

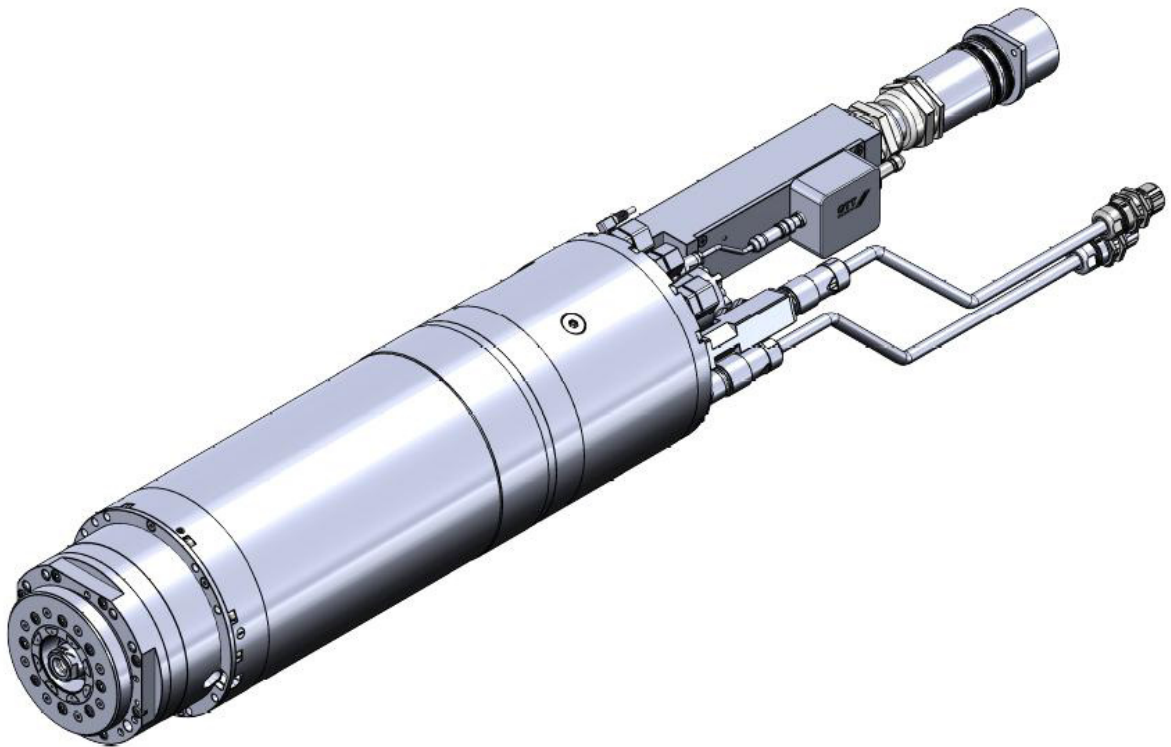
Milling Motor Spindle SPL 2591.1 – Data Sheet

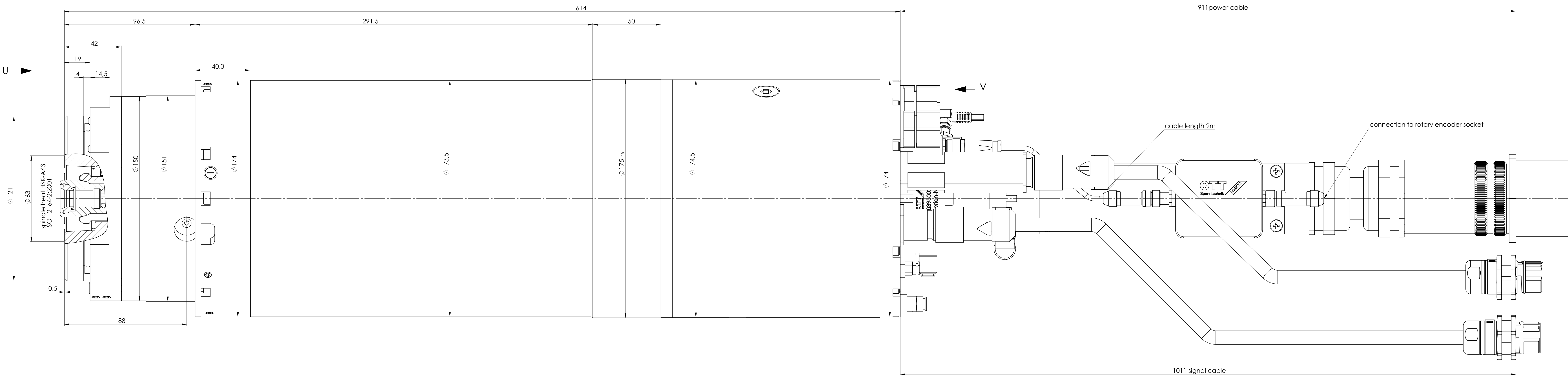


photo for illustrative purposes only

Technical Data

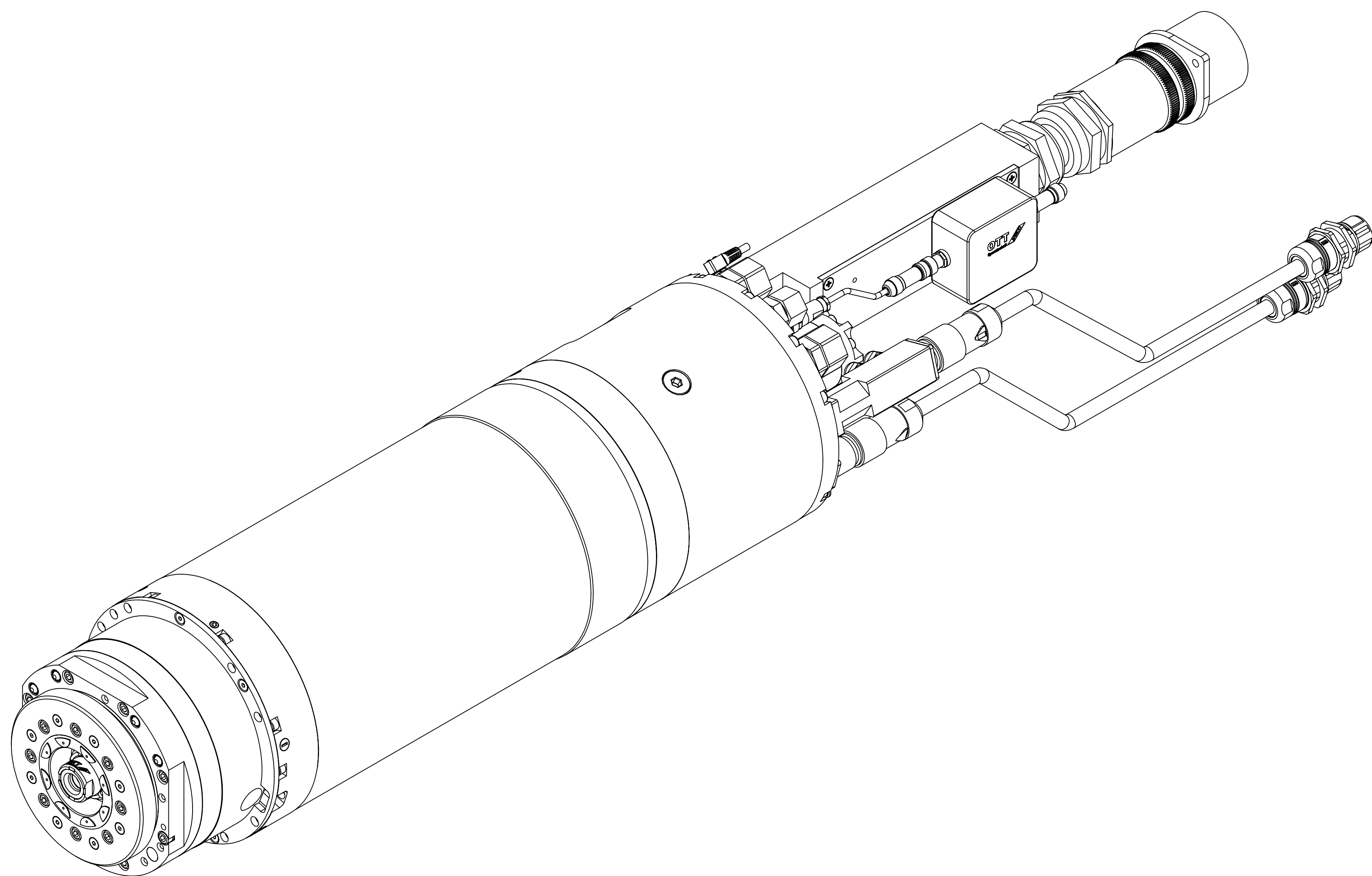
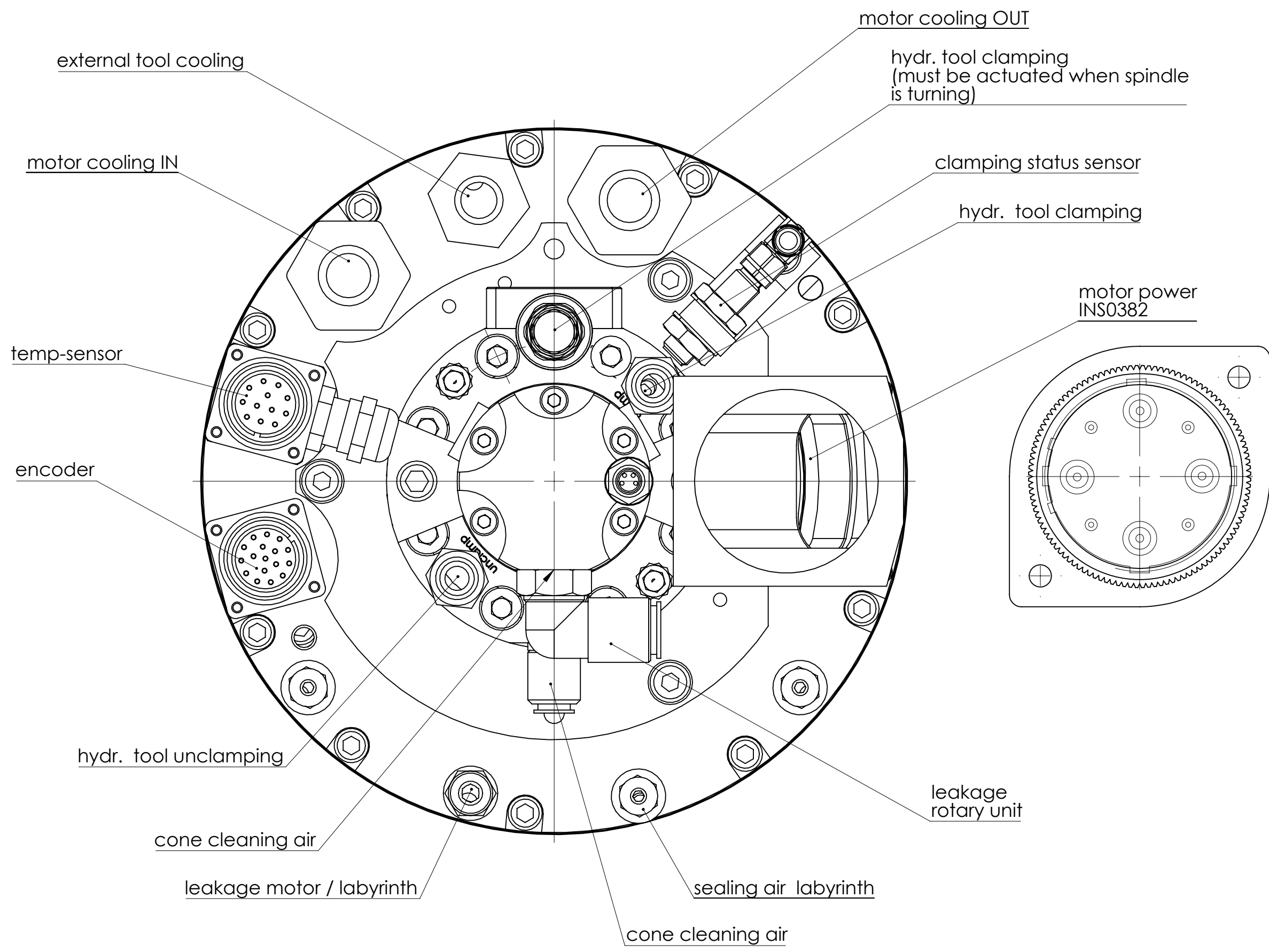
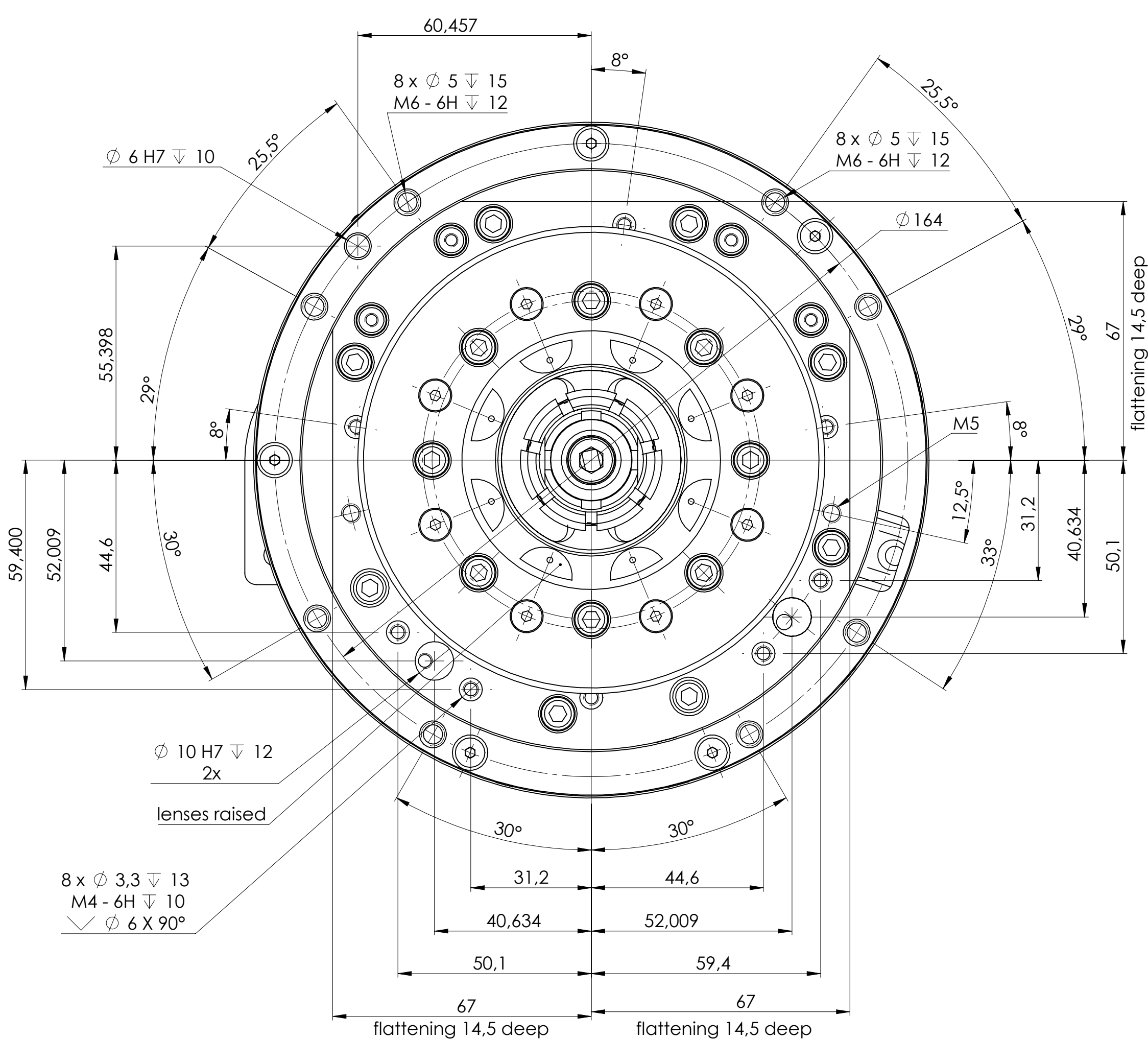
Product category	Milling
Application	High-Speed milling
Tool holder	HSK-A63 – automatic tool clamping
Nominal power	48kW
Nominal speed	10.000rpm
Maximum speed	18.000rpm
Torque	45Nm
Encoder	1VSS, integrated





view U

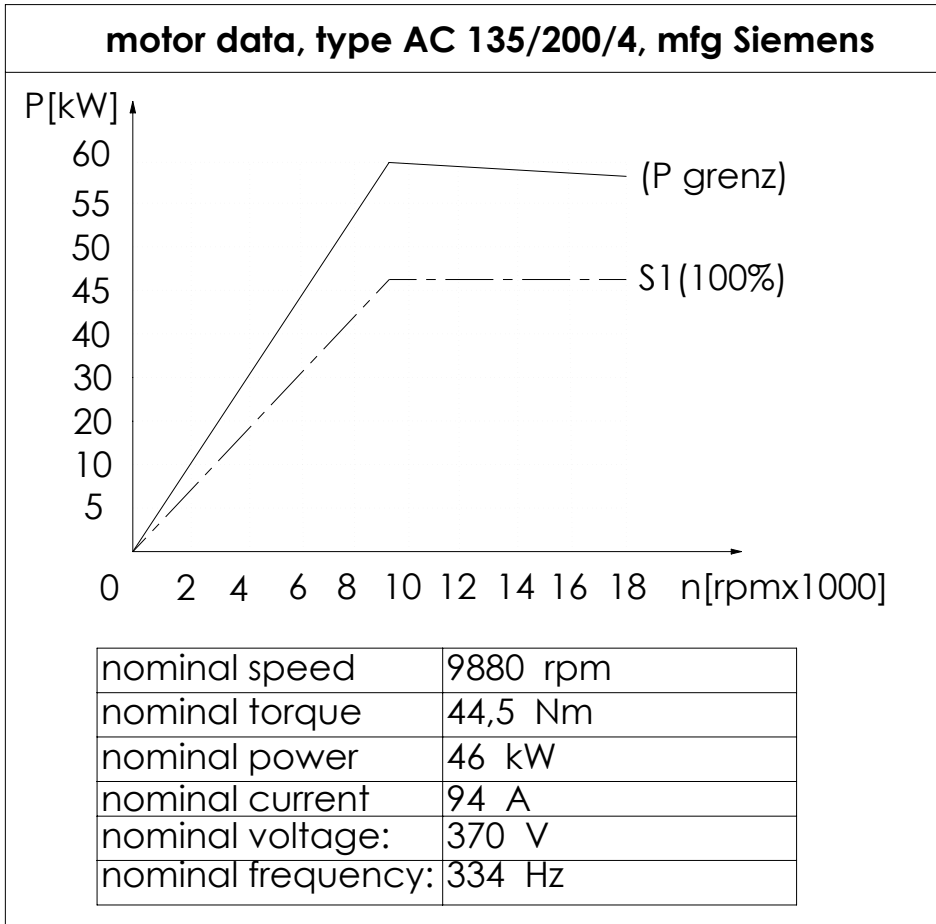
view V



tool clamping system, mfg. OTT-Jakob	
Hollow shank ISO1214-1 HSK-A63 IFH63-AB-5-ES0300-0538.0	
Technical Data	
clamping force	18 kN
speed	16000 rpm
Piston diameter	57 mm
Piston surface area (Loosening)	19.36 cm²
Piston surface area (Clamping)	16.96 cm²
Max. oil volume	45 cm³
Max. stroke	11 mm

rotary unit, mfg. OTT-Jakob	
Technical Data	
medium:	coolant
speed:	16000 rpm max. 36000 rpm)
max. pressure:	105 bar (max. 140 bar)
temperature off cooling	max. 71°C
lubrication fluid	up to 19 mm
axial movement	

sensor clamping tool position, mfg. OTT-Jakob	
type: Stroke measuring system function: analogues operating voltage 18...28V DC operating current (No-load) max. 100mA nominal operating voltage 24V DC ambient temperature max. 80 °C signal 4...20mA	
encoder RGM2G-A-V5Z-256/T30, mfg. VS-Sensorik	
measuring wheel modul m=0.3; 256 teeth	
operating voltage: 5 V DC ±5% output signal: two sinusoidal-signals moved around 90° reference impulse signal level: difference signal 1 Vss	



technical data			
type:	motor spindle		
use:	milling spindle		
speed:	18000 rpm		
motor:	type: Typ: AC 135/200/4, synchron water cooling Q: 8 ...10 lpm pmax: 7 bar		
bearings:	hybrid bearing, grease lubrication		
clamping system:	IFH63-AB-5-ES0300-0538.0		
encoder:	RGM2G-AM2-M3Z/P050		
sealing air:	0.8bar max. 1bar (measured at the spindle connection)		
installation position:	horizontal		
edges without dimension ISO 13715 fine edge coarse edge	general tolerances ISO 2768-m-H	surface description ISO 1302 Ra: 3.2 µm	practise method ISO 6462
weight ***	scale 1:1	material ---	origin model no.
date	name	description	
no:		milling motor spindle	
draw:		HSK-A63, 48 kW, 60 Nm, 18.000 rpm	
check:		2591.1-00.0W-00	
draw:		drawing no.	
draw:		2591.1-00.0W-00	
draw:		replace for:	
draw:		replaced by:	
draw:		page 1	
draw:		2/30	