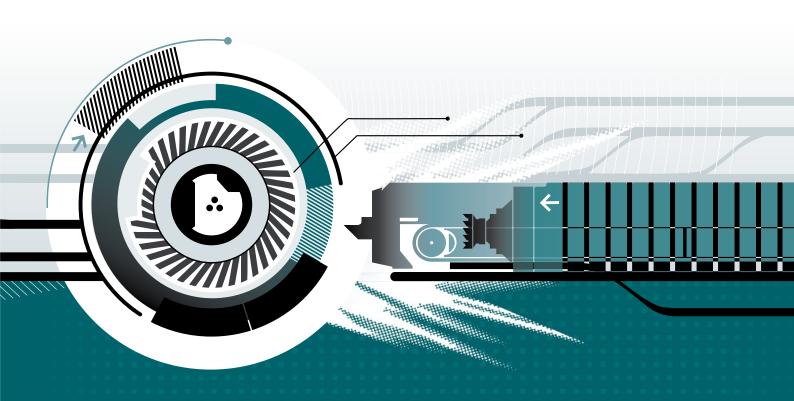


PROFITURN M

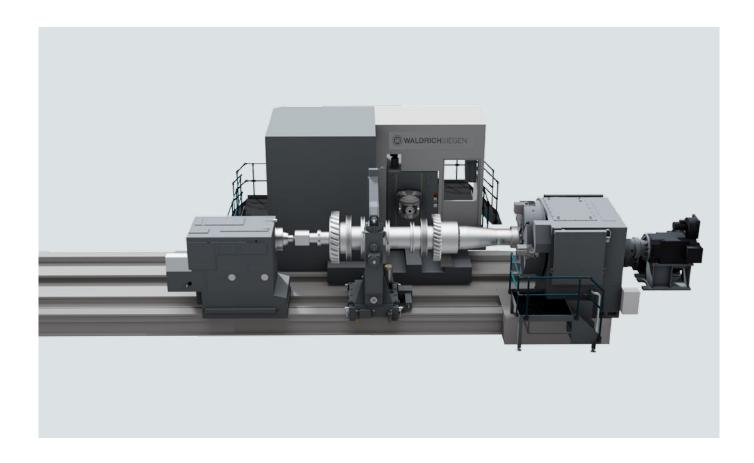


Product Information: ProfiTurn M



ProfiTurn M - Mill-Turning Machine

The ProfiTurn M by WaldrichSiegen is the ideal solution for the complete machining of large and complex workpieces, such as turbine and generator rotors or large forged parts, on a single machine. A broad range of machining units for turning, milling, boring and grinding can be mounted on the Masterhead interface of the traversing column. The highlights of the machine: its robust box-in-box design and hydrostatic guideways. Automatic tool and unit changers further increase the machine's efficiency.



Areas of Application (Industries)

- Heavy-duty machine manufacturing
- Energy technology (turbines and generators)
- Manufacturing of large gearboxes (pinion shafts)
- Manufacturing of crankshafts
- Contract manufacturing

- Aerospace industry
- Military industry
- Forgeries
- Roll manufacturing
- Wind energy



Technical Data

Hydrostatic horizontal mill-turning machine in single or two-bed design.

Dimensions

Workpiece diameter	1 - 4.2 m
Distance between centers, max.	25 m
Workpiece weight, max.	250 t

Headstock with Master / Slave Drive

Faceplate diameter	1.1 to 2.5 m	
Power, max.	180 kW	310 kW
Torque, max.	75 kNm	120 kNm
Speed, max.	400 min ⁻¹	210 min ⁻¹

Milling tower with permanently integrated milling spindle or extendable ram

Milling power, max.	63 kW	80 kW
Torque, max.	5,000 Nm	7,000 Nm
Speed, max.	4,000 min ⁻¹	4,000 min ⁻¹
C-axis	± 190°	± 190°

Optional turning tool slide at the milling tower

Cutting force	150 kN
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Highlights

- Extremely stiff box-in-box design of the milling tower (gantry column design)
- Hydrostatic guideways for carriage and bed
- Iron-cast structural components
- Headstock with Master/Slave drive
- Powerful main milling spindle
- High level of process integration (turning, milling, grinding and boring)
- Tailstock for mounting the workpiece between centers
- Comprehensive equipment
 - roller steady rests
 - C-steady rests
 - hydrostatic steady rests
 - measuring of the tool and the workpiece
 - a diverse range of spindle units to integrate all necessary technologies (turning, milling, grinding and boring)
 - Tool changer
 - Coolant system, minimum quantity lubrication
 - Internal and external coolant supply
 - etc.
- Full room enclosure
- Operator and maintenance-friendly machine concept
- Energy-efficient design