



R9500² *denim*

The Second
Generation of the
Itema Rapier Denim
Weaving Machine

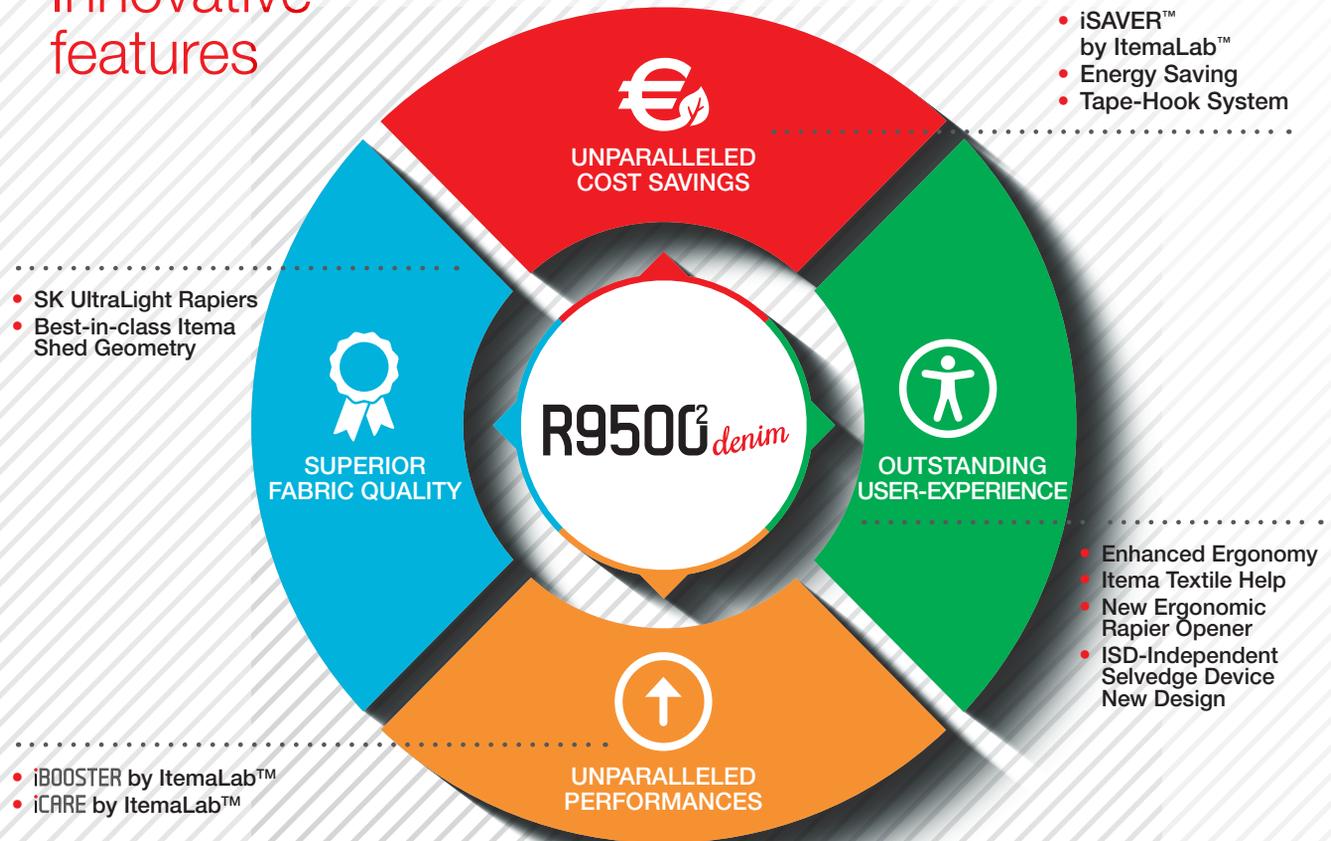
itema

Now is the time

Now is the time. The world's greatest denim mills can finally **save money, produce quality fabrics, achieve the highest weaving performances** like never before. The IteMa **R9500²denim** changed the rules of denim production by setting new benchmarks in fabric quality and sustainable weaving and has become the preferred choice of the worldwide future-oriented denim mills.

The IteMa **R9500²denim** features **breakthrough devices** and **enhanced skills** that put IteMa 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

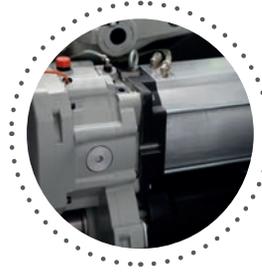


01

iSAVER™ BY ITEMALAB™

- Breakthrough mechatronic innovation to eliminate the waste selvage 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

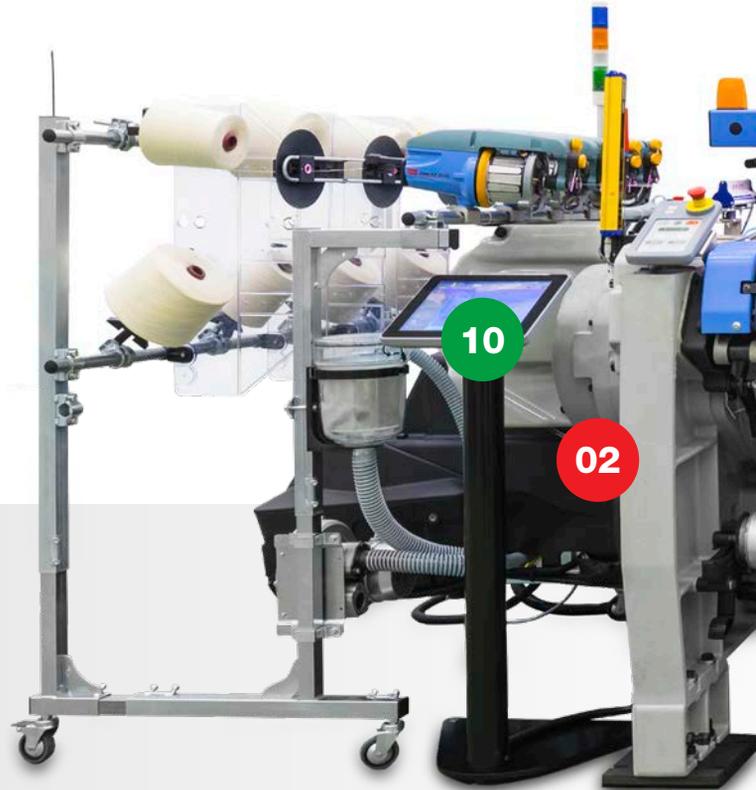


03

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**



R9500² *denim*



Superior Fabric Quality



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.

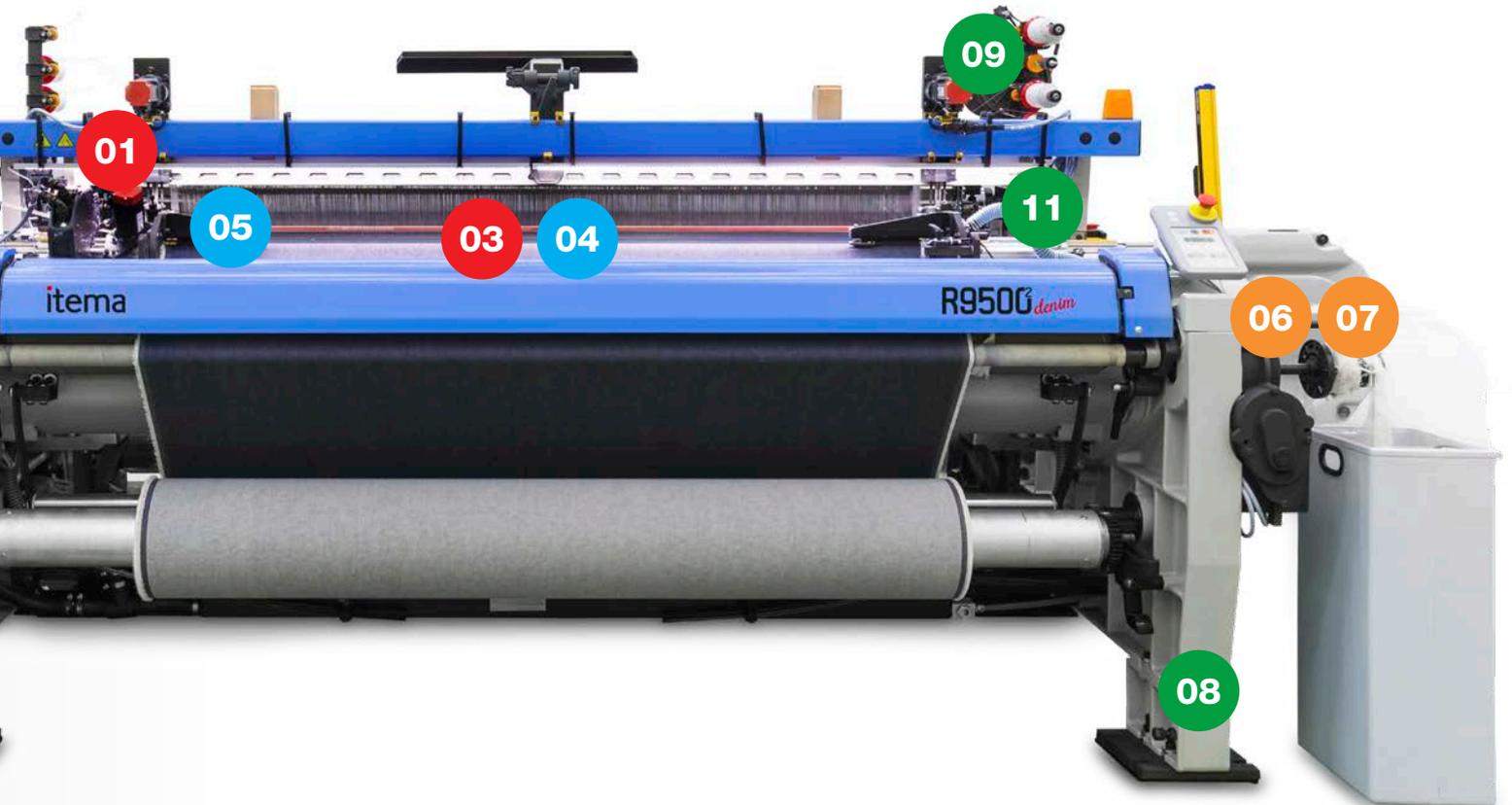
↳ **Superior Textile Performances**



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**





Unparalleled Performances



06

iBOOSTER BY ITEMALAB™

- Developed for weavers who want to run extremely fast, the **iBOOSTER** package literally boosts machine's performances, without compromising reliability. Thanks to a deep materials study made by Itemalab, in close cooperation with Lamiflex, Itema succeeded in developing new reinforced tapes, sprocket wheels and micro smart coolers to ensure extended lifetime.
- ↳ **Maximum Speed and Maximum Reliability at the same time**



07

iCARE BY ITEMALAB™

- Part of the iBOOSTER package, **iCARE** is a future oriented system which - thanks to an advanced sensors mechanism - monitors in real-time the state of health of the Itema tapes and sprocket wheels suggesting possible interventions through the machine latest generation console. **iCARE** provides the valuable advantage to fully control machine's operations even when running at the highest speeds.
- ↳ **Extended Components Lifetime Preventive Maintenance Solution**



Outstanding User-Experience



08

OPTIMIZED ERGONOMY

- The **R9500^{denim}** features a lowered front frame to facilitate machine accessibility for the weaver when carrying out daily textile operations.
- ↳ **Improved Machine Accessibility**



09

ISD - INDEPENDENT SELVEDGE DEVICE

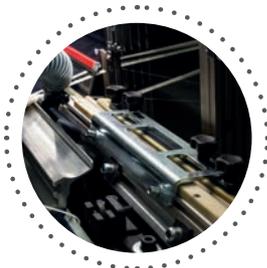
- The new design ensures reduced maintenance due to minimized dust accumulation.
- ↳ **Reduced Maintenance**



10

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.
- ↳ **Real-Time Support to Weavers**

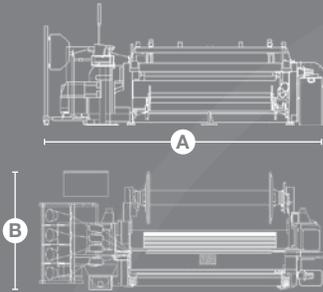


11

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.
- ↳ **Easy Set-Up Operations**

R9500²denim | at a glance



Nominal Width (Machine Width - A)	Overall depth (B)
1900 mm (4500 mm)	with 800mm warp beam 1920mm (*) with 1000mm warp beam 2062mm (*) with 1100mm warp beam 2165mm (*) <i>*foot boards excluded</i>
2100 mm (4700 mm)	
2200 mm (4800 mm)	
2300 mm (4900 mm)	

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



The saving that you **never expected**

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 selvage 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.**

Revolutionary, profitable, eco-friendly, easy to operate, innovative.
iSAVER[™] by ItemaLab[™], only for game changers.

iSAVER[™] Saving Table	iSAVER[™]	Traditional	Machine Saving per Year**
Weft Yarn	Weft waste (Kg)*		
CO Ne 6/1	1,700	3,400	€ 3,000
CO Ne 12/1	900	1,800	€ 1,900
CO Ne 16/1	650	1,300	€ 1,400
CO Ne 16/1 + LY 78 dtex	750	1,500	€ 2,300
PES 167 dtex + LY 78 dtex	425	850	€ 1,200

* considering R9500² 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

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