



RSM1500/320 - Universal

Main Applications and Structural Features

- The grinding machine series, for production in batch, is suitable for grinding outer and inner cylinders, outer and inner cones, as well as axial end faces. It has features of high accuracy, good rigidity, high grinding efficiency, easy operation, etc.
- $\Phi 320$ Series grinding machines have been developed into diversified series products on the principle of modular design.
- Use of enlarged spindles and bearings of grinding wheels, greater motor power, up to $\Phi 500$ mm grinding wheels improve grinding efficiency.
- Grinding wheel head with automatic cyclic feed provides four selecting modes: left feed, right feed, double feed and no feed.
- Arbitrary angular adjustments of headstock within anticlockwise 90° and grinding wheel head within $\pm 30^\circ$ permit the machines to grind bigger outer and inner-cylindrical workpieces.
- Turning down the internal grinding carriage on the guard cover of grinding wheel head allows inner-cylindrical workpieces to be ground. 6 Sets of inner grinding rods are available for selective use.
- Electrical and hydraulic interlocks make all the moving parts offer safe and reliable movement.

Specifications and Technical Parameters:

	$\Phi 8 \sim 320$ mm
Range of grinding O.D	
Range of grinding I.D	$\Phi 30 \sim 150$ mm
Max. workpiece weight	150kg
Maximum grinding length	1000/1500/2000/3000mm
Maximum grinding depth	125mm
Center height	180mm
Maximum travel of worktable	1100/1600/2080/3100mm
Hydraulic traverses speed	0.1~4 m/min
Swivel range of worktable	$-3^\circ \sim +7^\circ / -3^\circ \sim +6^\circ / -2^\circ \sim +3^\circ / -2^\circ \sim 3^\circ$
Maximum peripheral speed of grinding wheel	35m/s
Maximum diameter of grinding wheel	$\Phi 500 \times 50 \times \Phi 203$ mm
Spindle speed of work-spindle	25,50,75,110,150,220r/min
Taper of moving wheel head	NO.4 moshi
Total power motor	9kw
机床外形尺寸 Overall dimensions of the machine	4900×1810×1515mm 5800×1810×1515mm 8000×1870×1515mm 11050×1870×1515mm

机床重量 Weight

3700/4500/6000/7500kg

Main Accessories :

Complete set of electric equipment 1set

Complete set of coolant equipment 1set

Wheel peripheral dresser 1set

Wheel flange 1set

Wheel balancing mandrel 1set

Three-jaw chuck 1set

Open-type Steady rest 1set

Levelling wedge 11/13/15/19set

Extra Accessories :

Circular wheel dresser

End-face wheel dresser

Wheel balancing apparatus

Grinding rods with 6 size-one type for grinding short hole and Moh's 2,3,4,5,6.

Working Accuracy(CriterionTyr the Piece)

No. Diagram and Dimension Test Procedure Test Item Tolerance

P1 click Grinding the outside diameter of a workpiece mounted between the centers a.Roundness $\leq 0.02\text{mm}$

b.Consistence of diameters in longitudinal section $\leq 0.005\text{mm}$

c. Surface roughness Ra $\text{Ra} \leq 0.32\mu\text{m}$

P2 Grinding the outside diameter of short test piece mounted on the chuck a.Roundness $\leq 0.0025\text{mm}$

b.Surface roughness Ra $\text{Ra} \leq 0.2\mu\text{m}$

P3 Grinding the bore of a test piece mounted on the chuck a.Roundness $\leq 0.0025\text{mm}$

b.Consistence of diameters in longitudinal section $\leq 0.01\text{mm}$

c.Surface roughness Ra $\text{Ra} \leq 0.63\mu\text{m}$