The Second Generation of the Itema Rapier Denim Weaving Machine

R9500² denim

Itema
Now is the time

The world’s greatest denim mills are going to **save money**, produce **quality fabrics**, achieve the highest weaving **efficiency** like never before. A **new generation** of Itema denim rapier machine will push the boundaries of weaving due to **never-before-seen in the industry innovations**. The new era of denim weaving starts now with the **Itema R9500**

The Itema **R9500** features **breakthrough devices** and **enhanced skills** that put Itema - once again - one step ahead in the field of denim, guaranteeing an **unrivalled competitive advantage in the market** to denim mills running the new Itema machine thanks to tangible benefits ensured by brand-new innovations.

### Innovative features

- **UNPARALLELED COST SAVINGS**
  - iSAVER™ by ItemaLab™
  - Energy Saving
  - Tape-Hook System

- **SUPERIOR FABRIC QUALITY**
  - SK UltraLight Rapiers
  - Best-in-class Itema Shed Geometry

- **OUTSTANDING USER-EXPERIENCE**
  - Enhanced Ergonomy
  - Itema Textile Help
  - New Ergonomic Rapier Opener
  - ISD-Independent Selvedge Device
  - New Design
01
iSAVER™ BY ITEMALAB™
• Breakthrough mechatronic innovation to eliminate the waste selvedge on the left side of the fabric
  No Warp and Weft Waste Leading to Unparalleled Cost Savings

02
ENERGY SAVING
• The optimization of the machine main mechanical components and lubrication system allows a considerable energy consumption reduction.
  Substantial Cost Savings

03
NEW TAPE-HOOK SYSTEM
• Redesigned and optimized, the tape-hook system provides the remarkable benefit of significantly extending components’ lifetime.
  The new Itema tapes developed by Lamiflex, an Itema Group company specializing in composite materials, feature an innovative configuration with a triple layer of carbon fiber.
  Maximum Components Reliability
04
SK ULTRALIGHT RAPIERS

- Specially designed to meet specific indigo fabric needs. The rapiers’ revolutionary design ensures their reduced dimensions and maximum lightness. Streamlined and lightweight, the SK UltraLight Rapiers provide high-precision grip and guarantee superior textile performances.

Superior Textile Performances

05
ENHANCED ITEMA SHED GEOMETRY

- The worldwide recognized as best-in-class Itema Shed Geometry takes here a further step towards perfect fabric quality. In fact, the smallest shed opening in the market ensures unsurpassed denim quality, hand-feel and appearance.

Unmatched Fabric Quality and Textile Versatility
06 OPTIMIZED ERGONOMONY
- The R9500 features a lowered front frame to facilitate machine accessibility for the weaver when carrying out daily textile operations.

07 ISD – INDEPENDENT SELVEDGE DEVICE
- The new design ensures reduced maintenance due to minimized dust accumulation.

08 ITEMA TEXTILE HELP
- The Electronic NCP - New Common Platform - features a new important tool for the weaver: the Itema Textile Help customized for denim fabrics. An advanced and at the same time intuitive troubleshooting software that supports the weaver with concrete solutions to easily and quickly overcome the most common textile difficulties that may occur during the weaving cycle.

09 NEW ERGONOMIC RAPIER OPENER
- Allowing the weaver to carry out the necessary set-up operations in just a few, quick moves and without the need of additional tools.

Outstanding User-Experience

Improved Machine Accessibility

Reduced Maintenance

Real-Time Support to Weavers

Easy Set-Up Operations
### SPECIFICATION

<table>
<thead>
<tr>
<th></th>
<th>STANDARD</th>
<th>OPTIONAL</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Weft Transfer System</strong></td>
<td>Rapier SK UltraLight: guided rapiers “monorail” type hooks</td>
<td>Stäubli Dobby 3060</td>
</tr>
<tr>
<td>Shedding</td>
<td>Stäubli Dobby 3020</td>
<td>Stäubli Cam Motion 1692 up to 8 frames</td>
</tr>
<tr>
<td>Number of Shafts</td>
<td>12</td>
<td>16</td>
</tr>
<tr>
<td>Warp Beam</td>
<td>Single beam diameter 1000 mm</td>
<td>Single beam diameter 1100 mm</td>
</tr>
<tr>
<td>Weft Insertion</td>
<td>Electronic weft selector: 4 colors</td>
<td>Electronic weft selector: 8 colors</td>
</tr>
<tr>
<td>Weft Cutter</td>
<td>Mechanical weft cutter</td>
<td>ROTOCUT</td>
</tr>
<tr>
<td>iSAVER™ by ItemaLab™</td>
<td>iSAVER™</td>
<td></td>
</tr>
<tr>
<td>Pick Density</td>
<td>5-400 Picks/cm</td>
<td></td>
</tr>
<tr>
<td>Selvedge</td>
<td>Motorized selvedge and leno device</td>
<td></td>
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<tr>
<td>Warp Let Off</td>
<td>Electronic controlled let off</td>
<td></td>
</tr>
<tr>
<td>Fabric Take Up</td>
<td>Electronic controlled take up: internal cloth roller up to 550 mm</td>
<td>Electronic controlled take up: external batching motion up to 1500 mm</td>
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<tr>
<td>Connectivity</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Ethernet interface (with Loom Browser and/or ILMS)</td>
<td></td>
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<tr>
<td></td>
<td>Serial VDI interface: for bi-directional data transmission</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Parallel interface: for mono-directional data transmission</td>
<td></td>
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<tr>
<td>Other Options</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Reed LED Lamp</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LoomCooler</td>
<td></td>
</tr>
<tr>
<td>Warranty</td>
<td>QRP Seal - 2 year warranty</td>
<td></td>
</tr>
</tbody>
</table>

### Nominal Width (Machine Width - A) and Overall depth (B)

- 1900 mm (4500 mm) with 800mm warp beam 1920mm (*)
- 2100 mm (4700 mm) with 1000mm warp beam 2062mm (*)
- 2200 mm (4900 mm) with 1100mm warp beam 2185mm (*)
- 2300 mm (4900 mm) with 1100mm warp beam 2185mm (*)
- *foot boards excluded

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For looms assembled in China, all parts imported except accessories.
Since ever rapier weaving technology implicates warp and weft waste formation at both fabric sides. But today, Itema changes the rules of the game.

ItemaLab™, the Itema Advanced Innovation Department, developed a breakthrough device - the iSAVER™ - able to completely eliminate the left-hand weft waste, leading to unparalleled benefits.

**HOW IT WORKS**

- **iSAVER™** is based on the latest and most advanced mechatronic principles which provide weavers with a highly innovative, yet intuitive and simple-to-operate device:
  - set-up is possible directly from the machine console
  - the device does not hinder in any way the operating speed of the loom
  - in case of fabric width adjustments the iSAVER™ stays in its position since the weaver just needs to work on the right side of the fabric by setting an asymmetric width reduction
- working up to four weft colors/yarns, the iSAVER™ features four small clamps that hold the yarn during the weft insertion cycle and that move according to the weft that has to be inserted in the fabric
- by inserting the weft yarns in the fabric without the need of additional yarns, the iSAVER™ eliminates the false selvedge on the left side of the fabric significantly reducing raw material waste leading to never-seen-before cost savings and setting a new benchmark in sustainable weaving.

**iSAVER™ Saving Table**

<table>
<thead>
<tr>
<th>Weft Yarn</th>
<th>Weft waste (Kg)*</th>
<th>iSAVER™</th>
<th>Traditional</th>
<th>Machine Saving per Year**</th>
</tr>
</thead>
<tbody>
<tr>
<td>CO Ne 6/1</td>
<td>1,700</td>
<td>3,400</td>
<td>€ 3,000</td>
<td></td>
</tr>
<tr>
<td>CO Ne 12/1</td>
<td>900</td>
<td>1,800</td>
<td>€ 1,900</td>
<td></td>
</tr>
<tr>
<td>CO Ne 16/1</td>
<td>650</td>
<td>1,300</td>
<td>€ 1,400</td>
<td></td>
</tr>
<tr>
<td>CO Ne 16/1 + LY 78 dtex</td>
<td>750</td>
<td>1,500</td>
<td>€ 2,300</td>
<td></td>
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<tr>
<td>PES 167 dtex + LY 78 dtex</td>
<td>425</td>
<td>850</td>
<td>€ 1,200</td>
<td></td>
</tr>
</tbody>
</table>

* considering R9500°denim at maximum production speed

** considering standard yarn costs and limited to weft yarn consumption (not including warp yarn consumption)
A step forward in denim weaving generation

www.howdoyoudenim.com

Do it Itema

www.itemagroup.com
contact@itemagroup.com

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