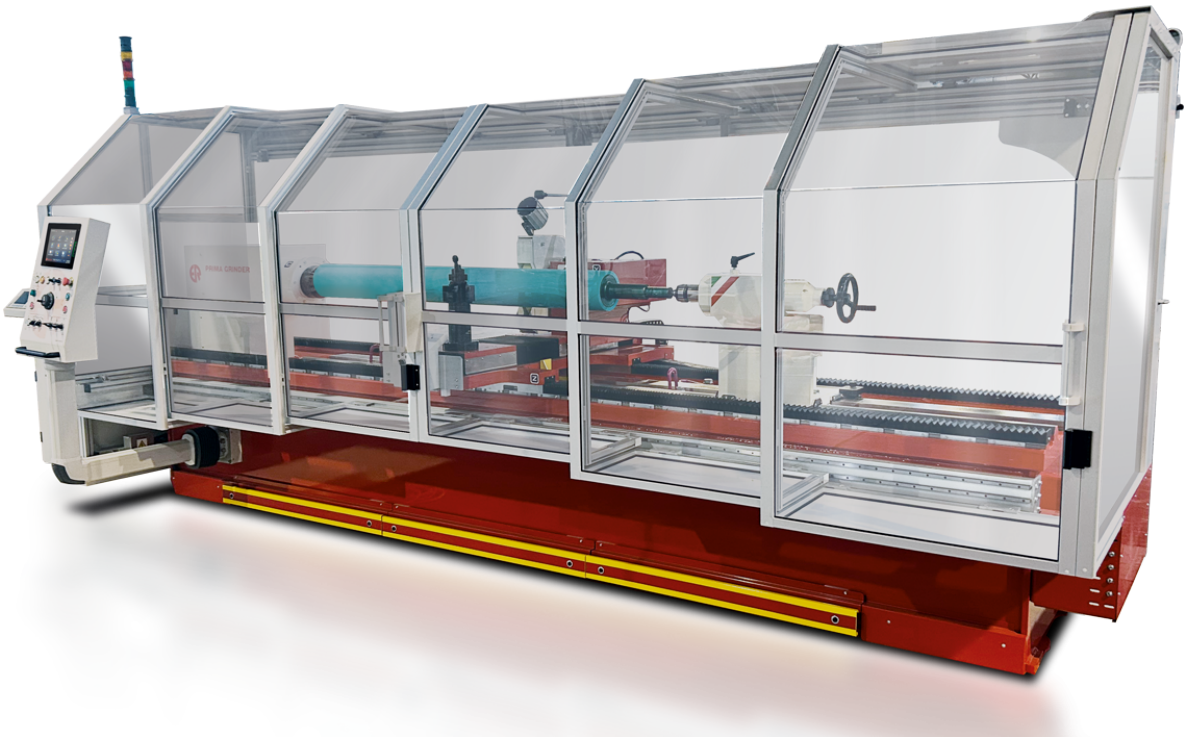
Prima PLC



compact design

customizable control

EC Norm compliant

management operations

mechanical resistance

more productivity

rubber and polymer

Rossini Software allows a communication and data management with the customer's management data system according to the specs of INDUSTRY 4.0 (Italy). PRIMA PLC makes lathing and precision grinding of the external surface, steps, roller/sleeve facing and the automatic wheel adjustment cycle an easy task. The grinding wheels and lathing tool movement on two independent axis and the horizontal moving function is controlled through encoders applied on motors with specific automatic handling software. The PLC allows a seamless work flow operation on the roller/sleeve and has a memory function to recall set parameters for repeat jobs (series production). Standard grinding profiles: Parallel profile (standard), tapered profile, trapezoidal profile, crowned (cambered) surface convex or concave (with specific grinding wheels shapes), stepped shaping, edge trimming.

structure

- Solid structure in painted steel
- Linear precision guides with a reduced range for working head sliding
- Two independent working heads for roughing and grinding
- Quality mechanical and electronic parts
- 10.4" touch screen panel with customisable software
- Tools developed to guarantee high production yield

specifications

Machine colour	Red RAL3000 and White RAL9002 Other colours available on request
Length [mm] Prima Mod. 200 - 250 - 300 - 350 - 400	4.300 - 4.800 - 5.300 - 5.800 - 6.300
Width [mm]	1.700
Height [mm]	1.650
Weight [Kg] Prima Mod. 200 - 250 - 300 - 350 - 400	5.000 - 5.500 - 6.000 - 7.000 - 7.500
Useful distance between the points [mm] Prima Mod.200 - 250 - 300 - 350 - 400	2.000 - 2.500 - 3.000 - 3.500 - 4.000
Maximum table stroke [mm] Prima Mod. 200 - 250 - 300 - 350 - 400	2.000 - 2.500 - 3.000 - 3.500 - 4.000
Height of points [mm]	450
Maximum diameter of the rotating piece [mm]	400
Maximum diameter of the piece to grind [mm]	350
Maximum weight of the piece assembled between the points [Kg]	350
Piece rotation speed [RPM]	0 - 500
Grinding wheel mandrel rotation speed [RPM]	1.650
Tailstock Taper Cut	Morse 5
Grinding wheel advancement range [mm]	0 - 200
Undercutting tool advancement range [mm]	0 - 200
Grinding wheel advancement hand-wheel minimum resolution for manual command [mm]	0,001
Abrasive grinding wheel drive	4 kW AC 3Ph
Piece holder rotating head drive	Brushless 25 [Nm]
Drives: movement of the head-support trolley/ movement of the grinding wheel/tool axes	3 x Brushless 8,4 [Nm]
Accessories included	1 Lathe carrier per type D.35-D.50-D.80-D.110 [mm] - Total 4 Pieces

	1 Abrasive grinding wheel 400x127x40 [mm] with flange, shaft for grinding wheel balancing
	1 Round knife tool for roughing and tool-holder
	1 Tool for abrasive grinding wheel dressing and tool-holder
	1 Fixed tailstock - 1 rotating tailstock
Optional equipment	Manual equipment for static balancing of the abrasive grinding wheels
	Bellows in special rubber-coated, oil-proof cover for the linear guides
	Manual, four-position, rotating tool-holder tower
	Configuration for working with water (to order with the machine and not retrofittable); includes a single action purification system with filtration belt in non-woven fabric, bellows in special, rubber-coated, oil-proof cover for the guides l
	Internet connection module for remote support

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