

Conventional Grinding Machines

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 X-axis with manual return
- Extensive package of standard accessories

TECHNICAL SPECS

WORKING AREA

Center height	5 in
Workpiece length (max.)	25 in
Grinding length	20 in
Grinding diameter	0.3 in - 7.9 in
Inside grinding diameter without rest	1 in - 3.9 in
Work piece weight between centers (max.)	110 lbs
Inside grinding depth	4.9 in
Table swivel range (max.)	-3° / +9° R / L
Wheel speeds	1482 in/s

FEED

Table feed, infinitely variable	0.33 fpm - 13.08 fpm
Feed per scale division X-axis	0.000197 in

HEADSTOCK

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

GRINDING HEADSTOCK

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

TAILSTOCK

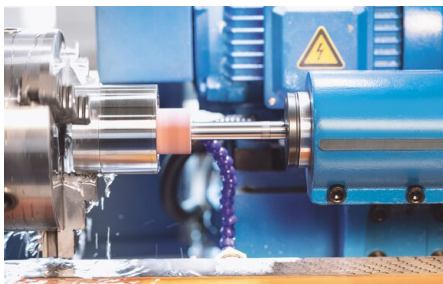
Tailstock taper	4 MT
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DRIVE CAPACITY

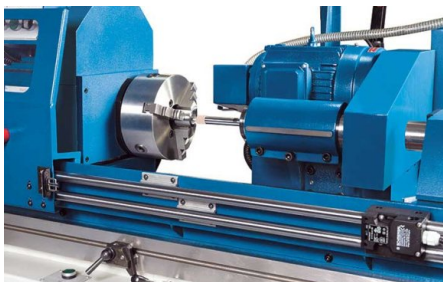
Total power consumption	5.625 kVA
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MEASURES AND WEIGHTS

Grinding wheel dimensions	15.75 in x 1.97 in x 7.99 in
Grindstone dimensions, inside grinding (max.)	2 in x 1.6 in x 0.6 in
Grindstone dimensions, inside grinding (min.)	1.8 in x 1.4 in x 0.4 in
Overall dimensions (length x width x height)	99 in x 63 in x 60 in
Weight	5500 lbs



Allows inside grinding depths up to 4.9"



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



The maximum inside grinding diameter is 3.94"



The hydraulic linear feed is infinitely variable and micro-adjustable

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
- Infinitely variable hydraulic linear 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 7.87"
 Chuck flange
 Balancing station
 Balancing mandrel
 Truing feature
 Center point
 Grinding wheel flange
 Coolant system
 Open rest
 Closed rest
 Work lamp
 Operating tools
 Operator instructions
 Drivers