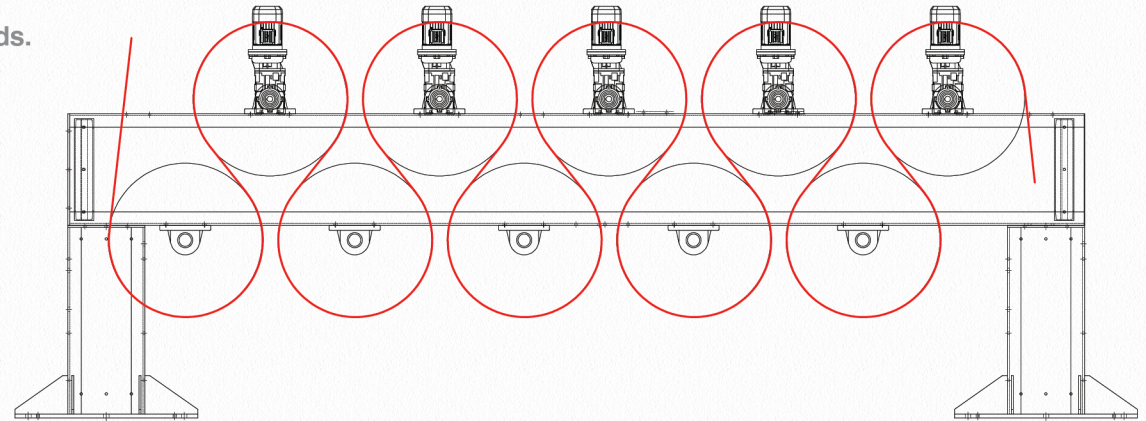




The Dhara Horizontal Drying Range Machine is engineered for high-capacity, continuous textile drying, delivering uniform heat transfer, controlled moisture evaporation, and stable fabric handling across extended drying paths. Its horizontal configuration is ideal for large-volume production lines, offering exceptional process stability, energy efficiency, and repeatable finish quality.

Designed for woven, knitted, technical, and non-woven textiles, the system ensures low-tension fabric movement, wrinkle-free passage, rapid thermal response, and consistent drying results, even at high operating speeds.



2 HORIZONTAL DRYING RANGE MACHINE

High-Performance Contact Drying
for Continuous Textile Finishing

Key Process Advantages

- » Robust industrial construction for continuous operation
- » Low steam and energy consumption
- » Fast start-up and stable thermal equilibrium
- » PLC-controlled operation with user-friendly HMI
- » Low-tension, fabric-safe transport system
- » Uniform temperature across full fabric width
- » Consistent and reproducible drying quality

Technical Specifications

- » Working Width: 1200 – 4000 mm
- » Cylinder Diameters: 400.MM | 570 mm | 760 mm | 800 mm
- » Steam Operating Pressure: Up to 6 bar (higher on request)
- » Max. Design Temperature: 165 °C
- » Production Speed: 10 – 180 m/min
- » Drying Configuration: Multi-bank horizontal cylinder arrangement
- » Machine Frame: Heavy-duty MS / SS fabricated structure
- » Cooling Cylinders:
 - › Single-shell
 - › Double-shell jacketed
 - › Spiral-flow high-efficiency type

Drive & Fabric Control System

- » Frequency-controlled geared motor drives
- » Individual or group-driven cylinder configuration
- » Precise speed synchronization across drying zones
- » Automatic compensation for fabric shrinkage
- » Controlled tension to prevent elongation and distortion
- » Low-maintenance, high-reliability mechanical design

Precision Drying Cylinders

- » Thin-walled stainless steel shells for efficient heat transfer
- » Precision balanced for minimal radial run-out
- » High-quality welding and surface finishing
- » Optional surface belt grinding for enhanced fabric contact
- » Optional Teflon coating for non-stick operation and easy cleaning

Applications

- » Woven and knitted fabrics
- » Technical and industrial textiles
- » Non-wovens and filament materials
- » High-throughput continuous finishing lines

Configuration & Integration

- » Modular horizontal layout with configurable drying length
- » Single-sided or double-sided contact drying
- » Selective zone shut-off for energy optimization
- » Integrated or standalone cooling sections
- » Feeding units with batching, plaiting, or surface winding
- » Exhaust hood with axial fan or insulated enclosure
- » Seamless integration with padding mangles and finishing lines

Steam & Moisture Control

- » Zoned steam pressure regulation for optimized drying profiles
- » Centralized steam distribution for thermal stability
- » Inline residual moisture sensors for real-time monitoring
- » Automatic steam modulation to prevent over-drying
- » Closed-loop PLC control for consistent fabric quality


The Dhara Advantage


A future-ready drying solution combining precision engineering, intelligent automation, and industrial durability, the Dhara Horizontal Drying Range Machine delivers maximum throughput, energy efficiency, and consistent finish quality for modern textile manufacturers.


Dhara — Engineering Precision. Delivering Performance.



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