

Yarn Dyeing Machine for Textile Industry

This yarn dyeing machine is designed for dyeing yarn, thread, and fiber. It utilizes a stainless steel centrifugal pump with mechanical seal and controlled by inverter.



ADDITIONAL IMAGES



Overview



Stainless steel dyeing vessels with integrated pumps and automation systems.

Industrial Yarn Dyeing System

This high-performance yarn dyeing machine is engineered for the uniform and efficient processing of yarn, thread, and fiber in textile manufacturing environments. Constructed with high-quality corrosion-resistant stainless steel, the system ensures durability and consistent dye penetration through advanced centrifugal pumping and automated flow reversal. It features an integrated microprocessor-controlled cabinet for precise management of temperature, pressure, and fluid circulation, maximizing productivity for high-volume operations.

Technical Specifications

Operating Pressure

0.45 Mpa

Design Pressure

0.4 Mpa

Max Working Pressure

Operating Temperature

140 °C

Design Temperature

135 °C

Max Working Temperature

Performance

Standard Cycle Rates

Process	Duration
Heating (20°C to 130°C)	~30 minutes
Cooling (130°C to 80°C)	~20 minutes

Equipment Features

Included Components

- Stainless steel centrifugal pump with inverter control
- Package carrier system
- Rapid kier lid opening with safety interlock
- Auto-control flow reversal device
- External heat exchanger
- Addition tank with dosing device
- Precision level sensor

Compliance & Standards

Certifications	CE, ISO
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