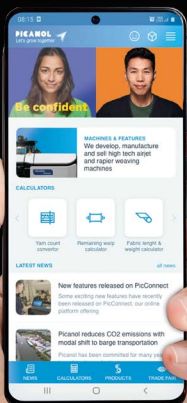


PICANOL 
Let's grow together

Experience the all-new,
revolutionary Supermax.



Download
the **Picanol app**
or visit our **website**
www.picanol.be



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FOR THE APP

ENGLISH



Be confident.

Our business environment has always been uncertain and ever-changing. Yet, the speed, intensity, and impact of these changes have increased dramatically over the last few years.

In such challenging times, there are two possible ways to respond. Either you take shelter and wait for the storm to blow over or you can, despite everything, keep planning and keep looking for growth.

To do so, you need a solid dose of confidence. You need to genuinely believe that you are able to cope with all the challenges the future brings. Such confidence can't be bought. But you can grow it. By being well-supported and surrounded by the right people.

For our customers and partners, Picanol wants to be that partner who provides outstanding support. By offering you every opportunity to shape your future with confidence, whatever challenge comes your way.

And with the new Supermax rapier machine, Picanol is clearly proving its confidence in the future. More than 85 years of experience in building weaving machines has given us the solid basis to completely rethink the current concepts.

Today, our entire team is very proud and confident to reveal the Supermax. And we are happy and eager to share this feeling of optimism and confidence with you. It makes us smile, and we're sure it will make you smile too.

Because we are truly convinced that the all-new and revolutionary Supermax will give you the necessary confidence to cope with any future challenges.

Let's grow together.



They say smiling is contagious.
Click on the image or scan the QR code and discover how this confidence makes us all feel at Picanol.



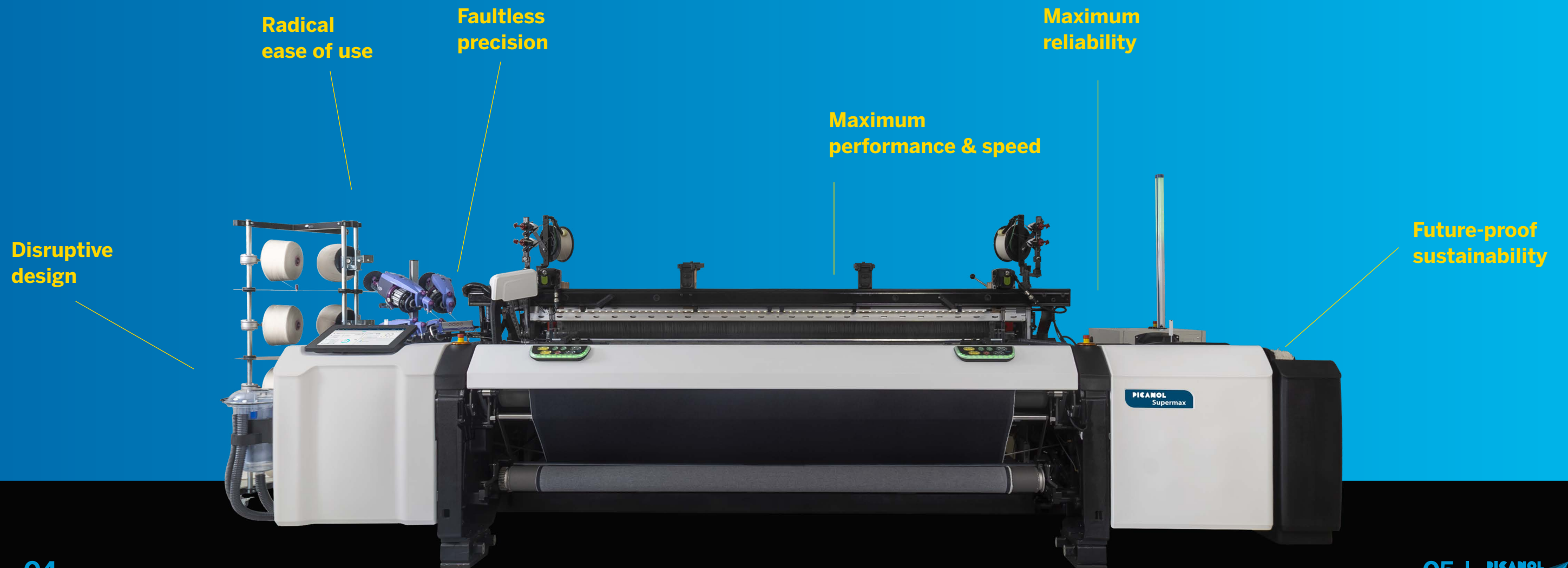
Supermax

Are you ready for the super weaving experience?

When designing the new Supermax rapier machine, we focused on the following three aspects:

- **Maximum performance** and **high-quality output**
- Readiness for the **sustainability requirements** of tomorrow
- The greatest ease of use, thanks to a **maximum level of digitization**

This means that Supermax is - more than ever - a machine developed by design with our four design principles in mind: **Sustainability Inside**, **Driven by Data**, **Smart Performance**, and **Intuitive Control**. Enabled by our digital platform **PicConnect**, the monitoring of both individual machines, as well as the entire weaving mill, will become much easier than before and will give you **unprecedented control**.



Our design principles: how we build our machines.

Today's world is all about connectivity, user-centric design, intuitive controls, self-learning capacities, and sustainability ... to name just a few. When designing a new machine, we take these ever-evolving requirements as benchmarks for all our innovations and improvements.

That's why Smart Performance, Sustainability Inside, Driven by Data, and Intuitive Control have become the basic principles of any Picanol weaving machine. Together, they enable you to follow your weaving instincts and get the best possible results on all our platforms.



Smart Performance

Performance is the first requirement for any machine or feature. The obvious indicator for this is the theoretical maximum speed. Very often, however, the gap between this theoretical speed and the effective speed under real-life conditions is huge.

That's why we design our machines around the principle of Smart Performance: **intelligent machine design**, which enables **the highest possible practical speed** and **best performance under all conditions**.



Sustainability Inside

When it comes to preventing waste and reducing energy consumption, for many years Picanol has faced up to its responsibilities. Our machines are designed with a built-in capacity for sustainability: **energy efficiency** and **smart use of resources** are at the heart of all our platforms.



Driven by Data

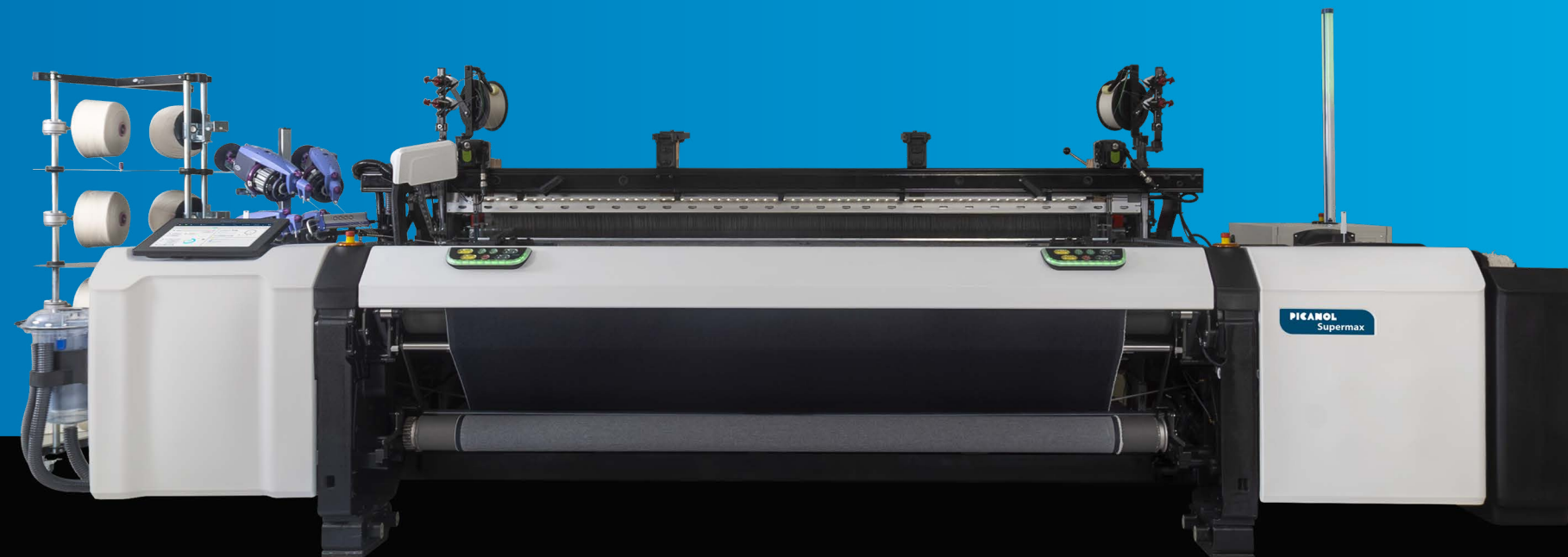
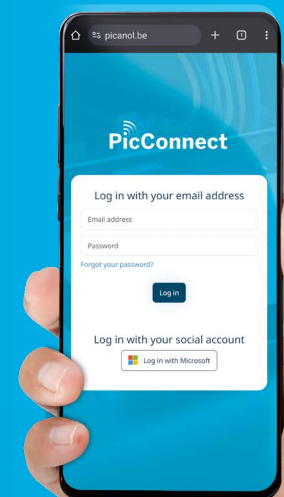
Digitization has become increasingly important over the last few decades and this will continue to be the case. All kinds of machine and contextual data have to be captured and made available for **artificial intelligence**, making production more efficient. Enabled by our digital platform **PicConnect**, we are at the forefront of digitization, offering you the smartest way to manage your weaving machines.



Intuitive Control

Children nowadays handle new technology **effortlessly and intuitively**. And that's what we want for our machines as well. Just like with your smartphone or in your car, **the interactive machine display** is the interface that controls almost all the machine functions. This **user-centric approach** is also embedded in the design of the overall machine, making all operations easy, intuitive, and self-explanatory.

**Are you ready for the
era of intuitive weaving?**
Read all about PicConnect at
www.picanol.be/intuitiveweaving





Gentle treatment of all kinds of yarn

From the **detection of the weft yarn** to the unique **QuickStep** weft presenter and the **Mechanical weft cutter**, everything has been designed throughout to handle the **widest variety of weft yarns** in the smoothest way possible.

The QuickStep weft presenter operates with independent modules, each of which consists of an electronically controlled stepper motor with a presenter needle. The modules are interchangeable and there are no mechanical drives. Therefore, no maintenance or lubrication is required.

Maximum performance

The Supermax can be equipped with the most suitable rapier system depending on whether you are looking for **high speed** or **ultimate versatility**.

The platform has been designed to enable the fastest rapier weaving machine with the Guided Gripper version (GC). The Free Flight with the raceboard execution (VB) ensures the best solution for filament warp yarns, in combination with maximum weft versatility.



Robust structure and optimal shed geometry - the solid basis for performance

The completely new loom structure relies on the proven Picanol concept combining **two solid side frames** that are connected by **large-section cross rails**. All of the moving parts have been optimized to minimize the moving masses. The sley is driven by conjugated cams located under the fabric line to guarantee equal beat-up force over the full width. The optimized shed geometry leads to uniform fabric characteristics over the entire width.



Future-proof thanks to the modular design

The rapier machines can be fitted with an **electronic, positive Dobby** with levelling for up to 20 harness frames, or with an **electronically controlled Jacquard**.



The machine is ready to mount a **superstructure**, which makes it possible to add, for example, a name selvedge jacquard or an additional top-mounted warp beam with separate let-off motion. The tension in both sets of warp yarns is individually controlled by the microprocessor.

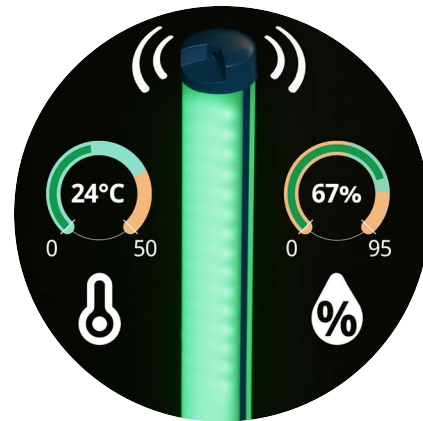


Designed to weave recycled yarns

The machine design is created with the use of **recycled yarns** in mind. Cabling and oil tubes are wherever possible integrated. The upper profile has integrated blowing devices to eliminate dust above the fabric.

The data you need to optimize your climatization

Each Picanol machine features an **integrated temperature and humidity sensor**. The data from the sensor can be accessed either through the BlueTouch display or via PicConnect. By monitoring these conditions, you can **optimize energy usage** in your weaving room.



The most energy-efficient main drive on the market

The redesigned **SUMO** drive concept pioneered by Picanol is the **most energy-efficient main drive** on the market. The oil-cooled SUMO main motor ensures the lowest possible energy consumption while simultaneously offering many other advantages such as **full-range speed control, slow motion, full pick finding**, and even **automatic crossing setting**. The new integrated temperature sensor completes the redesign.



The shortest drive train



Thanks to the **SUMO main motor** and the **shortest drive train**, Picanol offers the **most energy-efficient machines** on the market. With only 4 gears, the main motor drives the sley drive, the rapier drives, and the shedding motion. In addition, the SUMO motor also takes care of the slow motion movements. Therefore, there is no need for extra slow-motion drive systems, invertors, etc., and additional energy consumption can be avoided.



Sustainability Inside



Lowest possible energy consumption with the electronic take-up and let-off

The Supermax comes as standard with **electronically controlled take-up and let-off** mechanisms. Both are driven by SUMO-type motors, which are synchronized through the integrated control box. The forced lubrication in the gearbox keeps components cool and significantly reduces friction, resulting in **low energy consumption**.



Smart energy use thanks to optimized lubrication

As well as **filtering and cooling the oil**, the integrated lubrication system with central oil circulation brings the **optimum amount of oil** to all the crucial points in the machine. This not only **extends the lifetime** of the components but also assures the **lowest possible levels of energy consumption**.

The highest level of digitization

The 15.6" BlueTouch display features a capacitive touchscreen, which makes it an ideal tool for data handling and visualization. This is exemplified through the **Sensor dashboard**, which visualizes key data captured by the sensors, and the **Action center with logbook** functionality.



The reliable electronic platform, ready for Industry 4.0

The **BlueBox electronic platform** enhances data handling capabilities, providing new opportunities for optimizing production efficiency. Combined with its well-established reliability, the BlueBox sets the industry benchmark for electronic platforms. It features cutting-edge hardware and software, a robust and modular circuit board configuration, and efficient heat management.



Driven by Data



Artificial Intelligence in your weaving mill

PicConnect is the gateway to all of **Picanol's digital services**, from industrial IoT to service-related applications. PicConnect enabled means that the machine is ready to fully leverage the various PicConnect applications.



Data-based remote service

The **Customer Service File (CSF)** enables Picanol to easily access service-related data within the machine. This ensures that remote diagnosis is highly efficient, which allows timely actions to address any potential issues.

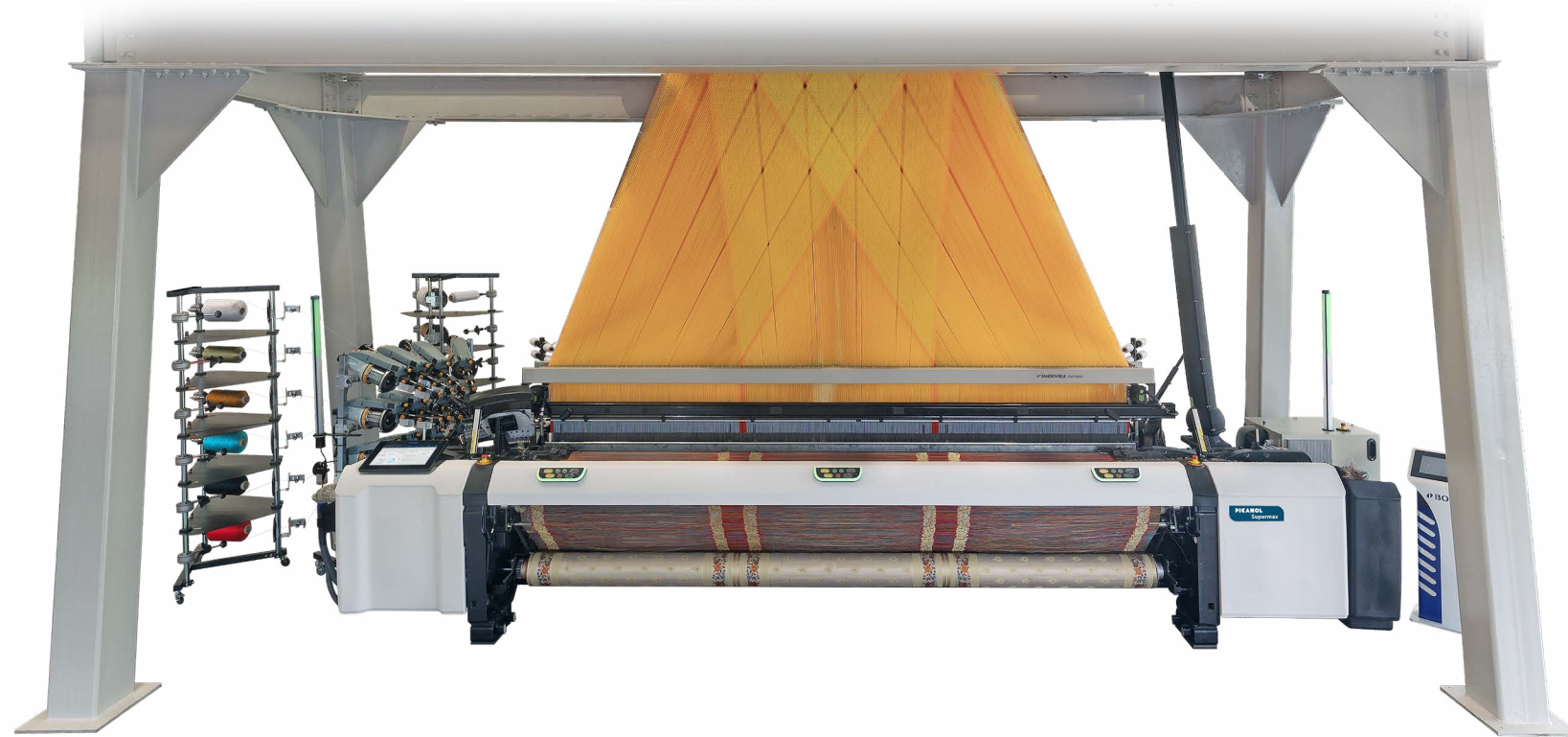
Full and quick data control at your fingertips



The advanced **15.6" BlueTouch display** provides **quick access** and **control of all settings**. The interface prioritizes user-friendliness and intuitive control. When connected to the internet, the integrated **browser functionality** enables users to access web pages directly from the machine display, including instructional videos. Furthermore, the **setting manual** is seamlessly integrated into the display and specifically tailored to the weaving machine.

Clear visibility of the machine status

The **LED signal torch** and the **LED strip on the push buttons** are synchronized. Furthermore, users can fully customize the behavior of these features.



Enjoy operating the machine

Alongside the **user-friendly features** inherent to all Picanol machines, handling the Supermax is further facilitated by **innovative design elements**.

The front height of the machine is **unusually low**, which enhances accessibility. Conveniently placed push buttons utilize **metal dome technology** and provide **optical command confirmation**. Crucially, all of the main settings are positioned above the fabric line and they can be adjusted by a single person. In addition, standard features include the quick and straightforward locking and unlocking of the warp beam and cloth roll.



The ease of width changes in a minimal amount of time

A **software-assisted display procedure** minimizes the time required for width changes. All components related to width adjustments are mounted on a **single support**, which enables easy positioning.



Intuitive Control

Supermax

Technical specifications

* patented
** patent pending

Fabric specifications

Useful widths	190, 220, 230, 240, 250, 340, 360 and 380 cm		
Width reduction	80 - 100 cm depending on reed width		
Yarn range	Spun yarns	Nm 200 - Nm 3	Ne 118 - Ne 1.8
		Free Flight up to Nm 1	Ne 0.6
	Filament yarns	20 den - 3,000 den	22 dtex - 3,300 dtex
		Free Flight as fine as 10 den	11 dtex

Standard Optional Aftermarket

Weft insertion

Weft selection	Up to 12 colors or yarn types	•	-	•
	Weaving 2 weft yarns simultaneously	-	•	•
Grippers		•	-	-
	GC - Guided Gripper	-	•	•
	FF - Free Flight Gripper	-	•	•
Prewinders & options	PSO - Prewinder Switch-Off	•	-	•
Weft detector	Piezo-electric weft detector with anti-2 protection	•	-	•
Weft cutter	Mechanical weft cutter	•	-	•

Warp let-off

Let-off system	ELO - Electronically controlled Let-Off	•	-	•
Warp beam	Diameter 805 mm - 1,000 mm	•	-	•
	Fancy beam system on top	-	•	•
Backrest	Double backrest rollers	•	-	•
	TSF - warp tension sensor in the feeler	•	-	•
	Warp tension compensation with springs	•	-	•
Electrical warp stop motion	6 contact bars 25 mm pitch or 8 contact bars 16 mm pitch	•	-	•

Cloth take-up

Take-up system	ETU - Electronically controlled Take-Up	•	-	•
Cloth take-up	Double pressure roller	•	-	•
	Diameter of cloth roll	550 mm (warp beam 805 mm)	•	-
		600 mm for larger beams	•	-
	PBM - Picanol Batching Motion (up to diameter 1,500 mm)	-	•	-
Fabric illumination	LED illumination above reed	-	•	•

Machine drive and control

Main control	BlueBox electronic platform	•	-	-
Main motor	SUMO main motor with direct machine drive	•	-	•
	OptiSpeed (automatic stepless speed variation)	•	-	-
	Automatic full pickfinding *	•	-	-
Sley motion	Positive conjugated cam units (2 or 3 depending on machine width)	•	-	-
Shedding motion		•	-	-
	Positive dobby (R) max 20 harness frames, with levelling	-	•	•
	Execution for electronic jacquard (J)	-	•	•
	AKM - electronic setting of the crossing moment	•	-	-
Lubrication	Centralized lubrication, forced circulation of filtered oil to all major drive functions	•	-	-
Interactive display	15.6" BlueTouch display	•	-	•
Smart signal lights	Pushbuttons on front panel with integrated signal lights *	•	-	•
	LED signal torch *	•	-	•

Standard Optional Aftermarket

Harness frames

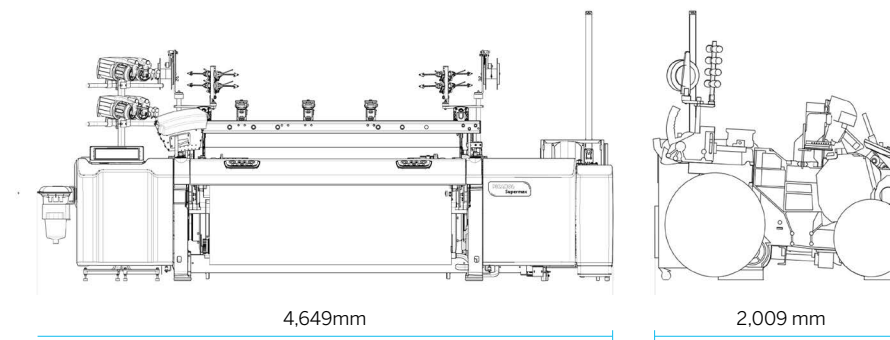
Driving element	Harness drive DRC2	•	-	-
Harness frames	For 13" or 15" heddles	•	-	•

Selvedge formation

Selvedge systems	ELSY - independent electronically controlled selvedge system	LHS / RHS	•	-	•
Selvedge cutters	Electronic cutter	LHS / RHS	•	-	•
		center	-	•	•
Temples	Cylinder temples		•	-	•

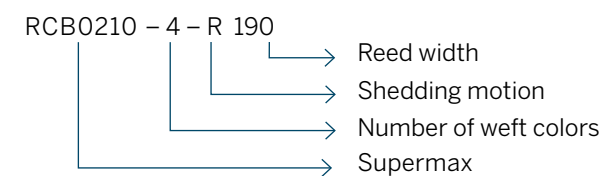
Monitoring and software tools

BlueTouch display	Loom monitoring and reporting	•	-	-
	Browser functionality	•	-	-
	Action center (including Logbook)	•	-	-
	Machine manual + Context based assistance	•	-	-
	Sensor dashboard	•	-	-
	Shed calculation	•	-	-
PicConnect enabled		•	-	-
Climate monitoring		•	-	-



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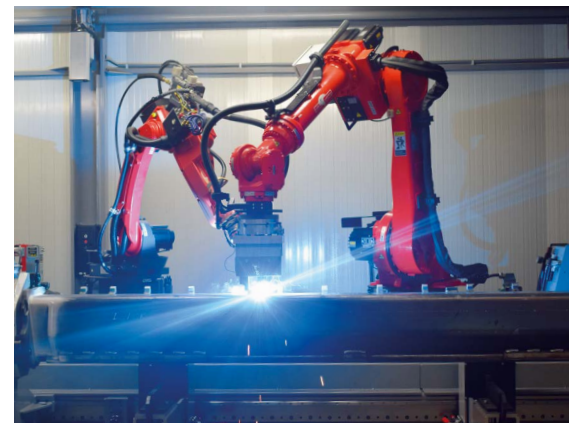
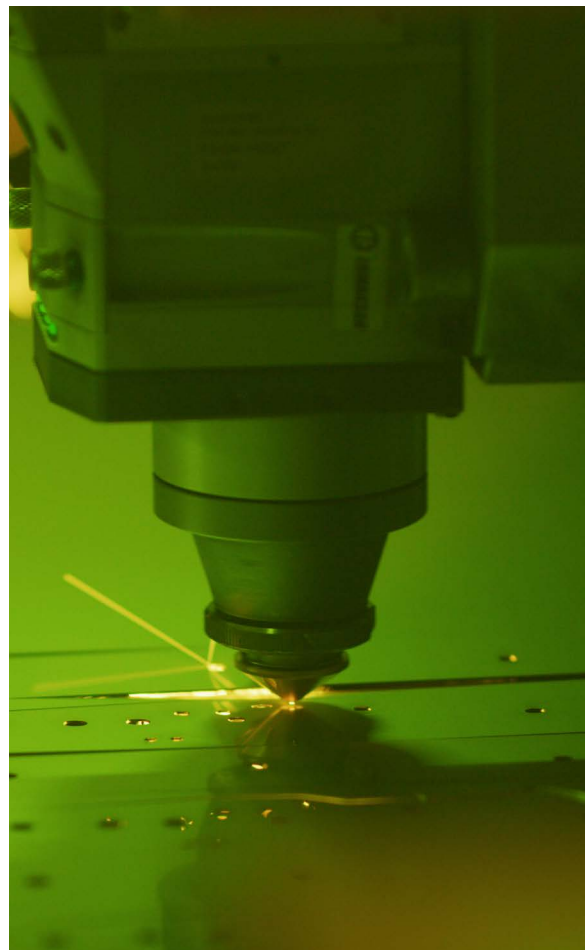
How to read the name



Regulations

In designing the Supermax Picanol has taken into account current international regulations concerning safety (mechanical and electric) and the environment (ergonomics, noise, vibrations, and electromagnetic compatibility).

Built in the factory of the future



Training is part of the deal Picanol makes with its customers

Providing training is part of Picanol's commitment to its customers. We consider it our duty to help your employees in terms of improving their skills and knowledge. Well-trained employees are crucial for ensuring optimal machine performance, excellent fabric quality, and a high level of plant efficiency.

Picanol's training centers are strategically located in Ieper (Belgium), Suzhou (China), Greenville (USA), Lahore (Pakistan), and Tashkent (Uzbekistan). These centers specialize in providing technical training on Picanol weaving machines for operators, fitters, and managers. Our courses are offered in English, Dutch, French, German, Spanish, and Chinese, with other languages available upon request.



Spare Parts & Weave-Up

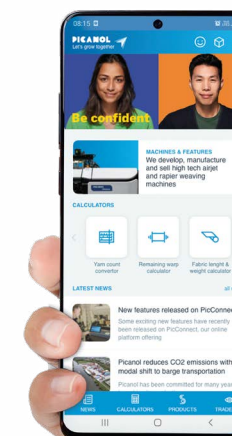
Weaving machines are one of your most important investments. Keeping them in optimal condition is essential to safeguard the high value of this asset and to remain competitive as a weaver in a globalizing world.

Use of original Picanol parts guarantees a continued high performance of the Picanol weaving machines.

Moreover, timely replacement of original parts enables Picanol's customers to run their machines in the most economical way.

Regardless of the age of the machine, the use of original parts will keep the machine in top condition which has a positive influence on the value of the machine throughout its life time.

Furthermore, to expand your weaving range and/or increase your machine performance, Picanol offers upgrade packages for installed Picanol machines. Weave-Up upgrades add state-of-the-art technology to your machines, which apart from the benefits in weaving equally increase the value of your investment.



Download the **Picanol app** or visit our **website** www.picanol.be

Curious about our upcoming news?

Download our new app on your mobile phone or tablet and thanks to the news notifications feature you will be the first to know about all our innovations. This app is updated frequently so keep an eye out for new arrivals and updates.

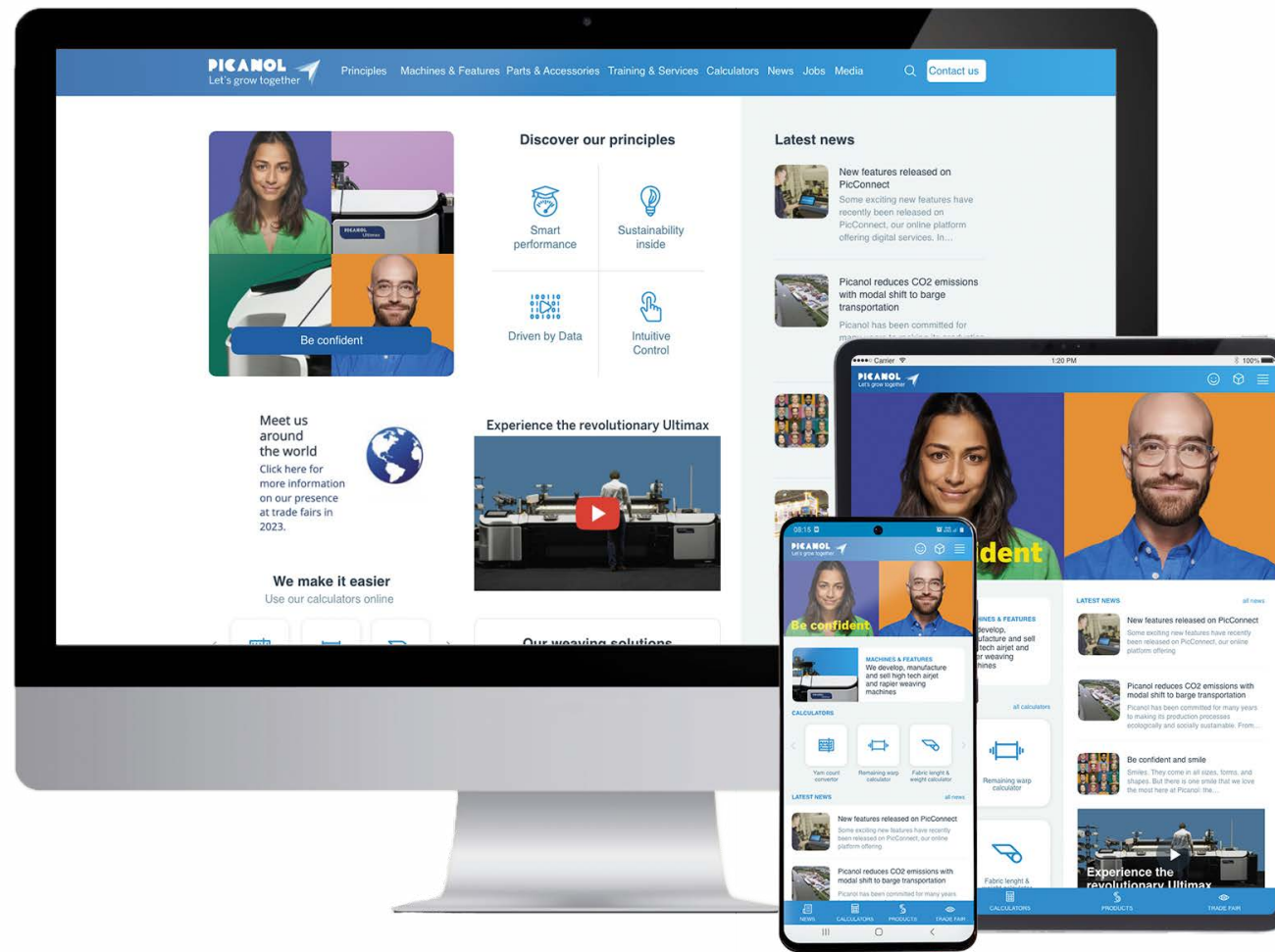
You can also subscribe to our newsletter at www.picanol.be/newsletter to be the first to learn about our latest news, updates and events.

Book your training course

As already mentioned, training is part of the deal Picanol makes with its customers.

A full list of our training courses can be found on our website: www.picanol.be/training-services.

For more information, please contact your local Picanol agent or Customer Service Representative (CSR). See www.picanol.be/agents for contact details.



We make it easier

Our calculators, freshly designed. Developed to make the everyday lives of weavers easier.

Visit our website www.picanol.be and discover our new integrated weaving calculators online or download the app with the calculators.



Meet us around the world

During the year, Picanol is present at events and trade fairs around the world. Thanks to the "Trade Fair" function on our app, **you can prepare for your visit.**

With the Picanol app you can discover the machines and the features on show at the main trade fairs, in preparation for your visit. Download the app at www.picanol.app.



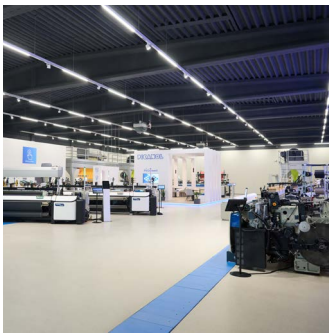
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About Picanol



For more than eighty years, Picanol has played a pioneering role in the global textile industry and it is currently the world's leading weaving machine manufacturer. Picanol develops, manufactures, and sells high-tech weaving machines based on airjet and rapier technology. Picanol offers upgrade kits, spare parts, training, troubleshooting services, and also digital services for its weaving machines through the PicConnect platform. Picanol has its headquarters in Ieper (Belgium) and it employs more than 1,200 people worldwide. Picanol is part of Picanol Group, a business unit of Tessenderlo Group (Euronext: TESB).

www.picanol.be



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