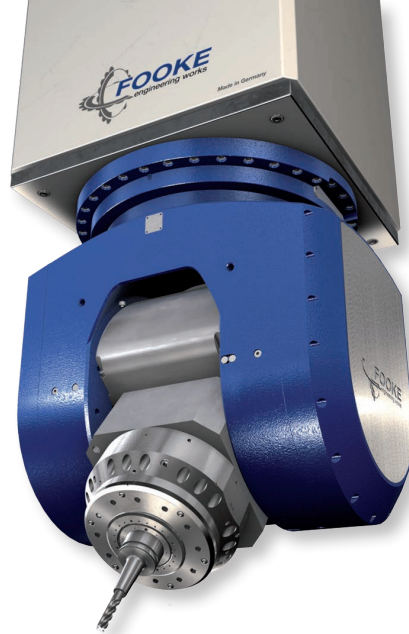


TORQUE MOTORS
IN C- AND A-AXIS



DIRECT MEASURING
SYSTEMS IN C- AND
A-AXIS

MILLING HEAD 12

C-axis

(Milling head rotary axis)

Pivoting angle: 550° (+/-275°)
 Pivoting torque: 2,500 Nm
 Clamping torque: 5,500 Nm
 Revolution: 360°/sec
 Axis acceleration: 1200°/sec²
 Position accuracy: 15" (0.0041°)
 Position deviation: 10" (0.0027°)

A-axis

(Spindle pivoting axis)

Pivoting angle: 220° (+/-110°)
 Pivoting torque: 1,100 Nm
 Clamping torque: 6,900 Nm
 Revolution: 360°/sec
 Axis acceleration: 1200°/sec²
 Position accuracy: 15" (0.0041°)
 Position deviation: 10" (0.0027°)

High-frequency milling spindle 1

Tool holding fixture: HSK100 A
 max. power: 50 kW
 max. rpm: 10,000 rpm
 max. torque: 400 Nm

High-frequency milling spindle 2

Tool holding fixture: HSK100 A
 max. power: 60 kW
 max. rpm: 15,000 rpm
 max. torque: 300 Nm

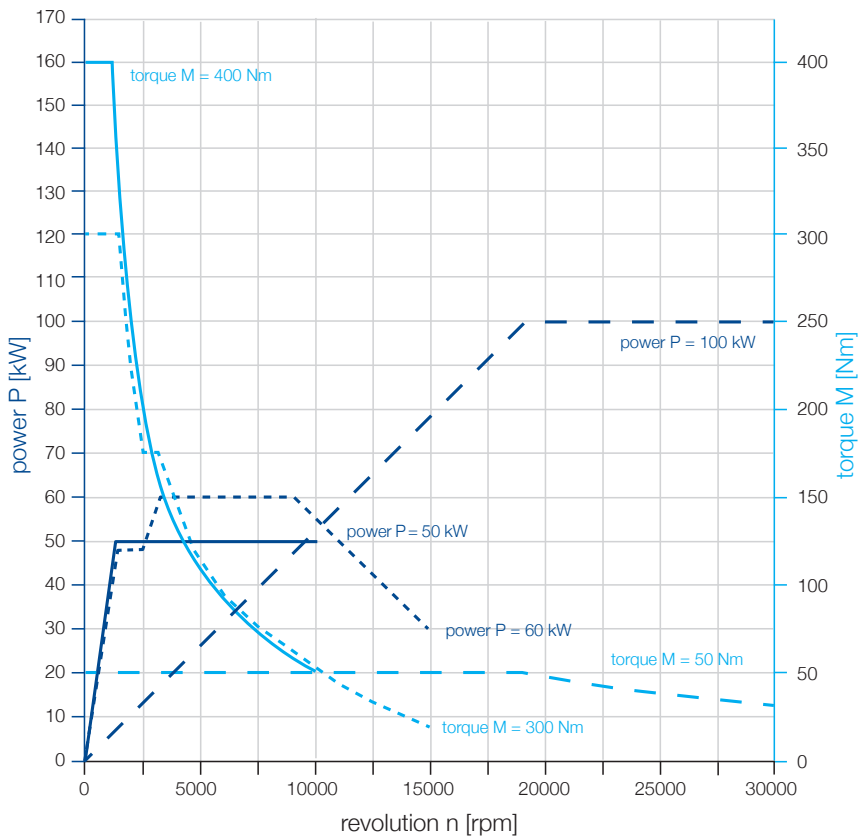
High-frequency milling spindle 3

Tool holding fixture: HSK63 A
 max. power: 100 kW
 max. rpm: 30,000 rpm
 max. torque: 50 Nm

Milling head 12

High-frequency milling spindle HSK100A
 with 50 kW, 10,000 rpm ———
 with 60 kW, 15,000 rpm - - - - -

High-frequency milling spindle HSK63A
 with 100 kW, 30,000 rpm - - - - -



Spindle also available with other performance characteristics

MATERIAL

Plastics	Blockmaterials for modelling	Composite materials (CFRP/GRP)	Aluminium	Cast Iron	Steel
-	-	-	+	+	+