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ARMAS

TEXTILE MACHINERY

ATMOSPHERIC JIGGER

Open-Width Fabric Dyeing Machine

Reliable performance, precise control, efficient production.



PRODUCT CATALOGUE

- Single-Motor Design
- Precise Tension Control
- Low Maintenance Requirements
- Operator-Friendly Operation
- PLC & HMI Control

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GENERAL OVERVIEW



ATMOSPHERIC JIGGER

The Armas Atmospheric Jigger is designed for the dyeing, washing and pretreatment process of open-width woven fabrics. Its reliable performance, precise control system and operator-friendly operation improve efficiency throughout the production process.

APPLICATIONS

Ideal for the dyeing, washing and pretreatment process of open-width woven fabrics.

Delivers stable, high-quality results across a wide range of woven fabric types.

PROCESS PURPOSE

The machine processes the fabric under controlled tension, with uniform winding and stable speed.

This helps preserve the fabric structure throughout the process while supporting shade uniformity and repeatable production quality.

THE ARMAS APPROACH

Through robust engineering, high-quality materials and user-focused solutions, we deliver durable, reliable and cost-efficient machinery.

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KEY ADVANTAGES

Manage your production more efficiently, safely and precisely with the ARMAS Atmospheric Jigger.



1 Single-Motor Design

2 PLC & HMI Control System

3 Precise Tension Control

4 Operator-Friendly Operation

5 Low Maintenance Requirements

6 Efficient Process Management

1 Single-Motor Design

The simplified drive system reduces mechanical complexity, supports stable operation and minimises maintenance requirements.

2 PLC & HMI-Controlled System

The PLC-based control system enables all process stages to be managed precisely and reliably.

3 Precise Tension Control

Fabric tension is continuously monitored by precision sensors and maintained at the optimum level.

4 Operator-Friendly Operation

The ergonomic design and intuitive interface ensure easy and safe operation.

5 Low Maintenance Requirements

High-quality components and intelligent engineering help minimise maintenance requirements.

6 Efficient Process Management

Optimised process control supports efficient resource use and improved production efficiency

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SINGLE-MOTOR DESIGN



The single-motor design of the Armas Atmospheric Jigger simplifies the mechanical system, supporting controlled, simple and efficient operation.
This design facilitates maintenance, reduces mechanical complexity and supports stable long-term machine operation.

SIMPLIFIED MECHANICAL STRUCTURE

Reduced mechanical complexity makes the system more compact, easier to understand and easier to manage.

LOWER MAINTENANCE REQUIREMENTS

The simplified drive system facilitates maintenance and supports greater operational continuity.

EFFICIENT DRIVE CONTROL

The single-motor configuration supports controlled and stable fabric movement.

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PLC-CONTROLLED PROCESS MANAGEMENT

PLC & HMI Control with Precise Tension Management

Thanks to the PLC-based control system, the machine's main operating parameters are managed reliably and consistently.

The operator can easily monitor speed, temperature, number of passes, process steps and operating settings through the HMI screen.

Precise tension control helps the fabric travel evenly throughout the process. This helps maintain fabric form, winding stability and repeatable production quality.





RECIPE AND PARAMETER CONTROL

Process settings can be easily monitored and managed through the HMI.

STABLE FABRIC MOVEMENT

Controlled fabric tension supports smooth and uniform fabric flow.

REPEATABLE PROCESS QUALITY

Supports more consistent production results under identical process conditions.

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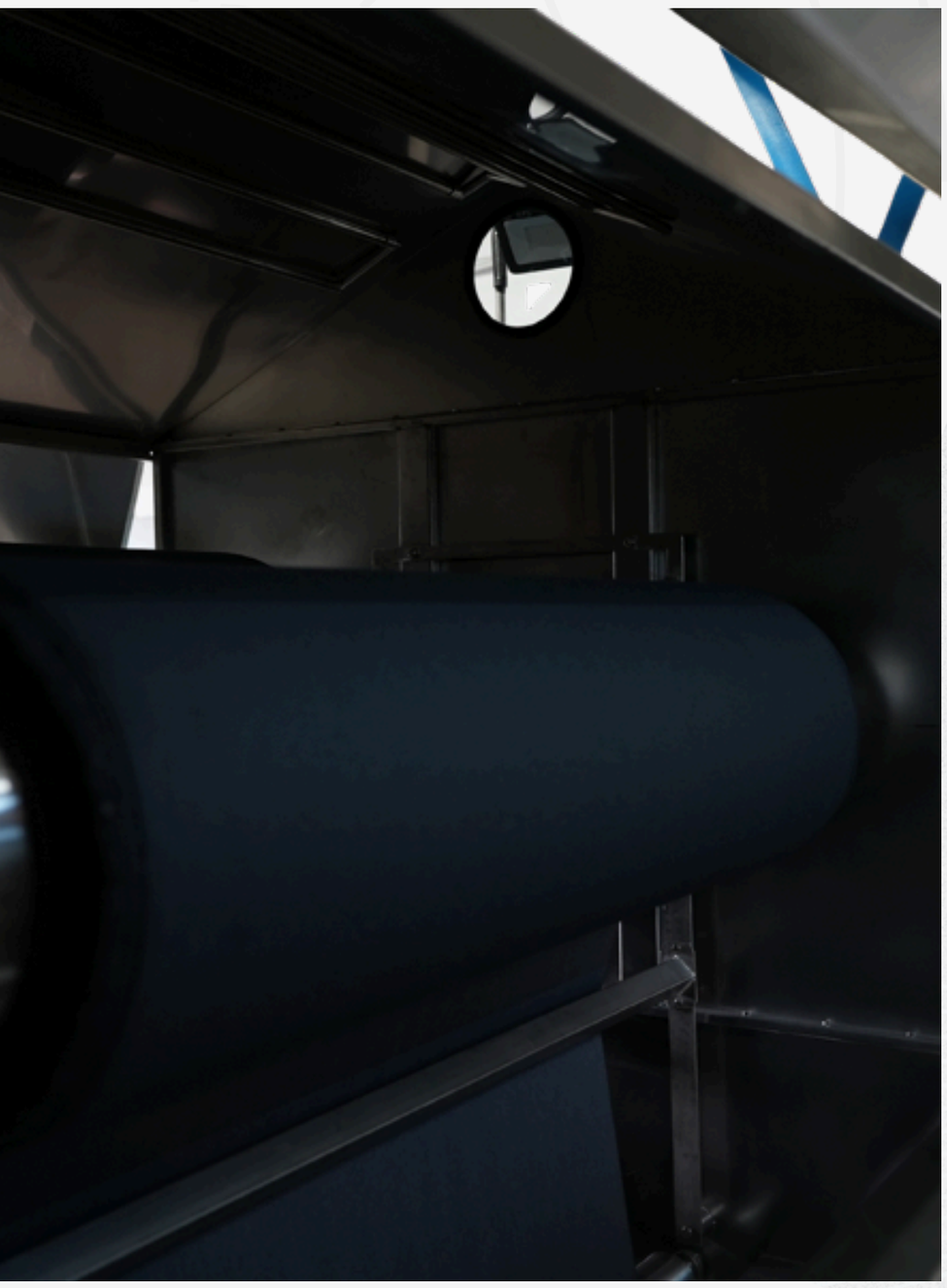
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USER-CENTRED DESIGN

Operator-Friendly Operation & Low Maintenance Requirements

The Armas Atmospheric Jigger is designed with a simple, accessible and user-focused structure, enabling the operator to manage the machine easily and monitor daily production processes more comfortably.
Its accessible mechanical layout, straightforward control system and maintenance-friendly design improve ease of use while making maintenance procedures more practical and efficient.





ERGONOMIC ACCESS

Provides easy access to the fabric path, control panel and critical operating areas.

SIMPLIFIED CONTROL SYSTEM

The user-friendly interface enables fast and easy management of essential process settings.

LOW MAINTENANCE REQUIREMENTS

The simplified mechanical structure and accessible component layout help reduce maintenance requirements.

FAST SERVICE ACCESS

Easy access to maintenance and inspection points helps shorten service times.

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STABLE & EFFICIENT PRODUCTION

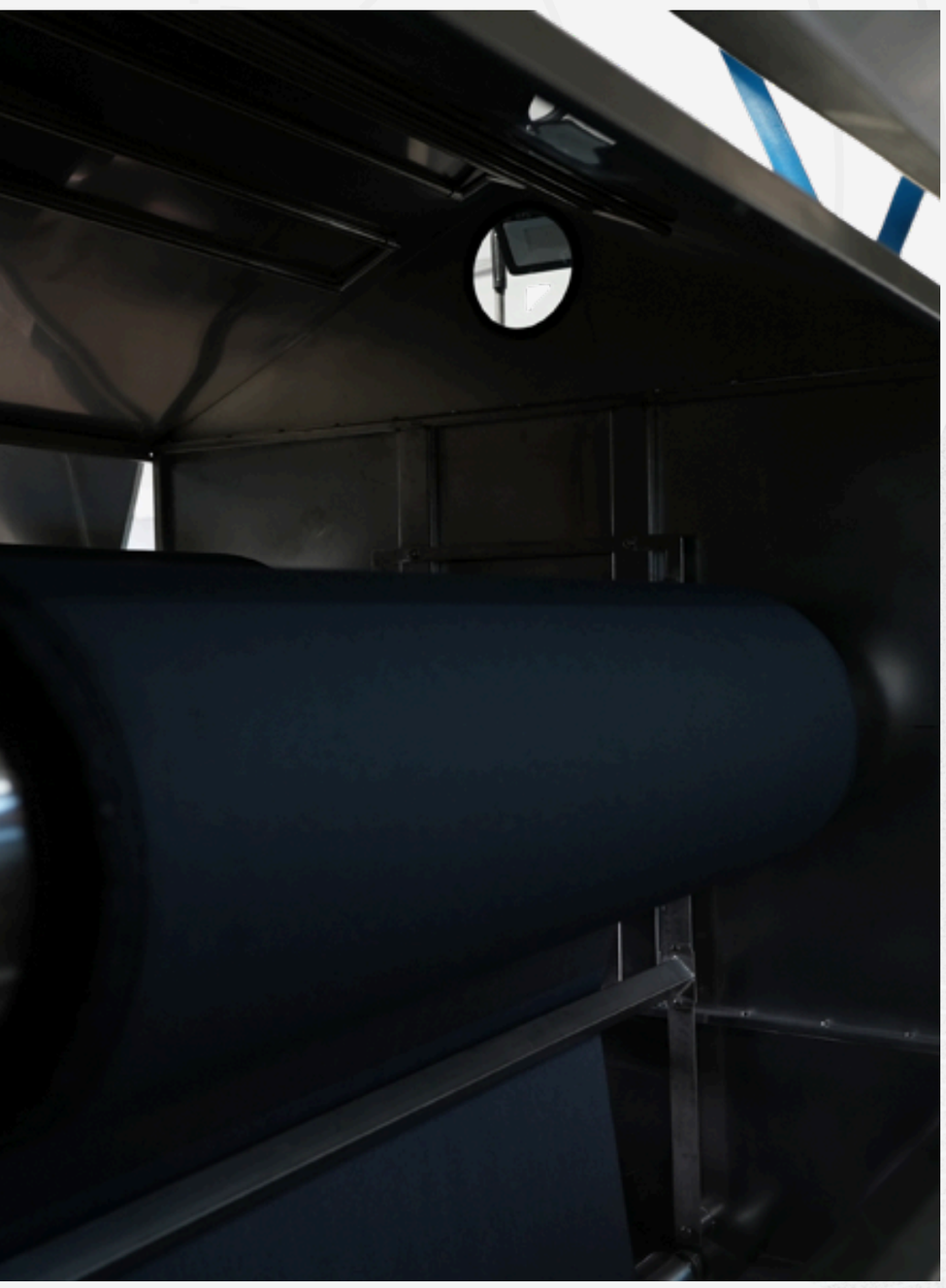
Efficient Process Management

More stable, repeatable and efficient production through controlled process flow.

The Armas Atmospheric Jigger supports greater process control through its PLC-based control system through its PLC-based control system, precise tension management and stable fabric movement.

Consistent process management helps reduce operator intervention, improves the repeatability of production quality and enables more efficient use of resources.





CONTROLLED PROCESS FLOW

Key process parameters such as speed, temperature, number of passages and tension are managed in a controlled manner.

REPEATABLE QUALITY

Supports more consistent production results under identical process conditions.

EFFICIENT RESOURCE UTILISATION

Supports more controlled use of water, steam, chemicals and production time.

PRODUCTION CONTINUITY

Stable operation simplifies process monitoring and supports uninterrupted production.

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TECHNICAL SPECIFICATIONS

MACHINE TYPE	Atmospheric Open-Width Jigger Dyeing Machine
APPLICATION	Dyeing, washing and processing of open-width woven fabrics.
FABRIC TYPES	Cotton, viscose, linen and similar cellulosic open-width woven fabrics.
WORKING WIDTH	1800-3400 mm. Configurable upon request.
MAXIMUM OPERATING TEMPERATURE	98 °C
MAXIMUM FABRIC ROLL DIAMETER	1400 mm
FRAME CONSTRUCTION & PROCESS CONTACT SURFACES	Heavy-duty industrial frame construction with stainless-steel surfaces suitable for process conditions.
OPTIONAL FEATURES	Engineered according to customer requirements.

OPTIONS

- Machine specifications can be engineered according to customer requirements, fabric type, process needs and production capacity.
- Working width, roller width, automation level and auxiliary systems can be configured on a project-specific basis.
- Additional components and systems can be integrated as required.

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Reliable, efficient and sustainable solutions in textile dyeing technology. Armas Makina.



Contact us to learn more about our Atmospheric Jigger solutions.

Visit our website for more information.

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PRODUCT RANGE

- Atmospheric Jiggers
- HT Jiggers
- Open-Width Washing Systems