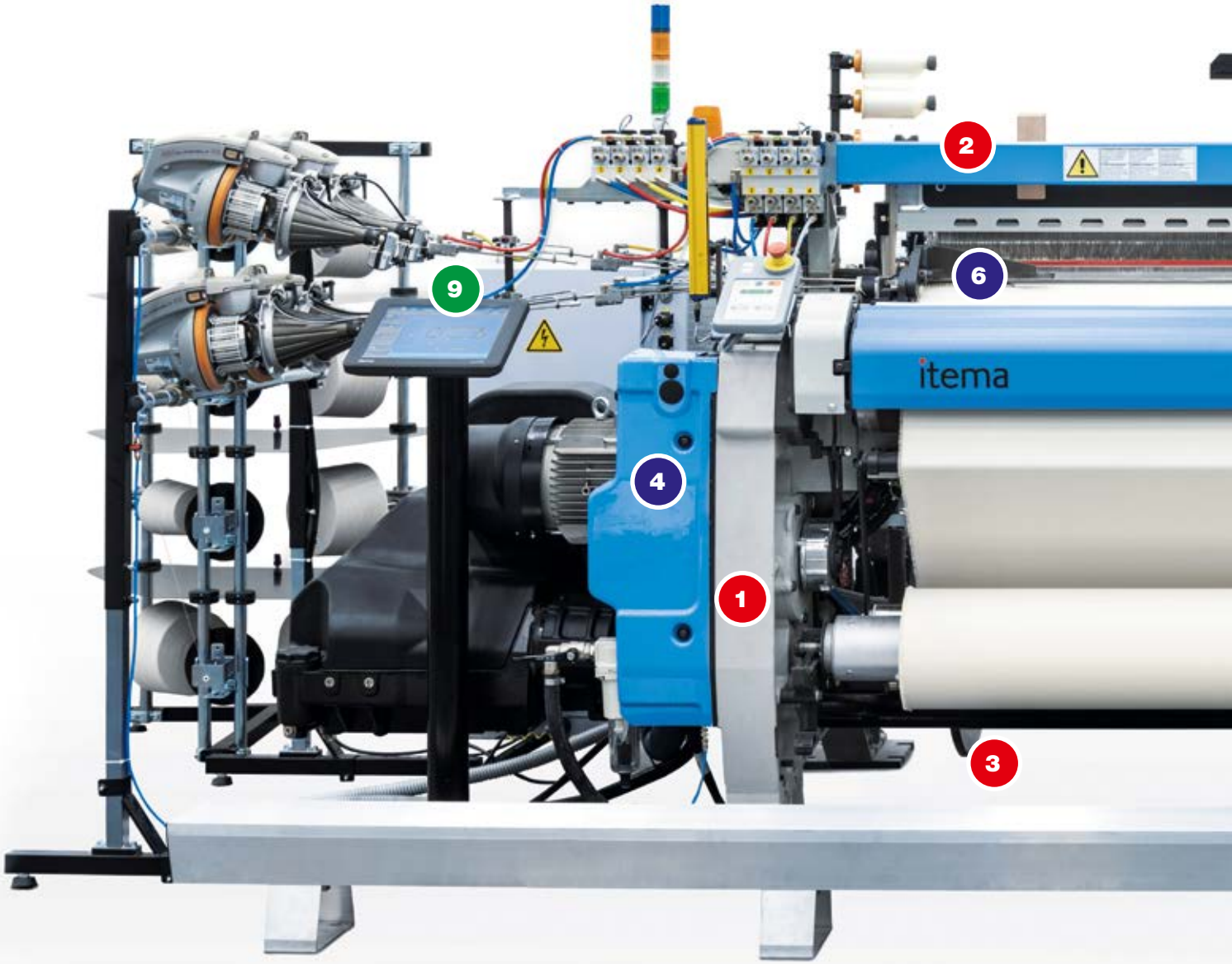
A9502

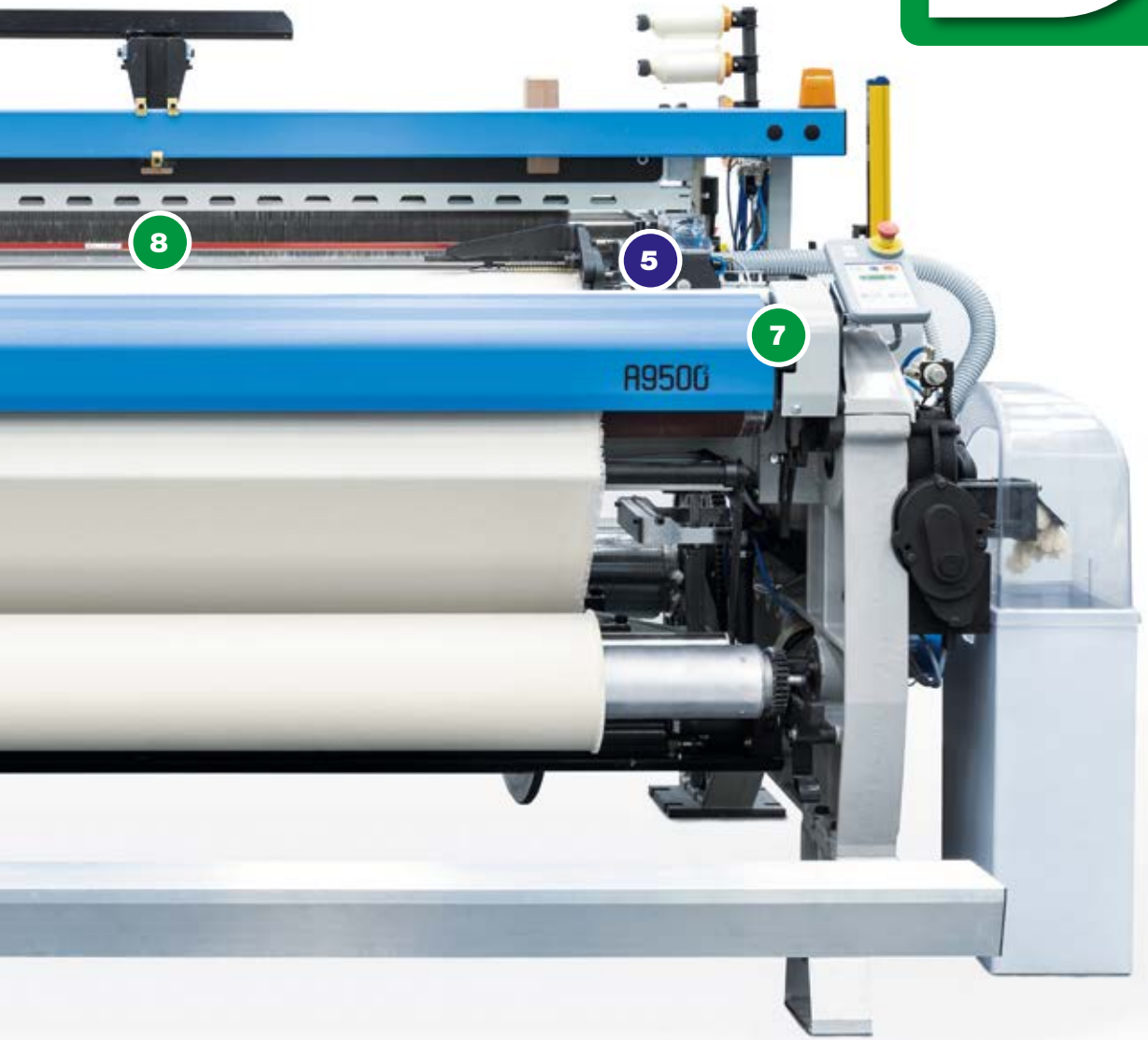
itema

A9500²



GREEN CERTIFIED

RINA
Certification of the Green Label issue process



UNPARALLELED WEAVING PERFORMANCES

1 New Machine Structure

The whole machine structure has been revised, the air tank capacity has been increased to ensure superior textile performances even at the highest speeds.

Optimal Weft Insertion at the Highest Speeds.

2 SKYFRAME by ItemaLab™ Heald Frames

Itema proprietary technology. Thanks to a special design and to an innovative use of aluminium and carbon fiber, the Itema SKYFRAME ensures superior lightness and sturdiness.

Combining the highest speeds with reliability and resistance.

3 QRP

2 Year Warranty

SUPERIOR FABRIC QUALITY AND VERSATILITY

4 Optimized Pneumatic Platform

Redesigned and optimized to further improve the weft insertion, the new pneumatic platform allows a quicker system responsiveness when handling air load and pressure. Moreover, air tanks find now their place in specific cavities located in the main machine frame leading to no vibrations and to increased reliability.

Optimal Weft Insertion Cycle Control.

5 New Bi-Power Stretch Nozzle

The brand-new Bi-Power stretch nozzle ensures perfect weft catching pick by pick. Compact, powerful and cordless, the Bi-Power stretch nozzle allows air consumption reduction and increased fabric quality by keeping the weft perfectly straight in the fabric.

Unmatched Fabric Quality and Textile Versatility.

6 Best-In-Class Itema Shed Geometry

Providing the perfect combination of long dwell sley movement and optimized position of the heald frames, the Itema Shed Geometry delivers the unsurpassed control of the fabric appearance while providing economic air consumption.

Superior Textile Efficiency.

COST SAVINGS AND EASE OF USE

7 Optimized Ergonomy

The A9500^2 features a lowered front frame to facilitate machine accessibility for the weaver when carrying out daily textile operations. Moreover, the new layout of the fabric formation area reduces style change downtime and enables easier maintenance operations.

Improved Machine Accessibility.

8 iREED

The new reed tunnel shape in combination with the new single hole relay nozzles optimize the air flow in the reed channel for a more efficient weft insertion. The air consumption is lower up to 23% and the air pressure level required is reduced.

Reduced Air Consumption.

9 iRTC

The Itema patented RTC (Real Time Control) software comes here in a new advanced version. Featuring further improved functionalities, the iRTC ensures the optimal monitoring of the weft insertion cycle by automatically minimizing relay nozzles blowing time by independently setting the timing of each valve for the latest opening and the earliest closing.

Reduced Air Consumption and Overruling of Incorrect Settings.

A9500² Airjet Weaving Machine

Combining the highest speeds with perfect weft insertion and maximum components reliability is no longer a dream. The Second Generation of the Itema airjet weaving machines, the A9500² comes fully loaded with Itema's premium innovations that set a new benchmark in airjet weaving.

The main machine structure has been reinforced—to guarantee maximum structural reliability and lowest vibrations, and re-designed to ensure an increased air tank capacity leading to superior textile performances.

Itema engineers focused in further improving the beating heart of the Itema airjet technology. As a result, the A9500² features a new optimized pneumatic platform where air tanks find their place in specific cavities enabling an optimal weft insertion control.

The new main machine structure and the new pneumatic platform ensure optimal insertion cycle both from textile and performances point of view. In fact, the constant control of air load and pressure put the machine in condition to weave perfectly whilst reducing energy consumption.

Saving is also guaranteed by iREED®, the Itema patented reed tunnel shape and position of the relay nozzle which optimize the air flow in the reed channel for a higher efficiency weft insertion.

Major contributor of the reduced air consumption of the Itema A9500² is the iRTC, the Itema patented software—now in a new and advanced version—that enables the ideal monitoring of the weft insertion cycle guaranteeing reduced air consumption and overruling of incorrect settings.

The best-in-class shed geometry—real flagship of Itema—is here supported by innovative nozzles to ensure unmatched fabric quality and textile versatility.

The Bi-Power stretch nozzle ensures an optimal weft yarns handling. Compact, powerful and cordless, the Bi-Power stretch nozzle allows air consumption reduction and increased fabric quality by keeping the weft perfectly straight in the fabric.

Further core advancement implemented on the A9500² are the brand-new SKYFRAME heald frames designed by the Itema advanced innovation hub ItemaLab™. Itema proprietary technology, SKYFRAME are made by aluminium and carbon establishing a new benchmark in the market by ensuring maximum reliability even when running at the highest speeds.

Last but not least, the user-experience has been further optimized thanks to a new machine ergonomy with a lowered front frame to improve machine accessibility.

Itema A9500²: all you need, exactly when you need it, as much as you need it.

Weaving has never been so easy, and now with the peace of mind of our QRP seal of Quality, Reliability and Performance.
Itema A9500² proudly carries the prestigious QRP seal.

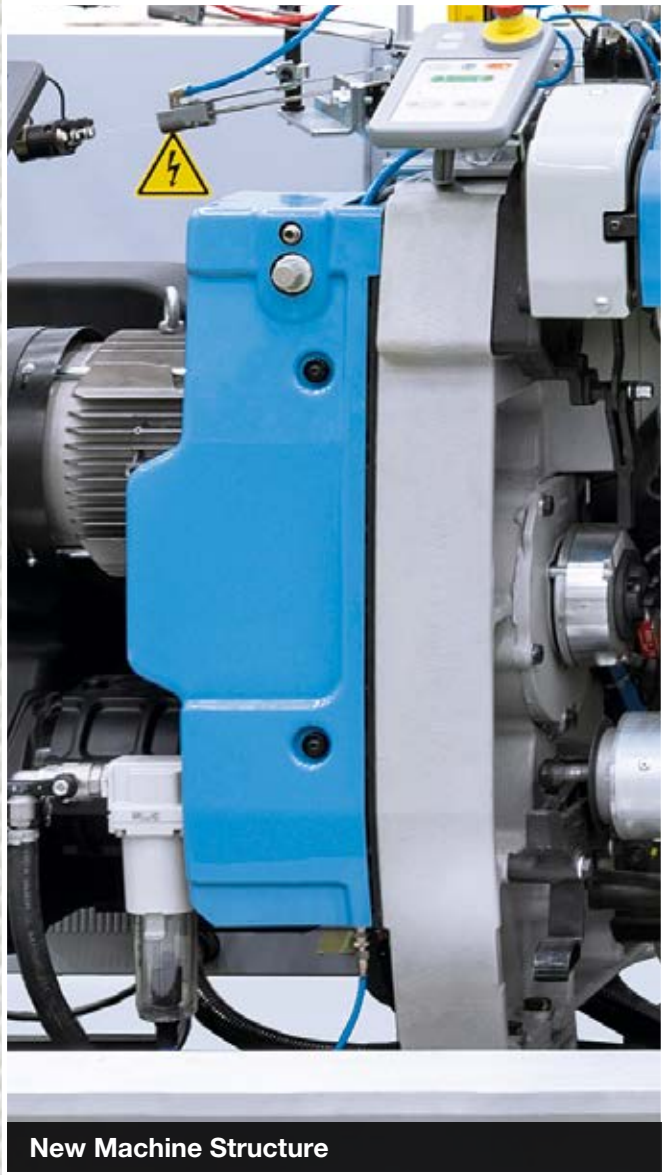
Itema is the only producer in the world to provide a 24 months extended warranty.

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

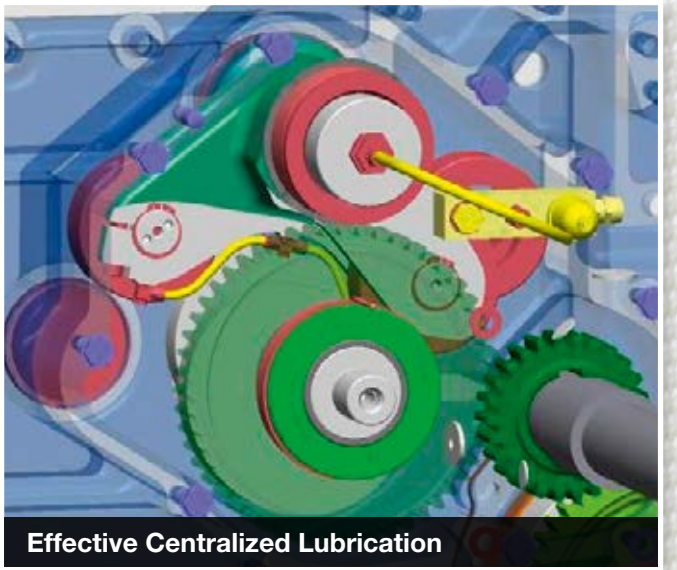
We are tireless in our search for ways to enable our Customers to meet and exceed their stringent expectations of product performance and solid investment return.

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.

A950G²



New Machine Structure



Effective Centralized Lubrication

Direct Drive Motor

The New Benchmark for Speed and Maximum Machine Performances

Unique in the market, the Itema A9500² has been designed to offer our Customers an avant-garde weaving machine, combining the mass productivity commonly recognized as a primary advantage of airjet weaving technology with advanced features guaranteeing unrivalled textile performances.

New Machine Structure

The whole A9500² machine structure has been redesigned leading to a double valuable advantage: lowest vibrations and superior textile performances.

The optimized machine design allows a superior air tank capacity enabling superior textile performances even at the highest speeds.

A9500² new machine structure, due to key reinforcement and increased tank capacity, guarantees an optimal weft insertion even when running at the highest speeds.

Effective Centralized Lubrication

Machine components are lubricated by the Centralized Lubrication System which provides oil from a main reservoir. Sley drive and gear lubrication is forced by means of a motorized pump.

The system lubricates directly all the moving parts assuring an efficient lubrication program, thus reducing related maintenance costs.

Avoiding an oil bath system for moving parts and gears, the A9500² lubrication system promotes lower oil temperatures, therefore extending the file cycle of mechanical components.

Reliability is further ensured by the NCP Electronic Platform, which allows a constant control of the system pressure and temperature.

Direct Drive Motor

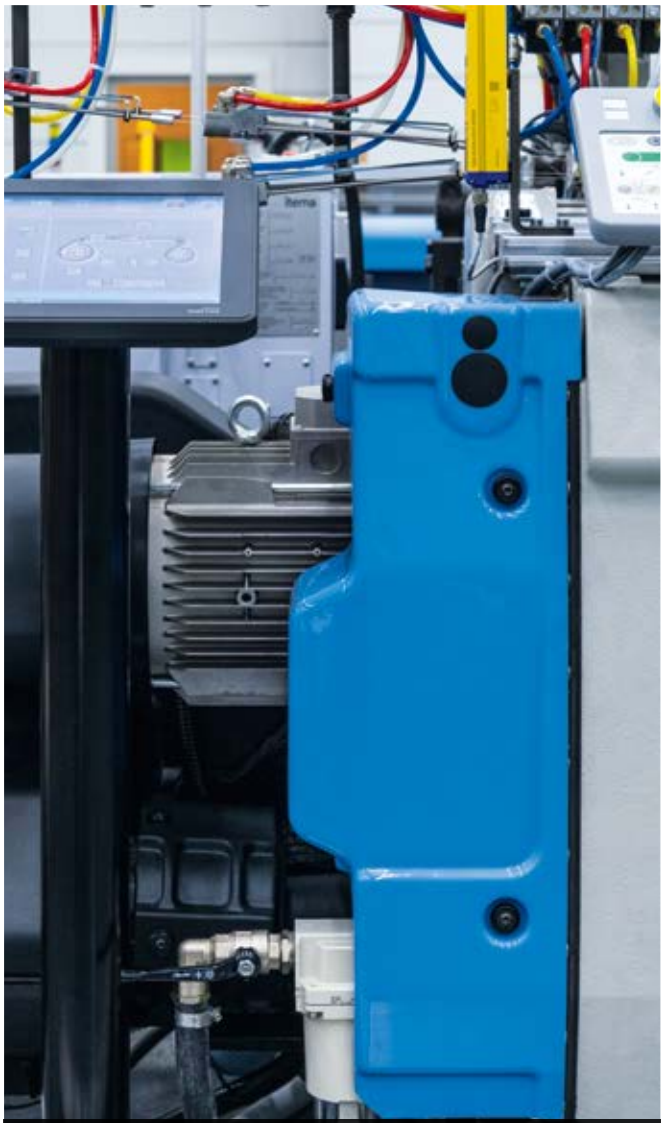
Simple, reliable, maintenance free, the Direct Drive Motor is a real Itema added value. The main unit is based on a brushless motor technology actuated by an electronic drive. Machine speed along with brake and start parameters can be easily set via the touch-screen interface, for a perfect control of all the running criteria, this representing an essential tool to prevent and solve start and stop mark issues and ensuring superior fabric quality.

Gearing and mechanical parts have been minimized, leading to reduced power consumption, spare parts and maintenance.

Optimized Ergonomy

The A9500² features a lowered front frame to facilitate machine accessibility for the weaver when carrying out daily textile operations thus leading to an optimized machine ergonomy.

A9500²



Optimized Pneumatic Platform

Optimized Shed Geometry

Beat-Up Options

Best-in-class Pneumatic Platform and Textile Performances

Optimized Pneumatic Platform

Major innovation featured on the A9500² is the optimization of the beating heart of the airjet insertion technology: the pneumatic platform. Redesigned and optimized to further improve the weft insertion, the new pneumatic platform allows a quicker system responsiveness when handling air load and pressure.

Moreover, air tanks find now their place in specific cavities located in the main machine frame leading to no vibrations and to increased reliability. Ensuring an optimal weft Insertion cycle control, the A9500² features the most advanced pneumatic system in the market.

Optimized Shed Geometry

The A9500² offers a unique shed geometry providing the perfect combination of a long dwell sley movement and an optimized position of the heald frames, to deliver the unsurpassed control of the fabric appearance while providing economic air consumption.

Positioning of the first frame closer to the beating point allows a shorter heald frame stroke providing lower stress on the warp, thus reducing stops and leading to an increased efficiency. At the same time, it allows higher speeds and longer life cycles for heddles and heald frames.

Beat-Up Options

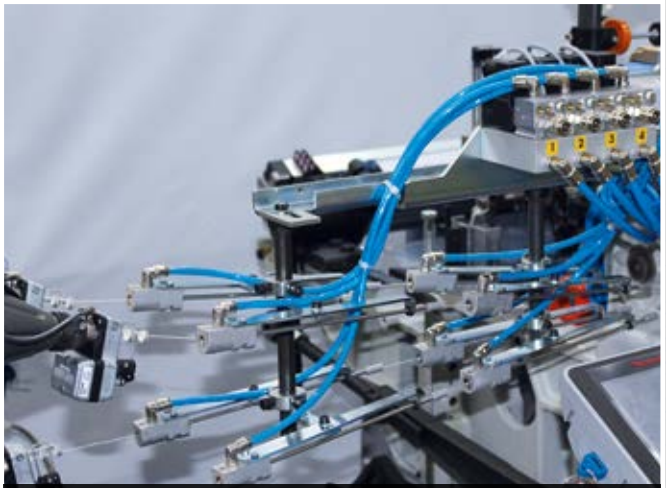
The beating motion of the A9500² consists in double conjugated cams placed within the side frames: a solution that sets the A9500² as the new benchmark for sturdiness, also due to the forced lubrication system without oil bath.

The longer dwell of the sley cam profile ensures an increased weft insertion time, thus leading to a more gentle movement during weft insertion and to reduced air consumption, providing an improved versatility and the widest range of fabrics and yarns to be woven with the airjet weaving technology.

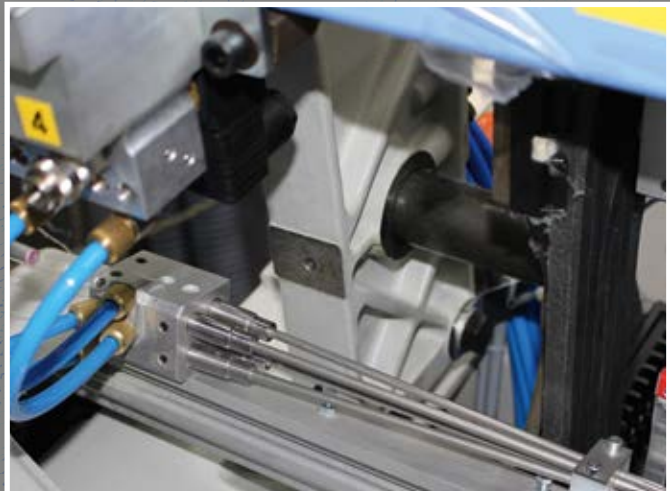
The higher beat-up force enables A9500² to reach the top performances in its technology field, especially when it comes to weaving difficult and complex styles, such as heavy fabrics.

New Bi-Power Stretch Nozzle

iREED® and Single Hole Relay Nozzle



Double Tandem Nozzles:
Efficiency and Superior Fabric Quality



BLC—The Useful Brush Lycra Clamp

Cost Savings, Superior Textile Performances and Increased Versatility

New Bi-Power Stretch Nozzle

The brand-new Bi-Power stretch nozzle ensures perfect weft catching pick by pick. Compact, powerful and cordless, the Bi-Power stretch nozzle allows air consumption reduction and increased fabric quality by keeping the weft perfectly straight in the fabric leading to unmatched fabric quality and textile versatility.

iREED® and Single Hole Relay Nozzle

The new reed tunnel shape in combination with the new single hole relay nozzle optimize the air flow in the reed channel for a more efficient weft insertion. The air consumption is lower up to 23% and the air pressure level required is reduced. The single hole relay nozzle, by far the best solution for energy cost saving, guarantees lower maintenance needs.

Double Tandem Nozzles: Efficiency and Superior Fabric Quality

The Itema newly designed double tandem nozzles is the perfect solution to couple high textile performances and reduced air consumption. In fact, the two nozzles ensure an ideal distribution of the pushing force on the weft using lower air pressure.

This effective solution brings two substantial benefits for the weaver: a superior fabric quality—due to reduced stress on the weft which ensures a lower stop rate—and a significant cost saving—thanks to the possibility to weave with lower pressure, resulting in an immediate reduction in air and energy consumption for the compressor's operations, due to less compressed air required.

BLC—The Useful Brush Lycra Clamp

The increasingly popular trend to weave stretch and super stretch fabrics with dedicated weft yarns inspired Itema to create and patent the innovative BLC—Brush Lycra Clamp—nozzle to weave elastic weft yarns. Available on request, the BLC nozzle holds the weft in place without movable parts to ensure superior fabric quality and reliability.

A9500²

SKYFRAME Heald Frames by ItemaLab™

The Effective ELD—Electronic Leno Device

Many Valuable Selvedge Formation Options

Superior Textile Performances and Outstanding Machine Reliability

SKYFRAME Heald Frames by ItemaLab™

Core advancement featured on the A9500² are the brand-new heald frames SKYFRAME, made of aluminium and carbon and designed by ItemaLab™ in cooperation with Lamiflex, an Itema Group company specialized in high performance composites. The Itema SKYFRAME, Itema exclusive proprietary technology, redefines the performances of the current heald frames available today on the market. Itema designed its own heald frames to answer our Customers specific needs. In fact, heald frames are a key components of the airjet technology and the Itema SKYFRAME, thanks to superior lightness and sturdiness, allows to run at the highest speeds without compromising reliability and resistance.

In addition, quick warp beam release and the redesigned heald frame connection DRC10 are standard on A9500², ensuring a substantial operational time reduction for the style change.

The Effective ELD— Electronic Leno Device

The ELD—Electronic Leno Device, patented by Itema, is the perfect solution for leno binding on high speed machines.

Simple, reliable and low-maintenance, with its innovative design, the device is self-cleaning and with no need to wind the leno spools, providing a perfect leno binding whilst reducing significantly operational costs.

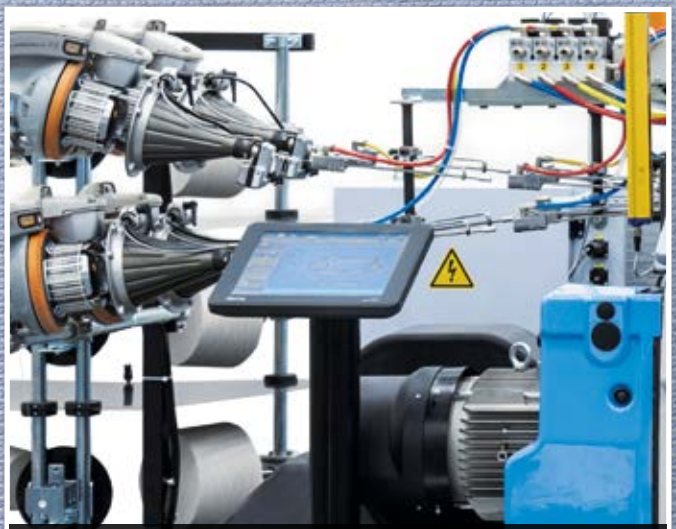
Many Valuable Selvedge Formation Options

A number of options are available for different selvedge formations. In addition to standard cutters, melting devices and air tuckers are also available. Moreover, the innovative ISD—Independent Selvedge Device, allows the use of different patterns to provide maximum flexibility for unsurpassed selvedge quality.

For cut reed and full width weaving, both side and center tuckers are provided. Simple and reliable, all the selvedge formation options are designed to function well even at the highest machine running speeds.

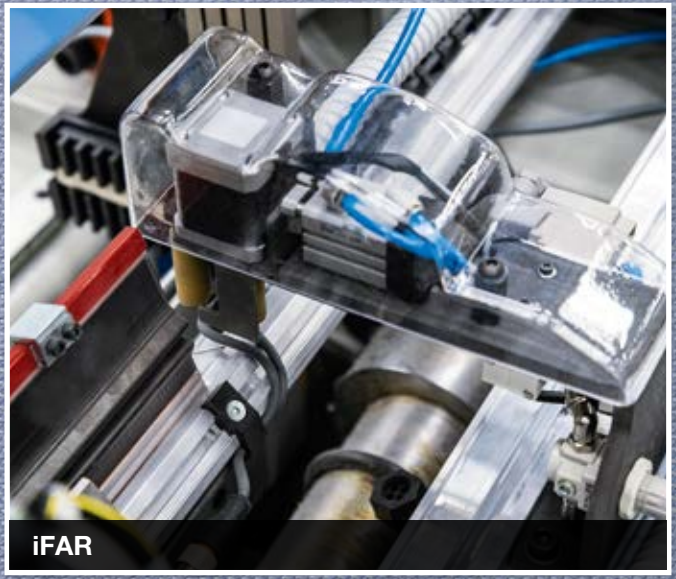
A9500²

Advanced iRTC software



Automatic Setting of the Relay Nozzle Pressure

iPOS



iFAR

Innovative Solutions for Cost Saving, Ease of Use and Higher Performances

Advanced iRTC software

The Itema patented RTC (Real Time Control) software comes on the A9500² in a new advanced version. Featuring further improved functionalities, the iRTC ensures the optimal monitoring of the weft insertion cycle by automatically minimizing relay nozzles blowing time by independently setting the timing of each valve for the latest opening and the earliest closing.

The innovative software ensures reduced air consumption and effectively overrules incorrect settings.

Moreover, thanks to the Air Consumption Metering the air consumption and the efficiency of the iRTC are available directly on the user interface and air leak testing is also possible leading to maximum ease of use for the operator.

Automatic Setting of the Relay Nozzle Pressure

The pressure on the relay nozzle tank can be set directly on the console, allowing the system to automatically control the pressure of the relay nozzle tank. The setting operations are easier and, furthermore, it is possible to store the pressure value in the style setting data. Only qualified personnel will have access to the pressure setting, avoiding extra air consumption due to incorrect settings, leading to energy saving.

PPC—Pneumatic Pressure Control

The PPC—Pneumatic Pressure Control system, has been developed by Itema to provide a superior control of the weft insertion.

With the Itema PPC, the pressure is perfectly driven in the main and tandem nozzles, guaranteeing a more gentle and constantly controlled air blowing.

The PPC, an Itema patented solution, combines effectiveness and reliability. The simple design, featuring high capacity tank for each weft insertion channel and high-precision sensors, ensures maximum textile efficiency during the weft insertion and reduced maintenance costs.

iPOS

Itema Production Optimization System iPOS—is a patented software designed to increase the productivity of the machine. The system increases machine productivity by monitoring machine speed and stop level. By simply establishing stop and efficiency parameters, the iPOS carefully monitors the machine data over a given period of time. If the machine falls outside the given guidelines, the system automatically adjusts the machine's speed to optimize productivity, increasing production and improving fabric quality.

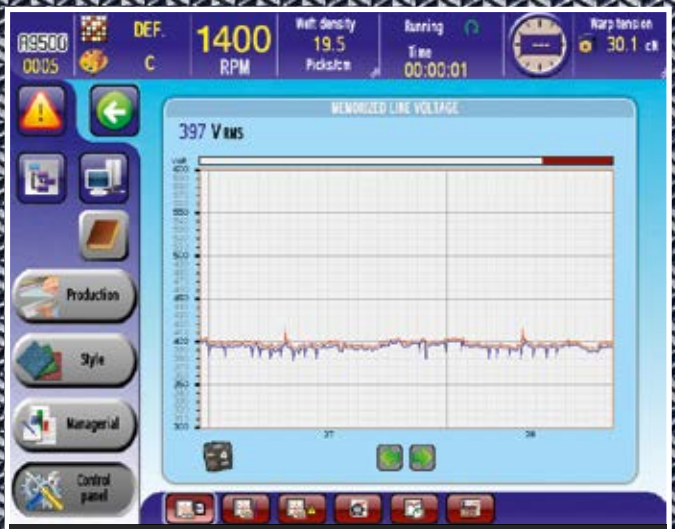
iFAR

The Itema Filling Automatic Repair provides automatic repair of short picks and restart of the machine leading to reduced machine downtime.

A9500²

Latest Generation Touch Screen Console

State of the Art Technology



On Board Diagnostics

iMANAGER—Your Itema Plant Management System

Outstanding User-Experience

Latest Generation Touch Screen Console

The A9500² 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.

State of the Art Technology

The machine utilizes "State of the Art" Microprocessor Technology with a PC Board running Linux to drive the user interface. Ethernet connectivity, in combination with one or more of Itema's interactive options, allows the A9500² to quickly engage both the mill network and Internet.

With a standard USB memory stick saving, changing or transferring machine settings has never been easier.

On Board Diagnostics

At Itema, we recognize time is money. This is why we equipped the A9500² with our best diagnostic software ever!

By simply accessing the touch screen, a functionality test can be selected for any device or application on the machine—even circuit boards. Our Engineers specifically designed this feature to be utilized without tools or a background in electronics but by the people on the floor who operate the machine.

iMANAGER—Your Itema Plant Management System

iMANAGER is the Itema latest mill management system that brings on a PC desktop all the relevant data and information about the weaving plant. iMANAGER provides an easy remote access to machine data via computer and mobile devices, such as tablets and smartphones.

Itema's innovative decision-enabling suite is made possible thanks to an embedded SIM card connection via a web server.

It is now possible for you to see in real time the actual status of your machines, the textile data and settings, as well as to view and download machine statistics on an Excel spreadsheet, giving you essential information about the operation of your weaving machine. Moreover, with iMANAGER you can easily monitor plant efficiency and access your machines' styles archive to quickly replicate designs on different looms.

A9500²

MACHINE MAIN SPECIFICATIONS

Nominal Machine Width	190-210-220-230-260-280-300-320-340-360	
With Reduction	Standard 80 cm Optional up to 100 cm	
Yarn Range	Spun Yarns	Ne 3 – Ne 100
	Filament Yarns	20 dtex – 2000 dtex

WEFT INSERTION

Number of colors	up to 6 colors	
Weft cutter	Programmable electronic weft cutter	Standard
Main and tandem nozzle		Standard
Double tandem nozzle		Optional
PPC Pneumatic pressure control		Standard
RNP Relay nozzle pressure from loom terminal		Standard
4 relay nozzle per valve		Standard
2 relay nozzle per valve		Optional
BLC Brush Lycra Clamp		Optional
ASC Automatic color selection change		Standard
Multipick insertion, up to 8 picks		Optional
Airmetering air consumption monitoring system		Optional
iRTC Real time insertion control		Optional
Pneumatic iFAR, for filament		Optional
Mechanical iFAR, for all fabrics		Optional
Single and multihole relay nozzles		Standard

WEFT FEEDERS

Weft feeders with separeted coils		Standard
	Funnel ballon brake	Standard
	Programmable electronic weft brake	Standard
	Bobbin change detector	Optional
	Knot detector with automatic scrap	Optional

REED

Standard profile reed		
iREED (patent pending)		Optional
Reed drive	Conjugated cam units	Standard

WARP LET-OFF

Warp beam diameter	800, 1000, 1100 mm	
Twin warp beam for wide looms (from 260 cm)		Optional
Top beam		Optional
Back-rest roller	Double roller with positive drive	
	Double roller with springs	
Reinforced double back-rest roller		Optional
Warp Stop Motion	6 bar electrical 25 mm or 30 mm pitch	Standard
	8 bar electrical 16 mm pitch	Standard

FABRIC TAKE-UP

Electronic controlled take-up	Internal cloth roller up to 550 mm	Standard
	Prepared for external batcher up to 1500 mm	Optional
	Single press-roller	Standard
	Double press-roller	Optional
	Partially threaded fabric deviating bar	Standard
	Smoth fabric deviating bar	Optional
Fabric inspection area	LED lamp for reed area	Optional
	LED lamp for fabric inspection	Optional
Pick density	10–150 picks/cm	Standard
	2–50 picks/cm	Optional

A9500² at a glance

MACHINE DRIVE		
Main Motor	Direct drive with brushless motor	Standard
Shedding Motion	Heald frame connection DRC10	Standard
	QFC quick frame connection	Optional
Shedding machine	Stäubli cam motion model 1691/2, up to 8 shafts, with/without levelling device	
	Stäubli cam motion model 1781, up to 10 shafts, with/without levelling device	
	Stäubli cam motion model 1792, up to 10 shafts, with/without levelling device	
	Stäubli dobby model 3060 or 3260, up to 16 shafts	
	Prepared for motorized Jacquard	
Machine control	Latest generation touch screen console with color display	Standard
Options	Power outlet on electrical panel 220V-16A	Optional
	Push-button on electrical cabinet for warp movement	Optional

HARNESS FRAMES	
Aluminum profile	Standard
Aluminum with carbon reinforcement	Optional

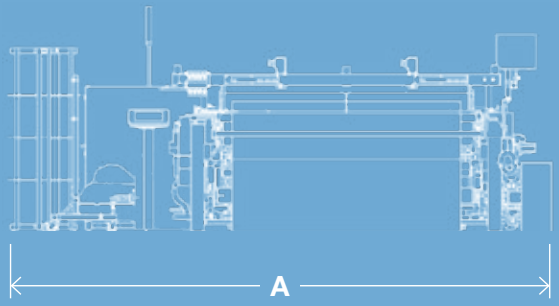
SELVEDGE FORMATION	
Itema ELD electronic leno device or RLD planetary leno device	Standard
Lateral and central tuckers for cut or full reed versions	Optional
Thermo cutters	Optional
ISD independent selvedge device, for lateral & central selvedge	Optional
Full width temple	Optional

CONNECTIVITY	
On board diagnostics	Standard
Parallel interface: for monodirectional data transmission	Optional
Serial VDI interface: for bidirectional data transmission	Optional
Ethernet interface for iMANAGER	Optional
iPOS	Optional

A950i²

Weaving width	Machine width (A)*
1900 mm	4560 mm
2100 mm	4760 mm
2200 mm	4860 mm
2300 mm	4960 mm
2600 mm	5260 mm
2800 mm	5460 mm
3000 mm	5660 mm
3200 mm	5860 mm
3400 mm	6060 mm
3600 mm	6260 mm

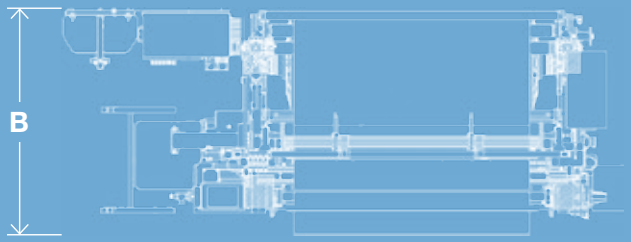
(*) Dimensions may change depending on the type of creel used



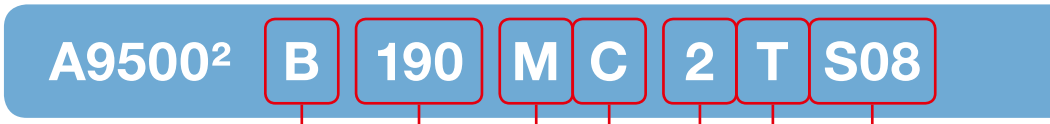
Overall depth (B)

with 800 mm warp beam	1767 mm (**)
with 1000 mm warp beam	1979 mm (**)
with 1100 mm warp beam	2029 mm (**)

(**) foot boards excluded



Dimensions (mm)



Raw Material

B *Cotton*
S *Filament*

Nominal Machine Width (cm)

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

Sley Drive

M *Cam*

Reed Arrangement

C *Cut Reed*
F *Full Width Reed*

Weft Colors

2, 4, 6

Shedding

T *Tappet Motion*
D *Dobby*
J *Preparation for Motorized Jacquard*

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*

A9500²

AIRJET

The Second Generation of the Itema airjet weaving machine comes now to the market optimized to ensure best-in-class performances, unparalleled cost savings and utmost textile efficiency.

QRP

2 Year Warranty

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**

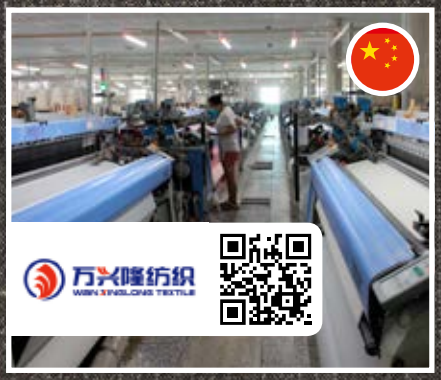
We have **6**
Itema Campus
Locations:

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

WEAVING EXCELLENCE *with the Itema A9500²*

Our Customers, our Pride

Scan the QR Code and listen to our Customers excellence story



Itema worldwide

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, airjet 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**.

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