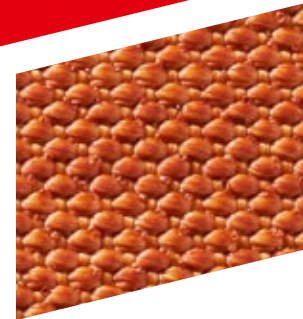
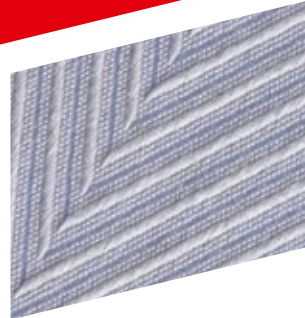
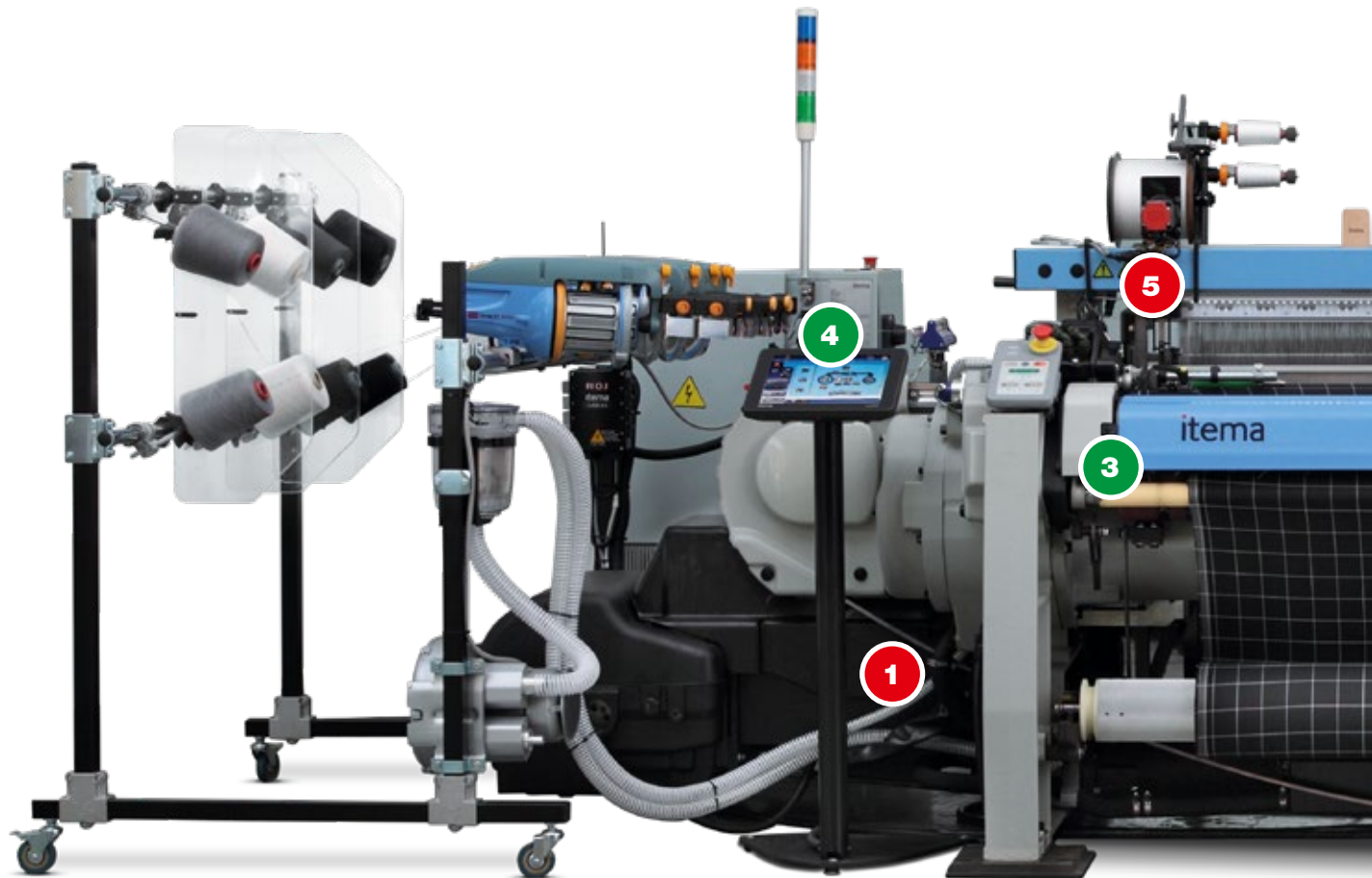


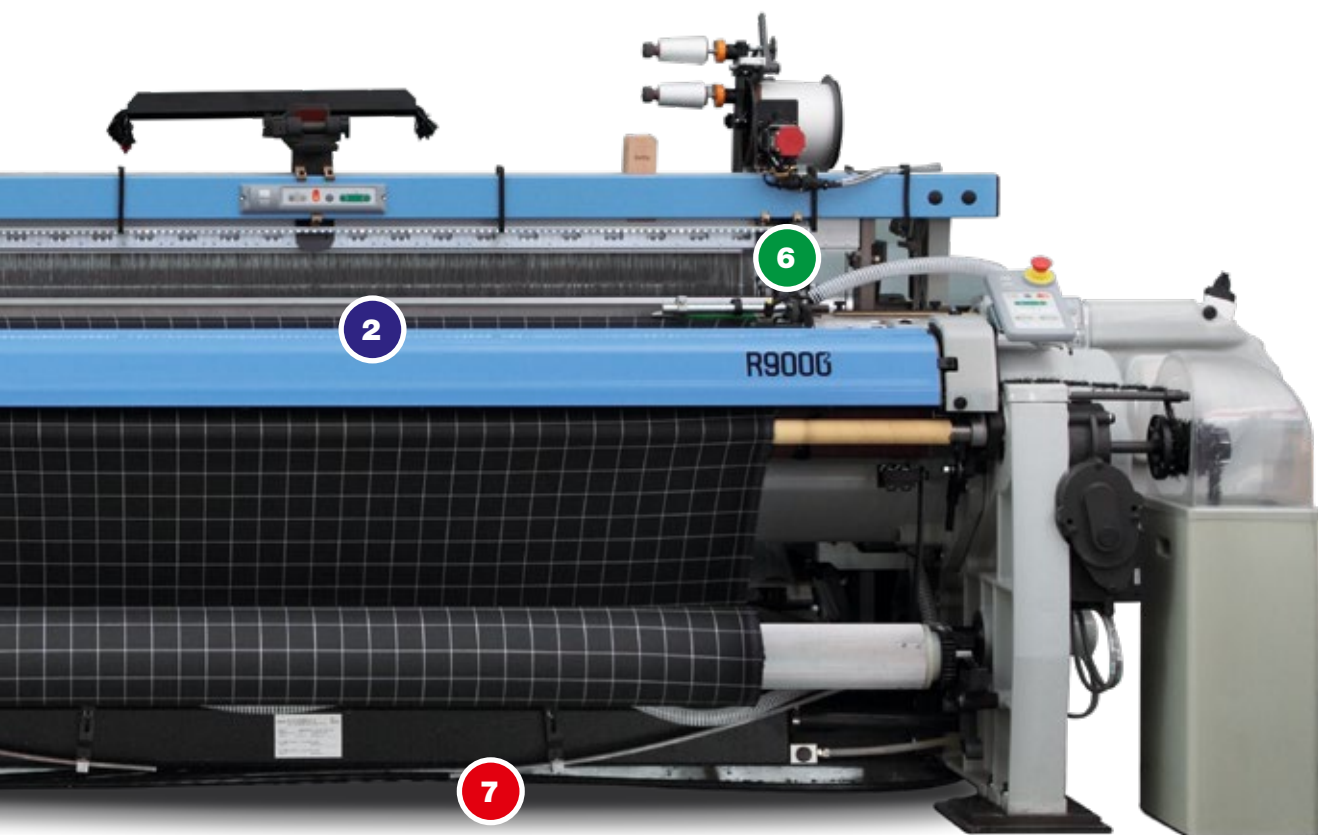
# R9000<sup>2</sup>



itema

R9000<sup>2</sup>





# UNPARALLELED COST SAVINGS AND PERFORMANCES

# SUPERIOR FABRIC QUALITY

# OUTSTANDING USER-EXPERIENCE

## 1 Energy Saving

The optimization of the machine main mechanical components and lubrication system allows a considerable energy consumption reduction.

### Substantial Cost Savings

## 5 Multiple choice of Weft Cutters

### Mechanical Weft Cutter

Reliable and effective also in the most demanding weaving conditions

### Rotocut Weft Cutter

Newly designed and featuring a rotary blade, it allows a perfect cutting time— at the same moment—of the filling yarns ensuring best results and optimal efficiency

### Motorized Weft Cutter

Ideal solution when weaving complex styles and/or multiple weft configurations, providing unbeatable versatility and textile efficiency

## 7 QRP

2 Year Warranty

## 2 SK Weft Transfer

Designed for high speed and versatility thanks to its exclusive ultra-light, ceramic coated rapier heads.

**High machine performances and superior fabric quality due to less yarns' wear**

## 2 FPA—Free Positive Approach Weft Transfer

No guiding elements in the shed

No friction on warp yarn for perfect fabric quality

Optimized Design

Outstanding versatility to weave the widest range of fancy, multifilament and monofilament yarns

## 3 Optimized Ergonomy

The R9000<sup>2</sup> features a lowered front frame to facilitate machine accessibility for the weaver when carrying out daily textile operations.

### Improved Machine Accessibility

## 4 Latest Generation Touch- Screen Console

The Itema Electronic NCP—New Common Platform—comes here loaded on a high-performance, super sensitive touch-screen console.

### Enhanced User Friendliness

## 6 New FPA 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

## R9000<sup>2</sup> Second Generation Rapier Weaving Machine

**The most successful high-end rapier weaving machine assembled in China comes now to the market in a revamped, further enhanced version. The R9000 Second Generation will set the machine even further apart from its competition due to tangible and substantial benefits for the weaver.**

Itēma, in what is in an unprecedented move, assembles its latest generation machinery in the world-class manufacturing sites both in Europe, as well as in China, with the same attention to detail and quality, reliability and performance guarantee that Itēma Customers look for when they purchase Itēma machines. The only manufacturer in the weaving industry to adopt this future-oriented strategy, Itēma firmly believes that Chinese and world-wide weavers always deserve the latest and most advanced technology available in the market.

In fact, the R9000<sup>2</sup> has been loaded with the latest technological advancements implemented by Itēma, leading to a significantly improved machine's version.

The R9000<sup>2</sup> features optimized mechanical components providing substantial energy saving and performance improvements compared to the previous model. Moreover, the new machine's ergonomics guarantees an outstanding user-friendliness by facilitating machine accessibility for the weaver when carrying out daily textile operations and the Itēma Electronic NCP—*New Common Platform*—comes here loaded on a high-performance, super sensitive touch-screen console.

**The R9000<sup>2</sup> is not only the best balance between cost and perk that you can find on the market but the smart, effective and advanced weaving machine that you always dreamed to install in your weaving mill.**



**Weaving has never been so easy, and now with the peace of mind of our QRP seal of Quality, Reliability and Performance.**

**Itēma's R9000 rapier proudly carries the prestigious QRP seal.**

We strongly believe in our weaving machines, therefore, every QRP-certified Itēma machine is guaranteed for a period of two years.

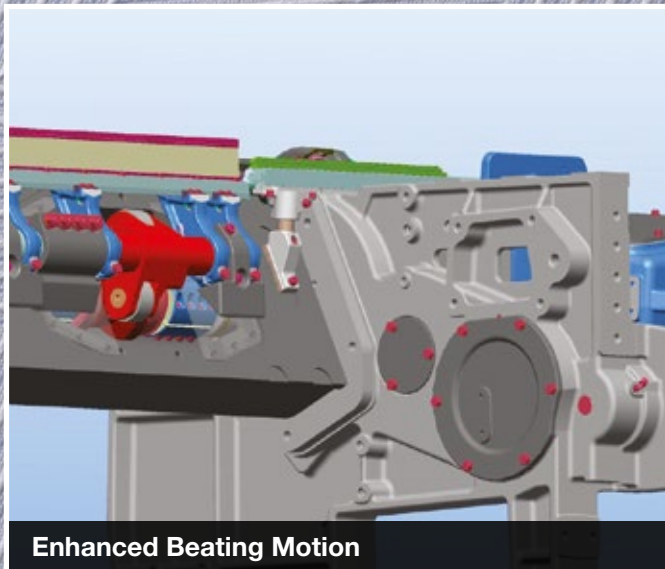
Itēma is the only producer in the world to extend the warranty.

Our unyielding commitment to R&D, to innovation, and to our Customers inspires us to excel in our extensive product testing.

We are tireless in our search for ways to enable our Customers to meet and exceed their stringent expectations of product performance and solid investment return.

**Look for the QRP mark—our testament to how we design, develop, lean manufacture and deliver our product, our unwavering confidence in our product and our guarantee to our Customers.**

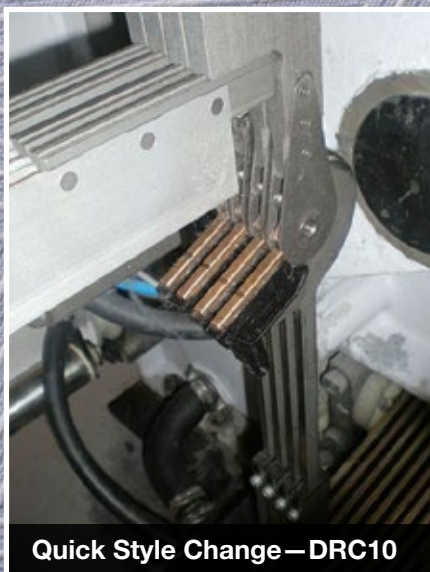
# R9000<sup>2</sup>



**Enhanced Beating Motion**



**Considerable Energy Saving**



**Quick Style Change—DRC10**



**Innovative Central Lubrication System**

## Practical, sturdy and providing substantial cost savings

### High Precision Machine Frame

The R9000<sup>2</sup> is an ode to simplicity. User friendly, with few covers and a streamlined layout that allows easy access for maintenance. The solid drive, positioned in main lateral frames, is engineered for extensive control of moving masses to consistently process heavy patterns or unbalanced styles with minimal cost and maintenance.

The re-designed sley and back rest modules represent key new innovations. The new sley design improves speed and versatility, while the new back rest module enables less warp tension and a cleaner shed break.

### Considerable Energy Saving

The optimization of the machine main mechanical components and lubrication system allows a considerable energy consumption reduction, thus leading to substantial cost savings for the weaver.

### Enhanced Beating Motion

The R9000<sup>2</sup> beating motion is positioned in gear boxes and centered directly beneath the sley motion. Any possibility of oil leaks is eliminated, thanks to the full integration of two or more positions—depending on machine's specifications—into the lubrication system and main structure bar.

### Innovative Central Lubrication System

The machine's components are lubricated by a centralized lubrication system which provides oil from a main reservoir with double filter. This innovative lubrication system significantly reduces energy consumption, therefore extending the life cycle of mechanical components.

Quick and easy dispensing and removal orifices are standard, ensuring an efficient lubrication program which reduces maintenance costs.

Reliability is assured by the NCP Electronic System, maintaining constant control of system pressure and temperature.

### Direct Drive Motor

The main drive is based on an electronic and brushless motor technology which provides easy touch-screen adjustment of machine speed. Traditional gearing and mechanical parts are reduced to the minimum, optimizing energy consumption, as well as providing added value due to fewer spare parts and lower maintenance costs.

Simple, reliable, maintenance free and with no cooling system required.

Thanks to the new NCP Platform, the shed crossing setting is now electronically adjustable, directly through the user interface.

### Quick Style Change

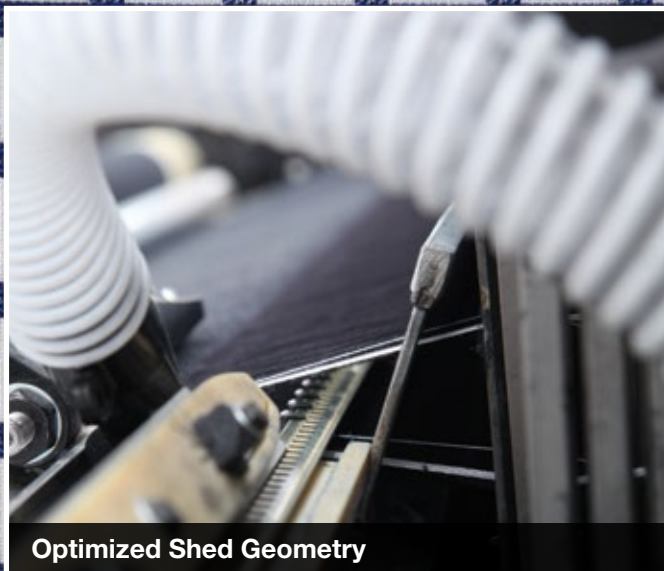
The R9000<sup>2</sup> significantly reduces downtime for style changes by simplifying the maintenance and settings procedures. The Quick Beam release/connection is standard on all machines. In compliance with **DRC10** the frames connection allows a faster operation and an ergonomic set up.

### Improved and Optimized Ergonomy

Without sacrificing safety, we reduced the number of machine covers, enabling a much faster access for machine cleaning and maintenance. Additionally, fewer machine covers improve ergonomics by dissipating the heat load through the working room.

Last but not least, the R9000<sup>2</sup> features a lowered front frame to facilitate machine accessibility for the weaver when carrying out daily textile operations.

**R9000<sup>2</sup>**





## Unique weft insertion system

### Optimized Shed Geometry

The R9000<sup>2</sup> benefits from the new shed geometry made famous by our 2013 best-seller, the rapier R9500. The basis of this optimized shed geometry lies in the need for a smaller shed for maximum speed and rapiers, appropriately sized, with different capabilities.

The beating stroke has been increased to guarantee the highest beating force and the capacity to weave heavy fabrics.

All elements have been studied and applied to guarantee perfect quality of the fabrics produced.

### Back Rest

The R9000<sup>2</sup> provides two different back rest versions, single or double, in order to cover a high range of fabric from light to heavy like denim.

### Exclusive Propeller, the Turboprop

Another key improvement of the R9000<sup>2</sup> is the renowned propeller drive system. Called the Turboprop, the drive remains compact with minimal moving parts for reliability and less maintenance, further assured by: direct lubrication of all sliding parts, as well as dynamic lubrication is standard:

- new carriage and swinging sliders are designed with aeronautical grade alloys
- the mechanism is secured into the side frame to insure stability and precision.

Customary to the design, the settings of the new Turboprop do not “drift” over time eliminating the need for continual settings and adjustment by maintenance personnel. The Turboprop assures a reliable and low cost performance.

### Innovative “SK” Weft Transfer

The innovative SK Transfer System is engineered for high speed and versatility. While providing for a wide array of weft yarns, the SK System is the most advanced transfer system on the market today. The system star is the ultra-light ceramic coated rapier, which provides consistent high speed performance and less wear. Moreover, the insertion gripper is positioned very close to the reed promoting increased efficiency and dependable quality. The receiving gripper features a unique, patented opening system utilizing a permanent magnet integrated within the gripper.

### Versatile “FPA” Weft Transfer

The Itema FPA—Free Positive Approach weft transfer is the key to versatility and flexibility, due to its race board with no guiding elements in the shed.

The R9000 Second Generation brings a substantial improvement in the FPA Weft Transfer System, by allowing—as standard—a fabric width reduction up to 1000 mm, with no need of additional guides and leading to a maximum versatility and easy setting for the weaver.

### Multiple Choice of Weft Cutters

The R9000<sup>2</sup> provides a reliable and user friendly mechanical weft cutter.

Furthermore, as optional, two more electrically cutters driven by independent motor are available:

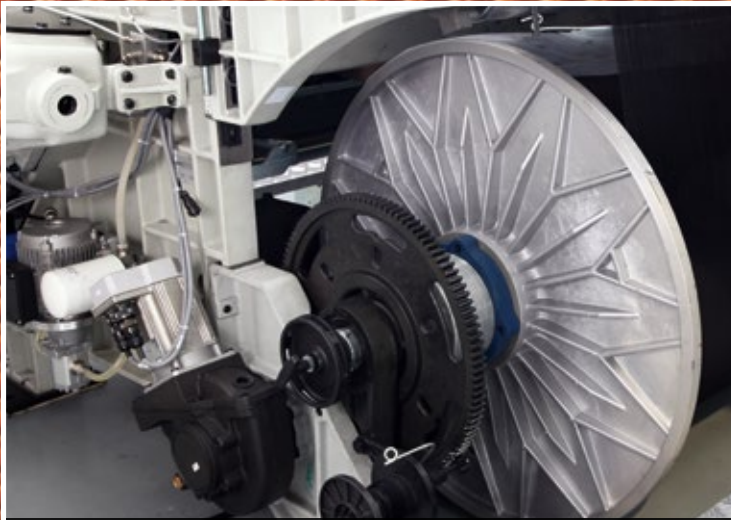
- Rotocut
- Motorized

### New Weft Yarn Selector

Available for configurations for 4, 8 or 12 colors.

It has been completely redesigned to promote the maximum versatility and reliability. Maintenance free, it is driven and controlled by the microprocessor. Fine tuning the stroke of the selected finger promotes a gentle movement and works to eliminate interference with adjacent wefts. The device is easily accessible for weaving and maintenance personnel, reducing downtime for weft repairs and style changes.

# R9000<sup>2</sup>



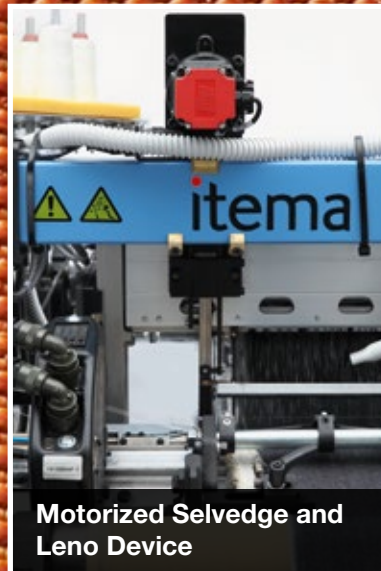
**Warp Let Off and Quick Beam Release**



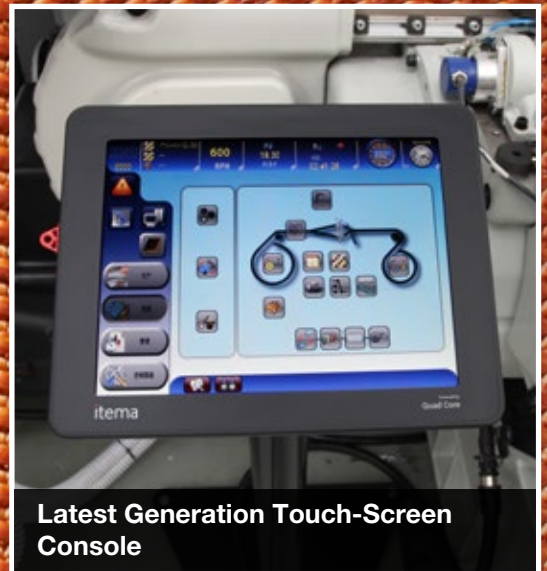
**FPA Ergonomic Rapier Opener**



**Fabric Take Up**



**Motorized Selvedge and Leno Device**



**Latest Generation Touch-Screen Console**

## Efficient and straightforward

Extremely manageable, the R9000<sup>2</sup> allows our Customers to achieve success producing quality fabrics at the lowest possible weaving cost.

### **Enhanced Warp Let Off and Fabric Take Up**

The machine is equipped with an electronic warp let-off and fabric take up.

The gearing system is in an oil bath. Pick density can be changed via the on board microprocessor. Multiple beam applications are all electronically controlled.

### **Leno and Selvedge Device**

Two systems are available:

- mechanical system which ensure the maximum yield, through their functional simplicity;
- motorized system—as optional, designed for high performance, the brushless motor eliminates the need for maintenance and adjustments.

### **FPA Ergonomic Rapier Opener**

The R9000<sup>2</sup> is equipped with an ergonomic rapier opener which allows the weaver to carry out the necessary set-up operations in just a few, quick moves and without the need of additional tools thus leading to easy set-up and adjustments.

### **Latest Generation Touch Screen Console**

The R9000<sup>2</sup> is equipped with a latest generation, super sensitive and extremely powerful console. The Electronic NCP Platform reaches here the highest performance heights, due to the fast and immediate hardware's reaction to users' requests.

The full color touch-screen acts here as the user interface between the weaver and the machine, and the intuitive software encourages dialogue with weavers and technicians. The interactive machine symbols ensure an user-friendly experience by guiding personnel to the desired information.

### **On Board Diagnostics**

At Itema, we know that time is money. This is why the R9000<sup>2</sup> has been equipped with our state-of-the-art diagnostic software. By simply accessing the touch screen, a functionality test can be performed for any device or application on the machine, even circuit boards. Our engineers specifically designed this feature to be used without particular tools, knowledge or previous background in electronics. It is especially designed for the people on the weaving floor who daily work with our R9000<sup>2</sup> weaving machine.

# R9000<sup>2</sup>

## MACHINE MAIN SPECIFICATIONS

<b>Nominal Machine Widths</b>	SK Transfer System	190-210-220-230-260-280-300-320-340-360-380
	FPA Transfer System	190-210-220-230-260-280-300-320-340-360
<b>Width Reduction</b>	SK Transfer System	Standard 60 cm Optional 100 cm
	FPA Transfer System	Standard 80 cm Optional 100 cm
<b>Yarn Range</b>	Spun Yarns	Nm 200 – Nm 3 For FPA up to Nm 1
	Filament Yarns	22 dtex – 3,300 dtex

## WEFT INSERTION

<b>Electronic Weft Selector</b>	4, 8 or 12 colors	
<b>Weft Detector</b>	ROJ TE 500 for 4 or 8 colors	Standard
	ROJ TE 500 C-MATIC for 12 colors	Optional
<b>Weft Cutter</b>	Mechanical Weft Cutter	Standard
	ROTOCUT	Optional
	Motorized Weft Cutter (programmable weft by weft)	Optional

## WARP LET-OFF

<b>Warp Beam Diameter</b>	800, 1000 or 1100 mm	Standard
<b>Twin warp beam for wide looms (from 260 to 380 cm)</b>		Optional
<b>Top beam</b>		Optional
<b>Back-Rest Roller</b>	Single	Standard
	Double (diameter 108 mm, 136 mm and 151 mm)	Optional
<b>Warp Stop Motion</b>	6 bar 30 mm pitch	Standard
	8 bar 16 mm pitch	
	10 bar 16 mm pitch	Optional

## FABRIC TAKE-UP

<b>Electronic Controlled Take-Up</b>	Internal cloth roller up to 550 mm	Standard
	Prepared for external batcher up to 1,500 mm	Optional
	Single press-roller	Standard
	Reinforced press roller	Optional
	Double press-roller	Optional
	Reinforced double press roller	Optional
	Partially threaded fabric deviating bar	Standard
	Smooth fabric deviating bar	Optional
<b>Fabric Inspection Area</b>	LED lamp for reed area	Optional
<b>Pick Density</b>	5-400 picks/cm	Standard



## R9000<sup>2</sup> at a glance

### MACHINE MAIN DRIVE

<b>Main Motor</b>	Direct drive motor for dobby and jacquard	Standard
<b>Shedding Motion</b>	Heald frame connection DRC10	Standard
	Heald frame connection DRC10-QFC	Optional
	Heald frame connection DRC4	Optional
	Automatic crossing shed (standard)	Standard
	LoomCooler	Optional
<b>Shedding Machine</b>	Stäubli dobby 2658B (up to 20 shafts)	
	Stäubli dobby 2678 (up to 20 shafts)	
	Prepared for electronic jacquard with cardan shaft	Standard
	Prepared for name selvedge jacquard	Optional
<b>Reed Drive</b>	Conjugated cam units (2 or 3 depending on machine width)	
<b>Machine Control</b>	Latest generation touch screen console with color display	Standard
<b>Options</b>	Push-button on electrical cabinet for warp movement	Optional

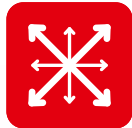
### SELVEDGE FORMATION

<b>Lateral mechanical leno device</b>		Standard
<b>ISD independent selvedge device</b>		Optional
<b>Lateral and central pneumatic tuckers</b>		Optional
<b>Lateral and central mechanical tuckers</b>		Optional
<b>Thermo cutter</b>		Optional

### CONNECTIVITY

<b>On board diagnostic</b>	Standard
<b>Parallel interface: for mono-directional data transmission</b>	Optional
<b>Serial VDI interface: for bidirectional data transmission</b>	Optional
<b>Ethernet interface for iMANAGER</b>	Optional
<b>Ethernet interface for other monitoring systems on request</b>	Optional

# R9000<sup>2</sup>



**The Top Selling High-End Machine**  
**Assembled in China**, designed for **easy use**  
and **maximum versatility** to produce  
a **wide range of quality fabrics**.



**2 Year Warranty**

RAPIER



**WE WEAVING**  
EXCELLENCE with the IteMa R9000<sup>2</sup>  
**Our Customers, our Pride**

Scan the QR Code and listen to our Customers excellence story 



## Zibo Daranfang Silk Group

Meet our brand ambassador, Mr Liu Hengshan, general manager of Zibo Daranfang Silk Group.

Daranfang Group, based in Shandong, is a leading producer of silk fabrics that has shown over the 60 years of company's history the strong ability to conciliate the ancient and noble Chinese silk tradition with the latest fashion trends.

The partnership with IteMa dates back to 1988. In the past 30 years more than 400 sets of IteMa rapiere machines have been installed in their five production plants in Guangxi and Shandong province. What makes IteMa R9500 and R9000 the perfect choice when weaving silk are features such as high speed, high efficiency, user-friendliness and energy saving. But as Mr. Liu states in his interview, the R9000 "biggest benefit is that the fabric woven with machine doesn't show any defect!".



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campus

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2015

We have **6**  
**Itema Campus**  
Locations:

Italy – Colzate  
China – Shanghai  
Japan – Osaka  
USA – Spartanburg  
India – Coimbatore  
Pakistan – Lahore





# ITEMA CAMPUS TRAINING CENTER

We believe in a trusted and reliable partnership with our Customers, supporting them throughout the whole life cycle of the weaving machine. Our dedicated after sales market qualified team promptly satisfy in real time every Customer's request to ensure a win-win, long-term relationship.

The IteMa skilled technicians and engineers provide:

- real time textile, electronic and mechanical assistance
- tailor-made upgrade kits
- analysis and consulting regarding machines performances, including running costs and fabric quality

We recently launched a brand-new training center concept designed to provide tailored and accurate courses in a highly technological and user-friendly location. The IteMa Campus is a fully functional center equipped with the latest loom models to give our Customers a warm welcome and the right learning environment. A team of skilled IteMa technicians is fully dedicated to train the most demanding technical staff on how to maximize the performance of your IteMa machines.

An intensive course to acquire all the necessary technical and textile knowledge to get the most out of the IteMa weaving machines.

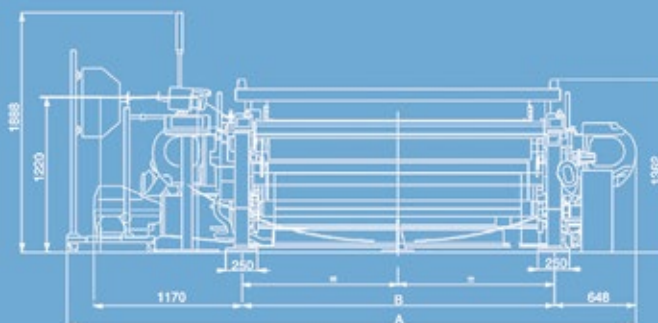
To facilitate and make even easier our Customers' access to the IteMa Campus Training Centers a dedicated online portal is available to easily and quickly book the desired technical trainings.

Discover more at [www.itemagroup.com/training](http://www.itemagroup.com/training)

# R9000<sup>2</sup>



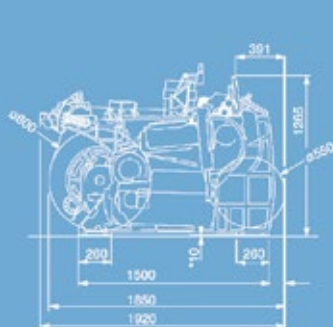
Nominal Machine Width	Machine Width A	Machine Width B
1900 mm	4500 mm	2470 mm
2100 mm	4700 mm	2670 mm
2200 mm	4800 mm	2770 mm
2300 mm	4900 mm	2870 mm
2600 mm	5200 mm	3170 mm
2800 mm	5400 mm	3370 mm
3000 mm	5600 mm	3570 mm
3200 mm	5800 mm	3770 mm
3400 mm	6000 mm	3970 mm
3600 mm	6200 mm	4170 mm
3800 mm (*)	6400 mm	4370 mm



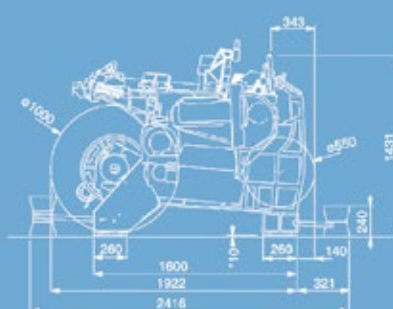
(\*) Machine Width 3800 mm only with SK Weft Transfer System

## Dimensions (mm)

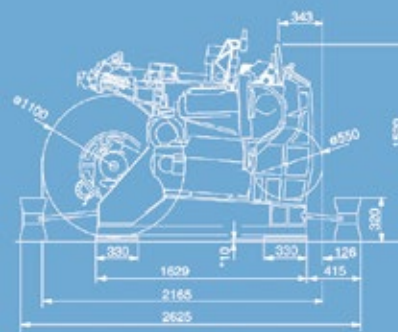
## Beam Arrangement



\*Pad LP-13



\*Pad LP-13



\*Pad LP-13



R9000<sup>2</sup>

190

D

4

S08

**Nominal Machine Width (cm)**

190, 210, 220, 230, 260, 280, 300, 320,  
340, 360, 380

**Shedding**

D *Dobby*  
J *Jacquard*

**Weft Colors**

4, 8, 12

**Beam Arrangement**

S08 *Single Beam 800 mm*  
S10 *Single Beam 1000 mm*  
S11 *Single Beam 1100 mm*  
D08 *Twin Beam 800 mm*  
D10 *Twin Beam 1000 mm*  
D11 *Twin Beam 1100 mm*  
S8S *Top Beam 800 mm (\*)*  
S1S *Top Beam 1000 mm (\*)*

(\*) *available in combination with  
Single or Twin Beams above*



**Itema** is a leading global provider of advanced weaving solutions, including best-in-class weaving machines, spare parts and integrated services.

Our Company is the only manufacturer in the world to provide the top three weft insertion technologies: rapier, air jet and projectile, with an ample product portfolio and a commitment to continuous innovation and technological advancement of our weaving machines.

For more information about Itema, to contact our Sales Team in your country, to learn more about our weaving machines or to order spare parts, please visit our website [www.itemagroup.com](http://www.itemagroup.com).

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Specifications subject to change without notice. 47.46.09 Abo - EN



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