

Conventional Cylindrical Grinders

RSM 500 A



SKU : 302430

The machine frames of the RSM series are characterized by a heavy design and long, supporting guideways. The table can be swiveled and the finely adjustable hydraulic feed moves smoothly in the longitudinal direction. A large scale ring on the handwheel of the X-axis facilitates precise infeed and the zero stop guarantees compliance with the desired dimension. The standard position indicator with linear scales is used to check the actual values. The headstock is rotated 180 degrees for internal grinding. An extensive accessory package is standard.

- Internal and external grinding
- Hydrostatic bearings for high surface quality
- Swiveling headstock for conical grinding of short parts
- Integrated rapid feed on Z-axis with manual return
- Extensive package of standard accessories

TECHNICAL SPECS

WORKING AREA

Center height	135 mm
Workpiece length (max.)	640 mm
Grinding length	500 mm
Grinding diameter	8 mm - 200 mm
Inside grinding diameter without rest	25 mm - 100 mm
Workpiece weight between centers (max.)	50 kg
Inside grinding depth	125 mm
Table swivel range (max.)	-3° / +9° R / L
Wheel speeds	38 m/s

FEED

Table feed, infinitely variable	0.1 m/min - 4 m/min
Feed per scale division X-axis	0.005 mm

HEADSTOCK

Work spindle speeds	25 1/min - 380 1/min
Working headstock swivel range	0-45°
Spindle taper	4 MT

GRINDING HEADSTOCK

Inside grinding spindle speed	16000 1/min
Grinding headstock swivel range (r+l)	± 30°

TAILSTOCK

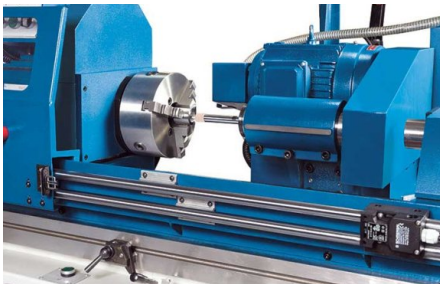
Tailstock taper	4 MT
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DRIVE CAPACITY

Total power consumption	5.625 kVA
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MEASURES AND WEIGHTS

Grinding wheel dimensions	400 mm x 50 mm x 203 mm
Grindstone dimensions, inside grinding (max.)	50 mm x 40 mm x 16 mm
Grindstone dimensions, inside grinding (min.)	45 mm x 35 mm x 10 mm
Overall dimensions (length x width x height)	2.5 m x 1.6 m x 1.5 m
Weight	2500 kg



Grinding headstock can be rotated 180° to change from inside to outside grinding

PRODUCT DETAILS

- Proven and extremely rigid machine frame made of premium cast-iron - this machine's high intrinsic weight, diligent design and production create optimum conditions for excellent grinding and sanding results
- Hydraulic linear feed features very precise, infinitely variable micro-feed
- High-precision guideways of linear and transverse movement consisting of combined V-guides and box ways
- Hydraulic adjustment of the grinding headstock simplifies set-up, workpiece exchanges and reduces downtime
- Grinding spindle with segmented high-precision bearing, adjustable and low maintenance
- Work spindle speeds are infinitely variable and can be easily adjusted and optimized during the machining process
- Machine table swivels for taper grinding
- Hydraulic tailstock with foot switch

STANDARD EQUIPMENT

2-axis position indicator X.Pos 3.2
Internal grinding equipment
3-jaw chuck Ø 200 mm
Chuck flange
Balancing station
Balancing mandrel
Dress equipment
Center point
Grinding wheel flange
Coolant system
Open rest
Closed rest
Work lamp
Operating tools
Operator instructions
Drivers