



For Textile Processing Machines

innovative engineering

Yamuna Machine Works Ltd.

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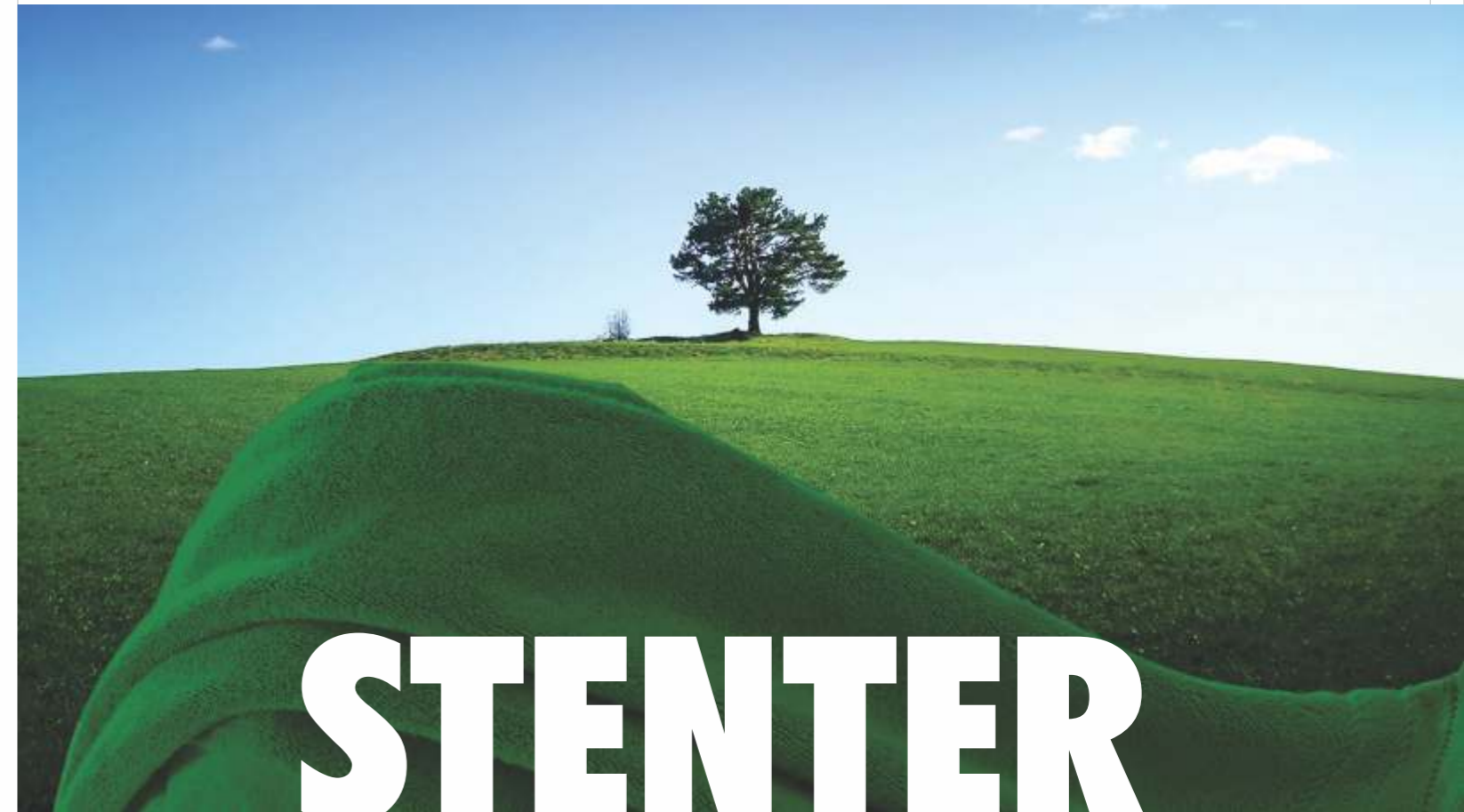
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For Textile Processing Machines

innovative engineering



STENTER

fine art of finishing





engineering

innovative engineering

engineering (innovative engineering) is a customer-centric approach that enables Yamuna Machine Works to truly enrich and empower its customers in India and abroad with cutting-edge solutions. This unique brand of smart engineering has helped Yamuna build business and relationships on the very foundation of customer satisfaction. No wonder, Yamuna has carved a special niche for itself among the leading manufacturers for textile processing, finishing and allied industries.

Design. Develop. Deliver

At Yamuna, we design, develop and deliver an extraordinary line-up of state-of-the-art textile machinery including Hot Air Stenters, Denim Furnishing Range, Hydraulic Jiggers, Coating Lines, Singeing Machines, Polymerisers, Thermobonding Lines, Dye Pedders, Drying Range, Shrinking Range, Rope Scouring, Washing Range and Dipping Lines-all manufactured to global standards of excellence.

Technology that's Tested and Trusted for 25 Years

There's trust in every thread and our customers count on it! Some of the biggest brands in fashion fabrics, furnishings and industrial textiles emerge from the womb of Yamuna Machine Works, displaying in full glory their quality and character-be it the soft-n-smooth luxurious feel of chiffon, the angry ruggedness of denim, the rich texture of a carpet, the durability of a corduroy or the heavy-duty outdoor spirit of a canvas tent. With 25 years of experience, Yamuna has developed a high level of sensibility to the special needs of customers and provides them with the right machines, at the right time and of course, the right pricing!



State-of-the-art. Straight-from-the-heart

Yamuna's sprawling 10,000 sq mtr. modernised plant is located in the vibrant and energetic industrial town of Vapi (South Gujarat), just 170 km from Mumbai – the financial capital of India. But there's more to textile machinery than just mechanical, electrical and electronic components. The Company has a dynamic Design and R & D Team which is setting new benchmarks thanks to its inspired efforts to raise the bar of excellence.

Yamuna has its HO in Mumbai and a proactive sales and after-sales service network all over India. They are the real nuts and bolts who build the last mile bonding with our customers.

Team Yamuna...best in class

Here is a team of talented professionals who bring to the drawing board not just their expertise, but wisdom distilled from years of experience. Where commitment to quality and timeframes is dictated not merely by the clauses in a contract, but an intense self-desire to be the best in class. No job is too small and no project too big, simply because there's almost a meditative scientific approach to work. Here, success isn't defined by the bottom line in the balance sheet but measured by the respect and goodwill earned over 25 years!

A global ring to our engineering!

As India takes giant strides towards becoming an industrial powerhouse, it's a defining moment for Yamuna. The Company is perfectly poised to explore and expand beyond geographical boundaries and organically progress on the world stage. Multinational textile engineering companies and fashion labels will only be eager to collaborate with an Indian partner who brings a global ring to engineering!



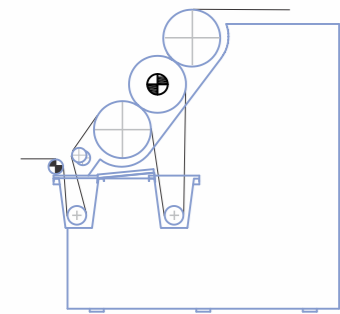


ENTRY UNIT WITH PADDERS FOR NON STOP PRODUCTION

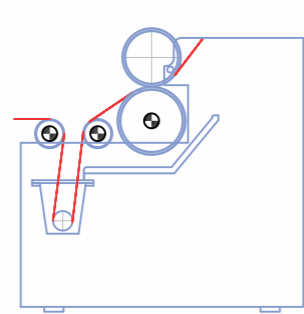


Features and Technical Data

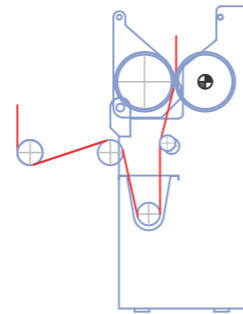
- Operate with variable linear pressure for top & bottom squeezing with R-E-R & R-R-R combination.
- Hydraulic deflection rollers for specialized squeezing purpose.
- Mechanical or Pneumatic arrangements for lowering & lifting of the tank with heating and cooling possibility of liquor trough.
- Bow or scroll rollers before entering in the padder.
- Shore hardness up to 100° are available.
- Maximum linear pressure: 500N/cm.
- working width range 1200 mm - 4200 mm.
- Entire body frame from MS with SS cladding inside the wall.
- Rubber coated roll, assembled vertically ϕ 305 mm up to 2400 mm & ϕ 355 mm up to 4200 mm working width.
- Liquor circulation with auto level controlling.
- Compensating roller with pneumatic tension regulation & load cell control for different kind of fabrics.



3 BOWLS PAPPER FOR WOVEN FABRIC



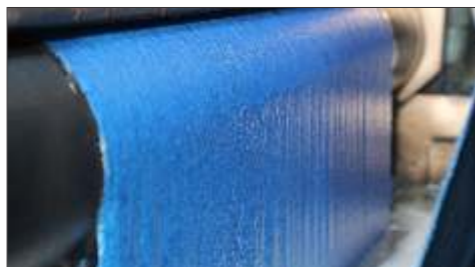
2 BOWLS VERTICAL PAPPER



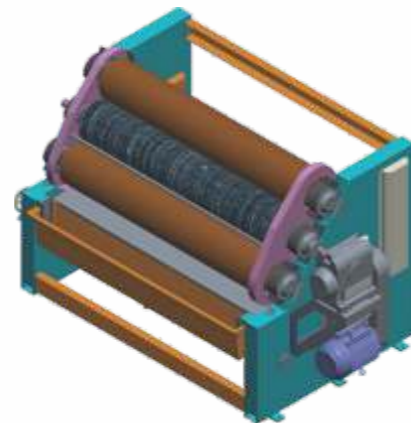
2 BOWLS HORIZONTAL PAPPER



J-BOX

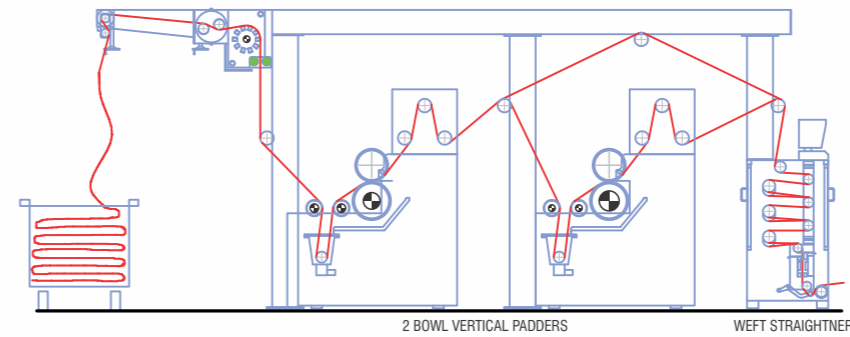


ACCUMULATOR



MULTIPLE ENTRY OPTIONS FOR DIFFERENT KIND OF FABRICS

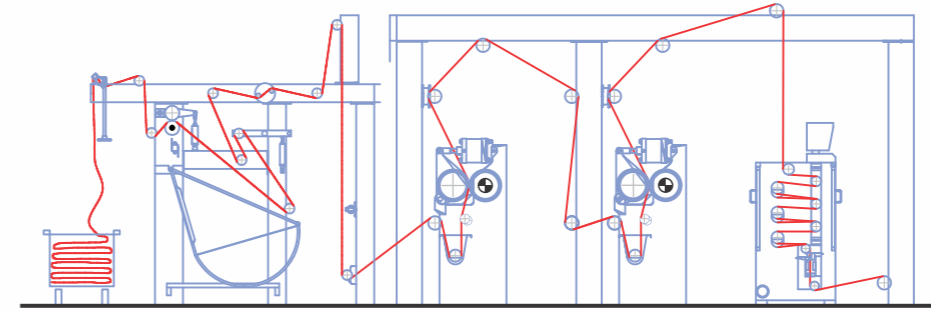
WET ON WET PROCESSING FOR KNITTED FABRIC



2 BOWL VERTICAL PADDERS

WEFT STRAIGHTNER

WET ON WET PROCESSING FOR WOVEN FABRIC

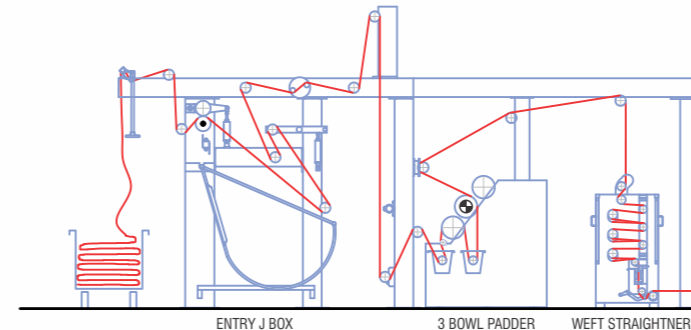


ENTRY J BOX

2 BOWL HORIZONTAL PADDERS

WEFT STRAIGHTNER

ENTRY SECTION WITH J-BOX & MANGLE FOR WOVEN FABRIC

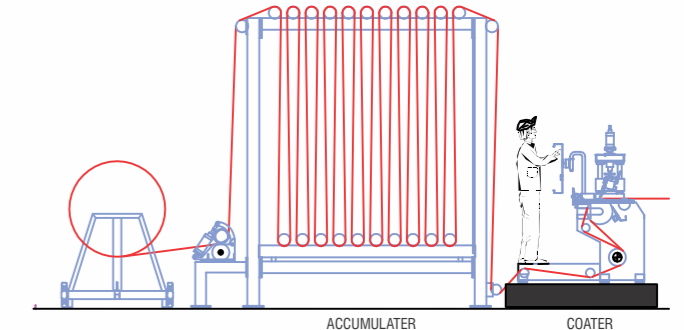


ENTRY J BOX

3 BOWL PAPPER

WEFT STRAIGHTNER

ENTRY WITH ACCUMULATOR FOR TECHNICAL TEXTILES



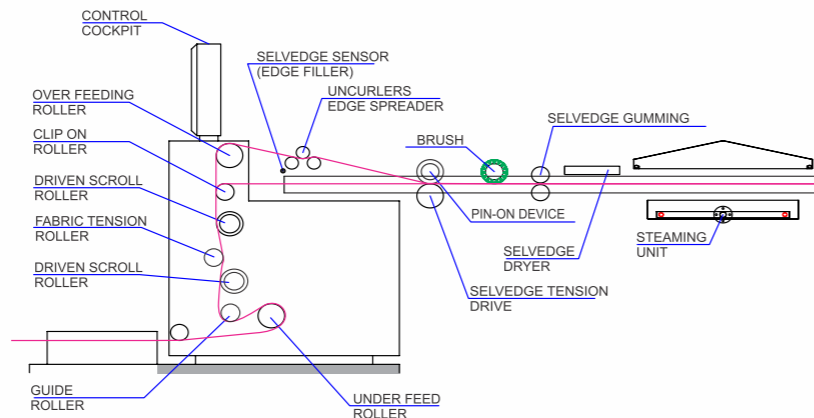
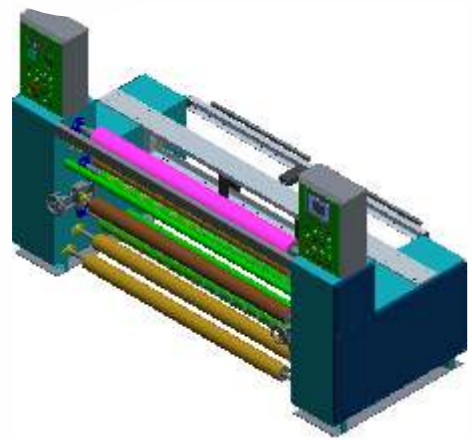
ACCUMULATOR

COATER





EASIEST ENTRY FOR THE FABRIC BY SPECIALLY DESIGNED FEEDING OPTIONS



- Individual driven overfeed, underfeed, selvedge LHS & selvedge RHS controlled by PLC & TOUCH SCREEN.
- Overfeeding from -15 to 70 % directly adjustable to PC / TOUCH SCREEN.
- Specialized driven SS scroll rollers for woven as well as knitted fabrics.
- Gumming & Pre Steaming options.
- 3/4 FINGERS UNCURLERS or EDGE SPREADERS from TEFLON make for proper selvedge decurling.
- Pneumatic operations for selvedge pinning wheel + Multiple self driven pinning brush options.
- Infra red sensors for fabric infeed with fabric safety options for fabric pin out.
- Fabric support at feed end with separate drive synchronized with chain drive.

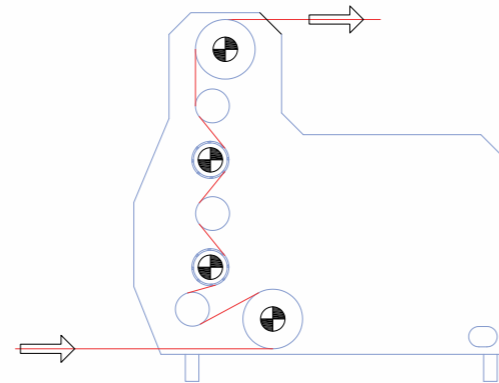
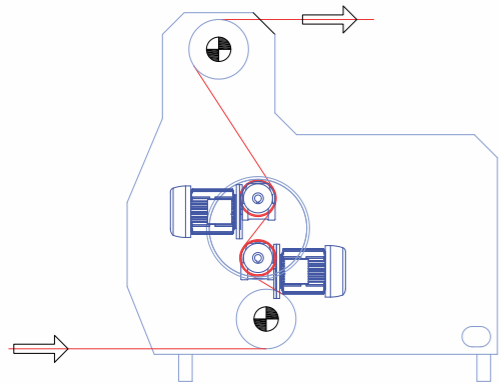
FABRIC FEEDING OPTIONS



Diversified chain Inlet lengths as 3 m, 4.5 m, 6 m for finishing processes of woven, knitted and home textile fabrics.

Motorised Driven scroll rollers for Knitted fabric

Specially designed for woven fabric



Feeding Desk



3/4 fingers uncurlers for woven fabric

Spreaders for Knitted fabric

Gumming, steaming and trimming for Knitted fabric



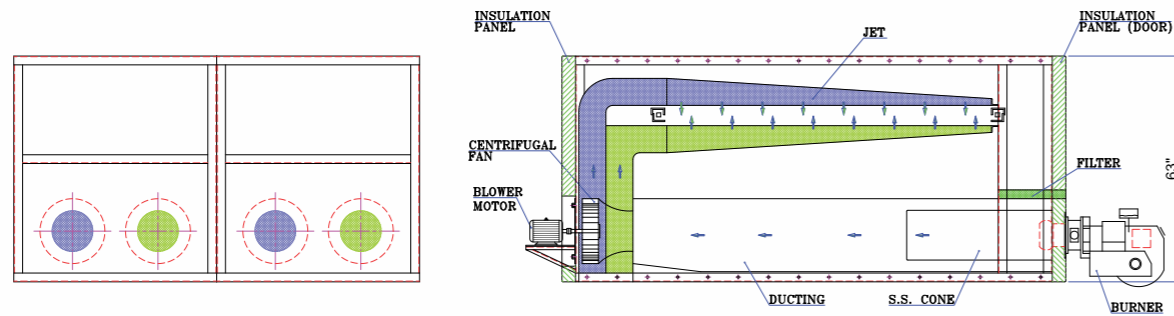


CHAMBER DETAILS

CHAMBER DETAILS



CLOSED CIRCUIT AIR CIRCULATION

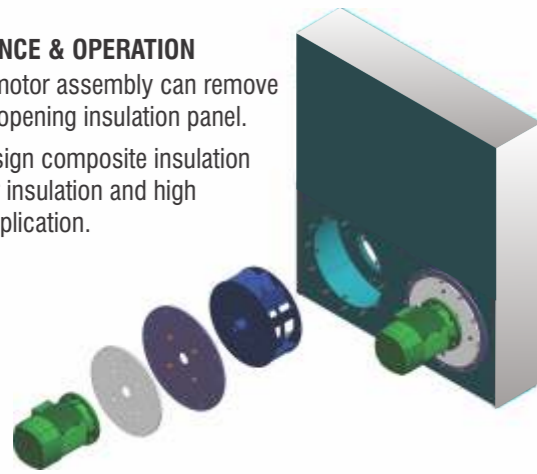


INDEPENDENT AIR FLOW SYSTEM

- Individual blowers for top & bottom jets.
- Air ratio between top and bottom jets can be controlled and adjusted easily at fingertip through touch screen at the central control unit.
- Special application for finishing TECHNICAL TEXTILES - If desired only top or bottom air can be used individually.

EASY MAINTENANCE & OPERATION

- Entire blower motor assembly can remove easily without opening insulation panel.
- Specialized design composite insulation panel for better insulation and high temperature application.



ENERGY SAVING

- Energy savings and increased production up to 8% to 15% obtained through higher efficiency of fan system arrangement as well as unique chamber insulation performance of machine compared to the traditional machines.

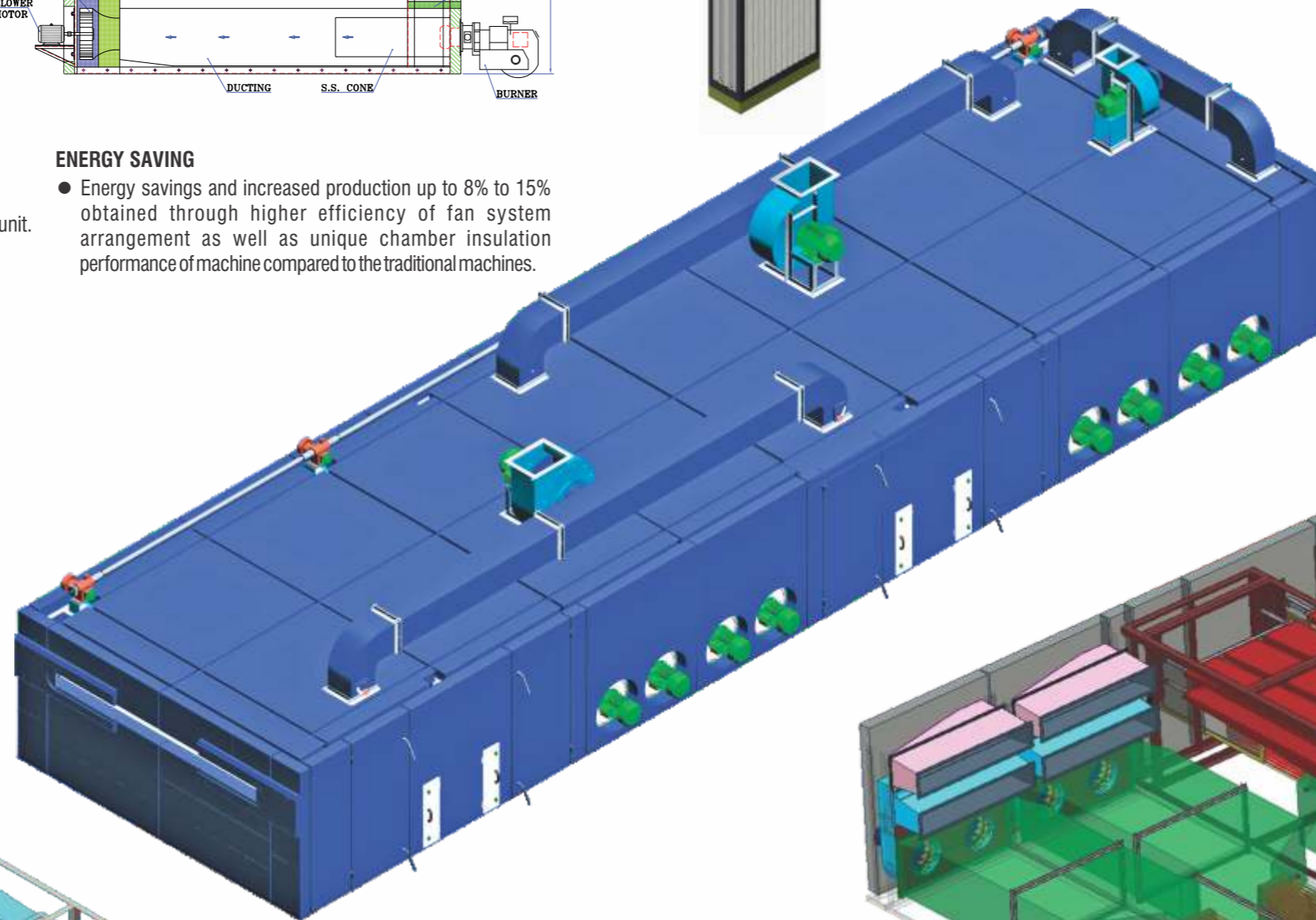
HEAT EXCHANGER MODULE OIL OR STEAM

- 1500 mm long finned type radiator with multipass arrangement of FLOW.

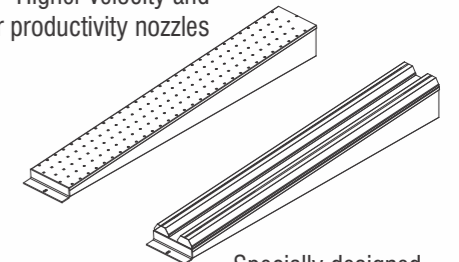


INDIVIDUAL WIDTH CONTROL

- Maintenance free width adjustment motorized spindles with directly coupled geared motor with encoder



Higher velocity and Higher productivity nozzles



Specially designed slit type nozzles for light, piled and delicate fabric



EASY MAINTENANCE & OPERATION

- Easy removable individual fingers for cleaning purpose.
- Openable covers for individual fingers

MULTIPLE FILTERS

- Online filter cleaning without stopping the machine.
- With option for one core and another fine filters net.



MULTIPLE HEATING PROVISION

Variable Heating Media :

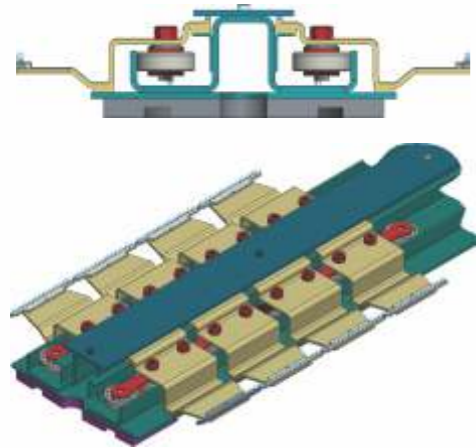
- Gas Heating- Modulating type GAS burners for better temperature control for heavy & light fabric.
- OIL Heating - Proportionate control through PLC for PNEUMATIC or MOTORIZED valves for accurate controlling.
- STEAM Heating - Heating with FINNED TUBES & condensate removal system.
- ELECTRICAL HEATING - Heating with VOLTAGE CONTROL.
- Dual Heating-combination of Steam and Gas heating system.



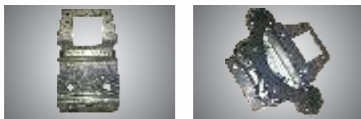
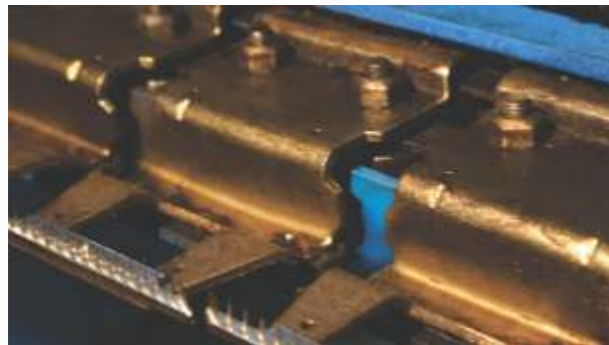
CHAIN AND CHAIN RAIL SYSTEM

Horizontal type fabric transport chain system are available depending on the fabric to be processed. Chain system is available with pin, clip or combination of pin and clip. Specially designed pin bars and clips ensure the safe handling of even most delicate fabrics. Heavy and longer pin bars are available for finishing thicker fabrics like carpets, canvas and blankets.

Model premium



- Rail & pin block from Alloy steel & clip block from aluminum with synthetic linear.
- Special design ball bearing type chain with automatic lubrication.



MAIN DRIVE SYSTEM

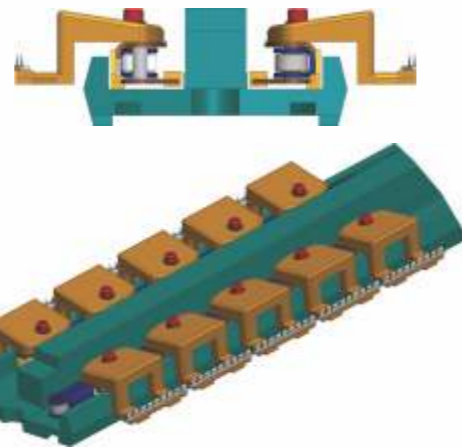


Individual drive for L.H.S. & R.H.S.

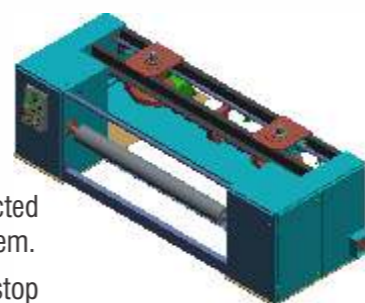
Two options are available - in standard version common drive to LHS and RHS chain, connected through shaft and bevel gears. Optionally individual drive to LHS & RHS with servo controlled system.

Exit of the machine can be with plaiting, big batching, surface batcher and center winder with non stop options of J Scray and Accumulator.

Model Quadra



- Cast iron rail with aluminum pin & clip block with Bronze linear.
- Automatic lubrication system.



Common drive for L.H.S. & R.H.S.

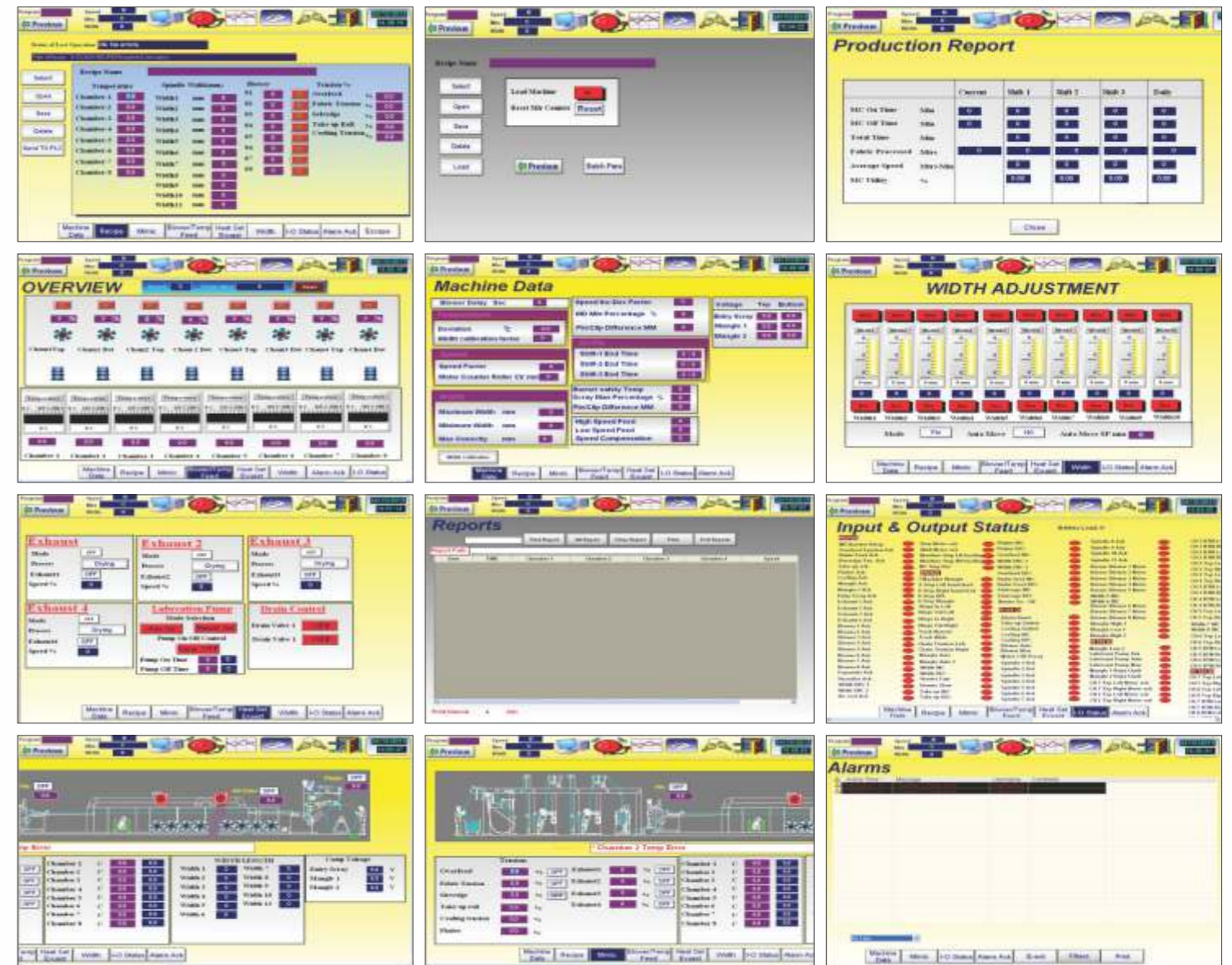
Options for cooling

- A) Cooling zone with Air Circulation.
- B) Cooling zone with Chilled Water Circulation.

AUTOMATION WITH INDUSTRIAL PC

Our **QUADRA & PREMIUM** models with complete automation comprises the following:

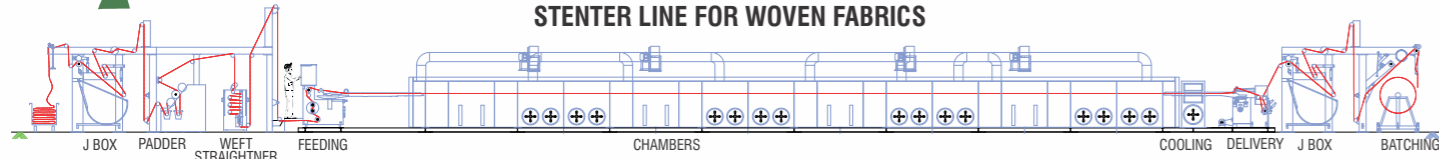
- Individual width control-geared motors with ENCODER control for width adjustment.
- AC frequency controlled drive for main Chain, Mangle, Underfeed / Overfeed, Selvage RH and LH Tension, Exhaust, all blowers, Plaiter / Batcher.
- PLC with touch screen/Industrial PC to monitor and control the process parameters.
- Software / interface on latest communication technology.
- Temperature control of each zone by PLC.
- Air flow control for top/bottom nozzles from touch screen.
- Fabric temperature sensor and dwell time controller.
- Residual moisture controller.
- Exhaust humidity controller.
- Automatic overfeed and residual shrinkage controller.
- Individual login password for different levels.
- Recipe Management with production reports on required intervals.
- Easy Alarms & Fault findings through PC .
- Team viewer connection.
- Maintenance Schedule & Records.



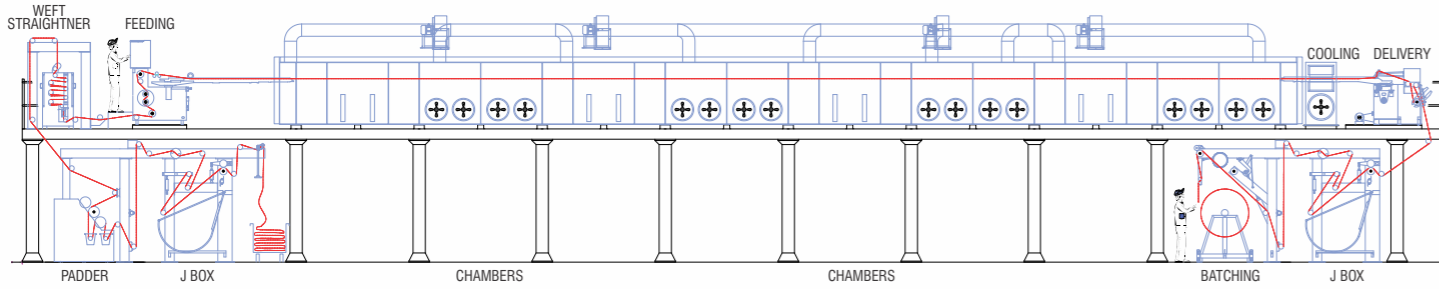


DIVERSE INSTALLATIONS IN PROCESSING TEXTILES

STENTER LINE FOR WOVEN FABRICS



STENTER LINE FOR WOVEN FABRICS ON SCAFFOLDING



STENTER LINE FOR KNITTED FABRICS

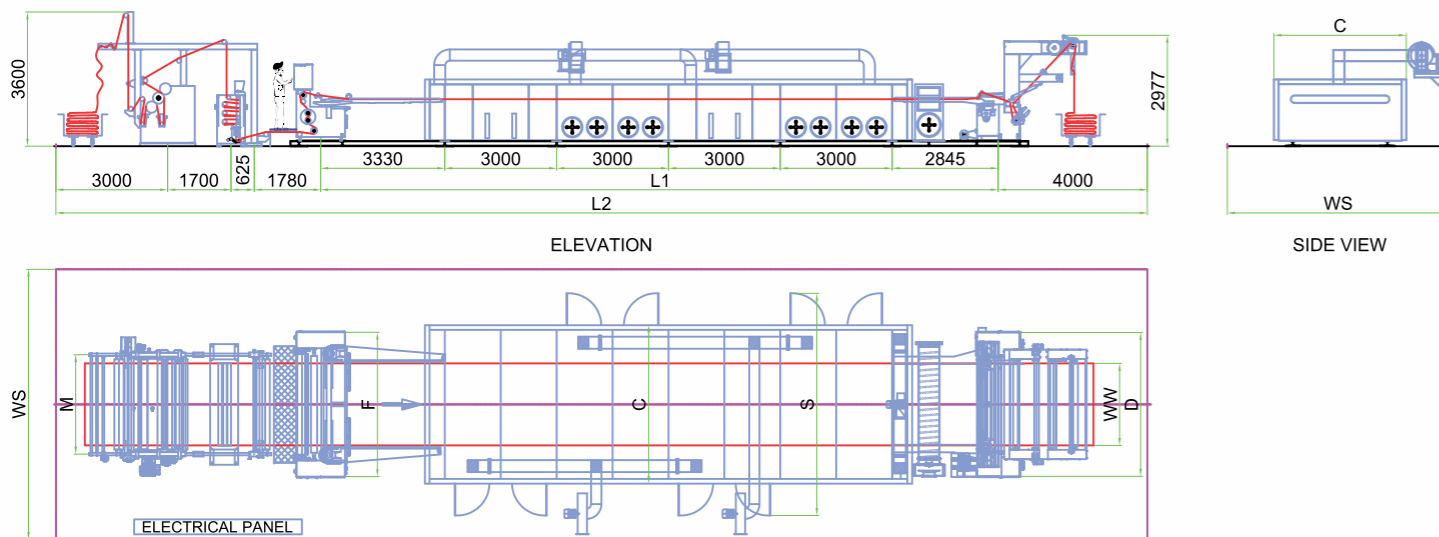
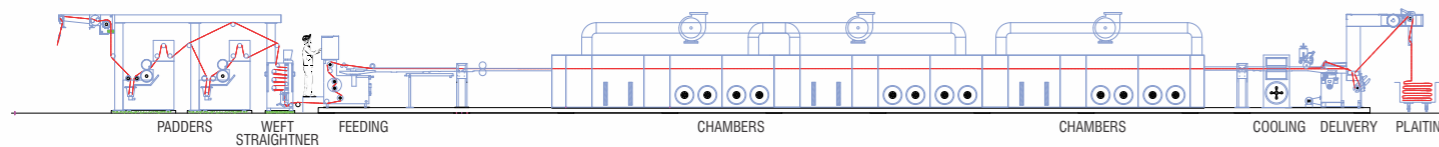


TABLE FOR WIDTHWISE DIMENTION SELECTION

WW	1200	1400	1600	1800	2000	2200	2400	2500	2600	2800	3000	3200	3300	3400	3600	4000	4200	4400
S	4,943	5,147	5,350	5,591	5,782	5,960	6,163	6,239	6,340	6,544	6,747	6,950	7,052	7,153	7,357	7,763	7,962	8,169
M	1,666	1,866	2,066	2,266	2,466	2,666	2,866	2,966	3,066	3,266	3,466	3,666	3,766	3,866	4,066	4,466	4,666	4,866
F	2,873	3,073	3,273	3,473	3,673	3,873	4,073	4,173	4,273	4,473	4,673	4,873	4,973	5,076	5,273	5,673	5,873	6,073
C	3,233	3,437	3,640	3,881	4,072	4,250	4,453	4,529	4,630	4,834	5,037	5,240	5,342	5,443	5,647	6,053	6,252	6,459
D	2,857	3,057	3,257	3,457	3,657	3,857	4,057	4,157	4,257	4,457	4,657	4,857	4,957	5,057	5,257	5,657	5,857	6,057
WS	6,443	6,647	6,850	7,091	7,282	7,460	7,663	7,739	7,840	8,044	8,247	8,450	8,552	8,653	8,857	9,263	9,462	9,669

ww = working width, aviation from 1200 mm to 4400 mm.

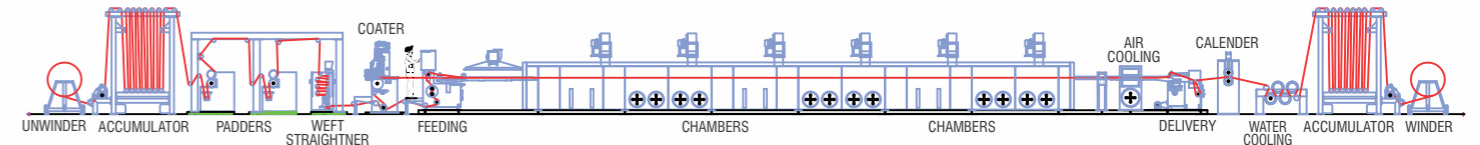
TABLE FOR LENGTHWISE DIMENTION SELECTION

No of Chambers + Ext. Tracks	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
Lenth L1	12,175	13,675	15,175	16,675	18,175	19,675	21,175	22,675	24,175	25,675	27,175	28,675	30,175	31,675	33,175	34,675	36,175
Lenth L2 in MM	23,280	24,780	26,280	27,780	29,280	30,780	32,280	33,780	35,280	36,780	38,280	39,780	41,280	42,780	44,280	45,780	47,280
Lenth L2 in Feet	76'	81'	88'	91'	96'	101'	108'	111'	116'	121'	126'	131'	135'	140'	145'	150'	155'

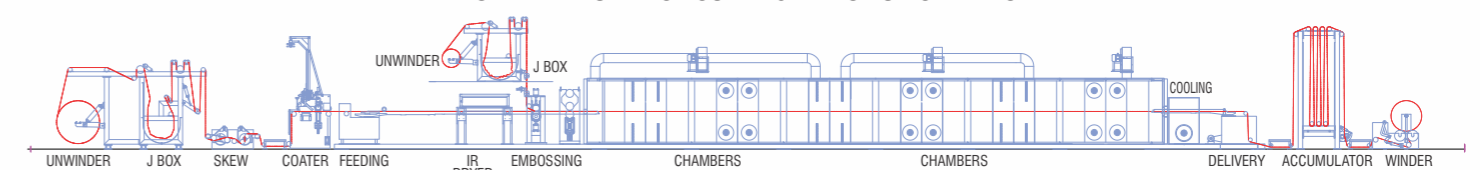
DIVERSE INSTALLATIONS IN TECHNICAL TEXTILES



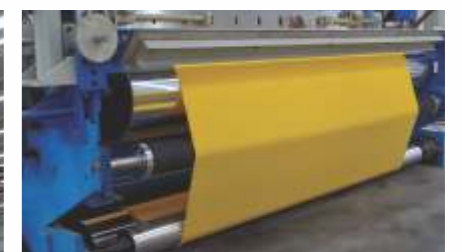
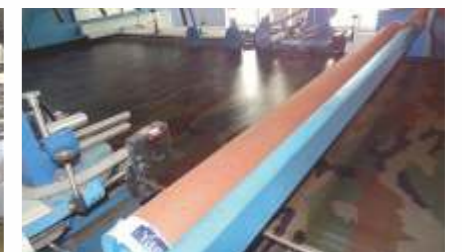
STENTER FOR FINISHING AND COATING OF WOVEN FABRICS



STENTER FOR BACK COATING LINES FOR CARPETS



MULTIPLE STENTER FOR TWO STATION COATING LINES





POPULAR WORLD OVER

PRODUCT RANGE



IRAN



INDIA



TURKEY



USA



BANGLADESH



Hot Air Stenter



Jigger



Coating Head



Singeing Machine



Drying Range



Polymeriser / Curing



Dye Pedder



Drum Dryer



Thermobonding Line



Relax Dryer



Shrinking Range



Merceriser



Denim Finishing Range



Pad steam / Washing Range



Dipping Line & Technical Textile