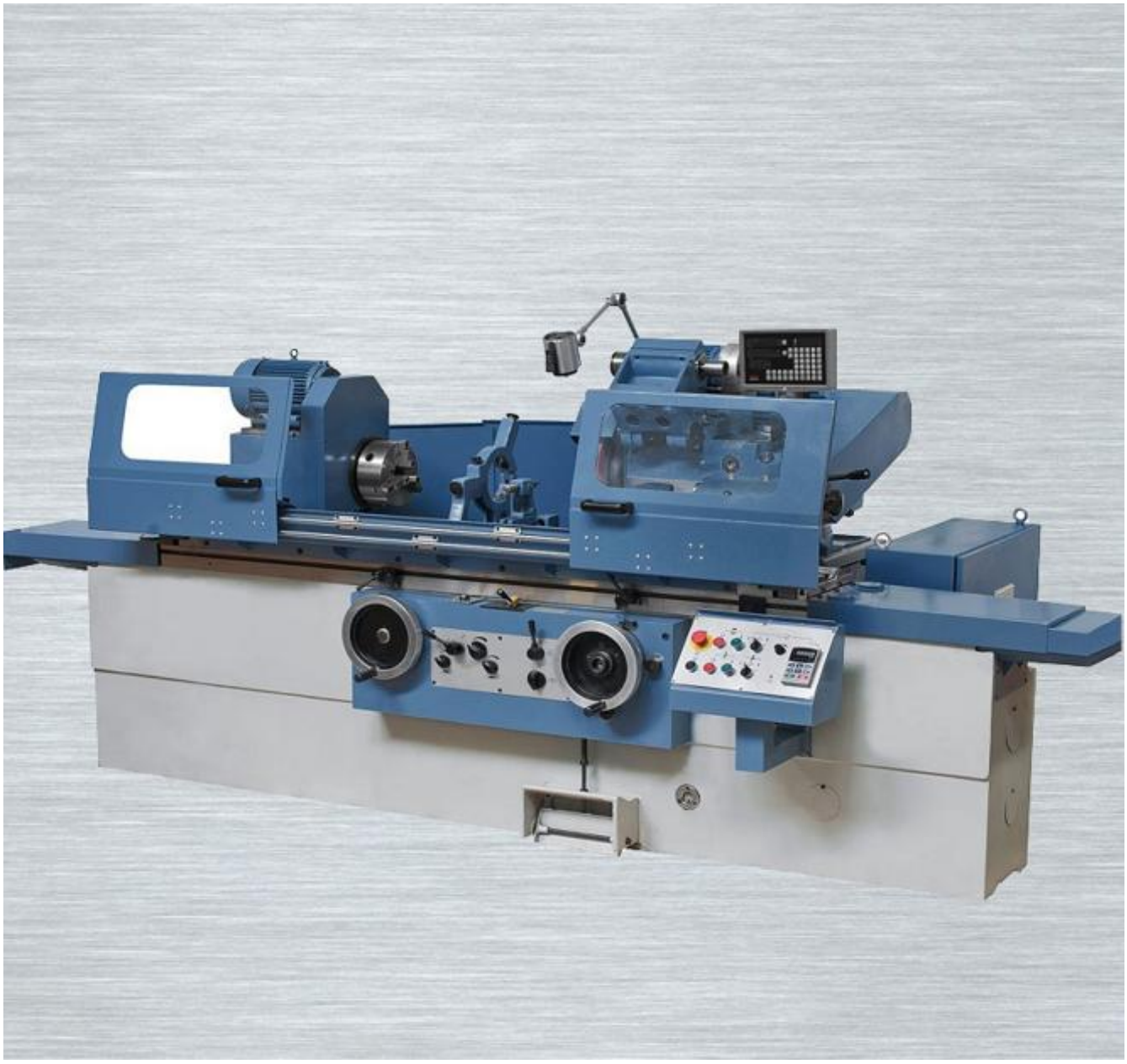
High Precision Conventional Universal Cylindrical Grinding Machine for Internal and External Grinding



Such kind of MM-RSM1500C heavy duty universal cylindrical grinding machine is suitable for internal and external grinding of large work-pieces up to 320 mm and Maximum Grinding Length is up to 1500 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. The classic design with large machine bed, ground guides and powerful drives for the work spindle, grinding spindle and hydraulic unit, make these machines is cost-effective solution for the precision grinding of larger workpieces.

Main Feature :

Convincing Arguments : Quality, Efficiency and Price

- Internal Grinding and External Grinding
- Maximum Grinding Length 1500 mm, Maximum Outside Grinding Diameter 320 mm
- Maximum Load Work-piece Weight 150 KGS, Center Height 180 mm
- Heavy machine frame to support large workpieces
- Swiveling headstock for conical grinding of short parts
- Integrated rapid feed on Z-axis with manual return
- Hydrostatic bearings for high surface quality
- The grinding spindle motor provides up to 5500W power designed for continuous operation
- 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
- Hydraulic or manual repositioning of grinding spindle stock
- Guideways in X-axis and Y-axis are precisely constructed and hand-polished
- 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
- 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 1500C
Center Height :	180 mm
Grinding Length :	1500 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 +6°
Table Longitudinal Travel (max.) :	1600 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 :	4300 KGS
Packing Size :	4700 X 1900 X 1580 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