Robust RND

Robust Research and Development

Technology is our Passions.

WHO ARE WE

Robust Research and development. has specifically designed innovative solutions and technologies, specific for each material, which revolutionize and optimize the job of the customers, improving process efficiency, reducing time and costs, giving a new face to the idea of quality control.

We are some energetic and profetional people are serving our best Engineering support to our local market by providing different kind of products and after sales service. Now we are doing well with our signeficant numbers of customer who are the part of our core business. We belive in cooperation in every sector and our motive to serve our partners as they required. Our service team is working as round the clock with passion and profetionals.

1. *Machine manufacturer*
2. *Automation & Online software*
3. *Caustic recovery plant.*
4. *Accessories and spares*
5. *Trading of Textile machinery*
6. *Industrial consultancy.*

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Robust R&D

Mechanism

1.Bearing
2.Gear
3.Time Durability
4.Vibration & Friction
5.Clamp
6.Roller
7.Timing Belt.

Fuel & Lubricant

1.Impurity
2.Filtering
3.Air filter
4.Oil filter

- All parts are manufactured using stainless steels.
- An energy efficient, frequency controlled liquor pump with high efficiency is used for the liquor circulation.
- Our machine will run 35%~40% less power with respect to conventional machine.
- The liquor ratio starts from 1:3,5 to 1:6.
- Complete treatment baths can be prepared in the 100% stock tank which will heat up liquor tank by heat exchanger.
- Analogue dosing (even under HT conditions) takes over the addition of dyes, chemicals or textile auxiliaries from the addition tank in accordance with the programmed time and mode (curve).
- The maximum operating temperature is 140 °C, and the maximum operating pressure is 5 bar.
- Basic machine executions include an electronic fill level control system in addition to an electronic water meter. This allows the machine's water consumption to be evaluated at any time.
- Control of the *Robotics Research and development* . yarn dyeing machine is carried out using a modern touch screen controller.
- Most of the equipments from Japan and European slandered.
- The liquor flow rate is reliably regulated using the Mecon function

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We are instrumental in providing our valuable customers, excellent quality 8 Point And 10 Point Database, Woven Fabric *Inspection Machine* (*Denim & Knit* Fabric Also)

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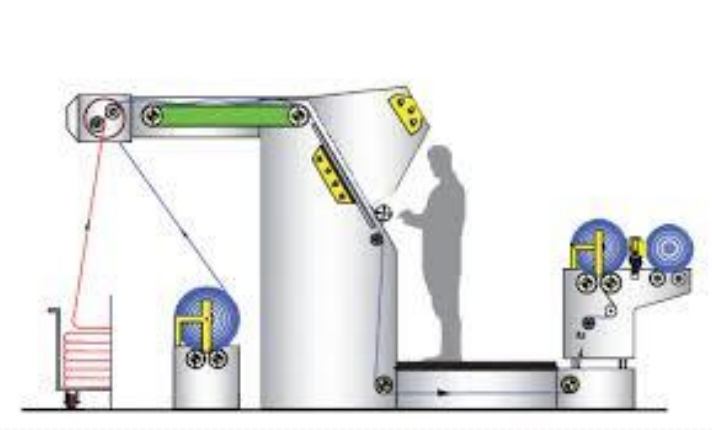
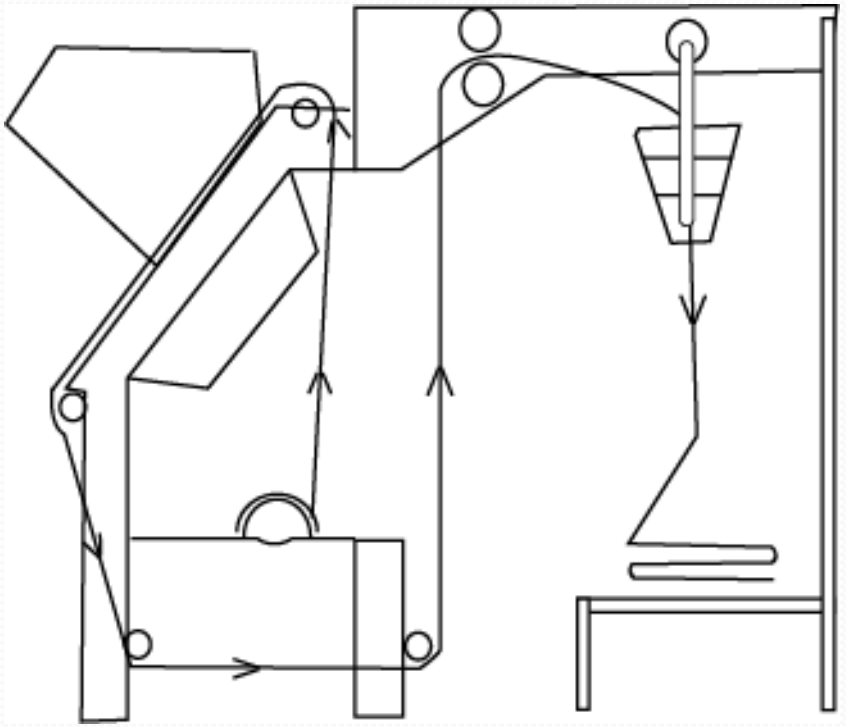
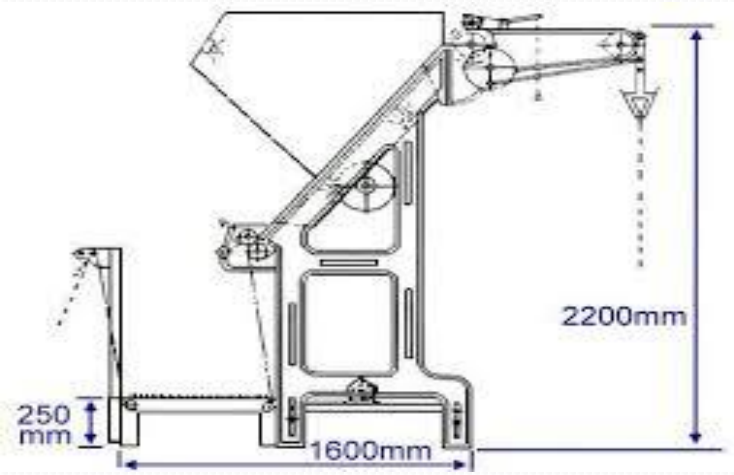
Fabrics Inspection Machine Schematic Design







The All Machine system 10"/24" Touch screen Monitor features a Full HD 1920 x 1080 resolution accompanied by a 1000:1 contrast ratio, a 250cd /m² brightness rating, and a 6 ms response time to ensure you receive a crisp, clear picture with reduced ghosting. Setting up this monitor is simple thanks to the HDMI, VGA, and Display Port inputs; and with a built-in USB hub users can even plug compatible USB peripherals directly in to the monitor. Once configured, the monitor can be tilted, swivelled, and the height can be adjusted to take maximum advantage of the 178° horizontal and vertical viewing angles offered by this IPS display.

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Fabric inspection machine _ Main technical parameters

Woven Fabric		Denims	Knitting	
maximum width of roll	220 cm	190cm	186cm	
maximum diameter of roll	450mm	460mm	460mm	
maximum weight of roll	185 kg	210 kg	190 kg	
maximum rewinding speed	70 m /min. (adjustable)	90 m /min. (adjustable)	50 m /min. (adjustable)	
weight of the machine	700kg	800kg	650kg	
machine dimensions	H. 220cm,L. 270cm, W. 160cm	H. 220cm,L. 280cm, W. 170cm	H. 220cm,L. 280cm, W. 170cm	
power requirements / power consumption	3x380V+N/50Hz/4kW	3x380V+N/50Hz/3.5kW	3x380V+N/50Hz/3.5kW	

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Tubular fabric inspection for knitting

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Features

1.Applicable for tubular fabric inspection for knitting factory, it can inspect double sides simultaneously with high efficiency;

2.Light power controlled by wireless and high frequency, it is convenient to operate control panel by footboard;

3.With fabric swaying device, roll or discharge fabric according to specific requirements;

4.Fabric lantern box has several specifications, applicable for different fabrics from 18”~48”;

5.Inspect with reflector, clear and accurate.

Parameter

Dimension : 2300X1700X2070MM

Speed : 0～50M/MIN

Power supply : 220V

Motor : Transmission motor 0.4KW, Selvedge trimmer motor0.4KW,Fabric-taking motor 0.04KW

Useful width : 1450MM

Pressure of cylinder : ≤6MPa

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Automatic Fabric Roll Packing Machine

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Wrapping Semi Auto Fabric Roll Packing Machine

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Robotics Automatic Fabric Roll Packing Machine

Fabric rolls wrapping with nylon film, side sealing with thermal welding method 75-100 rolls/hour packing capacity Packaged roll is passed through shrink unit for close-fitting wrapping Multi-loading from roll machine to conveyors and automatic pinpoint multi-dispatching to carriages Automatic nylon film changing system according to different widths of roll Specific solutions for packing of big diameter rolls

Robust HMI	: 10 Inch
Controlling System	: Microcontroller Based Fully Automatic.
Body Material	: Mild Steel.
Speed	: 5-140 m/min
Fabric width	: 1800 mm
Nominal width	: 2000 mm
Capacity	: 50 Roll / h
Roll Alignment Sensor	: IR
Electric Specs	: 3 phase- 380V; 50HZ; 2.2KW
Remark	: Variable working width is possible and can be tailor-made to your requirements of processing needs.

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Fabric Rolling Machine

FR220cm

FRBK190cm

FRBG190cm

FRBB190cm

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FHR186cm

FLR186cm

FWR186cm

FIR186cm

Specifications :
- Fabric roll width : 1200 mm - 3200 mm
- Minimum length of the measured material : approx. 1.8 m
- Maximum roll weight : 30 kg
- Maximum roll diameter : 300 mm
- Maximum rewinding speed : 20 m / min
- Overall dimensions (LxWxH) : 3970 mm x 1700 mm x 1575 mm
- Working height : 928 mm ± 30 mm
- Power : 1.1 kW
- Voltage : 230V AC

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HMI *Robust*
10/24" Inch 1920-1080 Resolution
Any_ D_ON 5 years Replace

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- Designed to accommodate a variety of materials, yarns and package sizes and to produce 2-ply as well as 3-ply packages, the CW3-D is a highly versatile and economical machine. Designed to be extremely rugged, the CW3-D Assembly Winder is subject to minimal wear and therefore requires little maintenance.

  The CW3-D Assembly Winder packs proven solutions in terms of drive, yarn tension control and package build-up for optimum assembling results. Easy to operate and designed to deliver consistent production quality, the CW3-D Assembly Winder lets users develop their own know-how to meet their mill's specific requirements and to outpace the competition.

  The CW3-D's simple and ergonomic concept produces packages with a variety of yarns and sizes. Combined with ease of operation, the unit's ultimate freedom optimizes assembling processes. Tailored packages in turn are known to provide for optimized twisting processes.

- SSM XENO - the new modular winding machine platform, available with all three leading SSM winding technologies.

  The SSM XENO-FD is a precision assembly winder for all kind of staple and textured filament yarns. Equipped with the latest technology and the possibility for adding an elastane component to the assembly process.

  The key features are:

  Electronically adjustable precision winding for highest possible densities and best unwinding properties
  15" touch-screen machine terminal for ease of use
  Optional automatic doffer system for maximum productivity
  Optional integrated 3-ply creel with individual yarn detection sensor for each ply

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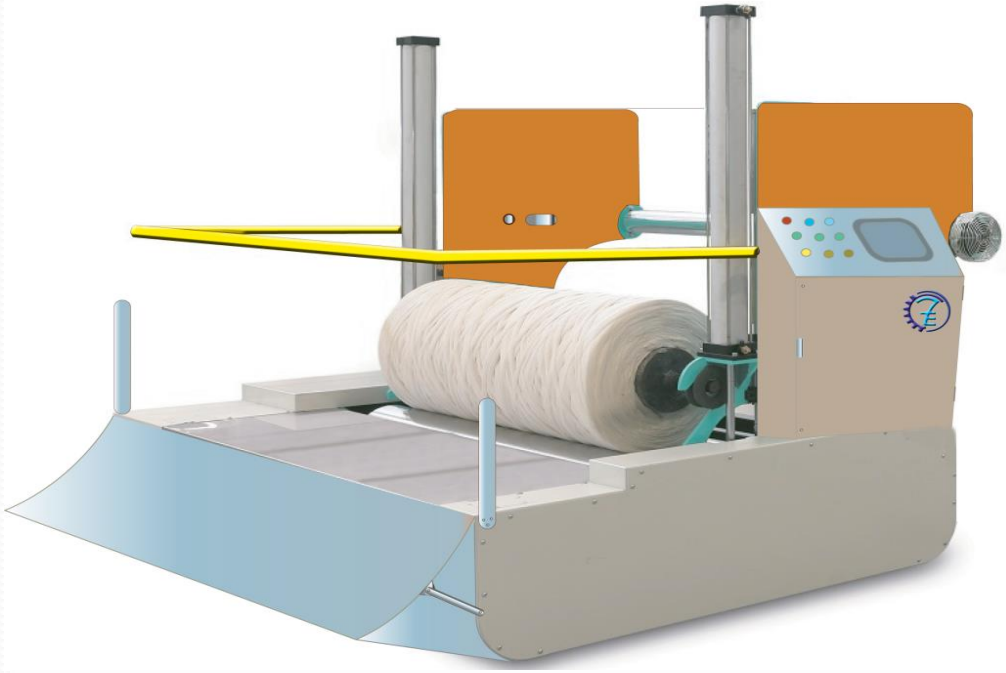
The BALL WARPER forms the ropes for producing beams having a maximum diameter of 1,600 mm and operates in a controlled, tension-regulated, gentle and precise way. The technical features that are responsible for improving performance include, for example, pneumatically controlled disc brake technology for synchronous braking, and an integrated suction system for removing fly and other contaminants. Removing these impurities is said to reduce contamination during wet treatment.



The(LCB) LONG CHAIN BEAMER produces beams having a maximum diameter of 1,000 mm. A pneumatically operated, self-centering, toothed, sharply tapered beam mounting and an infinitely adjustable presser roller device, including an automatic kick-back facility, aim to guarantee reliable processing and easy handling. The latter ensures perfectly cylindrical beam winding.

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Customized Designed Batcher Machine

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Based on our experience and developments in industry and controller technology, we have developed the Robust -Jigger.

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Technical Details:

•Fabric tension:	50-800 N
•Fabric speed:	10-150 m/min
•Fabric width:	max. 5400 mm
•Roller width:	max. 5600 mm

- **Significant innovations in the process technology**
- Direct drive of the main rollers via frequency controlled three-phase motors with brake drive current return (energy saving)
- A dye trough design ensuring minimum possible liquor ratio
- Fabric rope monitoring control system for precise calculation and control of the fabric speed and tension
- Uniform dyeing conditions in the dye trough, independent of the batch size
- Water meter for controlled rinsing
- Dosing of dyes and chemicals dependent on the fabric length passing through the dye bath
- Addition pressure pump for shading corrections and dosing
  On the HT-Jigger dosing under pressure possible
- External pump and heat exchanger ensure uniform liquor heating and circulation
- Sidewise displacement of the main batch roller
- Analog level for dyeing kier
- Floor level track system (for HT-Jigger)
- Easy maintenance

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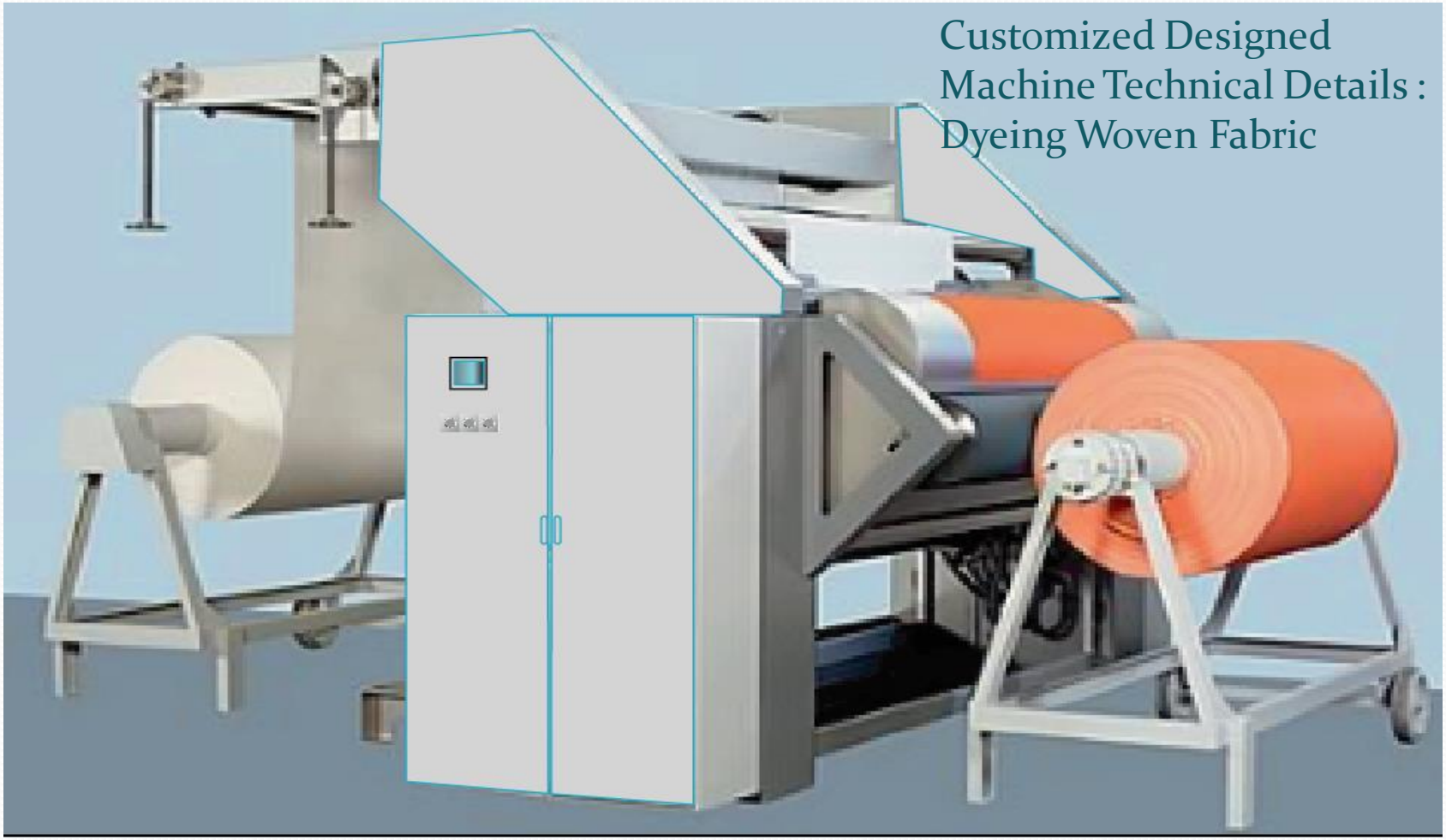
CPB dyeing process the reactive dye is fixed at room temperature. With Plc controlled dyeing conditions plus the latest developments in the dye itself, this modern CPB dyeing system can be used on cellulose fibers for woven fabrics as well as knitwear anywhere in the world without any restrictions.



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Multi Nozzle Soft Flow Dyeing Machines

Ultra low liquor ratio - 1:2 (wet fabrics)
Number of very soft-flow nozzles
No pilling effect
Dye 30 to 500 g./mt.sq. fabrics (Woven & knitted fabrics)
Work as a Jet Dyeing machine for polyester, cotton blend fabrics
Counter flow as well as reverse flow
Reduce pollution plant size
High temperature up to 140 6;C.
Capacity – 10 Kg. To 300 kg
Work as a Soft Flow machine for Woven & Knitted Cotton Fabrics.

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Customized Designed MachineTechnical Details :Yarn Dyeing

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Thank you All