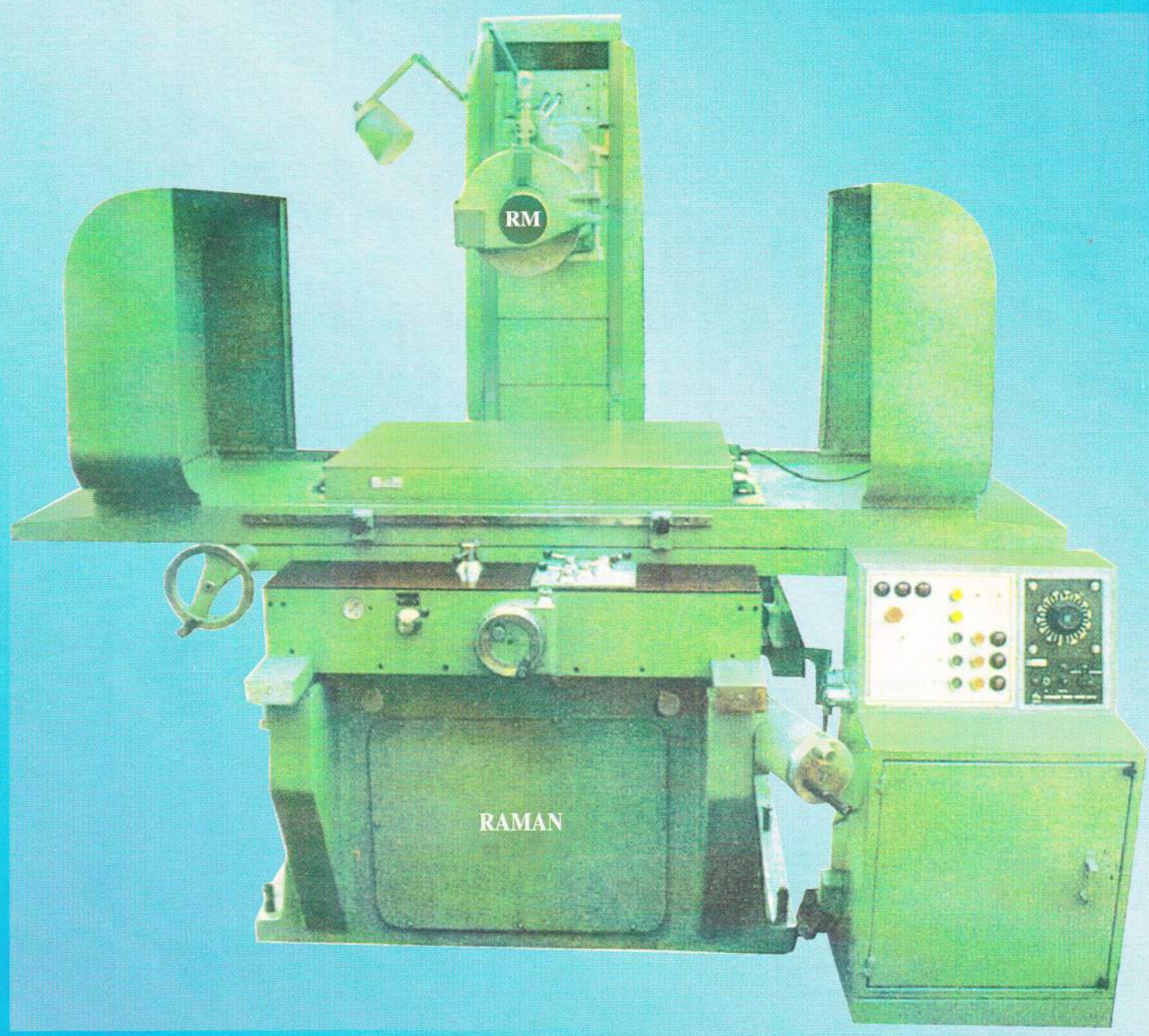


RAMAN

HYDRAULIC SURFACE GRINDING MACHINE



LARGEST TABLE SIZE MACHINE IN INDIA

RAMAN

DEVELOPMENT

RAMAN Surface Grinders are backed by two decades of intensive research and development. Engineered with utmost precision, **RAMAN** Surface Grinders are built with highest accuracy for a long and trouble free service under the most stringent shop floor requirements. Your shops will turn out better work, more profitability with any one of these **RAMAN** Surface Grinding Machines for years to come. **RAMAN** Surface Grinding Machines conform to the international standards of accuracy, as prescribed by Dr. Schlitzengaer, and this accuracy endures over the years.

SPECIAL FEATURES

RAMAN Surface Grinding Machines have a unique bed-type design in which the bed carrying the Table and the Upright are aligned exactly at right angles. The saddle is guided on hardened and ground V-guideways resting on high precision steel balls for smooth operation.

Wheel Head is mounted on rigidly constructed vertical column supported by pre-loaded precision bearings. Sprindle is driven by means of a set of V-belts. All driving pulleys are dynamically balanced. Vertical feed is actuated through a mechanical gear drive incorporated inside the column.

Hydraulic Longitudinal traverse is infinitely variable ranging from 1.5 to 18 meters per minute. Fine feed capability 0.001 mm. Longitudinal Table Traverse is also seated on steel balls resting in hardened and ground V-guideways **RAMAN** grinders are fitted with a compact hydraulic Power Pack, with an exclusively designed Control Unit incorporated within the body of the machine. Oil reservoir, Unibuilt Pump and Automatic Pressure Control Unit with Filter etc. are accessibly located for easy maintenance.

LUBRICATION

Automatic lubrication system is built-in feature of each **RAMAN** Surface Grinding Machine. The Table, Saddle and Cross Feed Screw have an arrangement for continuous lubrication. Lubricant is fed into required areas under constant pressure. Over spilling lubricant is drained into the reservoir.

SPECIFICATIONS

Description	Units	RM - 62	RM - 63	RM - 725	RM - 750	RM - 1030	RM - 1050	RM - 1075
Working Surface of table	MM	600 x 200	600 x 300	750 x 250	750 x 500	1000 x 300	1000 x 500	1000 x 750
Maximum height admissible between table and new grinding wheel	MM	250	300	275	600	300	600	600
Self Acting Longitudinal traverse of table	MM	650	650	800	800	1050	1050	1050
Cross Table traverse, Hydraulic	MM	230	335	285	570	335	570	820
Table traverse speed range	Mts/Min	1.5 to 18	1.5 to 18	1.5 to 18	1.5 to 18	1.5 to 18	1.5 to 18	1.5 to 18
Automatic cross feed range per stroke at each reversal	MM	0.5 to 10	0.5 to 10	0.5 to 10	0.5 to 10	0.5 to 10	0.5 to 10	0.5 to 10
Fine feed grauation-Vertical	MM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Fine feed grauation-Cross	MM	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Maximum vertical traverse of wheel head from spindle from table	MM	375	425	400	750	425	750	750
Grinding Wheel size (Dia x Width x Bore)	MM	250 x 20 x 76	250 x 25 x 76	250 x 25 x 76	250 x 25 x 76	250 x 25 x 76	300 x 50 x 76	300 x 50 x 76
Speed of Wheel	PRM	2400	2400	2400	2400	2400	2400	2400
Power of Wheel Head motor	KW	1.5	2.25	2.25	3.75	2.25	3.75	3.75
Power of Hydraulic Pump motor	KW	0.75	1.5	1.5	2.25	1.5	2.25	2.25
Power of rapid vertical traverse motor	KW	0.375	0.375	0.375	0.375	0.375	0.375	0.375
Appx. Weight	KG	1750	2200	2400	4000	4200	4500	5500
Case Dimensions (L x B x H) mm	MM	1990 x 1375 x 1830	2200 x 1525 x 1830	1990 x 1525 x 1830	2400 x 2000 x 2500	2750 x 1525 x 1830	2600 x 2000 x 2500	2850 x 2300 x 2700

ACCESSORIES TO MEET MAY NEED

STANDARD ACCESSORIES (Included in the price of the machine)

RAMAN Surface Grinding Machines are accompanied by a set of standard accessories such as Grinding Wheel mounted on the spindle, Wheel Guard, Allen Keys and Spanners, Puller, Electric Motor for Sprindle, Hydraulic Pump and rapid Vertical Traverse Motor, Electrical Control Gears and instruction Manual.

OPTIONAL EQUIPMENT (at extra cost)

Machine Light Low-voltage with transformer, Electromagnetic Chuck, Wet Grinding Attachment, Coolant equipment complete with table and splash guard, Built-in wheel dressing attachment mounted on the spindle housing but hydraulically operated, Wheel balancing stand with mandrel, Additional wheel flange, Dust exhaust equipment, Radius and angular wheel forming attachment, Plain Vice opening 65 mm width of jaws 100mm, Swivel vice opening 65mm width of jaws 100mm, Universal 3 way swiveling vice admits work 65mm width of jaws 100mm, Demagnetiser.



RAMAN MACHINERY CORPORATION

Distributors & Exporters of Machinery & Machine Tools

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