

**BRAND INDIA ENGINEERING
E-CATALOGUE**

Date: 18-01-2025

MECHANO (INDIA)

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**RAJESH KUMAR BHARTIA
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We would like to introduce ourselves as a Leading Maker, Supplier & Exporter of Textile Machineries (including TFO and Hank Yarn Mercerising Machines), Spare Parts & Accessories (Spinning, Weaving & Processing) from India to all over the world. In this line since 1964, we are recognized amongst our clients for Quality Products & Prompt Services. We are exporting to more than 65 countries in Europe, North America, South America, Africa and Asia, upto their entire satisfaction. We had a Booth in ITMA Milan, 2015. We are also having a Booth in ITMA Barcelona, 2019.


Products Description


Two For One Twisting Machine

Technical Details	Two For One Twisting Machine as per Buyers Requirement
ITC HS Codes	8445 30, 8445
Certification/ Standard	NA
Issuing Agency	NA
Date of Issue	01-01-2010
Date of Expiry	01-01-2025
End Use Sectors	Spinning, Weaving and Knitting Factories

Product Images

**2 FOR ONE TWISTER
E-FOR SHORT FIBERS**




MECHANO (INDIA)

Step in for
Leading Edge
Twisting
Technology

INDIAN ENGINEERING
CATALOGUE



- Machine construction offers long lasting maintenance free performance.
- Overload protection devices & smooth start.
- Self-aligning mechanism permits load take-up. The string parts are automatically lubricated by the oil pump for optimum performance.
- Low power consumption.
- Cradle pressure mechanism for uniform density.
- The range of movement of guide roller is very wide. This additional range allows operators to set winding tensions over a wide range, to suit diverse requirements.
- Overfeed Roller (if helps adjust take-up tension at ease)



OPTIONAL:

- Toting device - Diling device - Balloon Control ring - Winding device
- Gasless inverter driving system - Air threading for single layer (deck)
- Individual Spindle Brake - Automatic Cradle Lift Mechanism
- Inverter Drive System for Spindle Drive

Note :- Width & Height of the Machine will increase if opting for Auto Cradle Lift.

All Models also available in Double Layer (Deck) also.

TECHNICAL DETAILS
Two For One Twister Machine Four Spun Yarn - Single Deck

Technical Data	Model No. SP-110	Model No. SP-120	Model No. SP-140
Pin Diameter	110mm	120mm	140mm
Spindle Pitch	210mm	210mm	240mm
No. Of Spindles / Section	14 Nos.	14 Nos.	12 Nos.
No. Of Spindles	168	196	168
Connected Power In HP	7.5 HP	10 HP	15 HP
Section Length	1500mm (4.92 ft)	1500mm (4.92 ft)	1400mm (4.59 ft)
Gear End Length		675mm (2.21 ft)	
Drive End Length		1500mm (4.92 ft)	
Machine Width		750mm (2.46 ft)	
Machine Height		1600mm (5.25 ft)	
Form Of Operation		Double Sides - Single Deck	
Spindle RPM		Max. 10000 RPM	Max. 8000 RPM
TPI Range			
Machine Start Mode		Slow Start by Star Delta Electric Panel	
Tension Device		Steel Ball / Capstan	
Spindle Drive		Tangential Belt Drive	
Spindle Brake		Hand Brake Provided	
Max. Feed Package	Up to 600 gram	Up to 900 gram	Up to 900 gram
Max. Take Up Package	2.5 Kg.	2.5 Kg.	2.5 Kg.
Take Up System		M.S. Cradle with Spring loaded Tension	
Feed Tube Size		30mm OD x 1.0mm I.	
Take Up Size		3.30" x 4.30" x 5.33"	

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Hank Yarn Mercerising Machine

Technical Details	Hank Yarn Mercerising Machine as per Catalogue attached
ITC HS Codes	8451
Certification/ Standard	NA
Issuing Agency	NA
Date of Issue	01-01-2010
Date of Expiry	01-01-2025
End Use Sectors	Spinning, Weaving and Knitting

BRAND INDIA ENGINEERING
HANK
MERCERIZING MACHINE
MECHANO (INDIA)

Product Images



MECHANO BRAND hank yarn mercerizing machine equipped with completely new electronic control brings in new concept in mercerizing. The speed is varied and controlling the concentration of caustic soda and pulp strength for mercerizing.

The process can be modified to the customer needs based on Embroidery, socks, Sewing thread.

The double mercerizing sequence is done by changing the parameters in the PLC.

The operational parameters are displayed in the touch screen. The machine construction is sturdy and simple. The squeezing done by hydraulic cylinders provide even squeezing.



Machine Type Costil mm-5

Weight of yarn charge	: 5.00 kg
Duration of cycle time	: 200 secs
Production/hour	: 90 kg
No. of attendants	: 2
Normal hank length	: 137.1
Max. stretch length	: 138 mm
Min. stretch length	: 128 mm
Min. stretching force	: 70 kg / cm ²
Max. squeezing Pressure	: 30 kg / cm ²
Charging length of rollers	: 580 mm x 4
Consumption of Lye	: 480 gms /
Consumption of water/kg	: 12 lit
Power	: 4.5 kw
Net weight	: 2500 kg

User friendly trouble free hank yarn mercerizing machine. Sodium hydroxide filtration and dosing system for uniform mercerization. Less water consumption compared with other machines. Easy to install anywhere. There is no extensive civil work required.

Entire machine is controlled by PLC controller. With the help of user friendly mercerizing parameter can be kept as per requirement for different qualities of yarn. Oil based hydraulic system for smooth operation and no corrosion.

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Tray material: SS304
ARCOW Valve for Lye
100 Micron Abrasive Filter
Panel Board with DELTA PLC & COLOUR DISPLAY
1 KVA TB TANK FOR FILTERED LYE STORAGE
OIL HYDRAULIC POWERPACK FOR ALL MOVEMENTS
SQUEEZING RUBBER ROLLER WITH SHORE HARDNESS
BALL BEARING VERTICAL FLOAT SWITCH
VERTICAL PUMP 1 HP FOR LYE RECIRCULATION & FILTRATION
CENTRIFUGAL PUMP WITH MECHANICAL SEAL 1 HP
DRIVE MOTOR COUPLED WITH GEARBOX 0.5 HP
LYE DOSING SYSTEM TO MAINTAIN UNIFORM LYE STRENGTH

EXCLUSIONS
Water Tank
All Electrical/Cable Work
All pipe line work (Lye/Water)
Any other item not mentioned in this offer

2) Each set you can select the different parameters and operating sequence.
3) You can select the different parameters and operating sequence possible for an arbitrary path.
4) Lye dilution is available up to 100 micron thereby lye purity is assured.
5) Lye dosing system does the required chemical cycle and the concentration is uniform.
6) PLC programming enables you have the liberty to change lye integration/squeezing and roller wash.
7) Yarn loading done by hand instead of shovel.
8) There is no excessive coil each required.
9) Vary the yarn stretch, yarn thickness depending on count pattern.
10) Low water consumption for hot water 80°C bath of yarn.
11) Low residual alkalinity after washing.
12) Total wash water contains 5-10 TW and completely evaporated in the evaporator and both condensed water and conc. alkali recycled.
13) If require each water is evaporated in the evaporator to achieve zero discharge from the machine.
14) If require Lye Refrigeration provided and the process done at 10-20°C.

TECHNICAL SPECIFICATIONS :

1) Machine Model	MECHANO MM-5
2) Weight yarn per charge	5 Kg
3) Duration of each working operation	320 Secs (Variable) for Double Mercerisation
4) No of cycles per day on the basis of standard timings is 320 Secs/Cycle	24x60 6.0 = 240
5) Total Production at efficiency	240x60 = 12000 Kg
6) Achievable production per day @ 90% efficiency	10800 Kg
7) Normal hank circumference	137.1 cm (or) 54 Inch
8) Maximum stretch length	139.7 cm (or) 55 Inch
9) Minimum stretch length	110 cm
10) Minimum distance apart of hank roller while charging	28 cm
11) Maximum stretch force	12000 Kgs
12) Maximum squeezing pressure	3000 Kgs
13) Working length of yarn rollers	590 mm
14) Diameter of yarn rollers	150 mm
15) Consumption of lye (NaOH: 100% per kg of yarn)	480 gms
16) Consumption of hot water@80c	8 Liters/kg (or) 15 Liters/kg normal water
17) Mercerizing operation sequence	Controlled by user friendly PLC Programming
18) Diameter of squeezing roller (Rubber roller)	150 mm
19) Speed of yarn roller	10 RPM
20) Total power requirement (Installed Capacity)	6.0 HP/4.5 KW
21) Net weight of machine	2200 Kg
22) Gross weight of the machine	2500 Kg
23) Volume of the machine	13.12 cubic metre
24) Machine dimension	10200 mm x W1600 mm X L4100 mm (Approx)
25) Working floor area	2600 mm x 4100 mm (Width x Length) (Approx)

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Spinning and Weaving Accessories

Technical Details

Spinning and Weaving Accessories like Shuttles, Pirns, Heald Frames, Heald Wires, Drop Wires, Leno Healds, Reeds, Beams, Ring Tubes, Dye Springs, Sulzer Loom Spare Parts, Dornier Loom Spare Parts, Rapier Loom Spare Parts and other Accessories. We also make parts as per Client requirement.

ITC HS Codes

8448

Certification/ Standard

NA

Issuing Agency

NA

Date of Issue

01-01-2010

Date of Expiry

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End Use Sectors

Spinning, Weaving and Processing

Product Images

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Sectors of Interest

TEXTILE INDUSTRY

BRAND INDIA ENGINEERING E-CATALOGUE

Countries of Exports	MORE THAN 65 COUNTRIES (EUROPE, NORTH AMERICA, LATIN AMERICA, SOUTH AMERICA, AFRICA, ASIA)
Foreign Collaboration	NA
Is OEM Supplier?	No
Is After Sales Service Provider?	Yes
Importance of niche products	We are manufacturing High Quality Products which are upto the Clients entire satisfaction. We believe in Quality and Service.
Potential market of niche products	All over the world in Textile Industry
Product Supply Record	Established in 1964, we are exporting to more than 65 countries throughout the world.
Patented Technologies	NA
Awards/Accolades	We participate in many major Textile Trade Fairs around the Globe. We always have a booth in ITMA, Europe and will also be present in ITMA, Barcelona, Spain.