

The First Customized

SPINNING ROLL SHOP MACHINERY SINCE 1969



SABAR SPINMATIC EQUIPMENTS

Beyond The Conventional

Who we are?

Sabar Spinmatic Equipments is a world's next Generation market developer of Spinning Roll Shop equipments & import substitute spares & accessories having large marketing operations in more than 26 countries in the globe.

Many technocrats have been working here for many years, leaving no stone unturned in their quest to make the most advance & marvelously engineered roll shop machines for textile spinning industry.

We have developed one grounding solution after another to get closer to realise our vision at accurate & effective Roll Shop equipments.

Besides, **Sabar Spinmatic Equipments** is the only company in the world who is completely focused for developing Roll shop equipments & always strive to provide 100% relaxation to spinning industry.

"Let us Spin with Sabar Spin" !!!

► **Twin Auto Cot Grinder** *1st in the Textile World*

An all new Cot Grinder is a milestone for any roll shop producer. Only one, however marks the dawn of a new era for all cot grinders. Only one machine sets the standard of the Industry & that machine can be the Twin Auto.



Fascination:

- Equipped with two grinding zones i.e.
 - a) 200 mm width grinding wheel for automatic grinding of R/F, S/F, rollers.
 - b) 25 mm width grinding wheel for Hydraulic table traverse grinding of D/F, Comber rollers.
- Continuous grinding process of all types of rollers without interchanging any grinding attachment.
- Specially developed grinding wheels of approx 23 micron room between granules ensures cold cutting & no damage to cot surface.
- Two rollers mechanism for accurate holding of top roller.
- In built dressing arrangement for 200 mm width grinding wheel.
- Naturally seasoned body ensures more than 160 BHN hardness.
- Specially crafted auto feeding box which allows all types of small rollers including Elite rollers.
- Hand crafted Aluminium drum ensures heat reciprocation system & prevents cots surface deterioration.

Twin Auto Cot Grinder (Cont.)



Why Twin Auto?

- **Restless.** Continuous grinding of all types of rollers without interchanging any grinding assembly.
- **No delay.** Due to simultaneous grinding on both the sides, production is continuous & no delay takes place.
- **One time investment.** One time procurement of this machine will bring complete relaxation to spinning department as they will enjoy continuous grinding with cent percent accuracy.

We strongly recommend Twin Auto for your spinning unit & do not repent in the future.

Continuous grinding on

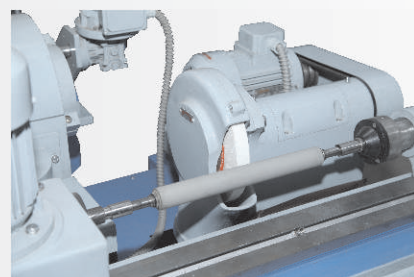
- 200 mm (w) grinding wheel



- 25 mm (w) grinding wheel



Automatic Grinding of Ring frame / Speed frame Top Rollers, Controlled by PLC-MMI. It is fitted with Auto feeding Box & Collecting basket.



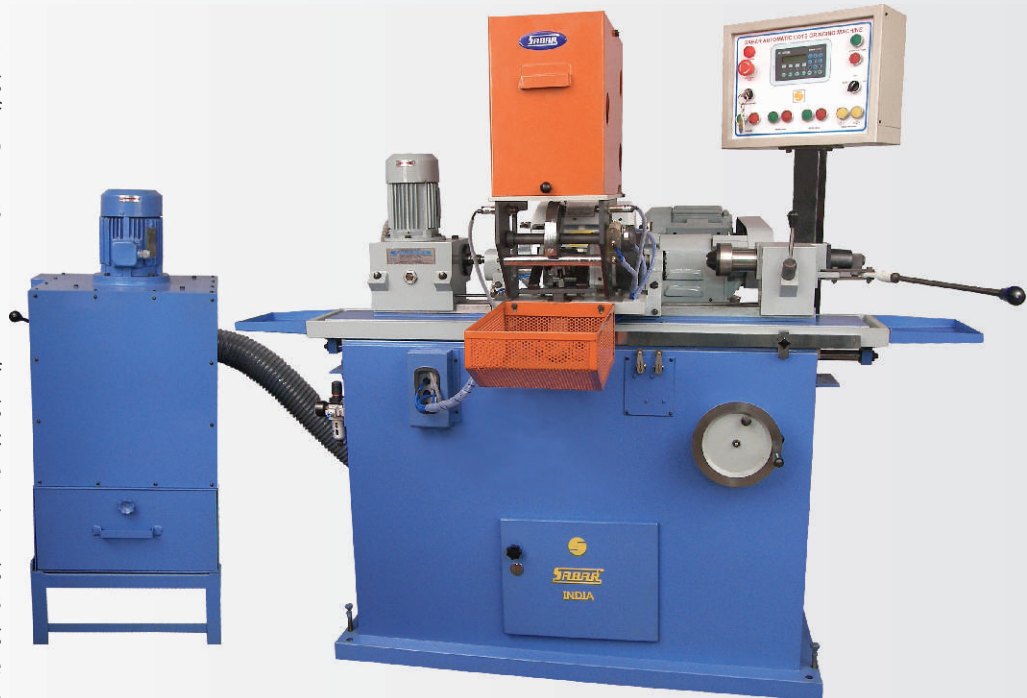
Grinding of Draw frame / Comber Rollers between two centre by Hydraulically operated auto table traverse.

▶ Automatic Cot Grinding Machine (Plunger grinding principle)

The job (Cast Iron table) is stationary & grinding stone rotates on its self axis along with to and fro motion. Only the Indian company who offers this principle.

Fascination:

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 rollers. 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.



Application:

Machine is suitable for grinding all types of top rollers like Ring frame, Speed frame, Draw frame, Comber, OE, texturizing, Elite rollers etc.

▶ Automatic Cot Grinding Machine (Table traverse principle)

Grinding stone rotates on its self axis & job (Cast Iron table) will move to and fro.



Fascination:

The machine has a full width grinding wheel of 200 mm on table traverse system with hydraulic movement, it has the PLC base timer & positive driven centreless grinding attachment which is designed to grind Ring Frame & Speed Frame top rollers 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.

Application:

Machine is suitable for grinding all types of top rollers like Ring frame, Speed frame, Draw frame, Comber, OE, texturizing, Elite rollers etc.



► Hydraulic / Semi Automatic Cot Grinding Machine (Plunger grinding principle)



Fascination:

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 rollers 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.

Here the feeding & de-feeding of roller is manual. Rest process is automatic & conducted by machine.

Application:

Machine is suitable for grinding all types of top rollers like Ring frame, Speed frame, Draw frame, Comber, Gill box rollers, OE, texturizing etc.

Note: Table traverse model is also available.

► Mechanical High Production Cot Grinding Machine (Plunger grinding principle)

Fascination:

The machine is equipped with 200 mm width grinding wheel along with centreless grinding attachment for grinding smaller cots like Ring Frame & Speed Frame on oscillating principle & longer cots like draw frame, Comber can be grind between two center on 25 mm width grinding wheel. Here the entire process is manual & no automation is involved.

Application:

Machine is suitable for grinding all types of top rollers like Ring frame, Speed frame, Draw frame, Comber, OE, texturizing, Worsted rollers etc.



Note: Table traverse model is also available.

▶ **Standard Cot Grinding Machine** *(Dedicated model for Long cots & texturizing spinning)*



Fascination:

Equipped with 25 mm width grinding wheel which is rotating on its self axis & job (smaller cots like R/F, S/F, rollers) will be held in centerless attachment & tail stock unit is provided for grinding D/F & Comber rollers thus working is manual & purely traverse grinder.

Application:

Machine is suitable for grinding all types of top rollers like Ring frame, Speed frame, Draw frame, Comber, OE, Gill Box roller, texturizing etc.

- Dedicated Model for Long cots & texturising Spinning.

▶ **Extended Standard Cot Grinding Machine** *Exclusive grinding for jute spinning rollers.*



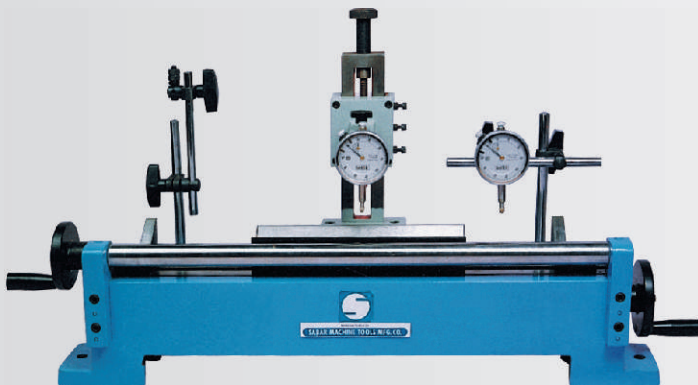
Fascination:

Machine with extended width & length with heavy duty structure and all the reliable features of a SABAR cot grinder. Specially suitable for grinding rollers for jute spinning between two centers, complete with screw type tail stock unit & inbuilt dust collecting box.

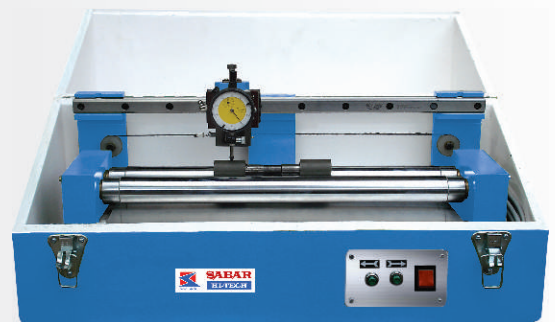
Technical Specification

		Twin AutoCot	AutoCot	AutoCot	HydCot	MechCot	StanCot	Ex. StanCot	
Operating System		Twin Auto	Auto	Auto	Semi Auto	Manual	Manual	Manual	
Grinding Concept		Table Traverse	Plunger type	Table Traverse	Plunger type		Table Traverse type		
Grinding fix diameter		Yes (Manually)							
Grinding fix cut on different diameter		Yes (Manually)							
Sorting		No							
Auto dressing to grinding wheel		Manual dressing to grinding wheel							
Grind production of top rollers		up to 400 rollers	up to 400 rollers	up to 400 rollers	up to 400 rollers	up to 250 rollers	up to 250 rollers	Suitable to grind between 2 centre	
Hour of spinning (Approx)				up to 70	No magazine provided				
Loading Capacity of top rollers		up to 70	up to 70	up to 70	No magazine provided				
Grinding accuracy surface finish		0.02µm* RA < 0.5 µmm *Accuracy depends on condition of toprollers							
Suitable for		Ring, Speed frame, OE, Draw frame, Comber rollers			+ worsted spinning roller		+ Texturizing spinning	Jute Spinning rollers	
Working Range		Ring Spinning, Speed frame			Longer cots				
		Diameter Min.		19mm					
		Diameter Max.		38 mm		150mm		250mm	
		Length of top roller Max.		190 mm		535mm		650mm	
Length of cot Max.		45 mm		375mm		500mm			
Operating control		Hydropneumatic / PLC control			Hydraulic/ Micro control		Electromechanical		
Error diagnosis		No							
Grinding stone dimension		For ring frame/ Speed frame				Diameter 250 mm Width 200 mm Speed 2880 rpm		Diameter 230 mm Width 25 mm Speed 2880 rpm	Diameter 250 mm Width 40 mm Speed 2000 rpm
		For longer cots		Diameter 250 mm Width 25 mm, Speed 2880 rpm					
Dust extraction system		Yes							
Space required (LxWxH)		Machine (mm)	1780x1320x1820	1780x1320x1820	1520x1290x1440	1520x1520x1290	1520x1420x1520	1420x1140x1420	1700x1140x1420
		DC Box	1400x1000x1420	1400x1000x1420	1010x680x1270	915x580x1290			
Volume		Machine	4.368 cbm	4.368 cbm	2.82 cbm	3.06 cbm	3.360 cbm	2.350 cbm	2.815 cbm
		DC Box	2.0166 cbm	2.0166 cbm	0.87 cbm	0.703 cbm			
Weight (Approx)		Machine	1400 kg	1200 kg	1200 kg	1200 kg	1100 kg	900 kg	1100 kg
		DC Box	600 kg	600 kg	600 kg	600 kg			

► Eccentricity & Taper Tester (Manual & Electric) A Valuable Small Value



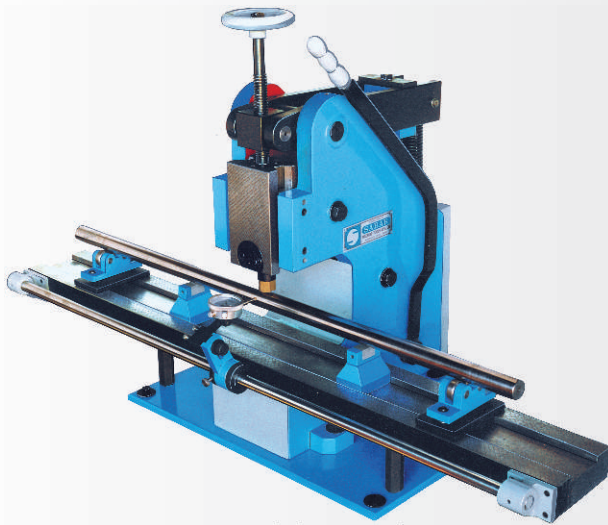
Manual



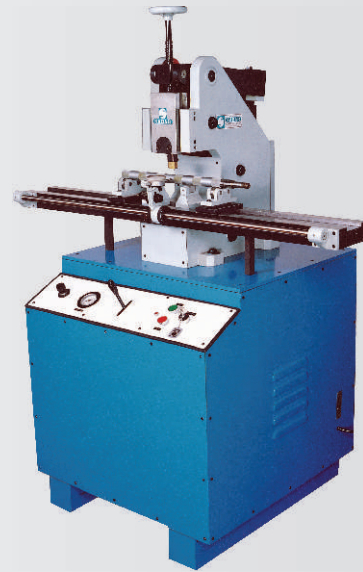
Electric

- For Inspecting eccentricity & taper with 2 dial gauge mechanism which ensures faultless top rollers & increases yarn quality.
- Two Model available: (1) Manual (2) Electric

▶ Fluted Roller Truing Machine (Manual & Hydraulic) *Eminently Straight*



Manual



Hydraulic

Fascination:

- Sharp Identification & Inch-perfect rectification of eccentricity.
- Specially grooved C.I. table with two anti-frictional bearing blocks for different length of rollers.
- Two slide roller straightening blocks for easy holding & straightening of rollers.
- Dial gauge to measure eccentricity.

	FRTM	Hyd FRTM
Operating System	Manual	Hydraulic
Working range	upto 34 mm Dia.	upto 40 mm Dia.
Connected load	-	0.74 kw
Working pressure	-	upto 100 Bar
Space Required	1204 x 610 x 745 mm	1211 x 680 x 1450 mm
Net Wight	170 Kg. (approx)	300 Kg. (approx)

▶ Vertical Top Roller Greasing Machine *Prominent control over grease*

Fascination:

- Purely manual operation for greasing the top roller bearing which ensures 100% viscosity control on grease.
- Volumetric Calibration system safeguards pre-determined quantity of grease into the top roller bearings.
- Machine operates by single handle with dual function (1) Volumetric pressure to grease (2) Upward movement of arbour holding slide with arbour.
- About 2 kg grease tank capacity can grease about 175 top rollers per hour of ring / speed frame rollers.

Application:

This machine is used to grease required quantity in Ring/Speed frame top rollers with volumetric calibration system.



▶ Top Roller De-Greasing Machine / Six De-Grease *100% grease expelled*

Fascination:

- Fully automatic cycle.
- Two different types of sliding & powerful oil jet nozzles are provided for pinpoint, uniform flushing of top roller's arbour with pressure.
- Adjustable flushing time & auto off switch.

Application:

Ring Frame, Speed Frame top roller's arbour can be cleaned & dried thoroughly & effectively.



Top Roll De-Grease : SIXER

► Online Automatic UV Top Roller Treatment Plant

The extension of your Intuition

When you own an Online Automatic UV, you're surrounded by a legacy of safety innovation. Sabar Spinmatic engineer's pursuit never ends, with new breakthroughs designed to help predict and prevent accidents, and while an online Auto UV is equipped with safety innovation you might not see on other machines for years, it also keeps an eye on the future that's mere seconds in front of you.



Fascination:

- Completely online automatic UV treatment process for all types of top rollers.
- Up to 150 top rollers storage into Auto feeding box.
- 2kW UV lamp with high grade S.S. reflectors ensures short exposure of cot surface due to highly concentrated & even radiation intensity.
- Transformer along with power saver ballast & capacitor banks ensures no power fluctuation & long life of UV lamp.
- Crucial point, no direct contact of UV rays with human body thus prevents dangerous side effects of UV rays to the human body.
- Treatment time can be varied by VFD.

▶ UV Top Roller Treatment Machine

Effective Solution for Lapping



Normal UV



Twin UV

Fascination:

The accurate buffed top rollers are treated with UV rays for minimizing roller lapping tendency which ensures higher accuracy for top rollers & leads to best yarn quality.

	Online UV	Normal UV	Twin UV
Operating system	Automatic	Manual	Manual
Working range	All common top rollers	All common top rollers	All common top rollers
UV lamp	1 x 2000 W	1 x 2000 W	1 x 2000 W
Space required (LxWxH)	1778 x 610 x 1727 mm	1400 x 560 x 1420 mm	2800 x 560 x 1420 mm
Net weight connected load	450 / 700 Kg	375 / 550 Kg	700 / 950 Kg

▶ Spindle Lubricating Machine

Smart in works



Fascination:

- 3 tanks & 4 gear pumps system.
- Specially crafted two guns. i.e. 1. Topping gum
2. flushing gum
- Topping gun for inch perfect topping of oil into the spindle bolster with auto leveling system.
- Flushing gun for thorough flushing & cleaning.
- Dirty oil is collected in a third tank.

Application:

For pinpoint lubrication & cleaning of spindle bolster from neck bearing to foot step bearing.

Oil Tank capacity	Topping Tank	15 L
	Flushing Tank	20 L
	Dirty Oil Tank	10 L
Electric motor	Single phase, 0.5 HP, 1440 RPM	
Weight	Net/Gross: 150/250 kg	
Space Required	1016 x 510 x 1070 mm	

► Hydraulic Cot Mounting / De-Mounting Machine

Sturdy & Smooth in working



Fascination:

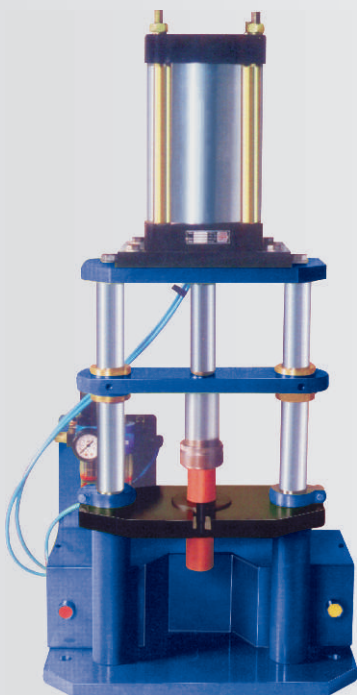
- **Vertical Zone:** For mounting & De-mounting of smaller cots like Ring frame, Speed frame rollers.
- **Horizontal Zone:** For mounting De-mounting of longer cots like Draw frame, Comer, Sliver lap etc.
- Crucial point, both zones are Hydraulically operated thus achieves 100% smoothness in performance.
- Working pressure can be adjusted according to the requirement.
- Without any operational constrain, operator can work together on both the zones.

Application:

Mounting & De-Mounting of all types of Cots like Ring frame, Speed frame, Comber, Ribon laps, OE cots, Normal or with Alucore can be done on the same machine without any disturbance.

► Pneumatic Cot Mounting / De-Mounting Machine

Speedy & Smart



For mounting & De-mounting of small rubber cots of Ring frame, Speed frame, O/E, Texturizing by means of pneumatic press.

► Hand Cot Mounting / De-Mounting Machine

Small & Sturdy



Economic solution for mounting & De-mounting of small rubber cots on Ring frame, Speed frame, O/E, texturizing top roller by means of manual operation.

► Flyer Cleaning Machine Model Air-O

Safe & effective cleaning



Fascination:

- Machine is operated by 7 Kg/cm² compressed air only & no electricity consumption.
- Completely dry cleaning process of flyer by the application of fine grit aloxite powder which when comes into the contact of atmospheric air, the corndum process takes place which forms transparent layer on any metal surface & protects the metal from further oxidation & ensures 100% cleaning as well as polishing of inner passage of flyer.
- Blasting & sucking process is accurately done by blast nozzle & exhaust nozzle respectively.
- After thorough cleaning of inner passage of flyer, aloxite powder moves towards the filtering system & gets ready for next operation thus due to recycling of aloxite powder, it ensures 100% economical process.

Technical Specifications:

Required compressed air	7kg/cm ²
Space required	610 x 660 x 840 mm
Weight: Gross	90 kg.
Net	50 kg.

► Twin Disc Hydraulic Mounting press, Lubricating device & all types twin discs

Accurate solution for Twin Disc



Fascination:

1. Hydraulic press:

Straight forward process for mounting & De mounting of twin discs by lever handle & fine tune pressing handle along with accurate jigs & fixtures, Self centering & locking facility.

2. Lubricating Device:

Separately provided lubricating device which ensures perfect lubrication of twin disc.

Technical data:

Operation	Manual
Operating range	For all types of twin discs
Space required	450 x 450 mm
Connection power	Not required. Complete manual operation.
Net / Gross Weight	75 kg / 105 kg

▶ Auto Flock Clearer Roller Cleaning Machine

True Concept of vibro unit

Fascination:

Machine is equipped with metallic wire brush & also a specially designed nylon bristles to clean the metallic wire brush along with vibro unit to ensure highest rate of cleaning of flocked rollers.

Operating System	Automatic
No. of Rollers can be loaded	250 - 300 Nos.
Max. size of Rollers to be fitted	OD 50mm x 150mm length
Feed rate / hour	800-1000 Rollers / hour
Overall size of the feeder	OD 762mm x 762mm height
Weight of the feeder	350 kg



▶ Clearer Roller Cleaning Machine

Powerful pneumafill system



Fascination:

- Powerful Pneumafill system: Incorporates specially designed motor driven axial fan and a brush roller with nylon bristles for specified applications. This machine cleans the fluff of the roller and collects it in a specially provided chamber.

▶ Flocked Clearer Roller Cleaning Machine

Great support for smooth spinning



Fascination:

- Equipped with metallic wire brush & also a specially designed nylon bristles to clean this metallic wire brush.
- Adjustable guide cover to clean all types of flocked rollers.

▶ Bobbin Roving end Opening Machine

Saving attitude effect

Fascination:

The machine has a coveryor belt for roving end opening system with adjustable bracket, suitable to feed 12 Nos Bobbins & dia. 80mm to 90mm complete with dust extraction unit.

D.C. Box Capacity: 0.4 m³



▶ Spindle centring device

Accuracy personified



Fascination:

- Electronics spindle centring device facilitates precise centring of spindles with respect to ring.
- Inch perfect centring can be done with the help of LED indications in X & Y directions.
- The machine works on mains or rechargeable battery & ensures accuracy to the tune of 0.025 mm.
- Thus this machine helps in reducing peak tensions, end breakages, prematured wear of ring & travellers & truly worth machine for your best spinning.

▶ Spindle Tape joining press

Easy & Efficient

Fascination:

- Flat type spindle joining press suitable for effectively joining the two spindle tapes.

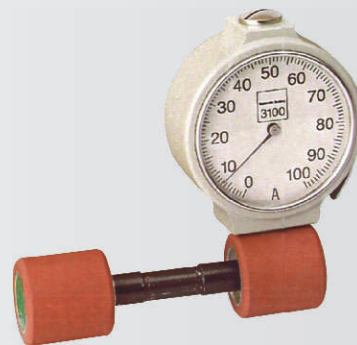


▶ Shore hardness tester

Handy test

Fascination:

- For checking hardness of rubber



▶ Gripper Membrane

Value for Import substitute

Fascination:

- Gripper membrane suitable for Rieter & Marzoli Auto Doffing Ring frame.
- Synthetic nitrile rubber along with 17 different chemicals composition ensures 100% trouble free & wear resistant performance.

Nilometer & Tarp gauge available.

Global Representation By:



SABAR SPINMATIC EQUIPMENTS

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