



## 4 SPECIAL PURPOSE PROCESS LINE (CUSTOMISE SOLUTION)

Fully Customized Textile Processing Solutions  
for Advanced & Diverse Applications

The Dhara Special Purpose Process Line is a fully engineered, tailor-made processing system designed to meet the evolving demands of modern textile manufacturing. Developed with a modular and scalable architecture, this solution integrates multiple process stages into a unified, high-efficiency production line. From conventional fabrics to advanced technical materials, the system is engineered to deliver precision processing, consistent quality, and optimized resource utilization, ensuring superior performance across diverse industrial applications.

## Integrated Process Capabilities

Each line is configured based on specific process requirements and can include:

- » Padding / Impregnation Units
- » Continuous Washing Modules
- » Drying Systems (Vertical / Horizontal Contact Dryers)
- » Steamers (Reaction Chambers) for fixation and chemical reaction
- » Chemical Application & Dosing Systems
- » Cooling Zones
- » Fabric Opening & Guiding Systems
- » Accumulation (J-Box / Scray Units)
- » Inline Inspection & Batch Formation Systems

### Customized Multi-Stage Lines

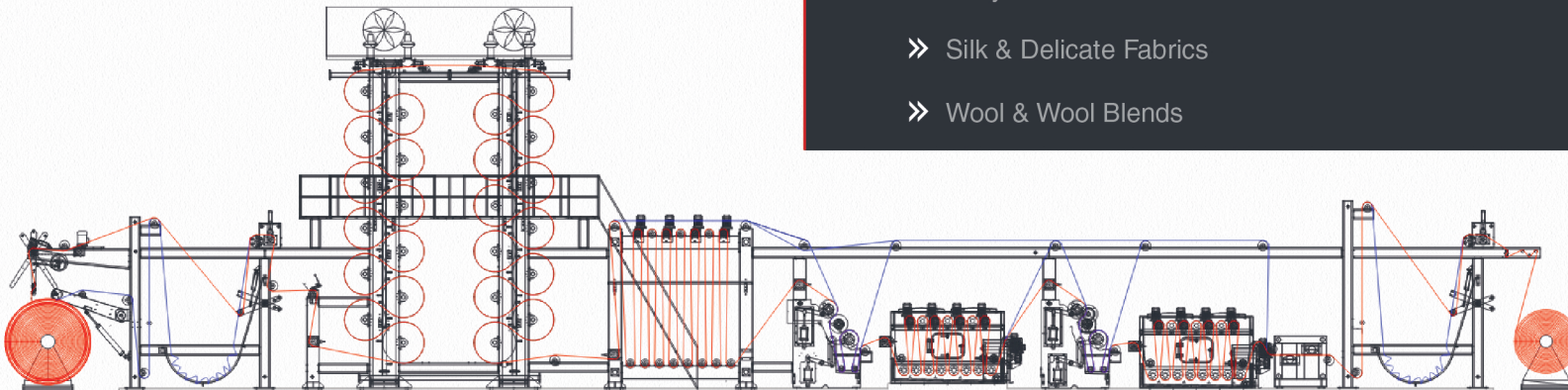
Designed as per process chemistry, dwell time, and production speed requirements

## Material Compatibility & Industry Applications

The Dhara Special Purpose Process Line is designed to handle an extensive range of textile materials and industrial fabrics:

### Textile Fabric Types

- » Woven Fabrics (Cotton, Polyester, Blends)
- » Knitted Fabrics (Single Jersey, Rib, Interlock)
- » Denim & Heavy Cotton Fabrics
- » Terry Towels & Home Textiles
- » Silk & Delicate Fabrics
- » Wool & Wool Blends



## Technical & Industrial Textiles

- » Nonwoven Fabrics (Spunbond, Meltblown, Needle-Punched)
- » Geotextiles
- » Medical & Hygiene Textiles
- » Automotive Fabrics
- » Filtration Media
- » Coated & Laminated Fabrics
- » Protective & Functional Textiles

## Specialty Materials

- » Jute & Natural Fiber Fabrics
- » Viscose & Rayon
- » Carbon Fiber & Glass Fiber Fabrics
- » Aramid (Kevlar-type) Fabrics
- » Elastic & Lycra-Based Fabrics
- » High GSM Industrial Fabrics

## Technical Specification (Indicative Range)

Parameter	Specification
Working Width	1400 mm – 4000 mm
Line Speed	5 – 150 m/min
Heating Medium	Steam / Thermal Oil / Electric
Automation Level	Semi / Fully Automatic (PLC + SCADA)
Configuration	Fully Modular
Fabric Handling	Open-width / Rope form
Operation Mode	Continuous

## Engineering & Automation Features

- » Modular design for flexible process configuration
- » PLC-controlled automation with HMI interface
- » Recipe-based operation and process repeatability
- » Closed-loop control for temperature, moisture, and chemical dosing
- » Low-tension fabric handling across all stages
- » Energy-efficient steam and water utilization

## Key Advantages

- » Fully customized to process requirements
- » Compatible with a wide range of fabrics and industries
- » High production efficiency with consistent output quality
- » Reduced energy, water, and chemical consumption
- » High production efficiency with consistent output quality
- » Future-ready system for advanced textile processing


## The Dhara Advantage


The Dhara Special Purpose Process Line represents a complete engineering approach—combining process expertise, mechanical precision, and intelligent automation to deliver high-performance, customized textile solutions for global manufacturing environments.


Dhara — Engineered for Every Fabric. Designed for Every Process.



## CONTACT

 DHARA TEXTILE MACHINERY PRIVATE LIMITED.  
PLOT NO. 4011, ROAD NO. 4B  
PHASE-4, GIDC VATVA  
AHMEDABAD – 382445  
GUJARAT, INDIA

 +91 98240 59699 (Shailesh Panchal)  
+91 97230 59699 (Jay Panchal)

 [sales@dharatextilemachinery.com](mailto:sales@dharatextilemachinery.com)  
[sales.india@dharatextilemachinery.com](mailto:sales.india@dharatextilemachinery.com)

 [dharatextilemachinery.com](http://dharatextilemachinery.com)

