Conventional Universal Cylindrical Grinding Machine – Maximum Reliability for Outside and Inside Grinding of Cylindrical and Conical Parts



Such kind of MM-URS500N universal cylindrical grinding machine is suitable for outside grinding operations up to 200mm in diameter and the Max. Grinding Length 500 mm. This grinder machine comes complete with an inside grinding device to increase the application range significantly. Most commonly this model is used in machine construction, tool and mould shaping and in the production of small series.

Main Feature :

Convincing Arguments : Quality, Efficiency and Price

- Max. Grinding Length 500 mm, Max. Grinding Diameter 200 mm, Max. Work-piece Weight 60 KGS
- Proven and extremely rigid machine frame made of premium cast-iron
- Table can be tilted for conical grinding operations and scale allows adjustment to desired position
- Spindle stock can be swivelled 180° for inside grinding operations
- Diligent design and production create good conditions for excellent grinding and sanding results
- Main spindle is mounted hydro-dynamically – oil film prevents contact between spindle and bearing
- Longitudinal table guide and grinding spindle stock cross guide feature V- and flat guiding each
- Strong reinforcements walls make machine base resistant to temperature fluctuations & deformations
- Oil film between spindle and bearing reduces vibrations to achieve top results and high accuracy
- Step-less feed adjustment with selective programmable stop at end of each table movement
- Precisely adjusted spindle head to achieve top processing results at various grinding operations
- Easy change-over from outside grinding to the solid and powerful inside-grinding system
- Grinding spindle with segmented high-precision bearing, adjustable and low maintenance
- Precisely polished and manually finished guide-ways in x- and y-axis
- Hydraulic or manual resetting of grinding spindle stock
- Solid grinding spindle stock suitable for various grinding operations
- Longitudinal movement of table is either manually by hand-wheel or automatically by hydraulic feed
- Grinding spindle features bearings on both sides and adjustable sliding flat grids
- Certificate of Original (CO, FORM A, FORM E, FORM F)

Technical Data :

Product Name:	Conventional Universal Cylindrical Grinding Machine
Product Item:	MM-URS 500N
Center Height :	135 mm
Grinding Length :	500 mm
Max. Work-piece Weight :	60 KGS
Grinding Diameter (outside) :	8--200 mm
Inside Grinding Diameter :	13--100 mm
Inside Grinding Depth :	125 mm
Table Swivel Range (max.) :	+3° to -9°
Table Longitudinal Travel (max.) :	650 mm
Table Hydraulic Feed :	0.1 – 4 m / min
Table Travel / Hand Turn :	6 mm / rev
Headstock	
Work Spindle Speeds :	25--220 RPM (variable)
Spindle Taper :	MT4
Tilting Range Spindle :	90 °
Grinding Headstock	
Grinding Spindle Speed :	1670 RPM
Speed Inside Grinding Spindle :	20000 RPM
Grinding Wheel Dimensions :	Φ 400 X 50 X Φ 203 mm
Travel of Grinding Head :	200 mm
Scale Division :	0.005 mm
Tilting Range Grinding Headstock :	+/- 30°
Tailstock	
Tailstock Taper :	MT4
Travel of Tailstock Sleeve :	35 mm
Motor Power	
Motor Rating Grinding :	4 KW
Motor Rating Inside Grinding :	4 KW
Motor Rating Working Spindle :	0.75 KW
Motor Rating Hydraulic Pump :	0.75 KW
Motor Rating Coolant Pump :	0.125 KW
Total Power Consumption :	5.625 KW
Gross Weight :	2550 KGS
Packing Size :	2550 X 1650 X 1550 mm
Standard Accessory :	Coolant System, 3-Jaw Chuck, Wheel Flange, Open Rest, Machine Light, Wheel Balancing Mandrel, Grinding Wheel Dresser, Quill Shaft for Internal Grinding, Tools and Toolbox