



## VERTICAL SURFACE GRINDING MACHINE



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# VERTICAL SURFACE GRINDING MACHINE

## PRODUCT DESCRIPTION

### Model ASG 1800, Model ASG 1500, Model ASG 1000

Our Vertical Surface Grinding Machines are high precision product which is also equipped with milling facility. Advanced design of the Wheel head and Simple Operating System assure Smooth Operation, Superior Finish, and Higher Productivity. This machine is ideal for Engine Re-building, Manufactures, and General Engineering application. In the automobile industry, this machine is capable of grinding and/or milling of cylinder blocks and heads made of both Cast Iron and Aluminum.

## SALIENT FEATURES

- Single 3HP Motor for Grinding & Milling.
- All Movements using High Precision Hardened & Ground Ball Screws with Servo Control.
- Anti Friction Lining on all Sliding Surfaces for Smooth Operation & Long Life.
- Manual & Automatic Rapid Up and Down Movement of the Wheel Head with MPG & Servo Motor.
- Fly Cutter for Milling Operation.
- In-Built Dresser for Grinding Wheel.
- Low voltage electric control system with Safety Controls.
- Infinitely Variable Auto Table Traverse with Servo Control.

## TECHNICAL SPECIFICATIONS

DESCRIPTION	ASG 1000	ASG1500	ASG1800
Table Clamping Surface	1000 x 300 mm	1500 x 350 mm	1800 x 400 mm
Automatic Table Travel	1200mm	1500mm	1800mm
Table Feed Rate (Servo With Ball Screw)	Variable	Variable	Variable
Max. Distance Between Table & Wheel Head	500mm	750mm	1000mm
Vertical Head Traverse	550mm	750mm	1050mm
Segment Wheel	ø 350 mm	ø 400 mm	ø 400 mm
Grinding Head Rapid Movement(Servo with Ball Screw)	Variable (MPG)	Variable (MPG)	Variable (MPG)
Grinding Wheel Motor Power	3 hp, 980 rpm 3 Ph, 415 V, 50 Hz	3 hp, 980 rpm 3 Ph, 415 V, 50 Hz	3 hp, 980 rpm 3 Ph, 415 V, 50 Hz
Grinding Head Spindle Speeds Rpm	250, 550, 1000 rpm	250, 550, 1000 rpm	250, 550, 1000 rpm
Servo Motor – Table Traverse	400 W	750 W	750 W
Servo Motor – Grinding Head Movement	400 W	400 W	400 W
Hand Feed for Grinding Head 1 div/0.01 mm	MPG	MPG	MPG
Coolant Motor Power	0.25hp	0.25hp	0.25hp
Table Movement	Precision Ball Screw	Precision Ball Screw	Precision Ball Screw
Grinding Head Movement	Precision Ball Screw	Precision Ball Screw	Precision Ball Screw
Gross Weight (Approx)	2700 kg	3200 kg	3500 kg
Packing Case Dimensions (LxWxH) in mm	3000 x 1666 x 2000	3300 x 1600 x 2600	3500 x 1600 x 2800
Shipping Volume (Approx)	11 m³	13 m³	15.2 m³
Maximum Milling Width	370 mm	420mm	420mm
Maximum Grinding Width	350 mm	400mm	400mm
Maximum Grinding Length	1000mm	1200mm	1600 mm
Distance from column to table centre	350mm	350mm	400mm

## STANDARD ACCESSORIES

DESCRIPTION	ASG	DESCRIPTION	ASG
Setting Up Parallel	01 set	Milling Head With Milling Tool	01 set
Block Tightening Side Clamp	02 nos	T Bolt With Nut & Washer	08 nos
Block Tightening Clamp With Nut	04 nos	Rexine Sheet	02 nos
Wheel Balancing Mandrel With Nut	01 nos	GI Pipe ½"	04 nos
Pad Weight Adjusting	08 nos	Wheel Dresser (In-Built)	01 nos
Box Spanner	01 nos	Allen Key 1.5 - 10 Mm	01 nos
Wheel Extractor	01 nos	Spanner Double End 20/22, 24/27 Each	01 nos
Plate Leveling With Bolt	03 nos	Operation Manual	01 nos

## OPTIONAL ACCESSORIES

DESCRIPTION
Roll over fixture for V-block