

Since 1956

PATCO

Precision . Performance . Perfection

PATCO

PATCO EXPORTS

**Manufacturers & Exporters of
Textile Machinery & Spares**

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CARD ROOM | ROLL SHOP | GARMENTING

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About us

PATCO specializes in production of world class Textile Machinery & Replacement Spare Parts since 1956. Over the years we have built strong relationships with our valued customers worldwide based on the foundation of trust and integrity. Whether it is our manufacturing process or our after sales support, we are committed to deliver only the highest quality products and services to our customers.

Our Mission Statement

To retain our position as a Leading Indian Manufacturer and Exporter of Textile Machinery & Spares. To meet with aspirations of customers in global markets, achieved through on-time, zero defect supplies backed by responsive service, vendor partners and satisfied investors.

Our Vision

To bring High Quality, High Technology based products at affordable prices to the world of Textiles. We shall strive vigorously to delight our customers who are our very purpose, by pursuing excellence and innovation through committed team work. Hence, whenever you are seeking a purchase or solution for your Textile Machinery, do contact us and let us put our expertise and knowledge to work for you.

Our Range of Machinery

CARD ROOM MACHINERY

- Multi Roller Wire Mounting Machine
- Licker-in Wire Mounting Machine
- Metallic Wire Mounting Machine
- On-Card Wire Grinding Machine
- Automatic Flat Grinding Machine
- On-Card Flat Grinding Machine
- Flat Clipping Machine
- Flat Top Tear-off Machine
- Flat End Milling Machine
- Traverse Wheel Grinding Machine

ROLL SHOP MACHINERY

- Auto Feed Cot Grinding Machine
- Hydraulic Cot Grinding Machine
- Eccentricity & Taper Tester
- Hydraulic Cot Mounting Machine
- Top Roller Greasing Machine
- Arbour Flushing Machine

Roll Shop Machinery

- Rubber Cots U.V. Treatment Machine
- Clearer Roller Cleaning Machine
- Fluted Roller Truing Machine
- Spindle Oiling Machine

Roving Recycling Machinery

- Automatic Bobbin Stripping Machine
- Roving Stripping & Opening Machine
- Roving Waste Opening Machine

Card Room Accessories

- High Speed Coilers
- Hydraulic / Electric Bale Press

Garmenting Machinery

- Fabric Inspection Machine
- Fabric Folding Machine
- Fabric Rolling Machine
- Sample Cutting Machine



Multi Roller Wire Mounting Machine

- Basic frame working width from 1600mm to 3000mm lengths on request.
- Suitable for Cylinder wire and Doffer wire, feed roll and Re-Directing Roller Wire, Blow Room Beater Wire, Licker-in Wire interlocking and Grooved type.
- The machine has Grinding attachment to grind off the high spot of wire on mounted Rollers.
- Interlocking attachment fitted on traversing slide with bearing guidance systems. Safety lock one way provided, wire tension indicator with tension plate for Cylinder, Doffer, interlocking wire for Licker-in, for web transfer roller wire.
- The drive unit is fixed on 3 support bars, A.C. variable drive control to A.C. Gear motor from remote control, 3-Jaw Chuck for easy mounting on different Shaft (upto 75mm).
- Single Phase operation, connecting load 0.75kw.

Licker-in Wire Mounting Machine

- Licker-in wire rollers with bearings, can be directly mounted on the M/c.
- Easy removal of old wire from licker-in.
- Burnishing rollers are provided to clean roller and burnish licker-in wires.
- With simple and effective mounting arrangement the wire is well caulked.
- Machine is provided with plugpoint for soldering of licker-in wire.
- Tool post grinder fitted on traverse screw grinds off the high spots of licker-in wires.



Metallic Wire Mounting Machine

- Mounting Head Assembly**
- Suitable for 40° & 60° Cards
 - Mounting head travers on bearing with one way safety lock arrangement.
 - Wire tension indication with tension plate with harden guide rollers.
- Drive Unit**
- A.C. geared motor can run with A.C. variable device with remote control.
 - Suitable for all diameter of Shaft (upto 75mm) clamp with help of 3 jaw chuck.
 - Connecting load : 0.7 Kw.

Old Wire Unwinding Machine

For removal of old wires from cylinder and doffer.



Butt Welder

Micro Butt welder for welding of wire.





Pneumatic On Card Wire Grinder

- On Card Wire Sharpening.
- No Down time.
- Allows proper sharpening which retains it's original profile.
- Adjustable Stone speed as per requirement of the Cylinder speed.
- Stone touches each and every wire points during traverse.
- Compressed air only required for driving.
- Eliminates manual cleaning.
- Easy to assemble and easy to use.
- Available for 40" & 60" wide cards.



Bare Cylinder Grinder

- Accurately grinds cylinders, ensure longer life of metallic wire and uniform carding-throughout the width.
- Ensures precise ground clothing.
- Key to the production of high quality yarn.



Soldering Iron



Motorized Traverse Wheel Grinder

- This machine grinds off the variation to +/- 1/1000 ensuring accurate setting between Cylinder and Flat Tops.
- Improves Carding quality.
- Connecting Load: 0.5 kW
- Suitable for all makes of Cards.

Card Bend Grinder



- High grinding efficiency.
- Easy to maintain and handle.
- Replacement of stone is easy and economical.
- Perfect dressing tool ensures uniform performance always.



Automatic Flat Grinder

- Grinding accuracy of +0.02 mm ensures a meaningful improvement in yarn quality.
- Grinds 3 flats at a time with Ceramic Grinding roller. A set of flats can be ground within just a few hours.
- The powerful suction unit fitted in the machine ensures collection of dust particles.
- A one-shot lubrication system ensures smooth running.
- Machine standard accessories : Control device with dial indicator for checking of ground flats. Dressing attachment, one set setting plate suitable for one make of card.
- Available for 40" & 60" cards of any make.
- Different seating plates available for different make of flats.



Pneumatic On Card Flat Grinder

- On Card Sharpening
- No Down time.
- Allows proper sharpening which retains it's original profile
- Remove impurities from tops and clean perfectly.
- Eliminates manual cleaning.
- Easy to assemble and easy to use.
- Traversing head emery roller on card flat tops grinder.
- Available for 40" & 60" wide cards.



Grinding Roller



Cleaning Roller



Flat Clipping Machine

- A choice of pneumatic or spring loaded arrangement which gives you performance plus profit combination.
- Suitable for all flats, 37" to 45" wide and also for INGOLSTADT 60" wide flats.
- The clamping slide clips the flat tops smoothly and effectively and returns to starting automatically for next morning.
- Simple design and robust construction of machine meets all demands of accurately mounted flat tops for modern high production cards.



Clipping





Pneumatic Flat Top Tear Off Machine

- Quick and easy removal of used Flat Tops from Aluminum & C.I. Flat Bars.
- Machine controlled by fully Automatic PLC.
- Connecting load: 1.5 kW
- Suitable for 40" & 60" Cards.

Flat End Milling Machine

- Easy Milling of worn out 40" & 60" Flat ends, brings the original accuracy of Heel & Toe after milling with fixed cam mechanism.
- We supply control device with Dial Indicator for checking flat end.
- We supply one set cam suitable for one make of card.
- Extra: Pneumatic Flat clamping system.
- Connecting load: 1.13 kW



Pneumatic Clamping System

On Card Flat Grinding Roller

- With emery fillet for Re-sharpening of Flat Clothings (Tops) on the card.
- Saves time as the flats need not be removed from the card.
- Easy installation and operation on the Card.
- Drive by motor assembly with bracket for Cut Feeding arrangement.
- Connecting load: 0.75 HP
- Available for both 40" & 60" Cards



Cot Grinding Machine with Auto Feeding

- Hydro-pneumatically operated and PLC controlled system, fully automatic smooth auto feeding, arrangement for Ring Frame, Speed Frame cots used in cotton, synthetic, blended or woolen mills long cots used in Draw Frame, Comber, sliver lap former, Ribbon Lap former etc. are ground between center grinding attachment using 25mm width grinding stone.
- Ring frame & speed frame cots are ground on center less grinding attachment using 200mm grinding 60 or 80 grit stone.
- Production capacity 320 to 360 top rollers per hour (approx).
- High surface accuracy can be achieved at higher production rate. Taper grinding system is provided for longer detaching roller cots.
- Machine is equipped with highly efficiency dust extraction unit to collect rubber dust during grinding operation.



Hydraulic Cot Grinding Machine

- Fully Hydraulic operation and electronically controlled system for setting the time required for arbour grinding and replacement.
- Suitable for all types of top roller used in Cotton, Synthetic, Blended, Woolen mills for Draw Frame, Comber, Sliver lap, Ribbon Lap, Speed Frame & O.E. Cots.
- The cots of Ring / Speed Frame are grind with center grinding attachment with electronic timer. Production capacity is about 350 to 400 top rollers per hour.
- High accuracy can be achieved at high production. Taper grinding system is provided for longer cots.
- Equipped with highly efficient dust collection unit to collect rubber dust during grinding.



High Production Cot Grinding Machine

- Hydro-Mechanically operated controlled system, suitable for all types of top rollers used in Cotton, Synthetic, Blended, Woolen mills for Draw Frame, Comber, Sliver Lap & O.E. cots.
- Grinds the Ring / Speed Frame cots on center less grinding with 200mm width stone. The long cot can be grind with center-grinding attachment with 25mm width stone.
- Production capacity 200 to 250 top rollers per hour.
- High accuracy can be achieved at high production. Taper grinding system is provided for longer cots.
- Machine equipped with highly efficient dust collection unit to collect rubber dust during grinding.





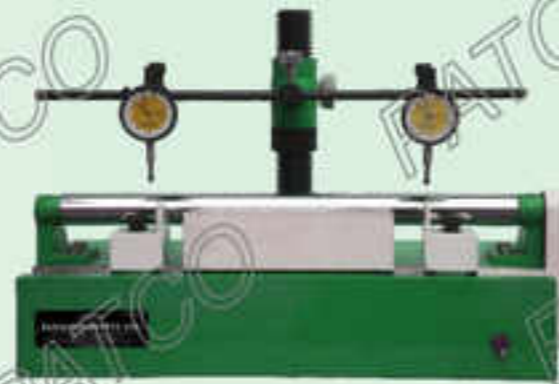
Cot Grinding Machine

- This Machine works on Hydro-mechanically operated system, suitable for all types of top roller used in cotton, synthetic, Blended or Woolen mills, Draw Frame, Comber, Silver lap, Ribbon Lap & O.E. cots.
- Grinds the Long cot with center grinding arrangements with 25mm width grinding stone.
- High surface accuracy can be achieved at higher speeds.
- Taper grinding system is provided for longer detaching roller cots.
- Machine is equipped with highly efficient Dust extraction unit to collect rubber dust during grinding operation.



Eccentricity & Taper Tester

- This machine is suitable for checking all types of top roller like Ring & Speed Frame and Long cots.
- Eccentricity can be inspected by electric drive at any particular point on the top roller.
- Testing dial can be adjusted.
- Simple in operating.



Hydraulic Cot Mounting Machinery

- Machine is operated with high pressure hydraulic system for Mounting & De-mounting of aluminum core cots of Comber, Draw Frame, Silver lap, Ribbon lap & O.E. cots.
- Separate Pneumatically operated unit provided for Mounting & De-mounting of Ring Frame, Speed Frame & O.E. Cots.



Vertical Cot Mounting Machine



Horizontal Cot Mounting Machine

Hand Operated Cot Mounting Machine



This machine is suitable for Mounting & De-mounting of Ring frame, Speed frame and O.E. cots.

Pneumatic Cot Mounting Machine

Pneumatically operated machine suitable for Mounting & De-mounting of aluminum core cots, easy fit cots and normal cots for Ring frame, Speed frame and O.E. cots.



Manual Top Roller Greasing Machine

- This machine is operated by a single handle with dual function. When pushed, the arbour is pushed upwards towards the nozzle which pumps the grease to the arbour.
- Grease tank has 2Kg capacity.



Automatic Top Roller Greasing Machine

- This machine is operated electro-pneumatically for all types of top rollers of Ring frame & Speed frame, both sides greasing at a time.
- Production is upto 600 - 775 arbours per hour.



Automatic Arbour Flushing Machine

- This machine flushes and cleans one arbour at a time with two powerful oil jets.
- Arbour is rotated while cleaning and a fully automatic cycle which is electrically operated.



Ultra Violet Top Roller Treatment Machine

- The Ultra Violet Top Roller Treatment Machine is in compliance with international industry standards. It is used for treatment of cots to control lapping tendency.
- Machine is dynamically balanced and comes with a surface ground finish. Our product is widely accepted among clients for its strong construction and superb performance.
- UV Top roller cot treatment machine embodies an ultra violet lamp of European make and 2 kW capacity with Automatic Timer.
- The rubber cots & rollers are placed in a tray which fits directly under the lamp.
- Batch load capacity of tray is 10 draw frame cots or 70 ring frame cots of standard size.
- The rollers get constant rotation for maintaining uniform treatment. A convex reflector converges back all rays for better irradiation treatment of cots.
- An exhaust fan maintains proper circulation of air inside.
- More effective and safer than other chemical treatments.



Pneumatic Cot Calendaring Machine

- Removes trapped air bubbles from mounted long cots of Draw frame, Comber, Sliver, lap & Ribbon lap.
- After mounting revolving cot rolls are put under pressure by pneumatic cylinder to remove the air bubbles & sinkers of cots.
- Motor driven without air compressor.



Hydraulic Fluted Roller Truing Machine



Fluted Roller Truing Machine

- This machine is designed for accurate identification of eccentricity & rectification (straightening) of Fluted Rollers of Draw Frame, Comber, Speed frame, Ring Frame, Eccentric Rollers, Rods & Bars.
- One dial Indicator is fixed on an adjustable bracket moveable on the horizontal rod. This facilitates checking eccentricity of different types of rollers without removing the them.
- Truing diameter up to $\Phi 40$ mm & to shaft length.
- Hydraulic operated press Hydraulic pump delivery: 6 liters per minute.
- The Manual version is equally easy to operate with easy holding and straightening of roller.
- Suitable for worsted spinning as well.

Manual Fluted Roller Truing Machine



Clearer Roller Cleaning Machine

- This machine has a motor driven brush roller for cleaning clearer rollers which thoroughly cleans the Fluff from the roller and collects in a chamber provided by a unique suction device.
- The Fluff collected can be easily removed from the chamber.
- The roller comes out from the other side completely cleaned automatically.
- The guide is adjustable to fit on different diameter of clearer rollers.

Flocked Clearer Roller Cleaning Machine

- Suitable for Ring Frame, Clearer Rollers & Flocked Roller cleaning.
- The rollers are cleaned with brush rollers without damaging the fibers on the roller.
- Suction fan is provided to suck cotton fluff from bristles of the roller.
- The machine is easy in operation and maintenance with high efficiency.
- Electrically operated model also available.



Spindle Oiling Machine

- This machine ensures triple action performances: Cleans, Flushes and Tops the bearing in the Spindle Bolster.
- The bearing in the bolster is flushed by a high pressure flash of oil with one stroke of the gun.
- This flushed oil is sucked back into the tank by the same gun with second stroke.
- Machine has 3 oil tanks, each tank of 15 liters, one separate tank for dirty oil.



Automatic Bobbin Stripping Machine

- Reduces handling, storage and transportation of Bobbins / Pirns.
- Elimination of the dangerous "Hand-Knife" process.
- Minimum maintenance cost.
- Trouble free easy operation.
- Bobbin Dia: 22mm to 32mm, Length 175mm to 300mm
- Types of Bobbins: Paper/Plastic, Warp bobbins and Plain Auto Weft Pirn.
- Types of Yarn: Cotton / Synthetic
- Operation: Automatic
- Production Capacity: 3000 bobbins/hour Approx.
- Power Requirement: 1.5 H.P.
- Size in mm: L 1975 x W 785 x H 1100 Approx.
- Weight: 850 Kg. Approx.



Roving Bobbin Stripping & Opening Machine (Conveyor Belt Operated)

- Machine will self strip the bobbins; no cutting is required like conventional machine, no scratches or cuts on the bobbins for longer life.
- Machine perfectly opens fibers, the fibers can be thereafter feed in the mixing.
- Quick stripping and opening, reduction in stock of the bobbins.
- 12 Bobbins opening at a time with variable speed mechanism.
- Production capacity: 600 Bobbins per hour (depends upon the bobbin content)
- Bobbin Length: 450mm Maximum
- Diameter of Roving: 80mm Maximum
- Type of Material: Cotton, Polyester, Blended Fiber
- Fan Motor: 1.35 k.W. (1.5 H.P.)
- Feed Roller: 0.75 k.W. (0.5 H.P.)
- Strip Roll Motor: 1.35 k.W. (1.5 H.P.)
- Size in mm: L 3300 x H 1750 x W 975
- Weight: 710kg. Approximate



Roving Stripping & Opening Machine (Pneumatically Operated)

The evacuated rovings are thoroughly opened by applying compressed air current as a medium. This ensures that there is no physical damage to the fiber and bobbin as well. The rovings can be effectively used as fresh raw material without affecting yarn quality. The operation is more scientific and requires less labour.

Features:

- Fully contained unit with stripping of the roving bobbins and opening of the fiber.
- Variable unwinding speed to suit various material and twist parameters.
- Simple operation and occupies less space.
- No. of bobbins: 6 bobbins
- Production Capacity: 12 to 18 kgs/hour approximately
- Power requirements: 220 V Ac, 1 Phase 50 Hz, 0.5 HP
- Compressed Air: Clean & Dry 5 to 6 Bar, 0.15-0.25 cu.m/m
- Size in mm: L 1525 x W 1325 x L 1110 Approximate.
- Weight: 280 Kgs. Approximate.

Roving Waste Opening Machine

This Machine opens Roving Fibers thoroughly. It consists of a Feed table, Collecting Roller, Feed Roller with Piano type Paddel Lever, Pinned Lags Beater, Perforated Cage of Delivery Roller, Conveyor or Wooden Lattice.

Technical Details:

- Type of Material: Cotton, Synthetic, Various Blended Fibers & Natural Fibers.
- Production: 30 to 40 Kgs / hour
- Working Width: 500mm
- Size in mm: L-3600 x W-1200 x L-1100 Approx.
- Power: 3 H.P. Beater Roll, 1 H.P. Conveyor Lattice
- Weight: 800 kgs. Approximate.





High Speed Timing Belt Driven Coiler

- This coiler is high speed with completely based on Timer belt drives to ensure noiseless and maintenance free working of the machine even at 300 mts/min delivery speed.
- Suitable for Rieter, Trutzschler, Marzoli and all other card makes.
- Can size 42" Dia x 42" or 48" Height.



Timing Belt Driven Coiler

- Completely on Timer belt drive.
- Ensures noiseless and maintenance free working even at delivery speed of 300mts/min.
- Available for can size of 24" Dia x 40-42" Height.



Hydraulically Operated Bale Press

- Capacity from 45 tons to 100 tons.
- Hydraulically controlled press.
- Bale Size: 1220mm x 610mm x 700mm
- Bale weight: 100 to 180 Kgs
- Production rate of 15 to 20 mins per bale.
- Electrical motor of 15 HP/ 1500 RPM
- Approx weight 2.5 tons.



Automatic Can Changer

- Our Timing belt driven coilers can be converted to Automatic High Speed Can changer as a Retrofit.
- This mechanism is for changing coiler cans so as to remove a full can from the coiler head and replace it with an empty can.



Electrically Operated Bale Press

- High Operating Efficiency.
- Pressing Capacity: 20 - 50 tons.
- Bale weight: 100 - 180 kgs
- Production rate of 15 - 20 bales per minute.
- Bale size: 1050mm x 610mm x 700mm
- Electric motor of 5HP, 1440 RPM, 50Hz 3 Phase
- Approx weight of 1 ton.
- Easy installation and operation.

Tappet Shedding Rapier Loom



Working Width	150cm :: 165cm :: 170cm :: 190cm
Machine Dimension	341cm 352cm 366cm 381cm
Main Drive	1.5 kW Electro Magnetic Brake Motor
RPM	Upto 250 RPM
Weft Insertion Speed	Upto 450 m/min
Shedding Device	Positive by Tappet Cam
Weft Selection	Pick and pick selection by mechanical / Electronic Selection Up to 8 Colours
Weaving Selection	Filament yarn 20 to 2000 denier Spun yarn 2's to 120's
Control/brake system	Warp : infrared, / Electric Drop Pin Weft : Piezoelectric sensor
Let off	Mechanical Positive Zero Max / Electronic (Optional)
Let off Beam Dia	Up to 600 mm
Take up	Anti Start Mark Mechanical 7 Wheel Semi positive - 5 Roll / Electronic (Optional)
Cloth Roller Dia	Up to 400 mm
Selvedge	Independent Leno selvedge / Thermal Cutter(Optional) / Tuck in Device (Optional)
Suitable Yarns	Spun, Mono, Filament, Silk, Flat, Viscose, Slub, Roto, Nylon, Beberg, Catonic, Acrylic, Glass Fiber and Industrial Yarns.
Temple	Ring type cylinder with pin.



William Type Under Pick Loom

Reed Space	56" (142 CM), 68" (170 CM)
Reed	Fast Reed / Loose Reed
Shedding	Cone pulley type Tappet Shedding
Pick	Under pick
Shuttle Box Motion	1x1,2x1,4x1
Driving	Individual motor
Handle	Right & left
Weft Fork	Side fork system
Letting Off	Negative
Taking Up	7 wheel take up motion

Salient Features:

- Easy maintenance Smooth & vibrant free
- Minimum stoppage time
- Sturdy slay & reed cap
- Ample space for fitting warp stop motion
- Perfect finish for elegant appearance
- Require less spare parts & accessories

William Japan Type Under Pick Loom

Reed Space	56" (142 CM), 68" (170 CM)
Reed	Fast Reed / Loose Reed
Shedding	Cone pulley type Tappet Shedding
Pick	Under pick
Shuttle Box Motion	1x1,2x1,4x1
Driving	Individual motor
Handle	Right & left
Weft Fork	Side fork system
Letting Off	Negative
Taking Up	7 wheel take up motion





Fabric Inspection Machine

- For Fabric width upto 3500mm.
- Speed variations and Reverse - Stop - Forward arrangement through A.C. Inverter.
- Unwinding by means of pressure roll assisted with twin Pneumatic cylinders, AC motor & Gear box.
- 3" dia guide rollers.
- Revolution type meter counter.
- Winding & Unwinding both on opposite side.
- Transparent and inclined inspection table with top and bottom illumination.
- Strong built closed side frames to withstand and width and weight of the fabric.

Single Double Cloth Folding & Plating Machine

- For Fabric width upto 3500mm.
- Working table descends upto 15° in height.
- Cast iron side walls are closed to make machine robust and sturdy.
- Compensating device to release the cloth tensionless and without curls creases.
- Length of folds can be regulated from 1 mtr to 1.2 mtr (on request).
- Folding blades are mounted on the carriage of special steel roller chains.
- Doubling controlled manually or automatically following selvages.
- A mechanical or automatic table lowering device to lower the folding table at each folding operation. This system is regulated manually in order to adopt the machine to any kind of fabric.
- Stroke type length counter with manual setting or digital counter.
- Driven by motor of 2HP and speed upto 50mtrs/min.



Fabric Rolling Machine

- Suitable for Fabric width upto 3500mm.
- Used to Roll folded cloth in single width on paper & PVC pipe.
- Batching roller (4.5" Dia) with rubber strips.
- Revolution type meter counter.
- Rolling upto 200mtrs.
- 3 HP electric motor with pulley and starter.
- Speed upto 40 mtrs/min.



Sample Cutting Machine

Automatic Sample Cutting Machine

- This machine is motor driven with electric motor of 2HP.
- Cutting length upto 24", 32", 36"
- Cutting height: 50mm
- Cutting rate: 10 strokes per minute.
- After each cutting stroke the cutter returns and motor stops.



Manual Sample Cutting Machine

- Blade Size 13"



Hydraulic Trolleys



Top & Bottom Warp Beam Hydraulic Trolley with Harness Mounting Device



Flexi Beam Trolley For Narrow Alleys



Cloth Batching Trolley

Hydraulic Top Beam Trolley for Towel Looms with Telescopic System



Hydraulic Heavy Beam Trolley



Hydraulic Hand Pallet Truck

