Heavy Duty Universal Cylindrical Grinding Machine for External and Internal Machining with Maximum Load Work-piece 1000 KGS



Such kind of MM-RSM1450B is the high precision Universal Cylindrical Grinding Machine ideal for External and Internal grinding of long and heavy duty work-pieces. It is suitable for processing individual parts as well as for small series production and offer additional flexibility with the internal grinding device. This classic design with large machine bed, ground guides, and powerful drives for the work spindle, grinding spindle and hydraulic unit, make this grinding machine a cost-effective solution for the precision grinding of larger work-pieces up to 1000 KGS.

Main Feature :

Convincing Arguments : Quality, Efficiency and Price

- Universal Cylindrical Grinding Machine for External and Internal Machining
- Maximum Grinding Diameter 500 mm and Maximum Grinding Length up to 4000 mm
- Maximum Loading Work-piece Weight up to 1000 KGS
- The grinding spindle motor provides up to 7.5 KW power for continuous operation
- The Table Longitudinal Travel is Hydraulically at Variable Speed or operated by hands
- The work-piece, External and Internal Grinding wheels, Hydraulic Pump and Coolant System are all driven separately by individual motors.
- The structure of work-head spindle uses rolling and sliding bearings with clearance adjustable. It is suitable for various grinding between centers or on chucks.
- The work-head can swivel at 90 degree, and by swiveling the work-head or work-table or wheel-head, the external and internal surfaces of work-piece with different taper can be ground.
- Large machine bed in a heavy design accommodates work-pieces with longer grinding length
- Longitudinal table feed set to automatic hydraulically driven or manual by hand-wheel
- The work-table and wheel-head guide-ways are hydrostatically lubricated. The grinding wheel spindle runs in a pair of particular journal bearings, each consists of three tilting segmental shoes. The Internal Grinding Attachment bracket on wheel-head can turn down for grinding internal parts.
- Proven and extremely rigid machine frame made of premium cast-iron
- Precisely balanced spindle head & solid grinding head make extraordinary results at any operation
- Certificate of Original (CO, FORM A, FORM E, FORM F)

Technical Data :

Product Name :	Heavy Duty Universal Cylindrical Grinding Machine
Product Item :	MM-RSM 1450B
Center Height :	270 mm
Distance Between Centers :	1500 / 2000 / 3000 / 4000 mm
Outside Grinding Diameter (O.D) :	Φ 25 — Φ 500 mm
Inside Grinding Diameter (I.D) :	Φ 30 — Φ 200 mm
Max. Grinding Length (O.D) :	1500 / 2000 / 3000 / 4000 mm
Max. Grinding Length (I.D) :	320 mm
Max. Work-piece Weight :	1000 KGS
Table Longitudinal Travel (max) :	1600 / 2100 / 3100 / 4100 mm
Table Feeding Speed :	0.1— 3 m / min
Feed per Hand-wheel Rotation :	5 mm
Headstock	
Work Spindle Speed :	20 — 224 RPM
Working Spindle Taper :	MT6
Working Headstock Swivel Range :	+90 °
Grinding Headstock	
Grinding Spindle Speed :	1330 RPM
Grinding Wheel Size :	Φ 500 X 75 X Φ 305 mm
Grinding Head Swivel Range :	30°
Grinding Head Travel :	250 mm
Accuracy	
Roundness :	2.5 μm
Surface Roughness :	0.32 μm
Diameter Uniformity (longitudinal section):	8 μm
Tailstock	
Tailstock Taper :	MT6
Travel of Tailstock Sleeve :	70 mm
Motor Power	
Main Motor (for Grinding Spindle) :	7.5 KW
Motor Rating for Headstock :	4 KW
Gross Weight :	15180 KGS (MM-RSM 1450B X 3000)
Packing Size :	10450 X 2230 X 2250 mm (MM-RSM 1450B X 3000)
Standard Accessory :	Coolant System, Open Rest, Machine Lamp, Wheel Hub, Wheel Balancing Mandrel, Internal Grinding Equipment, Vibration Damper, Tools and Toolbox