



TECHNICAL DATA

Total Length	35-60 m Varies as per No. of washbox
Total Width	RW + 2000 mm (expact applier)
Working Width	up to 3400 mm
Roller Width	up to 3600 mm
Mechanical Speed	up tp 100 m/min
Heating Medium	Steam
Fabric Content on Bed	up to 1200 m
Reaction Time	up to 20 m
Tight Stand Passang	50-80 m
Process	Desizing, Bleacing

SALIENT FEATURES

- Crease-Free Treatment.
 - Low water and energy consumption.
 - Suitable for All types of Woven fabrics.
 - Reproducible results.
 - Easy Maintenance.
 - Touch User-Friendly monitoring and control panel.
- Waste Water Heat Exchanger.**

 - Counter Current Principle.
 - Waste water heat recovery.
 - Inlet fresh water Temperature retention.

Note: The details given in the leaflet cannot be considered as binding. Technical Indications are infinitely variable.



OFFICE
Nr. Anup Estate, B/H Bharat Party Plot,
Highway Road, Amraiwadi, Ahmedabad-380026 (Gujarat)-INDIA

FACTORY
Block No. 564/565, B/H Sawan Hotel, N.H No. 8,
Village Kanera- 387540. Dist: Kheda (Gujarat)-INDIA

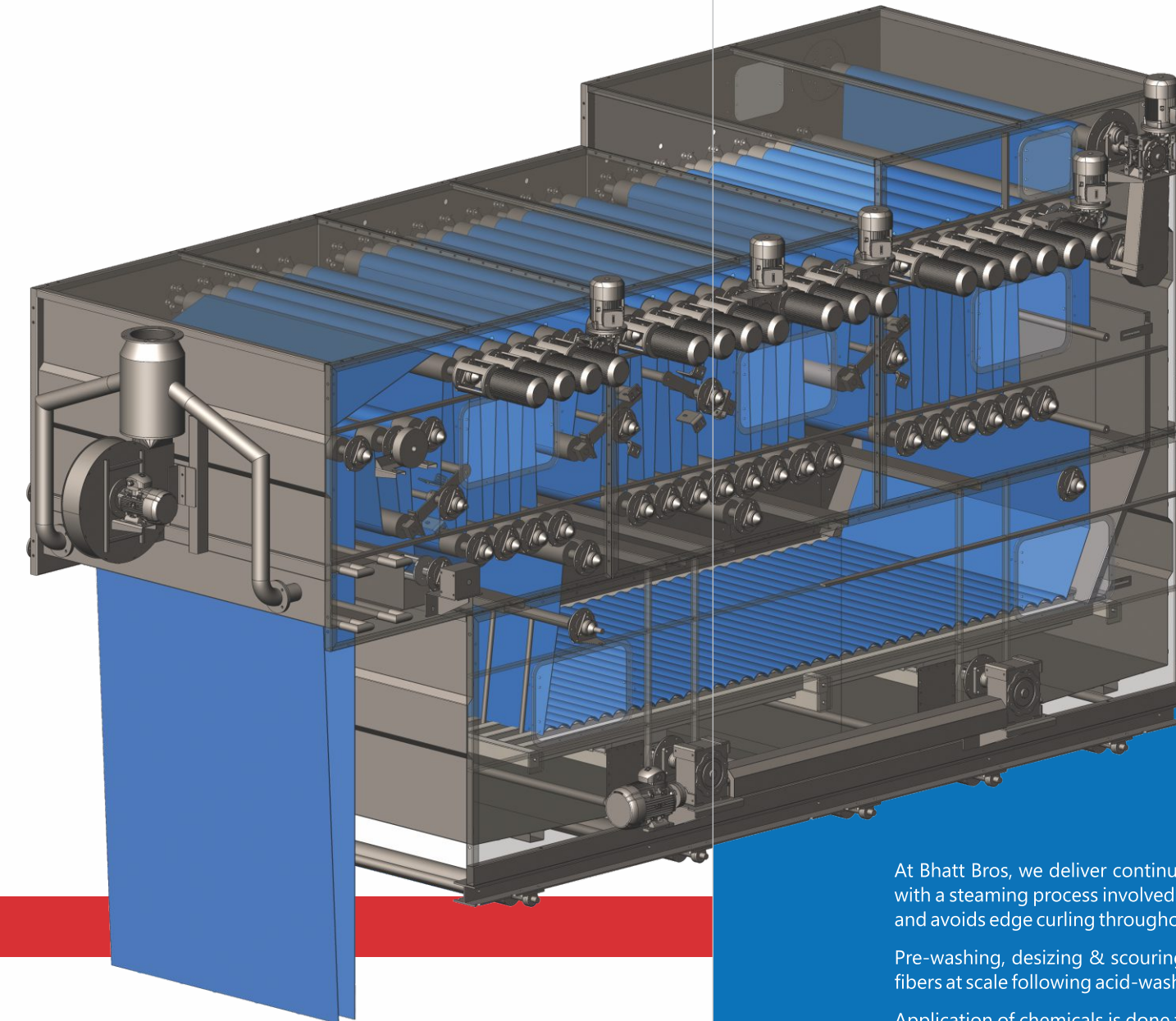
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CONTINUOUS BLEACHING RANGE



CONTINUOUS BLEACHING RANGE

At Bhatt Bros, we deliver continuous pre-treatment concepts which comprises bleaching in a single cycle with a steaming process involved. Our controlled engineering and progressive drives allow length retention and avoids edge curling throughout the sequence.

Pre-washing, desizing & scouring can be incorporated at the first step for removal of lint, impurities and fibers at scale following acid-wash for the fabric to reach its absorbent state.

Application of chemicals is done through our Sequential Applicator which provides continuous, controlled, adjustable liquor application via dosing station. The dosing station consists of five different types of chemicals to be applied. Flow control Valves and suction pumps meters the chemical dosing followed by intricate squeezing ensuring sufficient absorption before dwelling time.

The Steamer comprises of rollers which allows the fabric to pass in a tight form before it plaits on a tubular conveyer. The tubular conveyer ensures no dry-up marks or fold marks and accertains better dwelling passage in comparison to the roller bed. The dwelling time can be adjusted from five to twenty minutes by controlling the speed of the conveyer. Our steam saturation system is highly dependable on our capacity of water reservoir which equalizes the steam while ensuring temperature as well as moisture content during different fabric runs. At the end of the conveyer, the sensors notifies the cloth guiders to gently provide guidance followed by scroll rollers which allows fabric to run on a tight form ensuring no edge curling.

After each washing compartment, fabric is successively squeezed in perfectly spread-out condition. Acid-washing can be provided for the neutralization of textile or wet-to wet application can be incorporated for further treatments.

Our Waste Heat Recovery Unit is a heat-exchanger that recovers heat by the principle of applied thermodynamics of convection while transferring it into a working medium.

BLEACHING
DESIZING

Drum Washing Compartment.

Drum washing compartment is one of the most optimum washing compartment which is suitable for pre-treatment and post-treatments for tension sensitive fabrics.

Two perforated drums mounted parallel on each other allows washing on low tension with the aid of rotors that splashes wash liquor on both upper and lower side of the fabric.

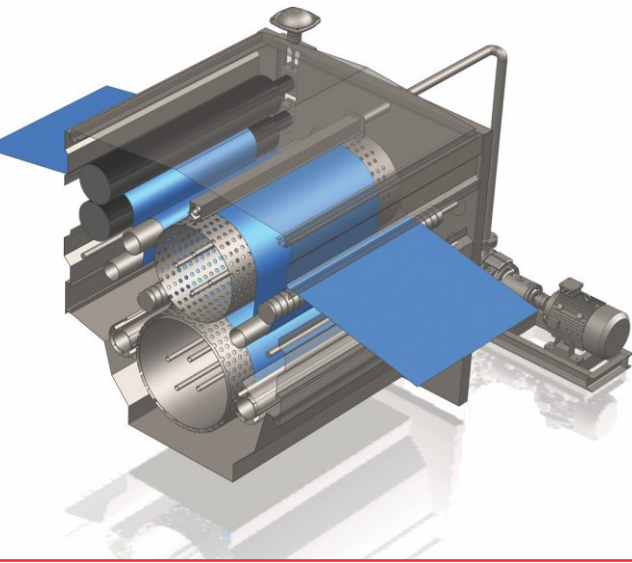
Jet Blade Spray
Positioned on the front and back side of the drum is a recirculated element to provide washing effect on low tension.

Perforated Drums
Perforated Drums are driven by an inverter controlled gearbox motor that is useful for fabric transportation affecting removal of impurities.

Self Cleaning Rotary Filter
Composed of Micro-sheet mesh is a rotary filter that eliminates impurities left in the bath by the fabric.

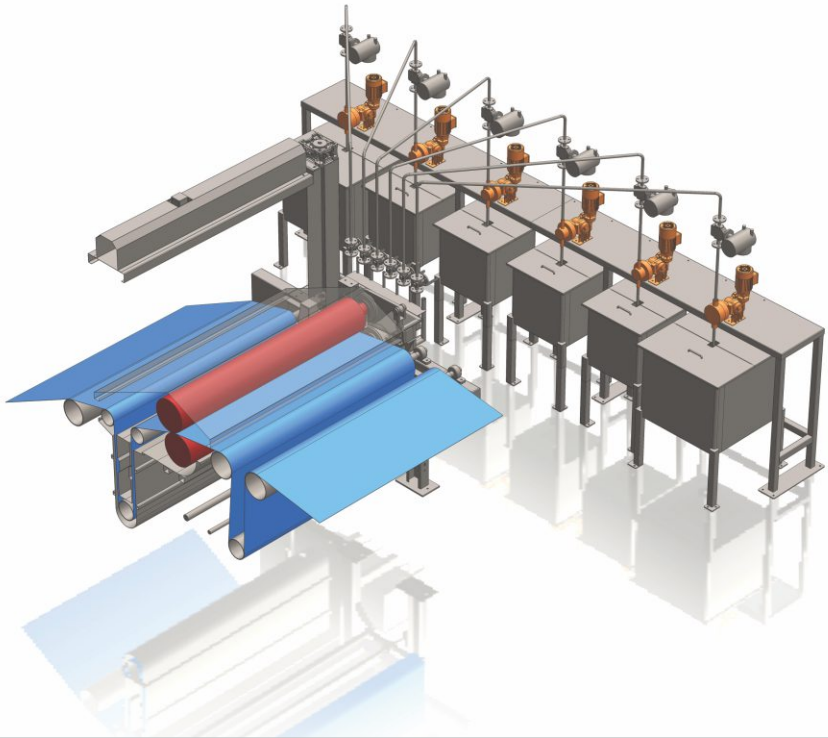
Squeezing Mangle
The upper roller applies adequate pressure via pneumatic pistons while the lower roller is driven by controlled motor ensuring optimum squeezing throughout the width of the fabric.

Compensator
By the medium of pneumatic control; compensator adjusts the down weight of the cylinder on the fabric.



- Applications :**
- Pre-Treatment and Post treatment wash.
 - Scouring and Desizing.
 - Relaxation washing.
 - Intermediate washing.
- Advantages:**
- Sequential Dosing.
 - Temperature control, water renewal and recirculation.
 - Self-Cleaning rotary filter.
 - Tensionless guidance for sensitive fabrics.
 - Compensator Synchronisation.

- Impregnation and Applicator.**
- Controlled Liquor Application.
 - Sequential Dosing and Flow control.
 - Chemical metering system.
 - Low liquor content.
 - High penetration.



STEAMER

Steam Tight Chamber.

Saturated Steam Heating for Optimum Backing.

Dwelling Time Variation from 5 Minutes to 20 Minutes.

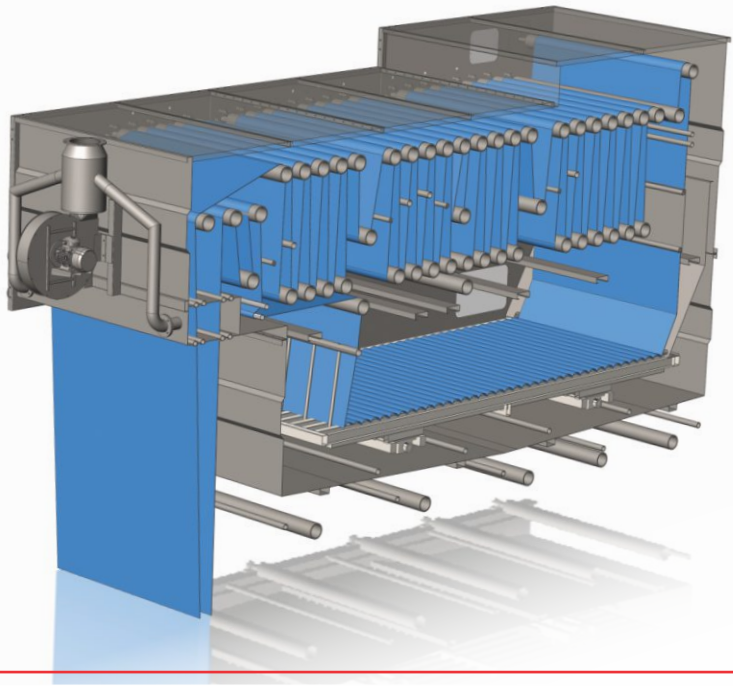
Tubular Conveyer for Fabric Advancement.

No Dry-up Marks.

No Fold Marks.

No Edge Curling.

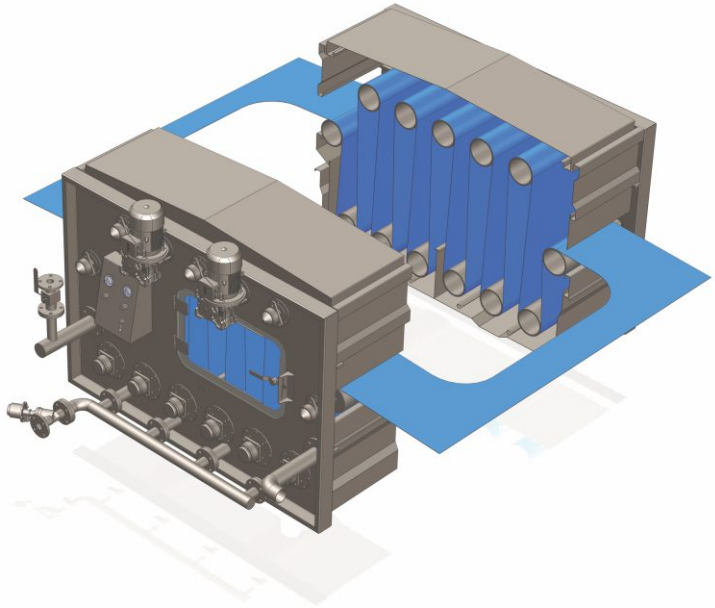
Least Possible Breakdown.



Single Loop Washing Compartment.

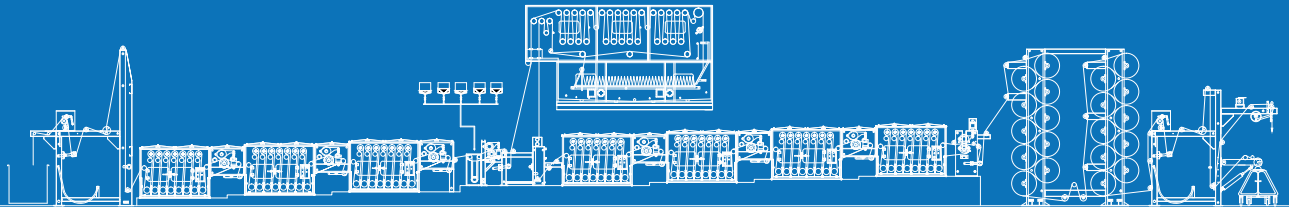
Single loop washing compartment consists of a trough made from stainless steel consuming low liquor contents.

The fabric loops vertically and comes in contact with in contact with liquor which expedites the removal of dissolved chemicals and impurities. Top and bottom rollers are fixed in bearings along with the mechanical seal/ bush bearings. Compartments can be equipped with direct or Indirect heating arrangements. The top rollers are provided with torque motor / reduction gearbox motor either on individual or alternate rollers depending upon tension sensitivity of the fabric. The Expedition time in a single loop compartment is however lower than that of Double loop washing compartment. However, Cloth accessibility and handling is easier in single loop compartment.

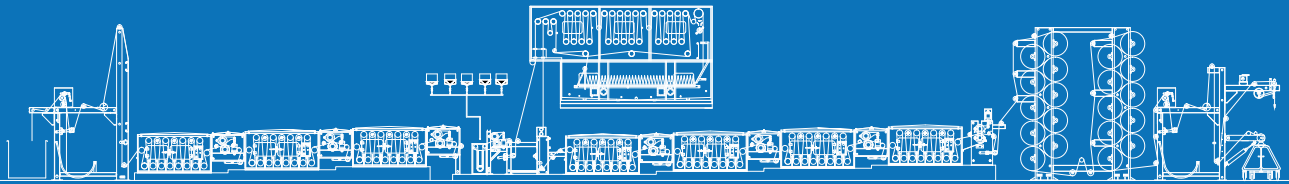


- Applications:**
- Preparation of woven fabrics.
 - Scouring and Desizing washing.
 - Rinsing, Chemical treatment.
 - Neutralisation.
- Advantages:**
- High-Washing intensity.
 - Direct/Indirect heating.
 - Forced Circulation of bath liquor.
 - Minimum fabric Tension.
 - Adjustable Liquor level.
 - High Liquor Turbulence

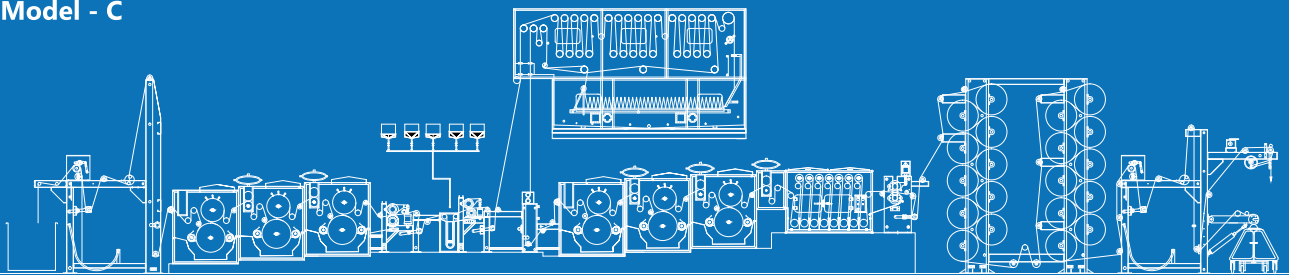
Model - A



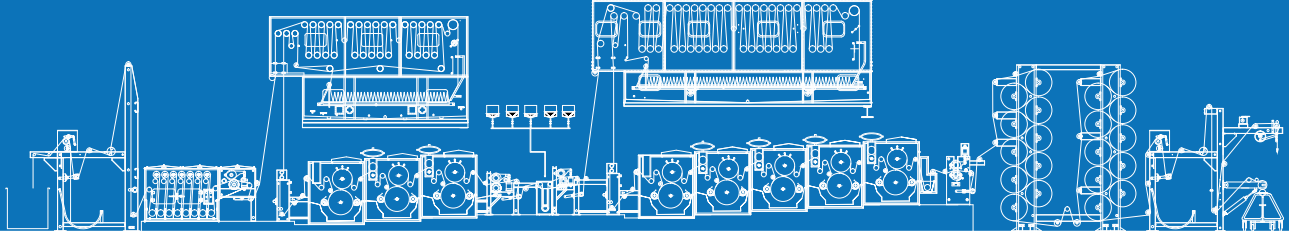
Model - B



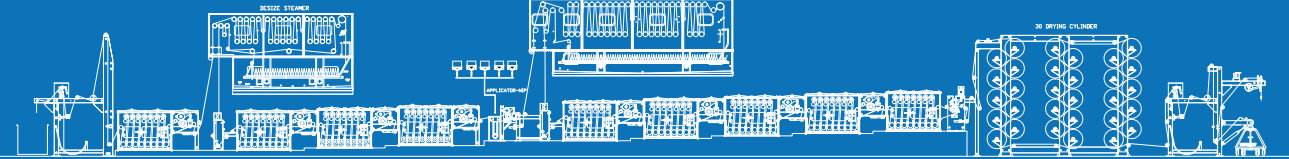
Model - C



Model - D



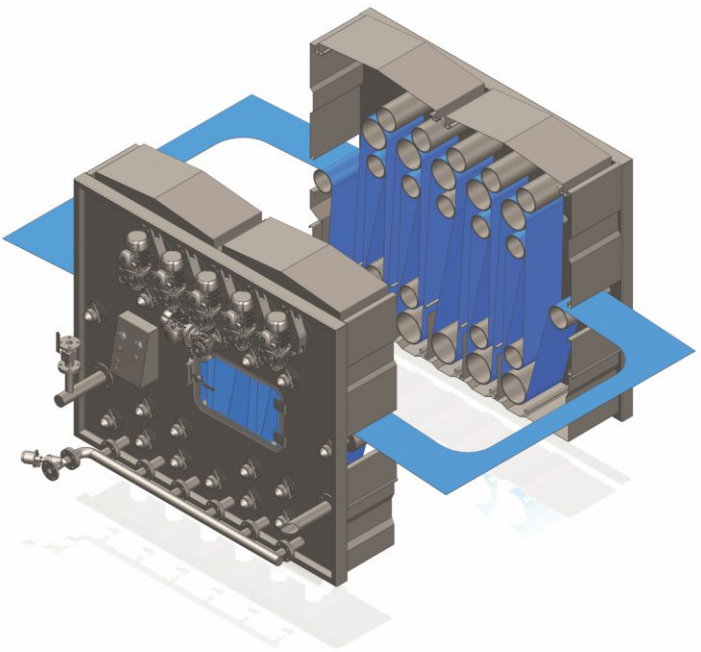
Model - E



Double-Loop Washing Compartment.

A double loop threading of fabric provides two adjacent textiles to move in the opposite direction which creates turbulence in the compartment and tension along the width of the fabric. This ensures very high washing efficiency. The washing compartments come with top and bottom rollers mounted on a bearing and mechanical seal. Torque motors / Reduction gear motors are provided alternately or individually depending upon the tendency of the fabric.

The trough can be provided with the partitions to produce a counter flow wherein cleaner or washed fabric comes in contact with fresh water as the fabric advances.



- Applications:**
- Preparation of woven Fabric
 - Rinsing and chemical application.
 - Desizing
 - Scouring and Bleaching
- Advantages:**
- Maximum Cloth content.
 - Counter-Flow on the fabric.
 - Tension regulation.

Stripping Roller Washing Compartment.

Stripping roller washing compartment comprises of an additional rows of rollers which provides better fabric guidance retaining tension on the fabric. The fabric loops vertically and expedites removal of impurities and dissolved chemicals. Compartments can be equipped with direct or Indirect heating arrangements. The top rollers are provided with torque motor / reduction gear motors either on individual or alternate rollers depending upon tension sensitivity of the fabric. "Stripping roller compartment improves fabric advancement for the most type of woven fabrics."

- Applications:**
- Preparation of woven Fabric
 - Tension sensitive Fabric expedition
 - Rinsing and chemical application.
 - Desizing
 - Scouring and Bleaching

- Advantages:**
- Washing of natural and synthetic Fabrics.
 - Rapidity of washing along with optimum efficiency.
 - Swift guidance of fabric with lowest tension.

