High frequency spindles
for **manual tool changing** with suitable freqency converters

HFS 800 / 2200

HFS 2200

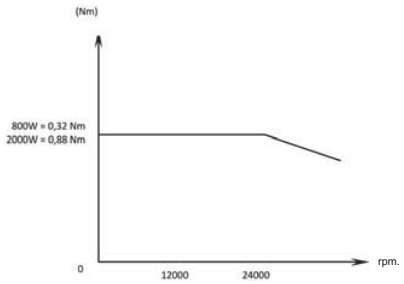
HFS 800

Features Spindles

- Robust 2-pole AC motor
- Speed range 5,000 rpm. – 24,000 rpm.
- Motor shaft to take ER 11 (1-8mm) / ER 20 (1-13mm)
- Spindle bearing, 2 bearings A-side, 1 bearing B-side, SKF bearing
- Round design, protection class IP 54, insulation class F, CE
- Self-ventilation B-side
- M23 connector
- Manual tool change
- Controlled by frequency converter

Options: Clamping block, motor cable, braking resistor, collets

Torque curves



Technical specifications

Description	HFS 800	HFS 2200
Power [W]	800	2200
Torque at rated speedl 24,000 rpm. [Nm]	0.32	0.88
Speed [rpm.]	500 to 24,000	
Maximal frequency [Hz]	400	
Cut-off frequency [Hz]	400	
Number of poles	2	
Rated voltage [V]	220	
Rated current [A]	2.5	8.0
cos ϕ	0.9	
Concentricity [mm]	0.01	
Weight [kg]	2.9	5.6

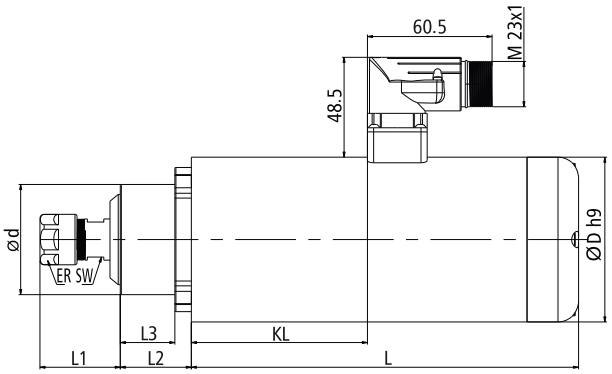
The air cooled high frequency spindle is driven by an diagonal designed squirrel cage motor. This kind of design allows an extremely smooth torque curve.
The HFS spindle series offers a great performance and torque and is used in small and medium-sized systems.

Frequency converter	Item-No.
for HFS 800	**310802 2011**
for HFS 2200	**310802 2012**

Features Frequency converter

- Torque control U / F, (vector) open loop
- 100% starting torque at 0.5Hz
- High capacity 150% overload for 60 sec.
- Programmable inputs and outputs, relay output, analog input / output
- 5-digit, removable LED keypad
- Input voltage single phase 230VA
- Fast braking of the spindle by external braking resistor can be connected

Dimensioned drawings



	HFS 800	HFS 2200
Item-No.	477008 30240	477022 30240
ER	11	20
SW	13	22
L [mm]	186.5	244
KL [mm]	103.5	148.5
L1 [mm]	32	46.5
L2 [mm]	16	17
L3 [mm]	8.5	8
d [mm]	49.8	58.5
D [mm]	65	80

Technical specifications subject to change.