



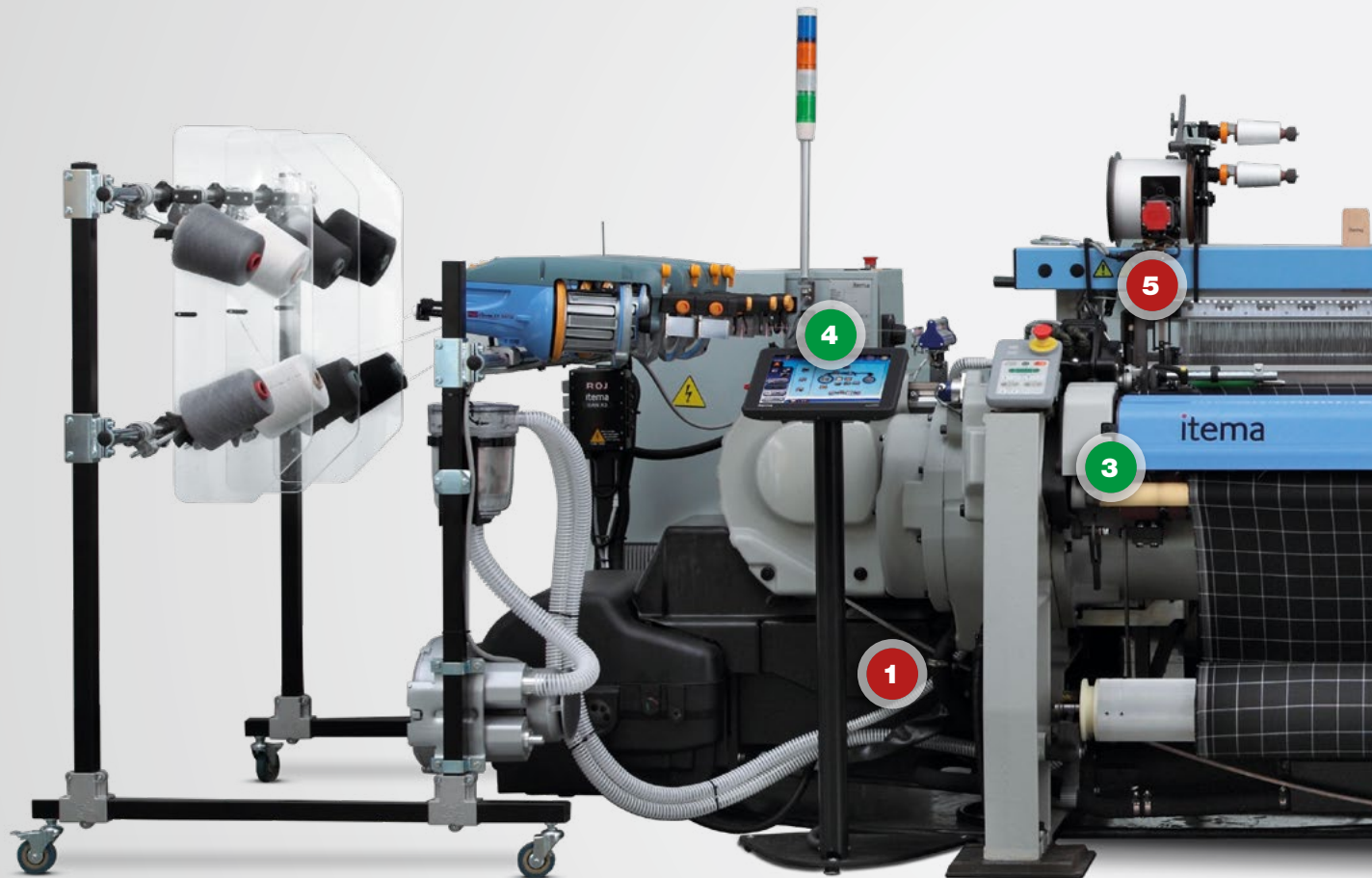
R900G<sup>2</sup>

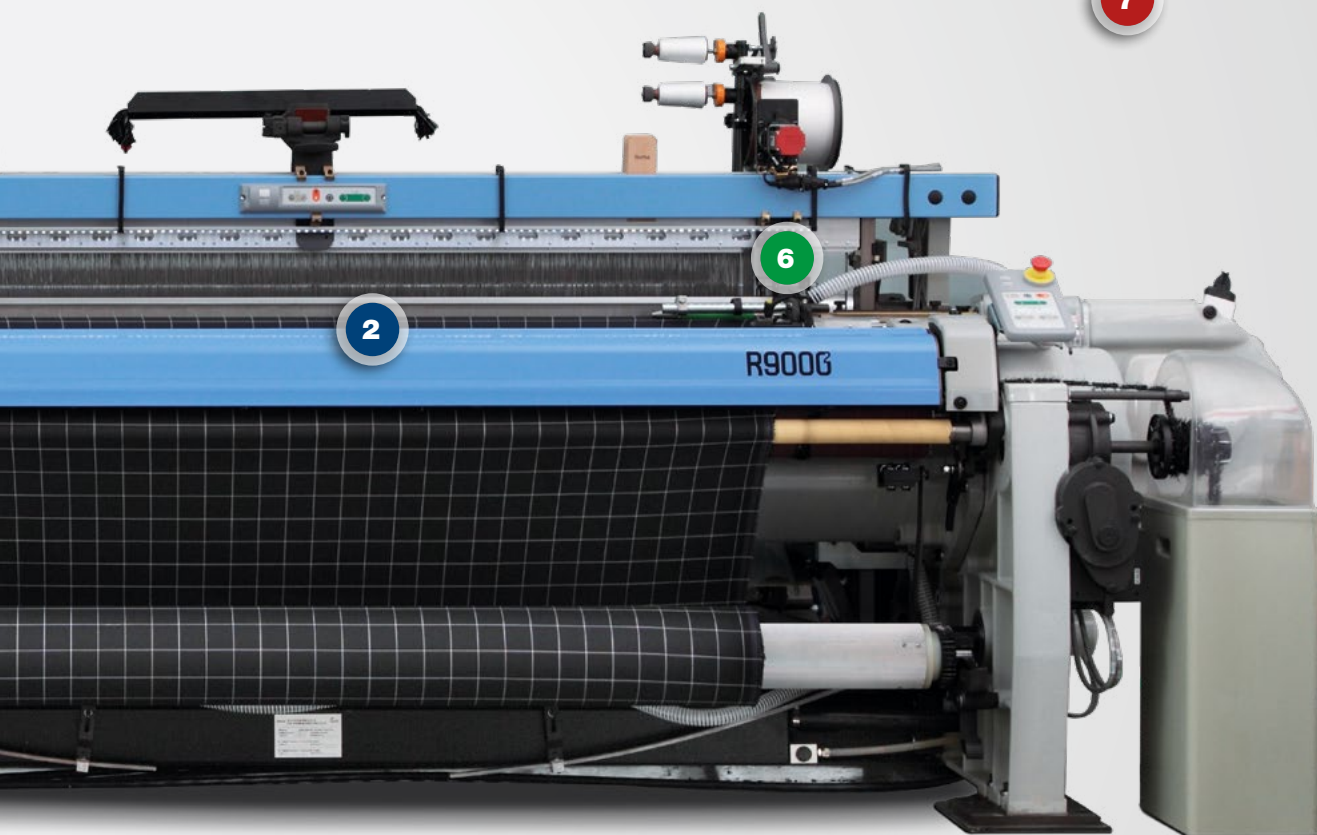


*Because  
we believe*

**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 re-vamped, 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.**

Itma, 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 Itma Customers look for when they purchase Itma machines. The only manufacturer in the weaving industry to adopt this future-oriented strategy, Itma firmly believes that Chinese and worldwide 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 Itma, 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 Itma 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. Itma's R9000 rapier proudly carries the prestigious QRP seal.

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

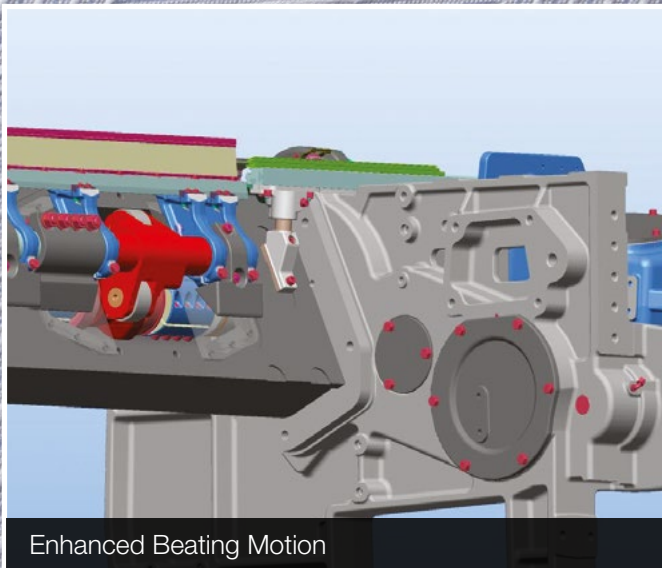
**Itma is the only producer in the world to extend the warranty.**

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

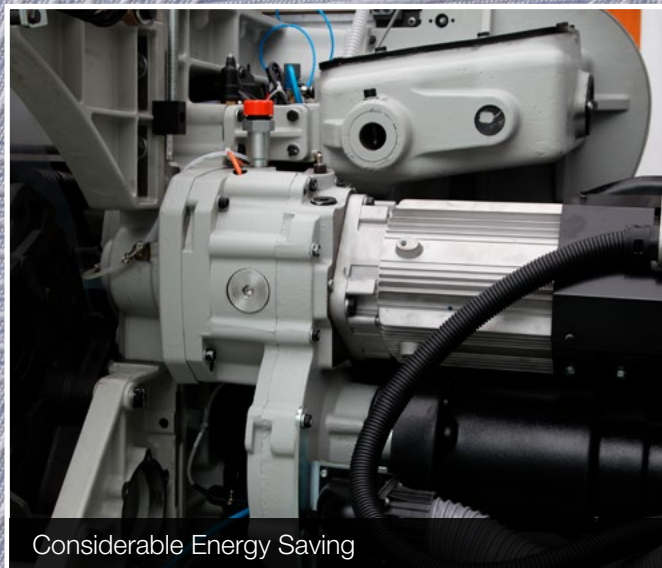
**We are tireless in our search for ways to enable our Customers to meet and exceed their stringent expectations of product performance and solid investment return.**

**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.**

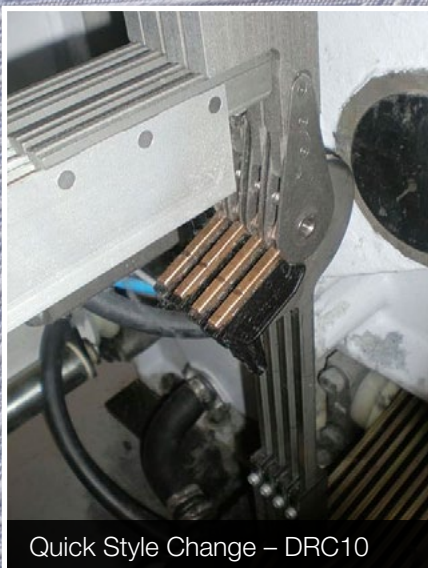
# R9000<sup>2</sup>



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

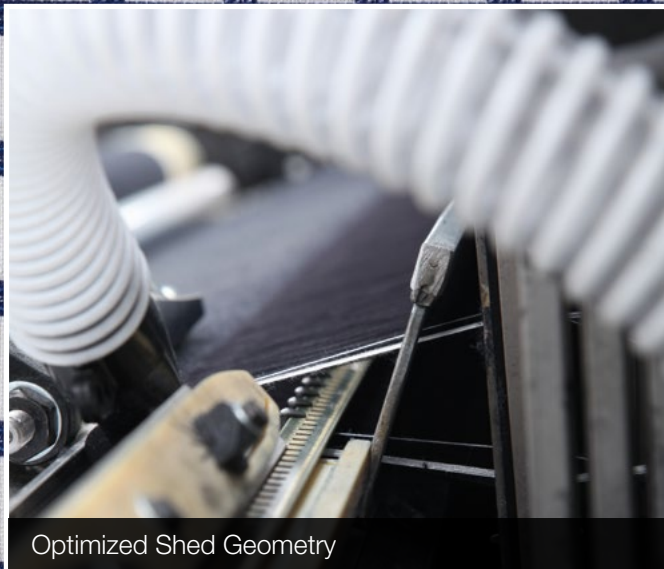
The R9000<sup>2</sup> significantly reduces downtime for style changes by simplifying the maintenance and settings procedures. The Quick Beam release/connection is standard on all machines. In compliance with **DRC10** the frames connection allows a faster operation and an ergonomic set up.

### Improved and Optimized Ergonomy

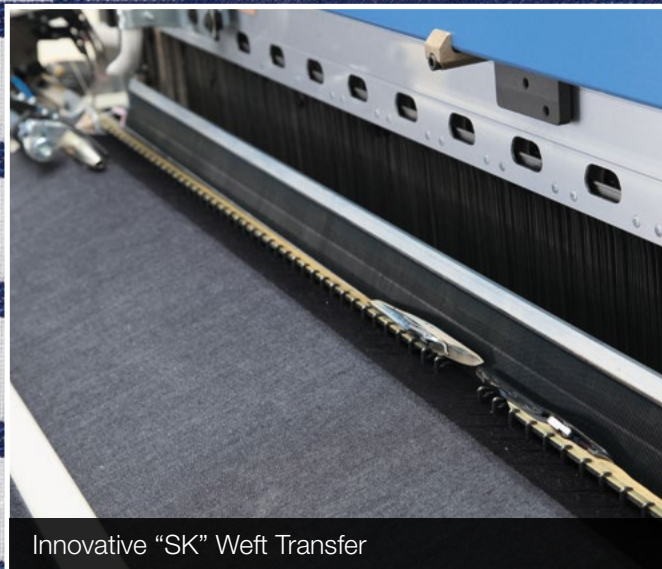
Without sacrificing safety, we reduced the number of machine covers, enabling a much faster access for machine cleaning and maintenance. Additionally, fewer machine covers improve ergonomics by dissipating the heat load through the working room.

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>



Optimized Shed Geometry



Innovative "SK" Weft Transfer



Exclusive Propeller, the Turboprop



New Weft Yarn Selector



# 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:

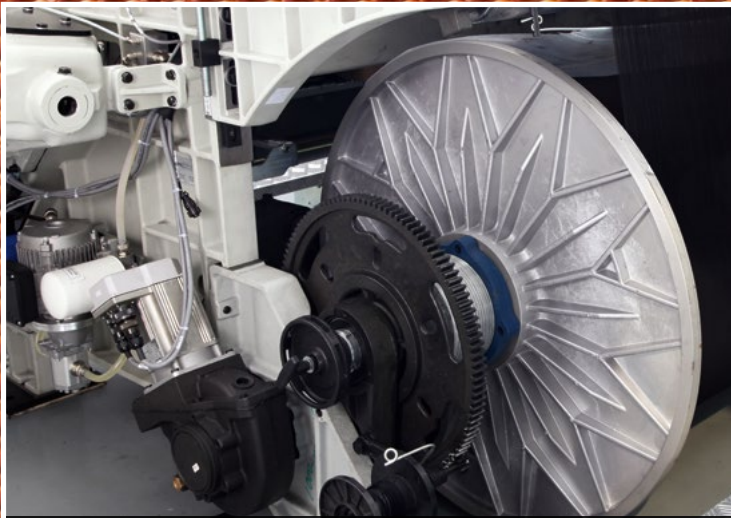
- Rotocut
- Motorized

## New Weft Yarn Selector

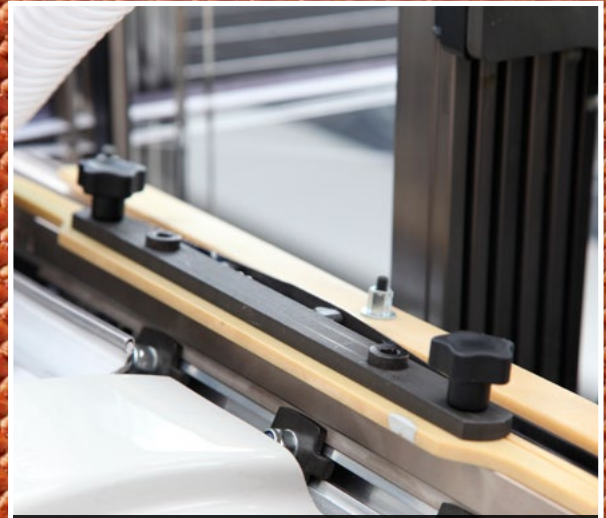
Available for configurations for 4, 8 or 12 colors.

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 down-time for weft repairs and style changes.

# R9000<sup>2</sup>



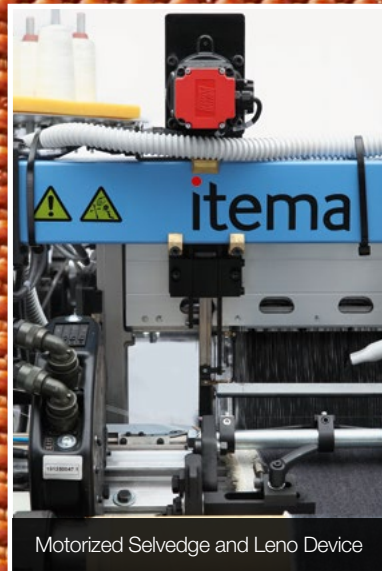
Warp Let Off and Quick Beam Release



FPA Ergonomic Rapier Opener



Fabric Take Up



Motorized Selvage 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>

## Nominal Machine Width (cm)

- **Rapier SK**  
190, 210, 220, 230, 260, 280, 300, 320, 340, 360, 380
- **Rapier FPA**  
190, 210, 220, 230, 260, 280, 300, 320, 340, 360

## Shedding

- Stäubli dobby 2658B or 2678  
(up to 20 frames)
- Arranged for Electronic Jacquard

## Transfer System

- Guided rapiers “monorail” type hooks (SK)
- “Free flight” on a felt covered race (FPA)

## Main Motor

- Hi-Drive both Dobby and Jacquard versions

## Warp Beam

- Single or twins beams
- Lower diameter 800, 1000 or 1100 mm
- Upper beam: 800 or 1000 mm

## Weft Insertion

- Electronic weft selector: 4, 8 or 12 colors

## Weft Cutter

- Mechanically Driven
- Electronically Driven (available as option in two versions: rotocut and motorized weft cutter for fancy applications)

## Pick Density

- Standard: 5–400 picks/cm
- Automatic weft density variation programmable in dobby pattern

## Selvedge

- Mechanical selvedge and leno device driven by independent mechanism
- Motorized selvedge and leno device (optional)
- Pneumatic lateral and central tuckers
- Mechanical lateral and central tuckers
- Lateral and central mechanical cutter
- Lateral and central thermo cutter (optional)

## Warp Stop Motion

- Electric or electronic warp stop motion with 6 or 8 rows

## Warp Let Off

- Electronic controlled let off

## Back Rest

- Single
- Double (optional)



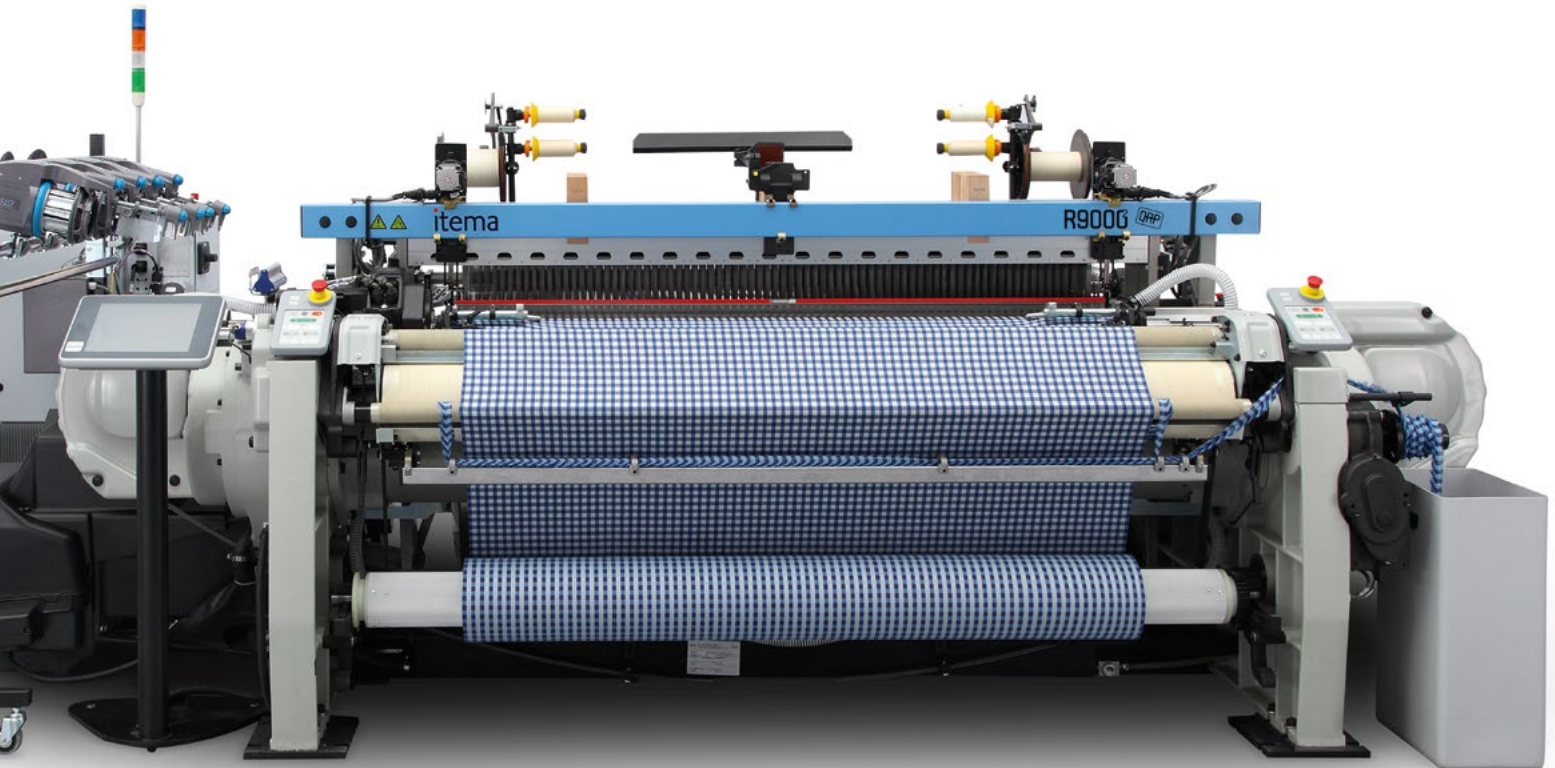
## R9000<sup>2</sup> at a glance

### Fabric Take Up and Cloth Roller

- Electronic controlled take-up
- Cloth roller diameter: up to 550 mm
- External batching motion (optional) up to 1500 mm

### Connectivity

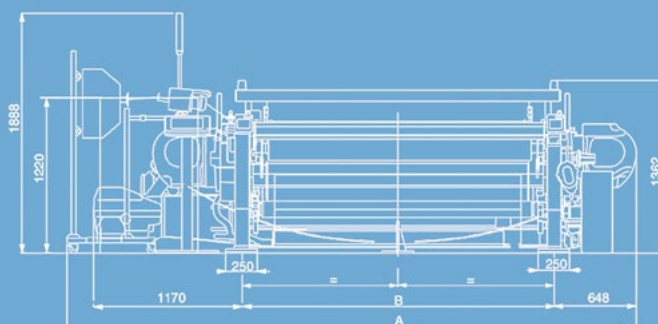
- Ethernet interface (Loom Browser only)
- Serial VDI interface: for bidirectional data transmission on request
- Parallel interface: for mono-directional data transmission on request



# R9000<sup>2</sup>



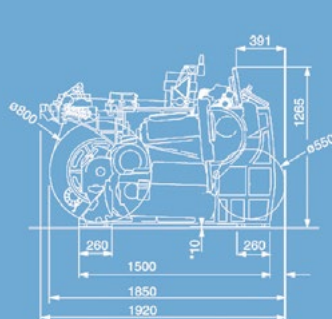
Nominal Machine Width	Machine Width A	Machine Width B
1900 mm	4500 mm	2470 mm
2100 mm	4700 mm	2670 mm
2200 mm	4800 mm	2770 mm
2300 mm	4900 mm	2870 mm
2600 mm	5200 mm	3170 mm
2800 mm	5400 mm	3370 mm
3000 mm	5600 mm	3570 mm
3200 mm	5800 mm	3770 mm
3400 mm	6000 mm	3970 mm
3600 mm	6200 mm	4170 mm
3800 mm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



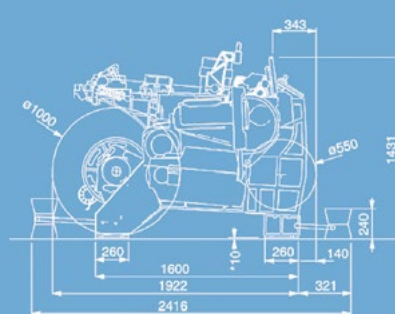
(\*) Machine Width 3800 mm only with SK Weft Transfer System

## Dimensions (mm)

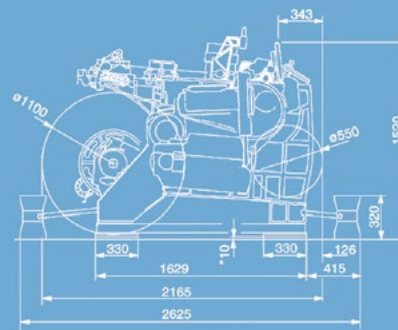
## Beam Arrangement



\*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*

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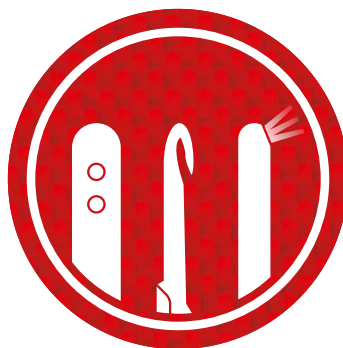
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意达纺织机械(中国)有限公司

2889  
11-15  
中國





# 3 TECHNOLOGIES



# 1 BRAND



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