



PRASHANT GROUP

The

**PIONEER** ANNOUNCES INDIA'S FIRST &  
ONE OF ITS KIND SECTIONAL WARMER

**MORE  
FIRST!**



Manufactured in India  
Under Technical Collaboration  
with GAMATEX s.r.l ITALY

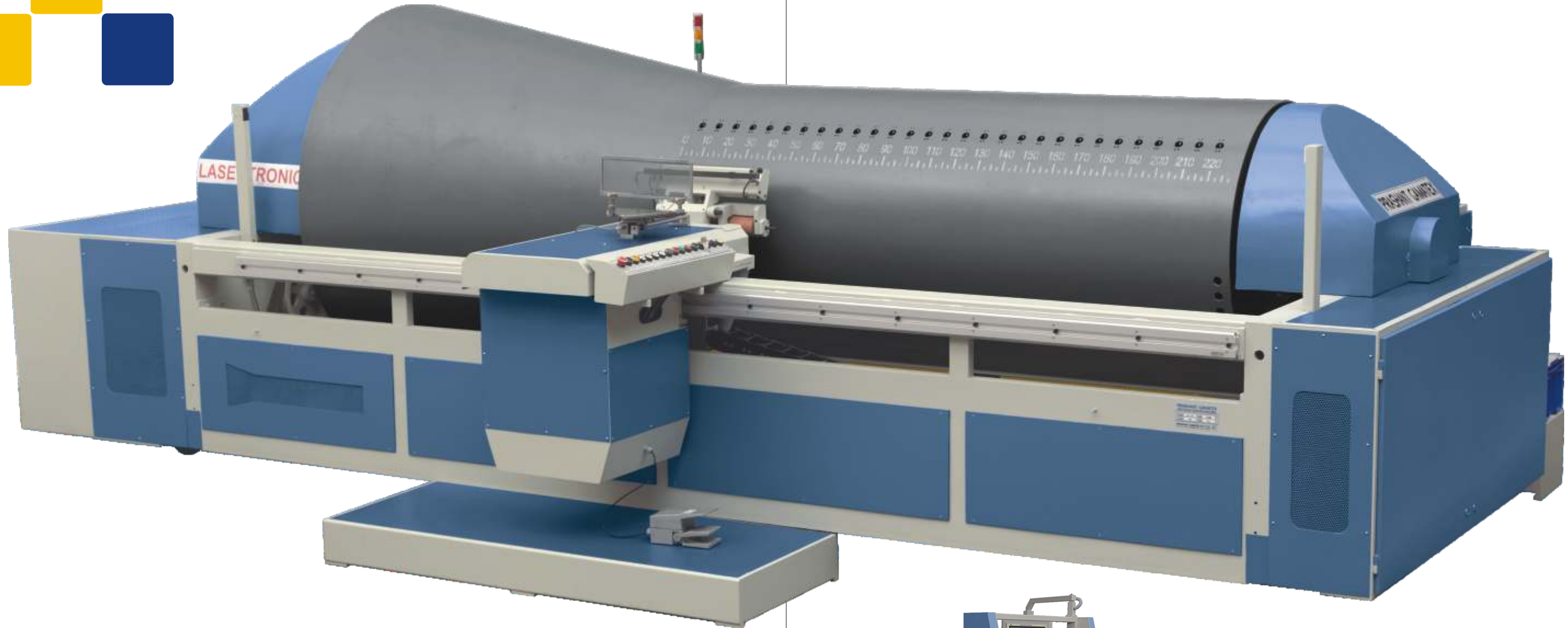


ITALY



PRASHANT GAMATEX

Excellence through Laser Technology



**Yarn Built-up through Laser Sensor**

Traverse pitch is very important factor for the Sectional Warping Machine. Standard system is to derive the traverse pitch on the basis of theoretical data, or measuring indirectly. Such system results in different levels of accuracy.

We have introduced highly accurate, online pitch measuring device. The system incorporates continuous measuring and monitoring of yarn built-up by Laser Sensor right from first section. This is a contact-less system with very high accuracy.

**Kick Back type Feeler Roller for Compact Beam**

For high precision, uniform, compact and tidy warping, feeler roll guided by pneumatic closed loop A/C servo drive is provided on warp table. This actuates controlled pressure over warp section on drum. On stopping of warping operation, the feeler roll retracts automatically so as to avoid partial abrasion on yarn. A compact package is achieved on the drum at low thread tension.



**Programmable Leasing Device**

Motorised leasing device ensures precise and smooth operation.

The device is programmed by PLC for tilting the split rod frame simultaneously for 7 lease operations. The high-tech device ensures reliability of system and ease of operation.

The lease reed mounted in leasing stand oscillates gently during warping operation to avoid continuous abrasion by yarn, ensuring longer life.



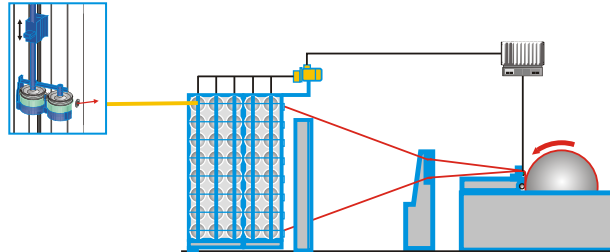
**Hydraulic Air Cooled Disc Brake**

Extremely powerful hydraulic disc brake on each side of drum and a specially designed hydraulic power pack ensures soft yet effective braking.

## Section Tension Control

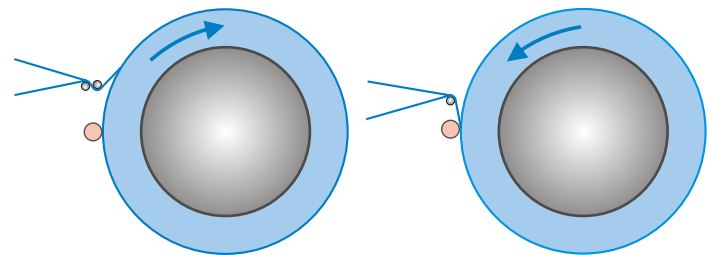
The required yarn tension in warp section is precisely set on MMI. The set value is continuously monitored by load cell which in turns gives signal to creel PLC in close loop of main machine PLC, thus regulates the yarn tension precisely. This feature guarantees unvarying thread tension at all the times, regardless of package diameter and speed.

This is an important feature required for preparing highest quality sectional warp beam for onward sizing operation.



## Reverse Drum Rotation

Reverse drum rotation makes everything easy to reach. It minimizes the distance between fix-reed to drum surface and thereby avoids yarn spreading. It simplifies the entering of 7 lease, which saves considerable time while warping.



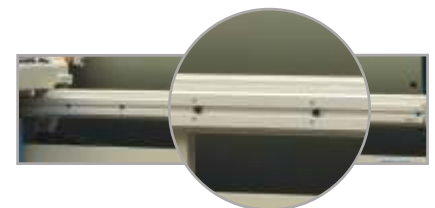
## Safety Provision

Electronic safety sensors are provided both on warping and beaming side to stop the machine if some one tries to touch the moving parts while in operation. On top of this, machine is equipped with safety bar having shut off switch. Emergency stop is also provided on headstock.



## Linear Guide

Imported linear guide made of S.S. is provided for smooth and precise movement of warp table.



## Waxing Device (Optional)

- 3 roll waxing devices with wax container tray and storage tank.
- Waxing speed is synchronized with the speed of beaming to have uniform wax throughout the length.
- Rear guide roll to maintain uniform wax contact area, irrespective of yarn diameter built-up.



## Beam Pressing device (Optional)

- Two hard chrome plated, ground finish press rolls for uniform pressure.
- Double pneumatic circuit maintains constant and even distributed load.





## Process Parameter for Simple and Safe Attendance

Intelligent Operational Panel (I.O.P) having large size (15" Touch Screen) multi-colour graphic display is provided for indicating different process parameters as well as all the messages and fault finding indications in case of machine stoppage. Complete fault finding system and its remedy along with all circuit diagrams are incorporated in I.O.P screen providing fault diagnostic clues on finger tips.



## Machine Specifications

Working Width	1800 mm to 4200 mm
Beam Flange Diameter	800/1000/1250 mm
Cone Angle	7°/ 8.5°/ 10.5°
Drum Circumference	3140 mm

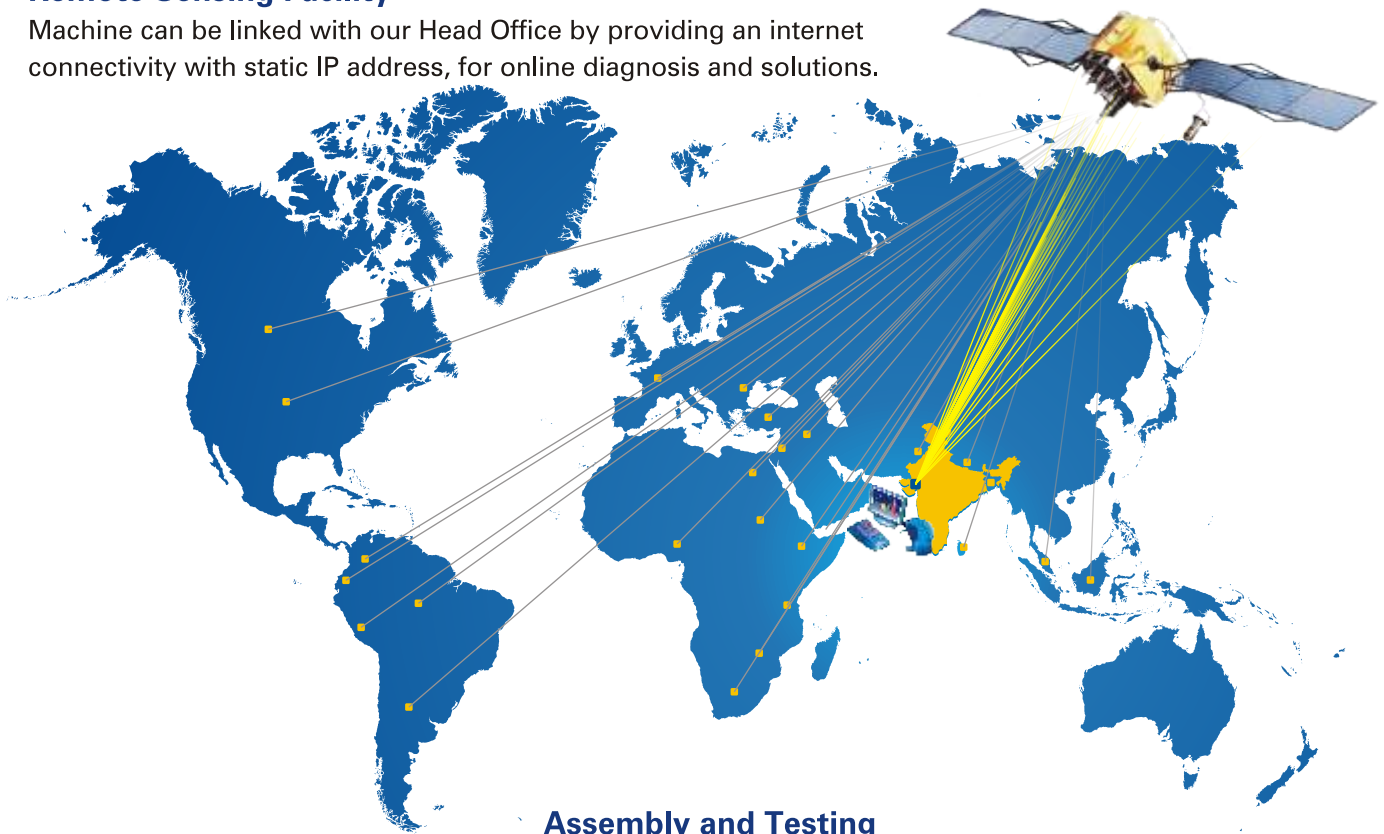
Warping Speed	0 - 800 mts/min (higher on request)
Beaming Speed	0 - 150 mts/min (higher on request)
Beaming Tension	0 - 450 Kg (higher on request)

## Salient Features

- Robust separate warping and beaming structure.
- Beaming structure movable on both the sides.
- Extremely effective air cooled hydraulic disc brakes.
- Constant beaming tension with beam oscillation function.
- Three servo systems for warp table traverse motion, warp table cross motion and machine head stock motion in synchronization with each other.
- Ball screw for high precision warping.
- Linear guide for smooth movement of under carriage.
- Handy control unit on beaming side.

## Remote Sensing Facility

Machine can be linked with our Head Office by providing an internet connectivity with static IP address, for online diagnosis and solutions.



## Assembly and Testing



## R & D Center



## PRASHANT GAMATEX

Over 1000 Installations world wide.

**Prashant Gamatex Pvt. Ltd.**

(An ISO 9001:2008 certified company)

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