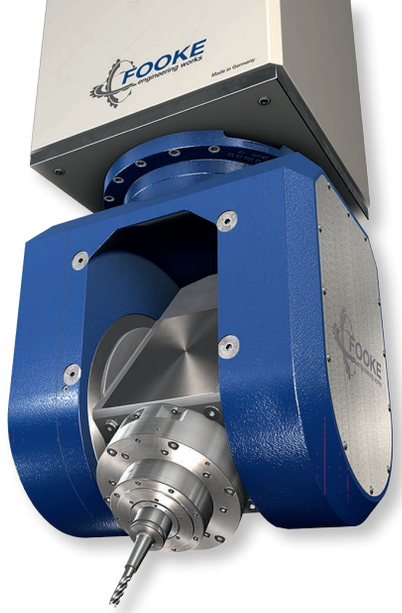
TORQUE MOTORS
IN C- AND A-AXIS



DIRECT MEASURING
SYSTEMS IN C- AND
A-AXIS

MILLING HEAD 11

C-axis (Milling head rotary axis)	
Pivoting angle:	550° (+/-275°)
Pivoting torque:	170 Nm
Clamping torque:	750 Nm
Revolution:	300°/sec
Axis acceleration:	600°/sec²
Position accuracy:	15“ (0.0041°)
Position deviation:	10“ (0.0027°)

A-axis (Spindle pivoting axis)	
Pivoting angle:	220° (+/-110°)
Pivoting torque:	250 Nm
Clamping torque:	750 Nm
Revolution:	300°/sec
Axis acceleration:	600°/sec²
Position accuracy:	15“ (0.0041°)
Position deviation:	10“ (0.0027°)

High-frequency milling spindle 1	
Tool holding fixture:	HSK63 A
max. power:	20 kW
max. rpm:	22,000 rpm
max. torque:	30 Nm

High-frequency milling spindle 2	
Tool holding fixture:	HSK63 A
max. power:	20 kW
max. rpm:	30,000 rpm
max. torque:	21.5 Nm

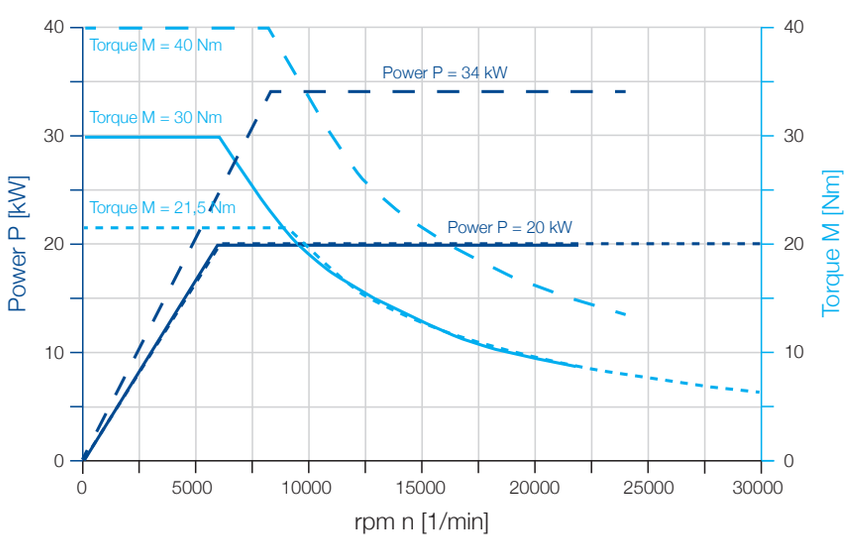
High-frequency milling spindle 3	
Tool holding fixture:	HSK63 A
max. power:	34 kW
max. rpm:	24,000 rpm
max. torque:	40 Nm

Milling head 11

High-frequency milling spindle
HSK63 A

with 20 kW, 22,000 rpm ——————
with 20 kW, 30,000 rpm - - - - - - -
with 34 kW, 24,000 rpm — — —

Spindle also available with other performance characteristics



MATERIAL

Plastics	Blockmaterials for modelling	Composite materials (CFRP/GRP)	Aluminium	Cast Iron	Steel
⊕	⊕	⊕	⊕	⊖	⊖