



TRAVELLING COLUMN

ENDURA® 1000LINEAR

TRAVELLING GANTRY
MACHINE



SPECIALIST FOR LARGE-VOLUME
WORKPIECES

TRAVELLING COLUMN ENDURA® 1000LINEAR

TECHNICAL DATA

Traverse paths

X-axis:	5,000 - 60,000 mm
Y-axis:	2,000 - 5,000 mm
Z-axis:	800 - 2,000 mm

Feed rate

X-axis:	5 - 55,000 mm/min
Y-axis:	5 - 65,000 mm/min
Z-axis:	5 - 65,000 mm/min

Acceleration

up to 5.0 m/sec²

Position accuracy

in X (P_a)	0.080 mm
in Y (P_a)	0.030 mm
in Z (P_a)	0.025 mm

Position deviation

in X (P_s)	0.040 mm
in Y (P_s)	0.015 mm
in Z (P_s)	0.010 mm

HIGHLIGHTS

- For large-volume workpieces
- Ergonomic loading
- Travelling operator cabin for optimal process monitoring

Equipment

- Modular and extremely rigid machine with an intelligent hybrid design (steel, welded, cast iron and mineral casting components).
- Resistant, highly powerful linear motor
- Direct measuring systems in all axes (X, Y, Z, C and A).
- Safety system and brakes in all linear axes.
- Linear guiding devices and drive motors are efficiently protected by bellows.

Additional equipment

- Automatic tool changer
- Cooling system (wet operation)
- Tool measuring system
- Workpiece measuring system
- Chips and dust disposal systems
- Workpiece clamping systems
- Sound insulation enclosure
- Online Service
- and much more



HIGH PRECISION WORM GEAR
UNITS IN C- AND A-AXIS

DIRECT MEASURING
SYSTEMS IN C- AND
A-AXIS

MILLING HEAD 6

C-axis

(Milling head rotary axis)

Pivoting angle: 550° (+/-275°)
Pivoting torque: 1,500 Nm
Clamping torque: 6,000 Nm
Revolution: 70°/sec
Axis acceleration: 800°/sec²
Position accuracy: 15" (0.0041°)
Position deviation: 10" (0.0027°)

A-axis

(Spindle pivoting axis)

Pivoting angle: 220°(+125°/-95°)
Pivoting torque: 1,500 Nm
Clamping torque: 6,000 Nm
Revolution: 70°/sec
Axis acceleration: 800°/sec²
Position accuracy: 15" (0.0041°)
Position deviation: 10" (0.0027°)

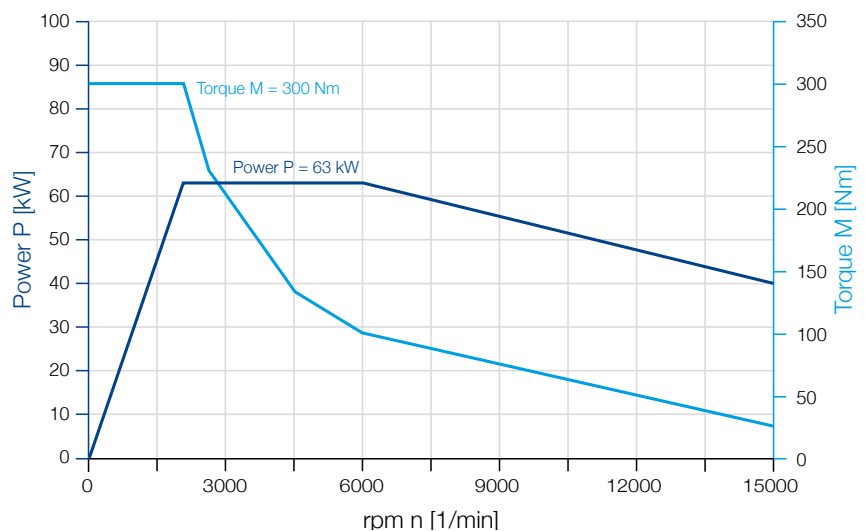
High-frequency milling spindle 1

Tool holding fixture: HSK100 A
max. power: 63 kW
max. rpm: 15,000 rpm
max. torque: 300 Nm

Milling head 6

High-frequency milling spindle
HSK100 A

with 63 kW, 15,000 rpm



MATERIAL

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



www.fooke.de