



**AMRITLAKSHMI**

Where every Machine is a Commitment



**The Latest & Most Efficient  
WARPING & SIZING MACHINES  
For FILAMENT YARN  
(POLYESTER / NYLON / VISCOSE)**



The Amritlakshmi Group of Companies has been in the Textile Machinery field since 1966 when Shri K.C. Brahmachari visualized the oncoming industrialization and set up a Trading business of Textile Machinery Manufactured by several principals.

In 1970 Mr. N.K. Brahmachari joined the Agency and Trading business but after few years with sufficient "Hands on experience" incorporated in 1977 Amritlakshmi Machine Works at Umbergaon, Gujarat, India and since 1978 as a Pioneer company manufactured Weaving Preparatory Machineries. Since then AMRITLAKSHMI has been in the field of Textile Machinery Manufacturing since last 35 years and have been manufacturing:

- HIGH SPEED DIRECT WARPING MACHINES WITH CREELS OF DIFFERENT CAPACITIES.
- MULTI CYLINDER SIZING MACHINES OF DIFFERENT MODELS for SPUN and FILAMENT YARN be it 100% Cotton or its Blends like PV,PC or Viscose, Jute etc. as well as 100% Polyester whether Zero Twist, Twisted, Intermingled/ Rotoset etc. as well as different deniers of Nylon Filament Yarn.

AMRITLAKSHMI's success can be attributed to making tailor-made machines with full involvement right from "Concept to Commissioning" which has helped each Customer in being successful to produce High Quality Sized Yarn / Fabrics of all kinds.

The pre-requisite for such a success is a Controlled production on the Direct Warping & Sizing Machines with predetermined parameters, monitored and controlled by various instruments incorporated on the Warping and Sizing Machines.

It is a practice at AMRITLAKSHMI to discuss the needs of each Customer thoroughly & especially in case of new project so as to ensure that the combined experience of the AMRITLAKSHMI's Team becomes a valuable input in each & every machine meant for India or Abroad.

**Just meet us once and discuss your Weaving Project with us and You will appreciate our involvement to make your project a success!!**

### Machine assembly at factory

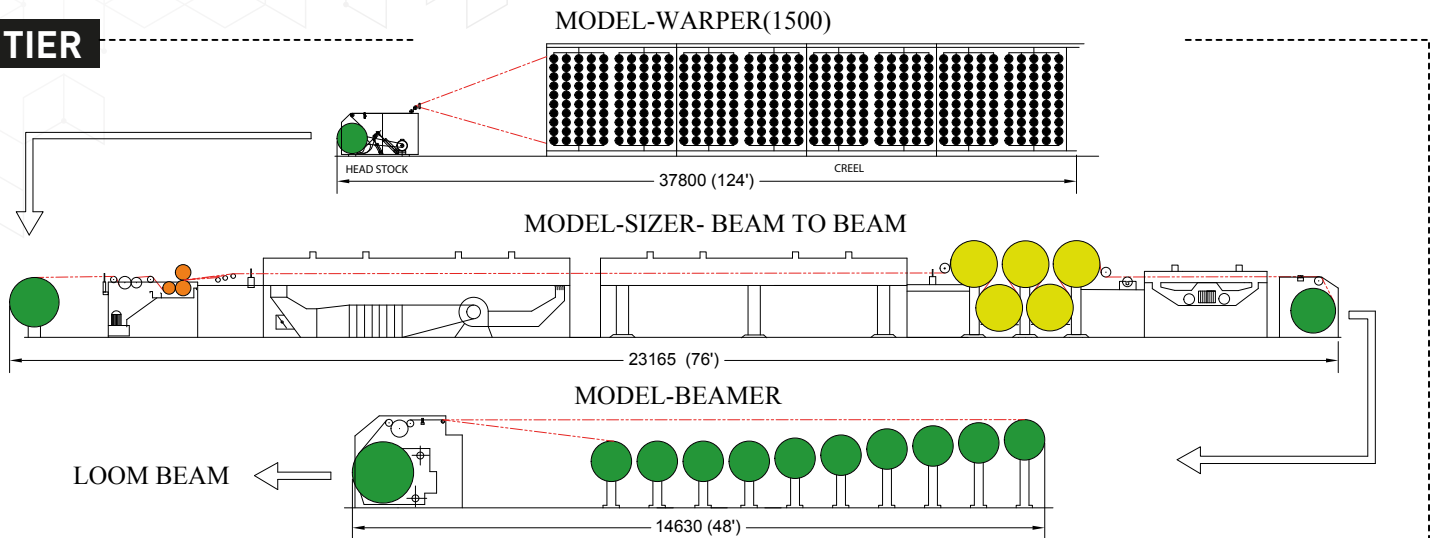


### AMRITLAKSHMI'S VERSATILE PRODUCT RANGE

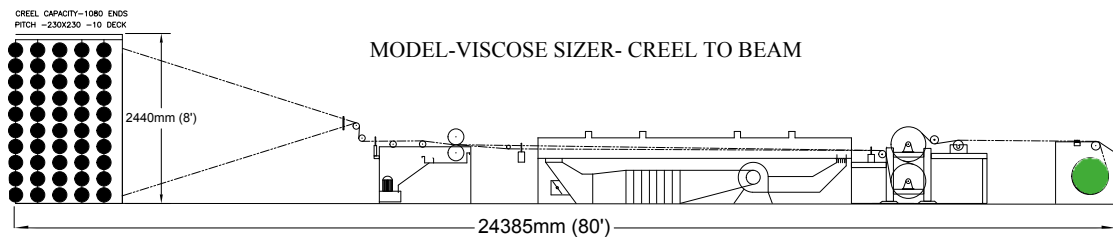
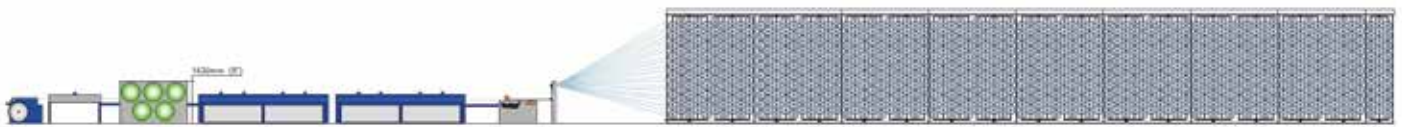
- Filament Warping, Sizing & Beaming Systems comprising of: 2 Tier (Creel to Beam System) OR
- 3 Tier (Beam to Beam System) for Continuous Filament Yarn –Polyester and Nylon Yarn with High Speeds up to 500 mpm and PLC Controlled with Full Automation with AC Invertors Vector or Servo Drives.
- Sizing Plants for Filament Viscose Yarn with High Speeds up to 150 mpm and Full Automation through PLC with AC Invertors -Vector or Servo Drives.
- Direct Warpers with Creel for Spun Yarn (Cotton / Blended, PV, PC) up to 800 mpm or more.
- High Speed, Hi Tech Sectional Warpers with Creel in Co-operation with HUAFANG, China
- Multi Cylinder Sizing Machines SINGLE SIZE BOX OR DOUBLESOW BOXES for Spun Yarn (Cotton/ Blended, PV, PC) with Speeds up to 125 mpm.
- Complete Jute Warp Preparation with Pre Beaming and Sizing Machine -PLC Controlled Drives and with Automation.
- Direct Beamer for Industrial Fabrics /Carpet/ Jute/Flex/PP/Nylon Yarn.
- Beam to Beam Rewinders for several applications for Spun Yarn or Polyester and Nylon Yarn.

# PROCESS DIAGRAM OF WARPING AND SIZING

## 3 TIER



## 2 TIER



## SPECIAL ADVANTAGES OF THE 3-TIER AMRITLAKSHMI FILAMENT SIZING MACHINE

Depending on the client's requirements, we recommend the 3-tier System which ensures:

- Versatility in sizing a wide range of deniers.
- No lost ends as all such defects are removed at the Warper level
- Higher efficiency leading to higher production on the AWS Beam-to-Beam Sizer due to minimal stoppage.
- The Amritlakshmi Warper can feed more two Amritlakshmi Beam-to-Beam Sizer.

## DIRECT WARPERS WITH EVENISER



Amritlakshmi's Hydraulically operated Direct Warper with Magazine Creel along with Yarn Eveniser to stabilize the Yarn sheet can give High Production at High Quality.

Maximum 500 meters/min for synthetic filament yarns. Available complete with powerful brakes to instantaneously stop the machine. The yarn is positively drawn from the Creel, when required, by a special device. The yarn drawn from the Creel, is perfectly aligned and fed to the head Stock for proper winding through various zones.

Capacity:  
Creel: 1200 ends up to 2400 ends  
Tensioners: Ring/Oil Type  
Pitch: 380 mm or more  
Working Width: 1700/ 1800/ 2200 /2400

Flange: 800mm up to 1250 mm  
Speeds: 500 mpm up to 700 mpm  
Drive: Inverter Driven & PLC Controlled



## HIGH SPEED FILAMENT SIZING MACHINE



Amritlakshmi's Filament High Speed Sizing Machine has Unique features which we proudly introduced in 1985 in SURAT and now offer High Speed Sizers of 300mpm and up to 450 mpm depending on Yarn & Chemicals.

The AWS Warp Sizer is designed for yarn speeds of from 150 mpm and 300 mpm up to 500 mpm mechanically. However, higher speeds are possible with special provision in the machine. For perfect sizing and to avoid tension on the yarn, special care is taken to synchronize various constituents so as to achieve uniform results at all speeds.

Capacity: Working Width: 1700/ 1800/ 2200 /2400 Speeds: 250 /300/ 450 mpm Ends: 1200 ends up to 1800 or more	Heating: Oil / Steam / Gas Drive: 4/5 Point Full PLC Controlled with Vector or Servo
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## BEAMING MACHINE



**Amritlakshmi's** Filament Yarn Beamer is a Heavy Duty High Speed rugged machine with large capacity to produce Loom Beams for any type of Loom:

Plain, Projectile, Rapier, Water Jet, Air Jet Up to 1000 rpm  
The required number of ends on the Weaver's beam are uniformly wound on the Head Stock under tension-controlled conditions with the help of a special Drive, at a speed ranging from 50 meters/min upto 200 meters/min as required.

The Head Stock is equipped with an arrangement to accommodate loom beams of various widths from **1.5 meter between flanges up to 4.00 meters or more**, if required.

A Control Panel takes care of speed setting, tension control, pre-set length counter, etc. to prepare a perfect beam with the required hardness.

Depending on the total number of ends required on the Weaver's beam, a number of Sized beams (say 8 up to 18 beams) from the AWS Head Stock are placed on the Beaming Machine Creel which is designed suitably.

Pneumatic Braking Devices or Servo Controlled Drives can be offered control the unwinding tension, depending on the yarn, number of ends etc.

Capacity: Beam Creel: 10 Beam Creel up to 18 Beam Creel Tension Control: Pneumatic Braking/ Powder Brakes or Servo Drive for each Beam. Working Width: 2200/2500/2800/3200/3600/ 4000 mm	Flange dia: 800/1000/1250m Drive: 2 Point AC Vector or Servo Speeds: 150/ 180 / 220 mpm or more
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## SIZE COOKING & STORAGE VESSELS

Generally, a combination of 1 Cooking Vessel and 2 Storage Vessels (each of 600 liters capacity) is ideal for one Sizer all made from Stainless Steel.

Capacity: 500 to 1500 liters Heating Options: With Oil Heating or Steam Heating.
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### AMRITLAKSHMI MACHINE WORKS

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