



Core Functions

- » Continuous liquor filtration and circulation
- » Automatic filter cleaning without production stoppage
- » Precise chemical dosing and concentration control
- » Closed-loop operation to minimize waste and losses
- » Stable liquor temperature management

18 AUTOMATIC CLEANING FILTER & CIRCULATION SYSTEM

Intelligent Liquor Management for Consistent Textile Processing

The Dhara Automatic Cleaning Filter & Circulation System is a PLC-controlled rotary filtration and liquor circulation solution designed to ensure uniform chemical application, stable process conditions, and optimized resource utilization in textile finishing operations.

Engineered for padding mangles, dye tanks, and technical textile processes, the system maintains continuous liquor cleanliness through automatic filtration and self-cleaning cycles, eliminating manual intervention and process variability.

Key Features PLC-Controlled Automation

- » Pre-set operation and cleaning sequences
- » Fully automatic backflushing and filter regeneration
- » Operator-independent, repeatable performance

Precision Chemical Dosing

- » Integrated dosing system for accurate chemical application
- » Maintains consistent liquor composition
- » Reduces over-dosing and chemical consumption

Efficient Circulation Design

- » Continuous recirculation prevents sedimentation
- » Uniform liquor concentration at the point of application
- » Improved fabric-to-fabric consistency

Industrial-Grade Construction

- » Chemical-resistant circulation pumps
- » SS 316L piping and all wetted components
- » Fine mesh rotary filters for effective impurity removal
- » Optional heat exchanger for temperature stabilization

Integration & Retrofit Capability

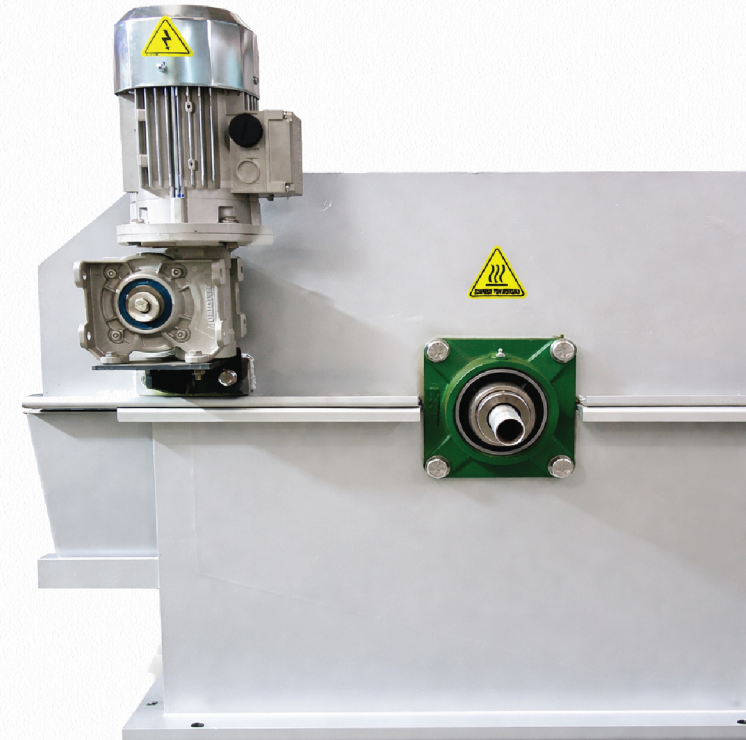
- » Can be supplied as a standalone unit or retrofitted to existing machines
- » Compatible with existing padding mangles, dye tanks, and application systems
- » Custom mechanical and control interfaces for seamless integration
- » Upgrade efficiency and sustainability without replacing installed equipment

Applications

- » Padding mangles, Dry Tanks
- » Continuous finishing and coating lines
- » Chemical application systems
- » Technical textile processing equipment

Process & Sustainability Benefits

- » Reduced chemical wastage and liquor spillage
- » Lower effluent generation
- » Improved energy efficiency through stable thermal control
- » Reduced downtime and maintenance effort
- » Lower overall operating costs




Quality Assurance


The Dhara Automatic Cleaning Filter & Circulation System combines automation intelligence, chemical precision, and industrial reliability to deliver consistent process control and measurable cost savings.


Dhara — Intelligent Filtration. Controlled Circulation. Consistent Results.



CONTACT

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