

PRODUCT DESCRIPTION

Max. power output	1,1 kW
Power output S6 60%	0,5 kW
Power output S1 100%	0,8 kW
Rotation speed	to 60.000 rpm
Diameter	45 mm / 60 mm
Spindle interface	automatic collet direct clamping

FEATURES



Ceramic bearing



Permanent grease lubricated bearings



Air seal



Speed control



Motor temperature control



Available equipment:

Frequency converter, Cooling unit
Collet chucks

TECHNICAL SPECIFICATIONS

Motor data

Motor type	asynchron
Number of pol's	2
Speed range (rpm) max.	60.000
Power output S1/S6 60% (kW)	0.5 / 0.8
Torque S1/S6 60% (Nm)	0.19 / 0.3
Frequency range (Hz) max.	1000
Max. voltage (Volt)	210
Nominal current (Amp.)	2
Maximum current (Amp.)	3

ATC controll

Number of sensors	-
Type of sensors	-
Controlled positions	
- tool clamped	-
- tool unclamped	-
- clamped no tool	-

Speed control

Inductive sensor	6 Impulse/RPM 1V _{ss}
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Bearing data

Bearings	Hybrid - Ceramic
Lubrication	Grease
Temperature protection	-
Recommended air seal (bar)	1 - 2
Air seal requirements (l/min)	80

Spindle cooling

Recommended coolant	cooling through spindle bracket
Cooling requirements (kW)	0.2 - 0.3
Coolant temperature (° C)	-
Max. coolant (bar)	-

Shaft data

Run out accurary	
- Axial eccentricity (µm)	-
- Spindle taper (µm)	< 2
Balance quality	G 0,4
Vibration (mm/s)	< 1
Static axial stiffness (N/µm)	13
Static radial stiffness (N/µm)	22

Connections

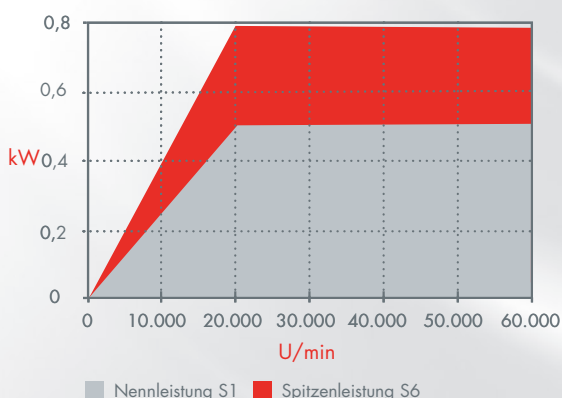
Power connection	8 - pol
ATC controll	-
Encoder / Speed sensor	integrated into power connection
Coolant	-
Air seal	1 x Ø 6mm (M5)
ATC	1 x Ø 6mm (5 M)
Taper air purge	-
Coolant mist system	-

Tooling

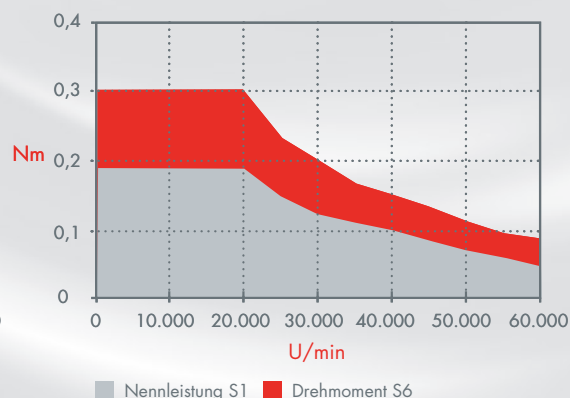
Soindle interface	automatic collet direct clamping
Tool clamping / release pressure (bar)	6 (pneum.)
Taper cleaning press. (bar)	
Max. Tool diameter (mm)	6,35mm (1/4")

Spindle diameter (mm)	Ø 45/60
Spindle arretation	Spindle bracket / mounting flange
Weight (kg)	ca. 2

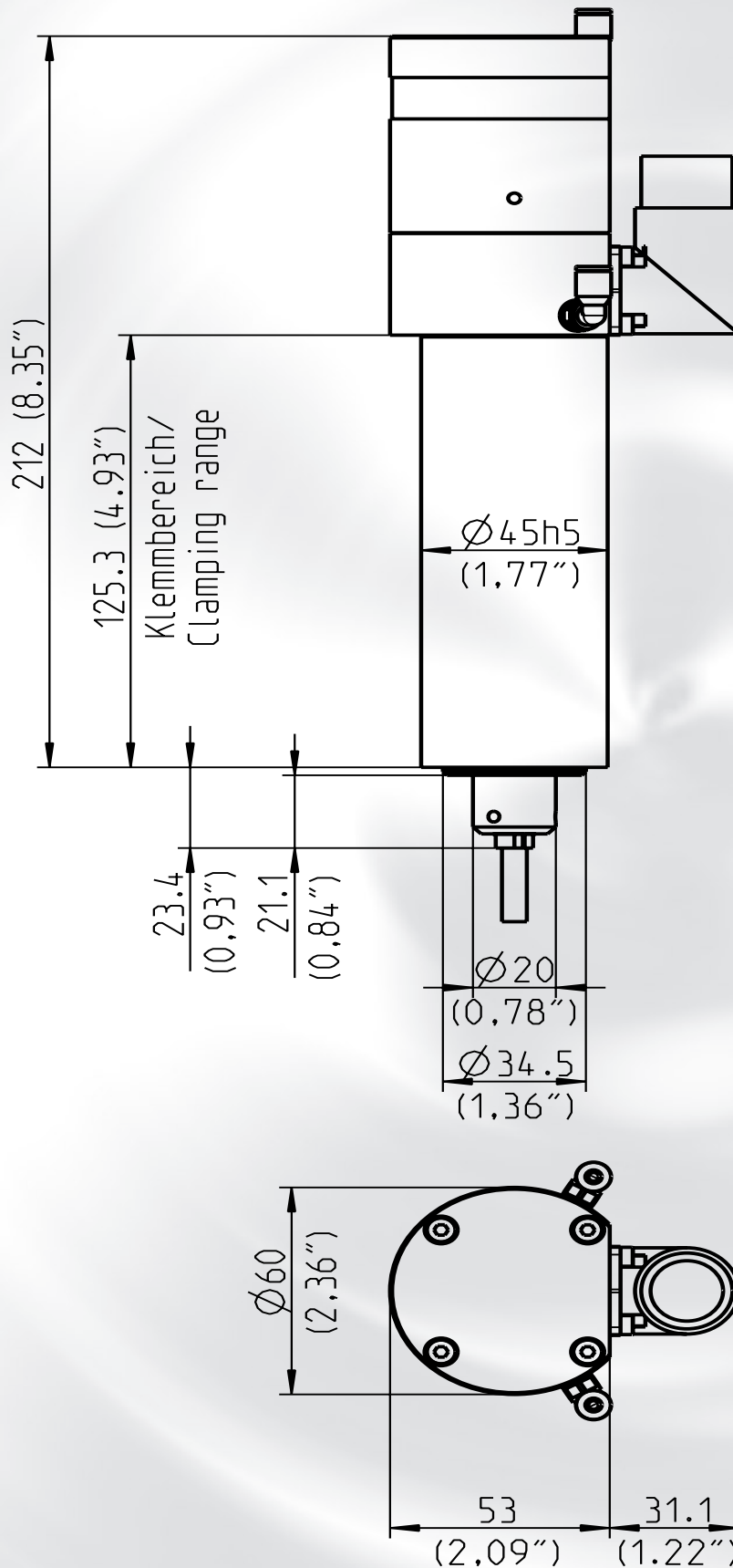
Power diagramm



Torque diagramm



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Spindelanschlüsse Spindle connections

1 Leistungsstecker / Power connection

PIN	Funktion
	Erde Schutzleiter / Ground
1	Motorphase U
3	Motorphase W
4	Motorphase V
A	Feldplatte / Speed sensor (+ 5 Volt)
B	Feldplatte / Speed sensor
C	PTC - Motortemperaturüberwachung Motor protection
D	Umformer Masse / Ground converter

2 Stecker Werkzeugüberwachung / ATC control plug

Nicht vorhanden / not available

3 Minimalmengenprühanschluss Coolant mist system connection

Nicht vorhanden / not available

4 Kegelreinigungsanschluss Taper cleaning connection

Nicht vorhanden / not available

5 Kühlmittelanschluss Vorlauf Coolant connection forward flow

Nicht vorhanden / not available

6 Kühlmittelanschluss Rücklauf Coolant connection return flow

Nicht vorhanden / not available

7 Sperrluftanschluss Air purge connection

8 Werkzeugwechselanschluss Tool change connection

PRODUCT DESCRIPTION

Max. power output	1.1 kW
Power output S6 40%	0.6 kW at 36.000 rpm
Power output S1 100%	0.45 kW at 36.000 rpm
Rotation speed	to 60.000 rpm
Diameter	45 mm
Spindle interface	Collet ER11



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