



# OMICRON

## SEMI AUTOMATIC

### UNIVERSAL CYLINDRICAL GRINDING MACHINES

PRECISION SINCE 1936



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# OMICRON T6: HALBAUTOMATISCHE

## AUTOMATED AND ECONOMIC GRINDERS



## AUTOMATIC AND MANUAL OPERATIONS GRINDERS

- Excellent versatility and high quality standards
- Extremely fast and precise also when processing complex components
- Easy preset of working diameter
- Single or small batch production workpieces, with the ability to function both in manual or automatic-mode
- Automatic compensation of diameter after dressing
- In-process measuring gauge and gap control system (on request)

## STANDARD OPERATOR PANEL



# SIMPLE HUMAN-MACHINE INTERFACE

- Wheelhead and table position visualized on operator panel
- Possibility to program up to 12 different diameters, on the same grinding cycle
- Possibility to update the operator panel, with the correction of each diameter
- Semi automatic grinding cycle, with stop of the grinding wheel feed once the programmed diameter has been reached
- Automatic grinding wheel dressing cycle with compensation of all the grinding dimensions

Axis

X Movement of wheel head

Z Movement of table

Selection of the electronic handwheel division

Automatic

Manual

✓ ✓

✓ ✓

## WORKING CYCLES WITH EASY PROGRAMMING

	OD	ID
PASS	✓	✓
PLUNGE	✓	✓
FACING	✓	
MULTI DIAMETER	✓	✓

- stock removal - rough and finish
- dwell - table inversion
- sparkout time
- sparkout pass

### PASS GRINDING CYCLES

Automatic increments - rough and finish

### PLUNGE GRINDING CYCLES

Automatic feeds - rough and finish

Touch screen operator panel SIEMENS TP700 for easy programming of grinding cycles

## OPERATOR PANEL (Optional)



## PARAMETRIC SCREENS



# OMICRON R T6



COMPLETE CLOSURE - TYPE B

REMOTE HANDWHEEL  
(Optional)



<b>WORKING CAPACITY</b>	<b>600</b>	<b>1000</b>
Distance between centers	max. 600	1000 mm
Grinding length	max. 600	1000 mm
Height of centers over table		160 mm
Swing over table	max. 315	mm
Weight on centers	max. 120	kg
Cantilever weight <sup>1</sup>	max. 40	kg

<b>TABLE (Z - AXIS)</b>	<b>600</b>	<b>1000</b>
Automatic table traverse	max. 680	1080 mm
Swivel on either side	+9° -5°	+8° -4°
Automatic traverse min.		3 mm
Speed		1-5000 mm/min
Handwheel division	0,001 0,01	0,1 mm

<b>WORKHEAD</b>	
Rotation speed	0-600 rpm
Spindle hole diameter	26 mm
Internal center taper	4 MT
External center taper <sup>3</sup>	5 ASA
Swivel	90°

<b>TAIL STOCK</b>	
Spindle stroke	25 50 <sup>3</sup> mm
Spindle diameter	43 70 <sup>3</sup> mm
Internal center taper	4 MT

<b>WHEEL HEAD (X - AXIS)</b>	
Swivel	max. +/- 180°
Handwheel division	0,001 0,01 0,1 mm
Manual position travel	250 mm
Stroke	max 480 mm
Speed	max 0,2-3000 mm/min
Rotation speed (inverter)	600-1600 rpm

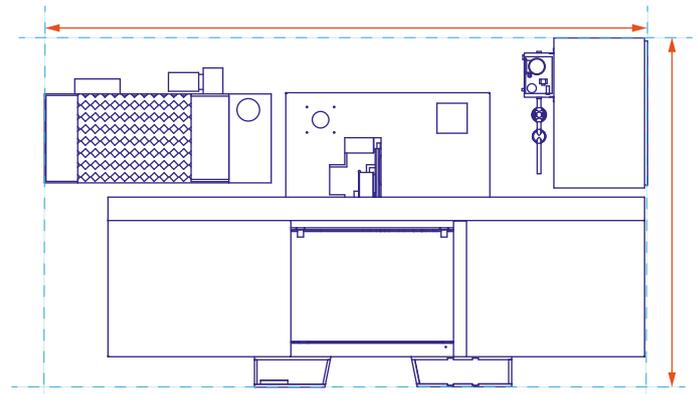
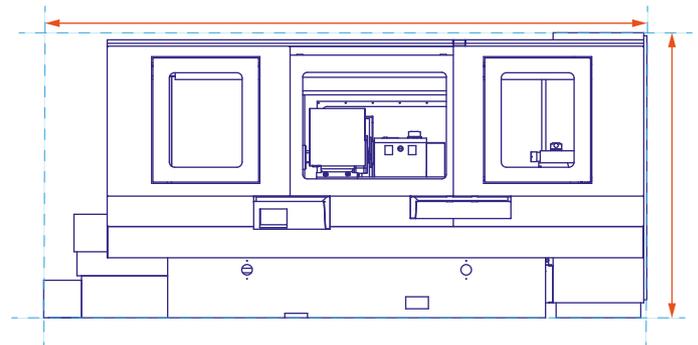
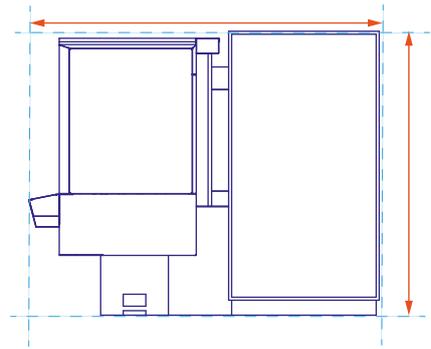
<b>GRINDING WHEEL SPECIFICATIONS</b>	
Diameter	max. 450 mm
Hole	127 mm
Width	min. 20 mm max. 50 mm

<b>WORKING FEEDS</b>	(mm)
Minimum programmable feed	0,001

<b>INTERNAL GRINDING ATTACHMENT</b>	
Hole diameter for spindle	80 mm
Electric motor	1,50 kW

<b>MOTORS</b>	
Wheelhead	4,00 kW
Workhead	0,75 kW
Wheelhead feed (X axis)	3,00 Nm
Table feed (Z axis)	6,00 Nm
Hydraulic power pack <sup>3</sup>	0,75 kW
Coolant pump	0,18 kW

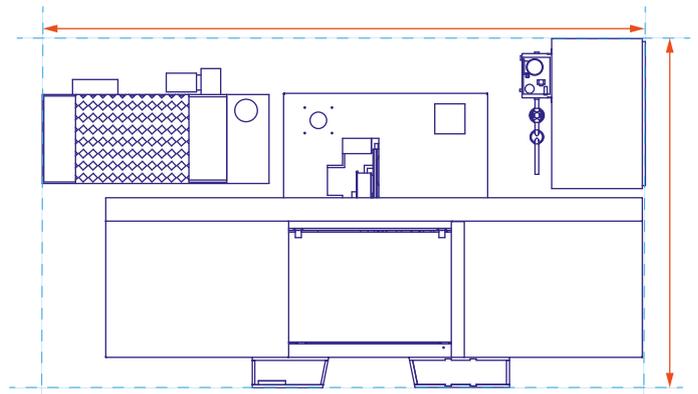
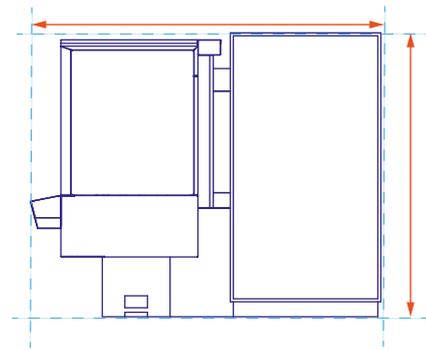
<b>DIMENSIONS</b>	<b>600</b>	<b>1000</b>
Length	2900	3550 mm
Width	1350	1350 mm
Height	1750	1900 mm
Net weight	2800	3500 Kg



# OMICRON E T6



## ESSENTIAL REPAIR - C TYPE



<b>WORKING CAPACITY</b>		<b>600</b>	<b>1000</b>	<b>1500</b>	<b>2000</b>
Distance between centers	max.	630	1030	1530	2030 mm
Grinding length	max.	630	1030	1530	2030 mm
Height of centers over table				180	230 <sup>3</sup> mm
Swing over table			max.	355	455 <sup>3</sup> mm
Weight on centers			max.	250	300 <sup>3</sup> kg
Cantilever weight <sup>1</sup>			max.	80	80 kg

<b>TABLE (Z - AXIS)</b>		<b>600</b>	<b>1000</b>	<b>1500</b>	<b>2000</b>
Automatic table traverse	max.	780	1180	1680	2180 mm
Swivel on either side		+9°	+8°	+7°	+6°
		-5°	-4°	-3°	-2°
Automatic traverse	min.				3 mm
Speed					1-5000 mm/min
Handwheel division		0,001	0,01	0,1	mm

<b>WORKHEAD</b>		
Rotation speed		0-600 rpm
Spindle hole diameter		31 mm
Internal center taper		5 MT
External center taper <sup>3</sup>		5 ASA
Swivel		90°

<b>TAIL STOCK</b>			
Spindle stroke		35	70 <sup>3</sup> mm
Spindle diameter		48	70 <sup>3</sup> mm
Internal center taper		4	5 MT

<b>WHEEL HEAD (X - AXIS)</b>			
Swivel	max.		+/- 180°
Handwheel division		0,001	0,01 0,1 mm
Manual position travel			250 mm
Stroke	max		480 mm
Speed	max	0,2-3000	mm/min
Rotation speed (inverter)		600-1600	rpm

<b>GRINDING WHEEL SPECIFICATIONS</b>		
Diameter		450-500 <sup>3</sup> mm
Hole		127 mm
Width	min.	20 mm
	max.	80 mm

<b>WORKING FEEDS</b>		(mm)
Minimum programmable feed		0,001

<b>INTERNAL GRINDING ATTACHMENT</b>		
Hole diameter for spindle		100 mm
Electric motor		1,50 kW

<b>MOTORS</b>		<b>600</b>	<b>1000</b>	<b>1500</b>	<b>2000</b>
Wheelhead		5,50 - 7,50 <sup>3</sup>			kW
Workhead		1,50 - 2,20 <sup>3</sup>			kW
Wheelhead feed (X axis)		3,00			Nm
Table feed (Z axis)		11,00			Nm
Hydraulic power pack <sup>3</sup>		0,75			kW
Coolant pump		0,18			kW

<b>DIMENSIONS</b>		<b>600</b>	<b>1000</b>	<b>1500</b>	<b>2000</b>
Length		2900	3700	5200	6600 mm
Width		1500	1500	1500	1500 mm
Height		2100	2100	2100	2100 mm
Net weight		3800	4700	6200	7700 Kg



**LATERAL REMOTE HANDWHEEL  
(Optional)**



# OMICRON P T6



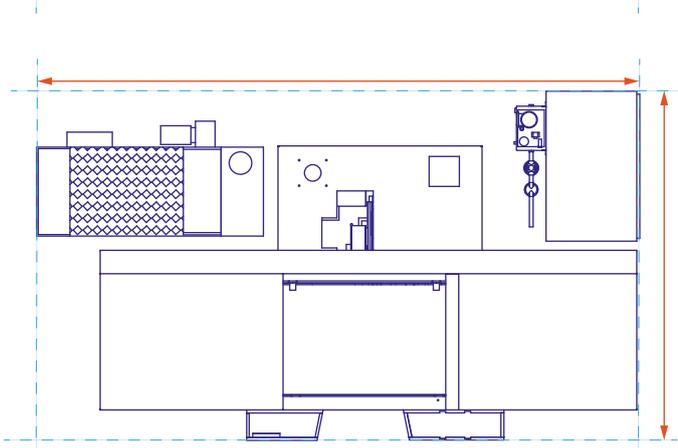
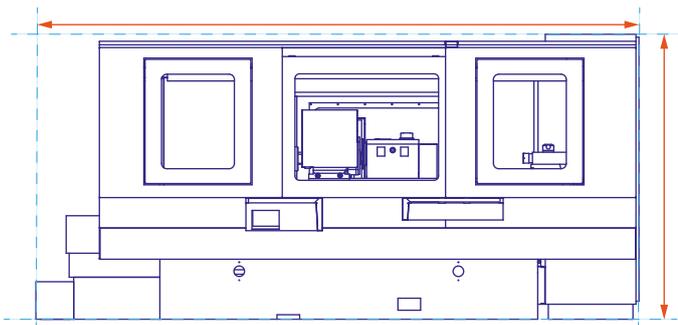
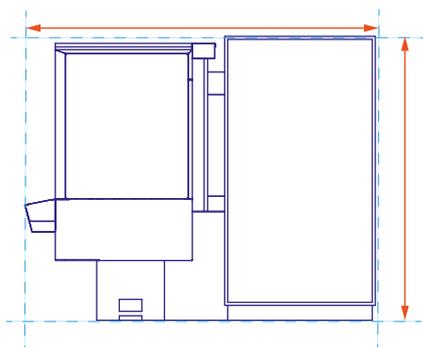
ESSENTIAL REPAIR - C TYPE



ESSENTIAL REPAIR - C TYPE (rear view)



**OMICRON 2000 PT6**



<b>WORKING CAPACITY</b>	<b>1000</b>	<b>1500</b>	<b>2000</b>	<b>3000</b>
Distance between centers	max 1150	1750	2250	3150 mm
Grinding length	max 1000	1600	2100	3000 mm
Height of centers over table			300	350 <sup>3</sup> mm
Swing over table		max. 595	695 <sup>3</sup>	mm
Weight on centers		max. 1200		kg
Cantilever weight <sup>1</sup>		max. 120		kg

<b>TABLE (Z - AXIS)</b>	<b>1000</b>	<b>1500</b>	<b>2000</b>	<b>3000</b>
Automatic table traverse	max. 1150	1650	2150	3050 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

<b>WORKHEAD</b>	
Rotation speed	0-300 rpm
Spindle hole diameter	44 mm
Internal center taper	6 MT
External center taper <sup>3</sup>	8 ASA
Swivel	90°

<b>TAIL STOCK</b>	
Spindle stroke	70 mm
Spindle diameter	80 mm
Internal center taper	5 MT

<b>WHEEL HEAD (X - AXIS)</b>	
Swivel	max. +/- 180°
Handwheel division	0,001 0,01 0,1 mm
Manual position travel	250 mm
Stroke	max 480 mm
Speed	max 0,2-3000 mm/min
Rotation speed (inverter)	600-1250 rpm

<b>GRINDING WHEEL SPECIFICATIONS</b>	
Diameter	max. 610 mm
Hole	230 mm
Width	min. 50 mm
	max. 120 mm

<b>WORKING FEEDS</b>	(mm)
Minimum programmable feed	0,001

<b>INTERNAL GRINDING ATTACHMENT</b>	
Hole diameter for spindle	100 120 <sup>3</sup> mm
Electric motor	2,20 4,00 <sup>3</sup> kW

<b>MOTORS</b>	
Wheelhead	11,00 15,00 <sup>3</sup> kW
Workhead	4,0 5,5 <sup>3</sup> 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

<b>DIMENSIONS</b>	<b>1000</b>	<b>1500</b>	<b>2000</b>	<b>3000</b>
Length	5200	5700	6850	9000 mm
Width	1950	1950	1950	1950 mm
Height	2100	2100	2100	2100 mm
Net weight	6800	8100	9300	11000 Kg

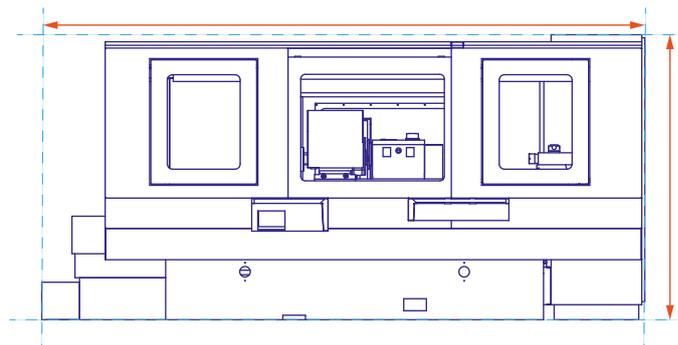
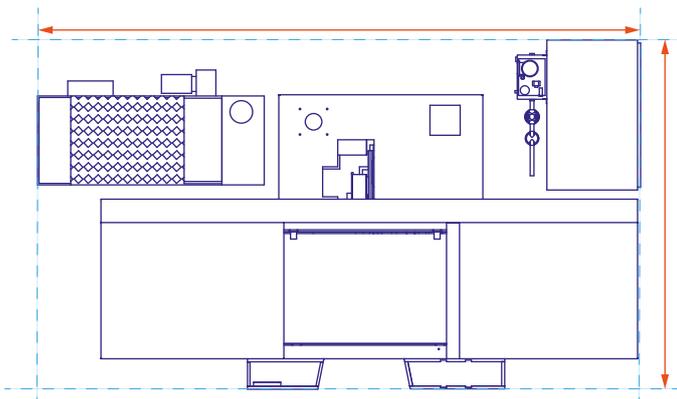
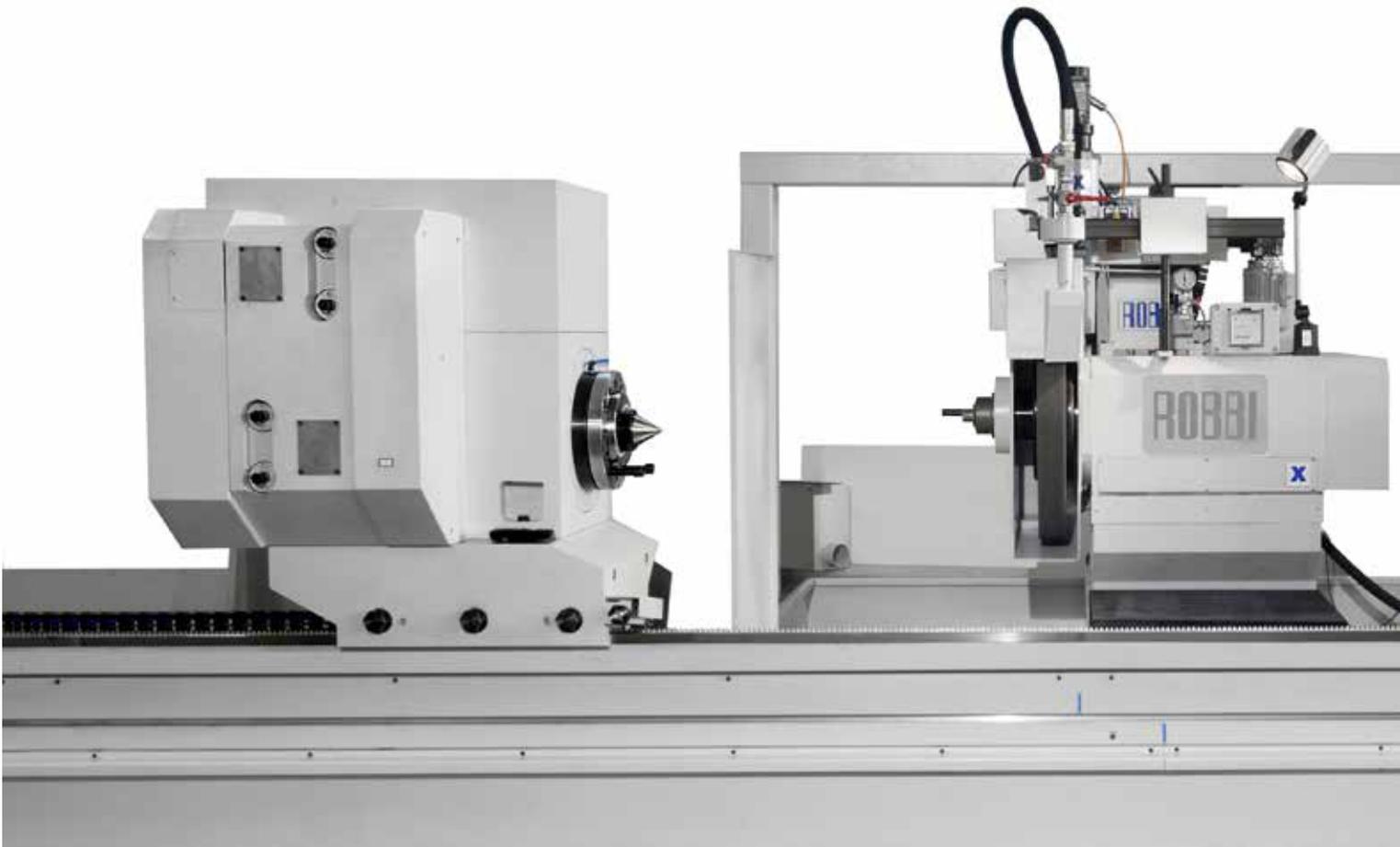


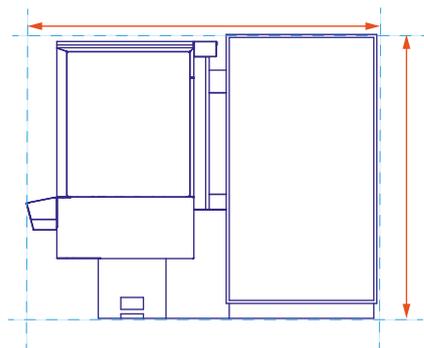
<sup>1</sup>150 mm from workhead spindle nose

<sup>2</sup>Without Inverter

<sup>3</sup>Option

# OMICRON M T6





<b>WORKING CAPACITY</b>	<b>3000</b>	<b>4000</b>	<b>5000</b>	<b>6000</b>	<b>8000</b>
Distance between centers max	3000	4000	5000	6000	8000 mm
Grinding length max	3000	4000	5000	6000	8000 mm
Height of centers over table			400	450 <sup>3</sup>	500 <sup>3</sup> mm
Swing over table		max. 795	895 <sup>3</sup>	995 <sup>3</sup>	mm
Weight on centers		max.	4000		kg
Cantilever weight <sup>1</sup>		max.	180		kg

<b>TABLE (Z - AXIS)</b>	<b>3000</b>	<b>4000</b>	<b>5000</b>	<b>6000</b>	<b>8000</b>
Automatic table traverse max	3200	4200	5200	6200	8200 mm
Swivel on either side	+5°	+4°	+3°	+2°	+0°
	-1°	-1°	-1°	-1°	-0°
Automatic traverse min.				3	mm
Speed				1-5000	mm/min
Handwheel division		0,001	0,01	0,1	mm

<b>WORKHEAD</b>	
Rotation speed	0-150 rpm
Spindle hole diameter	44 mm
Internal center taper	6 MT - 8 METRICO <sup>3</sup>
External center taper <sup>3</sup>	8 ASA
Swivel	90°

<b>TAIL STOCK</b>	
Spindle stroke	80 mm
Spindle diameter	120 mm
Internal center taper	6 MT

<b>WHEEL HEAD (X - AXIS)</b>	
Swivel	max. +/- 180°
Handwheel division	0,001 0,01 0,1 mm
Manual position travel	250 mm
Stroke	max 480 mm
Speed	max 0,2-3000 mm/min
Rotation speed (inverter)	600-1250 rpm

<b>GRINDING WHEEL SPECIFICATIONS</b>	
Diameter	760-1200 mm
Hole	305 mm
Width	min. 50 mm max. 120 mm

<b>WORKING FEEDS</b>	(mm)
Minimum programmable feed	0,001

<b>INTERNAL GRINDING ATTACHMENT</b>	
Hole diameter for spindle	100 120 <sup>3</sup> mm
Electric motor	2,20 4,00 <sup>3</sup> kW

<b>MOTORS</b>	
Wheelhead	15,00 kW
Workhead	7,50 kW
Wheelhead feed (X axis)	6,00 Nm
Table feed (Z axis)	36,00 Nm
Hydraulic power pack	1,50 kW
Coolant pump	0,18 kW

<b>DIMENSIONS</b>	<b>3000</b>	<b>4000</b>	<b>5000</b>	<b>6000</b>	<b>8000</b>
Length	9860	12260	14000	16500	18500 mm
Width	2400	2400	2400	2400	2400 mm
Height	2650	2650	2650	2650	2650 mm
Net weight	23000	25000	27500	30000	35000 Kg

# TECHNICAL SPECIFICATIONS



- BASE**  
Structure in normalised and stabilised cast iron with large ground guides.  
On all the lower part of the perimeter are situated the recesses for machine levelling.
- TABLE**  
The table is manufactured in two parts, both are in normalised and stabilised cast iron.  
Lubrication is assured by a constant oil flow distributed over the complete length of the table.  
The upper part of the table is swivelable in the two directions making it suitable for grinding tapered workpieces.
- EQUIPMENT AND ELECTRICAL PLANT**  
The cabinet houses all the electrical / electronic components, PCL control, axis motor controllers etc.
- LUBRICATION PLANT**  
The lubrication power pack, is separate from the machine and supplies continuous oil to the wheelhead and table guides.  
The recovered and filtered table oil is returned to the power pack.
- HYDRAULIC PLANT**  
The hydraulic power pack, is separate from the machine and activates the hydraulic cylinder of the tailstock.
- PNEUMATIC PLANT**  
This distributes the air to the air cushion on the workhead, tailstock, table and wheelhead top-slide as required during the set up and manual movement of the major parts.
- PROTECTIONS**  
For the protection of the operator all movable parts are covered with CE compliant guards.  
Belts and moving parts are covered.  
The front protections are sheet sliding doors with polycarbonate shields, as standard.  
There are two fix steel sheets positioned on the sides of the bed.  
There is also a movable shield in sheet metal, controlled by a pneumatic cylinder, protects the operator, when the grinding wheel is in rotation and the front sliding doors are open.  
A built in interlock safety device, does not permit the automatic cycle to start if the front sliding doors are open

# TECHNICAL SPECIFICATIONS

TABLE	Automatic table longitudinal movement	re-circulating ball screw with preloaded nut	√
		Incremental linear encoder to display the position	0
		Micrometric device with dial gauge for taper control	√
		Machines with distance between centers of more than 4000 mm, the swivelling is facilitated and more precise with teh an air cushion system	√
DRESSER		External diamond dresser on the tailstock	√
		High frequency diamond roll (dressing wheels in CBN or PCD)	0
		Internal diamond dressing device positioned on the table	√
		Internal wheel dresser support, tilting hydraulic	0
ELECTRICAL PLANT CABINET			0
The internal temperature of the cabinet is controlled by an air-conditioning unit.			0
HYDRAULIC CYLINDER DRIVE		tailstock	0
RE-CIRCULATING BALL SCREW NUTS: GREASE LUBRICATED			√
COOLANT PLANT	Automatic opening and closing coolant flow		√
	Large capacity tank for the coolant complete with electro pump		√
	Coolant plant with combined magnetic+paper roll cleaner.		0
FIXED STEEL SHEETS INSTALLED ON THE BED SIDES			√
COMPLETE CLOSURE			0

## STANDARD EQUIPMENT

Coolant equipment complete with pump, electrical equipment, tank, pipes and nozzle	✓
Magnetic and paper roll	○
Coolant Filters	○
Paper roll	○
Magnetic	○
One	✓
Grinding wheel	✓
Flange	✓
Balancing arbor	✓
Extractor	✓
2 hard metal tipped centres	✓
Set of levelling screws and plates	○
2 cloth bellows for table guide protection	✓
Set of service spanners	✓
hexagonal spanners	✓
Oil for lubrication	✓
wheel spindle 5 kg	✓
guide 5 kg	○
Instruction manual	✓

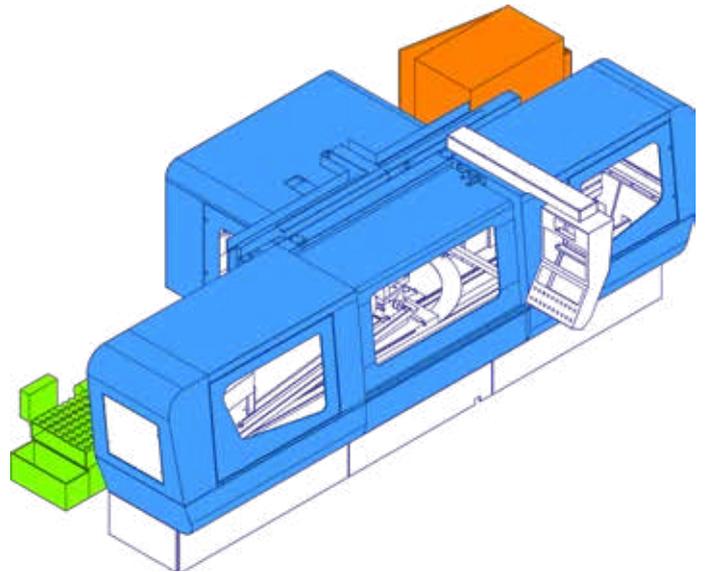
## EQUIPMENT

Axis digital readout	X wheel head	○
	Z table	○
Wheel head and table automatic electronic feeds controlled by brushless motors		✓
Re-circulating ball screw	X wheel head	✓
with preloaded nut	Z table	✓
Table manual swivelling system for taper grinding with dial gauge		✓
Wheel head	Wheelhead slides by means of a recirculating ball screw with double preloaded nut, on linear motion guide with roller cage.	✓
Hydraulic unit for tailstock control		○
Pneumatic unit		✓
Centralized lubrication		✓

# ENCLOSER

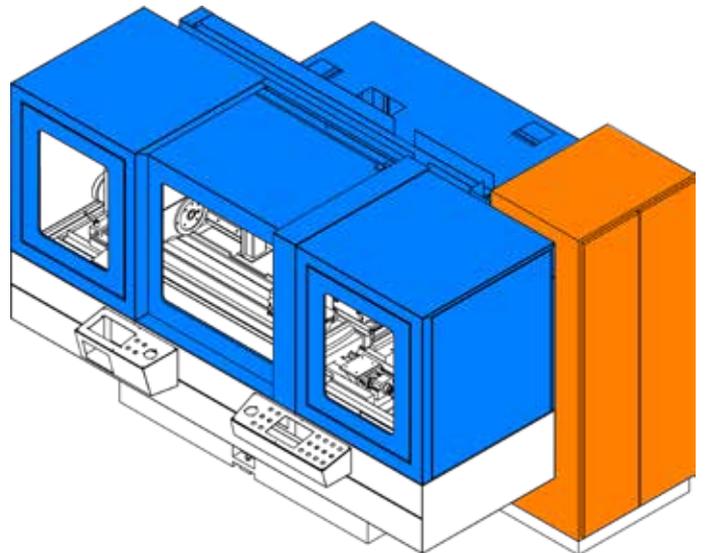
## TYPE A - ROUNDED

- COMPLETE ENCLOSER
- ELEGANT
- BALANCED STYLE



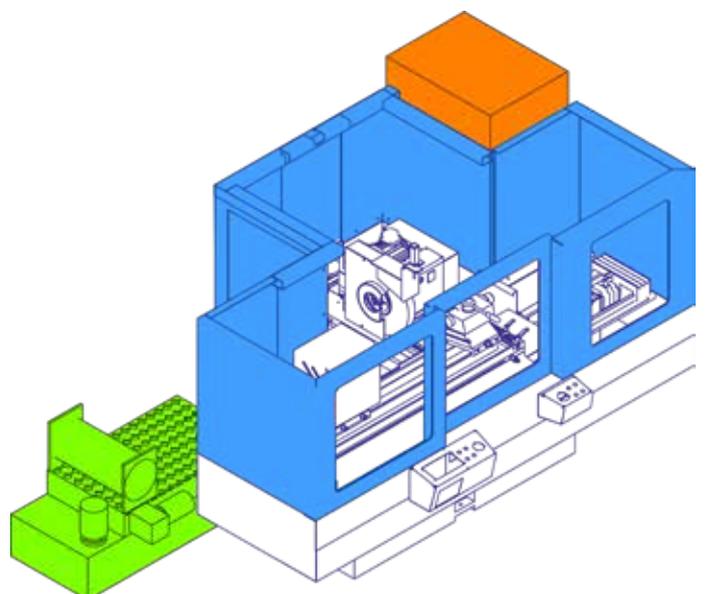
## TYPE B - SQUARE

- COMPLETE ENCLOSER
- FUNCTIONAL
- ESSENTIAL



## TIPO C - STANDARD

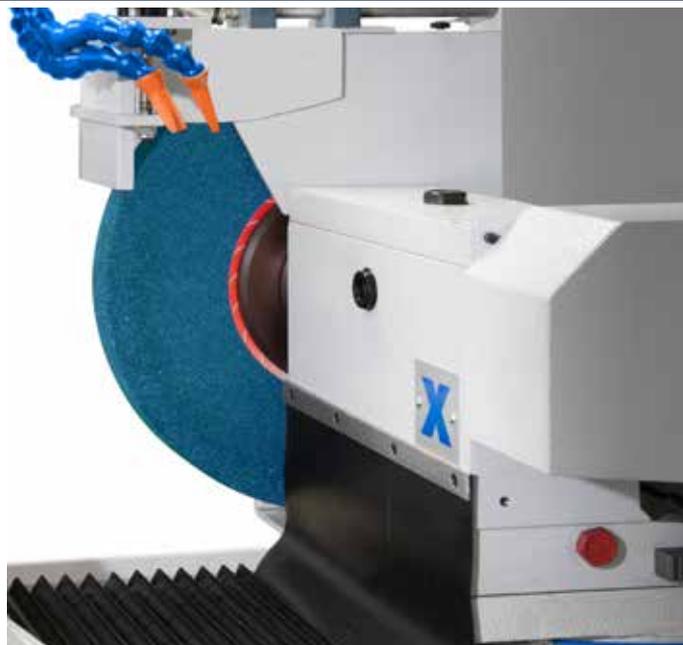
- OPEN TOP
- FUNCTIONAL



# WHEELHEAD

## POSITIONING PRECISION

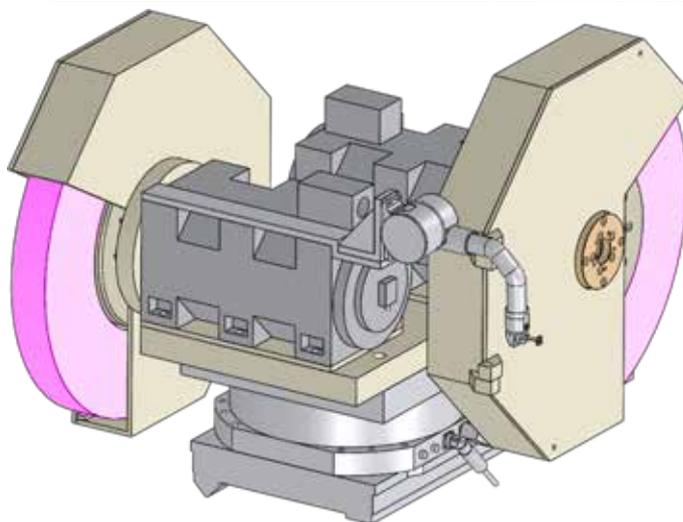
The structure is composed of two carriages in normalised cast iron.  
The upper carriage where the hydrodynamic spindle is located, has a manual stroke positioning to optimise the use of the grinding wheel.  
An air flow facilitates the positioning.  
The lower carriage slides by means of a recirculating ball screw with double preloaded nut, on linear motion guide with roller cage.  
The greasing of the guides is timed.  
The brushless motor which moves the screw, may be controlled (on request) with a closed loop by the incremental linear encoder, which guarantees a positioning precision on the complete stroke of 0,0001 mm



## WHEELHEAD ROTATION 180°

The wheelhead rotates manually 180°.  
On request, the wheelhead rotation of 180° may be executed :

- manually
- manually with DRO
- index swivel of 2.5°, with Hirth coupling :
  - manual
  - automatic with brushless motor
- in continue with TORQUE motor



## WHEELHEAD CONFIGURATION

Wheelhead can be equipped with a second external grinding wheel, mounted on the right side of the same spindle.

## WHEELHEAD CUSTOMIZATION

To respond to more complex processing, the machine can be realized according to customer's requirements such as, for example, grinding wheels mounted on two spindles

## WHEELHEAD SPINDLE

Hydrodynamic type, rotates on anti-friction metal bushes, guaranteeing high finish degree.  
Rotation by means of an AC motor.  
Transmission by means of pulleys and Poly-V belt.  
The speed is regulated by inverter

## CUSTOMIZATION

On request electrospindle of different power can be assembled



# WORKHEAD



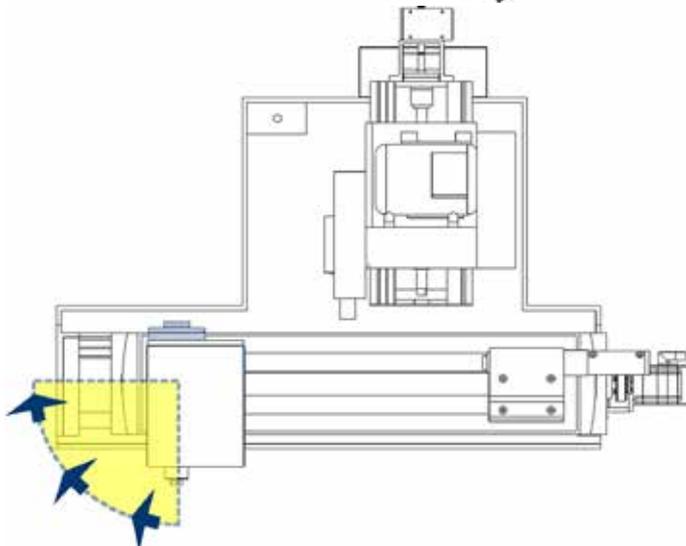
## DEAD AND LIVE SPINDLE POSITIONING FACILITATED BY AN AIR FLOW

The structure is normalised, stabilised and well ribbed cast iron, supports the workpiece weight and the force generated by the grinding operation. Equipped with dead and live spindle.

The spindle rotates:

- on high precision ball bearings, guaranteeing restricted tolerance and maximum rigidity in the working;
- by means of a AC motor and the rpm adjustments are programmable on the operator panel;
- may be intermittently manual or automatic.

The workhead positioning on the table is facilitated by an air flow.



## WORKHEADS ROTATION 180°

Workhead rotates 90 degrees and the rotation can be:

- manual
- manually with DRO\*
- Automatically with Indexing 1° Hirth coupling \*
- Manually with Indexing 1° Hirth coupling \*

\*On request



SPINDLE ROTATION  
ON HIGH PRECISION BALL BEARINGS,  
GUARANTEEING RESTRICTED TOLERANCE  
AND MAXIMUM RIGIDITY

# TAILSTOCK

Machine models PT6 and MT6, are supplied standard with Hydraulic opening / closure and micrometric correction of the cylindricity

Machine models RT6 and ET6 are available in three different versions:

- manual opening (standard);
- hydraulic opening (on request);
- hydraulic opening / closure and micrometric correction of the cylindricity (on request).



# INTERNAL GRINDING

The machine ( on request ) may be equipped with Internal Grinding Attachment, which may be mounted in two versions:

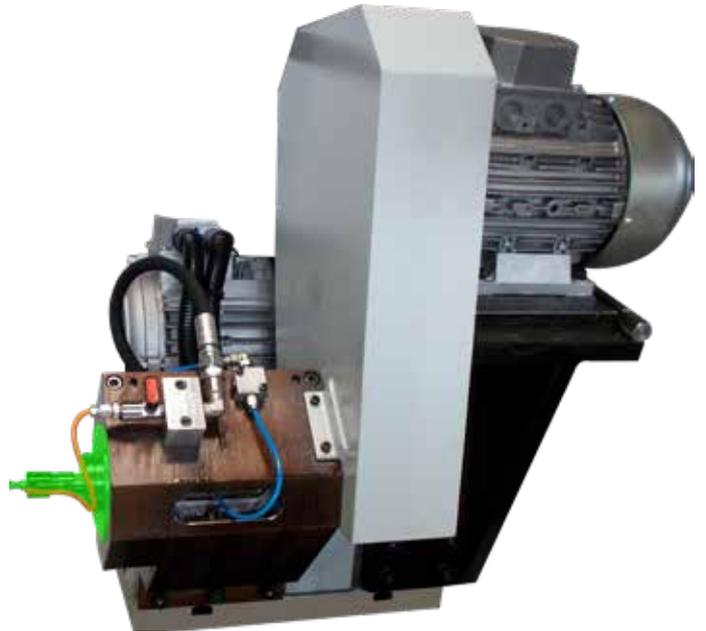
- drop down over wheel head
- on rear side of wheel head.

Robbi Group offers a large range of internal grinding spindles that can be :

- belt driven spindles up to 42,000 RPM
- electric spindles up to 120,000 RPM

LARGE RANGE OF  
QUILLS AND ATTACHMENTS  
ARE AVAILABLE

INTERNAL GRINDING SPINDLE  
MOUNTED  
ON REAR SIDE OF WHEEL HEAD



INTERNAL GRINDING SPINDLE  
MOUNTED  
DROP DOWN OVER WHEEL HEAD



# WHEEL DRESSING

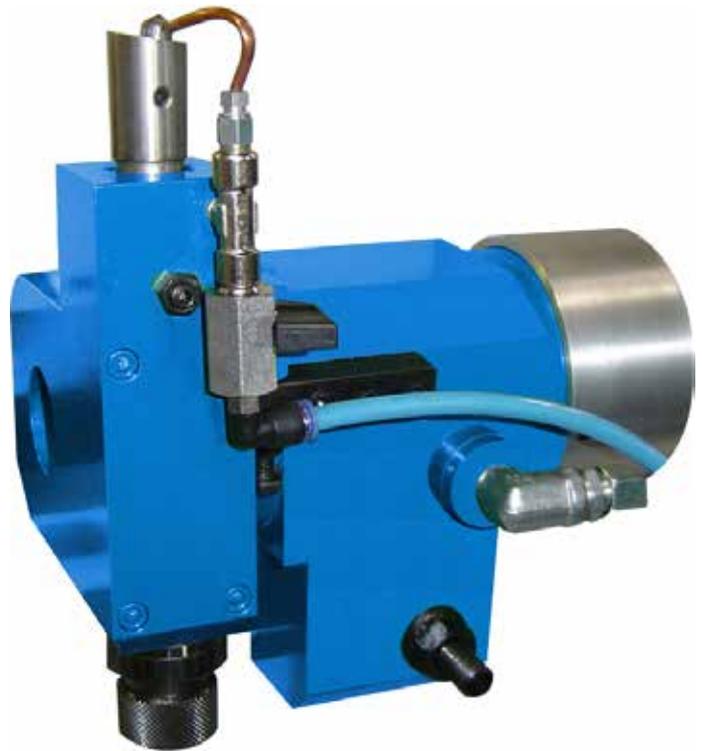
## CUSTOMIZABLE ACCORDING TO THE PROCESS REQUIRED

A well dressed grinding wheel is crucial to obtain a high-performance and high-quality grinding process. The wheel dresser for external grinding wheels can be mounted on the:

- table
- tailstock

The wheel dresser support can be:

- fixed
- tilting hydraulic



## DRESSING FIXED TOOLS OR HIGH FREQUENCY DIAMOND ROLLS

The machine can use for dressing:

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



# PROCESS CONTROL

## GRINDING WHEEL BALANCING

Continuously monitors the condition of the machine in real time and compensates any unbalance of the grinding wheel .

Grinding Wheel Balancing :

- improves the mechanical stability
- improves the surface quality, avoiding risks of facets , circularity defects errors and roughness
- allows to increase the peripheral speed of the grinding wheel
- increases the productivity
- reduces stress on the spindle bearings

## CONTACT CONTROL

The instant in which the grinding wheel comes into contact with the workpiece, is important to:

- reduce the cycle time
- minimise the 'gap' time, maximising the axis feeds

The analysis of the contact between grinding wheel-dresser, consents to obtain a perfect profile optimising the scrap.



DETECTS SUB-MICRON CONTACTS ("GAP")

MONITORS CONSTANTLY THE WORK

PREVENTS COLLISION ("ANTI-CRASH")

# IN PROCESS MEASURING SYSTEM

## WORKPIECE SETTING

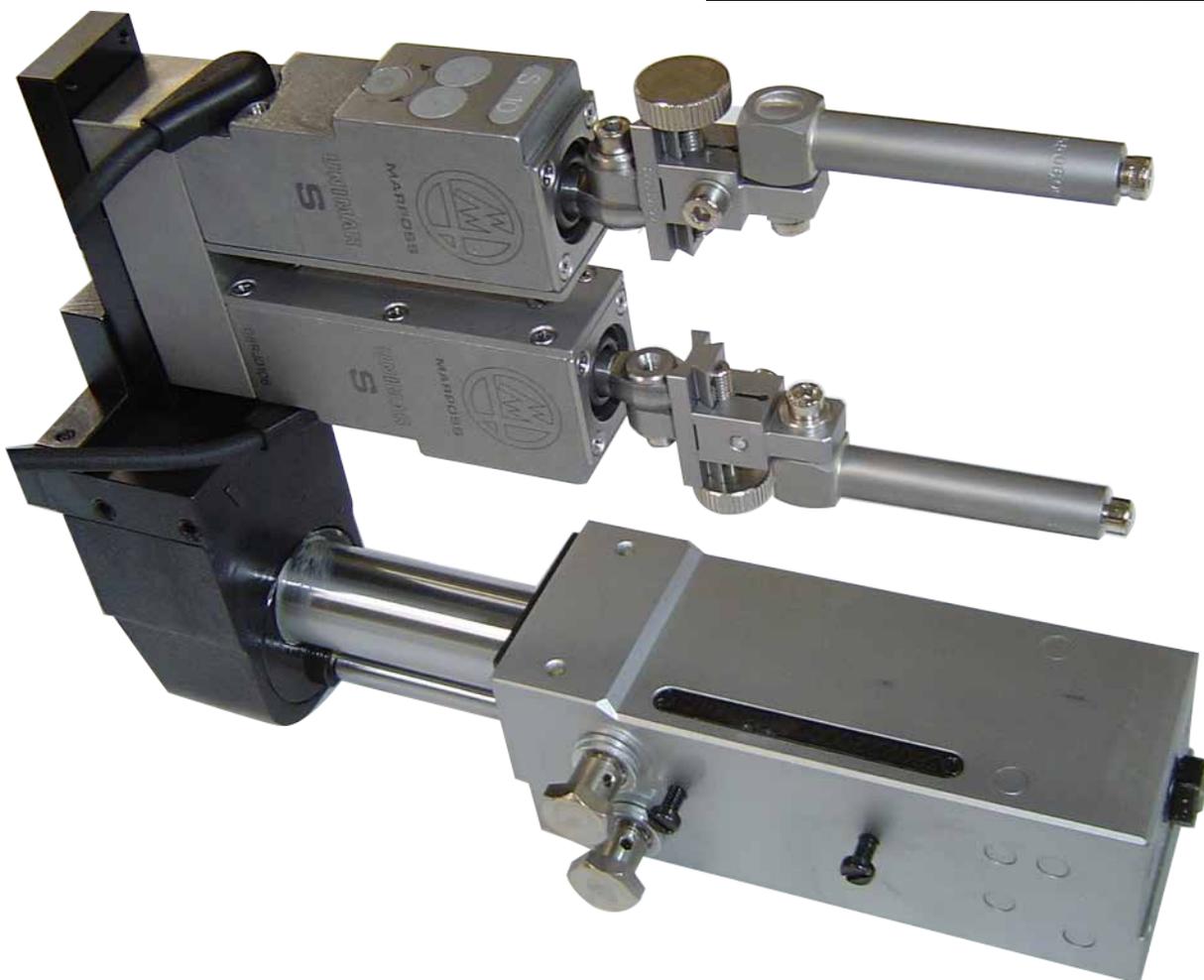
The use of a flagging device combined to the PLC control records the position of the workpiece in Z axis (table).

## IN PROCESS MEASURING SYSTEM

The use of measuring systems during the working, permits to grind components with high restricted tolerance.

The available methods are :

- Absolute measurement of diameters, with large ranges
- Measurement of small and large ranges, with reference master
- Control of continuous and interrupted surfaces (regular and irregular)
- Analysis of roundness and shape
- Measurement of the diameters: external, internal, thickness, scrap, taper, shoulder, etc.
- Automatic compensation of the in-process correction.



# DIGITAL FACTORY

OMICRON CNC  
GRINDING MACHINES  
ARE EQUIPPED WITH (Optional)  
MINDSPHERE  
SIEMENS

MORE PRODUCTIVITY

MORE QUALITY

DIGITALIZATION OF PRODUCTION PROCESS

The CNC machines can be integrated with software and with appropriate sensors to:

- digitize the production process
- analyze the working parameters
- verify the machine status

The CNC machines may be further customized (on request) to meet customer's production process requirements

ANALYSIS OF:

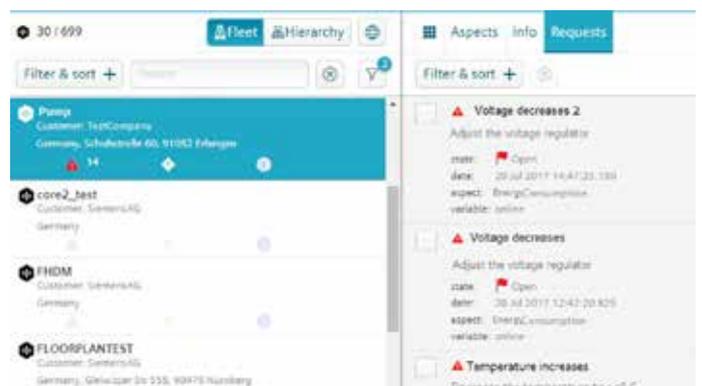
ACCELERATION

TEMPERATURE

SPEED

VIBRATIONS

- to monitor continuously the working conditions
- to be checked and serviced worldwide, safely
- to perform part programs from an external memory



# AT YOUR SERVICE SINCE 1936



*Robbi has operated in the machine tool market since 1936 and specialise in the manufacture of machines tailored to meet the more demanding needs of the customer's complex and more specialised demands.*

*Whilst maintaining competitive prices, Robbi have ensured their machines have stability and precision.*



*Robbi grinding machines, use the best technology and the most robust and reliable components available on the market in their build programme.*

*Robbi have a commitment to assist and help, proactively, its customers to ensure they maximise the efficiency of the machine.*



*Robbi, in fact, offers various service solutions, including the:*

- *development of manufacturing processes;*
- *replacement parts spare part programme,*
- *making parts available for older models,*
- *tailored operational training programs*
- *and maintenance training to maximise the features of grinding machines and maintain the Robbi Grinders longevity.*



*Understanding the needs of our customers we are offer the best solutions and services that increase their return on productivity thus improving our customers return on his investment.*

*Ideas that may improve our business are always appreciated from customers.*

*If there's anything we can do to improve your experience with Robbi, please let us know.*

*Robbi have a commitment to ensure all customers are completely satisfied.*

*Choose Robbi precision for increased productivity and a faster return on your investment.*

*Call us today, we've have a solution for your grinding application.*



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