

# **SABAR** Autocot

Multi-use and proven  
Automatic cot-grinding machine

*The Ultimate in*  
**automation**

## AUTO FEED BOX



with superior concept

## AUTO TIMER



with users friendly MMI

## GRINDING SYSTEM



of international standard



**Sabar Machine Tools Mfg. Co. India**

# SABAR Autocot

## Cot-grinding at it's best, with simplified automation

### ADVANCED AUTOMATIC SYSTEM, HIGH PRODUCTION

Non-stop spinning of better quality yarn requires the best cot grinding and the latest Autocot machine does just that. High volume of superfine cot-grinding. Specially suited for quality conscientious spinning mills. Machine controls accuracy of 0.01 mm in Taper & Eccentricity of buffed top roller with international standard Ra value of um0.3 to 0.5.

#### Method of working :

The machine has a full width grinding wheel of 200 mm on oscillating principle with hydraulic movement, it has the PLC base timer & positive driven centreless grinding attachment which is designed to grind ring frame & speed frame top roller for auto-grinding. The centreless attachment is operating by pneumatic system. A separate 25 mm width grinding wheel is provided to grind draw frame & comber top roller between two centres.

### TECHNICALLY ADVANCED DESIGN

#### Centreless grinding attachment

- A 100% positive drive single guide cum drive-roller system with specially designed groove - grinded steel roller, which provides firm grip to the top roller to achieve best surface finish on cots.

#### TAIL STOCK

- The self-aligning design of the Tail Stock provides accurate taper grinding of comber rollers.

#### UNIQUE WORKING TABLE

- The table is of "Flat" and "Vee" design. The alignment is fixed and hence high degree of accuracy upto 0.01 mm, Taper & Eccentricity is achieved.
- The table traverse speed can be increased or decreased by using the flow control valve.
- Draw frame and comber rollers are ground between two centres with table movement on hydraulic system. A Proximity limit switch specially incorporates a controlled 'to-&-fro' movement of the working table.

### SPECIFICATIONS

#### ELECTRIC MOTOR

- Work Head - 0.50 H.P. 2800 RPM
- Wheel Head - 2.00 H.P. 2800 RPM
- Dust Extraction - 1.00 H.P. 2800 RPM
- Hydraulic Power Pack - 1.00 H.P. 1400 RPM

#### SURFACE ACCURACY

This depends on quality of labour  
After grinding accuracy : 0.01 mm Taper  
0.01 mm Eccentricity

Mfd. By :

### Sabar Machine Tools Mfg. Co.

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- All uniform outside diameter top rollers are kept in auto-feeding box which is provided on top side & controlled by specially developed electronic sensors & discharge for grinding by pneumatic cylinder. Top roller will be rest on single guide cum drive roller & will be held in self locking roller catch.
- A self locking sensor connected roller catch will hold top roller in centre & grinding will be done on oscillating system as per the timings set under PLC.
- As soon as the grinding is over, top roller will be loaded by self locking sensor controlled roller catch & top roller will traverse to the drop-box.
- The drop-box at bottom of the machine ensures that ground top roller surface will not be damaged & zero grinding & post grinding striation surface. This reflects uniform spinning & increases quality of yarn.

Ultimate in  
cot-grinding technology



For the ultimate  
growth & profitability

### DUST COLLECTION

- Separate highly efficient dust collecting unit is provided alongwith the machine.

### PROGRAMMABLE LOGIC CONTROLS (PLC)

- Most modern PLC is introduced with user friendly Man-Machine-Interface (MMI) to operate machine without any difficulty.
- The timer shows all the required data which eliminates human error, production loss & ensures 100% efficient working of the machine.
- PLC basis timer ensure non-stop grinding on machine & stores all data in software.

### GRINDING WHEEL

- For grinding of Ring frame & Simplex top rollers.  
Size : 250 x 200 x 150 mm AA-60
- For grinding of Draw frame & Comber roller.  
Size : 250 x 25 x 150 mm AA-60  
(AA-46 & AA-80 grit grinding wheel available an a option)

Exports Division :

**K. Marfatia Exports**, Ahmedabad, India

Mkt. By :

