Horizontal Machining Center

GEORG ultraturn MC
Technical Data

Turning diameter  
1,000 – 4,000 mm

Center length max. 
25,000 mm

Workpiece weight 
10 t – 250 t

Torque milling spindle 
max. 7,000 Nm

Power milling spindle 
max. 94 kW

Speed milling spindle max. 
7,000 min⁻¹

More Profit

› machining and measuring in one set-up
› reduced set-up, storage and transport times
› no limitation in workpiece dimension
› reduced storage costs
› fast reaction times on market changes

› less investment costs for buildings and infrastructure
› reduced efforts in workpiece handling
› reduced downtimes by connection to the GEORG protection world

More Quality

› increase of final product quality by exact measuring during the entire machining process
› rough- and finish machining possible thanks to hydrostatic design
› lower damage risks during transport and handling

Your Benefits

More Profit

- less investment costs for buildings and infrastructure
- reduced efforts in workpiece handling
- reduced downtimes by connection to the GEORG protection world

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The Concept

The horizontal machining center GEORG ultraturn MC represents a worldwide unique concept for integrated turning, drilling, milling, grinding and 2-point measuring of workpieces of medium and upper range class (up to 250 t). This step-ahead in machining ensures our customers the highest degree in productivity and efficiency and respective market advantages. The complete linking of sensor data via GEORG connected service offers the connection to GEORG protection world Life Cycle Quality Management and leads to a much better service performance.

Quick Facts

- workpiece weight: 10 – 250 t
- center length: up to 25,000 mm
- turning diameter: 1,000 – 4,000 mm
- integrated measuring systems
The Applications

- roll machining
- turbine shaft machining
- machining of generator rotors
- machining of large forgings
- crankshaft machining
- general machining of large parts from 10 t up to 250 t

The Features

- measuring and machining without reclamping on one machine
- machining unit with integrated RAM with box-in-box design
- GEORG ultrahead interface with automatic change of attachments
- automatic tool change with robotic system
- CNC-controlled 2-point measuring system
- highest life-time accuracy by hydrostatic guidance
- complete machine enclosure with integrated coolant mist exhaust