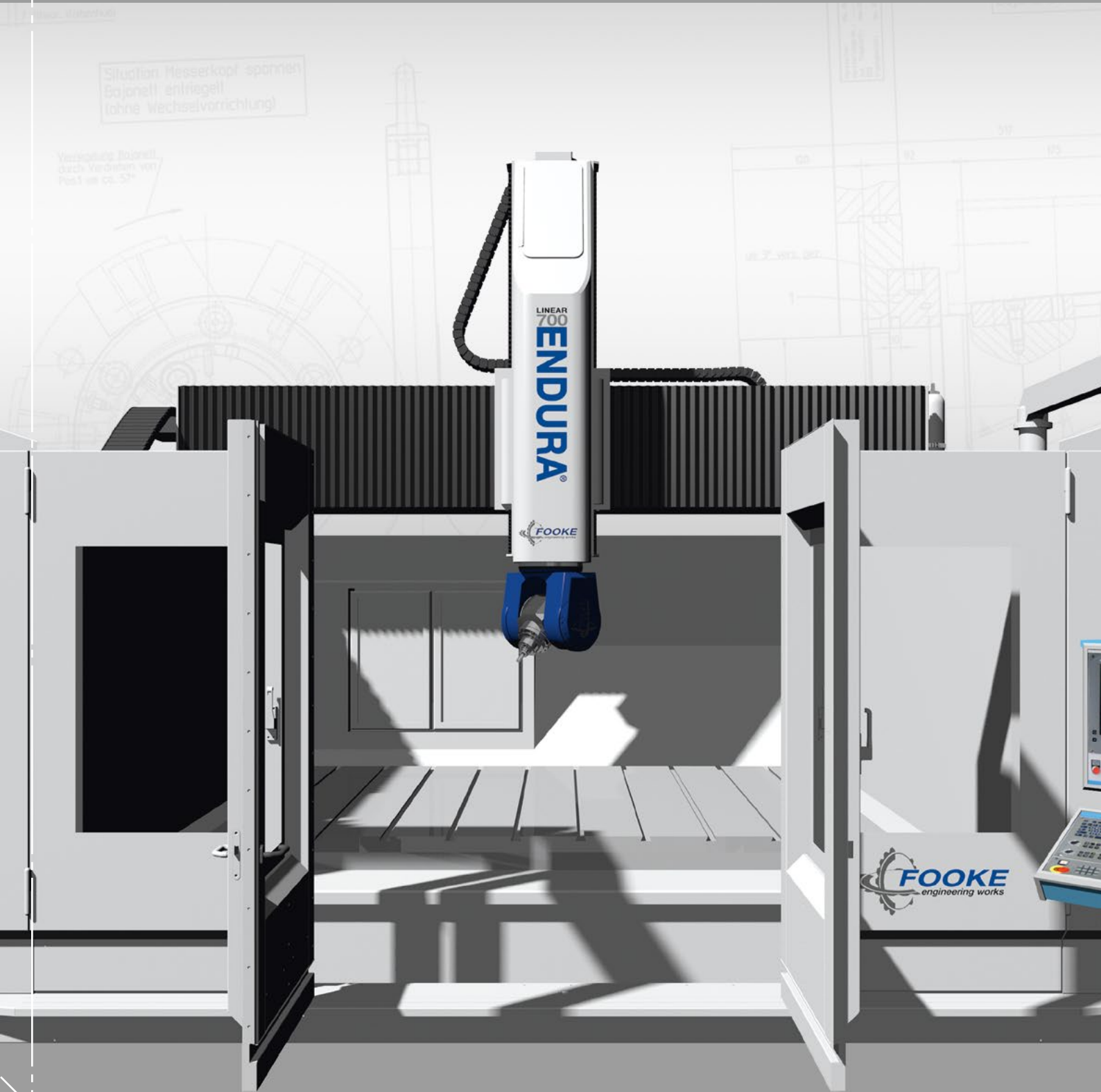


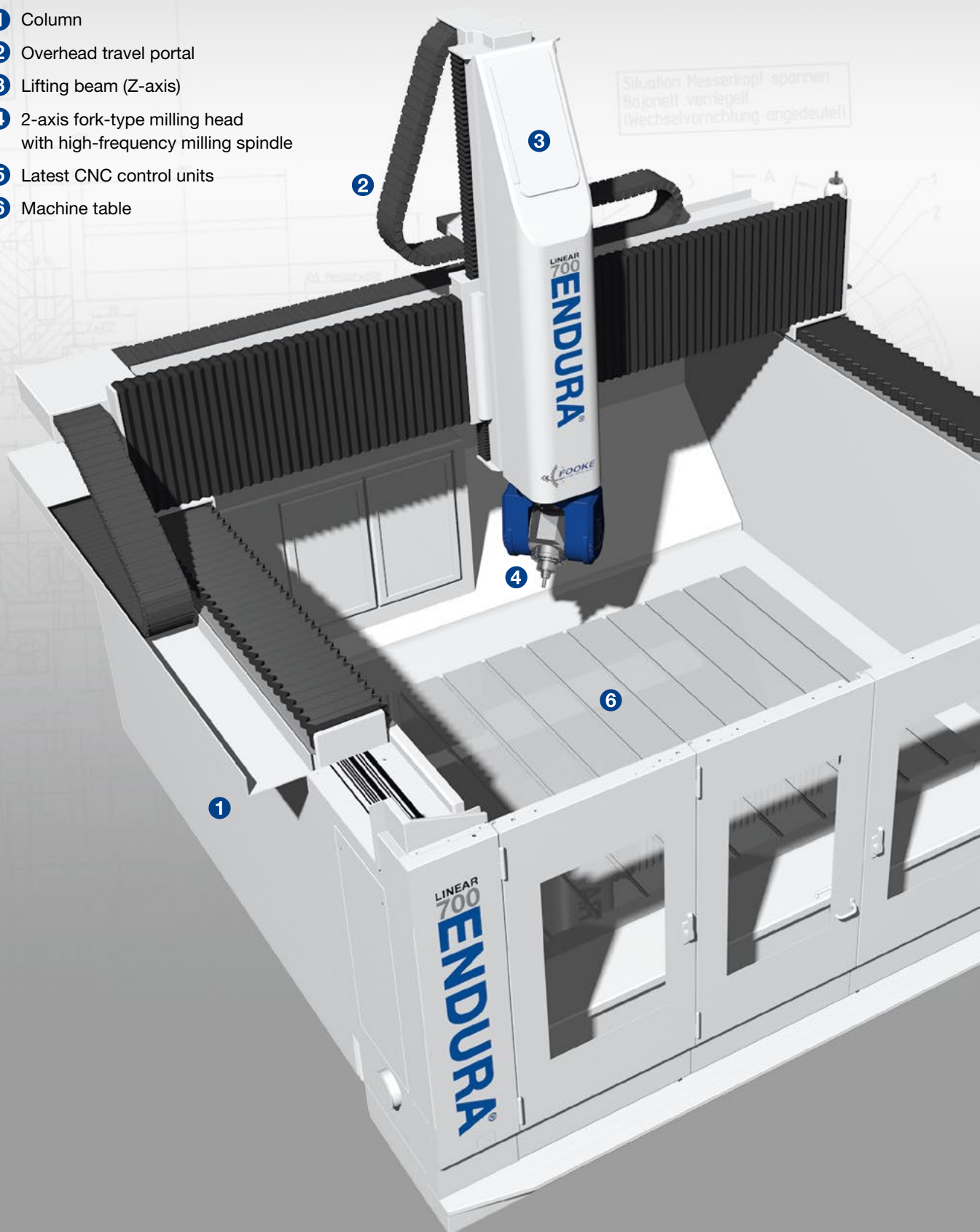
FOOKE Compact Gantry Milling Machine

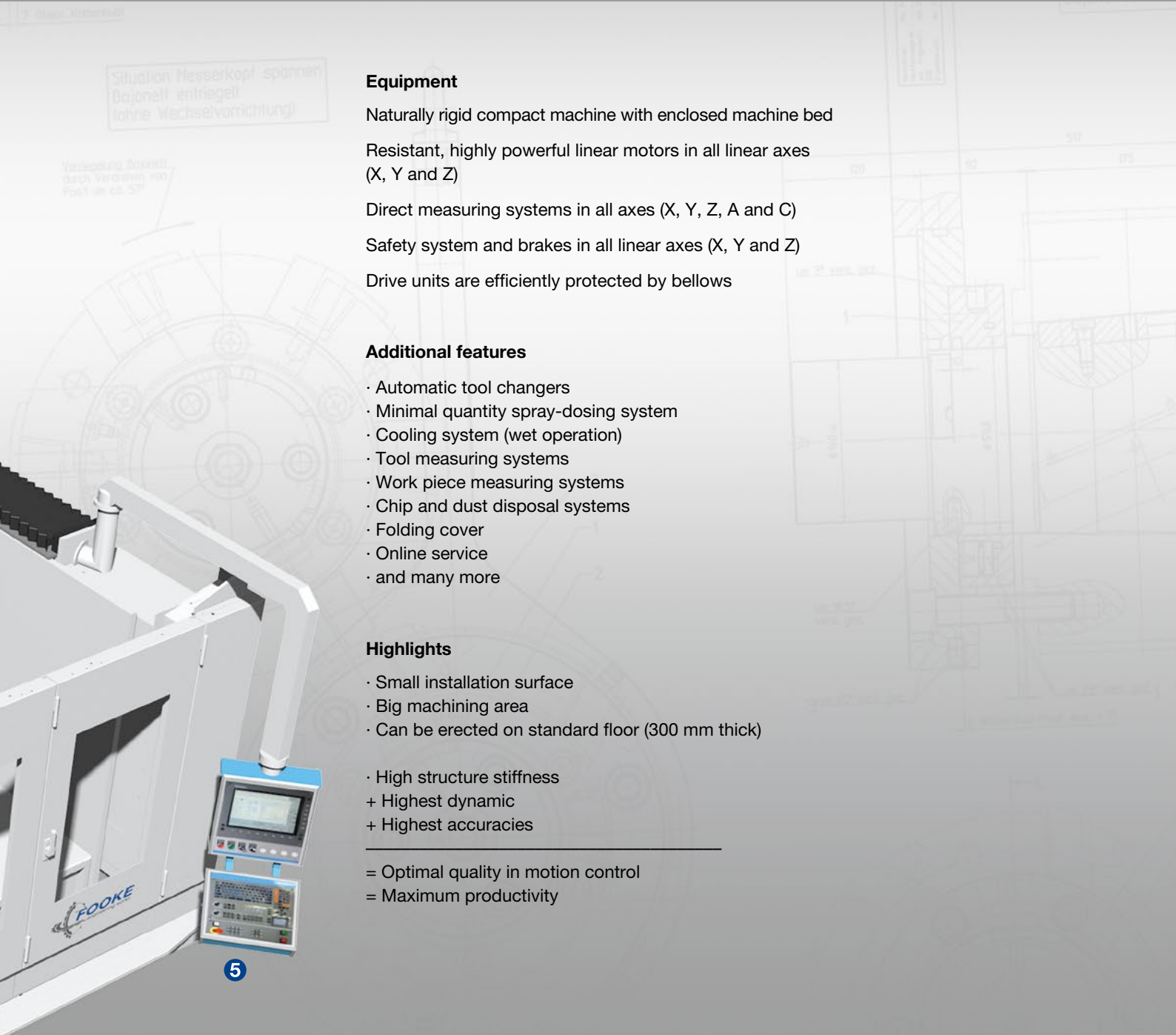
ENDURA® 700LINEAR



ENDURA® 700LINEAR

- 1 Column
- 2 Overhead travel portal
- 3 Lifting beam (Z-axis)
- 4 2-axis fork-type milling head with high-frequency milling spindle
- 5 Latest CNC control units
- 6 Machine table





Equipment

Naturally rigid compact machine with enclosed machine bed

Resistant, highly powerful linear motors in all linear axes (X, Y and Z)

Direct measuring systems in all axes (X, Y, Z, A and C)

Safety system and brakes in all linear axes (X, Y and Z)

Drive units are efficiently protected by bellows

Additional features

- Automatic tool changers
- Minimal quantity spray-dosing system
- Cooling system (wet operation)
- Tool measuring systems
- Work piece measuring systems
- Chip and dust disposal systems
- Folding cover
- Online service
- and many more

Highlights

- Small installation surface
- Big machining area
- Can be erected on standard floor (300 mm thick)

- High structure stiffness
- + Highest dynamic
- + Highest accuracies

= Optimal quality in motion control

= Maximum productivity

Traverse paths

X-axis:	2,200/5,690 mm
Y-axis:	2,800/3,500 mm
Z-axis:	1,200/1,500 mm

Feed rates

X-axis:	5 - 65,000 mm/min
Y-axis:	5 - 65,000 mm/min
Z-axis:	5 - 65,000 mm/min

Acceleration

up to 3.5 m/sec²

ENDURA® 704LINEAR

A-axis (spindle swivelling axis)

Pivoting angle: 220° (+/-110°)

C-axis (milling head rotary axis)

Pivoting angle: 550° (+/-275°)

Pivoting torque: 500 Nm

Holding force: 3,000 Nm

RPM: 360°/sec

Position accuracy: 0.0045°

Repeatability: 0.0020°

High-frequency milling spindle 1

Tool holding fixture: HSK63 A

max. power: 39 kW

max. RPM: 24,000 rpm

max. torque: 32 Nm

High-frequency milling spindle 2

Tool holding fixture: HSK63 A

max. power: 42 kW

max. RPM: 24,000 rpm

max. torque: 67 Nm

High-frequency milling spindle 3

Tool holding fixture: HSK63 A

max. power: 45 kW

max. RPM: 30,000 rpm

max. torque: 32 Nm

High-frequency milling spindle 4

Tool holding fixture: HSK63 A

max. power: 25 kW

max. RPM: 20,000 rpm

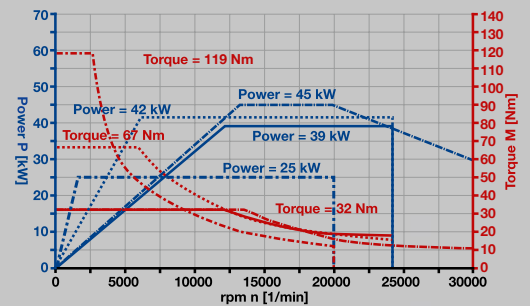
max. torque: 119 Nm

With torque motor drives in A- and C-axis

	Roughing	Finishing	Trimming
Synthetic material	●	●	
Ureol	●	●	
Aluminium	●	●	
Cast iron	●	●	
Steel	●	●	
Composite materials (CFRP/GRP)			●



Milling head 04
High-frequency milling spindle HSK63A with 39 kW, 24,000 rpm
or with 42 kW, 24,000 rpm
or with 45 kW, 30,000 rpm
or with 25 kW, 20,000 rpm



Milling spindles with different performance characteristics are possible!

ENDURA® 705LINEAR

A-axis (spindle swivelling axis)

Pivoting angle: 220° (+/-110°)

C-axis (milling head rotary axis)

Pivoting angle: 550° (+/-275°)

Pivoting torque: 800 Nm

Holding force: 2,000 Nm

RPM: 90°/sec

Position accuracy: 0.0045°

Repeatability: 0.0020°

High-frequency milling spindle 1

Tool holding fixture: HSK63 A

max. power: 25 kW

max. RPM: 20,000 rpm

max. torque: 119 Nm

High-frequency milling spindle 2

Tool holding fixture: HSK63 A

max. power: 39 kW

max. RPM: 24,000 rpm

max. torque: 32 Nm

High-frequency milling spindle 3

Tool holding fixture: HSK63 A

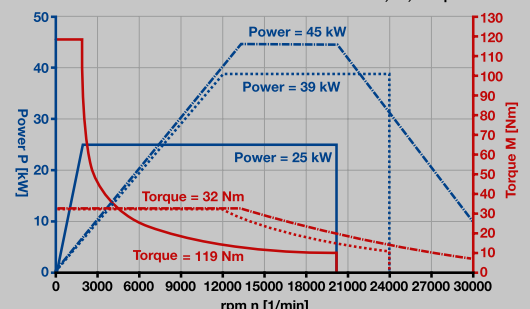
max. power: 45 kW

max. RPM: 30,000 rpm

max. torque: 32 Nm



Milling head 05
High-frequency milling spindle HSK63A with 25 kW, 20,000 rpm
or with 39 kW, 24,000 rpm
or with 45 kW, 30,000 rpm



Milling spindles with different performance characteristics are possible!

	Roughing	Finishing
Synthetic material	●	●
Ureol	●	●
Aluminium	●	●
Cast iron	●	●
Steel	●	●

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A-axis (spindle swivelling axis)

Pivoting angle: 220° (+/-110°)

C-axis (milling head rotary axis)

Pivoting angle: 550° (+/-275°)

Pivoting torque: 170 Nm

Holding force: 750 Nm

RPM: 300°/sec

Position accuracy: 0.0045°

Repeatability: 0.0020°

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

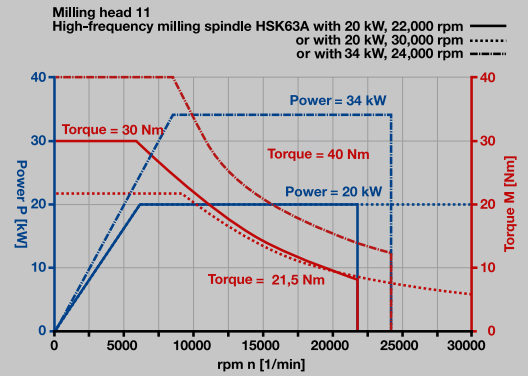
max. power: 34 kW

max. RPM: 24,000 rpm

max. torque: 40 Nm

With torque motor drives in A- and C-axis

	Roughing	Finishing	Trimming
Synthetic material	●	●	
Ureol	●	●	
Aluminium	●	●	
Composite materials (CFRP/GRP)			●



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714LINEAR



A-axis (spindle swivelling axis)

Pivoting angle: 200° (+/-100°)

C-axis (milling head rotary axis)

Pivoting angle: 550° (+/-275°)

Pivoting torque: 1,000 Nm

Holding force: 2,000 Nm

RPM: 60°/sec

Position accuracy: 0.0045°

Repeatability: 0.0020°

High-frequency milling spindle

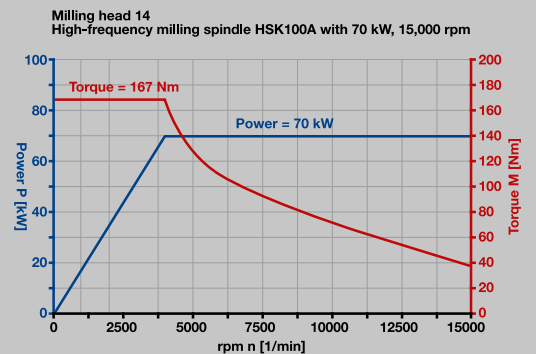
Tool holding fixture: HSK100 A

max. power: 70 kW

max. RPM: 15,000 rpm

max. torque: 167 Nm

	Roughing	Finishing
Aluminium	●	●
Cast iron	●	●
Steel	●	●

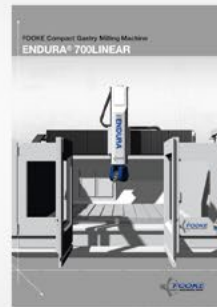


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Travelling Column Milling Machine **ENDURA® 1000LINEAR**



Lateral Milling Machine **ENDURA® 1100LINEAR**

