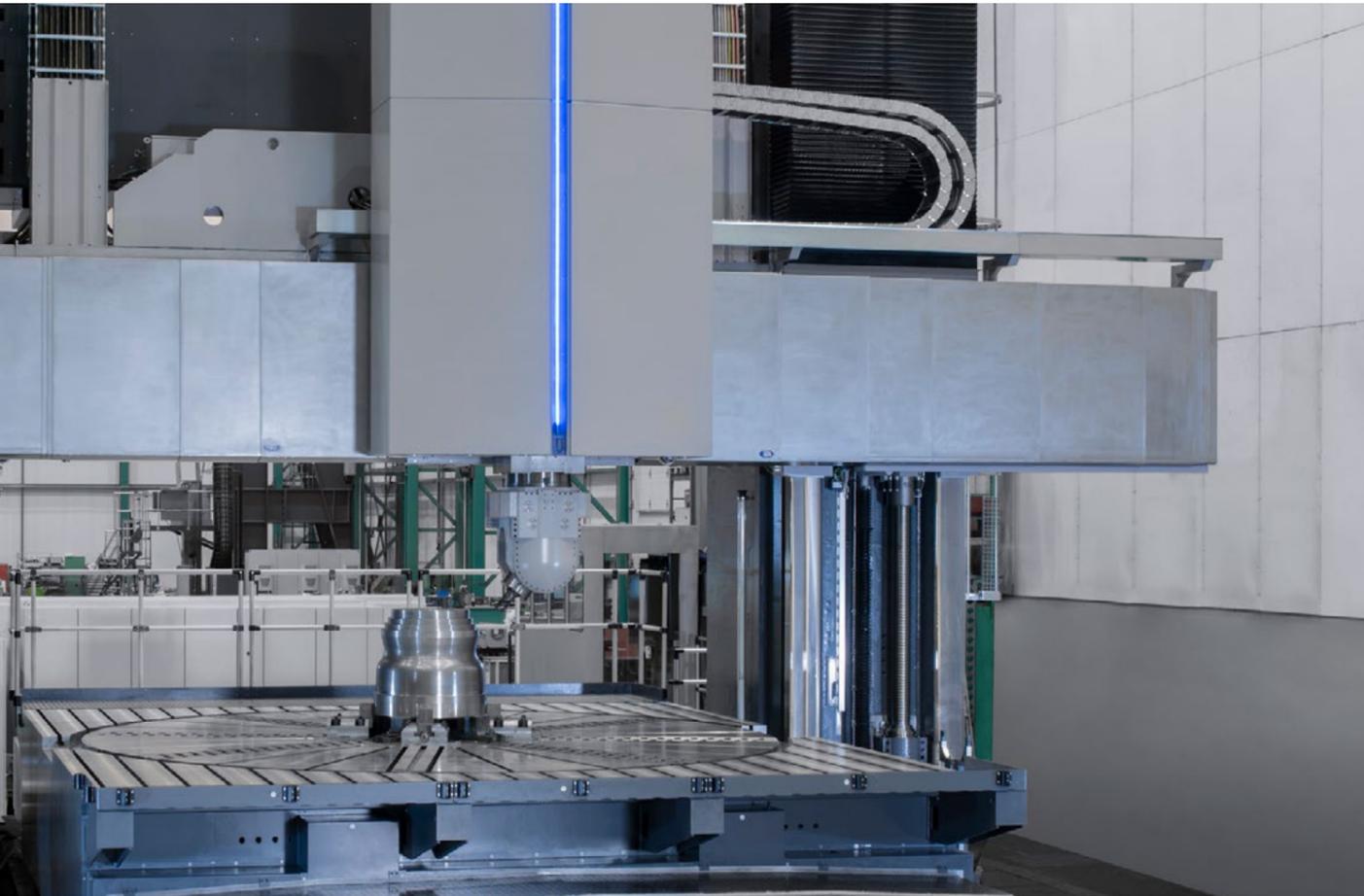




 **PROFITURN V**

Vertical Lathe

In Table and Gantry Design



Sophisticated Technology for Precision and Efficiency

Your Advantages at a Glance

- High-performance turning and milling unit with a Masterhead interface
- Fully hydrostatic guidance of all main axes for the highest cutting performance
- Main structural components made of highperformance cast iron for the best damping characteristics and high stiffness
- Optimal static and dynamic machine behavior in the entire work area
- Modular design system for optimal adaptation to customer requirements
- Highest availability with reduced maintenance and repair costs
- Integration of a broad range of manufacturing methods for the machining of demanding workpieces
- Comprehensive equipment

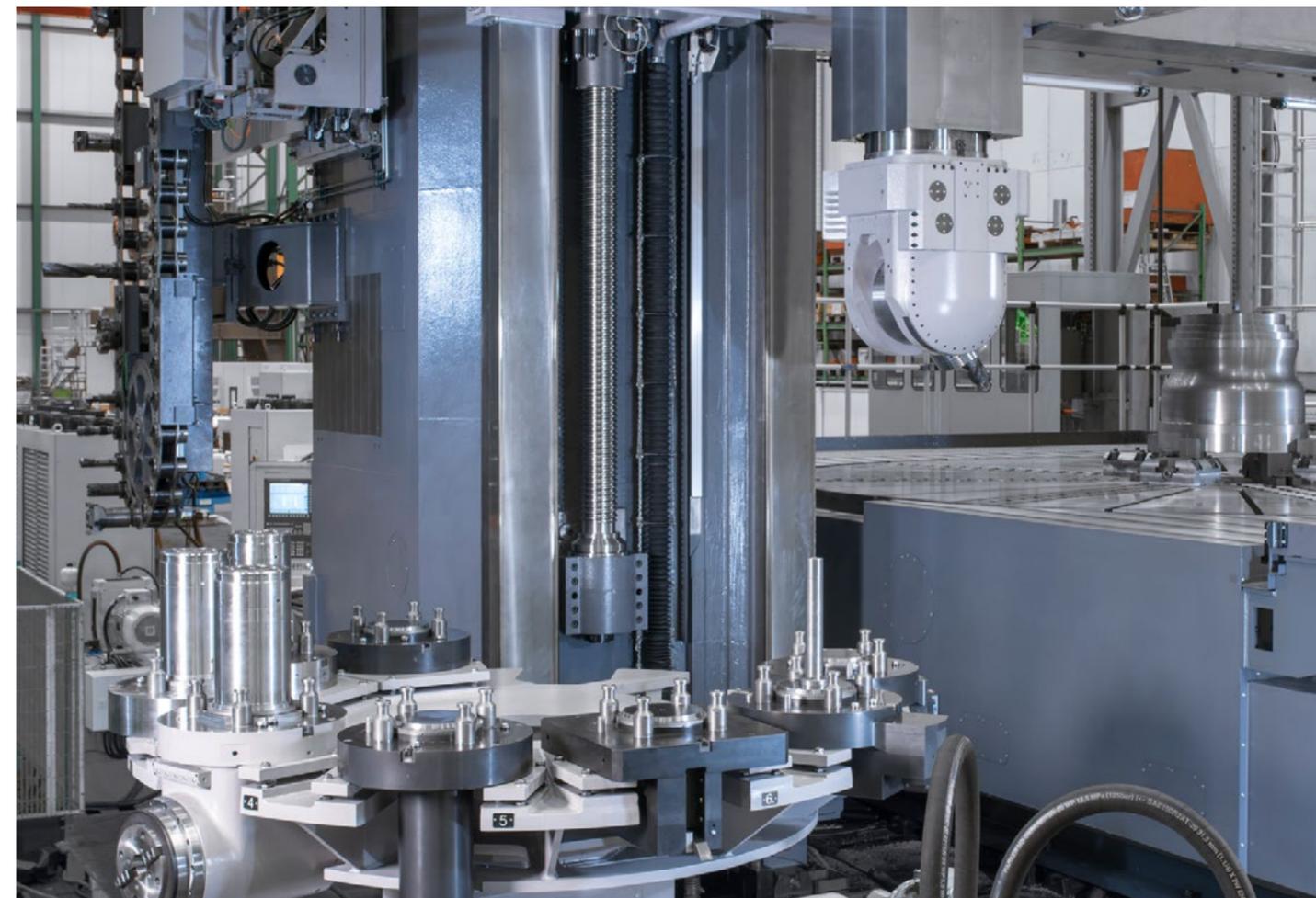
Customized for Your Workpieces

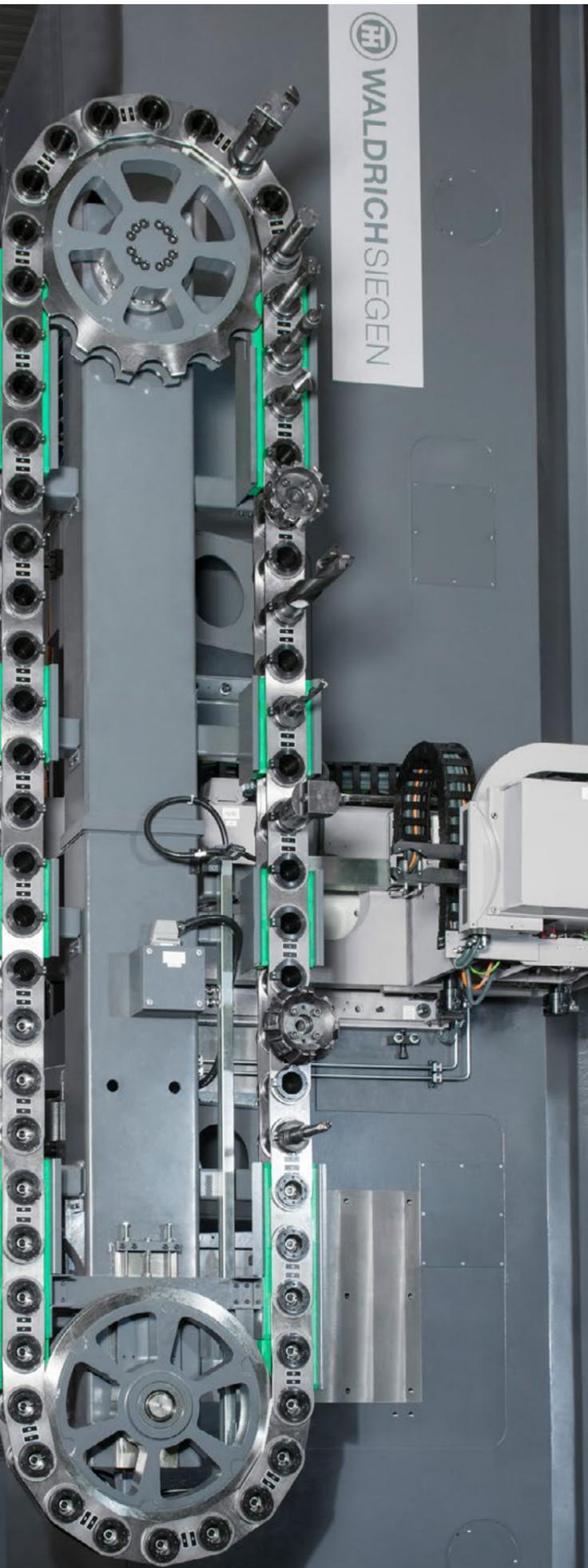
WaldrichSiegen has developed and manufactured vertical lathes for the highest technological demands since the 1930s. The ProfiTurn V series sets a new benchmark in the market in terms of power and precision.

Thanks to its robust design and hydrostatic guideways, the concept allows for pre-machining and finish-machining on a single machine. A clear, modular machine program covers the complete range of standard models for a variety of applications. We offer the perfect solution for any task.

Fully Hydrostatic Vertical Lathe:

- In table or gantry design
- With a fixed or movable rotary table
- With one or two carriages
- Machining diameter of up to 14,000 mm
- Machining height of up to 14,000 mm
- Workpiece weight of up to 500 t
- Power at the faceplate of up to 350 kW





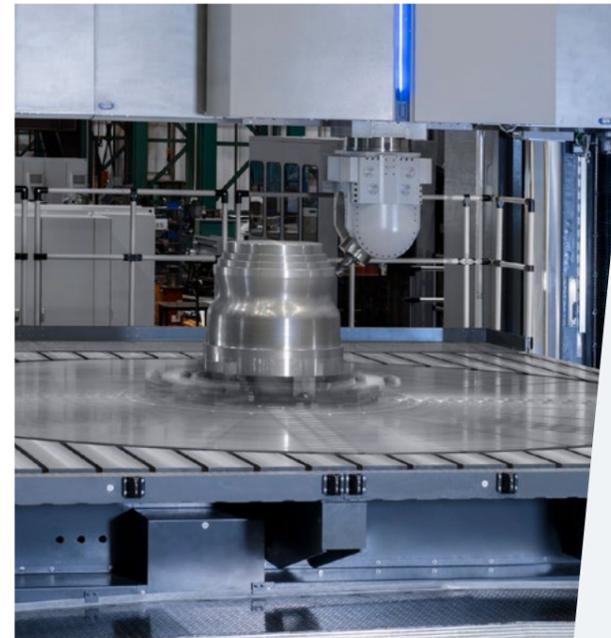
Equipment and Options

Thanks to a broad range of equipment and options, the capability and productivity can be expanded even further:

- Large number of machining units (turning, milling, boring and grinding)
- Automatic change of the machining units
- Automatic tool changer in different designs: pick-up changer, wheel changer, chain changer, rack changer or tool arena with a robot
- Workpiece measuring with a switching probe
- Tool measuring / tool breakage monitoring
- Automatic tool management with the WaldrichSiegen Tool Management System
- Camera system for cutting process control
- Housing / coolant fume extraction
- Traversing operating platform
- Prepared for "Industry 4.0"
- Special solutions available on request.

Hydrostatic Guidance in all Axes

- Highest static and dynamic stiffness
- Optimal damping behavior
- Close to unlimited service life of the guidance rails



Rotary Table

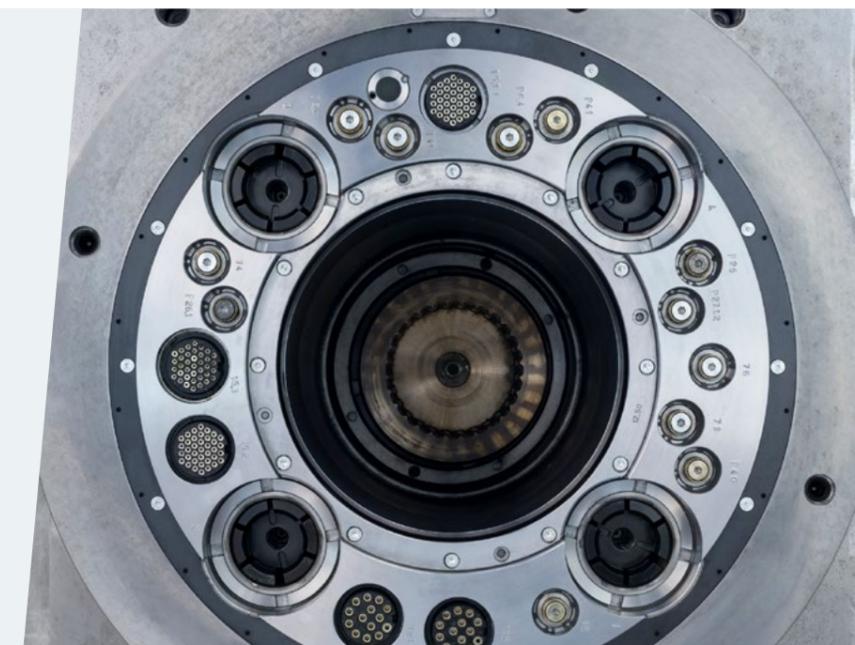
Made of high-quality cast iron with hydrostatic faceplate bearing, driven via a backlash-free Master/Slave drive.

- Workpiece weights up to 500 t
- Outstanding static and dynamic characteristics
- High drive torque for optimal cutting performance
- High positioning accuracy during milling operations
- Option: available as traversing rotary table

Masterhead Interface at the RAM

Only the drive shaft is located in the RAM. All bearings and spindles are located in the machining units.

- High stiffness of the interface
- Long service life and high availability
- A single interface for all machining units (turning, milling, boring and grinding)





Technical Data

Thanks to advanced technology, WaldrichSiegen creates the conditions for realizing even heavy-duty machining on large machine tools with virtually friction-free guideways and unlimited service life. Individual adaptations to your requirements can be made at any time.

Designs

- Fixed rotary table
- Traversing rotary table (Y-axis)
- Portal in gantry design

Dimensions

Machining diameter*	3.0 - 14 m
Machining height*	2 - 14 m
Workpiece weight	up to 500 t

Rotary Table

Faceplate diameter*	2 - 12 m
Drive power	100 - 350 kW
Torque	60 - 560 kNm
Speed	0.5 - 280 min ⁻¹

(* in 500 mm steps)

Turning and Milling Units

	300 mm	350 mm	400 mm	450 mm	550 mm	600 mm
Power						
Torque (Nm)	up to 38 kW	up to 68 kW	up to 68 kW	up to 80 kW	up to 103 kW	up to 140 kW
Speed	up to 1,575	up to 2,500	up to 2,500	up to 2,750	up to 7,500	up to 11,000
C-axis	3,000 min ⁻¹	6,000 min ⁻¹	6,000 min ⁻¹	6,000 min ⁻¹	4,000 min ⁻¹	2,500 min ⁻¹
RAM traverse	+/- 190 indexed, continuous (ram ≥ 400 mm)					
Slide travel	< 1.25 - 4 m					



**Elevating
Engineering
Excellence**