



# Conventional Cylindrical Grinders

## RSM 800



### SKU : 370150

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	5 in
Workpiece length (max.)	37 in
Grinding length	31 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° / +8° R / L
Wheel speeds	1365 in/s

### FEED

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

### HEADSTOCK

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

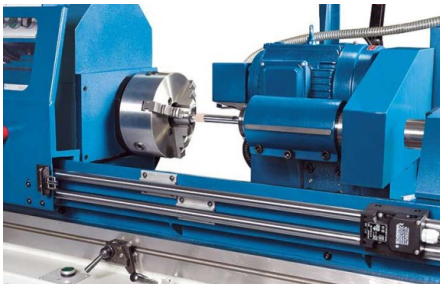
Tailstock taper	4 MT
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### DRIVE CAPACITY

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.)	1.4 in x 1.8 in x 0.4 in
Overall dimensions (length x width x height)	119 in x 63 in x 60 in
Weight	6600 lbs



*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
- 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  
Drivers  
Work lamp  
Operating tools  
Operator instructions