

X30

motor spindle



Powerful high-frequency motor spindle – fully configurable in tool change, interface and cooling. made in Germany.

Overview

Series	X30 – powerful high-frequency motor spindle (HF CNC milling spindle)
Power	up to 6.0 kW (S1 continuous duty)
Motor type	Asynchronous or synchronous (6.0 kW) – 400 V (3.0 kW optionally 230 V)
Speed	up to 45,000 rpm (depending on configuration), base equipment 25,000 rpm, configurable 20,000 – 45,000 rpm
Cooling	air (L) or liquid cooling (F)
Country of origin	Germany – development & manufacture in Weiterstadt (made in Germany)

Base configurations & weights

INTERFACE	TOOL CHANGE	COOLING	WEIGHT
ER25	manual (MTC)	air liquid	L 9.5 · F 9.7 kg
HSK-C32	semi-automatic (QTC)	air liquid	L 9.8 · F 9.8 kg
HSK-C40	semi-automatic (QTC)	air liquid	L 9.8 · F 9.8 kg
HSK-E32	automatic (ATC)	air liquid	L 12.9 · F 12.4 kg
HSK-E40	automatic (ATC)	air liquid	L 12.9 · F 12.4 kg
SK30	automatic (ATC)	air liquid	L 12.9 · F 12.4 kg

12 base configurations; motor, speed, bearings and sensors are freely selectable in addition. Max. speed of all interfaces 45,000 rpm. SK30 to DIN 69871, HSK-E to DIN 69863.

Motor variants

POWER (S1 S6)	VOLTAGE	POLES	CURRENT (S1)	MOTOR TYPE
3.0 3.3 kW	230 V 400 V	2- 4-pole	10.9 6.3 A	asynchronous
4.0 4.5 kW	400 V	2- 4-pole	8.4 A	asynchronous
5.0 5.5 kW	400 V	2- 4-pole	10.5 A	asynchronous
6.0 7.3 kW	400 V	4-pole	9.4 A	synchronous

S1 = continuous duty, S6 = intermittent duty. Base configuration 4.0 kW | 400 V | 2-pole.

Sensors & protection

Sensors	temperature PTC 130 °C at the winding head (opt. PTC 70 °C or PT100 at the bearing); speed inductive or encoder; clamping piston position (ATC)
Sealing	5-stage labyrinth seal at the front bearing – saves sealing air
IP rating	IP54 (liquid) – optionally IP65 IP20 (air) – optionally IP50
Warranty	3 years – extendable up to 6 years