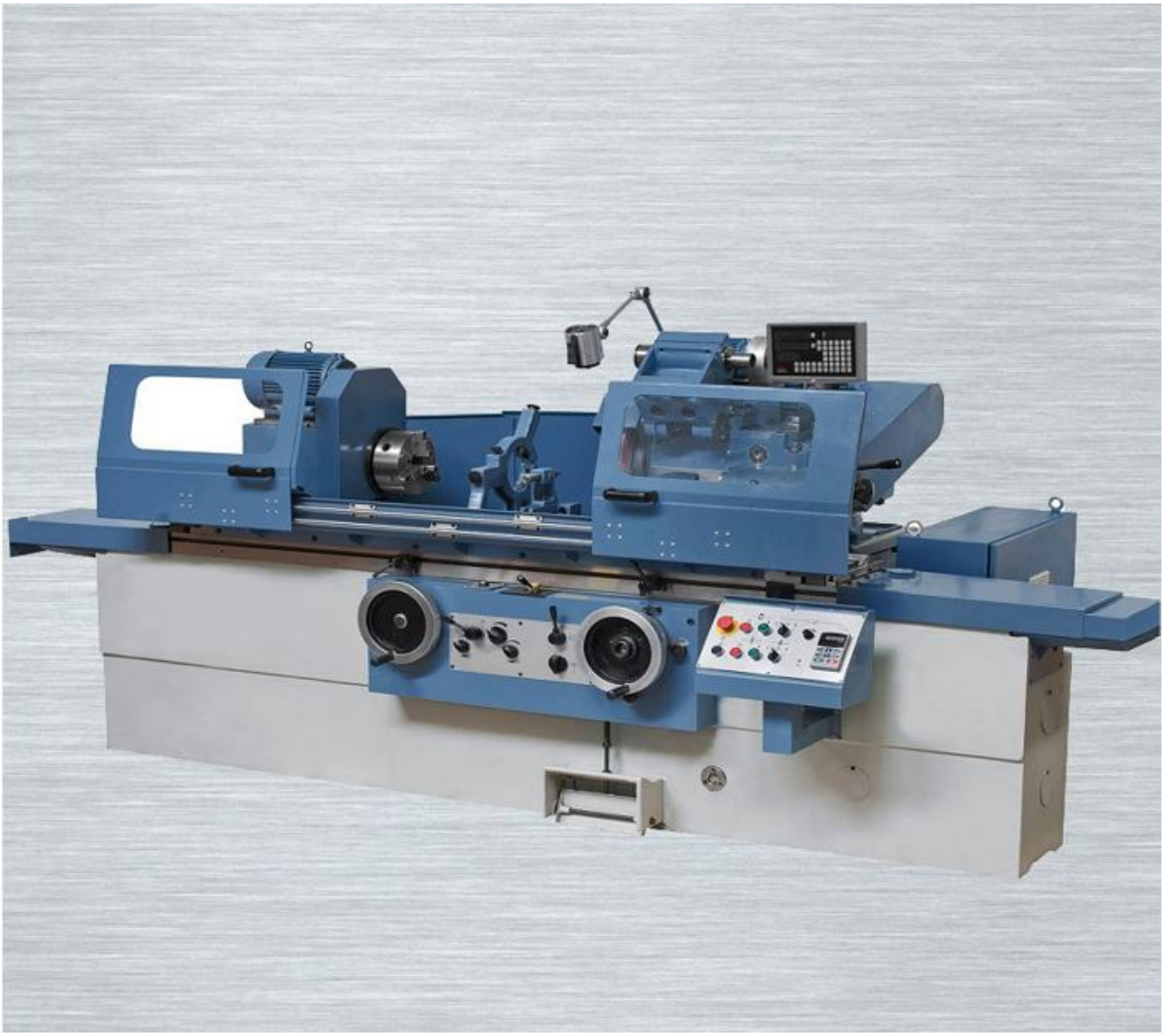
# Heavy Duty Conventional Universal Cylindrical Grinding Machine with Internal and External Grinding



Such kind of MM-RSM3000C high precision universal cylindrical grinding machine is suitable for internal and external grinding of work-pieces up to 320 mm in diameter and Maximum Grinding Length is up to 3000 mm. This Universal Cylindrical Grinder is perfect for processing individual workpiece 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 industry workshops and factories.

## Main Feature :

### Convincing Arguments : Quality, Efficiency and Price

- Internal Grinding and External Grinding
- Maximum Grinding Length 3000 mm, Maximum Grinding Diameter 320 mm
- Maximum Load Work-piece Weight 150 KGS, Center Height 180 mm
- Heavy machine frame to support large workpieces
- Hydrostatic bearings for high surface quality
- Integrated rapid feed on Z-axis with manual return
- The grinding spindle motor provides up to 7500W power for continuous operation
- Automatic feed in 2 steps – limited by an adjustable stop
- Swiveling headstock for conical grinding of short parts
- The robust feed valve allows very precise micro-feed control on the X axis, including a user-adjustable dwell time at the end of the longitudinal table travel
- Automatic feed in 2 steps – limited by an adjustable stop
- Wide precision-ground guideways ensure maximum accuracy across the entire workpiece length and accommodate high workpiece weights
- Heavy-duty spindle head can swivel to the left and right, the work spindle head also can swivel
- Integrated rapid feed on Z-axis with manual return
- Longitudinal table guide and cross guide of grinding headstock each feature a V-guide and flat guide
- The table features large dimensions and swivels in two directions - table movement via hand-wheel or automatically via linear hydraulic feed
- The grinding spindle features hydrostatic bearings and provides for maximum precision and surface quality, plus extraordinary tool life and rigidity
- Stepless feed adjustments with selective programmable hold time at the end of each table movement
- The powerful grinding spindle motor is designed for continuous 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 3000C |
| Center Height : | 180 mm |
| Grinding Length : | 3000 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.) : | -2° to +3° |
| Table Longitudinal Travel (max.) : | 3100 mm |
| **Headstock** | |
| Work Spindle Speeds : | 25 — 220 RPM |
| Working Spindle Taper : | MT4 |
| Working Headstock Swivel Range : | 0 °— 45 ° |
| **Grinding Headstock** | |
| Grinding Spindle Speed : | 1330 RPM |
| Grinding Wheel Dimensions : | Φ 500 X 50 X Φ 203 mm |
| Inside Grinding Spindle Speed : | 10000 RPM |
| Grinding Headstock Swivel Range : | 30° |
| Grinding Head Travel : | 200 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 : | 7.5 KW |
| Motor Rating – Inside Grinding : | 1.1 KW |
| Motor Rating – Headstock : | 1.5 KW |
| Motor Rating – Hydraulic Pump : | 0.75 KW |
| Gross Weight : | 8680 KGS |
| Packing Size : | 7650 X 1950 X 1650 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 |