EXCELLENT
PRODUCTS
ADVANCE
TECHNOLOGY



Rabatex
SINCE 1962

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Overseas Office
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South Africa | Ukraine | Uzbekistan | Bangladesh

Rabatex
SINCE 1962



Companions of

38+countries for textile manufacturing

Over the decades, our machines and solutions have reached markets around the world, shaped by experience, precision and an understanding of the industries we serve.

Journey



Since its inception in 1962, Rabatex Group has grown into a prominent player in the engineering and textile machinery manufacturing industry. We began by manufacturing high precision components for air compressors, agricultural tractor vehicles, and customized machinery for MNCs. We later expanded into the manufacturing of basic sectional warping machines, material handling and storage equipment for weaving preparatory processes, and other textile machinery.

Today, Rabatex Group offers a comprehensive range of advanced, computerised sectional warping machines, single end sample warping machines, single-end sizing machines, speciality warping creels with electronic controls, precision tensioners, and material handling and storage equipment, as well as electrically operated equipment. Over the years, Rabatex has established a strong presence in global markets.

From micro units to large scale modern facilities, we provide a wide variety of customised made machinery to meet the needs of diverse companies and streamline their textile manufacturing processes.

Rabatex has also received the Best R&D Award in 2006 and the Best Export Performance Award in 2010, best engineering in weaving segment in 2022 along with numerous individual appreciation from clients.

As part of our continued expansion, Rabatex has ventured into the manufacturing of automatic storage systems (VLM, carousels, storage solutions and customised storage solutions)

With constantly evolving technology and state of the art design, our machinery is user friendly, easy to operate and helps thousands of clients save time and improve manufacturing efficiency. Our dedicated after sales service, consistent customer support, and competitive pricing have also helped us maintain a 43% repeat business ratio, driving our continued growth.



From Here, To The World

Different Market, Same Standards



Vision

To become the most preferred global solution provider by delivering innovative products that add value to our customer and contribute to a better environment.

Mission

To continuously improve our products and services to achieve the highest levels of customer satisfaction. By adopting advanced technology, we strive to deliver cost effective, efficient and reliable solutions to customers worldwide.

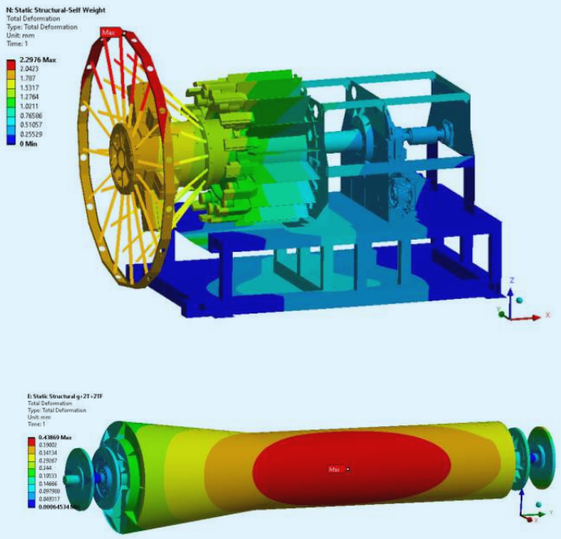
Values

At Rabatex, our values are rooted in integrity, operational excellence, innovation and continuous improvement. We believe in building lasting relationships through trust and transparency, maintaining high standards of quality and precision and embracing new technologies to develop effective technology solutions. Through a commitment to continuous learning and improvement, we strive to deliver consistent value to our customers and build lasting partnerships across industries.

R&D

Since its inception in 1962, Rabatex Group has grown into a prominent player in the engineering and textile machinery manufacturing industry. We began by manufacturing high precision components for air compressors, agricultural tractor vehicles and customized machinery for MNCs. We later expanded into the manufacturing of basic sectional warping machines, material handling and storage equipment for weaving preparatory processes and other textile machinery.

Today, Rabatex Group offers a comprehensive range of advanced, computerised sectional warping machines, single end sample warping machines, single end sizing machines, speciality warping creels with electronic controls, precision tensioners and material handling and storage equipment, among others. From micro units to large scale modern facilities, we provide a wide variety of customised made machinery to meet the needs of diverse companies and streamline their textile manufacturing processes.



Quality Policy

Rabatex is committed to maintaining high standards of quality across its products and processes. Through continuous improvement, stringent quality checks and adherence to established manufacturing standards, we strive to deliver reliable machinery that meets customer expectations. We aim to strengthen customer trust through consistent performance, process efficiency and a commitment to excellence.











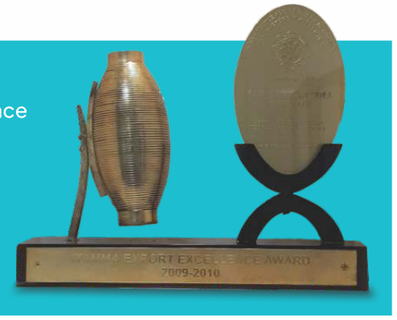
Quality Built Into Every Stage of our Process

ISO 9001:2015 certified by DNV

CE conformance of European standards

Other appreciation from customers / Association Govt. of India

Export Performance Award





Technology Associates

MITSUBISHI ELECTRIC — Changes for the Better
Allen-Bradley
SIEMENS
Schneider Electric
SKF
NTN
FESTO
SMC
atos on line
Rexroth Bosch Group
HIWIN Motion Control and System Technology BRASIL
LAPP GROUP
igus
BONFIGLIOLI Power & Control Solutions

Your Accomplishments Define Our Milestones

Shirting

shahi · Arvind · Nandan · ashima Group · Nitin · BRFL · Shahlon · RSL Dyecot Ltd. · mudra lifestyle ltd · Jaydee Fabrics Ltd. · Firstwinner · Kamadgiri Fashion Ltd · since 1976 Diamond · Fairdeal Filaments Ltd. · Ashvira · Precot Meridian · Minaxi Textiles Ltd · Vardhman · ge · Bombay Rayon · VSM Weavess India (P) Ltd · Lucky Group · Dinesh Exports · Kamadgiri Fashion Limited · Mandhana · ahujasons · Ranga Weaves India (P) Ltd · JAYCO

Home Furnishing

Decor · Arvind-A-Traders · Shingora Textiles Ltd · Jawandsons · Atlas · Master Linens Inc. · Asian Fashion · Sabare · Emperor Trading Company · Paliwal Industries Ltd · Agritex International · Naraj · R.K. Exports · birmi · mittal · P.A.P. Exports

Suiting

Raymond · B&L Suitings · OCM Suitings · Donear M/s. Doner Ind Ltd · Banswara Syntex Ltd · Jaygan · Kanchan · S.Kumars · Saam Textiles Pvt.Ltd · Viral Fabrics · SRS Syntex Limited · Sona Textiles · Texaco Synthetic Pvt. Ltd · Sahlone · Keshari · Suzuki Suitings Shirting

Terry Towel

Welspun Terry Towels · Standard Textile est. 1940 · MNS Manufacturing P.L.C. · Taseuli · NG Group of Industries · Sara Textiles Limited · Kataria · JVS Export · Modern Terry Towels · Sharadha Terry Products Limited · Terrytex Ltd · amaravathi textiles

Silk

JJML Jaipuria Silk Mills Pvt Ltd · Kabadi Shankarsa & Sons · Siera Silk Mills Pvt Ltd · Mulberry sanctuaries in silk · J.J.Exporters Ltd · Hanuman Weaving Factory · Ethnic Silk Mills · Batsons Textiles · Shahlon · KSR Handlooms Private Limited · Janardhana Silk House Weaver to Wearer Since 1952 · Fashions · Bombay Fabrics · Pathi Prints

Technical Textile

SRF · TechFab India · Vardhman · Fenner Conveyor Belting · Rajashree Polyfil · USUMGAR · Garware Technical Fibres · habasit · MIT Madura Industrial Textiles · Arvind PD Group · Apex Advanced Textiles Pvt Ltd. · Priyafil · Meril · Laxmipati Group · Shri Ambica Polymer Private Limited · Fairdeal Jumbo Packaging Pvt.Ltd. · Hi-Tech Speciality Fabrics (Exports) Pvt. Ltd. · Plastene India Limited · DFR Technical Textile · KE TEX · HILTEX fabrics for tomorrow · Navkar Fabric Creations · CTM · Bright Global-Tex Industries Pvt. Ltd.

Denim

Arvind · Modern Denim Ltd. · Chiripal · Mafatlal Industries Limited · Jindal · Kanchan · ginni International Limited · SAR · JRD Denims Ltd. · kg denim · Vinod · RB Denims · Partap Group · Venus · ETCO · aarvee Denims & Exports Ltd. · Signet Denim Pvt. Ltd.

Jute

Birla Corporation Limited · Hooghly · RI · Ludlow · Gloster Ltd · Kankarrah Company Limited · Ganges Jute · Premchand Jute & Industries Private Limited · East India Commercial Co.Ltd · The Naihati Jute Mills Co. Ltd. · Pacific Jute Limited · Bally Jute Company Ltd. · Gayatri Group · Bowreah Jute · JP · Reliance Jute Mills (International) Ltd.

Through an expanding network of distributors and offices, we provide our customers with dedicated support, focusing on understanding their requirements and ensuring precision and timely deliveries. Backed by a strong workforce of over 300 people across the country, we are committed to maintaining efficient distribution, prompt service and reliable support for our valued clientele.

3700+
Sectional Warper Installations Worldwide

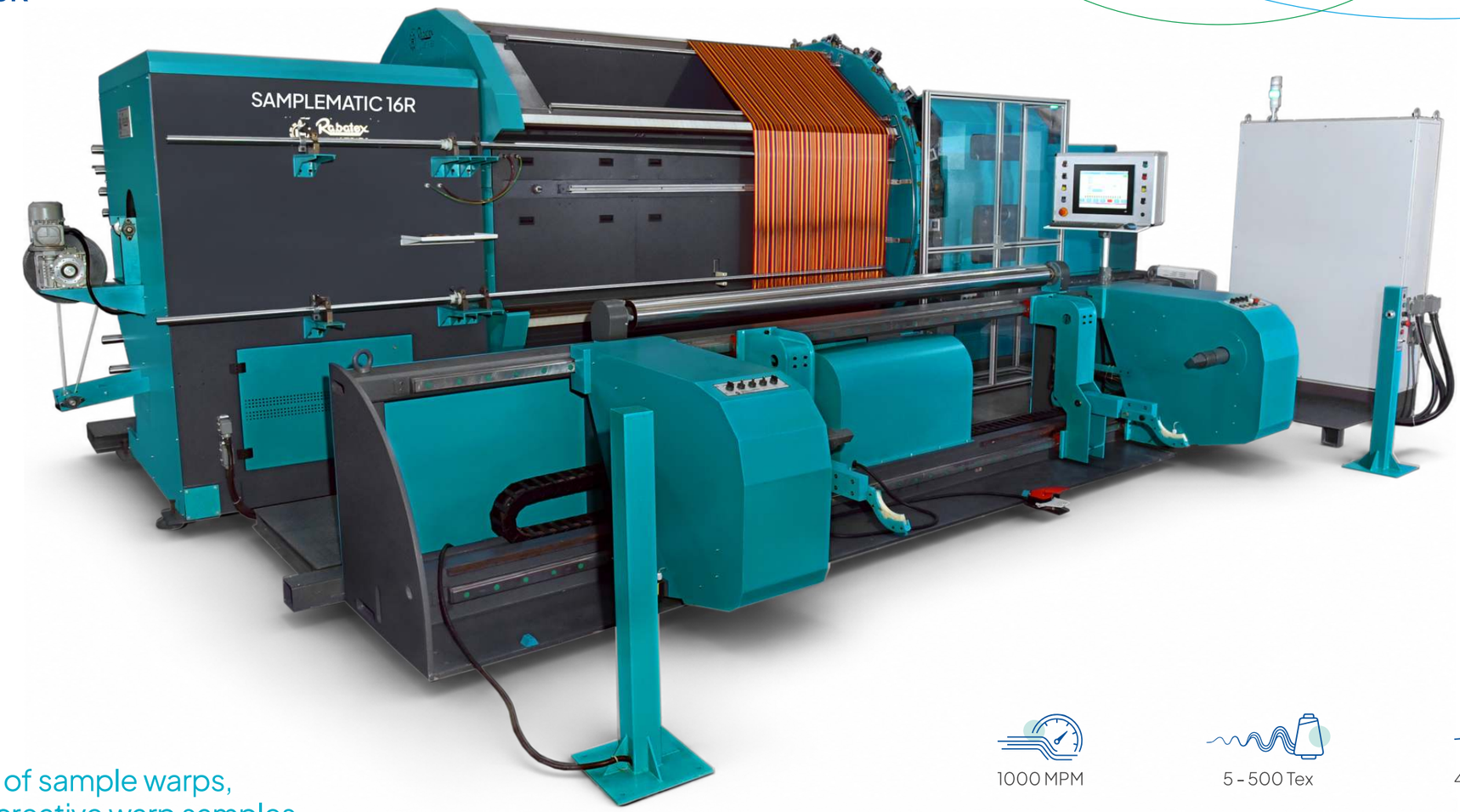
6200+
Material Handling and Storage Equipment Installations Worldwide

200+
Fabric Sampling Installations Worldwide

215+
Technical Textile Customised Machinery Installations Worldwide

High Speed Automatic Sample Warper

Samplematic 16R



For preparation of sample warps, short warp and creative warp samples

We are now proud to introduce our Advanced Sample Warping Machine, ready to meet the requirements of the fashion industry and masterfully cater to the apparel fabric suppliers for their sample warp and large warp needs.

The advance automation (With advanced software) ensures flexibility of warp sampling production with minimum number of yarn packages and in the shortest time frame possible.

The rotational creel (up to 16 Warp Packages) ensures perfect warp preparation irrespective of complexity of pattern and that too with a precise thread build up which in turn allows maximum possible warp length within the shortest time frame. In addition, there is an advanced HMI Control for effective data entry and optimising time and quality of the warp sample preparation even with remote diagnosis facility.







1000 MPM

5 - 500 Tex

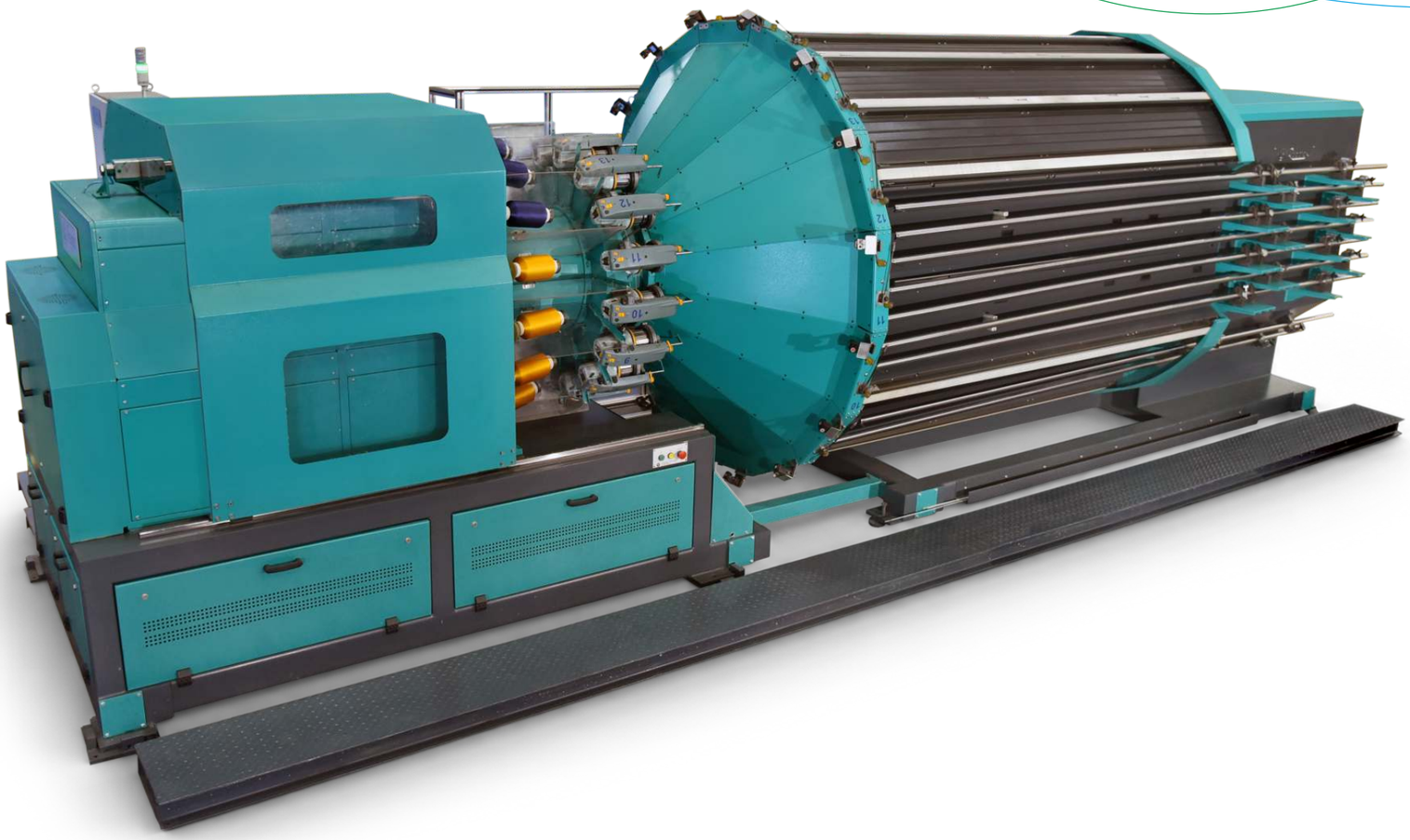
400 - 5000 N

Technical Features

Drum circumference	7000 mm
Warp width	1900 - 2400 mm (Higher Width on Request)
Warping length	21 - 450 Mtr (Depending on Warp Density)
Yarn range	5 - 500 Tex
Warping speed	1000 MPM
Leasing speed	1000 MPM
Beaming speed	80 MPM
No. of colour feeder	16
Maximum beam flange dia	650 - 1100 mm
Beaming tension	400 - 5000 N
Auto leasing	Yes
Beam pressing	Yes (Optional)
Oiling / Waxing	Yes (Optional)
Leasing option	a. Standard (4 lease) b. 7 lease (beam to beam sizing)(optional)

High Speed Automatic Sample Warper

Samplematic 16R



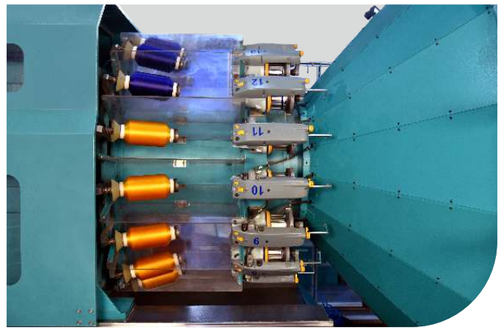
Features Highlights

- Rotary Creel with a facility to accommodate 16 packages. Easy to load any type of yarn packages.
- State of art yarn accumulators to ensure the laying of the yarn with constant tension at a max. speed up to 1000 MPM.
- 15 "Touch screen colour display HMI for data entry & display of all process parameters.
- Advanced & user friendly software, easy to handle by operator for data entry and to view process information.
- Advance software automatically displays the colour wise warp package requirements, the position of each color on the cone creel the number of pending warp threads the pending warp width, the maximum possible length and the time required to complete the warp.
- The software determines the package positions to complete the pattern in the shortest possible time, ensuring maximum output.
- It also provides advanced diagnostics of all electronics and machine fault to assist the maintenance engineer.
- Memory for program store facility to avoid the re-entry of the data.
- Separate pre-preparation software available for the preparation of the next programs, helps to reduce the machine down time & boost the productivity.
- Yarn brake detection sensors detects the yarn brake before & after the yarn accumulators colour packages, avoid the chances of pattern mistake.
- Precisely made 16 yarn needles on the rotary, controlled by the response control, lay the yarn accurately according to the inserted warp pattern at a very high speed of up to 1000 MPM
- Robust constructed separate beamer, accommodates max. 1100 mm beam flange, with hydraulic donning/doffing, with the help of pneumatic braking system. Servo control beaming drive ensure constant line speed of the warp, maintaining constant yarn tension.
- All safety measures provided at all operational rotating part, includes pneumatic control auto rotary creel guard, warping running guard, beaming safety guards and all interlocked emergency push button at different position of the machine.
- Pneumatic beam pressing device (optional) for extra hardness of the beam for certain warp and waxing/oiling device (optional) with heating system, auto oil circulating system available .
- Automatically and smooth selection of the required yarn for laying on drum at very high speed without any error.
- Synchronised yarn laying by belts and drives, ensure precise laying and shifting of the warp yarn on drum, to ensure a quality warp beam.
- Automatic sequential leasing function inserting cross leases and cut lease accurately without any lease fault.

High Speed Automatic Sample Warper
Samplematic 16R

Cone Creel

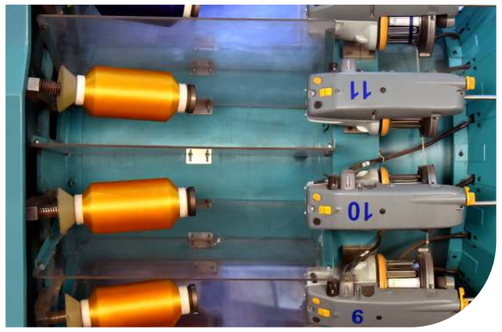
- Rotary cone creel available with 16 colours
- Smooth unwinding avoids yarn breakage
- Easily loading/ unloading of yarn packages minimize the change over time
- Suitable for all types of yarn packages



Leasing Unit

- Precisely controls leasing units to get the fault free leases
- Automatic sequential leasing function





Yarn Accumulators

- State of art technology controlled by the response control
- Ensure even tension throughout the warp irrespective of any package diameter
- Yarn break detector to avoid the chances of wrong pattern



Drum

- Warping drum with 7000 mm circumference suitable for the width upto 2400 mm
- Robust constructed drum capable for max. possible length up to 450 Mtr Length (Depending on warp density)
- Synchronised timing belt drive

Warping Needles

- 16 thread needles controlled by the response control
- Laying of the threads on the drum so precisely, will result in the quality warp beam
- Laying max. 16 warp ends / revolution, depending on the pattern at a very high speed
- Front broken end detection sensor detect broken warp, avoid the chances of wrong pattern



HMI

- 15" touch screen colour display screen for data inputs and display operational data
- Advance software for data entry, optimisation of complex warp pattern, monitoring of all process data, advance diagnosis of electronics components

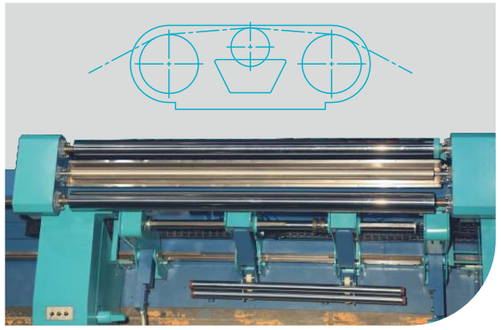


High Speed Automatic Sample Warper
Samplematic 16R

Optional Accessories

Waxing Device

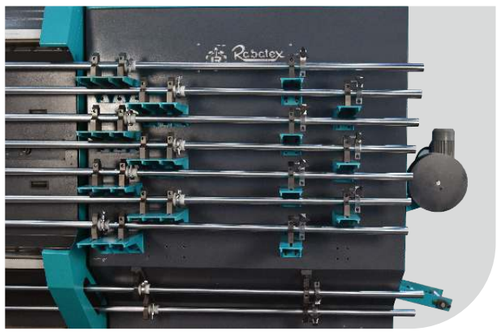
- 3 roll waxing device with SS wax tray and circulated storage tank with pump and motor
- Synchronized waxing speed
- The center SS roll is driven by a gearbox and an AC motor with variable speed
- Storage tank with pump
- AC drive for SS guide roll drive





Beam Pressing Device

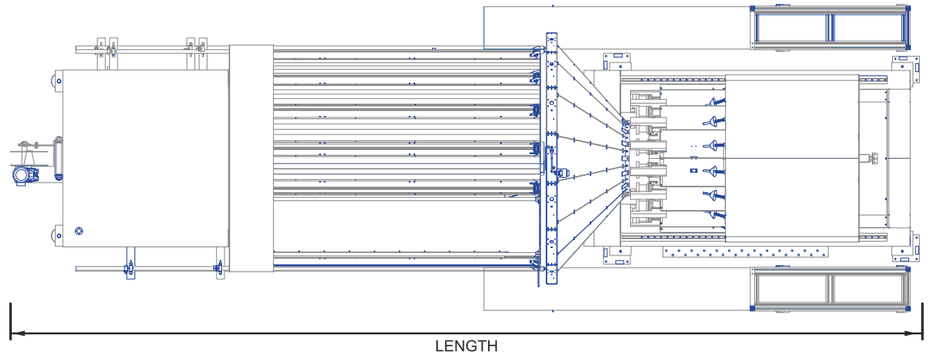
- Pneumatic beam pressing device for extra hardness of the beam for certain warps

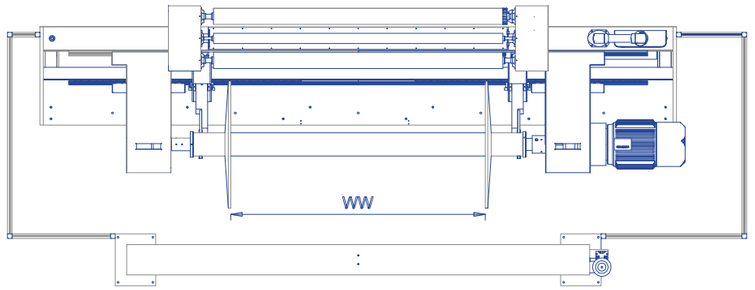


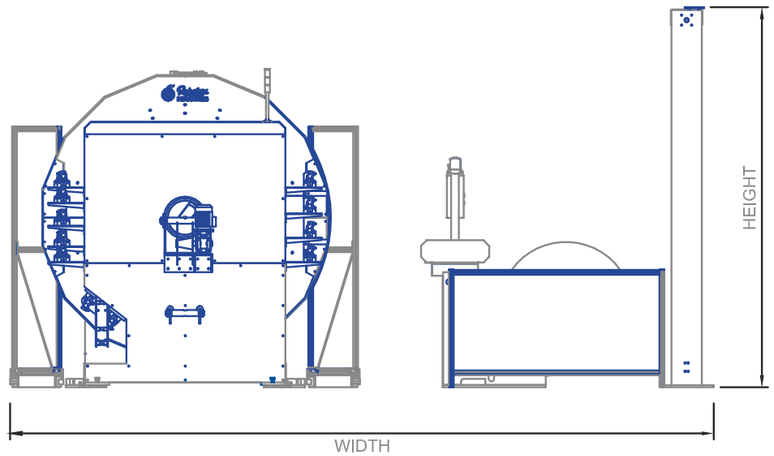
7 Lease (Beam to Beam Sizing)

- 7 lease option for beam to beam sizing

Layout Drawing



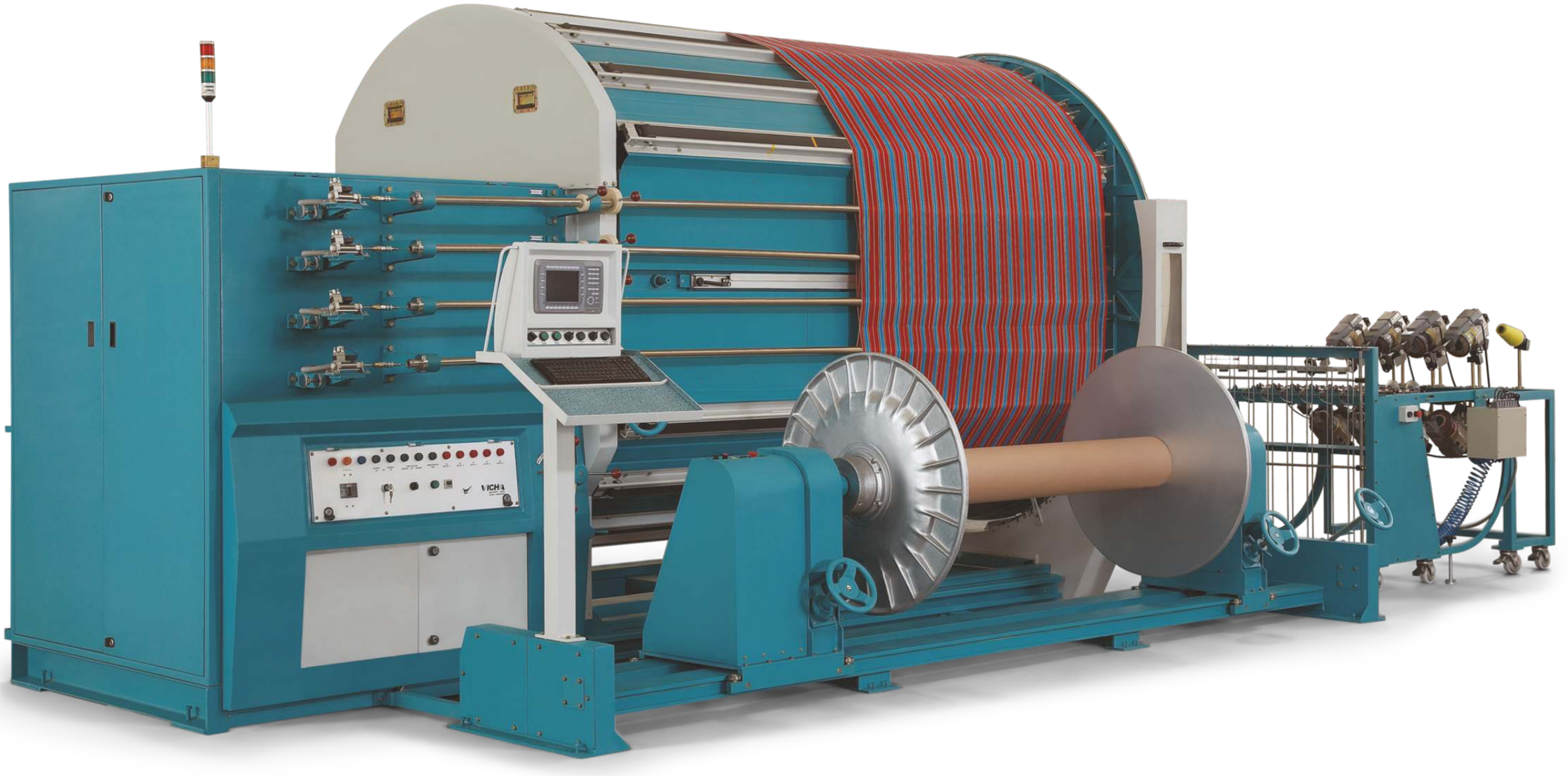




No.	WW	Length	Width	Height
1	1900 mm	8225 mm	5815 mm	3140 mm
2	2200 mm	8525 mm	5815 mm	3140 mm
3	2400 mm	8725 mm	5815 mm	3140 mm

Single End Sample Warper

Samplematic 8S



1000 MPM

5 - 500 Tex

Features Highlights

Single End Sample Warper is the need of the hour for any modern weaving unit. This product enables manufacturers to produce sample warps of short lengths (less than 100 Mtr) more efficiently.

The Single End Sample Warper reduces the sampling cost and eliminates yarn wastage, producing a clear 'replica' of the sample fabric to be weaved in bulk. Effectively saving time, this Single End Sample Warper produces a warp sample in a limited amount of time.

Given its time saving capabilities and effective use of yarn, this Single End Sample Warper will help you reap the rewards of your investment in just a few months.

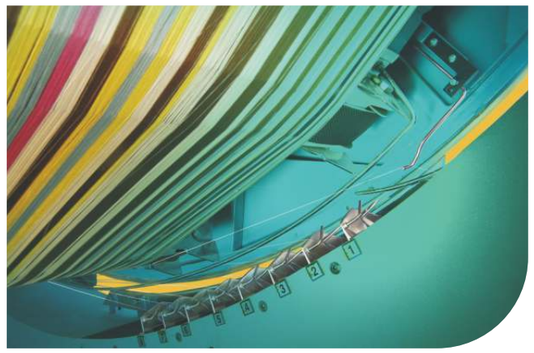
Technical Features

Drum circumference	7000 mm
Warping width	1900 mm (Higher width on request)
Warping length	7-105 Mtr
Warping speed	1000 MPM
Thread pick up speed	500 MPM
Thread change speed	500 MPM
No. of colour feeder	8
Max. beam flange dia.	600 -1000 mm

Single End Sample Warper
Samplematic 8S

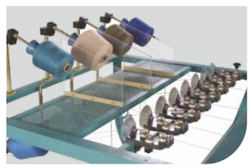
Optional Accessories

- Accumulator with control panel for stationary creel
- Rotational creel having 8 ends with accumulators and control panel









User Friendly Programmable Pattern Entry

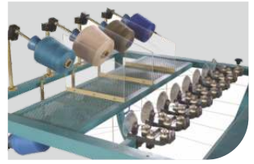
Pre-programmable warp pattern for unlimited warp designs patterns. Precise response control for thread pick up and thread change speed by a compact digital AC drive, synchronized with pre-programmable thread feeder pneumatic element. Thread movement through a precise engineering conveyor belt, driven by advanced motion control.

Stationary Creel 8S

Up to a maximum of 8 different colours of warp can be used. User friendly and programmable. Various pattern selection. Specially developed sensor does not allow miss or double ends. Option of thread accumulator available with 8 cone holder frame.

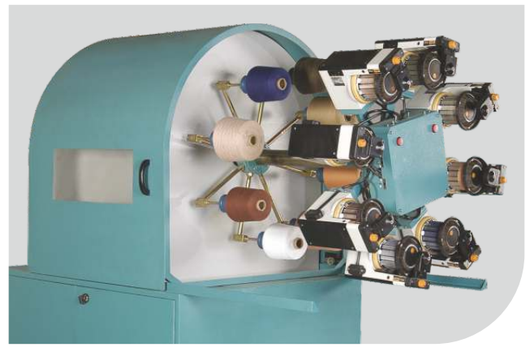






Rotary Creel 8R

Up to maximum 8 ends can be placed with implies up to maximum 8 threads being warped at the same time. This increases the warping efficiency significantly. The creel is precisely synchronized by a variable frequency digital A.C. drive and quick response thread accumulator.



Sample Warper

Samplematic Mini



300 MPM

5 - 500 Tex

For preparation of sample warps, short warp and creative warp samples

At present global textile market becomes more competitive / fashion oriented with shortest lead time requirement . This advancement may help to various segment like yarn dyed shirting / suitings / furnishing / technical textiles to create sample with minimum material and soonest possible time frame .

Mini Sample Warping Samplematic Mini has been developed to handle the production of short run warp beam and is specifically developed to offer different options to meet the diverse needs of warping width, can perfectly work with Sampling Rapier Weaving Machine.

Sample Warper can make warp in minimum width respectively for swatch sample, final product, besides, its design concept just requires one bobbin for each colour and eliminates the hassle of preparing a great number of yarn bobbins. The user friendly machine operates with compact integrated stationary creel.

Technical Features

Drum circumference	2500 mm
Warp width	500 mm (50 cm) | 900mm (90 cm)
Warping length	5-30 Mtr (Depend on warp material used)
Yarn range	5-500 Tex
Warping speed	300 MPM
Beaming speed	10 MPM
No. of colour feeder	8
Maximum beam flange dia	100 mm
Package selection	Automatic by controller
Pattern selection	Automatic by controller
Belt drive	Through servo drive
Beaming tension	By drum braking through pneumatic cylinder
Creel type	Stationary
Belt traverse	Servo driven
Yarn selector	Pneumatic operated

Sample Warper
Samplematic Mini

Features Highlights

Belt Shifting

The belt shifting is fully automated to match requirement of different density warp preparation with advanced motion controller through servo drive.



Stationary Creel

Stationary creel combines accumulators / tensioners / stop Motion for increasing efficiency of yarn feeding and speed control during warping. With maximum possible 8 colours feeder duly synchronised with warping operation.





Leasing Capability

The machine offers two Leasing (Pneumatically operated Leasing with 1 Cross and 1 Cut Lease) for subsequent operations of knotting and drawing. Both leasing rods are installed on a stand that moves laterally, synchronized with the movement of the belt and feeder hook to ensure proper leasing.



Electronic Stop Motion

Easy way by the self activation of the yarn stop motion and by the clear signalling of the place of yarn breakge and machine stop immediately.

HMI

Advanced HMI (Touch screen) for easy operation and display of all running data/ process data/ trouble shooting with real time data.



Integated Beaming Device

To minimize space occupancy, the beaming device is integrated with the machine. It is driven by an inverter driven geared motor with adjustable warp tension.

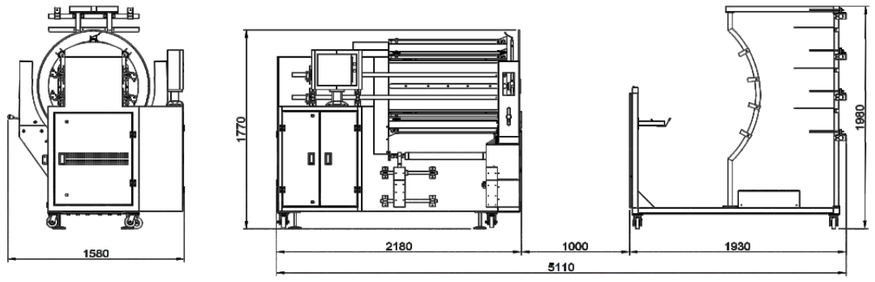




Automatic Colour Changing Device

Efficient and quick colour selection change over with advance software optimisation.

Layout Drawing



No.	Working Width	Length	Width	Height
1	500	5110	1580	1980
2	900	5510	1580	1980





Features Highlights

The Single End Sizing Machine for the warp is an asset to the sampling department by contributing to the quality and efficiency of the weaving process.

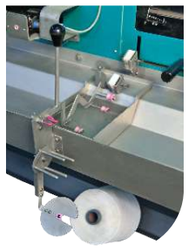
Using a combination of three processes coating (sizing), drying and continuous winding on an individual spindle, this machine greatly improves weaving efficiency, resulting in quicker samples.

Technical Features

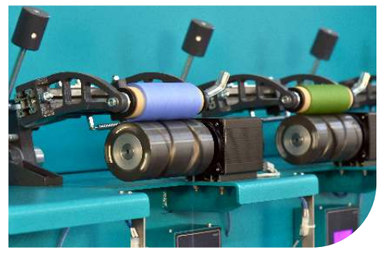
No. of spindles	1 / 2 / 4 /8 (As per request by customer)
Machine type	Individual spindle driven
Skeleton winder motor	Controlled by individual AC motor
Package winding motor	Controlled by individual AC motor
Winding speed	0-250 MPM (Depend on the type of yarn)
Yarn count	10'-120 Ne / 40-500 denier
Drying	Electrical heating
Temperature control	40°- 60°C (Individual temperature control)
Stop motion for broken ends	Individual sensor
Sizing solution tank	SS fabricated size chemical tank
Sizing solution circulation	Pump provided on common size tank
Hot air circulation device	To maintain uniform temperature in drying chamber through individual blower motor
Length meter	Controlled by individual monitor
Winding type	Parallel / Conical (5.7")
Length measurement	Electrical counter meter
Display	Monitoring - length / temperature / broken end (With feather touch)

Single End Sizing
Sizematic

- The ergonomically designed and individual spindle driven Rabatex Single End Sizing Sizematic is available in 1/2/4/8 spindle configuration.
- The machine offers easy yarn passage, there is no excess yarn tension and easy to handle yarn breaks.
- The Sizematic comes with a grooved drum or yarn traverse system for polyester yarn and the length measuring system.
- It is possible to size yarn counts between 10's and 120's Ne and 40 to 500 denier at winding speeds of up to 250 MPM, depending on the yarn quality.
- The Sizematic comes with an electrical heating system to dry the yarn. The air circulation fan and the temperature controller, provide uniform temperature for all spindles, to ensure and maintain an even drying.
- The great advantage of the technology is that it is suitable to run different dyed shades with a provision for an individual spindles or multi spindle size tray.
- The Sizematic has a SS fabricated size tank, with a temperature controller and the size circulation is done through a SS pump which keeps the size uniform throughout the process.
- Special sponge pads for squeezing provide an even size application on yarn.
- The motors are driven by AC inverter and the speed can be varied.
- Rabatex Single End Sizing Sizematic offers several benefits by providing sized yarn of the highest quality to ensure trouble free and smooth weaving operations.



Size Tray
SS fabricated sizing tank, the machine offers common size as well individual spindle size tank with the arrangement of yarn dipping with continuous and even coating.



Winding Mechanism
Surface driven winding mechanism with over weight system to provide continuous and even winding, maintain tension throughout the operation.

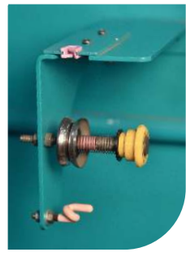
Common Size Circulation Tank
Common size tank circulation, SS fabricated tank, equipped with motor to circulate the size liquid to the machine.





Length Meter
Individual spindle have length meter and synchronised with the entire machine operation, with start/ stop buttons, speed control buttons.

Yarn Tensioners
Disc and spring type yarn tensioner, to provide and maintain the tension through out the winding.



Safety Sensor
Provide safety sensor for brekage of yarn, indicate by the light and stop the individual spindle immediately.





Drying Chamber (Front View)
Drying chamber have sliding door for temperature control and for safety precaution.



Drying Chamber (Rear view)
The drying chamber has a rear opening sliding for easy access to clean the skeleton and belt.





Rabatex Sample Weaving Weavematic Plus has a recent & everlasting design philosophy that reflect into reality

- The most recent update in the Rabatex group is the Weavematic Plus which introduces most advanced ways to weave your sample.
- Weavematic Plus bridges the gap between perfect sampling and ease of operation, thereby provides infinite possibilities for creating the best fabric samples.
- The imagination meets the reality of master stroke for sampling while infinite variety of yarns transform into fabric construction.
- It certainly is a perfect instrument with the precise engineering and innovation to have the highest range of yarns that can be handled easily.
- Thus Weavematic Plus efficiently fabricates extensive attire of woven samples from apparel to technical textiles.

Technical Features

Working width	500 mm (50 cm) | 900mm (90 cm)
Machine speed	90 ppm maximum
Beat up	Controlled and driven by the independent servo motor
Shedding	20 heald frames controlled electronically and driven pneumatically
Let off	Electronically controlled (Through Servo drive)
Take up	Electronically controlled with variable density
Weft selector	Electronically controlled up to 8 colours
Weft insertion	Flexible single rapier weft insertion (Through servo drive)
Weft break sensor	Furnished with weft break sensing device



Integrated Stationary Creel



Welt Tensioners Assembly

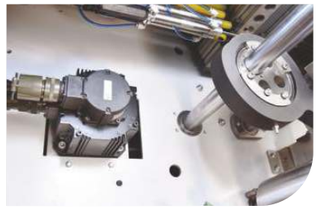


Weft Stop Motion



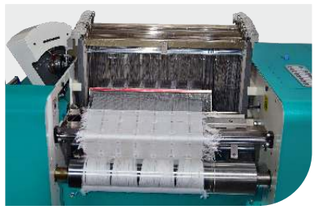
Catch Cord Assembly

Sample Rapier Weaving
Weavematic Plus



Beat up Mechanism

The beat up device is controlled and driven through the independent servo motor. One can adjust the speed / time of beat up motion through the panel. Manual movement of beat up/ reed (forward and reverse) is accompanied in the system.



Shedding Mechanism

Weavematic Plus can be equipped with 20 shafts with smooth operations with pneumatic equipment from the world class manufacturer of pneumatic automation products. To provide optimum comfort to the end user. Quick loading and unloading of heald frames.



Algorithmic Weft Density Command System

Electronic take up motion is driven by the stepper motor, with the help of variable weft density, exclusively programmable and synchronised with the dobby design, it is possible to weave different weft density in a single weave repeat.



Weft Carrier

Flexible single rapier weft insertion is carried out through the servo drive.

Extra Accessories

1. Top beam attachment
2. Motorised weft cutter
3. Jacquard with gantry



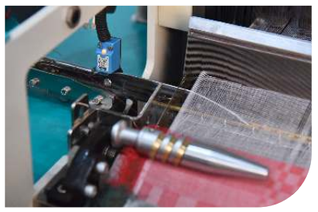
Computational Weft Selection System

Pattern of wefts / colours is achievable from the simplest weft selection system.



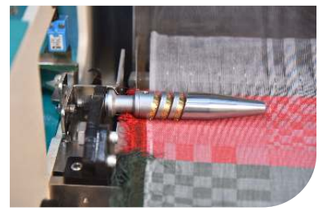
Auxiliary Selvedge Cutter (Optional)

An electronic motorized cutter is available as an option to cut the auxiliary selvedges.



Yarn Cutter (Optional)

To precisely cut the filing weft yarn



Facility of Temples (Optional)

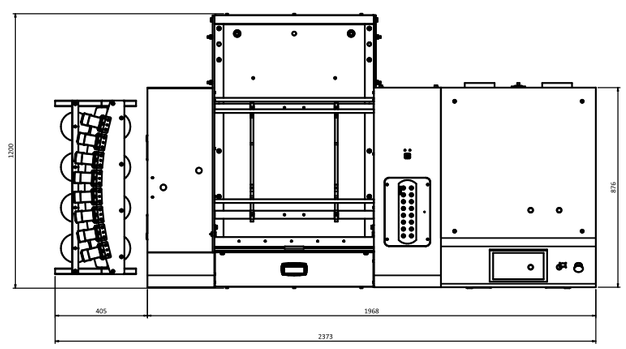
Different types of temples are possible to mount at the fell of cloth if fabrics demands.



Algorithmic Warp Tension Command System

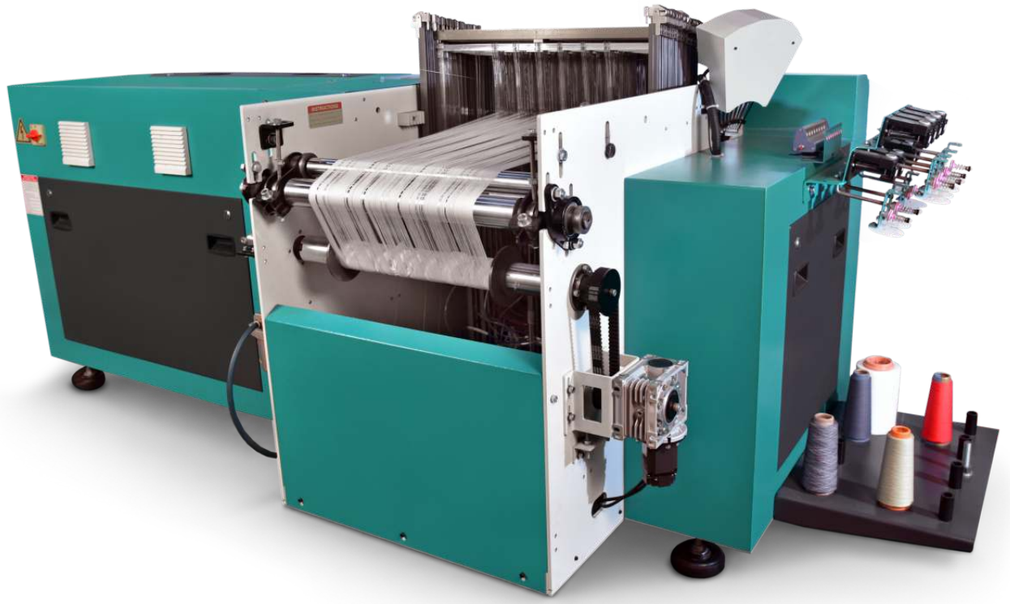
Mounting mechanism of whip roller and load cell are specially designed to get proper response of warp sheet tension. This will lead to almost constant tension on warp sheet during weaving process driven by the stepper motor, one can set the tension value is useful to record the particular fabric sample weaving parameters (There is an option of twin beam like bottom beam and top beam). In this case, both let off systems work independently.

Layout Drawing



No.	Working Width	Length	Width	Height
1	500	2373	876	1200
2	900	2773	876	1200





Rabatex Sample Weaving Weavematic has a recent & everlasting design philosophy that reflect into reality

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- Weavematic bridges the gap between perfect sampling and ease of operation, thereby provides infinite possibilities of creating best fabric samples.
- The imagination meets the reality of master stroke for sampling while infinite variety of yarns transform into fabric construction.
- It certainly is a perfect instrument with the precise engineering and innovation to have the highest range of yarns that can be handled easily.
- Thus Weavematic efficiently fabricates extensive attire of woven samples from apparel to technical textiles.



Integrated Stationary Creel



Welt Tensioners Assembly

Technical Features

Working width	500 mm
Machine speed	45 ppm maximum (Higher on request)
Beat up	Controlled and driven by the independent servo motor
Shedding	20 heald frames controlled electronically and driven pneumatically
Let off	Electronically controlled (through servo drive)
Take up	Electronically controlled with variable density
Weft selector	Electronically controlled up to 8 colours
Weft insertion	Rigid single rapier weft insertion
Weft break sensor	Furnished with weft break sensing device

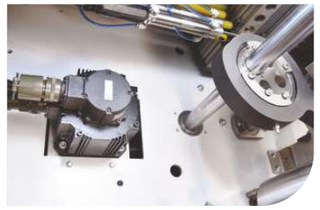


Weft Stop Motion



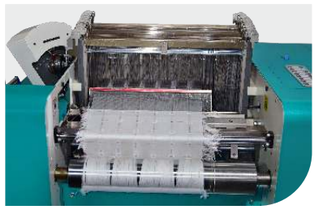
Catch Cord Assembly

Sample Rapier Weaving
Weavematic



Beat up Mechanism

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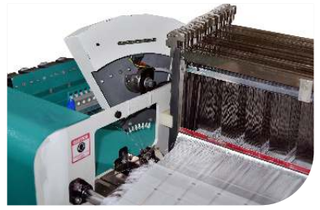


Weft Carrier

Flexible single rapier weft insertion is carried out through the servo drive.

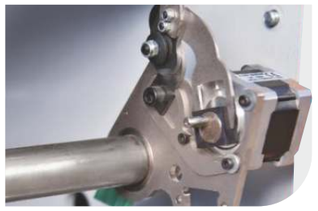
Extra Accessories

1. Top beam attachment
2. Motorised weft cutter
3. Jacquard with gantry



Computational Weft Selection System

Pattern of wefts / colours is achievable from the simplest weft selection system.



Auxiliary Selvedge Cutter (Optional)

An electronic motorized cutter is available as an option to cut the auxiliary selvedges.



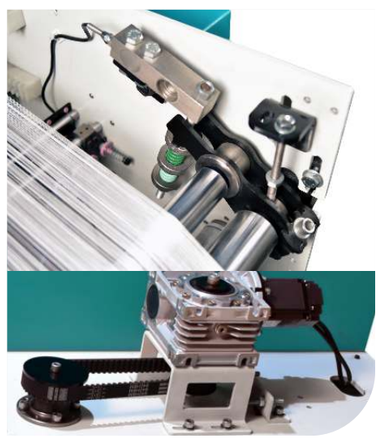
Facility of Temples (Optional)

Different types of temples are possible to mount at the fell of cloth if fabrics demands.



Yarn Cutter (Optional)

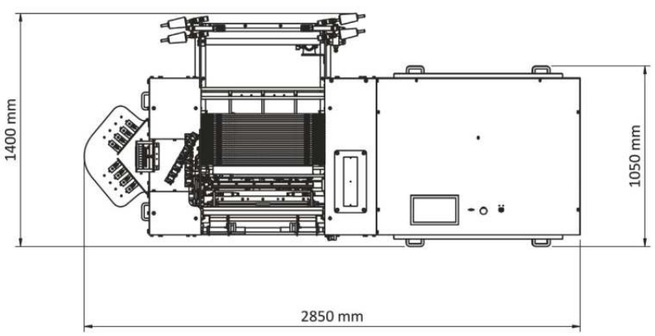
To precisely cut the filing weft yarn and synchronised with beat-up motion.



Algorithmic Warp Tension Command System

Mounting mechanism of whip roller and load cell are specially designed to get proper response of warp sheet tension. This will lead to almost constant tension on warp sheet during weaving process driven by the stepper motor, one can set the tension value is useful to record the particular fabric sample weaving parameters (There is an option of twin beam like bottom beam and top beam). In this case, both let off systems work independently.

Layout Drawing



No.	Working Width	Length	Width	Height
1	500	2850	1050	1400

Drawing-in Stand Carrier

Trolley is designated for drawing in of warp sheet from beam to heald frames.



Warp Beam & Reed Storage Carrier

Trolley is design for storage of warp beam from Samplematic Mini as well as variety of sample weaving machine reeds.





Warp Beam Carrier with Heald Frame Support (Gaiting Trolley)

Trolley is designated for lifting and transporting drawn warp beam in connection with harness carrier, lifting and lowering movement take place from the drawing stand, so that the beam can be fitted on the Weavematic very conveniently. Harness holder provided with carrier.

Fabric Sampling

Full Width Sampling
(190-240 cm Width/800-1100 Flange Dia/21-450 Mtr Length)



Sizematic



Samplematic 16R



Samplematic 8S



Drawing In Stand



Weaving Machine



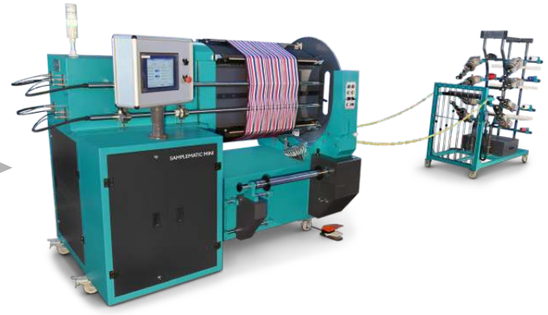




Short Width Sampling
(50 - 90 cm width / 5-30 Mtr Length)



Sizematic



Samplematic Mini

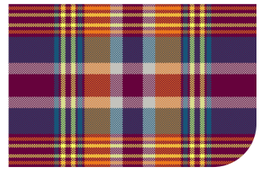


Drawing In Stand



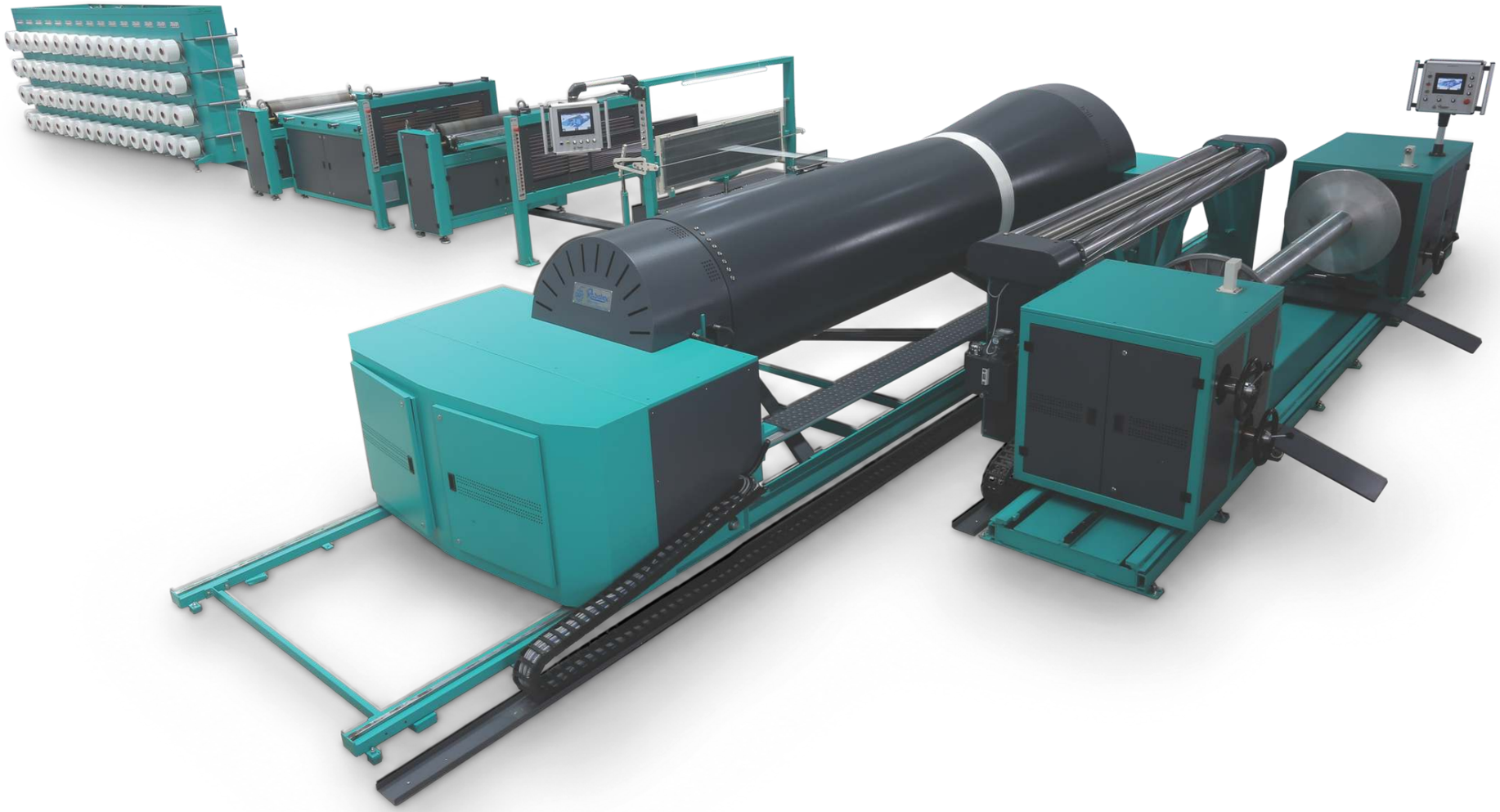
Weavematic







Mono Mother Yarn Split Sectional Warper
Splitmatic SW



Features Highlights

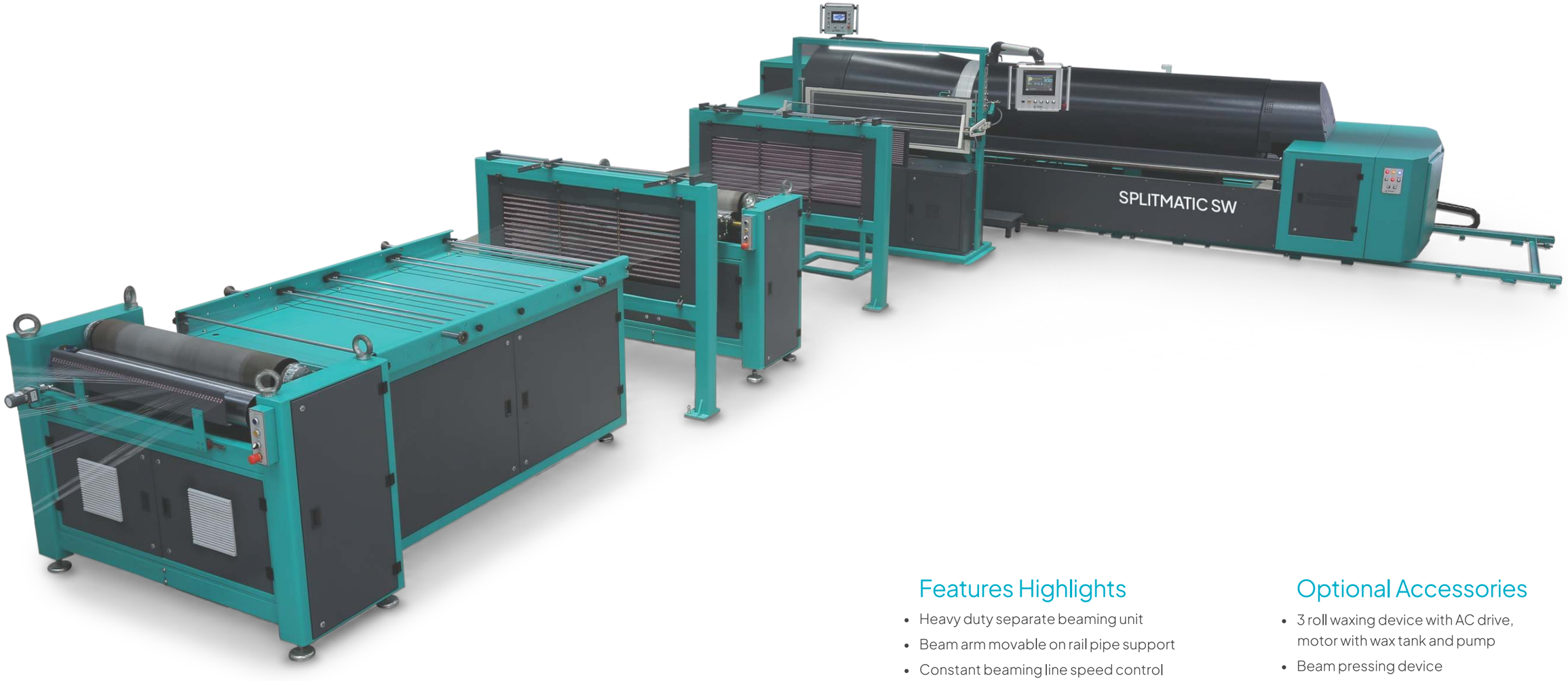
- Reed table traverse through AC servo drive on precise ball screw
- Closest yarn delivery to drum for avoiding misalignment of section width and cross ends
- Easily accessible warping desk board
- Energy efficient powerful disc brakes with accumulator
- Fully PLC controlled
- Inbuilt printer for process data sheet
- Separate HMI at warping as well as beaming

Technical Features

Useful working width	1900 mm to 4400 mm
Beam flange dia	1000 mm
Cone length	1300 mm
Drum circumference	3140 mm
Section width	400 mm (Higher on request)
Maximum warping speed	400 MPM (Mechanical speed 700 MPM)
Maximum beaming speed	150 MPM

Mono Mother Yarn Split Sectional Warper

Splitmatic SW



Features Highlights

- Heavy duty separate beaming unit
- Beam arm movable on rail pipe support
- Constant beaming line speed control
- Direct beam drive
- Individual hydraulic donning/doffing device
- Safety device (Photo cell)
- Foot pedal for hands free start / stop operation
- Reverse direction locking
- Twin creel option (With extended rail, extra leasing stand and control panel)

Optional Accessories

- 3 roll waxing device with AC drive, motor with wax tank and pump
- Beam pressing device
- Static eliminator for warping table and leasing device
- GSM modem for remote diagnosis
- Eyelet board with stand
- Flutted roller

Mono Mother Yarn Split Sectional Warper
Splitmatic SW



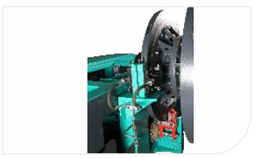
Separate Beaming with Powerful Transmission

- Heavy duty separate beaming unit
- Heavy duty gear box with maximum transmission efficiency
- Maintenance free performance
- Beam loading/unloading with separate hydraulic unit
- Foot pedal for hand free operation in slow speed



Advance Hydraulic System with Oil Coolant System

- Hydraulic system with effective braking system
- In built zero pressure kit
- Coolant system for temperature control inorder to have better life of oil as well as all oil seal set
- Auto tension control while beaming
- Rapid stop by the brake when power fail



Drum Disk Brake

- Hydraulic system with effective braking system and an in built zero pressure kit
- Powerful disk Brake on both side of the drum having heavy duty brake disk with self cooling design



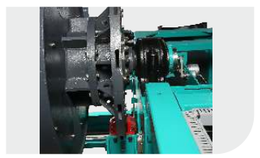
Guide Roller & Anti Static Device

- Reed table guide roll assembly for easy access of warp sheet
- High power with shock proof static eliminator
- Easy opening and quick accessibility



Servo Drive & Motor

- Reed table and machine traverse through AC servo drives
- To match accurate section position from first to last



Encoder Assembly

- To achieve precise control of line speed
- Precise length counting in warping and beaming



Warping Direct Drive

- Direct V belt transmission for drum drive



Lease Hook

- Easy to hook lease thread on drum for cross lease and seven lease



Advance Reed Table

- The reed table is made up of mild steel, all movable parts running on linear guides
- Constant distance of the warp guide roll to the wound up material
- Foot pedal for hand free operation in slow speed



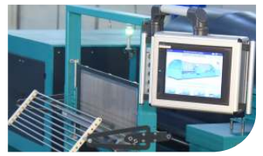
Front Flat Reed

- Suitable brackets are provided for carrying the flat warping Reed
- Easy to adjust section width manually
- To and fro movement while operation to ensure close distance



Large Colour Graphical Touch Screen Display (HMI)

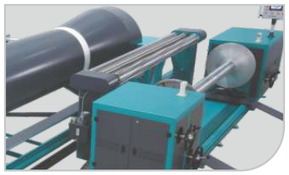
- Colour touch screen (HMI)
- Graphical display of all event occurrence
- Lost end memory with precise stop during beaming
- End breakage data storage
- Advance software for 7 split lease and cross lease
- IO status for quick trouble Shooting



Programmable Leasing Device

- Motorized leasing device
- Pre determined top middle bottom position stop
- Splitting frame to and fro movement for better lease opening
- Reed oscillation to increase the life of the reed

Optional Accessories



Waxing Device

- 3 roll waxing device with SS wax tray, circulation storage tank with pump and motor synchronized waxing speed
- The Center SS roll is driven by a gear box and an AC motor with variable speed
- AC drive for SS guide roll



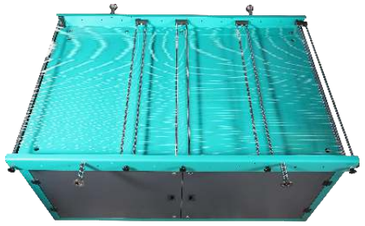
Criya Board

- Reduce lateral angel between stop motion to leasing device provided with ceramic eyelet

Mono Mother Yarn Split Sectional Warper
Splitmatic SW

Split Table



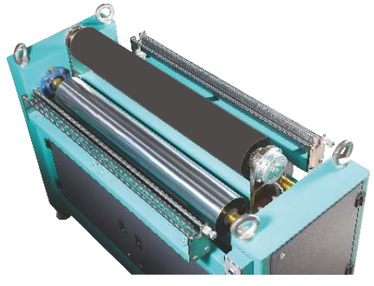


Stop Motion





Roller Assembly

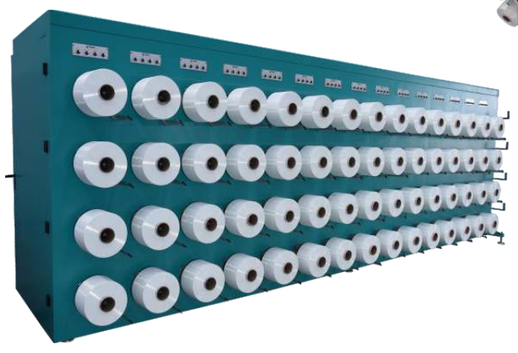


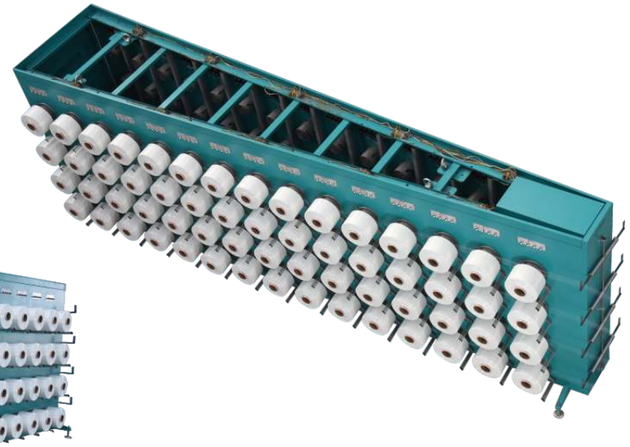


Tension roller drive	Advanced drive system
Brake control	Provided
Criya board oscillation	Provided
Press roller	Pneumatic operated

Split Unwinding Creel





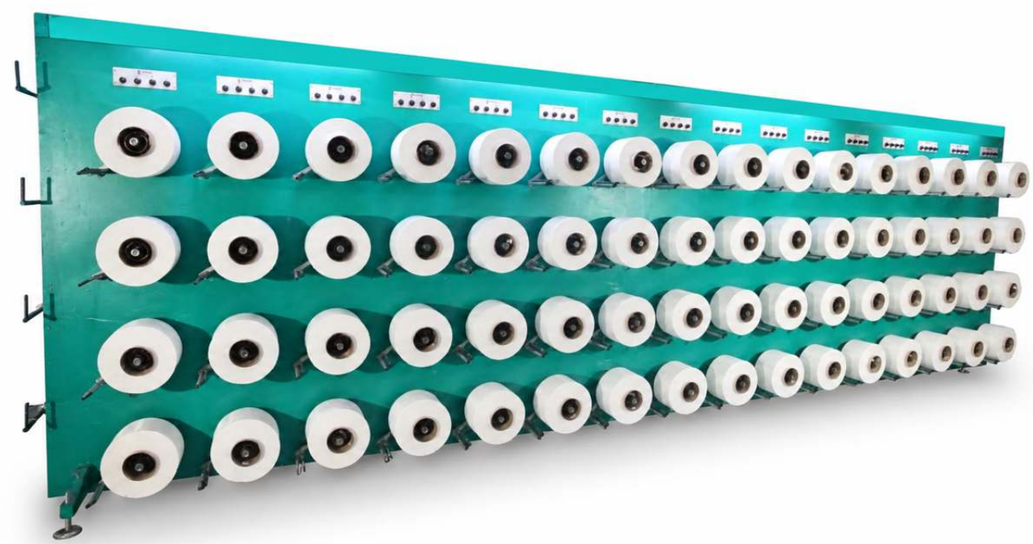


Maximum package dia		380 mm
Creel pitch		400 mm
Vertical deck		4
Standard filament		12 (Higher on request)
Creel ends		128/144 /160 (Higher on request)
Spindle drive		Individual motor drive
Controller		PLC controller with AC drive
Individual package braking	:	Provided
Yarn guide assembly		Provided
Unused package bypass	:	Provided

Mono Mother Yarn Direct Split Warper

Splitmatic DW





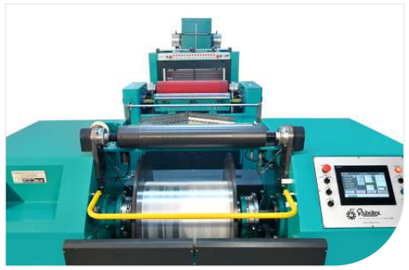
Features Highlights

- Heavy duty beaming unit
- Motorized beam load /unload assembly on linear rail guide with precise beam auto detection sensor
- Motorized beamer beam chuck / de chuck with torque limiter
- Constant beaming line speed control
- Encoder on measuring roll for beaming precise length and line speed control
- Constant beaming thread tension
- Motorized comb assembly to adjust precise yarn sheet width with motorized oscillation
- Automatic tapping operation
- Motorized tap body up/down with precision sensor

Technical Features

Useful Working width	535 mm(21 Inch)
Beam flange Día	762 mm (30 Inch)
Warping speed	300 MPM to 600 MPM
Maximum Package Dia	380MM
Creel pitch	400 mm
Vertical deck	4
Standard filament	12 (Higher on Request)
Mother yarn creel End	72/80/96/104 ends (Other on request)
Spindle Drive	Individual Motor drive
Controller	PLC controller with Ac Drive
Individual package braking	Provided
Yarn Guide Assembly	Provided
Unused Package Bypass	Provided
Suitable warp	Polyester/Nylon / polyamide

Mono Mother Yarn Direct Split Warper
Splitmatic DW



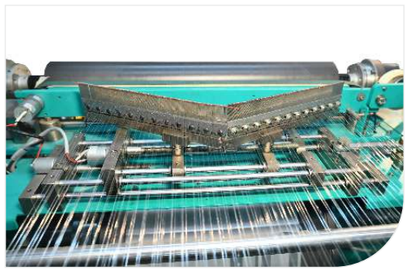
Rigid and Powerful Warping Head (Beaming Unit)

- Heavy duty beaming unit with powerful electromagnetic brake for instant stop
- Heavy duty transmission drive for maximum efficiency
- Noiceless and maintenance free performance
- Motorized beam loading/unloading which auto positioning as per warp beam size
- Motorized beam chuck / de chuck with torque limiter
- Operator safety guard provided
- Comb assembly with flexible width adjustment as per requirement of yarn sheet width



Beam Chuck / De Chuck Assembly

- Chuck / de chuck assembly having brake motor and torque limiter
- Both end main shaft having tapper adaptor and heavy duty spring plate to avoid slippage
- Heavy duty bearing for smooth running of machine on clutch plate.



Front Comb Assembly

- The front comb assembly is made up of mild steel and with all movable parts running on linear guides and screw
- Motorized assembly to adjust warp sheet width between flanges
- Motorized assembly for warp sheet LH or RH movement to set beam center
- Motorized assembly for comb oscillation to reduce dent mark and increase life of comb



Roller Assembly

- Provided PU roller for smooth/noiseless operation for long lasting life
- Provided 2 nos. of hard chrome plated roll with magnetic brake and drive assembly
- Eyelet board provided with oscillation arrangement
- Having sensor on both side of roller for safety purpose



Stop Motion Assembly

- Dual sensor type (Mechanical and optical sensor)
- Quick response to transfer signal
- Optional provision for 16 filaments

Drum Disc Brake

Powerful Twin magnetic heavy duty disc brake on both side of the beam drive shaft for instant stop





Large Color Graphical Touch Screen Display

- Color touch screen (HMI)
- Graphical display of all event occurrence
- End breakage data storage
- 10 status for quick trouble Shooting

Measuring Roller Assembly

- Measuring roller having encoder to measure the precise length and control the line speed
- Magnetic brake at both ends for instant brake





Beam Load/ Unload Assembly

Beam load/unload assembly having motor and gear box for smooth load unload and noiseless operation automatic achieve load position according to beam flange diameter

Motorize Tape Assembly

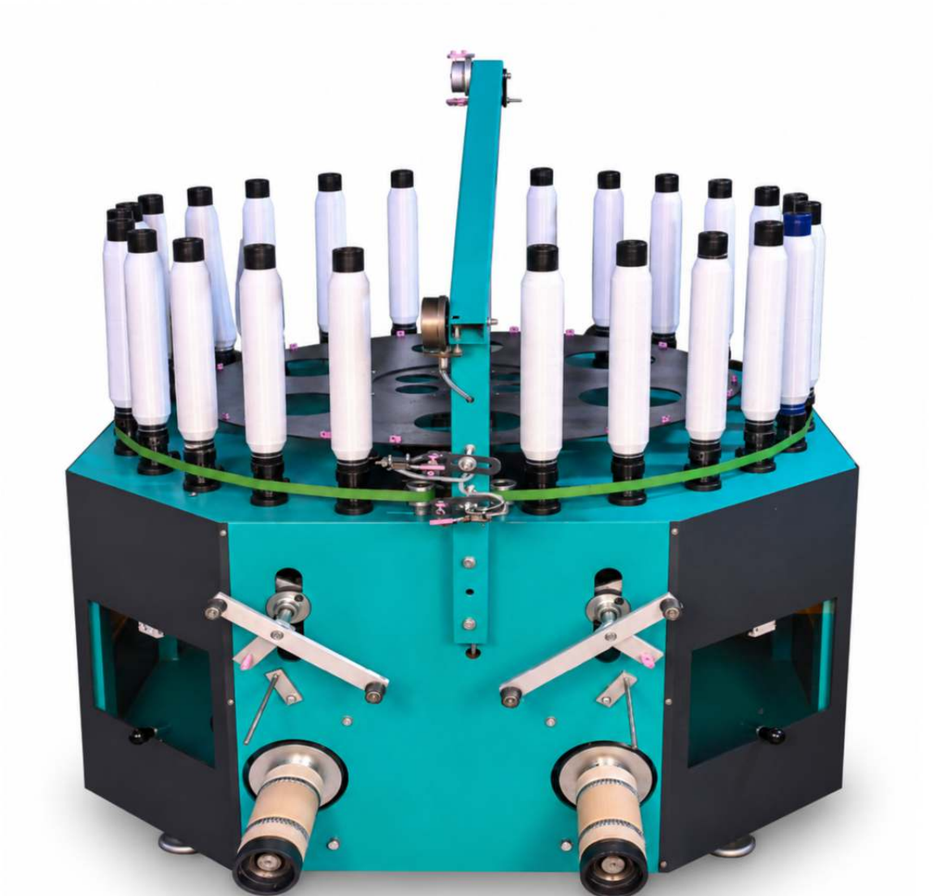
Warp sheet tapping assembly controlled by the PLC Tapping Assembly having up and down movement for easy fix tap on warp sheet



Mono Mother

Splitmatic Winder





Features Highlights

- Energy efficient
- Large LCD with inbuilt advanced controller
- Online actual length measurement
- Line speed controlled by controller
- Winder speed controlled by variable frequency drive
- Winding pitch angle controlled by stepper drive
- Mother yarn tension control

Technical Features

No. of mother yarn package holder	2 Nos
No. of filament per mother yarn	12
Winding output package	Alluminium COPS
No of spindle	25 Nos. (12 Filament x 2 package + 1 spare spindle)
Winding speed	Up to 1000 MPM
Yarn brake	Through sensor and indicator
Mother yarn tension control	Through spring loaded mechanism
Length measurement	Through sensor
Winding stroke	Up to 400 MM
Winding pitch	0.05 MM to 1MM
Winding motor	1 HP AC motor
Winding drive	AC drive
Winding traverse controlled by	Through stepper motor
Input power supply	230v single phase

Mono Mother
Splitmatic Winder

Features Highlights

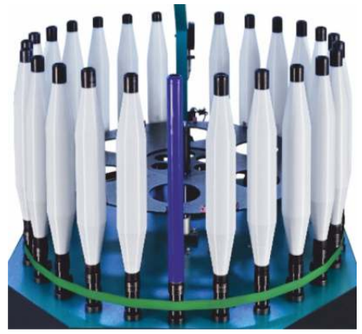
- Provided variable winding pitch setting for precise cops winding
- Provided variable winding stroke setting for precise winding angel
- Auto stop when yarn breakage and alarm pop with buzzer sound
- Set length completed alarm pop with buzzer sound
- Auto set point restoration after yarn breakage and power failure



Operating Panel With Inbuilt Advance Controller

- Inbuilt advance controller
- Large LCD with white background display
- On board push button station
- Set length / set speed / actual speed display
- Alarm POP : Ends breakage / Length complete
- Inbuilt buzzer if any alarm occurs
- User friendly operation





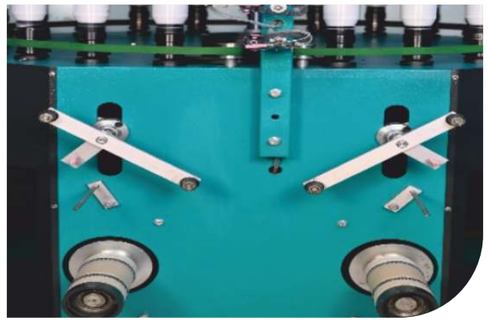
Spindle Assembly

- High precision spindle assembly with linear bearing
- Suitable for all types of mother yarn cops
- Oil cooled housing for self lubrication of spindle and smooth running



Winder Drive Assembly

- Direct drive provided for highly efficient performance
- Noiseless belt drive
- Easy to maintain
- Speed controlled by AC drive



Mother Yarn Bobbin Holder and Tension Control Assembly

- Bobbin holder suitable for all type of mono mother yarn bobbin
- Easy to fix mono mother yarn bobbin
- Self tension controlled by tension spring according to speed



Length / Speed Control Sensor

- Speed sensor measure the length of mother yarn wound on cops
- Speed sensor to control the line speed as per set speed parameter

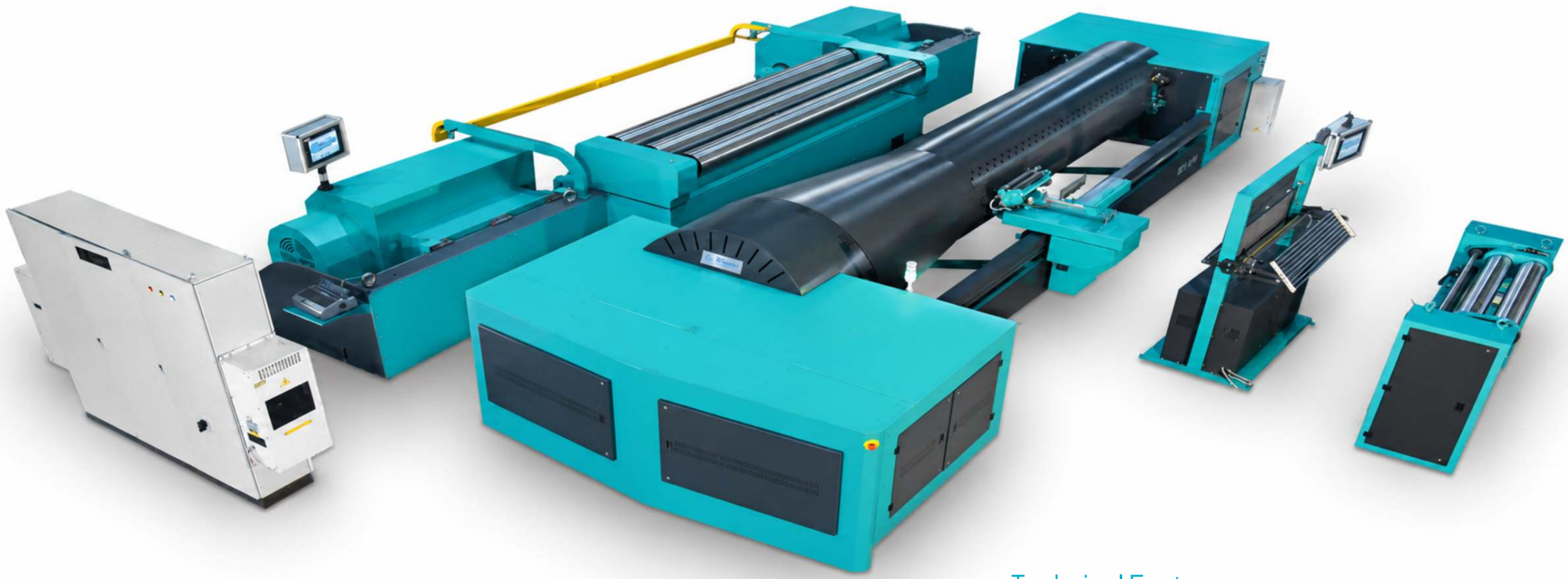
End Break Sensor

- Sensor detects loose yarn or yarn breaks
- Sensor provide the signal to the PLC controller for instant stop



Technical Textile Sectional Warper

Techmatic



Features Highlights

- Laser sensor for yarn built up measurement and automatic setting of feed value
- Traverse of reed table through precise digital AC servo drive
- Reed table and feeder table traverse are controlled by precise ball screw through linear guides
- Easily accessible warping switch board
- Feeder roller (kick back type) for compact warp winding with individual digital AC servo drive
- Load cell on reed table for section tension control during the warping process
- Timing Belt Drive in machine to reduce the noice and maintenance
- Closest yarn deliver to drum for avoiding cross over ends
- Energy efficient powerful double disc brake with accumulator Fully PLC controlled
- Safety provision for warping and beaming
- Inbuilt printer for processed data sheet
- Online actual length measurement Reverse rotation of drum for easy/quick lease pattern
- Air Blow Device on Reed table to remove fluff insertion in warping process
- Air Cooling fan for brake disc for better life of brake liner

Technical Features

Useful working width	1900 mm to 4400 mm
Beam flange dia.	800 mm to 1250 mm
Drum circumference	3140 mm
Cone degree	7° to 13°(can be customize)
Cone length	1300 mm to 2200 mm
Section width	300 mm to 650 mm
Maximum warping speed	250 MPM @ 5KN | 350 MPM @ 3KN | 450 MPM @ 2KN (Higher on Request)
Maximum beaming speed	25 MPM @ 90KN | 60 MPM @ 40KN | 100MPM @ 20KN (Higher on Request)
Density measurement	Through laser sensor
Disc Brake Cooling System	Force Cooling - Air Blow
Section Tension	Up to 5000N (500Kg)
Beaming Tension	Up to 90000N (9000KG)
Tensioner	Jumbo KFD – Oil dumping or Rabatex Tensioner
Suitable Warp	Polyester/ Nylon / Carbon/ Kevlar / Aramide/ Mono Filament / Other Composite yarns

Technical Textile Sectional Warper

Techmatic



Features Highlights

- Colour touch screen (HMI)
- 3 Axis servo controlled
- Automatic section start position for X table (reed table), Y table (feeder roller), machine traverse and drum position at a time
- Constant warping line speed control
- Direct drive for warping drum/beam drive for efficient energy saving
- Programmable leasing device for quick and easy sheet opening with oscillation of reed during machine run
- Split frame to and fro movement (optional)
- Graphical display of all input accessories for easy trouble shooting
- Display of electronic devices parameter i.e. Load / RPM of servo motor and drive
- Graphical display of all event occurrence
- End breakage data storage
- Lost end memory with precise stop during beaming
- Display of all calculated data
- UPS for backup during power failures to protect critical data
- Safety photocell at warping side
- Mechanical Safety Guard at Beaming side
- Advanced software for 7 split lease and cross lease
- Fault diagnosis chart
- Multi language display screen
- PLC controlled 3 axis leasing device oscillation split rod open close while machine stop (optional)
- Pneumatic evener roller
- 15" HMI at warping as well as beaming
- Laser sensor for yarn built up measurement & automatic setting of feed value
- Heavy duty separate beaming unit
- Beam arm movable on precise linear rail guide
- Motorized beamer head movable on precise linear rail guide
- Direct beaming drive (double gear unit)
- Constant beaming line speed control
- Load cell on guide roll for precise tension control during the beaming process
- Constant beaming thread tension through servo valve
- Separate hydraulic power pack for Donning / Doffing device
- Operating desk board on both RH / LH side as well as on safety device
- Remote foot pedal for inching operation

Optional Accessories

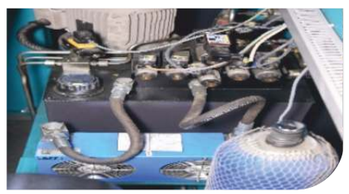
- 3 roll digital waxing device with AC drive, motor with wax tank and pump
- Beam pressing device
- Anti static discharge unit at warping table
- Anti static discharge unit at leasing device
- GSM modem
- SCADA monitoring system
- Auto tension creel control
- Tension bridge device
- Yarn guide roll stand

Technical Textile Sectional Warper
Techmatic



Separate Beaming with Powerful Transmission

- Heavy duty separate beaming unit
- Heavy duty gear box with maximum transmission efficiency
- Maintenance free performance
- Beam Donning / Doffing with separate hydraulic unit
- Foot pedal for hand free operation in slow speed
- Motorized beamer for beam chuck & de chuck
- Beam pressing device



Advance Hydraulic System with Oil Coolant System

- Hydraulic system with effective braking system
- In built zero pressure kit
- Coolant system for temperature control in order to have better life of oil as well as all oil seal set
- Auto tension control while beaming by actual tension measured by load cell
- Rapid stop by the brake when power fail
- Provision for high tension and low tension of beaming



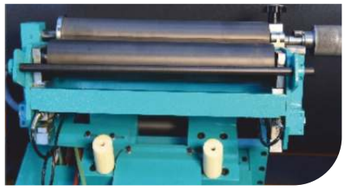
Large Color Graphical Touch Screen Display (HMI)

- Color touch screen (HMI)
- Graphical display of all event occurrence
- Lost end memory with precise stop during beaming
- End breakage data storage
- Advance software for 7 split lease and cross lease
- IO status for quick trouble Shooting
- Separate HMI for warping as well as beaming operator access



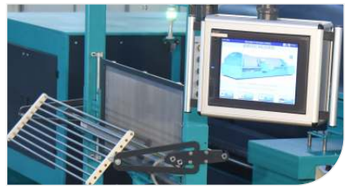
Advance Reed Table

- The reed table is made up of mild steel and with all movable parts running on linear guides and ball screw
- Constant distance of the warp guide roll to the wound up material
- Foot pedal for hand free operation in slow speed
- Evener roller for compact section built up
- Laser sensor provided to measure warp density / feed value



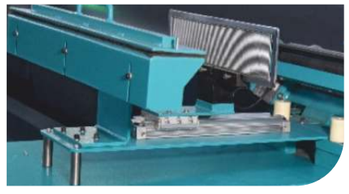
Guide Roller & Anti-Static Device

- Reed table guide roll assembly for easy access of warp sheet
- High power shock proof static eliminator
- Easy opening and quick accessibility
- Air blow cleaning system to remove fluff
- Load cell provided for section tension measure and control



Programmable Leasing Device

- Motorized leasing device
- Predetermined top-middle-bottom position stop
- Splitting frame to and fro movement for better lease opening (optional)
- Reed oscillation to increase the life of the reed



Front Flat Reed

- Suitable brackets are provided for carrying the flat warping Reed
- Easy to adjust section width manually
- To and fro movement while operation to ensure close distance



Multi Disc Braking System

- Hydraulic system with effective braking system and an in built zero pressure kit
- Powerful twin disc brake assembly on both side of the drum having heavy duty brake disc with self air cooling as well as air blow cooling system



Warping Direct Drive

- Direct gear transmission for drum drive for power efficient and noiseless operation



Encoder Assembly

- To achieve precise control of line speed
- Precise length counting in warping and beaming



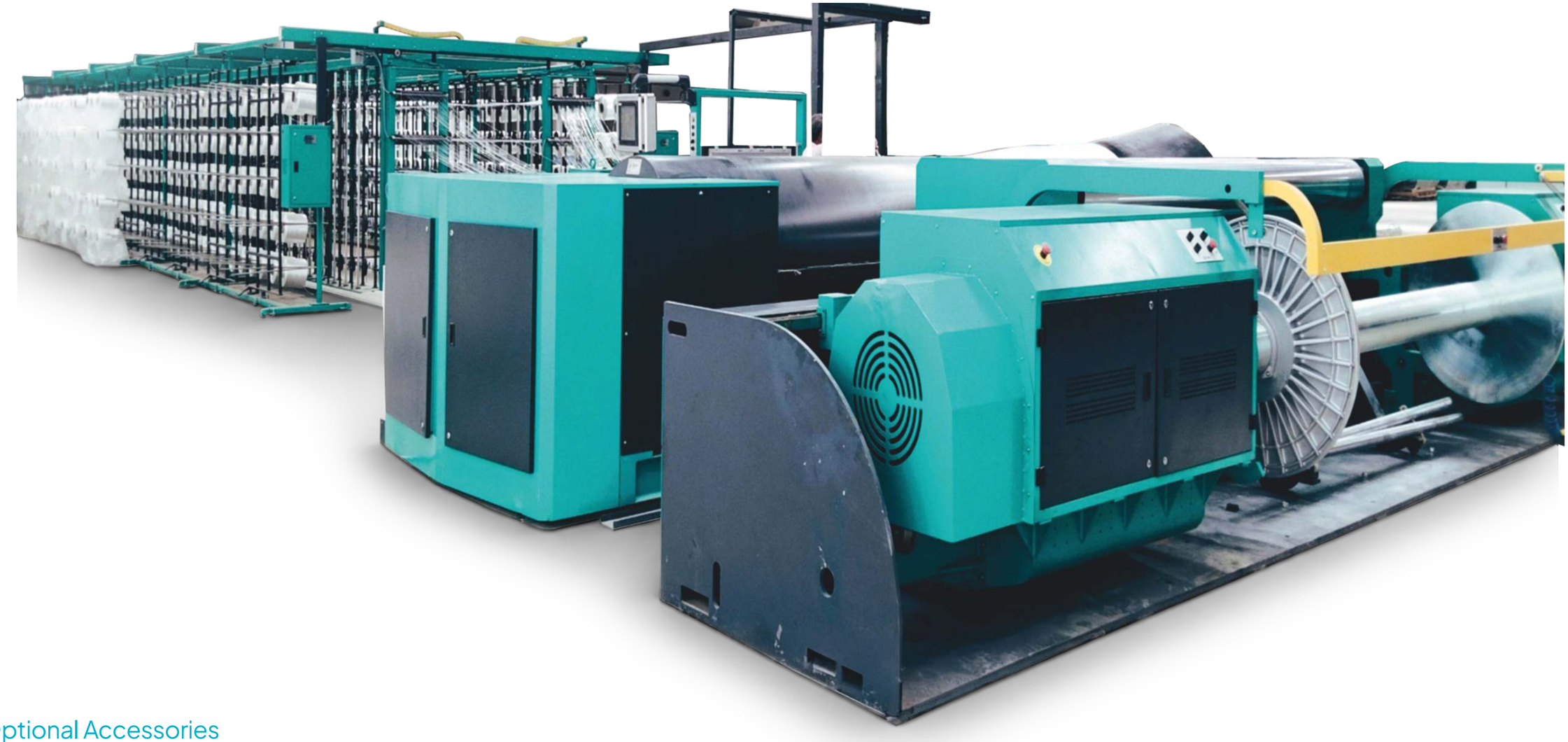
Servo Drive & Motor

- Reed table and machine traverse through AC servo drives
- To match accurate section position and center of the creel from first to last section



Tension Bridge (Optional Device)

- S Type Tension Bridge help to provide even section tension
- Easy to adjust section tension as require auto and manually



Optional Accessories



Waxing Device (Optional)

- 3 roll waxing device with SS wax tray, circulation storage tank with pump and motor
- Synchronized waxing speed
- The center SS roll is driven by a gear box and an AC motor with variable speed
- AC drive for SS guide roll



Eyelet Stand

- Reduce lateral angle between stop motion to leasing device
- Provided with ceramic eyelet

Advance Sectional Warper

Ergomatic



Features Highlights

- Laser sensor for yarn built up measurement and automatic setting of feed value
- Traverse of reed table through precise digital AC servo drive
- Reed table and feeder table traverse are controlled by precise ball screw through linear guides
- Easily accessible warping switch board
- Feeder roller (kick back type) for compact warp beam with individual digital AC servo drive
- Closest yarn deliver to drum for avoiding cross over ends
- Energy efficient powerful disc brake with accumulator
- Fully PLC controlled
- Safety provision for warping and beaming
- Inbuilt printer for processed data sheet
- On line actual length measurement
- Reverse rotation of drum for easy/ quick lease pattern
- Colour touch screen (HMI)
- 3 Axis servo controlled
- Automatic section start position for X table (reed table), Y table (feeder roller), machine traverse and drum position at a time
- Constant warping line speed control
- Direct drive for warping drum and beam for efficient energy saving
- Programmable leasing device for quick and easy sheet opening with oscillation of reed during machine run
- Split frame to and fro movement
- Graphical display of all input accessories for easy trouble shooting
- Display of electronic devices parameter i.e. load / RPM of servo motor and drive
- Graphical display of all event occurrence
- End breakage data storage
- Lost end memory with precise stop during beaming
- Display of all calculated data
- Safety photo cell
- UPS for backup during power failures to protect critical data
- Advanced software for 7 split lease and cross lease
- Fault diagnosis chart
- Multi language display screen
- PLC controlled 3 axis leasing device - oscillation - split rod open close while machine stop
- Pneumatic evener roller
- 15" HMI at warping as well as beaming

Advance Sectional Warper

Ergomatic



Features Highlights

- Heavy duty separate beaming unit
- Beam arm movable on precise linear rail guide
- Anti reverse clutch for beam locking
- Direct beaming drive
- Constant beaming line speed control
- Constant beaming thread tension through servo valve
- Hydraulic donning doffing device
- Operating desk board on both RH / LH side
- Remote foot pedal for inching operation
- Programmable beam cross winding
- Laser sensor for density measurement/ linear transducer

Optional Accessories

- 3 roll digital waxing device with AC drive, motor with wax tank and pump
- Beam pressing device
- Anti static discharge unit at warping table
- Anti static discharge unit at leasing device
- GSM modem
- SCADA monitoring system
- Auto tension creel control
- Tension bridge device
- Yarn guide roll stand
- Fluff detector

Technical Features

Useful working width	1900 mm to 4400 mm
Beam flange dia	800 mm to 1250 mm
Drum circumference	3140 mm
Cone degree	7° to 13°(can be customize)
Cone length	1300 mm to 2200 mm
Section width	300 mm to 650 mm
Maximum warping speed	1000 MPM
Maximum beaming speed	200 MPM
Density measurement	Through laser sensor

Advance Sectional Warper
Ergomatic



Separate Beaming with Powerful Transmission

- Heavy duty separate beaming unit
- Heavy duty gear box with maximum transmission efficiency
- Maintenance free performance
- Beam loading/unloading with separate hydraulic unit
- Foot pedal for hand free operation in slow speed
- Motorised beamer for beam chuck / de chuck



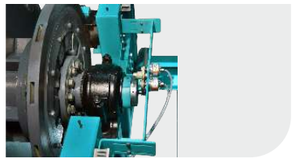
Large Colour Graphical Touch Screen Display (HMI)

- Colour touch screen (HMI)
- Graphical display of all event occurrence
- Lost end memory with precise stop during beaming
- End breakage data storage
- Advance software for 7 split lease and cross lease
- IO status for quick trouble Shooting



Servo Drive & Motor

- Reed table and machine traverse through AC servo drives
- To match accurate section position from first to last



Encoder Assembly

- To achieve precise control of line speed
- Precise length counting in warping and beaming



Advance Reed Table

- The reed table is made up of mild steel and with all movable parts running on linear guides
- Constant distance of the warp guide roll to the wound up material
- Foot pedal for hand free operation in slow speed



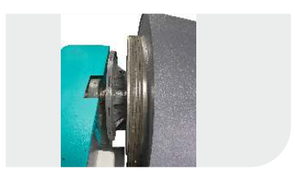
Drum Disc Brake

- Hydraulic system with effective braking system and an in built zero pressure kit
- Powerful disc brake on both side of the drum having heavy duty brake disc with self cooling design



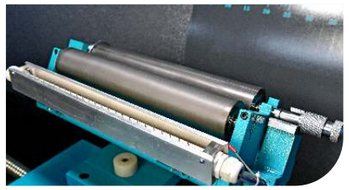
Lease Hook

- Easy to hook lease thread on drum for cross lease and seven lease



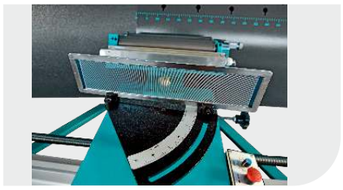
Warping Direct Drive

- Direct V belt transmission for drum drive



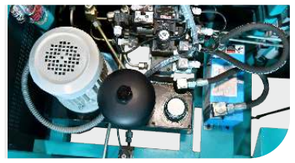
Guide Roller & Anti Static Device

- Reed table guide roll assembly for easy access of warp sheet
- High power with shock proof static eliminator
- Easy opening and quick accessibility



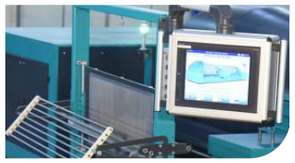
Front Flat Reed

- Suitable brackets are provided for carrying the flat warping Reed
- Easy to adjust section width manually
- To and fro movement while operation to ensure close distance



Advance Hydraulic System with Oil Coolant System

- Hydraulic system with effective braking system
- In built zero pressure kit
- Coolant system for temperature control in order to have better life of oil as well as all oil seal set
- Auto tension control while beaming
- Rapid stop by the brake when power fail



Programmable Leasing Device

- Motorized leasing device
- Pre determined top-middle-bottom position stop
- Splitting frame to and fro movement for better lease opening
- Reed oscillation to increase the life of the reed

Optional Accessories



Waxing Device

- 3 roll waxing device with SS wax tray, circulation storage tank with pump & motor
- Synchronized waxing speed
- The center SS roll is driven by a gearbox and an AC motor with variable speed
- AC drive for SS guide roll



Criya Board

- Reduce lateral angle between stop motion to leasing device
- Provided with ceramic eyelet

Fluff Detecor



Yarn Guide Roll Stand



Sectional Warper
Supermatic



Features Highlights

- Reed table traverse through AC servo drive on precise ball screw
- Closest yarn delivery to drum for avoiding misalignment of section width and cross ends, ensure the yarn is delivered as close as possible to the drum
- Easily accessible warping desk board
- Energy efficient powerful disc brake with accumulator
- Fully PLC controlled
- In built printer for processed data sheet
- 1 axis servo control system
- Constant warping line speed control
- Constant beaming line speed control
- Constant beaming tension control
- 2 axis leasing device with oscillation function
- 7" HMI for display data
- Large colour graphical touch screen display
- Automatic section start position for X table (Reed Table)
- Graphical display for easy trouble shooting and display of all process data
- Lost end memory with precise stop during beaming
- Display of all calculated data

Technical Features

Useful working width	1900 mm to 4400 mm
Beam flange dia	800 mm to 1250 mm
Drum circumference	3140 mm
Cone degree	7° to 13°(Can be customize)
Cone length	1300 mm to 2200 mm
Section width	300 mm to 650 mm
Maximum warping speed	800 MPM
Maximum beaming speed	150 MPM

Sectional Warper
Supermatic



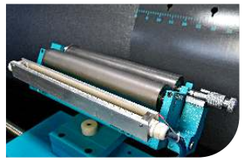
Features Highlights

- Heavy duty separate beaming unit
- Beam arm movable on rail pipe support
- Direct beam drive
- Hydraulic donning doffing device
- Operating desk board on both side
- Safety device (photo cell)
- Foot pedal for remote start stop operation
- Reverse direction locking
- Auto tension creel control

Optional Accessories

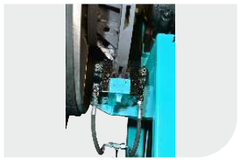
- 3 roll waxing device with AC drive, motor with wax tank and pump
- Beam pressing device
- Static eliminator for warping table and leasing device
- GSM modem for remote diagnosis
- Tension bridge device
- Programmable leasing device
- Radial table (Y table) servo controlled evener roller
- Eyelet board with stand
- Flutted roller
- Oiling Device with 1000mm roll and stand

Sectional Warper
Supermatic



Guide roller & Anti Static Device

- Reed table guide roll assembly for noiseless and long life performance
- High power with shock proof static eliminator (optional)
- Easy opening and quick accessibility
- Slit on guide roller to maintain section width



Drum Disc Brake

- A powerful disc brake is on both sides of the drum, with imported brake liners, heavy duty brake discs and a self cooling design
- Energy efficient powerful disc brake with accumulator
- Fully PLC controlled



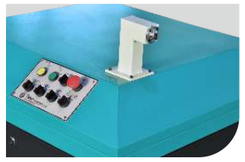
Separate Beaming with Powerful Transmission

- Heavy duty separate beaming unit
- Heavy duty gear box with maximum transmission efficiency
- Maintenance free performance
- Motorised beamer for beam chuck / de chuck
- Beam loading unloading with hydraulic



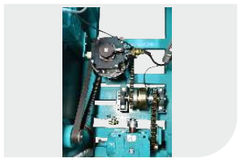
Advance Hydraulic System with Oil Coolant System

- Power pack with effective braking system and an in built zero pressure kit
- Coolant system for temperature control in order to have better life of oil as well as all oil seal set
- Optional auto tension control while beaming
- Rapid stop by the brake when power fail



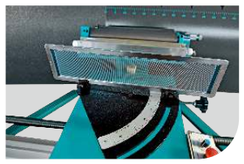
Safety Device

- Photo electrical safety device
- Operating desk board on both side with emergency switch



Servo Drive & Motor

- Reed table and machine traverse through AC servo drive
- To match accurate section position from first to last



Front Flat Reed

- Suitable brackets are provided for carrying the flat reed / V Shaped warping reed
- Easy to adjust section width manually



Printer

- Inbuilt printer for all processed data sheet
- End breakage history record warp and operator details with date and time



Advance Reed Table

- The reed table is made up of mild steel and with all movable parts running on precision bearings
- Constant distance of the warp guide roll to the wound up material
- Foot pedal for free hand operation in slow speed
- Automatic movement by high precision ball screw with AC servo



Large Colour Graphical Touch Screen Display (HMI)

- Easy access of all function key
- Visualization of all stoppages operation guide in graphics
- End breakage history record
- 10 status for quick trouble shooting



Lease Hook

- Easy to hook lease thread on drum for cross lease and seven lease with equal distance



Warping Drum Drive

- Direct V belt drive to drum
- Reduce power consumption and noise level



Encoder Assembly

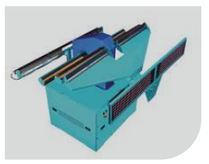
- To achieve precise control of line speed
- Precise length counting in warping and beaming



Leasing Device

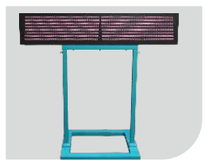
- Stationary unit division of the yarn sheet in accordance with the creel as guides at separate levels
- Motorized operation of leasing device having a vertical movement

Optional Accessories



Tension Bridge Device

- Heavy duty motorized guide roll with comb assembly and criya board
- Auto line speed control with proportional tension online correction



Eyelet Board

- Reduce lateral angle between stop motion to leasing device
- Provided with ceramic



Waxing Device

- Rigid waxing device assembly with heavy duty MS hard chrome plated guide Roll and SS waxing roll with motorized speed control by AC drive
- Speed control using an AC drive to maintain a constant layer.

Sectional Warper

Supermatic I



Features Highlights

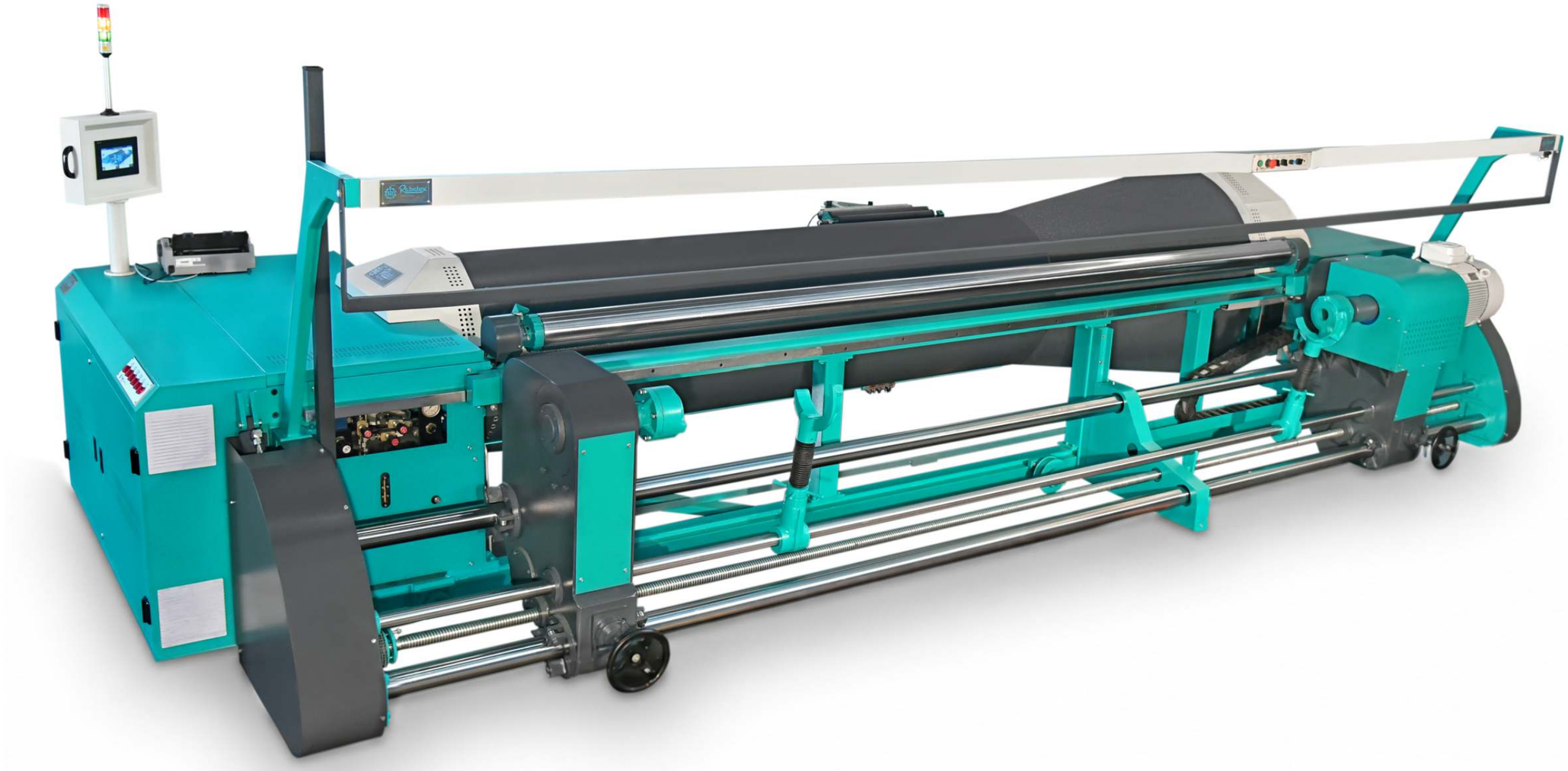
- Reed table traverse through AC servo drive on precise ball screw
- Closest yarn delivery to drum for avoiding misalignment of section width and cross ends
- Easily accessible warping desk board
- Energy efficient powerful disc brake with accumulator
- Completely PLC controlled
- Inbuilt printer for process data sheet
- Display of all calculated data
- Large colour graphical touch screen display (HMI)
- Automatic section start position for X table (reed table)
- Graphical display for easy trouble shooting and display of all process
- End breakage data storage
- Lost end memory with precise stop during beaming
- Programmable beam cross winding

Technical Features

Useful working width	1900 mm to 4400 mm
Beam flange dia	800 mm to 1000 mm
Drum circumference	2500 mm
Cone degree	7° to 13°(can be customize)
Cone length	1300 mm to 1700 mm
Section width	300 mm to 650 mm
Maximum warping speed	600 MPM
Maximum beaming speed	100 MPM

Sectional Warper

Supermatic I

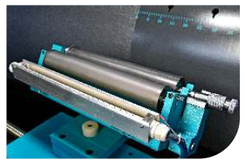


Features Highlights

- Heavy duty integral beaming unit
- Beam arm movable on heavy duty pipe support
- Beam oscillation for cross winding
- Hydraulic donning doffing device
- Operating desk board
- Safety device
- Foot pedal to remote start/stop
- 1 axis servo control system
- Constant warping line speed control
- Constant beaming line speed control
- Constant beaming tension control
- 2 axis leasing device with oscillation function
- Direct drive for beaming
- 7" HMI for display data

Optional Accessories

- 3 roll waxing device with AC drive
- Beam pressing device
- Static eliminator on warping table
- Static eliminator on leasing device
- GSM modem for remote diagnosis
- Auto tension creel control
- Programmable leasing device
- Radial servo evener roll
- Oiling device with 1000mm roll and stand
- Flutted roller
- Beaming anti rotation clutch
- Eyelet board with stand



Guide roller & Anti- Static Device

- Reed table guide roll assembly for noiseless and long life performance
- High power with shock proof static eliminator (optional)
- Easy opening and quick accessibility
- Slit on guide roller to maintain section width



Drum Disc Brake

- Powerful disc brake on both side of the drum with imported brake liner with having heavy duty brake disc with self cooling design
- Energy efficient powerful disc brake with accumulator
- Fully PLC controlled



Printer

- Inbuilt printer for all processed data sheet
- End breakage history record warp and operator details with date and time



Machine Safety

- Safety bar provided in beaming for emergency stop



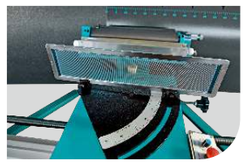
Advance Hydraulic System with Oil Coolant System

- Power pack with effective braking system and an In built zero pressure kit
- Coolant system for temperature control in order to have better life of oil as well as all oil seal set
- Optional auto tension control while beaming



Large Colour Graphical Touch Screen Display (HMI)

- Easy access of all function key
- Visulization of all stoppages operation guide in graphics
- End breakage history record



Front Flat Reed

- Suitable brackets are provided for carrying the flat reed/ V Shaped warping reed
- Easy to adjust section width manually



Lease Hook

- Easy to hook Lease thread on drum for cross lease and seven lease with equal distance



Advance Reed Table

- The reed table is made up of mild steel and with all movable parts running on precision bearings
- Constant distance of the warp guide roll to the wound up material
- Locking arrangement with manual sliding by hand wheel
- Foot pedal for free hand operate in slow speed
- Automatic movement by high precision ball screw with AC servo



Encoder Assembly

- To achieve precise control of line speed
- Precise length counting in warping and beaming



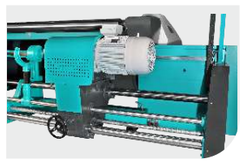
Leasing Device

- Stationary unit division of the yarn sheet in accordance with the creel as guides at separate levels



Warping Drum Drive

- Reduce power consumption and noise level



Advance Beaming with Powerful Transmission

- Gear box with maximum transmission efficiency
- Maintenance free performance



Servo Drive & Motor

- Reed table and machine traverse through AC servo drive
- To match accurate section position from first to last

Optional Accessories



Waxing Device

- Rigid waxing device assembly with heavy duty MS hard chrome plated guide roll and SS waxing roll with motorized speed control by AC drive



Eyelet Board

- Reduce lateral angle between stop motion to leasing device

Sectional Warper
Ecomatic



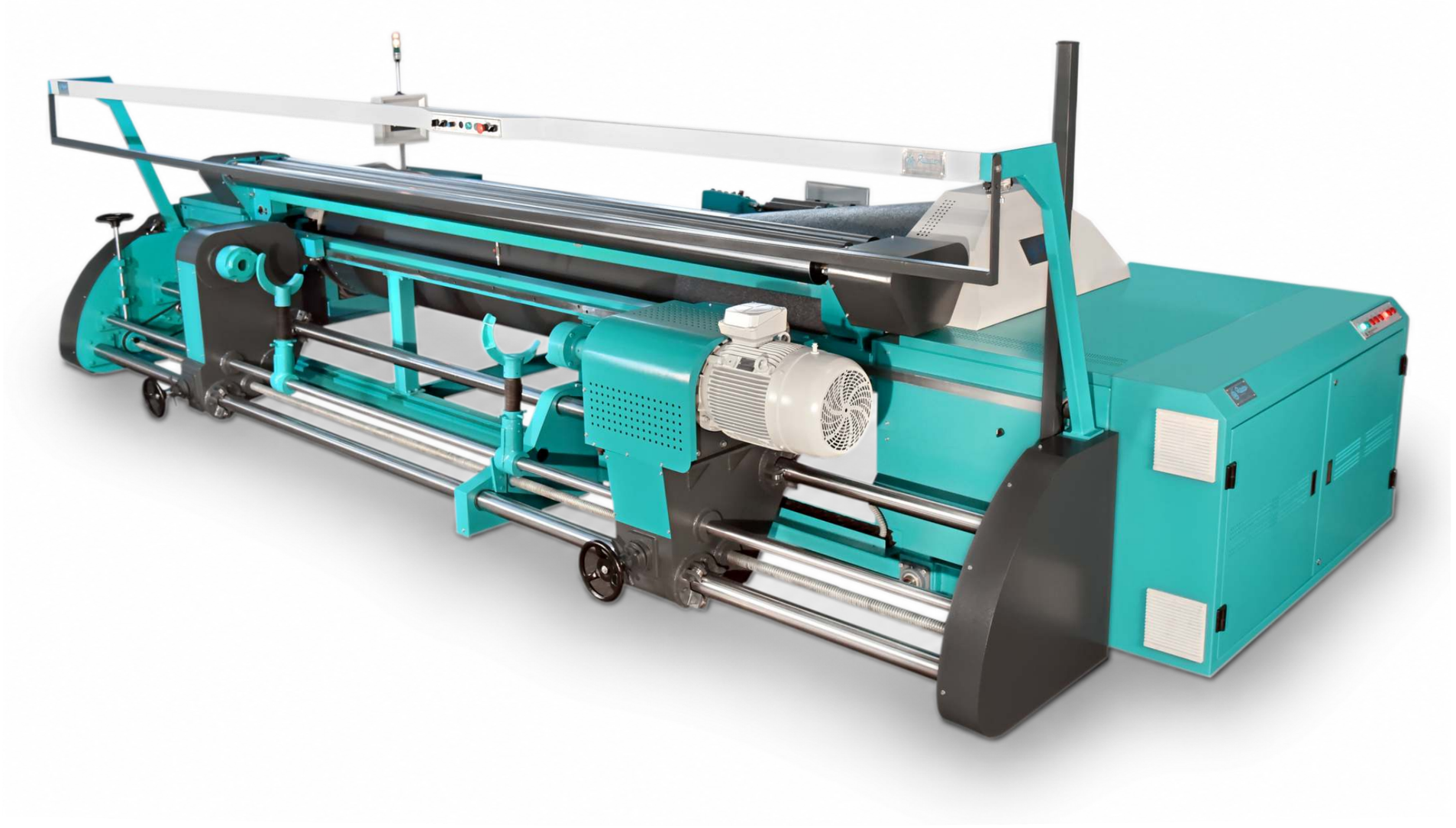
Features Highlights

- Solid metallic drums with fixed cone
- Precise length accuracy through encoder and controller
- AC inverter drive
- Powerful disc brake
- AC drive for both separate warping/ beaming motor
- Attached beaming with robust structure
- UPS back up for data restore
- Constant warping line speed control
- Constant beaming line speed control
- Direct drive for beaming
- Direct warping drum drive through V Belt
- Direct beaming drive through planetary gear box
- 7" touch screen HMI for all process data
- Reed table guide roll assembly for noiseless performance
- Advanced PLC controller with inbuilt analog module
- Precise broken end memory
- Compact control panel for easy trouble shooting

Technical Features

Useful working width	1900 mm to 4400 mm
Beam flange dia	800 mm to 1000 mm
Drum circumference	2500 mm
Cone degree	7° to 13°(Can be customize)
Cone length	1300 mm to 1700 mm
Section width	300 mm to 650 mm
Maximum warping speed	600 MPM
Maximum beaming speed	100 MPM

Sectional Warper
Ecomatic



Features Highlights

- Auto stop counter meter
- Hydraulic disc brake and beam donning doffing
- Machine traverse on rail for constant lateral angle
- Constant warping line speed control
- Constant beaming line speed control
- Emergency brake for power fail
- Emergency stop provided on warping & beaming desk board
- Safety bar provided in beaming for emergency stop
- Power full disc brake assembly with dual cylinder
- Online trouble shooting
- Compact safety device
- Hydraulic power pack unit with advanced engineering and inbuilt cooling system
- Advanced electronic/ electrical control systems.
- Lease tie hook on drum
- Provide foot pedal switch for the easy lease insertion

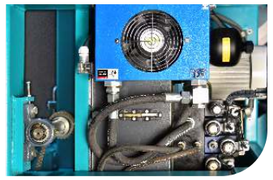
Optional Accessories

- 3 roll waxing device with AC drive
- Beam pressing device
- Static eliminator on warping table
- Static eliminator on leasing device
- Eyelet board with stand
- Flutted roller
- Oiling device with 1000mm roll and stand
- Beaming anti rotation clutch



Drum Disc Brake

- To ensure gentle but extremely effective stopping of the drum
- Powerful disc brake on both side of the drum with imported brake liner with having heavy duty brake disc with self cooling design



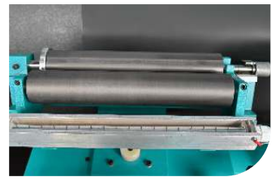
Advance Reed Table

- The Reed Table is made up of mild steel and with all movable parts running on precision bearings
- Constant distance of the warp guide roll to the wound up material
- Locking arrangement with manual sliding by hand wheel



Advance Power Pack with Oil Coolant System

- Power pack with effective braking system and an in built zero pressure kit
- Coolant system for temperature control in order to have better life of oil as well as all oil seal sets



Guide Roller & Anti- Static Device

- Reed table guide roll assembly for noise less & long life performance
- Shock proof static eliminator (optional)
- Easy opening and quick accessibility



Leasing Device

- Stationary unit division of the yarn sheet in accordance with the creel as guides at separate levels
- Motorized operation of leasing device having a vertical movement top-middle-bottom



7" Touch Screen HMI

- Easy access of all function key
- Visualization of all stoppages operation guide in graphics
- End breakage history record
- 10 status for quick trouble shooting



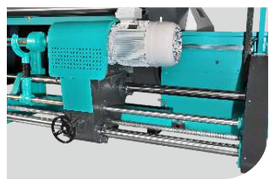
Lease Hook

- Easy to hook Lease thread on drum for cross lease and seven lease with equal sequence



Encoder Assembly

- To achieve precise control of line speed
- Precise length counting in warping and beaming



Advance Beaming with Powerful Transmission

- Gear box with maximum transmission efficiency
- Maintenance free performance



Front Flat Reed

- Suitable brackets are provided for carrying the flat reed/ V shaped warping reed
- Easy to adjust section width manually

Optional Accessories



Eyelet Board

- Reduce lateral angle between stop motion to leasing device



Waxing Device

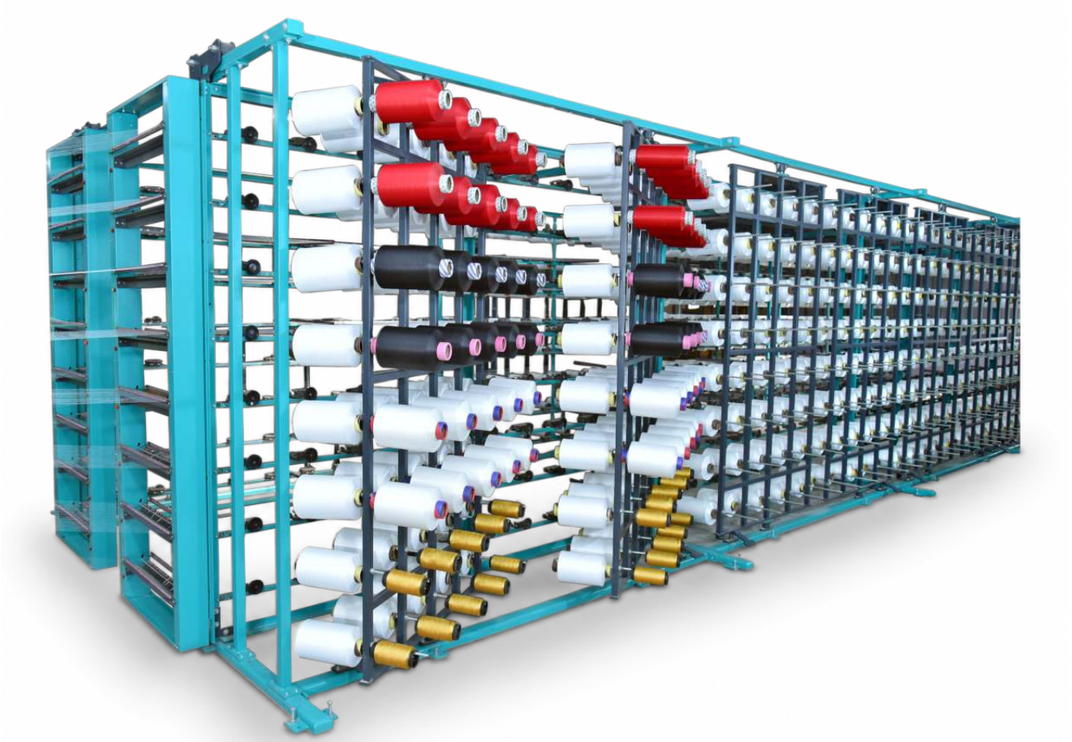
- Rigid waxing device assembly with heavy duty MS hard chrome plated guide roll and SS waxing roll with motorized speed control by AC drive



Warping Drum Drive

- To achieve precise control of line speed
- Precise length counting in warping and beaming

Cone Creel
Swivel Frame Type



Features Highlights

- MS tube fabricated structure
- Manually withdrawable tensioner frame
- Thread draw off outside to inside
- Stop motion with row wise indication

Optional Accessories

- Static eliminator on stop motion

Technical Features

Standard pitch	280 mm (vertical/horizontal)
Standard ends	320/400/480/560/640/720/
	800/ 880/960/1200 ends
Standard vertical deck	8 (optional deck :5/6/7/8/10/12)
Cone holder	Spindle swivel type
Pitch on request	200 mm/280 mm/300 mm/350 mm
Tensioner type	Ratchet type/Tiana type
Stop motion	Optical type
Eyelet	Ceramic eyelet (closer/open type)
Reserve package holder	Same as per creel capacity



TIANA type or pillar type thread tensioner



Ratchet type thread tensioner



Tensioners & Guide



Stop Motion Sensor & Dropper Pin

Tensioner (Centrally Adjustable)

Spring Loaded Disc Tensioner

Tensioner
Spring loaded disc tensioner

Tensioner Control
Motorised operated rack to control tensioner

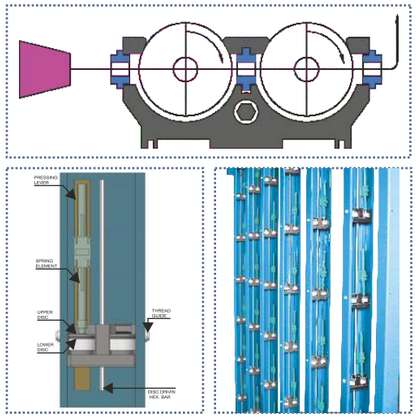
Tension Disc Rotation
Continuous disc rotation through pinion and motor

Air Nozzles
Individual air nozzle to remove fluff from tensioner

Thread Path
Straight thread path for easy threading

Stop Motion
Optical stop motion with row wise indication

(A) Spring Loaded Tensioner



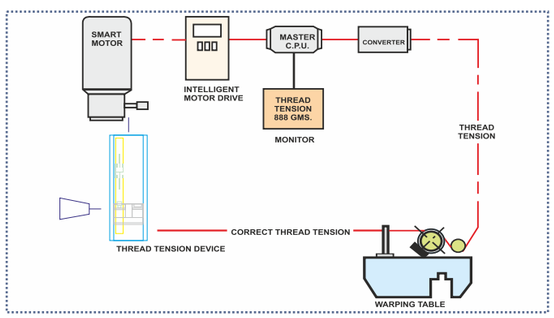
(B) Warp Deflection Tensioner



This system is used for adjustment of tension suitable for a wide range of yarns.

Synchronisation of Tensioner Control

Close loop control with load cell mounted on warping reed table unit (measurement) as well as with data entry of required tension (requirement) monitored and control by PLC.



Cone Creel

Parallel H Type (Trolley)



Features Highlights

- MS tube fabricated structure
- Manually withdrawable tensioner frame
- Thread draw off outside to inside

Optional Accessories

- Individual tensioner with individual sensor (imported)
- Over head travelling cleaner
- Individual air nozzles
- Static eliminator on creel stop motion



KFD type tensioner

Technical Features

Standard pitch	280 mm (vertical/horizontal)
Standard ends	320/400/480/560/640/720/ 800/ 880/960/1200 ends
Standard vertical deck	8 (Optional deck :5/6/7/8/10/12)
Cone holder	Spindle in trolley form
Pitch on request	200 mm/280 mm/300 mm/350 mm
Tensioner type	Centrally adjustable
Stop motion	Optical type
Eyelet	Ceramic eyelet (closer/open type)
Reserve package holder	Spare trolley provided

Stop Motion

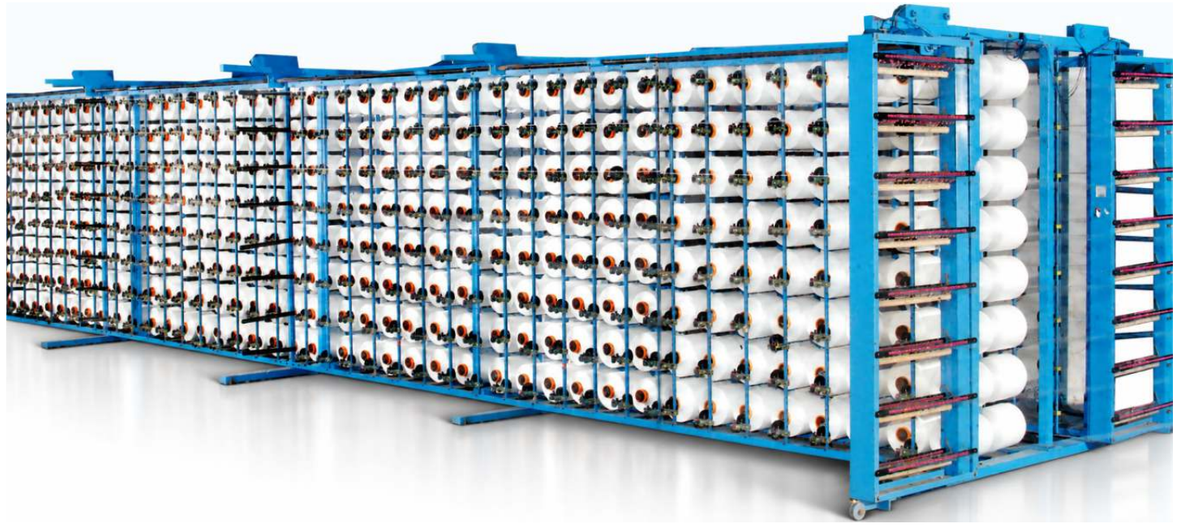
- Optical stop motion with row wise indication

Precision Tension Unit for Uniform Yarn Tension

The crucial element of any creel is the yarn tension unit, all the thread tension units can be centrally adjusted either manually or motorized. Various thread tension devices available for different applications and based on various models of cone creels.

Cone Creel

Parallel H Type (Fix)



Features Highlights

- MS tube fabricated structure
- Manually withdrawable Tensioner frame
- Thread draw off: outside to inside

Optional Accessories

- Over head cleaner



Ratchet type thread tensioner

Technical Features

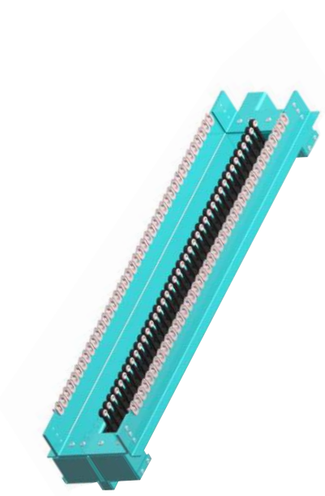
Standard pitch	280 mm (vertical/horizontal)
Standard ends	320/400/480/560/640/720/ 800/ 880/960/1200 ends
Standard vertical deck	8 (Optional deck :5/6/7/8/10/12)
Cone holder	Spindle fixed type
Pitch on request	200 mm/280 mm/300 mm/350 mm
Tensioner type	Ratchet type/Tiana type
Stop motion	Optical type
Eyelet	Ceramic eyelet (closer/open type)

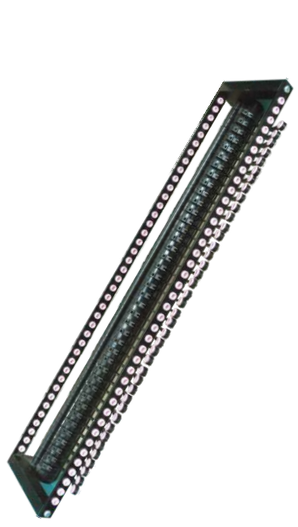
Accessories



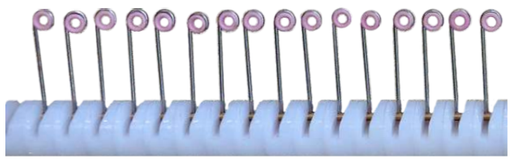
Static Eliminator

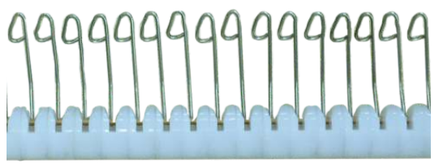






Stop Motion (Optical)





Stop Motion (Dropper Type)

Tensioners

For Different Yarn Type



Rabatex Centrally Adjustable Tensioner



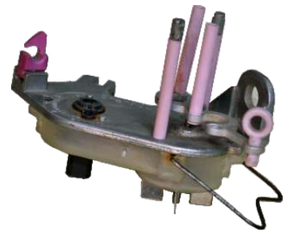
Ratchet Tensioner



Tiana Tensioner



Centrally Spring Loaded Tensioner

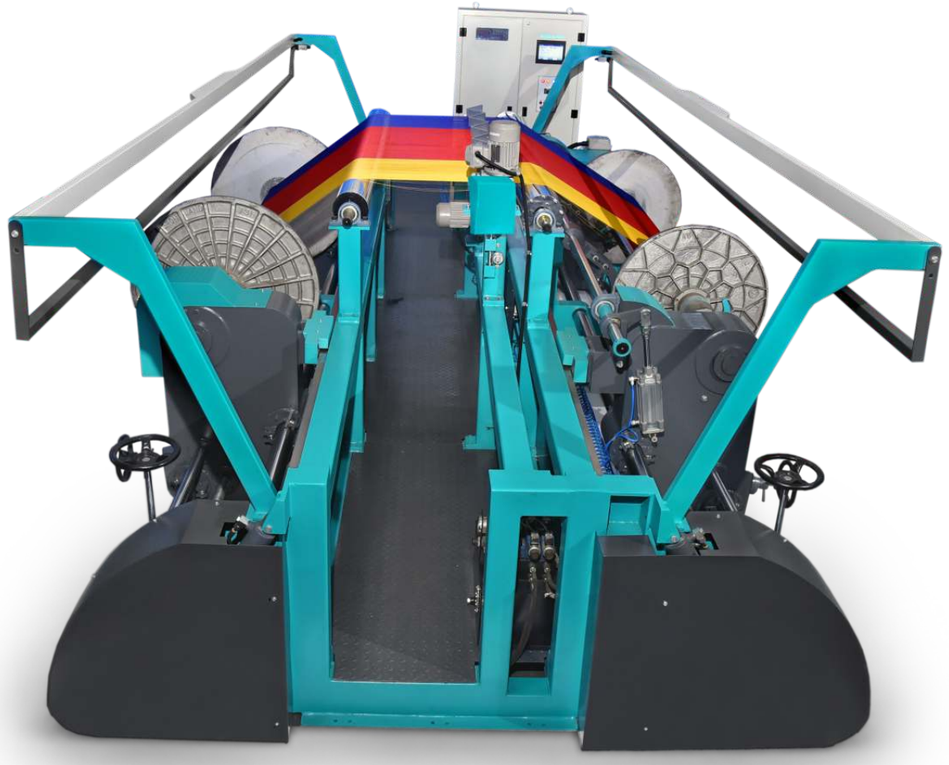


Jumbo Oil Dumping Centrally KFD Tensioner



Oil Dumping Centrally KFD Tensioner

Beam To Beam
Rewinder



Features Highlights

- Heavy duty fixed beaming structure on both side
- Precise length accuracy
- PLC controlled
- AC Inverter drive
- Powerful disc brake
- AC drive for beaming motor
- UPS back up for data restore
- Direct beaming drive through heavy duty gear box
- Adjustable beam arm on both side
- 10" touch screen HMI for all process data
- Control panel for easy trouble shooting
- Advanced PLC controlled with inbuilt analog module

Technical Features

Useful working width	1900 mm to 4400 mm
Beam flange dia	800 mm to 1250 mm
Maximum speed	100 MPM (higher for request)
Warp width adjustment	Through comb V reed
Donning Doffing	Hydraulically operated
Take up unit driven by	AC motor through AC drive
Let off unit control	By pneumatic disc brake

Beam To Beam
Rewinder

Features Highlights

- Auto stop counter meter
- Constant beaming line speed
- Emergency brake on power fail
- Online trouble shooting
- Compact safety device
- Emergency stop provided on beaming desk board
- Safety bar provided in beaming for emergency stop
- Advanced electronic/ electrical control system

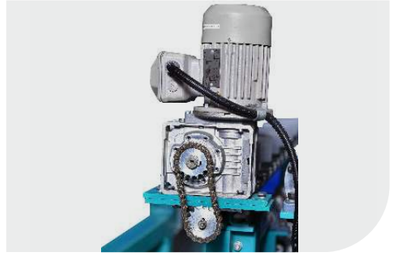


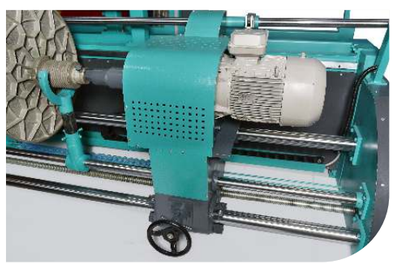
Warp Sheet Oscillation through Comb

Zig Zag comb assembly having traverse for vertical movement as well as for horizontal movement to avoid abrasion of the warp with dent as well as improve life of the comb assembly

Expansion Comb for Adjustment

Zig Zag comb provided which is operated by separate AC motor and gear box for warp

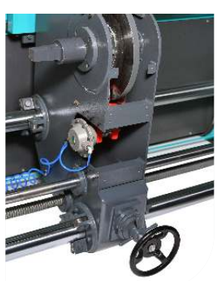




Advance Beam Winder with Powerful Transmission

- Gear box with maximum transmission efficiency
- Maintenance free performance
- Reduce power consumption and noise level

Unwinder Braking Assembly



Control Panel

Enclose control panel with power control and a touch screen HMI interface for all operations



Optional Features



Waxing Device

- Waxing device assembly with heavy duty mild steel hard chrome plated guide rolls, one stainless steel wax roll and motorized speed control via AC drive.
- The AC drive ensures constant speed control of the wax circulating tank and pump

Flutter Roller

Precisely made for spreading the warp sheet uniformly without the contact of roller





Beam Pressing Device

Beam pressing used to maintain the tension and help to wound the warp sheet



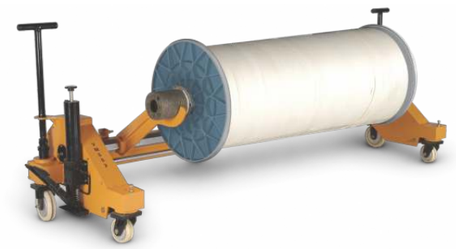
Empty Beam Trolley A

Application Features

Trolley is designed for lifting and transporting of empty beams. Lifting and lowering movements take place from the floor, small construction type, easy steering and adjustable for different diameters of beam flanges.

Technical Features

Maximum Beam Weight Capacity	200 to 500 Kgs
Maximum Beam Flange Dia	800/1000/1100/1250/1400 mm
Maximum Barrel Dia	150 to 365 mm
Maximum Barrel Length	1800 to 4000 mm



Warp Beam Trolley

Application Features

Trolley is designed for lifting and transporting of warp beam of different length and weight. Lifting and lowering movements take place from the ground floor, so that the beam can be fitted on the weaving machine very conveniently.

Technical Features

Maximum Beam Weight Capacity	1000 to 4000 Kgs
Maximum Beam Flange Dia	800/1000/1100/1250/1400 mm
Maximum Barrel Dia	150 to 365 mm
Maximum Barrel Length	1800 to 6500 mm

Empty Beam Trolley B

Application Features

Compact trolley is designed for lifting and transporting of empty beams. Lifting and lowering take place from the floor, compact design for moving beam from smallest possible area. Beam barrel is locked while transporting the empty beam.

Technical Features

Maximum Beam Weight Capacity	200 to 500 Kgs
Maximum Beam Flange Dia	800/1000/1100/1250/1400 mm
Maximum Barrel Dia	150 to 365 mm
Maximum Barrel Length	1800 to 4000 mm

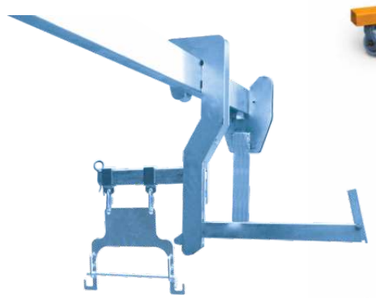




Drawn Beam Parking Trolley

Application Features

Specially designed for automatic drawing in machine and drawn beam parking.









Cloth Roll Trolley (Cradle Type)

Application Features

Cloth Roll Doffing Carrier (Cradle Type) is designed for lifting and transporting the big batch (cloth roll) from batching motion/off loom's take up. Lifting of cloth roll is done by rigid cradle top from batching motion very easily. This equipment can easily handle bigger diameter fabric roll and conveniently place them to the floor. It has robust construction, flawless functionality and longer operational life.

Technical Features

Maximum Cloth Roll Weight	1000 to 4000 Kgs
Maximum Cloth Roll Dia	800 to 1500 mm
Maximum Cloth Roll Length	1500 to 4400 mm



Warp Beam Trolley with Heald Frame Lifting



Application Features

Trolley is designed for lifting and transporting of drawn warp beam in connection with the harness carrier and drop wire carrier of different length and weight. Lifting and lowering movements take place from the ground floor, so that the beam can be fitted on the weaving machine very conveniently. Harness holder and drop wire holder provided with carrier.

Technical Features

Maximum Beam Weight Capacity	1000 to 4000 Kgs
Maximum Beam Flange Dia	800/1000/1100/1250/1400 mm
Maximum Barrel Dia	150 to 365 mm
Maximum Barrel Length	1800 to 4400 mm
Maximum Weight Capacity	250 to 400 Kgs

Twin Warp Beam Trolley with or without Heald Frame Support

Application Features

Trolley is designed for lifting and transporting of drawn double (Twin) warp beam in connection with the harness carrier and drop wire carrier of different length and weight. Lifting and lowering movements take place from the ground floor, so that the beam can be fitted on the weaving machine very conveniently. Harness holder and drop wire holder provided with carrier.

Technical Features

Maximum Beam Weight Capacity	1000 to 4000 Kgs
Maximum Beam Flange Dia	800/1000/1100/1250/1400 mm
Maximum Barrel Dia	150 to 365 mm
Maximum Barrel Length	1800 to 4400 mm
Harness Weight Capacity	250 to 400 Kgs



Cloth Roll Trolley

Application Features

Trolley having compact design for lifting and transporting a cloth roll in narrow passageways. Cloth roll cradle can be lowered up to the ground floor. Cloth roll ready on weaving machine can be directly lifted and transported. Suitable for on loom cloth roll handling and transport.

Technical Features

Maximum Cloth Roll Weight	300 to 500 Kgs
Maximum Cloth Roll Dia	250 to 700 mm
Maximum Cloth Roll Length	1500 to 3600 mm



Beam Pallet Trolley

Application Features

Trolley is designed for lifting and transporting of warp beam of different length and weight. Lifting and lowering movements take place from the ground floor.



Technical Features

Maximum Weight Capacity	1000 to 4000 Kgs
Maximum Beam Flange Dia	800/1000/1100/1250/1400 mm
Maximum Fork Length	1800 to 4400 mm

Cloth Roll Stacker Trolley

Application Features

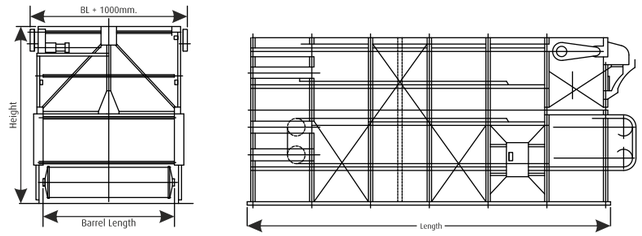
To store Cloth Roll in Trolley Stacker and transport the same at the desired location for maximum ground space utilization and to avoid damage of ready fabrics. As well as equipment can be also kept back side of inspection machine for easy and quick fabric inspection directly from cloth roll stocker trolley.

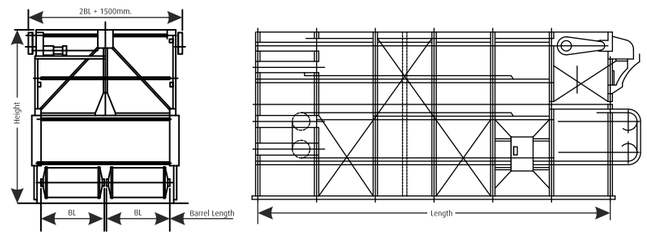
Technical Features

Maximum Cloth Roll Weight	200 to 500 Kgs
Maximum Cloth Roll Dia	250 to 700 mm
Maximum Cloth Roll Length	1500 to 3600 mm
Total No. of Cloth Roll	6/8









Beam Stacker

Application Features

To store the empty or full beam in 4 tier motorized beam stacker to maximum ground space utilization and proper storage of beams. Beams can be stored with the help of various data like beam no/mill code/wrap design no and etc. With same address or identification beams can be brought at doffing position for use in weaving shed.

Technical Features

Maximum Beam Weight Capacity	750 to 3500 Kgs / Per Beam
Maximum Beam Flange Dia	800/1000/1100/1250/1400 mm
Maximum Barrel Dia	110 to 350 mm
Maximum Barrel Length	2000 to 6500 mm
Option for Beam Hanging	1 or 2 Beam per Position
No. of Tier	2 or 4

Single Beam		Height-MM		Length-MM	
No. of. Beam		Ø800	Ø1000	Ø800	Ø1000
A	24	4560	5500	6600	7800
B	36	4560	5500	9900	11700
C	48	4560	5500	13200	15600
D	60	4560	5500	16500	19500

Twin Beam		Height-MM		Length-MM	
No. of. Beam		Ø800	Ø1000	Ø800	Ø1000
A	48	4560	5500	6600	7800
B	64	4560	5500	8800	10400
C	72	4560	5500	9900	11700
D	96	4560	5500	13200	15600





Electric Operated Warp Beam Trolley With Heald Frame Support (Beam Gaiting Trolley)



Adapt for rapid article changing by warp change beam transport and positioning at looms.

Features Highlights

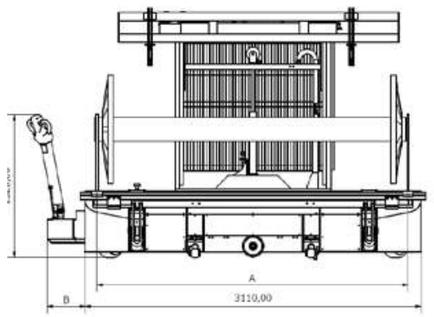
- Remote control battery charger
- Hydraulic beam translation: ±75 mm
- Hydraulic harness mounting on two axes
- Harness mounting mechanic translation ±75 mm
- 24V/60A battery charger

Optional

- Gel battery 24V /240Ah
- Trolley for battery changing
- TUV Certificate remote control for driving and hydraulic functions

Technical Features

Maximum Beam Weight Capacity	1000 to 2000 Kgs
Maximum Beam Flange Dia	800 to 1100 mm
Maximum Barrel Dia	150 to 365 mm
Maximum Barrel Length	1800 to 4400 mm
Harness Weight Capacity	250 to 400 Kgs



Electric Operated Warp Beam Trolley



Adapt to transport full or empty beams and it positioning at looms.

Features Highlights

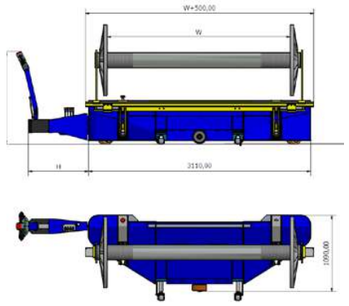
- Remote control battery charger
- Hydraulic beam translation: ±75 mm
- Hydraulic harness mounting on two axes
- Harness mounting mechanic translation ±75 mm
- 24V/60A battery charger

Optional

- Gel battery 24V /240Ah
- Trolley for battery changing
- TUV Certificate remote control for driving and hydraulic functions

Technical Features

Maximum Beam Weight Capacity		1000 to 2000 Kgs
Maximum Beam Flange Dia		800 to 1100 mm
Maximum Barrel Dia		150 to 365 mm
Maximum Barrel Length	:	1800 to 4400 mm







Electric Operated Cloth Roll Trolley

Adapt to transport twin beams or rolls in particular when is not possible lifting by central tube.

Features Highlights

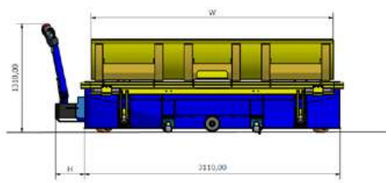
- Remote control battery charger
- Hydraulic beam translation: ±75 mm
- Hydraulic harness mounting on two axes
- Harness mounting mechanic translation ±75 mm
- 24V/60A battery charger

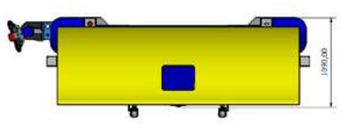
Optional

- Gel battery 24V /240Ah
- Trolley for battery changing
- TUV Certificate remote control for driving and hydraulic functions

Technical Features

Maximum Cloth Roll Weight Capacity	1000 to 2000 Kgs
Maximum Cloth Roll Dia	800 to 1500 mm
Maximum Cloth Roll Length	1800 to 4400 mm









Electric Operated Top (Pile) Beam Trolley

Adapt to position upper and lower beams on looms.

Features Highlights

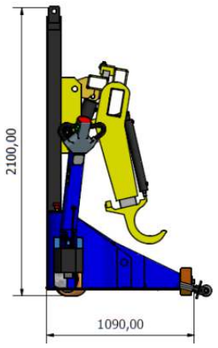
- Remote control battery charger
- Hydraulic forks extension: 350 mm
- Hydraulic beam translation: ±75 mm
- Hydraulic harness mounting on two axes
- Harness mounting mechanic translation ±75 mm
- 24V/60A battery charger

Optional

- Gel battery 24V /240Ah
- Trolley for battery changing
- TUV Certificate remote control for driving and hydraulic functions

Technical Features

Maximum Beam Weight Capacity	1000 to 2000 Kgs
Maximum Beam Flange Dia	800 to 1250 mm
Maximum Barrel Dia	150 to 365 mm
Maximum Barrel Length	1800 to 4400 mm





Electric Operated Top (Pile) and Bottom Beam Trolley

Adapt to position upper and lower beams on looms.

Features Highlights

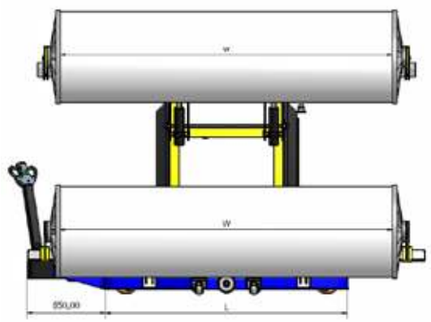
- Remote control battery charger
- Hydraulic forks extension: 350 mm
- Hydraulic beam translation: ±75 mm
- Hydraulic harness mounting on two axes
- Harness mounting mechanic translation ±75 mm
- 24V/60A battery charger

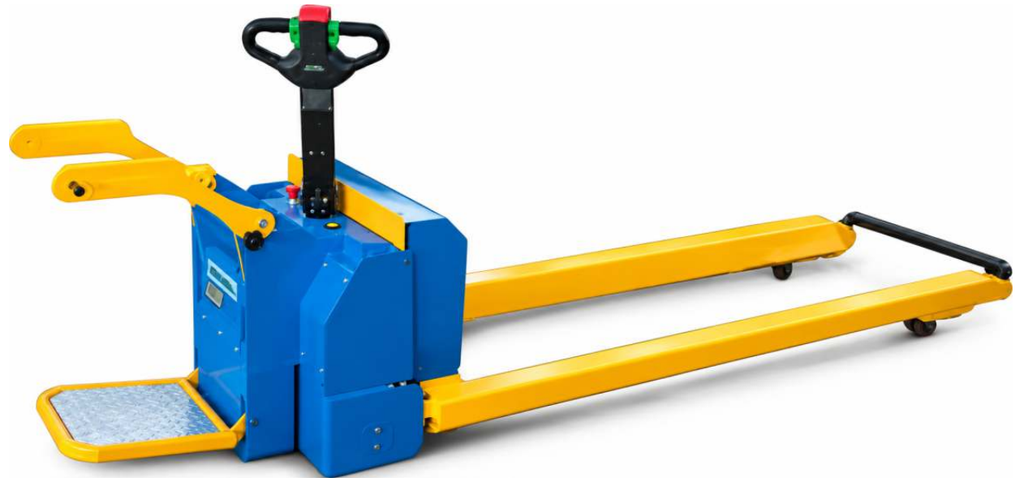
Optional

- Gel battery 24V /240Ah
- Trolley for battery changing
- TUV Certificate remote control for driving and hydraulic functions

Technical Features

Top Beam	
Maximum Beam Weight Capacity	1000 to 2500 Kgs
Maximum Beam Flange Dia	800 to 1100 mm
Maximum Barrel Dia	150 to 365 mm
Maximum Barrel Length	1800 to 4400 mm
Top Beam	
Maximum Beam Weight Capacity	1000 to 2500 Kgs
Maximum Beam Flange Dia	800 to 1100 mm
Maximum Barrel Dia	150 to 365 mm
Maximum Barrel Length	1800 to 4400 mm





Electric Operated Pallet Beam Trolley

Hand operated trolley for transport full or empty beam.

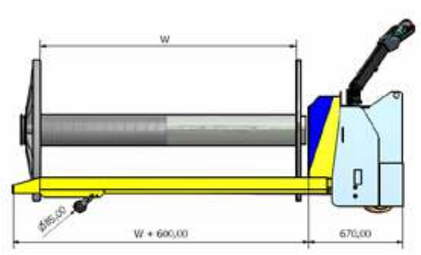


Features Highlights

- 24V/60A battery charger

Optional

- Gel battery 24V /210Ah
- Trolley for battery changing
- Operator retractable stand



Technical Features

Maximum Beam Weight Capacity	1000 to 2500 Kgs
Maximum Beam Flange Dia	800 to 1500 mm
Maximum Barrel Dia	150 to 365 mm
Maximum Barrel Length	1800 to 4400 mm



Poly Beamer With Unwinding Creel
Polymatic



Features Highlights



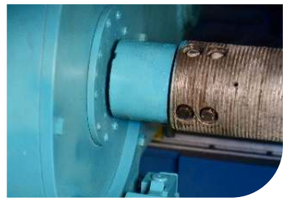
Expansion Comb for Width Adjustment

Zig Zag comb provided which is operated by separate AC motor and gear box for warp width adjustment. Expansion and compression is obtained by cam switch. Complete assembly shifting is also abstained by cam switch either LH or RH side to align warp width with beam.



Control and Automation

Large display of 10" HMI touch screen with colour graphics provides user friendly access and operation. Display of process data on line as well as setting parameter control like speed / tension / length etc. In built printer to print process data of Beam produced for department record and information.



Motorised Beam Arm

To adjust the variable distance between flange , the beam mounting are adjustable by AC motor and gear box through torque limiting system for the safety of motor.



Warp Sheet Oscillation Through Comb

Zig zag comb assembly having traverse for vertical movement as well as for horizontal movement to avoid abrasion of the warp with dent as well as to improve proper warp sheet build up on beam.

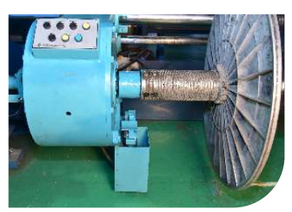
Technical Features

Working width	1800 mm to 6000 mm
Barrel length	2100 mm to 6300 mm
Beam flange dia.	800 mm to 1250 mm
Beaming tension	10 KN to 40 KN
Beaming speed	100 MPM (Higher on request)
Creel ends	600 to 4000 ends



Head Stock

Rigid structure with side frames supporting beam carriages. Independent motorised beam carriages with heavy duty ball bearing arbors to facilitate accommodation of warp beam having different width by means of spline shaft drive. Carriage movement controlled by hand held controller.



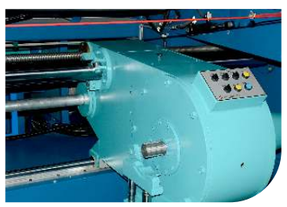
Beam Loading / Unloading

Safe and quick loading and unloading of beam with retractable spline type beam adaptors by means of hydraulic system.

Poly Beamer With Unwinding Creel
Polymatic



Features Highlights



Drive

Beam drive through AC inverter offers constant beaming speed through out length. Precise linear acceleration and deceleration to maintain constant line speed control in close loop. Constant beaming tension from beam start to end by adjusting pressure in auto close loop. Slow speed Jog speed option provided.



Warp Sheet Feed

3 roller feeding system consists of synthetic rubber coated delivery and chrome plated nip roller.

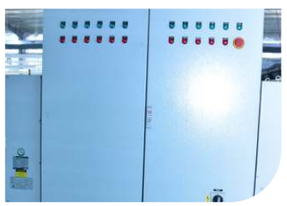


Operator Double Safety

Operator safety devices are provided in front of the nip roller and the beam operation area. These safety devices are interlocked with the machine operation to ensure safety.

Operator Working Platform

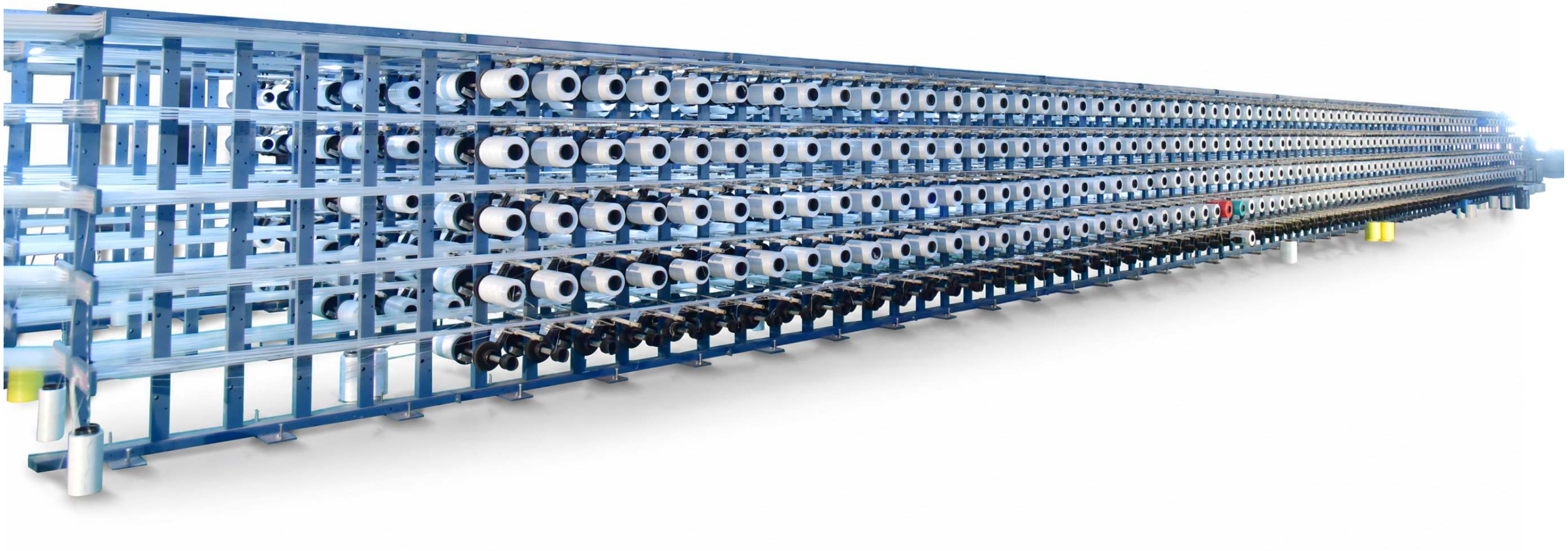
At the back side of the machine, MS fabricated working platform for operator for easy access to comb assembly and easy for warp knotting and yarn sheet alignment.



Panel AC for Control Panel

To ensure normal temperature in control panel air conditioning unit installed.

Poly Beamer With Unwinding Creel
Polymatic





Bobbin Holder Spindles

Mounted on precision bearings with suitable locking cups and rubber o rings and equipped with braking provisions for individual spindles. Warp tension adjustment is achieved through a spring loaded guide.



Parallel Unwinding Creel

Heavy duty MS pipe fabricated structure.

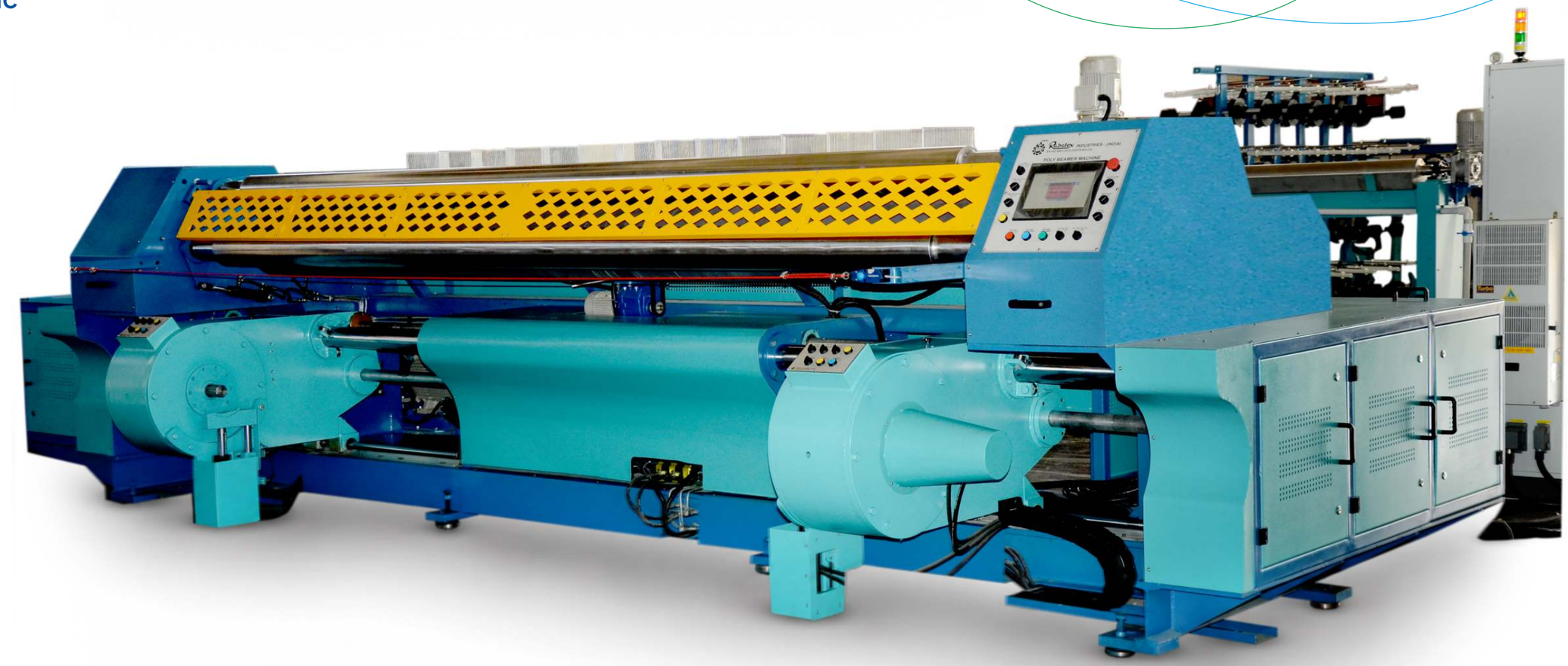


Creel Front Eyelet Board

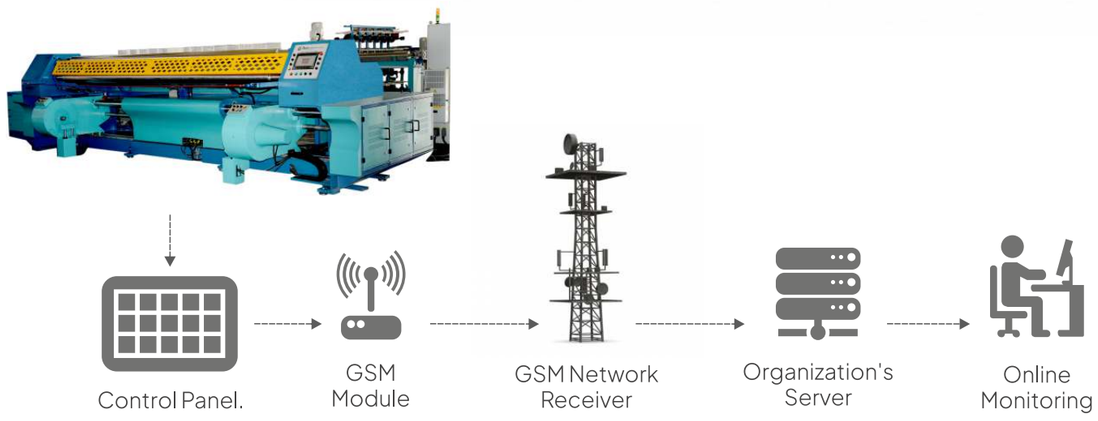
Ceramic Eyelet board on each individual raw for separation of warp sheet raw wise to ensure alignment of all warp ends.

Poly Beamer With Unwinding Creel

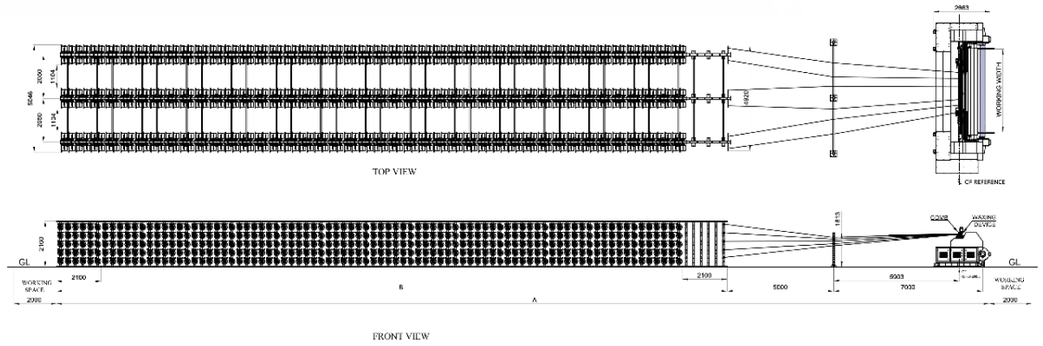
Polymatic



Online Monitoring Systems



Poly Beamer Layout



General Note: All dimensions are in mm Unless otherwise specified

:



Creel for Carbon Fiber

Pitch : 200 to 500mm / Vertical Deck : 4 to 8 / No of Ends : 200 to 1200



Creel for Geo Grid

Pitch : 200 to 500mm / Vertical Deck : 4 to 16 / No of Ends : 400 to 4100



Unwinding Creel for Flat Tape

Pitch : 200 to 500mm / Vertical Deck : 4 to 16 / No of Ends : 400 to 4100



Unwinding Creel for Flat Tape

Pitch : 200 to 500mm / Vertical Deck : 4 to 16 / No of Ends : 400 to 4100



PP Mono Filament Unwinding Creel

Pitch : 200 to 500mm / Vertical Deck : 4 to 8 / No of Ends : 200 to 600



Heavy Denier Unwinding Creel

Pitch : 200 to 500mm / Vertical Deck : 4 to 12 / No of Ends : 200 to 1800



Creel for Glass Fiber

Pitch : 350 to 500mm / Vertical Deck : 4 to 10 / No of Ends : 300 to 2800



Creel for Glass Fiber

Pitch : 350 to 500mm / Vertical Deck : 4 to 10 / No of Ends : 300 to 2800

Batching Device



Application Features

Loom batching motion (Batching device) is designed to attach all type of weaving machine. Any type of woven, non-woven or knitted fabrics can be taken up on the machine and are designed to give tight and compact rolls in the most elastic to heaviest fabrics such as industrial textiles.

Technical Features

Working Width	1700 mm to 3600 mm
Maximum Cloth Roll Dia	1000 mm to 1500 mm
Maximum Cloth Roll Weight	300 to 2500 Kgs
Maximum Cloth Roll Weight Control	Close loop AC drive

Ultrasonic Reed Cleaning



Features Highlights

- SS fabricated tank for cleaning with over head cover for effective use
- SS fabricated tank for rinsing process
- SS fabricated tank for drying process
- Machine mounted on swivel type castor wheel for easy transport with jack at 4 corner for parking
- Inlet for fresh water/outlet for water disposal
- Water level sensor
- Water heater with temperature controller
- Ultrasonic sensor and generator with timing control
- Rinsing tank with water outlet to drain out water
- Drying tank with hot air blower
- Interlock with sequential operation
- PLC controlled timing sequence
- 5.7" touch screen for process control setting as well as on line process monitor, safety alarms, user guide lines help menu

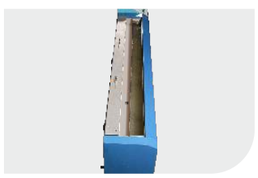
Advantages

The weaving process is operated on a high speed machine with a high RPM, ensuring smooth, stable and efficient operation.

To maintain stable operation at high speed, it is essential to ensure that all parts, tools and equipment of the Air Jet Loom machine are in good condition, especially the profile reed.

The ultrasonic reed cleaning machine promises efficient cleaning.









Technical Features

Suitable for reed of weaving machine size	1900 mm to 3600 mm
Water tank size	2400 mm to 4100 mm length 150 mm to 225 mm width 150 mm height
Water capacity	110 ltr to 250 ltr
Power supply	3 phase/50 Hz, 380-440 V AC
Reed mounting position for cleaning	Vertical 2 reeds at a time
Water heating	Through heating element having thermostat
Water tank	SS 316
Cleaning method	Through ultrasonic device, 40 Khz / 1.2 kW to 2.4 kW
Rinsing tank	SS 316
Drying chamber	SS 316 chamber with hot air provision blower and heating arrangement





Drying Chamber



Tensioner



Calendar Roller



Winding Mechanism

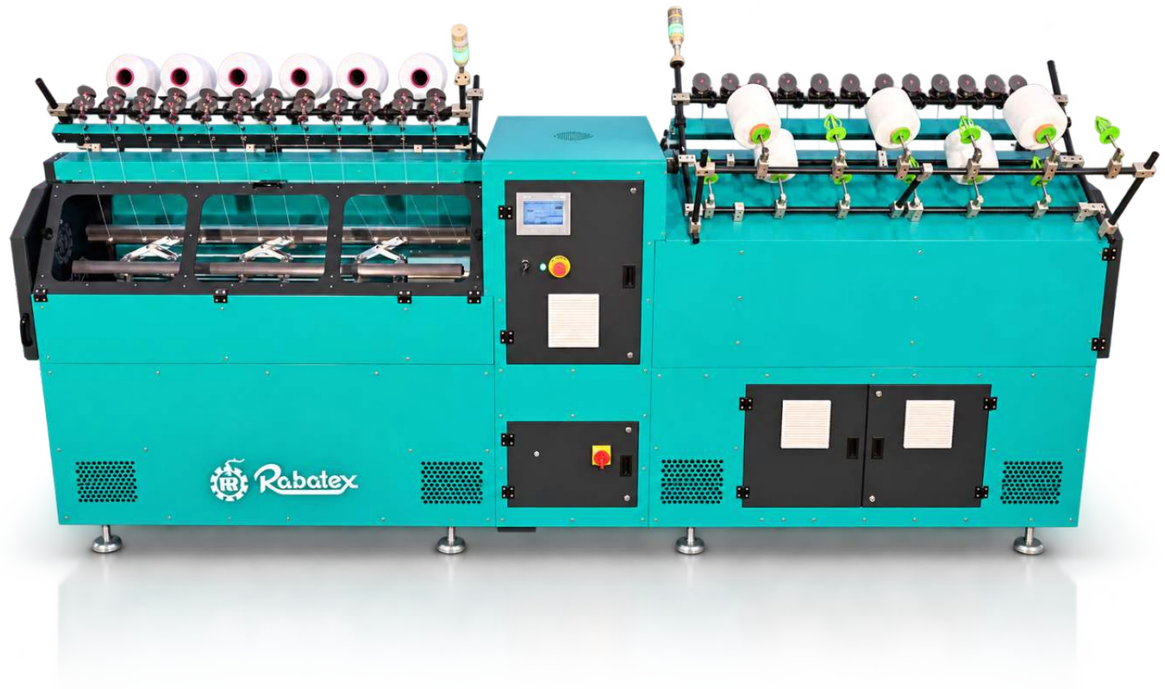
Features Highlights

- Individual yarn tensioners to provide the uniform tension
- Very Simple chemical trough given so as to make yarn passage smooth avoiding unnecessary tension on yarn. No rollers, no extra tensioners
- In trough, two Sponge squeezers of special material given to squeeze the extra paste from yarn giving advantage of full size penetration in the yarn and extra strength by giving compact effect, uniform drying of the yarn
- Advanced IR dryer with convection system for uniform drying of each yarn
- Saving of energy by providing hot air circulation system
- Contact less dryer avoid the chances of damaging the yarn coating
- Adjustable heat setting of dryer will help to maintain the even moisture in the yarn
- Precision winding with traverse guide provided for individual spindle to make final package uniformly wound
- Winding of cheeses with bi conical/ straight edges
- Individual package traverse length adjustments.
- Very low maintenance cost as the machine is very sturdy and compact
- Package holder cradles are provided to give enough compactness of package

Technical Features

No. of Creel Ends	48 to 400
Machine Type	Multi End Coating Machine
Package Winding Motor	Controlled by individual AC motor with individual traverse cam
Winding Speed	0 - 150 MPM (Depend on the type of yarn)
Drying Option	IR drying with convection or induction heating attach
Temperature Control	Provided drying zone from 80 - 150 degree centigrade
Chemical Tank	SS fabricated size chemical tank provided
Chemical Circulation	Pump provided
Chemical Pump Motor and Pump	Controlled by AC motor
Hot Air Circulation Device	Controlled by blower motor





Features Highlights

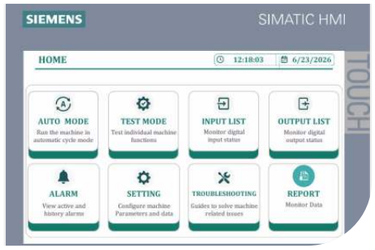
- Dual 7-inch touchscreen HMI with quick-access function switches
- Individually controlled operation dashboard
- Drum Expand / Collapse controlled by Variable frequency drive
- Winding pitch and angle controlled by servo drive
- Drum winding controlled by variable frequency drive
- Troubleshooting checkpoints and test mode menu
- Real time length measurement
- Energy efficient
- Real-time data monitoring for all motors
- Variable winding-stroke setting for precise winding angle
- Auto-stop on yarn breakage, with alarm and tower-light indication
- Overload sensors with indication on all motors
  Individually controlled stop motion sensors
- Advanced operator safety features on each side, with pop up alarms
- Last 10 batch recipes stored in the HMI history

Technical Features

Number of Hanks	24 nos (12 x 2)
Winding speed	Up to 1000 MPM
Yarn-guide traverse speed	Up to 350 double strokes/min
Yarn brake	Through Sensor and Indicator
Yarn tension control	Through ratchet-type tensioners
Length Measurement	Through encoder
Winding Stroke	Up to 520 mm
Winding Pitch	0.05 mm to 1 mm
Winding Motor	3 HP AC motor
Winding Drive	AC drive
Winding traverse controlled by	Through servo motor
Input Power Supply	450 V, 3 phase

Hank Specification

Hank circumference	1,066-1,473 mm (42-58 inch)
Hank weight	Up to 3,000 g per hank
Hank width	95-520 mm



Operating HMI Panel

- Touch Screen
- 7 inch Multicolor LCD
- Set length/set speed with live actual speed display
- Pop up alarms
- Real time status monitoring
- User friendly interface

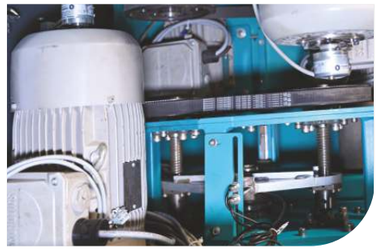


Drum Assembly

- Adjustable drum diameter
- Lightweight hardened aluminum links
- Ergonomic winding shape profiles
- Yarn knotting hook

Drive Systems

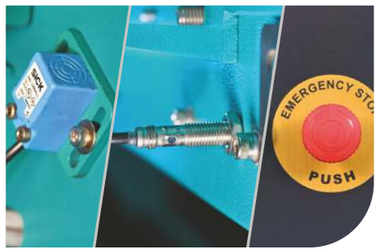
- Yarn Traverse Servo motor
- Drum Rotation AC motor with encoder
- Drum expand / collapse AC brake motor with encoder
- All Drives with timing belt and pulley



Yarn traverse assembly

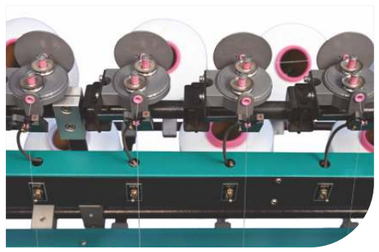
- Servo controlled
- Timing belt and pulley
- High precision winding
- Constant traverse angle pitch
- Variable traverse angle pitch





Safety and sensors

- Front door senso
- Side door sensors
- Yarn guide over traverse sensors
- Emergency stop
- Yarn brake sensor
- Homing sensor
- Expand/ Collapse sensors



Tensioner Assembly

- Ratchet type tensioners
- Bi directional yarn sensing
- LED indication for yarn
- Adjustable angle
- Adjustable pitch
- Individual toggle switch

Bobbin holder assembly

- Suitable for any type of paper tube
- Angle adjustment according to package height
- Adjustable pitch to suit package diameter



Data log

- Built in data log stores the last 10 batch production records
- Captures start/end date and time for every batch
- Logs length, speed, pitch, and initial and end hank width
- Records standard cycle, section cycle, and section width



Rapid Store



Rabatex Rapid Store is a vertical lift module, the automated storage and picking system of any products and goods in any different work environment increasing the performance of your workhouse and shop floor as well as the efficiency, speed, accuracy, flexibility, inventory control management, safety of your storage and order picking process with minimum amount of space required by enhancing storage space vertically.

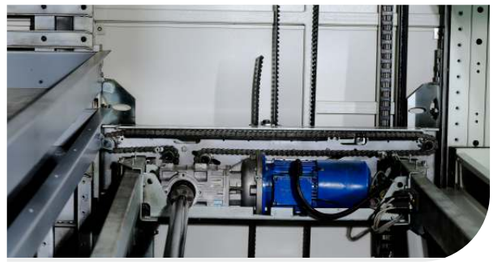


Space Utilization

Vertical lift modules are available in various Height/Width/Depth to meet every application. Utlizing the floor to ceiling height and storing trays height optimising positions allows the Rapid Store to save up to 85% floor space when compared to standard shelving, with the Rapid Store organization can expand operations internally without a brick and mortar building expansion or consolidate multiple facilities.

Working Principle

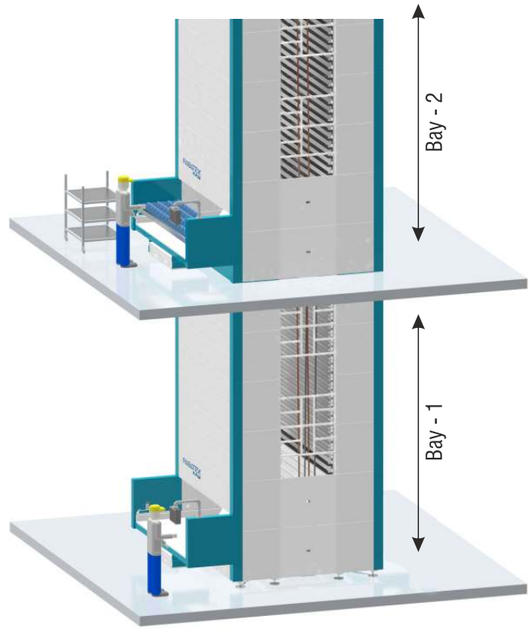
Rapid Store system, is responsible for transporting trays to and from their storage location. The extractor is driven by reinforced toothed belt high precision and low noise feature. The center extractor guiding system is independent of the unit structural members and thus ensures safe, jerk free and uncritical operation with low energy cost and short waiting time.



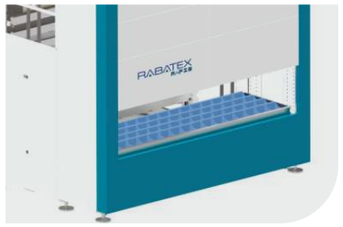
Toothed Belt Technology

Benefits of Rapid Store

- Save upto 85% floor space
- High economic efficiency by faster material availability with reduced labour
- Elimination of manual mistakes
- Best protected inventory management
- Storage and handling of light to heavy parts
- Accidents free operation by advanced safety devices
- Easy and ergonomic operation
- Modularity



User Friendly System



Internal Bay



External Bay


Laser Pointer For
Material Location

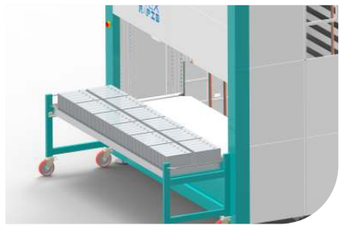

Barcode Scanner
And Printer



Automated Doors

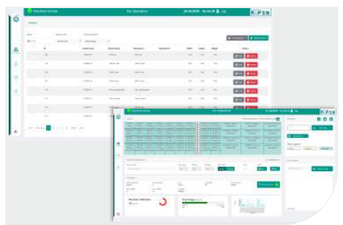


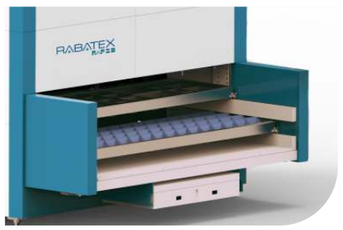
Touch Screen Console


Portable Extension Bay



Safety Sensors


Inventory Control
Management Software



Double Tray
Delivery Station

Height Dependent Storage

- Cell allocation with height scanning technology
- Max. space utilization
- With max. flexibility reduce accident possibility
- Eliminate manual mistakes





Modular Design

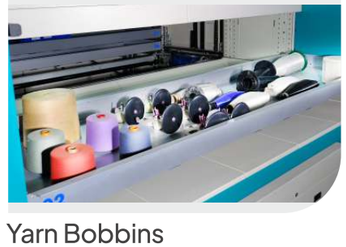
Modular design which can always be adapted to increase capacity and Bay for future height requirements.

Tray Variants

The tray is designed for each type of industries individual goods/material

- Customize design for different height and weight of material
- Weight based design for different applications
- Multipurpose design to make compartments


Empty Tray


Yarn Bobbins


Electronic Items


Plastic Bins


Small Componenets


Spare Parts And Tools

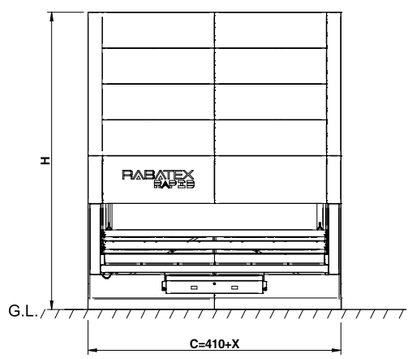

Metal Parts

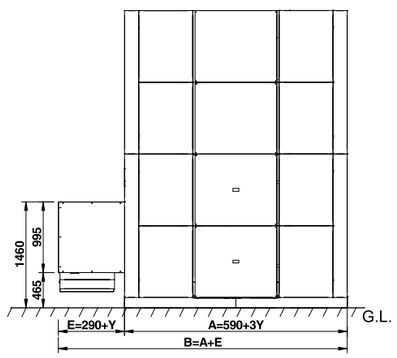

Heavy Parts

Data/Features

Vlm Unit Dimension Chart

TRAY WIDTH (X)	TRAY DEPTH (Y)	A	E	B	C	H
1160	840	3110	1130	4240	1570	4190 to 12190 (WITH 500 MM INCREMENTAL)
1560					1970	
2020					2430	
2520					2930	
3120					3530	
3720					4130	
1160	740	2810	1030	3840	1570	
1560					1970	
2020					2430	
2520					2930	
3120					3530	
3720					4130	
1160	640	2510	930	3440	1570	
1560					1970	
2020					2430	
2520					2930	
3120					3530	
3720					4130	
1160	540	2210	830	3040	1570	
1560					1970	
2020					2430	
2520					2930	
3120					3530	
3720					4130	





- Unit heights: 4000mm to 24000mm (In multiple of 500 mm)
- Tray depth: 540/640/740/840 mm
- Tray width: 1160/1560/2020/2520/3120/3720 mm
- Weight capacity per tray: 250 kg to 750 kg
- Operator interface: 24" Touch Screen PC
- Automatic tray weight measurement
- Ergonomic tray position
- Rugged steel structure
- Extractor driven by high precision and low noise toothed belt transmission
- Automatic Door Mechanism
- Light curtain for operator safety
- Inventory control management software
- Remote diagnosis

Additional Accessories (on request)

- Tray accessories for compartment creation
- External bay
- Dual tray delivery
- Multiple opening access
- Portable extension bay
- Laser pointer for material detection
- Barcode scanner and printer system

Inteligent ASRS - Vertical Storage Solution
Storematic



The vertical carousel system

Storematic is Rabatex's vertical carousel storage and retrieval system: maximum storage capacity on a minimum footprint, by unlocking the value of vertical space.

Instead of operators walking to the shelves, Storematic brings the stored goods to the operator. Carriers rotate inside a closed, self-supporting steel housing and present the required item at an ergonomically positioned access opening quickly, precisely and safely. The result is higher efficiency and productivity: every square metre of floor is put to work, which is the essence of economic storage.

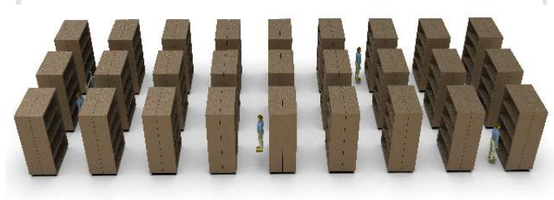
No two Storematic installations are the same, because every store has its own mix of goods, access frequencies and floor plan. On the basis of your requirement and our experience, Rabatex develops a complete storage solution to your needs - from carrier design and layout to installation, training and after-sales support.

Space Utilisation
Why Store Vertically?

Conventional storage methods are limited to a working height of about 2.5 metres; the height above that is usually wasted. Storematic uses the full floor-to-ceiling height of the building and optimises the position of every carrier, so a single unit replaces many rows of static shelving.

Storematic is available in various heights and widths to meet every application. Compared with standard shelving it saves up to 80% of floor space space that can be returned to production, or used to hold more inventory in the same building.

Saving up to 80% of your floor space



One Storematic unit replaces the floor area of many rows of conventional shelving.

≤ 2.5 m
usable height of conventional shelving - everything above is wasted

3 – 8 m
Storematic unit heights, using the full floor-to-ceiling height

Up to 80%
floor space saved compared with standard shelving

Working principle

Storematic is a high-density vertical storage and retrieval system. Its carriers are closely mounted on twin endless chains driven by a geared brake motor. When an item is requested, the carousel rotates in whichever direction - clockwise or anticlockwise - gives the shortest path, so the stored material reaches the access area at ergonomic working height with minimum travel time.

The operator calls up the carrier, bin or component by its part number on the touch-screen console; the microprocessor controller does the rest. Because goods come to the person rather than the person going to the goods, walking, searching and stooping are designed out of the process.



A retrieval in three steps

Call up the item
The operator enters the part number on the touch-screen console, or scans its barcode (optional).

The carousel rotates
The controller selects the direction with the shortest path; carriers travel on twin endless chains to the opening.

Pick at working height
The carrier stops at the work table behind the door; light curtain and safety bars guard the access opening

Benefits at a glance



Up to 80% floor space saved
Vertical storage releases floor area for value-adding work.

Higher economic efficiency
Faster material availability with reduced labour.

Elimination of manual mistakes
Part-number-based retrieval removes searching and picking errors.

Best protected inventory
Goods are stored inside a closed, sheet-metal-clad housing.

Light to heavy parts
Storage and handling of light to heavy parts in one system.

Accident-free operation
Advanced safety devices protect operator, machine and goods.

Easy, ergonomic operation
Goods presented at working height; intuitive touch-screen control.

Engineered for speed, flexibility and safety

Every Storematic is built from the same proven elements: carriers designed around the goods, a fast and quiet drive, an intelligent controller and a safety concept that protects people, machine and inventory.

Flexible carriers and storage

- Carriers specially designed to suit the shape, dimensions and weight of the material to be stored.
- Suitable for all customary storage containers and storage bins.
- Divisible carriers store different materials in the same carrier while keeping each separate - removable, adjustable dividers mounted on slotted rails.
- Greatest possible capacity for the most diverse range of goods, from bulk material and small parts to multi-part assemblies and components.
- Drawers with telescopic runners and 100% pull-out capacity.

Fast, efficient access

- Fast storage and retrieval through higher speed and built-in shortest-path logic.
- Optimisation of high-rotation products: frequently needed carriers can be stored closer to the retrieval point to shorten access time.
- Accurate organisation and management of low-rotation products.
- Low power consumption through an energy-efficient motor and components.

Robust construction

- Torsion-free, self-supporting, powder-coated construction with sheet-metal cladding for maximum protection of the assembly.
- Well-engineered guiding system with best-quality bearings ensures low noise while the system is working.

Intelligent control

- Advanced microprocessor controller: the desired carrier, bin or component is retrieved by its part number.
- In case of power failure, the present position of the carrier is memorised by the PLC.
- Can be interfaced with a PC or control computer system.
- Manual carrier jog buttons to override automatic control.
- Standard 12" (300 mm) working table for easy storage and retrieval by the operator.

Safety by design

- Two photoelectric sensors along the access area detect any object protruding from a carrier; if detected, the system stops and the error is indicated on the display.
- Two additional safety contact bars at the top and bottom of the access area stop the system if pressed, with the error indicated on the display.
- An emergency stop button is provided on the system.

Storematic in six points

1 Goods to person
Stored goods are delivered to the operator at the access opening.

2 Shortest-path logic
Rotation in both directions; the controller takes the shortest route.

3 High density
Closely spaced carriers use the full height of the room

4 Ergonomic access
Items presented at working height on a standard work table.

5 Tailor-made
Four carrier widths, four depths, unit heights from 3 to 8 m.

6 Safe by design
Light curtain, safety contact bars and emergency stop.

What can Storematic store?

From bulk material and small parts to multi-part assemblies, files and long goods the carrier is designed around the material, not the other way round.

Industrial parts, tools and components

Small parts, C-items, tools, spares and sub-assemblies stored loose, in standard storage bins or in customer-specific containers. Frequently used carriers are positioned closer to the access point for shorter cycle times; low-rotation items stay accurately organised and protected inside the closed housing.

Long and heavy goods

Carriers for long and heavy raw material such as iron channel, beams and pipes; finished goods in roll form such as fabric, carpet, PVC, aluminium or copper foil; and ready-to-use products such as tyres, rims and reels of electrical or metal wire making use of otherwise unused air space.

Load class and carrier dimensions for this application on Storematic: technical confirmation required from Rabatex

Documents, files and records

Approximately 65% of the time spent on document storage and retrieval is non-productive searching, shifting and rearranging records. Records vary in size and numbering, are referred to at different frequencies and by changing people, and older records become hard to trace.

Storematic file carriers call up the exact record from thousands within seconds using the controls provided, eliminating walking, stooping, bending, reaching and searching, in a simple, organised, well-lit, controlled and safe storage system.

Carrier variants & configurations
One carousel, many ways to store

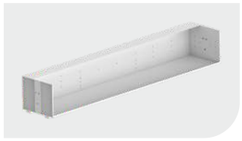
The variety of goods a Storematic holds ranges from bulk material and small parts to large multi-part assemblies, files and long goods. Carriers are therefore configured individually: width, depth and height are chosen to suit the material, and the usable space is subdivided with removable dividers on slotted rails, intermediate tiers, drawers or dedicated fixtures. Standard storage bins and transit containers as well as customer-specific containers can be used directly on open carriers

Carrier widths	2020 · 2520 · 3150 · 3720 mm
Carrier heights	300 – 800 mm

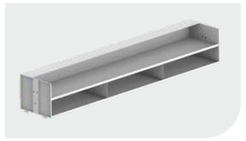
Carrier depths	360 · 460 · 560 · 620 mm
Load per carrier	300 – 650 kg

Open and partitioned carriers for the direct

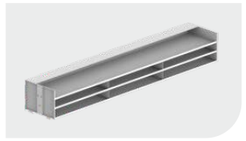
storage of goods, bins and containers



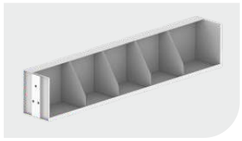
Flexible Carrier-M
Open carrier for the direct storage of goods, standard bins and containers.



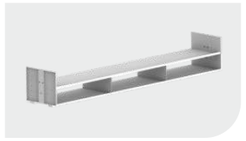
2-tier partition
An intermediate tier doubles the storage levels for flat or medium-height goods.



3-tier partition
Three storage levels for small, flat parts and bins.



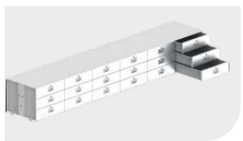
Flexible Carrier-S
Ver cal compartments keep di6erent items separate within one carrier.



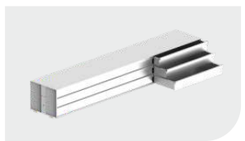
Both-side-open carrier
Open on both faces for installa ons with an opposite-side access opening.

Dividers and tiers
Removable, adjustable dividers on slotted rails and intermediate tiers let one carrier hold several materials while keeping each separate. Carrier accessories for compartment creation are available on request

Drawer carriers secure, well-arranged storage of small parts



Customised locking drawers
Lockable drawer blocks for the secure, well-arranged storage of small and valuable parts.

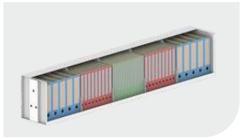


Customised drawers with telescopic sliders
Telescopic runners with 100% pull-out give complete access to the drawer contents.

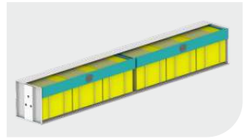
Made to measure
Drawer sizes, locking and the mix of drawers, dividers and open sections on a carrier are specified to suit your parts list

Carrier variants & configurations
Files, records and long goods

File and record carriers for document, Nle and record storage



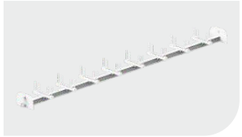
Vertical file carrier
Upright storage of files and binders, subdivided for easy sorting and retrieval.



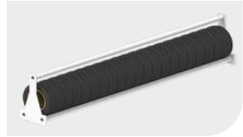
Horizontal file carrier with telescopic slider
Horizontal file storage on telescopic sliders that pull out for easy access to every file.

Records within seconds
The exact file is called up from thousands by its number and presented at the access opening no walking, stooping. bending or searching.

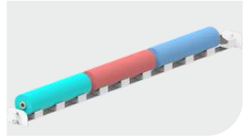
Long and heavy goods carriers raw material, rolls, tyres and reels



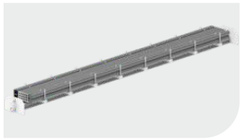
Flexible Carrier-XL
Extended-width open carrier for long items.



Tyre carrier
For tyres, rims and tyre-and-rim assemblies



Customised drawers with
Cradles for rolls of fabric, carpet, PVC or foil



Long raw material carrier
For iron channel, beams, pipes and similar long raw material.



Wire spool carrier
For reels of electrical and metal wire of different types and gauges.

To be confirmed by Rabatex These carriers were previously offered on Rabatex's heavy-duty carousel (carrier widths 4000-6500 mm, 1000-1800 kg per carrier). Availability on Storematic, and the applicable load and dimension range, require technical confirmation from Rabatex before publication.

Choosing the right carrier

What to tell us
- The range of items to be stored: dimensions, weight and quantity per item.
- Whether goods are stored loose, in standard storage bins or in your own containers.
- Access frequency per item group -high-rotation items are placed closer to the access point.
- Any need for locking, separation of materials or access from two sides.

What we design
- Carrier width, depth and height matched to the goods and to the building.
- Subdivision with dividers, tiers, drawers or dedicated fixtures.
- The mix of carrier variants within one carousel.
- Accessories such as pick-to-light, barcode scanning and inventory software

From a single unit to a complete storage system



Several Storemac units installed side by side form a composite storage system sized to the store's requirements.

Stand-alone or composite

Storematic can be installed as a stand-alone unit or extended into a composite system of several units, depending on throughput and inventory. Units can be configured with multiple access openings including an opposite side opening used with both-side-open carriers so that the same carousel can be served from two sides.

Connected to your processes

The microprocessor controller can be interfaced with a PC or control computer system. Optional inventory control management software, a barcode scanner and label printer, and pick-to-light material location support fast, error-free transactions, while remote diagnosis (on request) shortens response times for service.

Standard features

- Colour touch-screen operator console
- Ergonomic carrier position
- Rugged steel structure
- Automatic or manual door mechanism
- Light curtain for operator safety

Additional accessories (on request)

- Carrier accessories for compartment creation
- Multiple opening access
- Pick-to-light feature for material detection
- Barcode scanner & printer system
- Inventory control management software
- Remote diagnosis

A user-friendly system

Everything the operator touches door, console, carrier presentation and safety devices is designed for simple, safe daily use. Items marked optional are available on request.



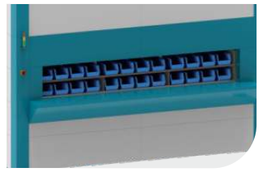
Barcode scanner and printer

Scan items in and out and print labels at the access point for fast, traceable transactions. Optional.



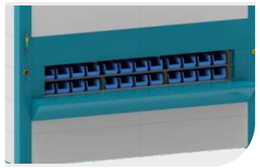
Auto chain tensioner

Keeps the load chains at the correct tension automatically. for smooth running and reduced chain wear.



Pick-to-light for material location

An indicator lights up at the position of the requested item, guiding the operator straight to it. Optional.



Internal bay

Goods are presented inside the protected access bay at working height, ready to pick



Automated door

Powered door mechanism at the access opening - the automatic alternative to the manual door.



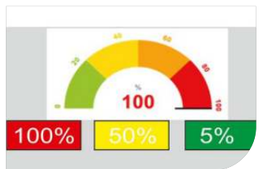
Touch-screen console

Colour touch-screen operator interface: retrieve by part number, view status and error messages.



Inventory control management software

Manage locations, stock and transactions on screen; interface with a PC or control computer. Optional.



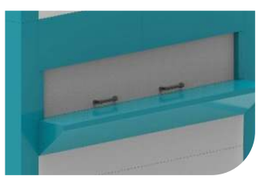
Unbalanced load meter

Shows the load imbalance of the carousel at a glance so that carriers can be loaded evenly



Safety sensors

Photoelectric sensors and safety contact bars at the access area stop the carousel immediately; emergency stop within reach.



Manual door

Manually operated door at the access opening as a simpler alternative.

Spread across the globe

Over the years, we developed our own warping technologies, expanded into material handling and storage, worked with technical textile, and continued building solutions around changing industrial needs.

Shirting

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