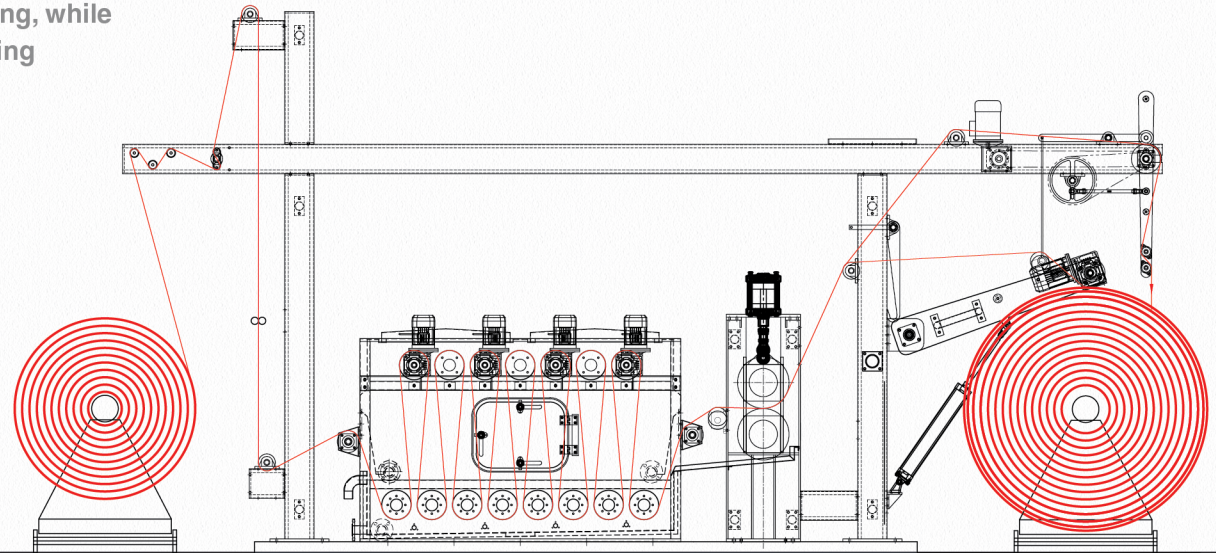




The Dhara Desizing Machine is engineered for the efficient and uniform removal of sizing materials applied during weaving, such as starch, gums, PVA, and synthetic size compounds. Designed to support modern wet-processing lines, the system ensures thorough size removal, consistent liquor penetration, and fabric-safe handling across a wide range of fabric constructions.

By enabling controlled enzymatic hydrolysis, the Dhara Desizing Machine prepares fabric for downstream processes such as scouring, bleaching, dyeing, and finishing, while minimizing chemical consumption and processing variability.



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DESIZING MACHINE

Controlled Enzymatic Desizing for Clean, Process-Ready Fabrics

Process Principle

- » Desizing is achieved by enzymatic hydrolysis, where starch-based sizes are converted into water-soluble fragments under precisely controlled temperature, concentration, and dwell time.

The Dhara system allows desizing operations to be carried out from ambient temperature up to boiling temperature, depending on enzyme formulation and fabric requirements.

Machine Construction & Design

- » Stainless Steel Desizing Tank (SS 304 / SS 316)
- » Available in open-type or fully enclosed construction
- » Optimized roller arrangement inside the tank to ensure:
 - > Uniform liquor pick-up
 - > Effective wetting for all fabric types
- » Corrosion-resistant design for long service life
- » Hygienic construction suitable for enzyme-based processing

Automation & Optional Systems

- » Automatic or Manual Chemical Dosing System (optional)
- » Chemical Preparation Tanks for enzyme & auxiliary preparation (optional)
- » Temperature regulation suitable for enzyme-specific processing
- » Integration-ready for upstream and downstream wet-processing equipment

Fabric Handling & Speed Control

- » Variable machine speed for precise control of liquor absorption and dwell time
- » Speed adjustment to suit:
 - > Light-weight fabrics
 - > Heavy woven fabrics
 - > High-size-content textiles
- » Gentle, controlled fabric transport to prevent creasing or distortion

Applications

- » Removal of starch-based and synthetic sizing agents
- » Preparation of woven fabrics prior to:
 - > Scouring
 - > Bleaching
 - > Dyeing
 - > Finishing
- » Suitable for cotton, blended fabrics, and technical woven textiles

Key Operating Features

- » Operational Speed Range: 5 – 60 m/min
- » Fabric Working Widths: 1600 mm to 3400 mm
- » Auto Steam Control for stable bath temperature
- » Simple, operator-friendly operation
- » Designed for continuous and consistent processing

Process Benefits

- » Uniform and complete size removal
- » Improved absorbency for downstream wet processes
- » Reduced chemical and water consumption
- » Enhanced fabric appearance and hand feel
- » Consistent processing results with minimal operator intervention


The Dhara Advantage


The Dhara Desizing Machine combines robust stainless steel construction, precise temperature control, and flexible process settings to deliver reliable, reproducible desizing performance. It is an ideal solution for textile processors seeking clean fabric preparation, process efficiency, and long-term operational reliability.


Dhara — Engineering Precision. Delivering Consistency.



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