

*An Integrity of Engineering*



# **RAJSAMAND GRANI ENGINEERING**

**A Complete Solution for Stone Processing & Mining Machineries**

**Line Polishing Machine ◦ Multi Block Cutter ◦ Auto Polish Machine ◦ EOT Crane**

[www.rajsamandgrani.com](http://www.rajsamandgrani.com)

## About Us

Established in the year 2003, We “Rajsamand Grani Engineering” are one of the prominent manufacturers, Suppliers and Exporters of a quality assured array of Line Polishing Machine ( 9 Head - 16 Head) Marble / Granite Block Cutter Machine, Automatic Polishing Machines and Stone Processing Machines. The provided machines are made to utilize the superior quality raw materials and the most advanced techniques by our prominent professionals. Moreover, the provided machines are checked on diverse parameters by expert quality team, using sophisticated testing instruments and machines. Our complete range of machines are highly respected and admired by our customers due to its features such as strength, cost effectiveness, reliable performance and superior quality. We supply these machines in diverse technical specifications to meet the different needs of our clients. Further, one can get these machines according to their specific requirements. It is our bespoke options and cost-effectiveness that have made our machines highly popular among our valued clientele.

## RGE-6-12-1350



RGE ensure the optimum quality production at least cost with least maintenance. The machine senses the pressure of polishing head on marble/granite slabs as per its physical parameters.

# Line Polishing Machine



## Core Features of RGE-12

- Maximum quality outputs
- Reduce the cost of production
- User-friendly computer controller
- Least voice production
- Hydraulic Trolley to dispose final polished slab
- Robust Quality Structure
- Assembled with branded spares & tools

## Technical Specifications

LINE POLISHING MACHINE	UNIT	MODEL			
		9	10	12	16
Number of Polishing Heads	N"	9	10	12	16
Maximum Working Width of Slabs	mm	600-2200 mm	600-2200 mm	600-2200 mm	600-2200 mm
Maximum Thickness of Slabs	mm	60	60	60	60
Number of Abrasive per Head	N"	5/6	5/6	5/6	5/6
Diameter of Polishing Head	mm				
Polishing Spindle Power	HP/RPM	10/960	10/960	10/960	10/960
Conveyor Belt Speed	meter/mm	0-1400 meter/mm			
Bridge Speed	meter/mm	0-60 meter/mm			
Compressed Air Pressure	kg/cm <sup>2</sup>	6 -10 kg/cm <sup>2</sup> (bar)			
Water Requirement	litre/min.	220	250	300	400
Overall Length	mm	7500	8500	9000	11000
Overall Height	mm	2750	2750	2750	2750

## Double Head Auto Polisher

The is a machine equipped with two operating spindles, sliders on rails and the material to be polished is placed on a cemented surface. The finishing of the slab takes place in various passages, replacing the abrasives ( with increasingly thin grains) at each passage. Once the working cycle ends, the machine automatically returns to the starting position.



### Technical Specifications

BRIDGE POLISHER	DOUBLE HEAD
Main Motor Power	10 HP
Up-Down Stroke	165 mm
Bridge Motor Power	2 HP (1 Nos.)
Long Travel Motor Power	2 HP (2 Nos.)
Max. Processing Thickness	60
Compressed Air Pressure	6-8 kg/cm <sup>2</sup> (bar)
Water Consumption	360 litre/hour
Panel	Fully Automatic Computerized, PLC & HMI Control System

### Key Features

- Bridge type automatic polishing machine for store.
- Pneumatic pressure system, frankfurt & flicker type polishing disc. also can attach velcro disc.
- Four kind of polishing style: Longitude, horizontal, Zigzag & Manual.
- Variable polishing speed with AC drive & electrical motor.
- Heavy linear guide & rack -pinion for bridge travelling.
- Fully automatic except changing the push buttons.
- Cast iron bridge & heavy structure.

## Crane (EOT)

Electric Overhead Travel (EOT) We offer both Double and Single Girder cranes with capacities of up to 30 tons. Our solutions are customized after a thorough in-depth analysis of your applications, production factory, and material handling requirements.



### Cranes (EOT) Technical Specifications

Capacity (S.W.L.) Tons	Span C/C (meter)	Height of Lift (meter)	Duty Class as per IS	Long Travel Speed m/min		Cross Travel Speed m/min		Hoist Speed m/min	
				Single Speed	Double Speed	Single Speed	Double Speed	Single Speed	Double Speed
3	10-30	5-8	M-5	12	5/20	8	5/20	3	0.66/4.0
5	10-30	5-8	M-5	12	5/20	8	5/20	3	0.66/4.0
10	10-25	5-8	M-5	12	5/20	8	5/20	3	0.66/4.0
15	7-25	5-8	M-5	12	5/20	8	5/20	3	0.53/3.4
20	7-20	5-8	M-5	12	5/20	8	5/20	3	0.53/3.4
25	7-20	5-8	M-5	12	NA	8	NA	3	NA
30	7-15	5-8	M-5	12	NA	8	NA	3	NA

## Multi Blade Granite Cutting Machine

This cutter is manufactured at our modern production plant by our professionals with high quality materials as per the industry set quality standards. This machine is used for cutting the granite stones in an accurate as well as uniform sizes and shapes.



## Key Features

- Sturdy fabrication design to enhance better accuracy and machined to perfection each components manufacturing in close tolerance.
- Best in its class linear guide ways for transverse movement (X Axis) for the cutting feed to enhance fast, frictionless and precise movement of the saw, These guide ways run completely in oil bath rack.
- Heavy Duty end carriage for whole brigade / machine movement (Y Axis) fitted with dual reduction gear box, forging wheel for smooth run and double side parallel rack for accurate positioning for slab thickness.
- Hollow hard chrome pipe for friction less up-down movement (Z Axis) and it's control by dual hydraulic cylinders and there power pack, where saves time and increases productivity, as well as provide sturdiness to the cutters, by zero backlash.
- Precise Rack and pinion manufactured under close tolerance to attain almost negligible backlash and assembled to perfection for smooth movement of saw.
- The groove made by multi cutters are 8mm maximum, when compared to single blade cutters yields a groove of 11mm, hence use of thin blades is only possible in multi cutter increases productivity.

## Products Coming Soon...

- **Block Tilting Machine**
- **Resin Line Machine**
- **Wire Saw Block Dresser**
- **Various Granite Processing Machine as per customer requirement**



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