

# 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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