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ARMAS
TEXTILE MACHINERY

HIGH TEMPERATURE JIGGER

High-Temperature – High-Pressure Open-Width Woven Fabric Dyeing Machine

Reliable performance, precise control, efficient production.



PRODUCT CATALOGUE

- Pressurized Vessel
- Precise Tension Control
- Low Maintenance Requirements
- Operator-Friendly Operation
- PLC & HMI Control

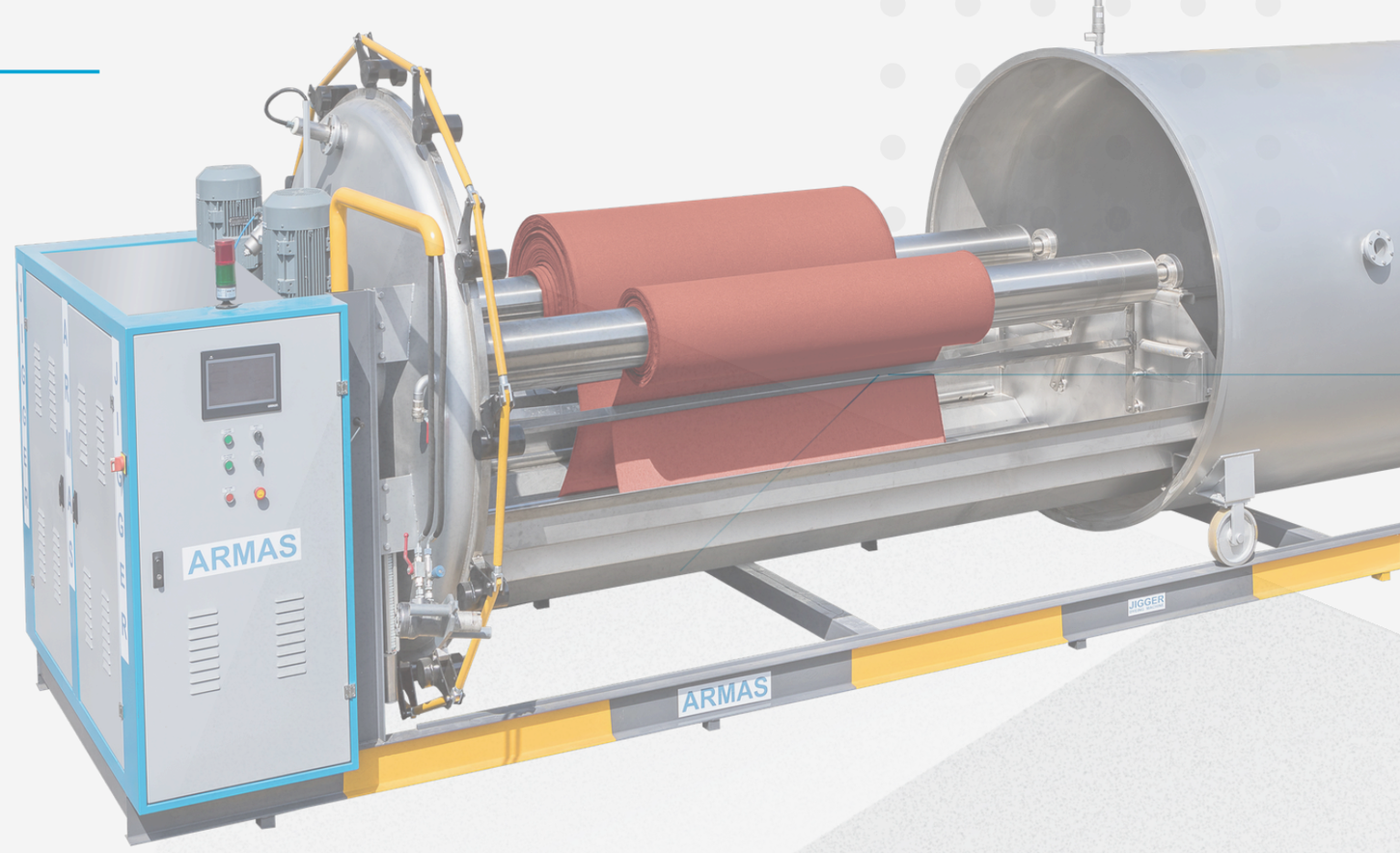
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GENERAL OVERVIEW

HT JIGGER

The Armas HT Jigger is designed for dyeing, washing and processing open-width woven fabrics under high temperature and pressure conditions. Its pressurized vessel, precise control system and operator-friendly design provide stable, controlled and repeatable production performance.



APPLICATION AREAS

Developed for high-temperature dyeing, washing and processing of open-width woven fabrics. It provides stable and high-quality process results, particularly for synthetic and blended woven fabrics.

PROCESS OBJECTIVE

The machine processes the fabric with controlled tension, balanced winding and stable fabric speed. This helps maintain fabric structure and dimensional stability while supporting uniform coloration and repeatable production quality throughout the process.

ARMAS APPROACH

We deliver durable, reliable and efficient machinery through quality materials, robust engineering and user-focused solutions.

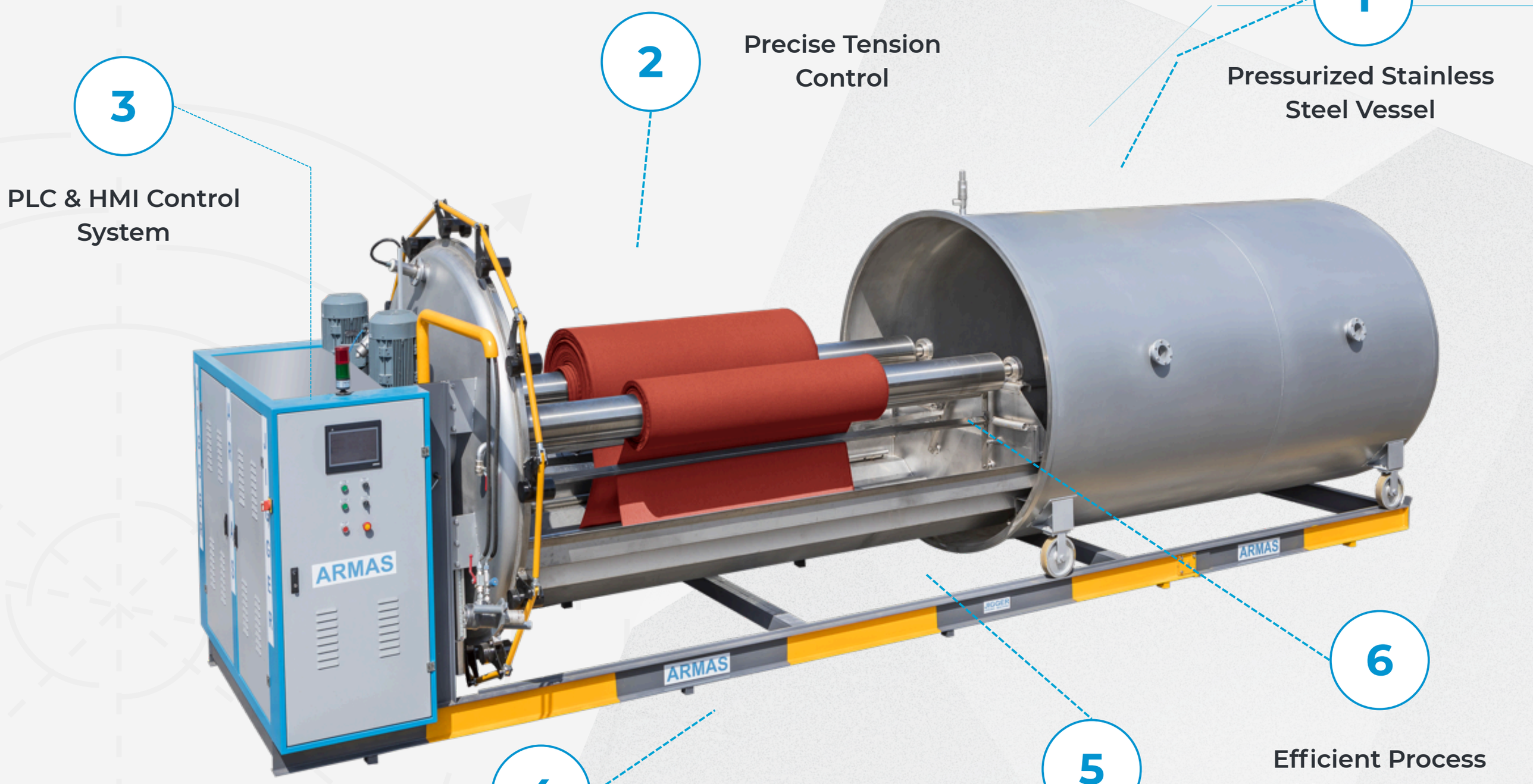
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KEY ADVANTAGES

Manage your open-width woven fabric processes with greater efficiency, safety and control using the ARMAS HT Jigger.



1 Pressurized Stainless Steel Vessel

Durable vessel construction designed for high-temperature operation and pressures up to 3 bar.

2 Precise Tension Control

Fabric tension is continuously controlled to support stable and balanced fabric movement.

3 PLC & HMI Control System

The PLC-based control system enables precise and reliable management of the entire process.

4 Operator-Friendly Operation

Ergonomic design and an intuitive interface provide easy and safe machine operation.

5 Low Maintenance Requirements

Quality components and a simplified machine structure help minimize maintenance requirements.

6 Efficient Process Management

Controlled management of temperature, speed, time and tension contributes to improved production efficiency.

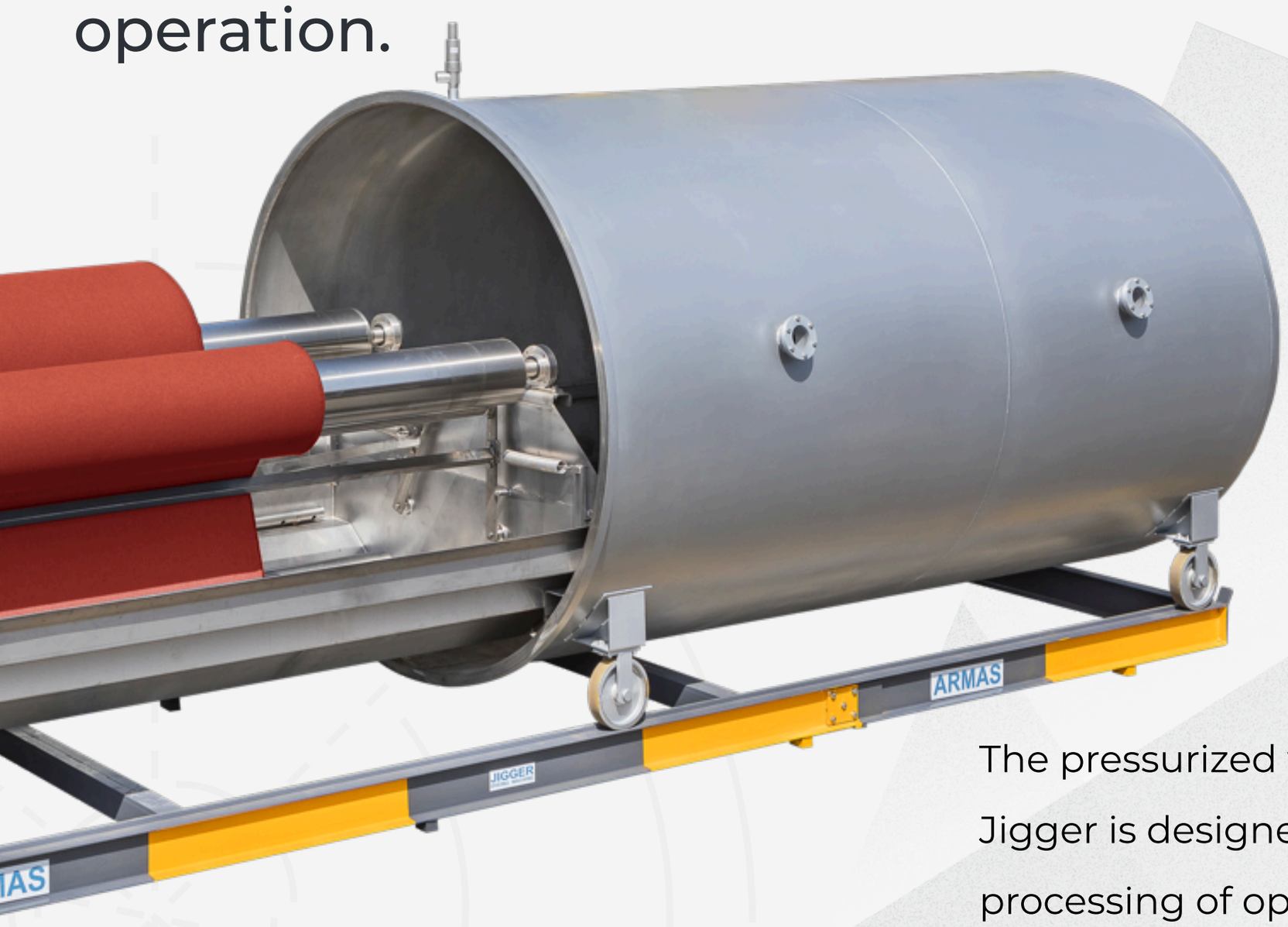
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PRESSURIZED VESSEL TECHNOLOGY

Safer processing, high-temperature resistance and stable operation.



The pressurized vessel technology of the Armas HT Jigger is designed to ensure safe and controlled processing of open-width woven fabrics under high temperature and pressure conditions. The robust locking system integrated into the durable stainless steel vessel helps keep the machine securely closed throughout the pressurized process. Its strong mechanical locking structure prioritizes process safety under demanding temperature and pressure conditions, providing a reliable working environment for the operator.

SAFE LOCKING SYSTEM

The robust mechanical locking system helps keep the vessel securely closed throughout the pressurized process.

140 °C OPERATING TEMPERATURE

Provides the high-temperature operating range required for synthetic woven fabric processes.

3 Bar OPERATING PRESSURE

The durable pressurized vessel supports safe and stable operation under high-temperature conditions.

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PLC-CONTROLLED PROCESS MANAGEMENT

Precise Tension Control & PLC & HMI Control System

Precise tension control supports smooth movement of the open-width woven fabric throughout the process. This helps maintain fabric structure, winding stability and repeatable production quality.

The PLC-based control system enables reliable and consistent management of the machine's main operating parameters. The operator can easily monitor and manage fabric speed, temperature, number of passes, process steps and operating parameters through the HMI.





RECIPE & PARAMETER CONTROL

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

STABLE FABRIC MOVEMENT

Controlled fabric tension supports balanced and stable movement throughout the process.

REPEATABLE PROCESS QUALITY

Supports more consistent production results under identical process conditions.

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USER-FOCUSED DESIGN



Operator-Friendly Operation & Low Maintenance Requirements

The Armas HT Jigger is designed with a simple, accessible and user-focused structure, enabling operators to manage the machine easily and monitor daily production processes efficiently. Accessible mechanical components, a straightforward control system and maintenance-friendly engineering improve ease of operation while helping make maintenance procedures faster, simpler and more cost-efficient.



ERGONOMIC ACCESS

Easy access to the fabric path, control panel and critical operating areas of the machine.

SIMPLE CONTROL SYSTEM

The intuitive interface enables quick and easy management of essential process parameters.

LOW MAINTENANCE REQUIREMENTS

Simplified mechanical design and accessible component layout help reduce maintenance needs.

FAST SERVICE ACCESS

Easy access to maintenance and inspection points helps reduce service intervention time.

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STABLE & EFFICIENT PRODUCTION

Efficient Process Management

A more stable, repeatable and efficient production process through controlled operation.

The Armas HT Jigger combines PLC-based control, precise tension management and stable woven fabric movement to support greater process control. Consistent process management helps reduce operator intervention, improve repeatability and optimize the use of production resources.



CONTROLLED PROCESS FLOW

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

EFFICIENT RESOURCE UTILIZATION

Controlled management of water, steam, chemicals and process time supports efficient resource use.

PRODUCTION CONTINUITY

Stable machine operation simplifies process monitoring and supports continuous production.

REPEATABLE QUALITY

Consistent process conditions support more uniform and repeatable production results.

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TECHNICAL SPECIFICATIONS

MACHINE TYPE	HT (High Temperature – High Pressure) Open-Width Woven Fabric Jigger Dyeing Machine
APPLICATION	Dyeing, washing and processing of open-width woven fabrics
FABRIC GROUP	Polyester, nylon, microfiber and similar synthetic or blended open-width woven fabrics
WORKING WIDTH	1800 mm – 3400 mm. Configurable according to project requirements
MAX. OPERATING TEMPERATURE	140 °C
MAX. OPERATING PRESSURE	3 Bar
MAX. FABRIC ROLL DIAMETER	Ø 1150 mm / Ø 1400 mm. Configurable according to project requirements
VESSEL CONSTRUCTION & CONTACT SURFACES	Pressurized stainless steel vessel and stainless steel contact surfaces suitable for process conditions
OPTIONAL FEATURES	Can be engineered according to customer requirements

OPTIONS

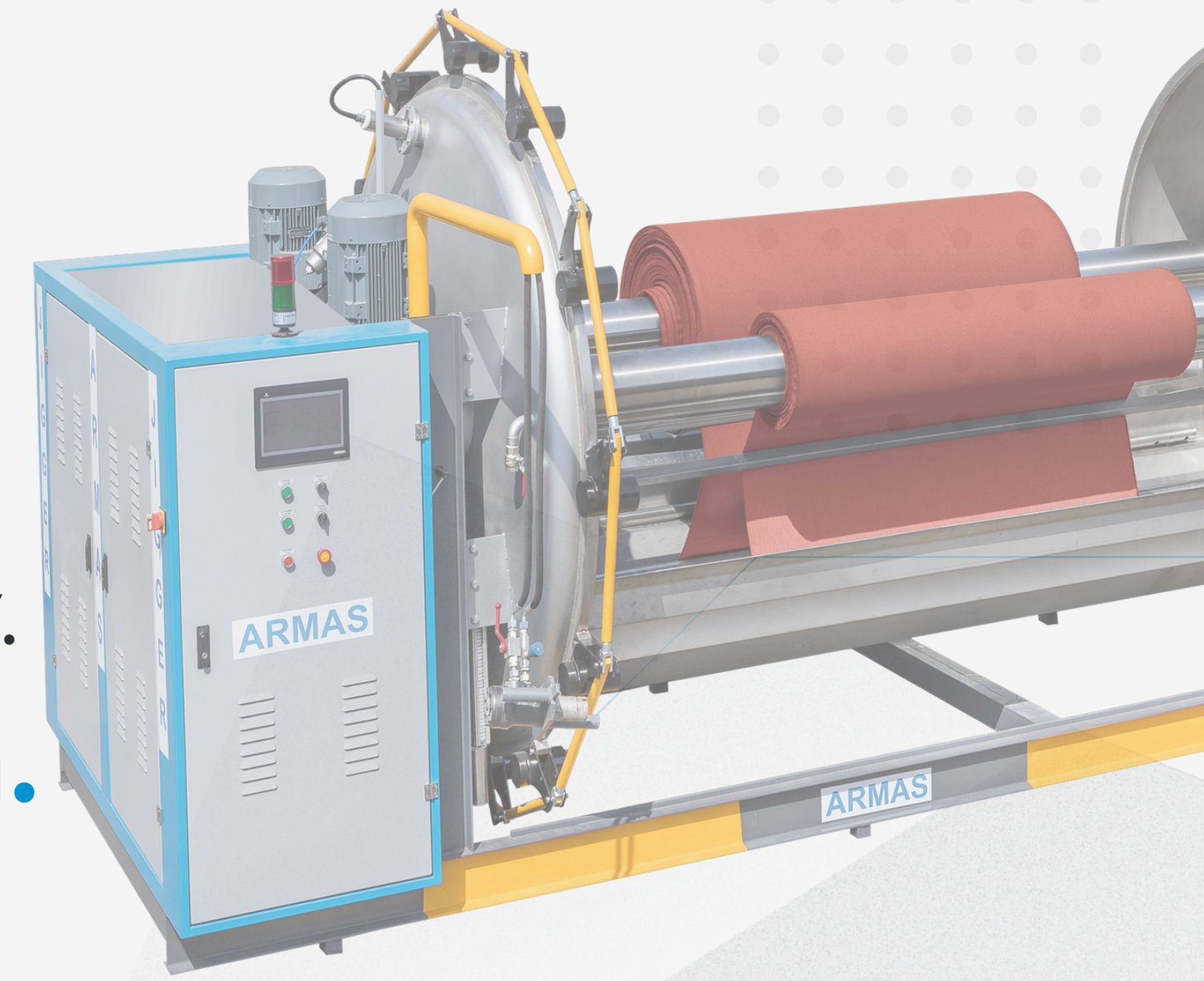
- Machine specifications can be engineered according to customer requirements, woven fabric type, process requirements and production capacity.
- Working width, automation level and auxiliary systems can be configured on a project-specific basis.
- Additional components and systems can be integrated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

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



Contact us for more information about our HT Jigger solutions for open-width woven fabrics.

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For more information, visit our website.

PRODUCT RANGE

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