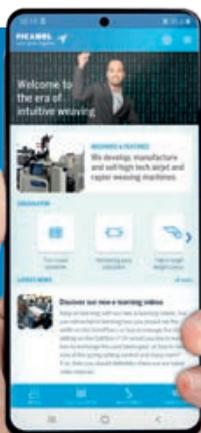




OmniPlus-i Connect



Make this
brochure
come alive.

Download the Picanol app.



SCAN HERE
FOR THE APP

ENGLISH

His **eagerness to grow** is our benchmark.



The future. Should we be afraid of it?

At Picanol we believe our children already show us what the future brings. Their expectations are **our new benchmarks**.

His **openness to novelty** is our benchmark



Their **care for the planet** is our benchmark



Her **lack of patience** is our benchmark



Her **ease with technology** is our benchmark



Their today is our tomorrow.

Because more than ever, in the future, we don't just want to grow. We want to **grow together**.



SCAN HERE FOR THE APP

Discover our vision in a video by scanning the image above with our new app.

www.picanol.app

PICANOL 
Let's grow together

Our design principles: how we build our machines.

When starting the design of a new machine, we have to do better than just a few picks faster than the previous generation. Today's world is all about connectivity, user-centric design, intuitive controls, self-learning capacities and sustainability ... to name just a few.

These are the benchmarks for a future-proof design.



Smart Performance

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



Sustainability Inside

When it comes to **preventing waste** and **reducing energy consumption**, Picanol has long faced up to its responsibility. Our machines are designed with a built-in capacity for sustainability.



Driven by Data

We all know that **digitization** will become ever more important in the next decades. **Data** have to be captured and made available for **artificial intelligence**, making production more efficient.



Intuitive Control

Kids nowadays handle new technology **effortlessly and intuitively**. That's what we want for our machines as well. Just like your smartphone or your car, the **machine display** is the interface that controls nearly all the machine functions.

Smart Performance, Sustainability Inside, Driven by Data and **Intuitive Control** are the basic principles of any Picanol weaving machine. They allow your company to thrive in today's world of Industry 4.0: connected, digital and sustainable.

That's why we at Picanol design our machines around the principle of 'Smart Performance': **intelligent machine design** combined with self-setting software, allowing the highest possible practical speed and best performance under all conditions.

We have demonstrated this with our pioneering Sumo drive. Introduced back in 1996, it is still the **most energy-efficient** main drive available. Sustainability is also about **waste management**. We not only reduce waste but also try to avoid it completely.

Ever since the first introduction of electronics on weaving machines in the 1970s, Picanol has been at the **forefront of digitization**. With every new machine, we continue to be a trendsetter in this field and to further deploy Industry 4.0 in the weaving industry: the **self-setting machine** is just around the corner!

Wireless-ready, robust and **designed for instant readability**: new generations will not accept anything less! This **user-centric approach** is also embedded in the design of the overall machine, making all operations easy, intuitive and self-explanatory.

OmniPlus-i Connect

The new benchmark in airjet weaving

Building further on nearly 40 years of experience in airjet weaving and over 100,000 airjet machines shipped, the new OmniPlus-i Connect combines this rich heritage with a clear vision of the future.

At Picanol, we believe that in this fast-changing world of weaving, the needs of weaving mills in general and the expectations of our customers and their operators are evolving rapidly. Our market is nowadays driven by an increasing concern for environmental topics, higher costs, and the lower availability of resources and skills, as well as the digital revolution.

That is why the OmniPlus-i Connect has been built around our **four leading design principles**.

Smart Performance

Picanol machines have always been built for maximum performance, and they always will be. **Smart performance** focuses on ensuring the highest industrial speeds in the market even under difficult conditions.

With the new OmniPlus-i Connect we achieve this thanks to a completely new reed motion: more insertion time permits the smooth handling of even less-than-perfect yarns.

Sustainability Inside

The further reduction of energy consumption is not an optional extra – it has to be embedded in the machine design. With its **modified relay nozzle distance**, the new OmniPlus-i Connect offers **more stable insertion** and consequently new possibilities for achieving a **further reduction in energy consumption**, even by automated algorithms. In other words, **sustainability is inside**.



Scan the pictures of the features in this brochure with the Picanol app and learn more about their possibilities.



Driven by Data

Picanol has pioneered the digitization of weaving machines for many decades now. **SmartShed** – the fully electronically controlled shedding motion incorporated in the new OmniPlus-i Connect – is a logical next step in this evolution. This together with an abundant **use of sensors** generates lots of data that fuel real-time optimization algorithms and promise even more gains in productivity when combined with other data. This even applies to data from other machines. Therefore, weaving with Picanol becomes truly **driven by data**.

Intuitive Control

Picanol machines are always designed to be as user-friendly as possible. Thanks to the **BlueTouch display** with its complete newly designed user interface, the **smart signal lights** and the implementation of Access control, the highest level of **intuitive control** has been incorporated in the machine design of the OmniPlus-i Connect.



Now enabled by PicConnect

PicConnect is our online platform offering digital services. It serves as a powerful extension of your weaving capabilities. Whatever your reflexes tell you to do, PicConnect amplifies it. We call it intuitive weaving – it's about allowing you to follow your weaving instincts. Learn more at www.picanol.be/intuitiveweaving

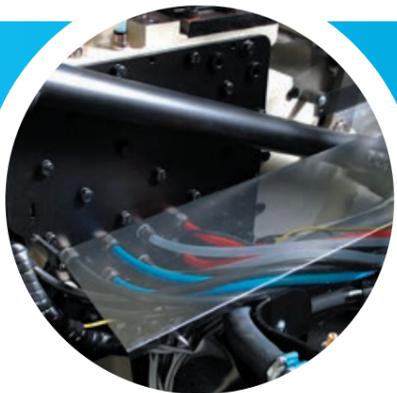
For every style, the desired filling length immediately

The unique, patented design of the **Blue22** and **Blue11 prewinders** allows quick and easy setting of the weft length. With the **EasySet function**, set-up is fully electronic, drastically reducing the time needed for style change.



Maximize industrial speeds

The **new-generation sley cams** are designed and produced by Picanol. The optimized reed motion is invaluable for coping with unclear sheds, affording more insertion time at even higher speeds.



Set each weft channel individually for optimum insertion

Large separate air tanks built into the machine sideframe, enable optimum setting by means of an electronic pressure regulator for each individual weaving channel.



Smart Performance



Solid structure, the basis for any application

The proven Picanol concept combines **two solid sideframes** connected by **large-section cross rails**. The sley is driven from both sides by conjugated cams.



A full range of high-performance shedding motions

The new Picanol independent and motorized shedding motion, **SmartShed**, is available. In addition the **full range of shedding motions** is also possible, including the independently driven jacquard.



The quickest way to get new styles up and running

With the Picanol **Quick Style Change (QSC)**, preparation of a new style is done outside the weave room. Furthermore, various design aspects facilitate quick setting with maximum digitization, greatly contributing to the uptime of the installation.

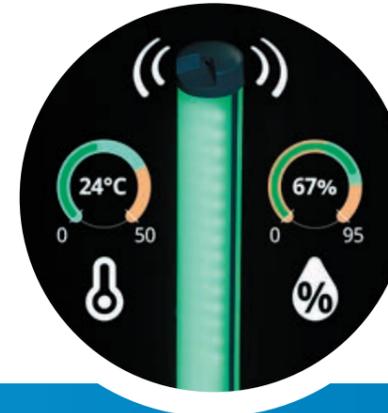
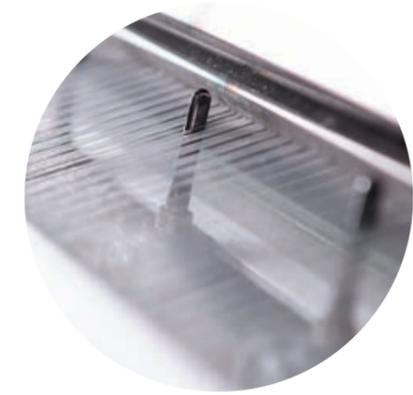


Manage the filling length to reduce waste

The unique, patented design of the **Blue22** and **Blue11 prewinders** makes adjustment of the waste as quick and simple as possible. And with the **EasySet function** it is even fully electronic.

The stability needed to optimize air consumption

With the optimized **relay nozzle spacing** the stability of the weft insertion is lifted to a higher level. This makes it possible to minimize air consumption without compromising on fabric quality and machine stop level.



No more doubts about the temperature and humidity

Every Picanol machine has an **integrated temperature** and **humidity sensor**. The data is available on the BlueTouch display.

Sustainability Inside



Take the next step to recycle weft waste

At the end of the insertion, the filling yarn is stretched and guided into a suction mouth. The remaining filling yarn waste ends are then removed and are ready for recycling. An additional advantage of the **CordLess** is the reduced workload for the weaver, by eliminating catch cords.



The most energy-efficient main drive has now become even more energy-efficient

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

Full sustainability inside

The perfect set of tools to **minimize the energy consumption**: Power monitoring, AirMaster, and ARVD II Plus.



The highest level of digitization

The 15.6" BlueTouch display is the perfect tool for both handling and visualizing your data. This is clearly illustrated with examples such as the **Sensor dashboard** and the action center with **Logbook** functionality.



The reliable electronic platform, ready for Industry 4.0

The **BlueBox electronic platform** got an update to enable **improved data handling**. In combination with the well-known reliability and the new design of the BlueBox, this sets the benchmark for electronic platforms in the market.



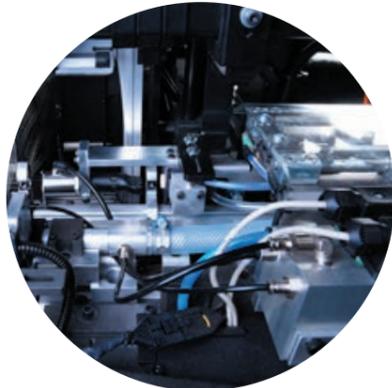
Prepare your weaving mill for the next industrial revolution

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 PicConnect applications.



Let the machine be smart

Various sensors continuously feed data into algorithms so as to optimize the performance of the machine. **ARVD II Plus**, for example, reduces air consumption automatically, while **PRA II Plus** is the fastest and most reliable automatic pick repair system on the market. The Picanol **AirMaster** allows measurement of air consumption as well as detection of leakage and blockage.



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Driven by Data

The smart digital shedding motion

SmartShed is built for weavers who want **maximum digitization and flexibility** in the weaving process. The movement and crossing timing for each harness frame are now electronic settings. In addition the harness frame stroke is measured electronically and shown on the machine display.



Perfect overview of sensor data

Essential sensor data is **easily accessible** and can be visualized on a dedicated dashboard on the **BlueTouch display**.





Full and quick data control at your finger tips

The advanced **15.6" BlueTouch display** allows **quick access** and **control of all settings**. With features such as **Access control**, help functionality, and others, the BlueTouch display sets new standards in the market.

Smart visibility of the machine status

The light combination of the **LED signal torch** and the LED strip on the **push buttons** is **synchronized**. In addition, it can be fully **customized** by the user.



Fully digital air pressure settings

Unique! The user can adjust all **pressure settings** and transfer them to other machines quickly and easily. Full **digitization** also makes other automated functions possible, such as **AirMaster** self-diagnosis.



On Picanol machines only! All shed information is available at the snap of your fingers

The **settings of the shed** can now be done in the most intuitive way thanks to the **visualization** of the shed on the BlueTouch display.



Full control of your machine settings

Access control manages the access level of the different users and allows you to define personal screens.



Enjoy operating the machine

In addition to the various **user-friendly features** that are standard on all Picanol machines, handling the machine is made even easier thanks to a range of **innovative design features**.



Intuitive Control

OmniPlus-i Connect

Technical specifications

* patented
** patent pending

Fabric specifications

Useful widths	190, 220, 230, 250, 260, 280, 340, 360, 400 cm		
Width reduction	70 - 96 cm depending on reed width		
Yarn range	Spun yarns	Nm 170 - Nm 4	Ne 100 - Ne 2.4
	Filament yarns	10 den - 1,000 den	11 dtex - 1,100 dtex

Connect Packages

	Standard	Optional	Aftermarket
Monitor package	-	●	●
PicConnect enabled	-	-	-
Access control	-	-	-
OptiStyle	-	-	-
Raw material use	-	-	-
Smart savings package	-	●	●
Power monitoring	-	-	-
AirMaster with integrated air consumption meter *	-	-	-
ARVD II Plus - Adaptive Relay Valve Drive *	-	-	-
Automation package	-	●	●
PRA II Plus - Pick Repair Automation *	-	●	●
PSO - Prewinder Switch-Off	-	●	●
AutoSpeed	-	●	●
Harness frame stroke measurement & Shed simulation (SmartShed, doobby- or cam-motion)	-	●	●

Filling insertion

Filling selection	Up to 8 colors	●	-	-	
	Double or multi-pick insertion (up to 8-pick)	-	●	●	
Prewinders	Adjacent windings	Blue22 *	●	-	●
		Blue22 EasySet *	-	●	●
	Separated windings	Blue11 EasySet *	-	●	●
	Integrated bobbin break sensor		●	-	-
	Yarn store sensor		●	-	-
	Winding sensor		●	-	-
	PSO - Prewinder Switch-Off		-	●/package ●/package	
Filling brakes	Balloon breakers	●	-	●	
	PFT - Programmable Filling Tensioner	-	●	●	
Filling cutter	Electronic filling cutter with separate cutting time per color	●	-	●	
Knot detector	PKE - Picanol Knot Extractor (knots at bobbin change)	-	●	●	
	Full PKE - Picanol Knot Extractor (all knots)	-	●	●	
Main nozzles	Fixed and movable main nozzles *	●	-	●	
	Clamp on movable main nozzles	-	●	●	
	Twinjet	●	-	●	
	PosiJet *	-	●	●	
	ELCA - Electronic Low Continuous Airflow *	●	-	-	
Relay nozzles	Single- or multi-hole relay nozzles	●	-	●	
Filling detector	Optical filling detector in front or next to the reed	●	-	●	
	Second filling detector in front or next to the reed	-	●	●	
	Argus filling detector	-	●	●	
Stretch device	Twin stretch nozzle *	-	●	●	
	Filling extractor with waste ribbon guidance	-	●	●	

Standard Optional Aftermarket

Automation and software tools	AIC - Adaptive Insertion Control	●	-	-
	AirMaster with integrated air consumption meter *	-	package	package
	PRA II Plus - Pick Repair Automation *	-	●/package	●/package
	AutoSpeed	-	●/package	●/package
	ARVD II Plus - Adaptive Relay Valve Drive *	-	package	package

Warp let-off

Let-off system	ELO - Electronically controlled Let-Off	●	-	●
Warp beam	Diameter 805 mm - 1,000 mm - 1,100 mm	●	-	●
	Double warp beam for reed widths of 250 cm and up	-	●	●
	Fancy beam system on top	-	●	●
Backrest	Double backrest rollers	●	-	●
	Double backrest rollers with possibility to add drag roller	-	●	●
	DWC - Direct Warp Control - pneumatic compensation *	-	●	●
	TSF - warp tension sensor in the feeler	●	-	●
	TSW - warp tension sensor in the warp	-	●	●
	Warp tension compensation		●	-
	with springs	-	●	●
	with easing motion	-	●	●
Electrical warp stop motion	6 contact bars 25 mm pitch or 8 contact bars 16 mm pitch	●	-	●
	Detection per contact bar	-	●	●
	Zone detection LHS / RHS	-	●	●
Style change system	QSC - Quick Style Change	-	●	●

Cloth take-up

Take-up system	ETU - Electronically controlled Take-Up	●	-	●	
Cloth take-up	Diameter of cloth roll	560 mm	-	●	●
		600 mm	●	-	●
		720 mm	-	●	●
	PBM - Picanol Batching Motion (up to diameter 1,500 mm)	-	●	-	
	Take-up directly over pressure roller (up to reed width 280 mm)	-	●	-	
Fabric illumination	LED illumination	above reed	-	●	●
		under the fabric	-	●	●
		above back shed (in case of fancy)	-	●	●

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	●	-	-	
Reed motion (beating-up motion)	Conjugated cams with cam followers	●	-	-	
Shedding motion	Positive cam motion (P)	max 8 or max 10 harness frames	-	●	●
		automatic shed levelling	-	●	●
		max 16 harness frames with levelling	-	●	●
	Positive doobby (R)	SmartShed (D) digital shedding motion * 8 - 12 or 16 harness frames	-	●	-
	Execution for electronic Jacquard (J)		-	●	●
	Execution for servo-driven jacqualette		-	●	●
	AKM - electronic setting of the crossing moment		●	-	-

		Standard	Optional	Aftermarket
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 *(design) LED signal torch **	●	-	●
Harness frames				
Driving element	Harness drive DRC30	●	-	-
Harness frames	For 11" or 13" heddles	●	-	●
	extra reinforced	-	●	●
	hybrid SmartFrame (for SmartShed)	●	-	●
Selvedge formation				
Selvedge systems	ELSY	-	●	●
	- independent electronically controlled selvedge system			
	e-Leno (rotary fabric tying)	●	-	●
	MTI - Mechanical Tucking-In	-	●	●
	ATI - Air Tucking-In *	-	●	●
	CordLess system cut reed *	-	●	●
Selvedge cutters	Electronic cutter	●	-	●
		RHS	-	●
		LHS / center	-	●
	Hotwire cutter	-	●	●
	LHS / center / RHS	-	●	●
Temples	Cylinder temples	●	-	●
	Full-width temple	-	●	●
Monitoring and software tools				
BlueTouch display	Loom monitoring and reporting	●	-	-
	Browser functionality	●	-	-
	Action center (including Logbook)	●	-	-
	Machine manual + Context based assistance	●	-	-
	Sensor dashboard	●	-	-
	Connection provided for major weaving room monitoring systems (parallel communication)	●	-	-
	Bi-directional communication on ethernet or serial connection	-	●	●
	Climate monitoring	●	-	-
Safety				
Light curtain	Depending on country of delivery	●	-	●

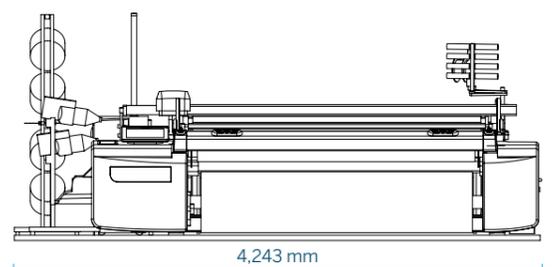
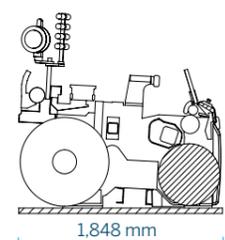


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Regulations

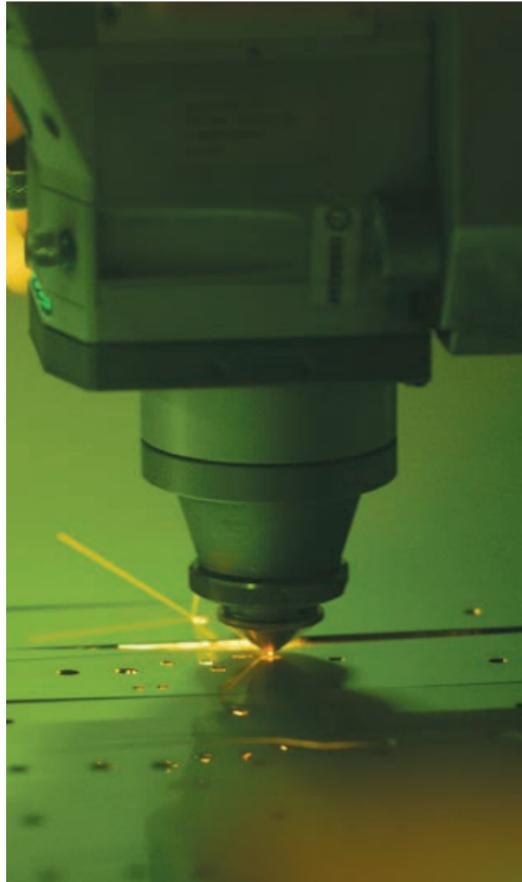
In designing the OmniPlus-*i Connect*, Picanol has taken into account current international regulations concerning safety (mechanical and electric) and the environment (ergonomics, noise, vibrations, and electromagnetic compatibility).

How to read the name

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Built in the factory of the future



Training is part of the deal Picanol makes with its customers

Well-trained employees are a real asset to your company. Skilled staff make your machines run at optimum performance, producing excellent fabric quality and resulting in superb plant efficiency.

We feel it is our duty to help your employees to improve their skills and knowledge. Hence, in 2015 we decided to invest in a state-of-the-art Technical Training Center in Ypres.

Three fully equipped rooms (each with weaving machines, cut models, mini workshop etc.) cover a total area of 270 m². This new knowledge center allows Picanol to train technicians from customers around the world in optimal conditions.

All facilities are there to give your employees a warm welcome. If your employees are not able to travel to one of our training centers, our instructors come to you and will organize training at your premises.

Spare Parts & WeaveUp

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. WeaveUp upgrades add state-of-the-art technology to your machines, which apart from the benefits in weaving equally increase the value of your investment.



Scan the pictures of the factory with the Picanol app and see the factory come alive.

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.

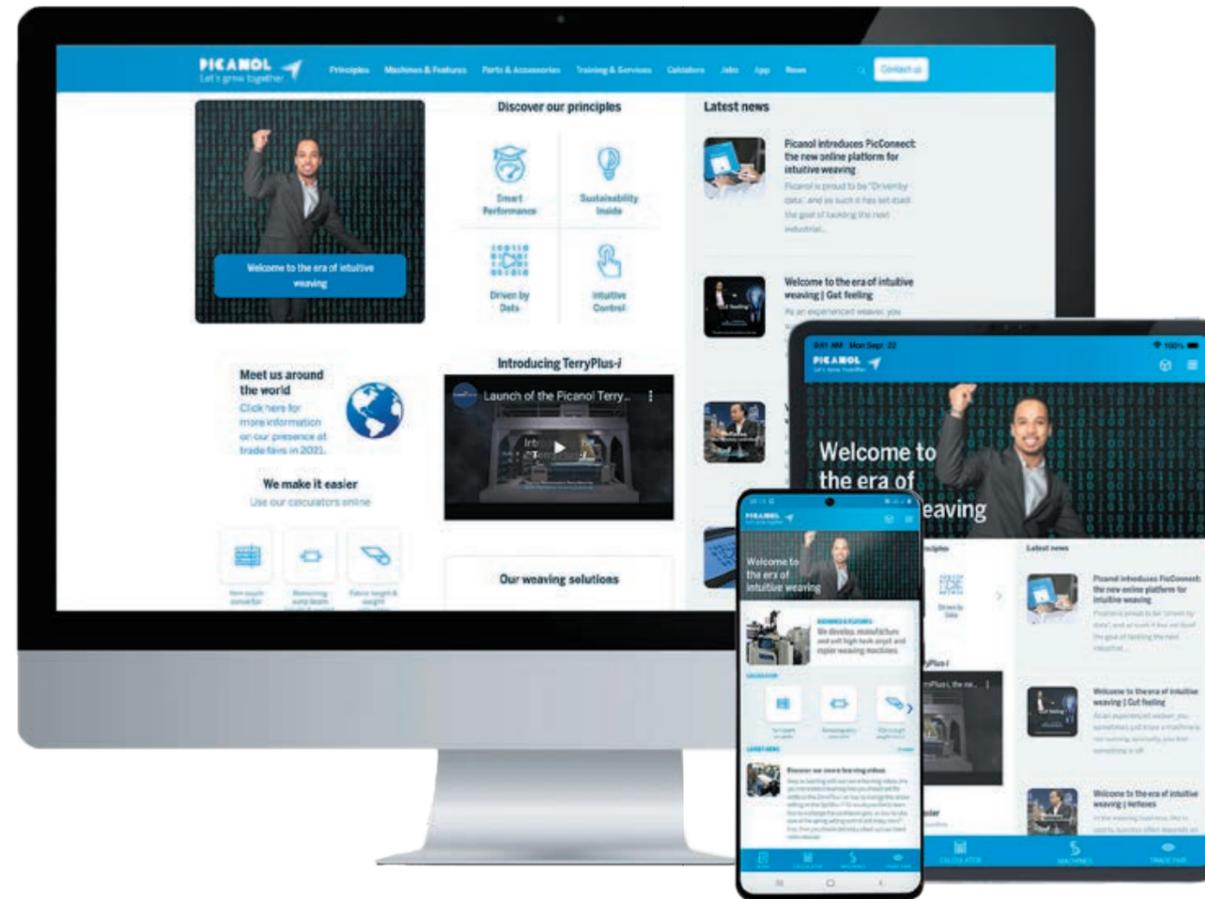
You can also subscribe to our **newsletter** at www.picanol.be/newsletter to be the first to learn about our latest news, updates and events.

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 weavers' everyday lives 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.



Download the app at: www.picanol.app or scan this QR code.

About Picanol



The Picanol Group is an international, customer-oriented group specialized in the development, production and sale of weaving machines, cast iron parts and controllers.

Its Weaving Machines division (Picanol) develops, manufactures and sells high-tech weaving machines based on airjet or rapier insertion technology. Picanol supplies weaving machines to weaving mills worldwide and also offers to its customers products and services such as weaving frames and reeds, training, upgrade kits and spare parts. For more than eighty years, Picanol has played a pioneering role in the global industry and is currently one of the world's leading weaving machine manufacturers.



The Industries division covers all the other activities not related to weaving machines. Proferro comprises all foundry activities and the group's machining activities. It produces cast iron parts for compressors and agricultural machinery, and parts for Picanol weaving machines. PsiControl designs, develops, manufactures and supports, among other things, controllers in various industries such as textile machinery, compressors and fleet management.

Melotte is a high-precision producer of metal components, molds and reconditioned molds. It has also played a leading role in the 3D printing of components for a number of years.

Next to the head office in Ypres (Belgium), the Picanol Group has production facilities in Asia and Europe, linked to its own worldwide service and sales network.

The Picanol Group employs more than 2,300 employees worldwide and has been listed on the Euronext Brussels exchange (PIC) since 1966. Since 2013, the Picanol Group has also had a reference interest in the Tessenderlo Group (Euronext: TESB).

Next to Ypres, Picanol has two first-in-class training centers located in Suzhou (China) and Greenville (USA). All our training centers are specialized in technical training on weaving machines for machine operators, fitters and weaving managers.

Our team is always at your disposal for further information or questions.

www.picanol.be



The illustrations and descriptions in this publication do not commit Picanol in any way: specifications may change as a result of developments in engineering and materials. EN 17.11.2021.



Steverlyncklaan 15, 8900 Ieper, Belgium
+32 57 222 111 - info@picanol.be

  @picanolweavingmachines

  @picanolgroup