

WORLD'S  
FINEST  
GRINDING  
TECHNOLOGY  
**CYLINDRICAL  
GRINDERS**

[shardamachines.com](http://shardamachines.com)

**SHARDA**<sup>TM</sup>  
***SINCE 1970***



## **SHARDA MECHANIC WORKS PVT. LTD.**

was grounded in 1970.

Formerly known as **AMBA PETLAR.**

SHARDA MECHANIC WORKS PVT. LTD. is one of the leading manufacturer and exporter of Cylindrical Grinding machines since 1970. SHARDA is a family owned company with third generation running the business making it dynamically energised. The manufacturing plant is spread over an area of 76,500 sq. ft. We have more than 15000+ machines installed to date.

SHARDA majorly manufactures a variety of External, Internal, Universal and Special Purpose Cylindrical Grinding Machines in CNC, PLC and Hydraulic versions since 1970. Also, SHARDA manufactures customisable Cylindrical Grinding machines according to the requirement of the customer. The machine shop is equipped with Planning, boring, turning, drilling, milling, grinding machines etc. SHARDA focusses on providing solution based on customer preference which is why it is a technology-driven, customer focussed solution provider. SHARDA promises a 'POINT TO POINT PERFECTION' in the field of grinding technology.

All the machines are drafted and well-outlined using latest software for 3Dmodelling such as 'Solid Works'. A well-managed and experienced team of employees makes SHARDA systematic and efficient. We have more than 3000 satisfied customers all over the world, majorly in INDIA.

## **INFRASTRUCTURE**

SHARDA is extended over an area of 76,500 sq. ft. SHARDA encompasses a state-of -the-art in-house facilities to ensure a better quality product. We have divided our infrastructure in sections like: research & development, production, sales & marketing, quality testing. The machine manufactured not only meets stringent criteria but also exceeds it.

## **QUALITY**

The aim of quality control is solely to maintain the efficiency and accuracy of machines. At SHARDA, QC works by finding defects in the machine and correcting them before delivering them to the client. Therefore, we are committed to detailed checking of systems and programs thereby improving the quality of the product and services in order to achieve customer satisfaction.

## **REGISTERED WITH**

IMTMA : Indian Machine Tools Manufacturers Association

MTMA : Machine Tools Manufacturers Associations



## INDUSTRIES WE SERVE!

Committed to cater to the diverse requirements of our clients



AVIATION



MINING



AGRICULTURE



TOOLS



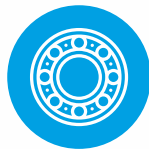
DEFENCE



DRILL



HEALTH



BEARING



AUTOMOBILE



MARINE



CEMENT



GARAGE



MEDICAL



FASTENER



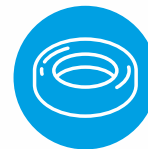
VALVE



TEXTILE



MOTOR



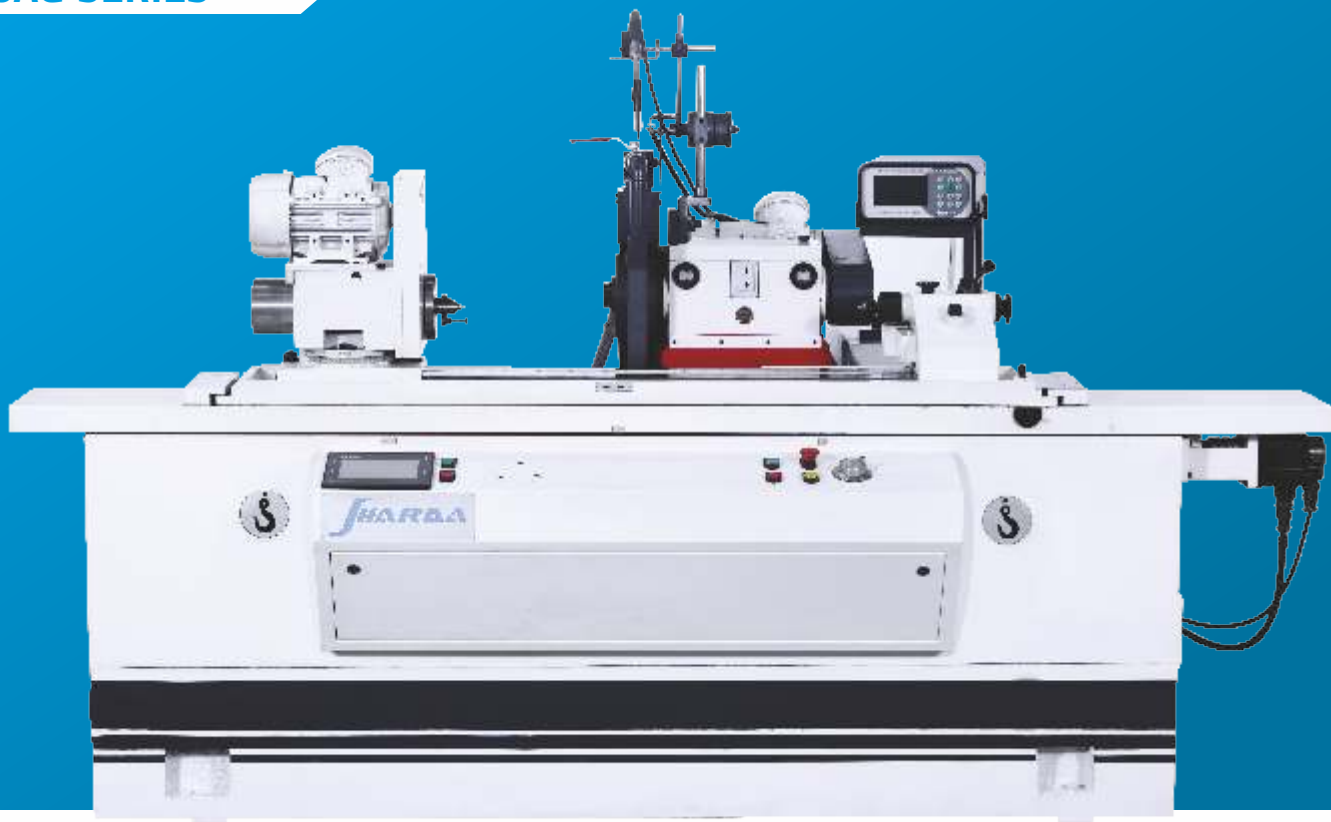
RUBBER

# PLC EXTERNAL

CYLINDRICAL GRINDING MACHINE

## SAG SERIES

**SHARDA**<sup>TM</sup>  
SINCE 1970



Sharda Mechanic Work Pvt. Ltd., established in the year 1970, is a leading manufacturing of External, Internal, Universal and Special Purpose Cylindrical Grinding in CNC 'PLC' and Hydraulic version. The machine is design to achieve a very high degree of accuracy. Productivity and reliability of performance. These Machines are suitable for production, Tool Room application.

### MACHINE BASE

The machine base is manufactured of one piece close grained graded cast Iron box type design, heavily reinforced with ribs provide high rigidity & stability.

### MACHINE GUIDE WAYS

- V & Flat guide ways precisely hand scrapped with automatic lubrication system
- Grinding Wheel Slide is coated with Turcite coated which gives stick slip free movement, excellent vibration damping and high positioning accuracy.

### WHEEL HEAD

- Wheel Head Spindle is made of special alloy steel ground and micro finish to achieve high dimensional stability and long life.
- Spindles runs in precision white metal bearings which give high accuracy and excellent surface finish to the work piece.
- Cartridge type grinding wheel head spindle with precision antifricition can be offered as optional.

### OPTIONAL ACCESORIES

- Automatic In-process Gauge
- Swing Arm Type In-Process Gauge
- Table Mounted In-Process Gauge

### WORK HEAD

- The machine has a rigid Universal Work Head, which can be swivelled to facilitate taper grinding.
- The drive to the work head is built for stationery grinding.
- Work Head with Antifricition bearings and variable frequency drive offered as optional.

### TAIL STOCK

- Rigid Tail Stock.
- Tail stock is spring loaded and can accept MT-3 Taper
- Hydraulic Actuation & Micro Taper correction facility in optional.

### ELECTRICALS

- The machine is supplied with all electrical suitable for 440V, AC, 50 Hzs. The motors are of reputed make, The electrical panel is mounted on one side of the machine, push button station is located at easy reach of the operator.

### COOLANT

- Coolant supply is provided with electrical pump fitted on separate tank.

# SPECIFICATION



DISCRIPTION	UNIT	300	500	625	750	1000	1250
Swing over Table	mm	254/300/350	254/300/350	254/300/350	254/300/350	254/300/350	254/300/350
Admit Between Centres	mm	300	500	625	750	1000	1250

## WHEEL HEAD SLIDE (X-AXIS)

Guide Ways Type	V and Flat						
Rapid Feed Rate	m/min	5					
Resolution of X-AXIS	mm	0.001					

## LONGITUDINAL TABLE (Z-AXIS)

Guide Ways Type	V and Flat						
Rapid Feed Rate	m/min	5					
Resolution of X-AXIS	mm	0.001					

## WHEEL HEAD

Spindle Design	White Metal Brass Type						
Grinding Wheel Dia	mm	350 / 400					
Grinding Wheel Width	mm	40 / 50					
Motor Power	kw	3.7					

## WORK HEAD

Spindle Nose Taper	MT	4					
Speed Of Work Head	rpm	50-500 VARIABLE FREQUENCY DRIVE					

## TAIL STOCK

Spindle Nose Taper	MT	3					
Quill Travel	mm	25					
Weight Approx.	Kg.	1800	1800	1800	1800	1800	1800
Floor Space (L X W)	mm	2400 X 1260	2760 X 1260	2950 X 1260	3410 X 1260	4370 X 1260	4870 X 1260

**NOTE:** • Since continuous development is taking place, design and specifications are subject to change without prior notice and information.  
• Colour shown in picture may not match with actual colour due to printing limitations.  
• Available machines shown may vary depending on optional equipment or periodic design changes.



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