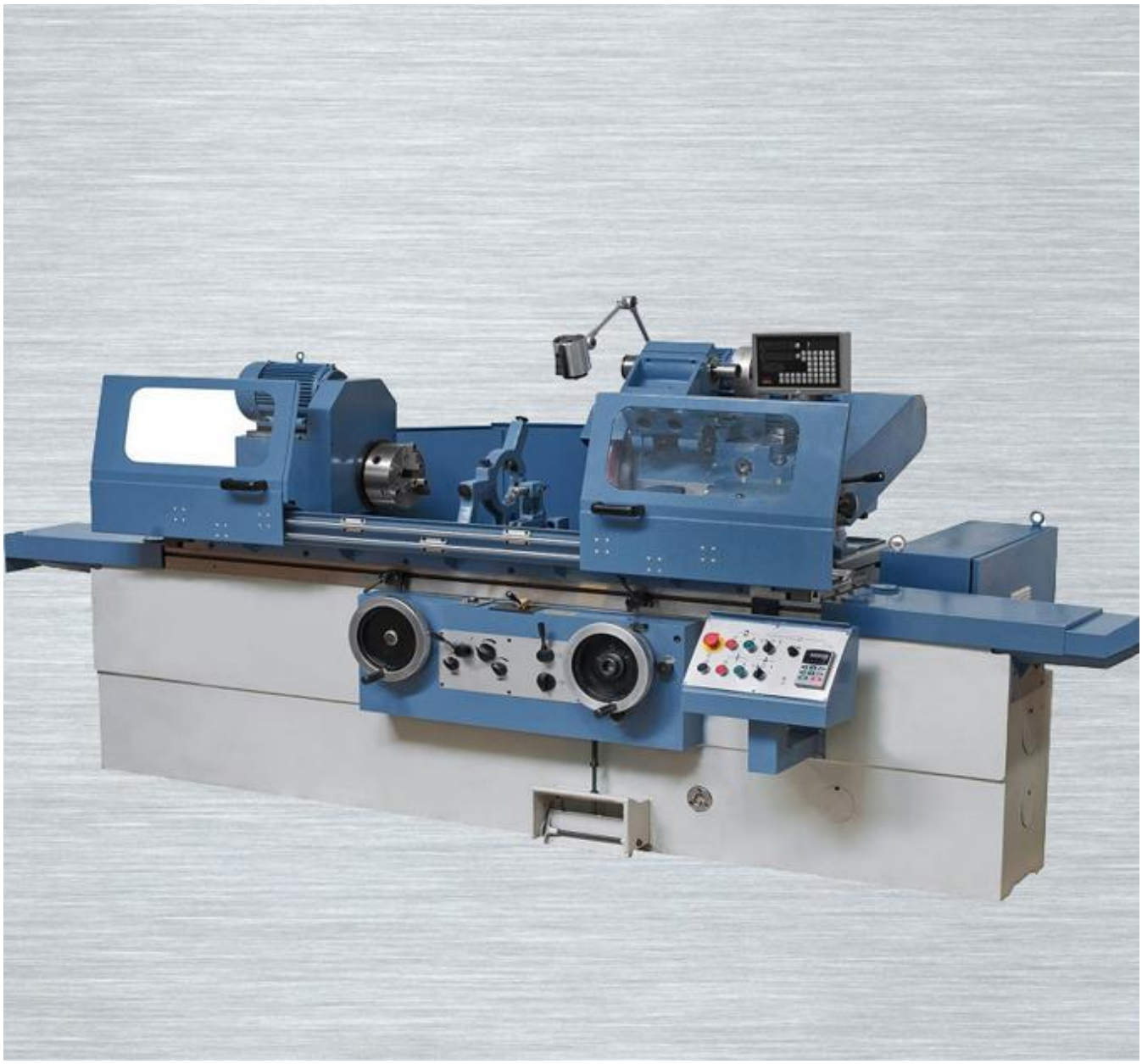
High Precision Universal Conventional Cylindrical Grinding Machine for Inside and Outside Machining



Such kind of MM-RSM1000C high precision universal cylindrical grinding machine is suitable for external and internal grinding of work-pieces up to 320 mm large diameter and Maximum Grinding Length is up to 1000 mm. This Universal Cylindrical Grinder is ideal for processing individual parts as well as for small series production and offer additional flexibility with the internal grinding device. Part of the spare parts is the internal grinding device, increasing the range of applications significantly. The popular model of universal conventional grinder machine for machine construction, mould and tool making and production of industrial series.

Main Feature :

Convincing Arguments : Quality, Efficiency and Price

- Internal Grinding and External Grinding
- Maximum Grinding Length 1000 mm, Maximum Outside Grinding Diameter 320 mm
- Maximum Load Work-piece Weight 150 KGS, Center Height 180 mm
- Automatic feed in 2 steps – limited by an adjustable stop
- The grinding spindle motor provides up to 5500W power for continuous operation
- Heavy machine frame to support large workpieces
- Hydrostatic bearings for high surface quality
- Integrated rapid feed on Z-axis with manual return
- Swiveling headstock for conical grinding of short parts
- Large machine bed in a heavy design accommodates work-pieces with longer grinding length
- When conical grinding, table can be swiveled to either side and exactly positioned by using scale
- Oil film between bearing and spindle keeps vibrations at a minimum level, hence achieving outstanding results and top accuracy
- Precisely balanced spindle head and solid grinding head guarantee extraordinary results
- Strong reinforcements and solidly designed panels of the machine base makes it resistant to temperature fluctuations and deformations
- Spindle is mounted from both sides and features adjustable sliding bearings with three segments
- Hydrodynamic bearing of spindle, therefore no contact between spindle and bearing
- Longitudinal table feed can set to automatic mode - hydraulically driven or manual - by handwheel
- Stepless feed adjustments with option of programmable hold time at end of each table movement
- Hydraulic or manual repositioning of grinding spindle stock
- Guideways in X-axis and Y-axis are precisely constructed and hand-polished
- Longitudinal table guide and cross guide of grinding headstock each feature a V-guide and flat guide
- Certificate of Original (CO, FORM A, FORM E, FORM F)

Technical Data :

Product Name:	High Precision Universal Cylindrical Grinding Machine
Product Item:	MM—RSM 1000C
Center Height :	180 mm
Grinding Length :	1000 mm
Maximum Work-piece Weight :	150 KGS
Outside Grinding Diameter :	8 — 320 mm
Inside Grinding Diameter with rest :	35 — 100 mm
Inside Grinding Diameter without rest :	30 — 100 mm
Inside Grinding Depth :	125 mm
Table Swivel Range (max.) :	-3° to +7°
Table Longitudinal Travel (max.) :	1100 mm
Headstock	
Work Spindle Speed :	25 — 220 RPM
Working Spindle Taper :	MT4
Working Headstock Swivel Range :	0°– 45°
Grinding Headstock	
Grinding Spindle Speed :	1670 RPM
Grinding Wheel Dimensions :	Φ 400 X 50 X Φ 203 mm
Inside Grinding Spindle Speed :	10000 RPM
Grinding Headstock Swivel Range :	30°
Grinding Head Travel :	250 mm
Feed	
Table Feed :	0.1 – 4 m / min (infinitely variable speed)
Feed per Scale Division :	0.0025 mm
Tailstock	
Tailstock Taper :	MT4
Travel of Tailstock Sleeve :	25 mm
Motor Power	
Motor Rating – Grinding Spindle :	5.5 KW
Motor Rating – Inside Grinding :	1.1 KW
Motor Rating – Headstock :	1.5 KW
Motor Rating – Hydraulic Pump :	0.75 KW
Gross Weight :	3700 KGS
Packing Size :	3700 X 1900 X 1500 mm
Standard Accessory :	Coolant System, 3-Jaw Chuck, Wheel Flange, Open Rest, Machine Light, Wheel Balancing Mandrel, Grinding Wheel Dresser, Internal Grinding Equipment, Tools and Toolbox