

Simran Tools International

664, Military Road, Anand Parbat, New Delhi – 1100 05 (India).

E-mail : simrantools@vsnl.net

E-mail : simranindustries@vsnl.net

Website : www.simranindustries.com (for machinery)

Website : www.simrantools.com (for tools & equipments)

Mobile : + 91-9313811414

Phone : + 91-11-32913249

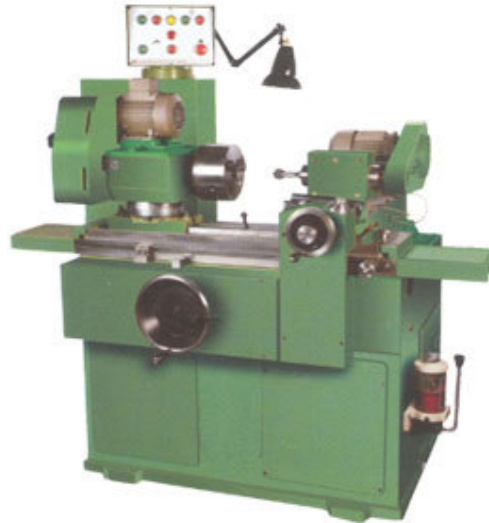
Fax : + 91-11-25861340

Universal Cylindrical & International Grinding Machines

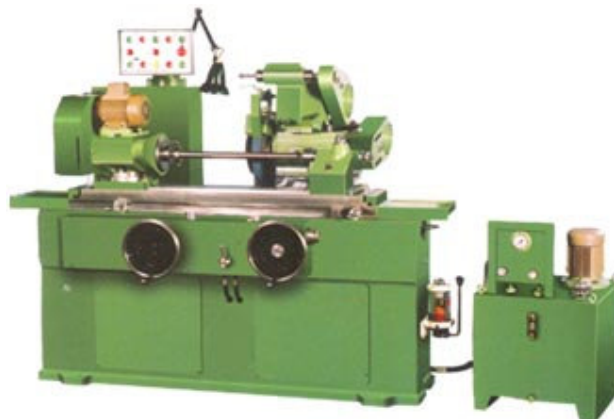
SG-450

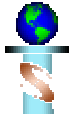


SG-300 INT



SG-600 HYD





SG-1500



Special Features

BED

The one piece bed is made of special cast iron provided with strong ribbing for rigidity and a large inverted well - seasoned and wide track for the table. All the slide ways are ground, on an imported highly sophisticated slide ways grinder to ensure the accuracy of highest order. The casting is accomplished with high grade casting with appropriate alloying elements in ensure to hardness and durability.

TABLE

Compounds of two parts (Lower slide having Vee & flat ways and the upper swivelling table) can be adjusted for taper grinding also. Taper grinding is effected by means of a fine adjustment screw & scale. Two adjustable stops are provide for limiting longitudinal table travel.

WORKHEAD

It is detachable and built for grinding both with revolving and stationery center. Power for transmitted through V-Belts, from a balanced electric motor, fitted on it thus avoiding vibration. Four speeds are available to suit different types of jobs. The workhead can be swivelled upto 90° degree towards wheels and 30° towards operator for taper conical and face grinding.

TAILSTOCK

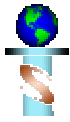
The Tailstock, designed to travel easily on the table, is equipped with a center carrying spindle traveling in a perfectly honed bore. The tail stock spindly is spring traveling in a perfectly honed bore. The Tailstock spindle is spring loaded adjustable by means of a knurled knob and is operated through lever plus rack gear. A slight rotation of the handle on front of tailstock, displace the tailspindle to the rear, thus allowing rapid removal of the workpiece and the insertion on new workpiece No. 3 or 4 tapers center may be fitted in the tailspindle as per the specifications and size.

WHEELHEAD

The wheelhead is designed to raise the efficiency level for operation, decrease overhang and eliminate vibration. The complete unit can be swivelled upto 60° on either side. Wheel spindle can be supplied with taper roller on bronze bearing if specially required. The spindle is driven by a balanced electric motor through V-Belt. Grinding wheel is fitted on the spindlenose end meant for the purpose mounted on a wheel flange In feed movement is obtained through rotation of hand wheel.

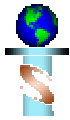
INTERNAL GRINDING ATTACHMENTS

The machine is attached internal grinding attachment driven with independent motor fitted on it through a plain endless belt giving the vibration free highest efficiency. This is also suitable for grinding cylindrical and taper holes.



Specification :

| Model No. | SG-300 | SG-450 | SG-600 | SG-1000 | SG-1500 | SG-2000 | SG-300 INT |
|---|---------------|---------------|---------------|---------------|---------------|---------------|------------|
| Max. Grinding Length | 300mm | 450mm | 600mm | 1000mm | 1500mm | 2000mm | 150mm |
| Center Height | 140mm | 140mm | 140mm | 165mm | 165mm | 165mm | 175mm |
| Max. Work Dia. Ground | 270mm | 270mm | 270mm | 325mm | 325mm | 325mm | |
| Table Feed | Mech./Hyd. | Mech./Hyd. | Mech./Hyd. | Mech./Hyd. | Mech./Hyd. | Mech./Hyd. | Mech./Hyd. |
| Max. Swivel of Table | 7° | 7° | 7° | 7° | 7° | 7° | |
| WORK HAED AND TAIL STOCK | | | | | | | |
| No. of Speed of Work Head Spindle | 4 | 4 | 4 | 4 | 4 | 4 | 3 |
| Morse Taper in Workhead | MT-3 | MT-3 | MT-3 | MT-4 | MT-4 | MT-4 | MT-4 |
| Swivel of Workhead | 90° | 90° | 90° | 90° | 90° | 90° | 60° |
| Morse Taper in Tailstock | MT-3 | MT-3 | MT-3 | MT-4 | MT-4 | MT-4 | |
| Work Head Motor 960 RPM | 75 H.P. | 75 H.P. | 75 H.P. | 75 H.P. | 75 H.P. | 75 H.P. | 75 H.P. |
| GRINDING WHEEL HEAD AND TABLE FEED | | | | | | | |
| Grinding Wheel | 14"x1-1/2"x5" | 14"x1-1/2"x5" | 14"x1-1/2"x5" | 16"x1-1/2"x5" | 16"x1-1/2"x5" | 16"x1-1/2"x5" | |
| Grinding Head Motor 1440 RPM | 3 H.P. | 3 H.P. | 3 H.P. | 5 H.P. | 5 H.P. | 5 H.P. | |
| Wheel Head Swivel | 60° | 60° | 60° | 60° | 60° | 60° | |
| Table Feed Motor 960 RPM | 75 H.P. | 75 H.P. | 75 H.P. | 75 H.P. | 75 H.P. | 75 H.P. | |
| No. of Speed of Table Feed | 3 | 3 | 3 | 3 | 3 | 3 | |
| INTERNAL GRINDING ATTACHMENT | | | | | | | |
| Grinding Spindle outer Diameter | 60mm | 60mm | 60mm | 60mm | 60mm | 60mm | 60-80mm |
| Max. Quill Length | 80mm | 80mm | 80mm | 100mm | 100mm | 100mm | |
| Quill Diameter | 15mm | 15mm | 15mm | 18mm | 18mm | 18mm | |
| Min. & Max. Dia. of Hole Grinding | 16-100mm | 16-100mm | 16-100mm | 19-125mm | 19-125mm | 19-125mm | 5-120mm |



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|--|-----------|-----------|-----------|-----------|-----------|-----------|--------------|
| Spindle Speed | 16000 RPM | 16000 RPM | 16000 RPM | 16000 RPM | 16000 RPM | 16000 RPM | 9000 - 18000 |
| Internal Grinding Attachment Motor 2800 RPM | 1.5 H.P. | 1.5 H.P. | 1.5 H.P. | 1.5 H.P. | 1.5 H.P. | 1.5 H.P. | |
| COOLANT & HYDRAULIC TANK | | | | | | | |
| Cap. of Coolant Tank | 165 Ltrs. | 165 Ltrs. | 165 Ltrs. | 165 Ltrs. | 165 Ltrs. | 165 Ltrs. | |
| Coolant Tank Motor | 0.10 H.P. | 0.10 H.P. | 0.10 H.P. | 0.10 H.P. | 0.10 H.P. | 0.10 H.P. | 0.10 H.P. |
| Cap. Hydraulic Tank | 75 Ltrs. | 75 Ltrs. | 75 Ltrs. | 75 Ltrs. | 75 Ltrs. | 75 Ltrs. | |
| Hydraulic Tank Motor 1440 RPM | 1 H.P. | 1 H.P. | 1 H.P. | 1 H.P. | 1 H.P. | 1 H.P. | |
| WEIGHT | | | | | | | |
| Approx. Gross Weight | 2000 Kgs | 2500 Kgs | 2950 Kgs | 3300 Kgs | 4000 Kgs | 4300 Kgs | 2000 Kgs |

Standard Equipments :

With all Electrical i.e. Motors & Electrical Panels, Coolant Pump & Tank with Piping Grinding Wheel with One Flange, One Dresser with Dresser Holder, One Lamp, 2 Dead Centres, Water Guards, Wheel Spanner & Puller.

Extra Accessories :

Two Point Steady Rest, Three Point Steady Rest, Wheel Balancing Stand with Arbour, True Chuck, Independent Chuck, Magnetic Coolant Separator, Radius Dressing Attachment

All Specifications are subject to change towards modifications and improvements without any prior notice.