







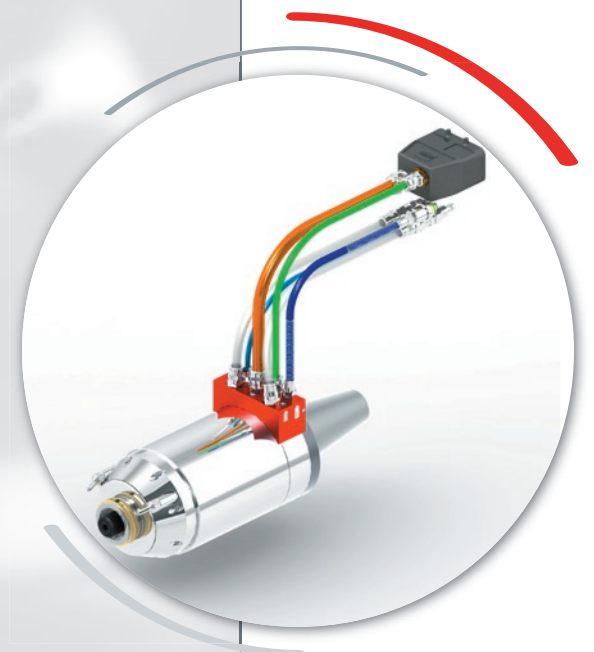
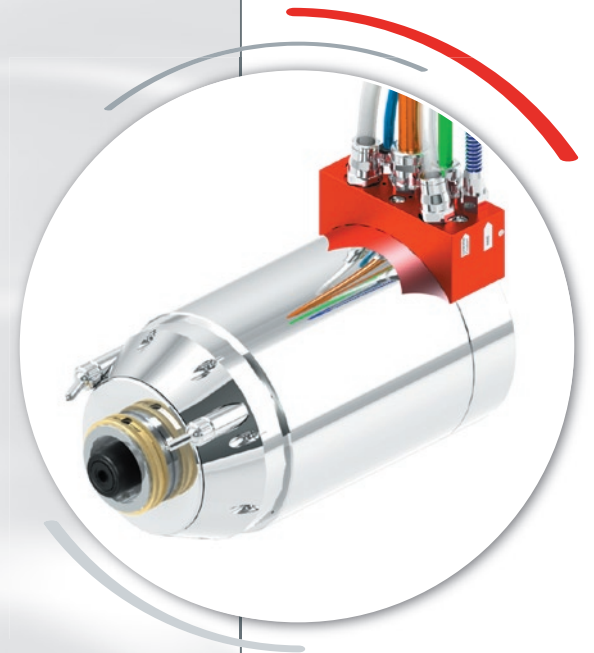


## PRODUCT DESCRIPTION

Power output S6 40%	15.0 kW at 13.500 rpm
Power output S1 100%	11.0 kW at 13.500 rpm
Rotation speed	to 26.000 min-1
Diameter	126 mm
Spindle housing	stainless steel
Spindle interface	HSK - C50

## FEATURES

-  Modular spindle cartridge
-  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, Spindle Cartridge, etc.

## TECHNICAL SPECIFICATIONS

### Motor data

Motor type	asynchron
Number of pol's	4
Speed range (rpm) max.	26.000
Power output S1/S6 40% (kW)	11.0 / 15.0
Torque S1 / S6 40% (Nm)	7.8 / 10.6
Frequency range (Hz) max.	867
Max. voltage (Volt)	380
Nominal current (Amp.)	25 / 33
Maximum current (Amp.)	40

### Bearing data

Bearings	ceramic - hybrid
Number of bearings	4
Lubrication	grease
Temperature protection	-
Recommended air seal (bar)	1 - 2
Air seal requirements ( l/min )	80

### Shaft data

Run-out accuracy	
- Axial eccentricity (µm)	< 1
- Spindle taper (µm)	< 2
Balance quality	G 0.4
Vibration (mm/s)	< 1
Static axial stiffness (N/µm)	71
Static radial stiffness (N/µm)	152

### Tooling

Spindle interface	HSK - C50
Tool clamping / release pressure (bar)	-
Taper cleaning pres. (bar)	-
Max. Tool diameter (mm)	25

### ATC control

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

### Spindle cooling

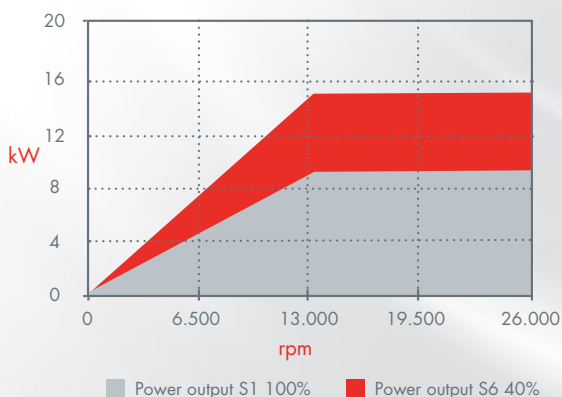
Recommended coolant	liquid water
Cooling requirements (kW)	1.5 - 2.0
Coolant temperature (° C)	20 ± 2
Max. coolant pressure (bar)	3

### Connections

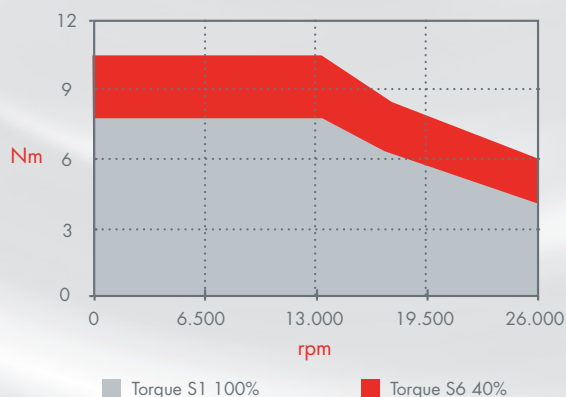
Power connection	12-3-12 - pol / Cable 1.5m
ATC control	-
Encoder / Speed sensor	-
Coolant	Self locking connector 2 x Ø 10mm (1/4") / Cable 1.5m
Air seal	Self locking connector 1 x Ø 6mm (1/4") / Cable 1.5m
ATC	-
Taper air purge	-
Coolant mist system	Connection plug male (1/4") / Cable 1.5m

Spindle diameter (mm)	126 mm
Spindle arretation	- taper cone - flange
Weight (kg)	ca. 17

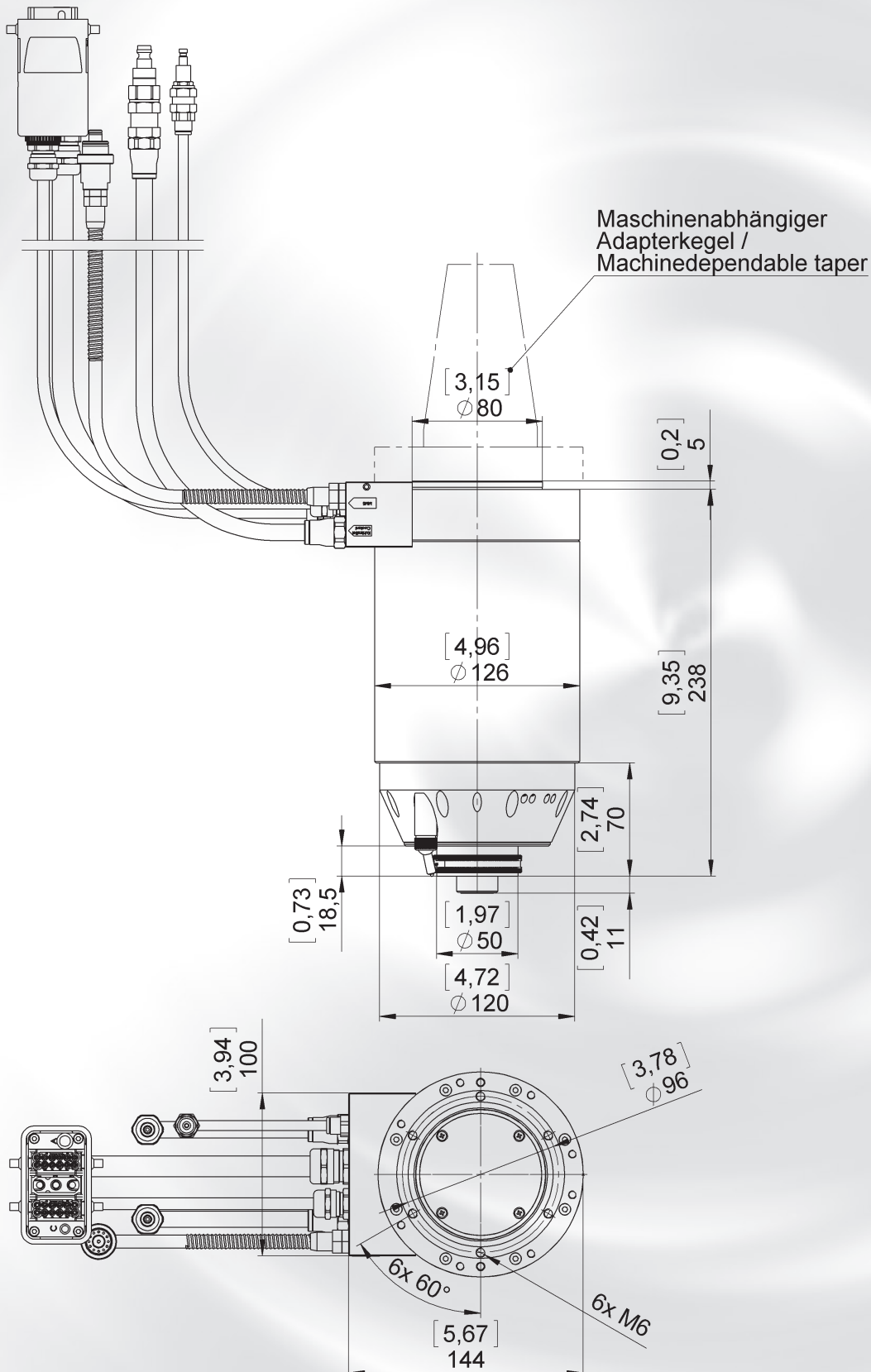
### Power diagram



### Torque diagram



MAßZEICHNUNG  
DIMENSIONAL DRAWING



## Spindelanschlüsse Spindle connections

- 1 Leistungsstecker 12-3-12-pol  
Power connection 12-3-12-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

