MADE IN ITALY



OMICRON T7

Semi-automatic Universal Cylindrical Grinding Machines

ROBBI

Make your world go round

OMICRON T7

Semi-automatic Universal Cylindrical Grinding Machines



EASY OPERATION FOR DAILY GRINDING TASKS

Our semi-automatic grinding machines combine the reliability of CNC technology with the simplicity of a custom-developed, user-friendly interface.
Equipped with the latest-generation SIEMENS SINUMERIK ONE control and our proprietary operator interface, they are optimized for the most common grinding operations, ensuring fast setup and easy operation. Ideal for everyday production needs, they deliver consistent precision and high-quality surface finishes while keeping training requirements and maintenance to a minimum.
High-performance brushless motors and a hydrodynamic spindle further enhance rigidity, accuracy, and long-term reliability.

Preconfigured grinding cycles for daily operations

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Intuitive graphical programming and process control

Programming and process control are simple thanks to a graphical icon-based interface, requiring no CNC programming knowledge. All machines are equipped with Siemens touch screen TP900 (optionally TP1200 as available on request). All grinding parameters remain fully visible to the operator throughout the process.
Taper corrections can be made digitally on-the-fly, while diameter adjustments can be applied globally across the entire workpiece or individually, diameter by diameter, ensuring precise and efficient results.

Versatile Wheel Dressing and Shoulder Grinding

Automatic wheel dressing cycles can be programmed to run independently, at set intervals, or on demand during grinding.
Front, corner and side of the grinding wheel can be dressed with easy parameters setting. Shoulder grinding is supported in manual, automatic, and gap-control modes—allowing precise, repeatable results with minimal cycle times.

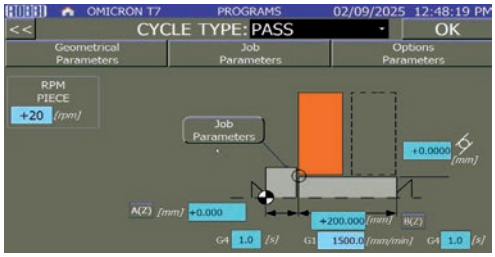
Reliable Performance Backed by Robust Technology

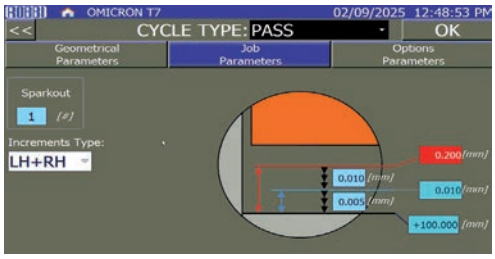
The machine's drive system precisely controls spindle and axis speeds to follow complex trajectories with accuracy. Brushless AC servomotors combined with digital drives deliver fast dynamic response and positioning accuracy for demanding grinding operations. This balanced combination of advanced hardware, flexible software, and connectivity solutions delivers high precision, productivity, and operational simplicity—ideal for companies aiming to improve efficiency in a competitive market.
Secure remote access, based on encrypted TLS connections, facilitates efficient support and predictive maintenance without interrupting production.

STANDARD PROGRAMS		
	Od	ID
PASS	●	●
PLUNGE	●	●
FACING	●	●
MULTI PLUNGE	●	
ANGULAR PLUNGE	●	●









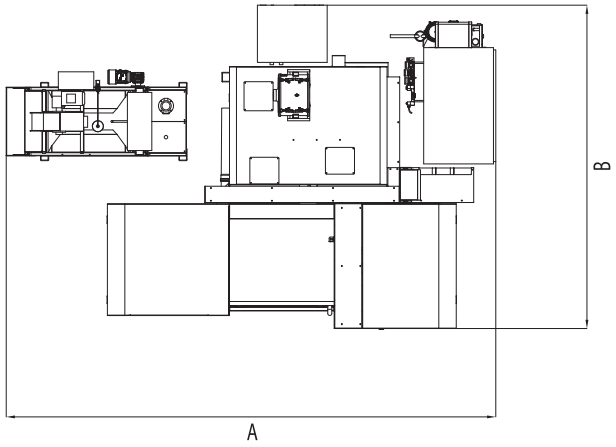
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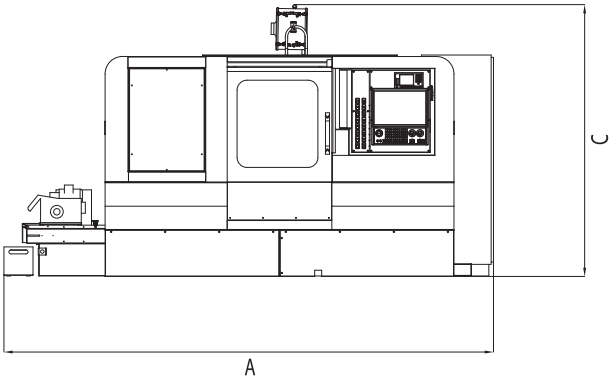
Distance between centers
600 - 1000 mm

Height of centers over table
160 mm

Weight on centers
max. 120 kg









	600	1000
WORKING CAPACITY		
Distance between centers	600 mm	1000 mm
Grinding length	600 mm	1000 mm
Height of centers over table	160 mm	
Swing over table	315 mm	
Weight on centers	120 kg	
Cantilever weight	40 kg	
TABLE (Z-AXIS)		
Automatic table traverse	770 mm	1200 mm
Swivel on either side	+9°	+8°
	-5°	-4°
Automatic traverse min.	3 mm	
Speed	1-5000 mm/min	
Handwheel division	0,001 / 0,01 / 0,1 mm	
WORKHEAD		
Rotation speed	0-600 rpm	
Spindle hole diameter	26 mm	
Internal center taper	4 MT	
External center taper	5 ASA	
Swivel	90°	
TAIL STOCK		
Spindle stroke	25 / 40 mm	
Spindle diameter	43 mm	
Internal center taper	4 MT	
WHEEL HEAD (X-AXIS)		
Swivel	+/- 180°	
Handwheel division	0,001 / 0,01 / 0,1 mm	
Manual position travel	130 mm	
Stroke	200 mm	
Speed	0,2-3000 mm/min	
Rotation speed (inverter)	600-1600 rpm	
GRINDING WHEEL SPECIFICATIONS		
Diameter	450 mm	
Hole	ø 127 mm	
Width	min. 20 mm	
	max. 50 mm	
WORKING FEEDS		
Minimum programmable feed	0,001 mm	
INTERNAL GRINDING ATTACHMENT		
Hole diameter for spindle	100 mm	
Electric motor	1,5 kW	
MOTORS		
Wheelhead	4,00 kW	
Workhead	0,80 kW	
Wheelhead feed (X axis)	6,00 Nm	
Table feed (Z axis)	6,00 Nm	
Hydraulic power pack	0,75 kW	
Coolant pump	0,18 kW	
DIMENSIONS		
Length (A)	4000 mm	4400 mm
Width (B)	3200 mm	3200 mm
Height (C)	2000 mm	2000 mm
Net weight	4300 kg	5000 kg

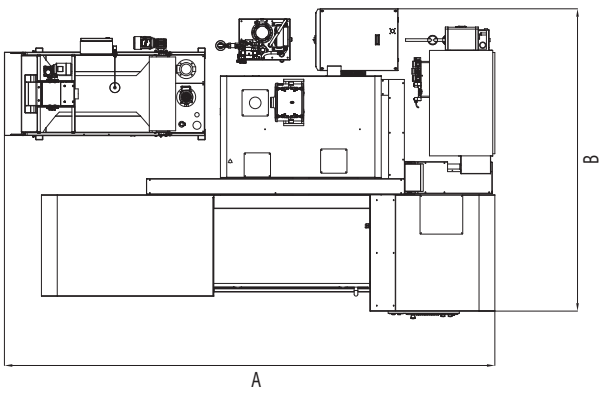
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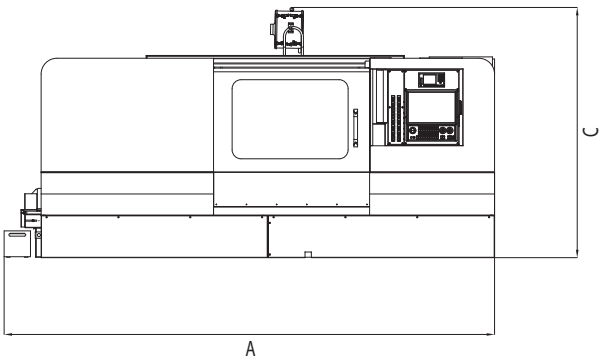
Distance between centers
600 - 3000 mm

Height of centers over table
180 / 230 mm

Weight on centers
max. 250 / 300 kg









	600	1000	1500	2000	3000
WORKING CAPACITY					
Distance between centers	600 mm	1000 mm	1500 mm	2000 mm	3000 mm
Grinding length	600 mm	1000 mm	1500 mm	2000 mm	3000 mm
Height of centers over table	180 / 230 mm				
Swing over table	355 / 455 mm				
Weight on centers	250 / 300 kg				
Cantilever weight	80 kg				
TABLE (Z-AXIS)					
Automatic table traverse	780 mm	1180 mm	1680 mm	2180 mm	3180 mm
Swivel on either side	+9°	+8°	+7°	+6°	+5°
	-5°	-4°	-3°	-2°	-1°
Automatic traverse min.	3 mm				
Speed	1-5000 mm/min				
Handwheel division	0,001 / 0,01 / 0,1 mm				
WORKHEAD					
Rotation speed	0-600 rpm				
Spindle hole diameter	31 mm				
Internal center taper	5 MT				
External center taper	5 ASA				
Swivel	90°				
TAIL STOCK					
Spindle stroke	35 / 70 mm				
Spindle diameter	48 / 70 mm				
Internal center taper	04-mag MT				
WHEEL HEAD (X-AXIS)					
Swivel	+/- 180°				
Handwheel division	0,001 / 0,01 / 0,1 mm				
Manual position travel	200 mm				
Stroke	380 mm				
Speed	0,2-3000 mm/min				
Rotation speed (inverter)	600-1600 rpm				
GRINDING WHEEL SPECIFICATIONS					
Diameter	450 / 500 mm				
Hole	ø 127 mm				
Width	min. 20 mm				
	max. 80 mm				
WORKING FEEDS					
Minimum programmable feed	0,001 mm				
INTERNAL GRINDING ATTACHMENT					
Hole diameter for spindle	100 mm				
Electric motor	1,5 kW				
MOTORS					
Wheelhead	5,50 / 7,50 kW				
Workhead	1,50 / 2,20 kW				
Wheelhead feed (X axis)	6,00 Nm				
Table feed (Z axis)	11,00 Nm				16,00 Nm
Hydraulic power pack	0,75 kW				
Coolant pump	0,18 kW				
DIMENSIONS					
Length (A)	4000 mm	4300 mm	5300 mm	6600 mm	9000 mm
Width (B)	3200 mm	3200 mm	3500 mm	3800 mm	3600 mm
Height (C)	1900 mm	1900 mm	1900 mm	2200 mm	2300 mm
Net weight	5500 kg	6000 kg	6500 kg	7700 kg	10000 kg

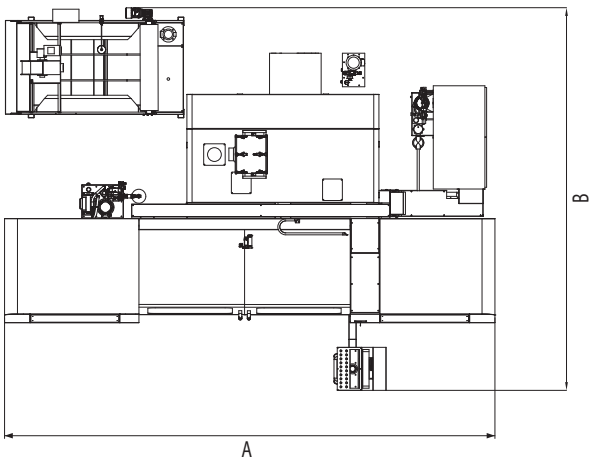
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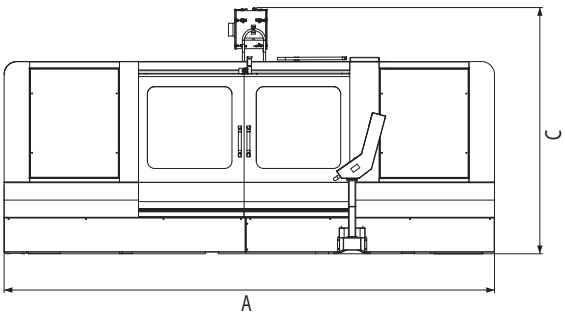
Distance between centers
1000 - 3000 mm

Height of centers over table
300 / 350 mm

Weight on centers
max. 1200 kg









	1000	1500	2000	3000
WORKING CAPACITY				
Distance between centers	1000 mm 1200 mm *	1500 mm 1700 mm *	2000 mm 2200 mm *	3000 mm 3200 mm *
Grinding length	1000 mm	1500 mm	2000 mm	3000 mm
Height of centers over table	300 / 350 mm			
Swing over table	595 / 695 mm			
Weight on centers	1200 kg			
Cantilever weight	120 kg			
TABLE (Z-AXIS)				
Automatic table traverse	1150 mm	1650 mm	2150 mm	3150 mm
Swivel on either side	+8°	+7°	+6°	+5°
	-4°	-3°	-2°	-1°
Automatic traverse min.	3 mm			
Speed	1-5000 mm/min			
Handwheel division	0,001 / 0,01 / 0,1 mm			
WORKHEAD				
Rotation speed	0-300 rpm			
Spindle hole diameter	44 mm			
Internal center taper	6 MT			
External center taper	8 ASA			
Swivel	90°			
TAIL STOCK				
Spindle stroke	70 mm			
Spindle diameter	90 mm			
Internal center taper	5 MT			
WHEEL HEAD (X-AXIS)				
Swivel	+/- 180°			
Handwheel division	0,001 / 0,01 / 0,1 mm			
Manual position travel	250 mm			
Stroke	max 480 mm			
Speed	max 0,2-3000			
Rotation speed (inverter)	600-1250 rpm			
GRINDING WHEEL SPECIFICATIONS				
Diameter	610 mm			
Hole	ø 230 / 305 mm			
Width	min. 50 mm			
	max. 120 mm			
WORKING FEEDS				
Minimum programmable feed	0,001 mm			
INTERNAL GRINDING ATTACHMENT				
Hole diameter for spindle	100 / 120 mm			
Electric motor	2,2 / 4,00 kW			
MOTORS				
Wheelhead	11,00 / 15,00 kW			
Workhead	6,30 kW			
Wheelhead feed (X axis)	6,00 Nm			
Table feed (Z axis)	11,00 Nm			
Hydraulic power pack	0,75 kW			
Coolant pump	0,18 kW			
DIMENSIONS				
Length (A)	6000 mm	6300 mm	7300 mm	9200 mm
Width (B)	3800 mm	3800 mm	3800 mm	3800 mm
Height (C)	2200 mm	2200 mm	2200 mm	2200 mm
Net weight	7000 kg	9000 kg	11000 kg	14000 kg

* Only available on fix table version Omicron GE

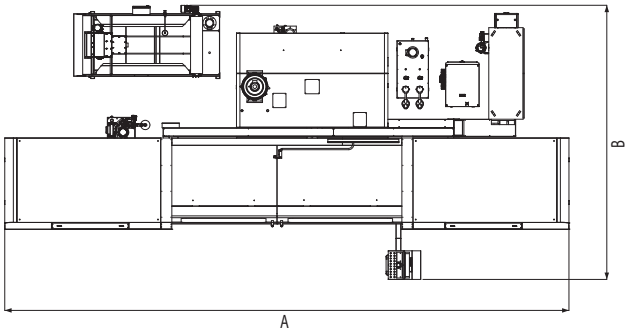
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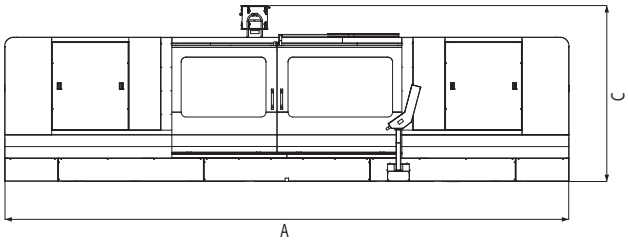
Distance between centers
2000 - 8000 mm

Height of centers over table
400 / 450 /500 mm

Weight on centers
max. 4000 kg

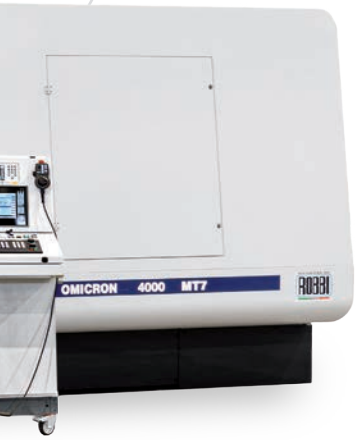






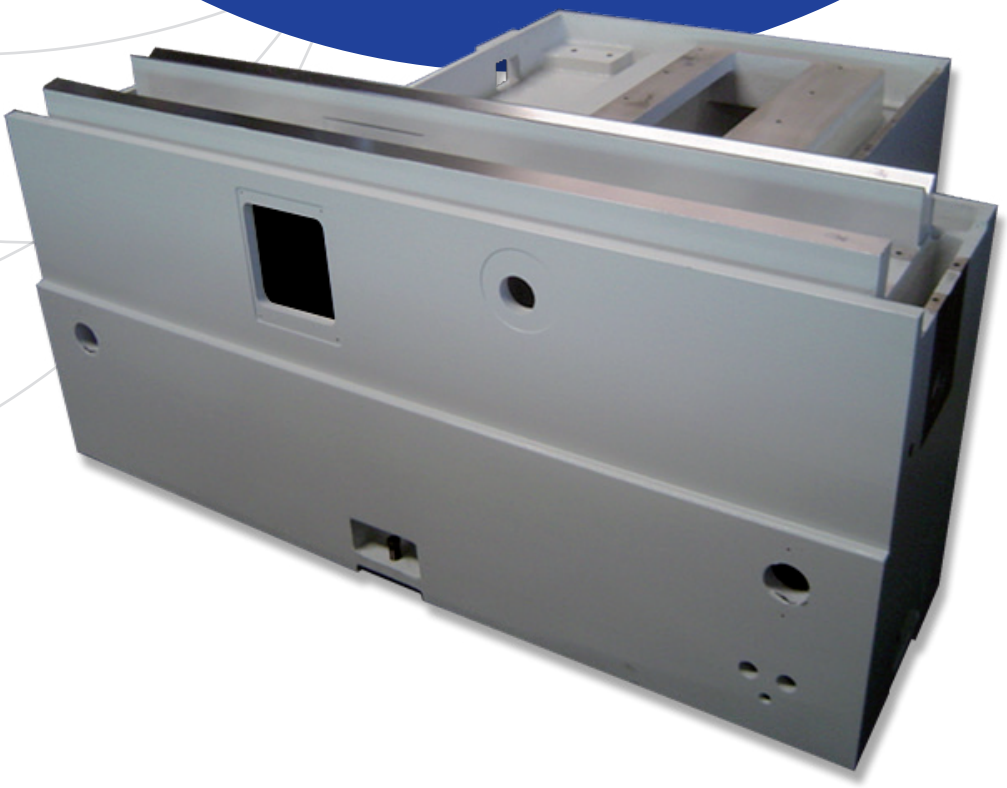
REINFORCED HEAD VERSION

	2000	3000	4000	5000	6000	8000
WORKHEAD						
Rotation speed	0-150 rpm					
Spindle hole diameter	51 mm					
Internal center taper	80 / 100 MT					
External center taper	11 / 15 ASA					
Swivel	NO					
TAIL STOCK						
Spindle stroke	150 mm					
Spindle diameter	200 mm					
Internal center taper	80 / 100 MT					



	2000	3000	4000	5000	6000	8000
WORKING CAPACITY						
Distance between centers	2000 mm	3000 mm	4000 mm	5000 mm	6000 mm	8000 mm
Grinding length	2000 mm	3000 mm	4000 mm	5000 mm	6000 mm	8000 mm
Height of centers over table	400 / 450 /500 mm					
Swing over table	795 / 895 / 995 mm					
Weight on centers	4000 kg					
Cantilever weight	180 kg					
TABLE (Z-AXIS)						
Automatic table traverse	2200 mm	3200 mm	4200 mm	5200 mm	6200 mm	8200 mm
Swivel on either side	+6°	+5°	+4°	+3°	+2°	+0°
	-1°	-1°	-1°	-1°	-1°	-0°
Automatic traverse min.	3 mm					
Speed	1-5000 mm/min					
Handwheel division	0,001 / 0,01 / 0,1 mm					
WORKHEAD						
Rotation speed	0-150 rpm					
Spindle hole diameter	44 mm					
Internal center taper	6 / 8 MT					
External center taper	8 ASA					
Swivel	90°					
TAIL STOCK						
Spindle stroke	100 mm					
Spindle diameter	120 mm					
Internal center taper	6 MT					
WHEEL HEAD (X-AXIS)						
Swivel	+/- 180°					
Handwheel division	0,001 / 0,01 / 0,1 mm					
Manual position travel	250 mm					
Stroke	480 mm					
Speed	0,2-3000 mm/min					
Rotation speed (inverter)	600-1250 rpm					
GRINDING WHEEL SPECIFICATIONS						
Diameter	760 / 1200 mm					
Hole	ø 305 v					
Width	min. 50 mm					
	max. 120 mm					
WORKING FEEDS						
Minimum programmable feed	0,001 mm					
INTERNAL GRINDING ATTACHMENT						
Hole diameter for spindle	100 / 120 mm					
Electric motor	2,20 / 4,00 kW					
MOTORS						
Wheelhead	18,5 / 22,00 kW					
Workhead	12 / 17 kW					
Wheelhead feed (X axis)	11 Nm					
Table feed (Z axis)	48,00 Nm					
Hydraulic power pack	1,50 kW					
Coolant pump	0,18 kW					
DIMENSIONS						
Length (A)	8000 mm	9900 mm	12000 mm	14100 mm	16500 mm	19500 mm
Width (B)	4700 mm	4700 mm	4700 mm	4700 mm	4700 mm	4700 mm
Height (C)	2650 mm	2650 mm	2650 mm	2650 mm	2650 mm	2650 mm
Net weight	20000 kg	23000 kg	25000 kg	27500 kg	30000 kg	35000 kg

Technical Specifications



Machine bed

The grey cast-iron, torsion-resistant machine base has very good damping properties and the top is machined with large ground guides. The table recirculating balls crew with double preloaded nut is positioned in the middle of the base. The machine levelling is undertaken using the recessed cast pockets in the machine base. Standard levelling screws and plates are supplied along with the machine. Considering the base structure, a foundation is not required, if the machine leans on a solid concrete floor with a thickness of approx. 25 cm for machines up to length 2000 mm.

Table

The table is manufactured in two parts, both are in normalised and stabilised cast iron. The lower part is lubricated by a continuous oil flow distributed over the complete length. The upper section of the table can be swivelled in both directions (CW/CCW), suitable to grind tapered workpieces. A scale makes the table easy to set up and the micrometric device with dial indicator permits to achieve the perfect correction on taper grinding.
The brushless motor which moves the screw, is controlled in closed loop by the motor encoder and optionally by a linear encoder with resolution of 0,0001 mm.

Electrical equipment

The electric cabinet is isolated from the machine and includes all the digital axis drives, spindle inverters and electric equipment. It has a protection of IP 55 degree and is refrigerated by a side wall chiller unit.

Lubrication system

The oil lubrication power pack supplies oil to the table guides. The recovered oil is filtered and then returned to the lubrication tank. The wheel head guide carriages are grease lubricated.

Hydraulic system

The hydraulic power pack activates the hydraulic cylinder of the tailstock (optional on model RT7 and ET7) and other different devices if they are present. The pressure of the tailstock is programmable directly from the touch screen control. The unit is equipped with an oil-air heat exchanger. (first oil filling not included)

Pneumatic system

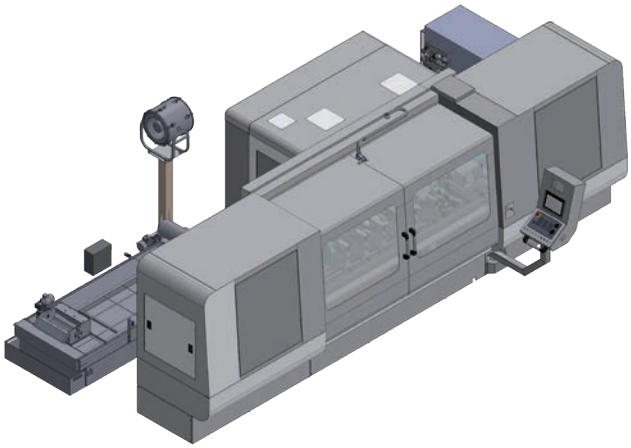
The pneumatic unit consists of:
Filter Dryer Pressure regulator Lubricator (FRL).
This distributes the ‘air cushion’ on the wheel-head to aid while sliding and positioning the items during the setting-up operations.

Guards and enclosure

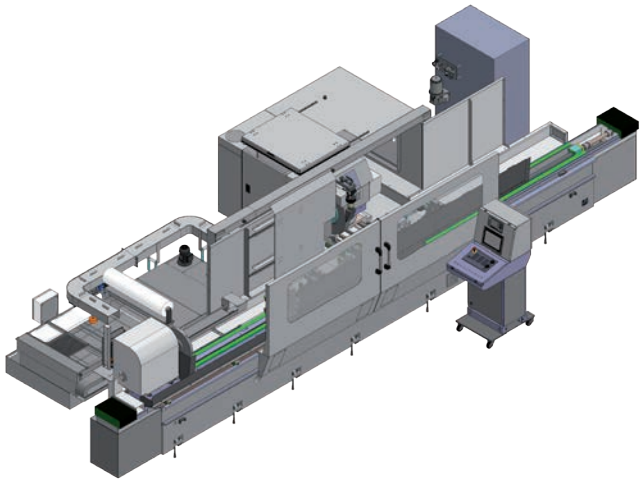
For the health and safety of the operator all moving parts are covered with suitable guards as protection guarding for belts, protection casing for grinding wheel and cloth bellows for guides. At the front of the machine are located one or two sliding doors with poly-carbonate window. A movable shield controlled by a pneumatic cylinder, protects the operator when the grinding wheel is in rotation and the front sliding doors are open. A safety device does not permit the automatic cycle to start if the front sliding doors are open.On request is possible to equip the machine with a full enclosure that permits the perfect isolation of the working area from the surrounding environment.

Full Enclosure

Standard up to 1500 mm distance between centers



Front sliding doors

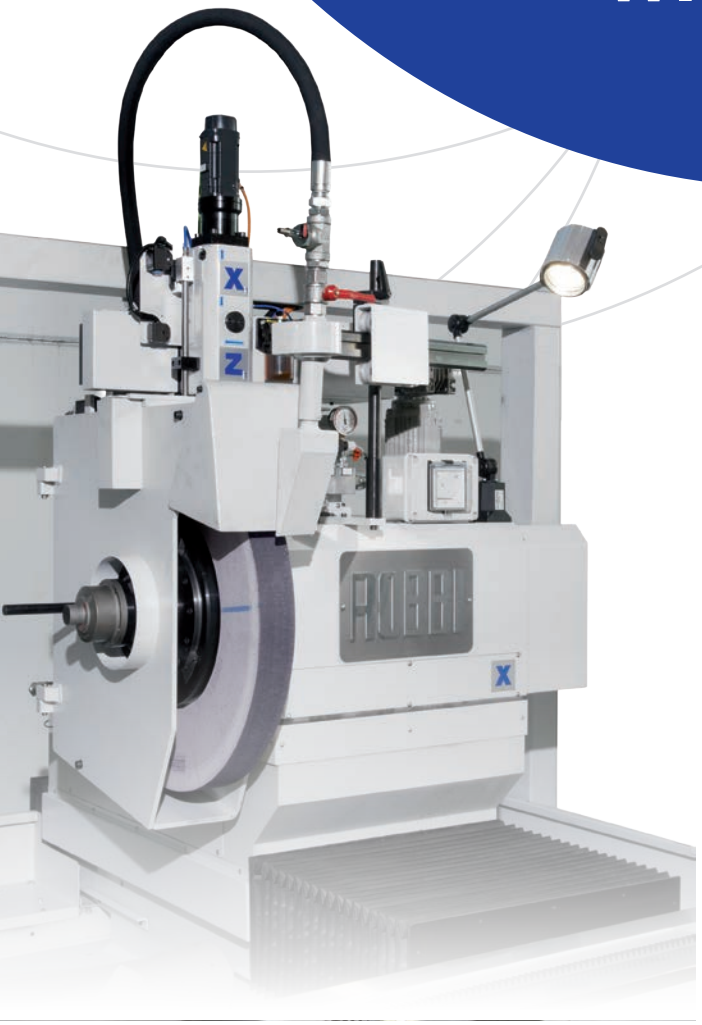


Standard equipment

- Hydraulic tailstock with micrometric taper adjusment (Only for models PT7 and MT7)
- Air conditioner for electrical cabinet
- Grinding wheel of appropriate size and dimensions
- Grinding wheel flange
- Wheel balancing arbor
- Wheel extractor
- 2 hard metal tipped centres
- Set of levelling screws and plates
- Set of service tools
- 5 Kg. oil for wheel spindle lubrication (only for hydrodynamic spindles)
- 5 Kg. oil for guide lubricating
- Instructions manual



Wheelhead



The structure is composed of two carriages in normalised cast iron. The upper carriage accommodates the spindle. On the smaller size version it has a manual stroke positioning of 130 mm and a pneumatic lifting that facilitates the movement during setup and resetting.
The lower carriage is driven by a re-circulating ball screw with double preloaded nut and slides on linear roller guides.
The guides and the nut are grease lubricated. The brushless motor which moves the screw, is controlled in closed loop by the motor encoder and optionally linear encoder with resolution of 0,0001 mm.

Wheelhead spindle

A hydrodyamnic wheelhead spindle rotates on antifriction metal bushes which reduces vibration and provides a smooth surface finish. This spindle is driven by an A.C. motor. The speed is continuously variable and controlled by an inverter. On larger size models thewheelhead spindle may be ball bearing or hydrostati execution. On models with an electro-spindle wheelhead, rotation is performed by high precision bearing and the housing is water cooled.

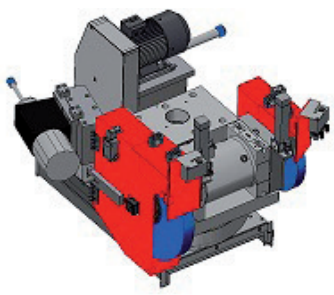
Wheelhead rotation

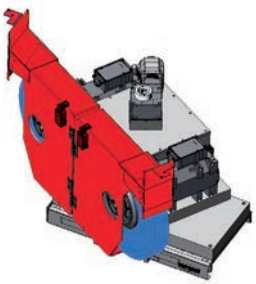
The wheelhead rotates manually as a standard.
On request, the wheelhead rotation may be executed:

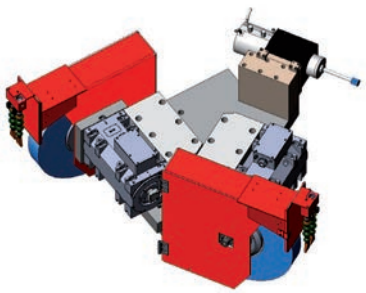
- manually with DRO
- index swivel of 2.5°, with Hirth coupling, in manual execution.

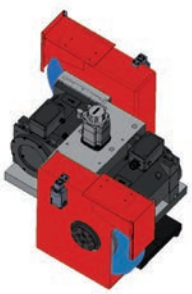
Wheelhead configurations

A large selection of electro-spindles for outside/inside grinding and different wheelhead configurations permits great flexibility in using and to meet customer needs. On request, the machine may be equipped with a second grinding wheel (RH/LH) and an internal grinding device.
The second external grinding wheel may be on the same spindle (double end electro spindle version) or on an independent one. This second solution is the best choice when your needs are to have the highest flexibility required.









Workhead



The structure in normalised, stabilised and well ribbed cast iron, allows to support the workpiece weight and the force generated by the grinding operation. The workhead can be swivelled and equipped with dead and live spindle.
A high precision bearing arrangement provides high rigidity and permit to obtain good roundness for grinding between centres or on live chuck.
The spindle is driven by a brushless motor with programmable speed. The spindle rotation may be intermittently manual or automatic.
The workhead positioning on the table is facilitated by an air flow

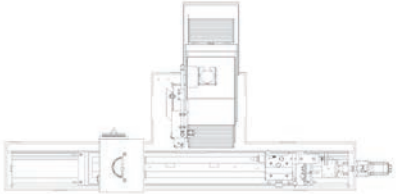
On request other workhead configurations are available.



Workhead rotations

Workhead rotates 90 degrees and the rotation can be:

- manual (standard)
- manually with DRO
- Manually with Indexing 1° Hirth coupling





TailStock

Together with the workhead, the tailstock supports the workpiece weight and the forces generated during the grinding process. The structure, made of normalized and stabilized cast iron, provides rigidity, dimensional stability, and good vibration damping. On the version PT7 and MT7 it is built in two parts to allow taper correction, ensuring accurate machining results. The hydraulic actuator enables the automatic opening and closing of the barrel. It is operated by a foot pedal and equipped with a safety device to prevent accidental opening. On models RT7 and ET7 the hydraulic configuration is available on request.



Positioning on the table is assisted by an aircushion system, which allows smooth movement and reduces wear on the guides. The tailstock is equipped with micrometric taper adjustment and programmable hydraulic pressure control, features that improve repeatability and allow the correct clamping force to be applied according to the workpiece (Standard on models PT7 and MT7).

Internal Grinding







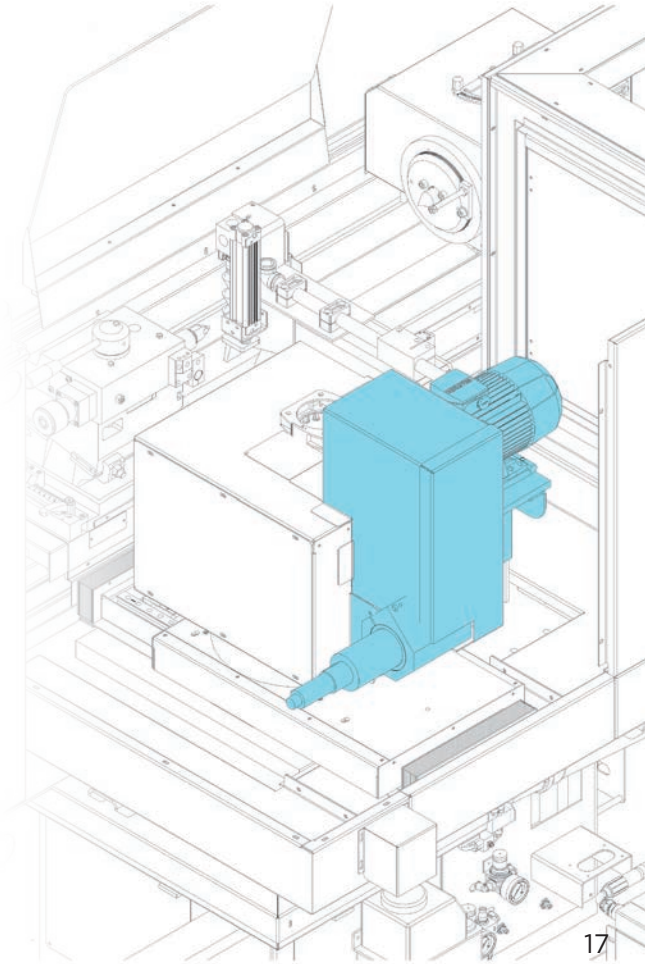


The machine (on request) may be equipped with internal grinding attachment mounted on rear side of wheel head.
Robbi Group offers a large selection of internal grinding spindles that can be:

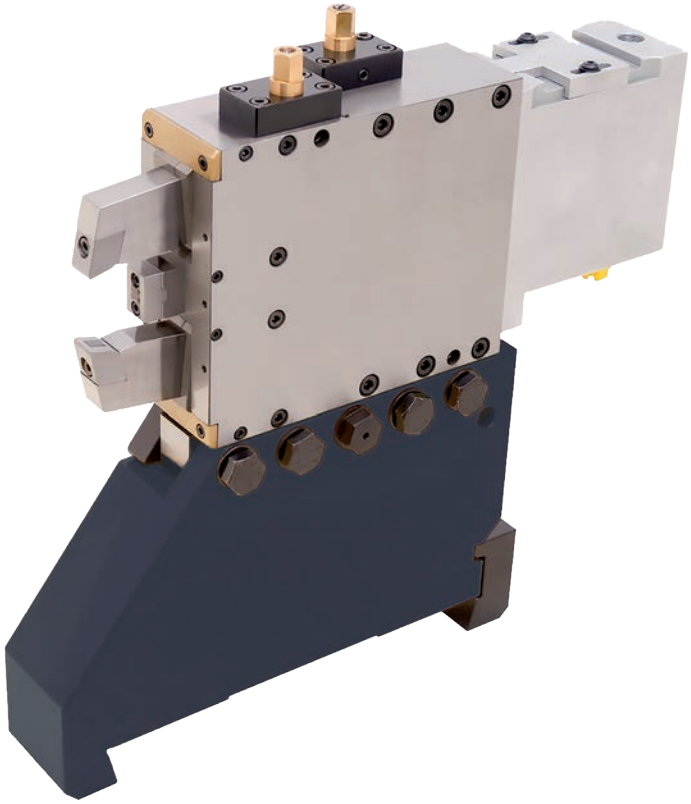
- belt driven spindles up to 27,000 RPM
- motor spindles up to 30,000 RPM
- electro spindles up to 120,000 RPM

All spindles are driven by a frequency converter which permits the setting of the proper grinding wheel speed. In case of electro spindle the motor is refrigerated by a dedicated chiller unit.

A large selection of quills and attachments are available



Steady Rests



Our grinding machines can be equipped with steady rests, designed to provide stability and precision when machining long or complex workpieces.
They are available in two main versions: manual and hydraulic self-centering.

Manual Steady Rests

- Two-point contact opening: ideal for external grinding of shafts and cylindrical components, offering stable and precise support.
- Three-point contact closing: suitable for internal grinding of bores, bushings, and spindles, ensuring stable and repeatable centering.
- Micrometric adjustment: enables precise centering of the workpiece, improving machining quality.
  Robust construction: designed to withstand machining stresses, ensuring durability and reliability.



Hydraulic Self-Centering Steady Rests

- Automatic centering: keeps the workpiece automatically centered, minimizing the need for manual adjustments.
- High precision: ensures uniform and consistent support throughout the grinding process, improving the final product quality.
- Retractable arms: allow easy loading and unloading of components. Suitable for larger diameters: ideal for continuous production cycles and for long or complex-shaped workpieces.

These steady rests provide stable and precise support, minimizing vibrations and deformations while facilitating the grinding of long or complex components.

Workholding Systems

Our grinding machines can be equipped with a wide range of workholding solutions, designed to ensure **secure clamping, reduced setup times, and consistent machining quality.**

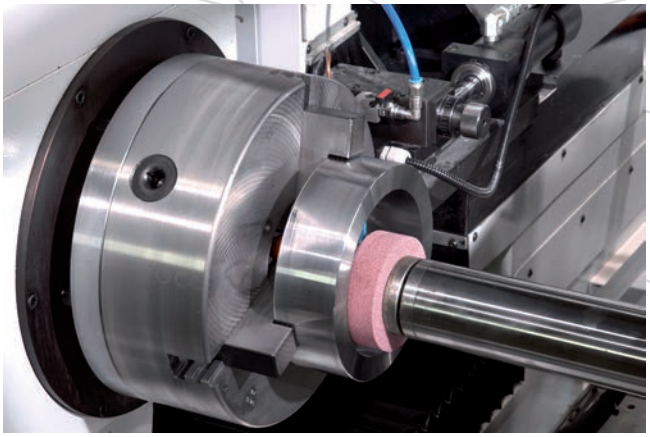
- **Self-centering chucks and four-jaw independent chucks (Ø 160–500 mm)**
  Versatile solutions for both standard and irregular workpieces, combining centering accuracy with strong clamping force. They can be fitted with hard jaws (straight or reversed) or soft, machinable jaws to suit different clamping needs.

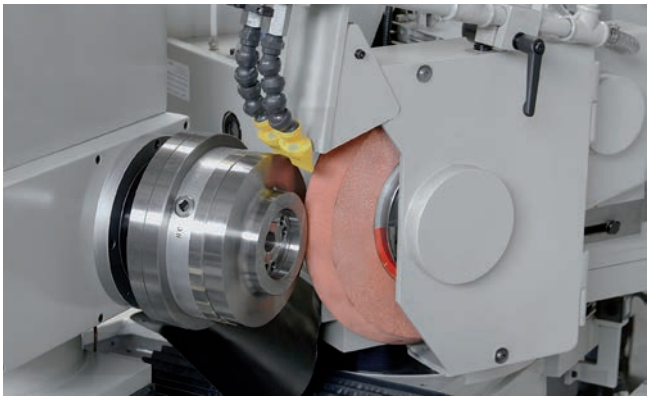
- **Face drivers and live centers**
  Available in versions with a fixed point and hydraulic actuator or with a spring-loaded center, they allow complete grinding of the workpiece in a single setup, reducing setup times and ensuring high repeatability on parts of various sizes.

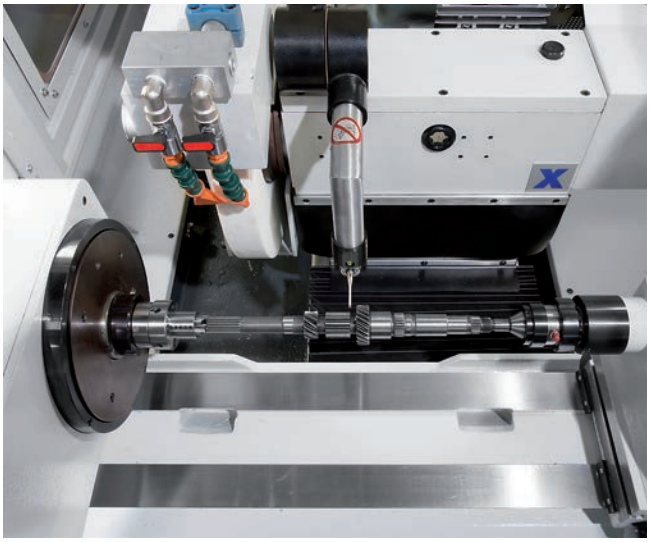
- **Circular magnetic chucks with radial poles**
  Ideal for discs and rings, they ensure uniform clamping across the entire contact area and provide optimal tool accessibility.

- **Collet systems (manual or hydraulic)**
  A fast and precise solution for small diameters, offering consistent concentricity and easy integration with automatic loading systems.

- **Automatic clamps and carbide dead centers**
  Robust and reliable accessories that enhance durability and precision in the most demanding operations. Thanks to this wide range of solutions, our grinding machines can easily adapt to workpieces of every size and shape, delivering the perfect balance of productivity, flexibility, and grinding quality.







Dressing



A well dressed grinding wheel is crucial to obtain a high-performance and high-quality grinding process. The rigid dressing unit device is positioned on the tailstock.
The dressing tool maybe positioned in three directions (straight or angled).

The wheel dresser for external grinding wheels can be mounted on the:

- table
- tailstock

The wheel dresser support can be:

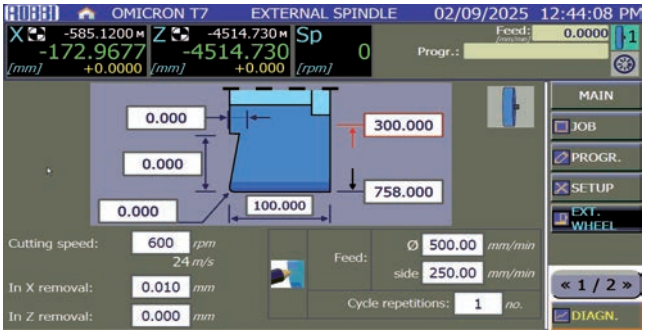
- fixed
- tilting hydraulic

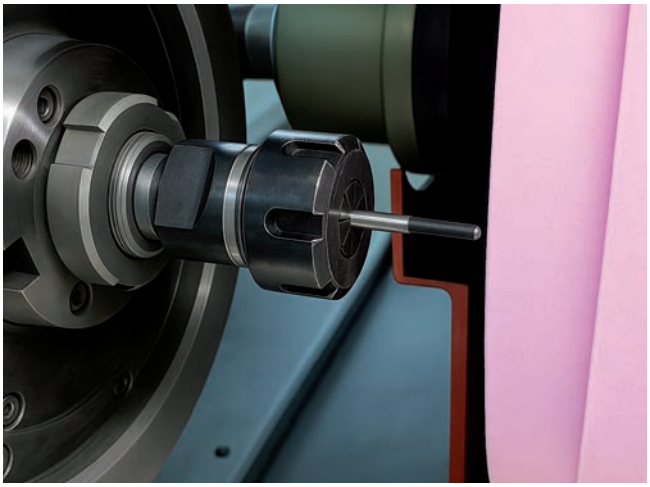
The machine can use for dressing:

- fixed tools
- or high frequency diamond rolls, particularly useful for internal grinding wheels

Dressing cycle features:

- The dressing cycle automatically compensates the wear of the grinding wheel.
- The operator may set the dressing cycle at the beginning of the cycle or before the finishing operation.





Process Control

Automatic Wheel Balancing System

This system continuously monitors spindle and wheel vibrations during machining operations and automatically corrects any imbalance in real time. By maintaining optimal balance, it significantly improves grinding performance and tool life.

Main Benefits:

- Improved mechanical stability through reduced vibration
- Enhanced surface finish by eliminating facets, circularity deviations, and roughness issues
- Ability to increase the wheel's peripheral speed safely
- Higher process efficiency and productivity
- Reduced wear and stress on spindle and bearing components





Gap and Crash Detection System

This system detects the initial contact between the grinding wheel and the workpiece or dressing tool. Based on real-time signal monitoring, it provides valuable support during setup and improves process control throughout the grinding cycle.

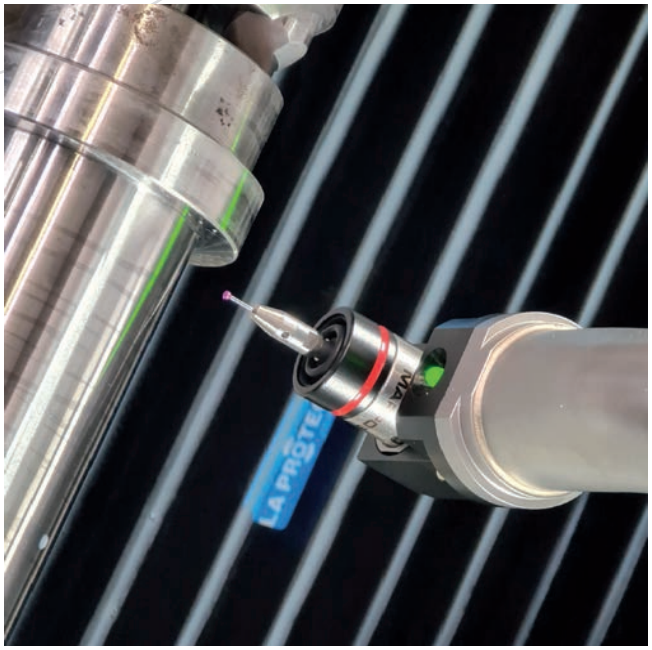
Key Functions:

- Supports the operator during setup and dressing operations
- Reduces cycle time by minimizing the approach phase
- Ensures accurate detection of contact conditions for precise profiling
- Prevents potential collisions between wheel and workpiece or other components

Gauging

Workpiece axial probe

An axial probing system, using a flag-style contact sensor combined with PLC control, precisely records the Z-axis position of the workpiece on the table. This setup enables protected positioning and automated calibration cycles typically found in advanced systems, similar to high-precision probing solutions offered by leaders in the field



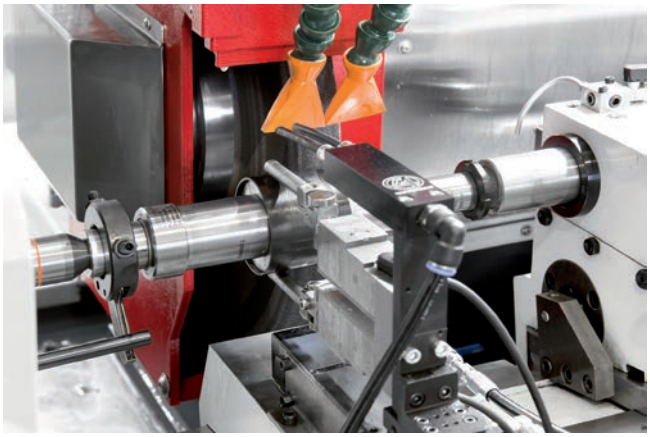


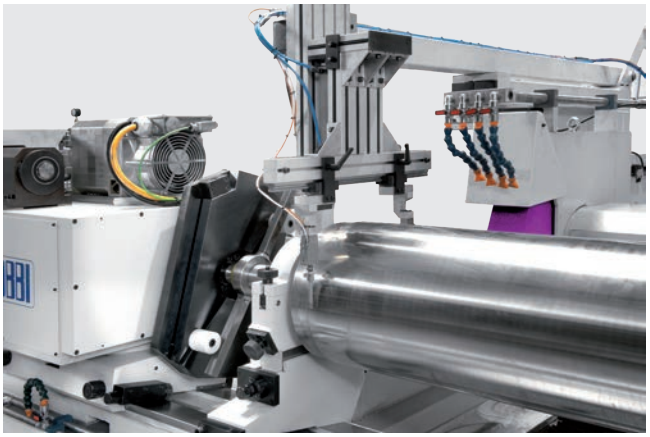
In process measuring gauge

Real-time measurement and automatic feedback are used to maintain tight tolerances during grinding:

- Diameter control over different ranges
- Surface inspection (continuous and segmented)
- Form and roundness analysis
- Automatic correction of detected deviations;

Absolute measuring gauge are available on request.

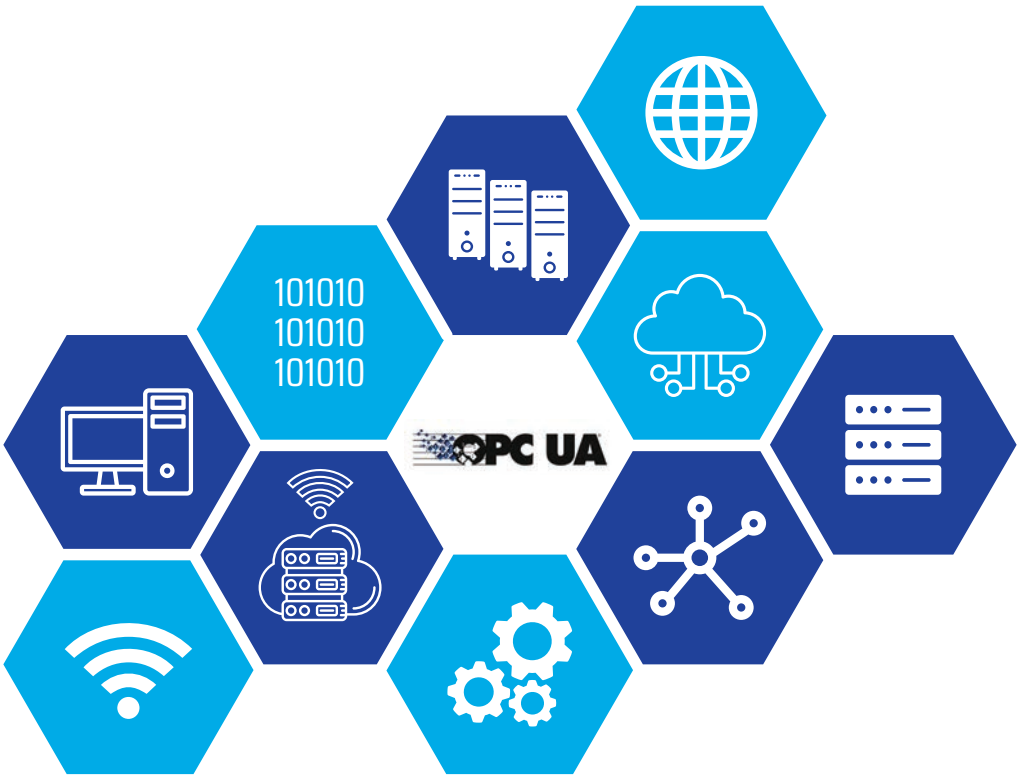




Production monitoring And remote service



Our system is equipped with an advanced remote assistance module, enabling real-time diagnostics, support, and monitoring through a secure TLS-encrypted connection over the Internet. Remote access allows operators and service personnel to interact directly with the machine interface, reducing downtime and facilitating immediate troubleshooting — wherever you are.
The machine is also Industry 4.0 compliant, offering full interconnection to production data management (PDM) systems via the standardized OPC UA protocol. This enables bidirectional communication with higher-level control systems, allowing key machine variables to be read or written for analysis, traceability, and integration into digital manufacturing environments.
Combined, these technologies provide a solid foundation for smart manufacturing, with seamless integration into MES/SCADA systems, predictive maintenance capabilities, and remote lifecycle management.



ADVANTAGES

1. **Reduced Machine Downtime**
2. **Real-Time Monitoring of Machine Parameters**
3. **Predictive Maintenance Enablement**
4. **Improved Customer Support and Service Transparency**

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Make your world go round

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