day.

No, it's like you got to check every piece of everything. That was the thing more than anything else that made me want to go with Teknomotor's spindles for my machines. Because I am making machines, and I am promoting them to be running in more than 25 years, and I need the spindles to be the same."

What is the significance of "Made in Italy" for the Australian market?

"I would say, in Australia "Made in Italy" is considered just as good as Made in Australia."

What kind of sensation did you have by visiting the Teknomotor workshop?

"They guys have a lot of machines I don't have, when you say, "what sensations?" I say, I wish I had that. That's rally my feeling"

How do you enjoy your stay in Italy?

"Awesome, like the last time, and I definitely want to come back."



The **lightest** and **shortest** ISO 20 automatic tool changer spindle. ATC-41 – ISO 20 is an Automatic Tool Changer designed to be set up as CNC router spindle and robotic spindle for small to medium-size applications.

More powerful. More compact.

These are the cornerstones in the design of ATC-41 spindle, developed using selected materials of top quality and guaranteeing highest precision in all mechanical manufacturing processes.



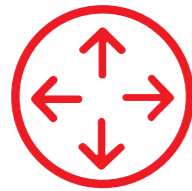
Low weight



Double ceramic bearing nose



Up to 30000 rpm



2 or 4 sensor technology



Air taper Cleaning



Pressurized spindle



Available with Liquid Cooling

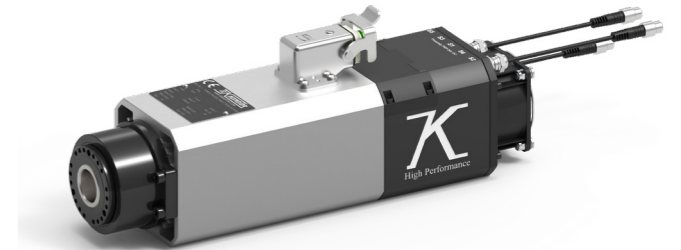
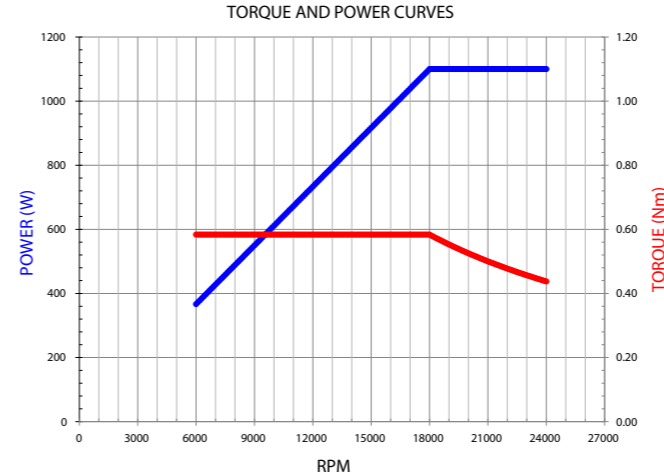


Temperature monitoring



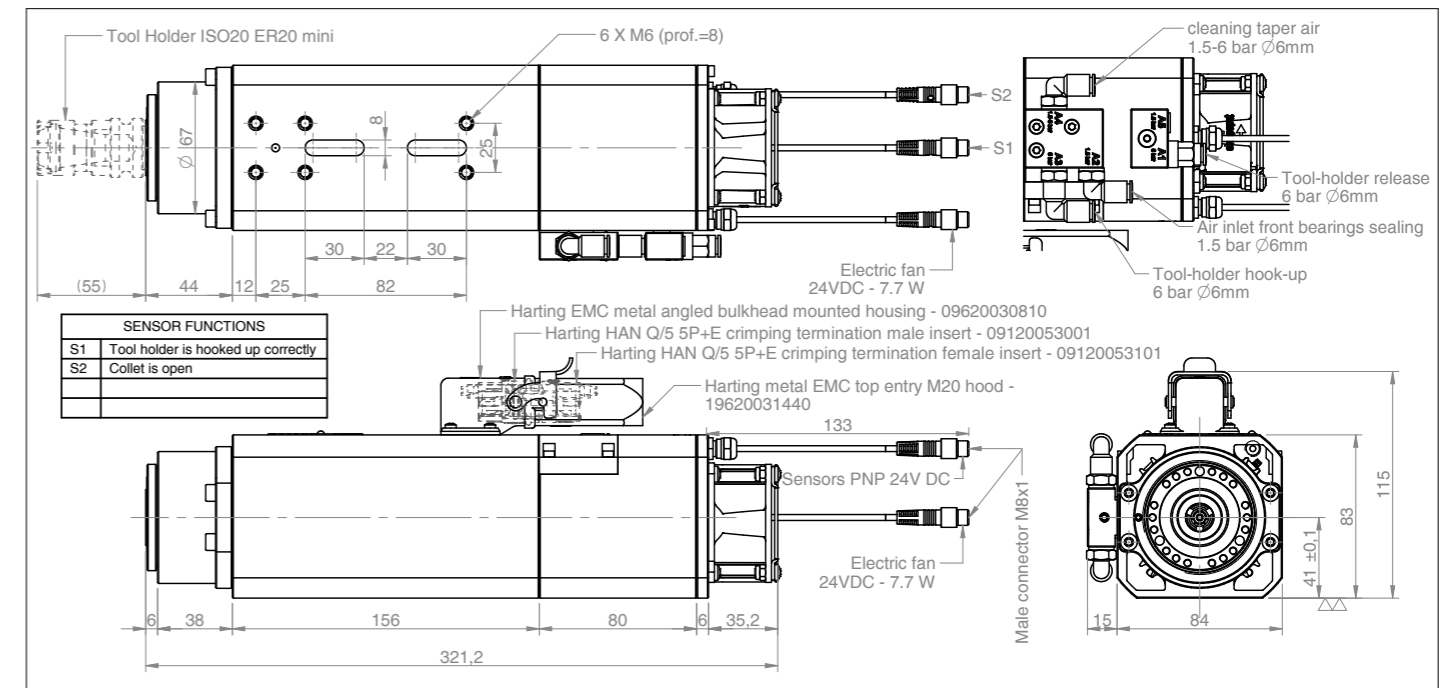
Safety spring tool-holder hook-up

ATC41-A-DB-ISO20-SN S1/S2



Power	1.1 kW
Torque	0.58 Nm
Base Speed	18000 rpm
Max Speed	24000 rpm

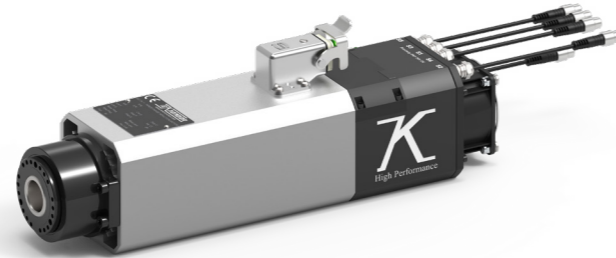
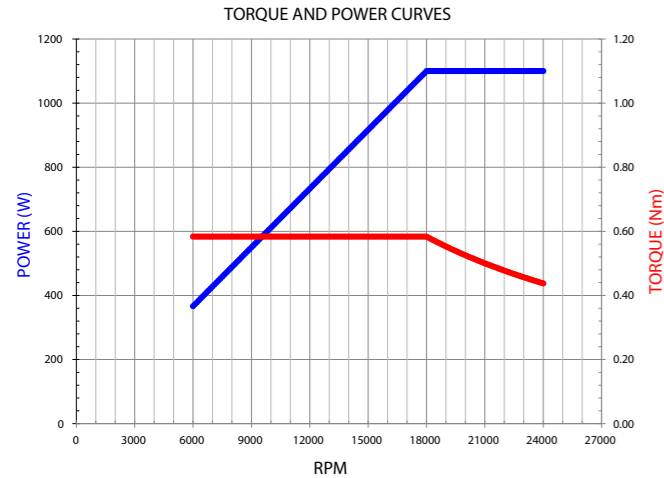
Tool holder	ISO20
Voltage	220 V (Opt. 380 V)
Weight	5.78 Kg
Order Code	COMTC410002





High Performance

ATC41-C-2DB-IS020-SN-HY



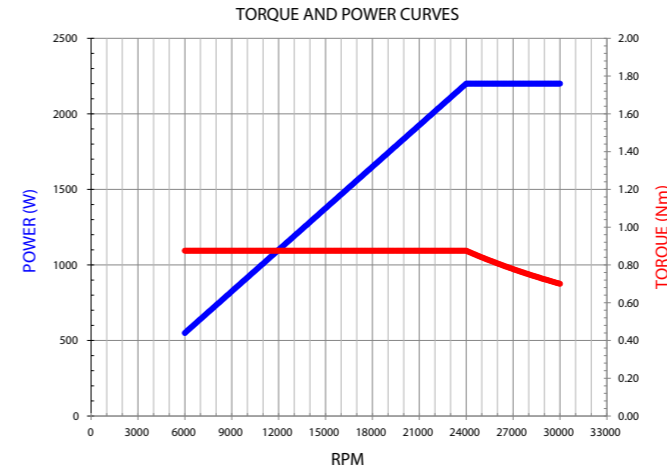
Power	2.2 kW
Torque	0.84 Nm
Base Speed	24000 rpm
Max Speed	30000 rpm

Tool holder	ISO20
Voltage	220 V (Opt. 380 V)
Weight	6.80 Kg
Order Code	COMTC410006



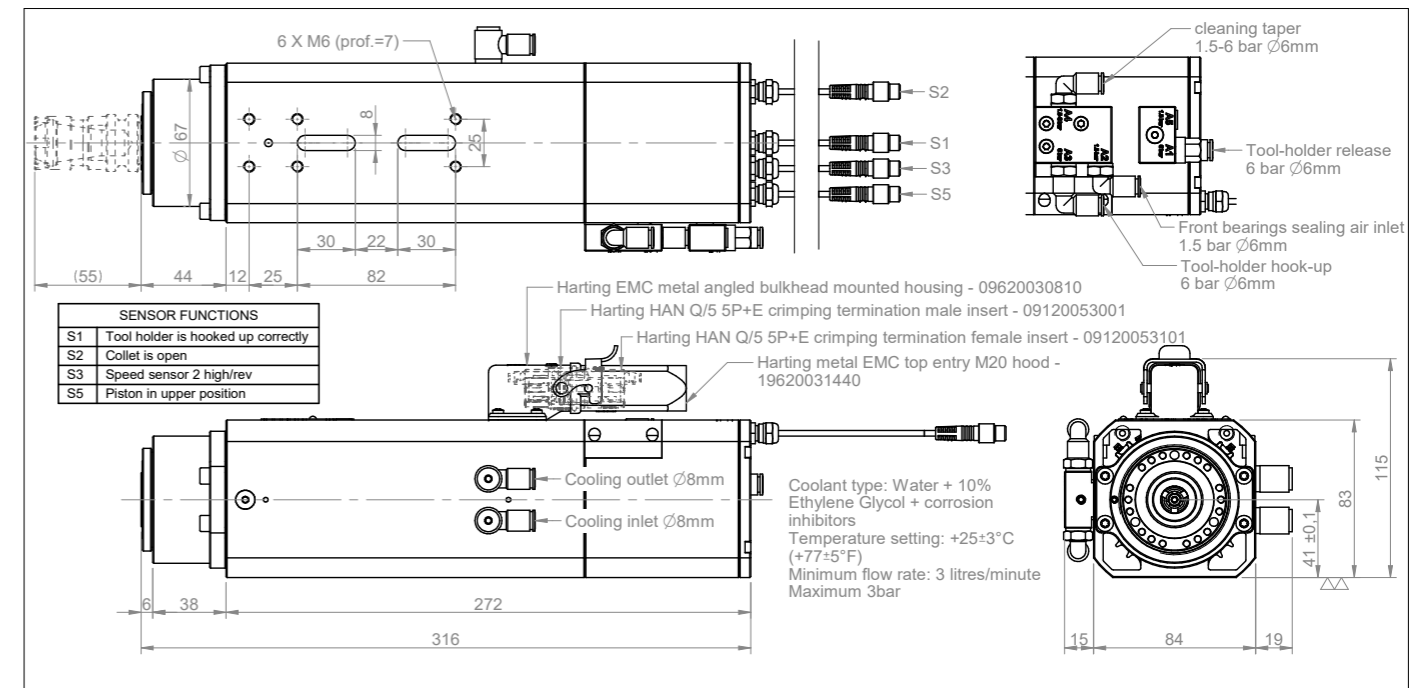
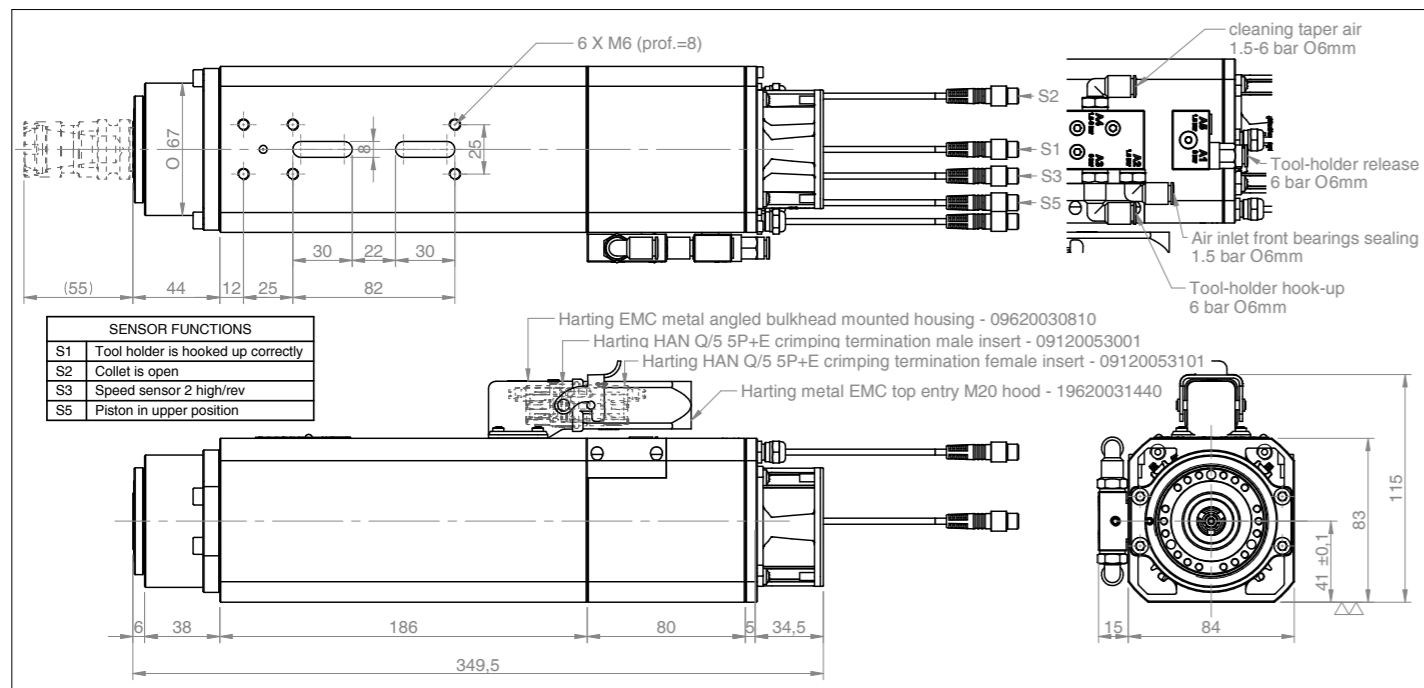
High Performance

ATC41 - ISO20 Liquid Cooled ATC41-C-2DB-IS020-SN-HY-LC



Power	2.2 kW
Torque	0.88 Nm
Base Speed	24000 rpm
Max Speed	30000 rpm

Tool holder	ISO20
Voltage	220 V (Opt. 380 V)
Weight	6.63 Kg
Order Code	COMTC410007





www.khighperformance.com

K – Team

Technical department staff, production and assembly staff, quality control and service operators are selected on the basis of their level of knowledge and competence and are continuously trained for the specifics of the spindles of the K – line: the best skills for the best performance.

#value your time



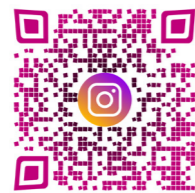
everything you need to be ready to work



Contact the K - team



let's keep in touch, follow us on our social channels:



[@teknomotor.srl](#)



TEKNOMOTOR

TEKNOMOTOR srl
Via Argenega, 31
32038 Quero Vas (Belluno) - Italy
Tel: +39 0439 787950 / Fax: +39 0439 780147
www.teknomotor.com
info@teknomotor.com