

## PRODUCT DESCRIPTION

Power output S6 40%	2.0 kW
Power output S1 100%	1.4 kW
Rotation speed	to 60.000 min-1
Diameter	62 mm
Spindlehousing	stainless steel
Spindle interface	Collet ER11



## FEATURES

-  Oil/Air mist lubrication
-  Interchangeable mounting taper
-  Hybrid-ceramic-bearings
-  Permanent grease lubricated bearings
-  Air seal
-  Liquid cooling
-  Motor temperature control

### Available equipment:

Frequency converter, Cooling unit, Supply lines,  
Tool cooling system, Spindlebracket, Collet  
chucks, Collets.

## TECHNICAL SPECIFICATIONS

### Motor data

Motor type	asynchron
Number of pol's	2
Speed range (rpm) max.	60.000
Power output S1/S6 40% (kW)	1.4 / 2.0
Torque S1 / S6 40% (Nm)	0.24 / 0.32
Frequency range (Hz) max.	1000
Max. voltage (Volt)	210
Nominal current (Amp.)	5.5
Maximum current (Amp.)	8

### Bearing data

Bearings	ceramic - hybrid
Lubrication	grease
Temperature protection	-
Recommended air seal (bar)	1 - 2
Air seal requirements (l/min)	80

### Shaft data

Run-out accuracy	
- 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

### Tooling

Spindle interface	ER 11
Tool clamping / release pressure (bar)	-
Taper cleaning pres. (bar)	-
Max. Tool diameter (mm)	7

### ATC control

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

### Spindle cooling

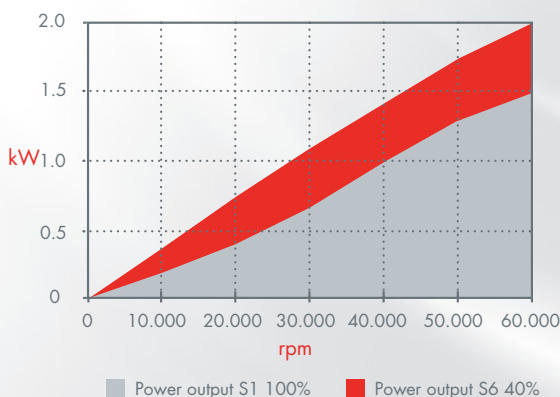
Recommended coolant	liquid water / without coolant the power output reduces to (400 Watt - 50.000 U/min)
Cooling requirements (kW)	0.4 - 0.5
Coolant temperature (° C)	20 ± 2

### Connections

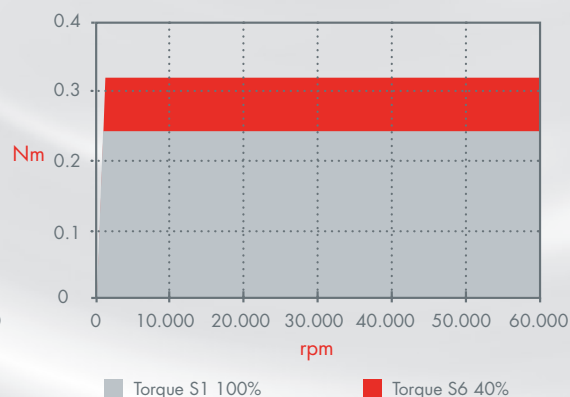
Power connection	9 - pol
ATC control	-
Encoder / Speed sensor	-
Coolant	Self locking connector 2 x Ø 8 mm (1/4")
Air seal	Self locking connector 1 x Ø 6mm (1/8")
ATC	-
Taper air purge	-
Coolant mist system	Connection plug male (1/4")

Spindle diameter (mm)	62
Spindle arretation	- taper cone - flange
Weight (kg)	ca. 8.0

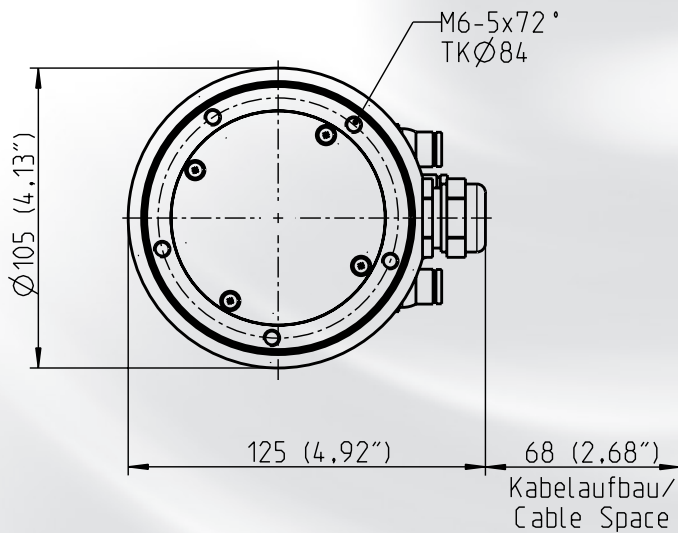
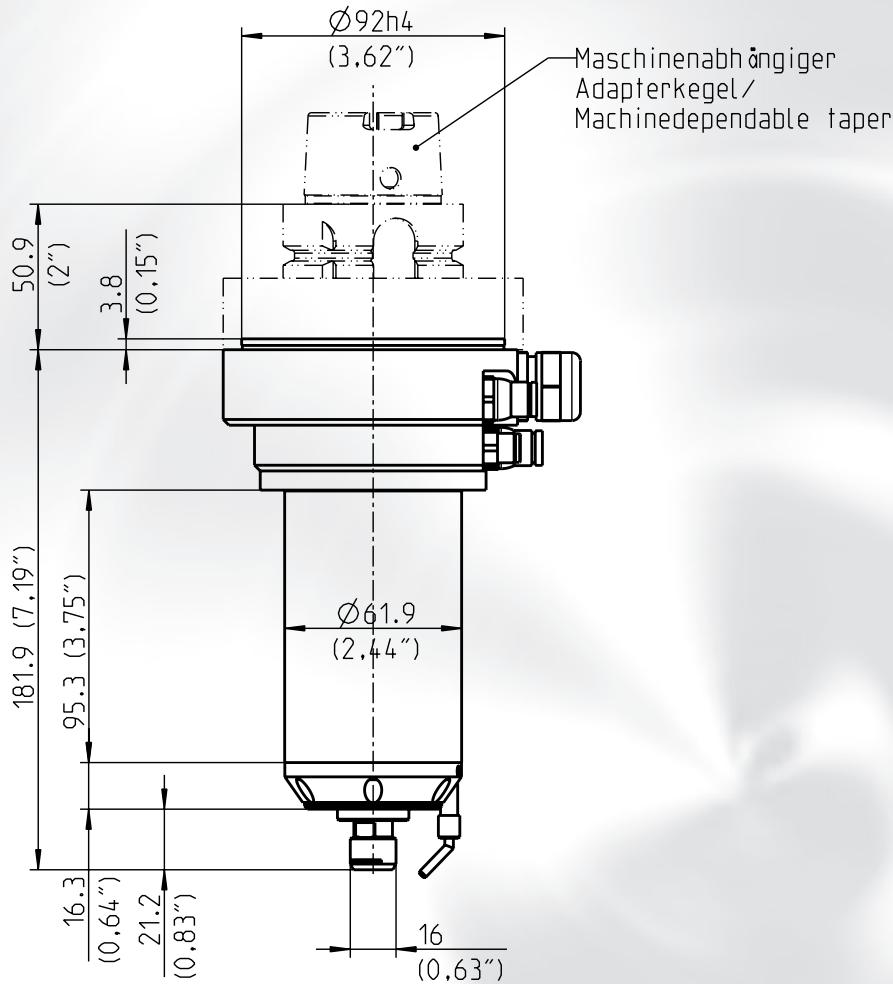
### Power diagram



### Torque diagram



MAßZEICHNUNG  
DIMENSIONAL DRAWING



## Spindelanschlüsse Spindle connections

- 1 Leistungsstecker 9-pol  
Power connection 9-pin
- 2 Stecker Werkzeugüberwachung /  
ATC control plug  
Nicht vorhanden / not available
- 3 Minimalmengensprühanschluss  
Coolant mist system connection
- 4 Kegelreinigungsanschluss  
Taper air purge connection  
Nicht vorhanden / not available
- 5 Kühlmittelanschluss Vorlauf  
Coolant connection forward flow
- 6 Kühlmittelanschluss Rücklauf  
Coolant connection return flow
- 7 Sperrluftanschluss  
Air seal connection
- 8 Werkzeugwechselanschluss  
Tool change connection  
Nicht vorhanden / not available

