

PICANOL
Let's grow together



TerryMax-i



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brochure
come alive.

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ENGLISH

His eagerness
to grow is our
benchmark.



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Discover our vision in a video
by scanning the image
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www.picanol.app

PICANOL 
Let's grow together

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.**



Their today is our tomorrow.

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



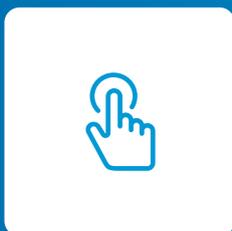
Sustainability Inside

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.

TerryMax-*i*

The benchmark in terry weaving.

If versatile and productive terry weaving is your objective, now you can be sure of real added value with the unique, future-oriented TerryMax-*i*.

Based on the same high-performance weaving technology as the OptiMax-*i*, the TerryMax-*i* offers all the possibilities for growing to the top in your market. Ready for every new opportunity.

Guaranteeing optimum fabric quality.

Best in class for minimum energy consumption.

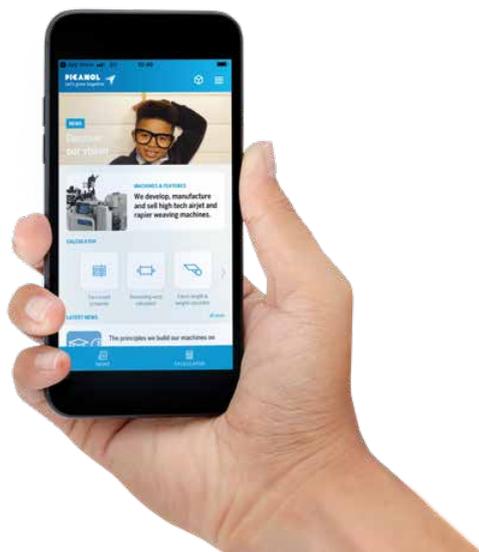
Optimizing your precious time. And creating space to unleash your utmost creativity.

Together with our customers we constantly strive to improve our machines and services, in order to stay ahead of the competition. The TerryMax-*i* provides the platform for you to keep growing. Because that is the essence of weaving.





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



Stable pile formation, even at the highest speeds

Thanks to the **unique pile motor set-up** directly driving the cloth and backrest movement simultaneously, **accurate pile formation** is assured at highest speeds.



Gentle treatment of all kinds of yarn

From **detection of the filling yarn** to the **unique quickstep** weft presenter and the various **weft cutter** systems, all are designed throughout to handle the **widest variety of weft yarns** in the smoothest possible way.



Future-proof thanks to modular design

The **highly modular machine concept** allows upgrades and modifications to be retrofitted as desired, with a wide range of variants in shedding motion, cutter design, warp beam set-up etc.



Optimal loop formation regardless of fabric design

The rigid yet extremely light construction ensures a highly dynamic behaviour, **guaranteeing perfect loop formation** for the most complicated terry designs, be it very light towels or heavy bathmats. This is by far the best pile compensation system ever!



Smart Performance



Solid structure combined with proven shed geometry, the basis for any application

The proven Picanol concept combines **two solid sideframes** connected by **large-section cross bars**. The sley is driven by conjugated cams located under the fabric line to guarantee **equal beat-up force** over the full width.



Maximum performance for each fabric

If you are looking for **highest speed combined with ultimate versatility** the **GCV gripper system** is the answer to your needs.

Smart energy use thanks to optimized lubrication

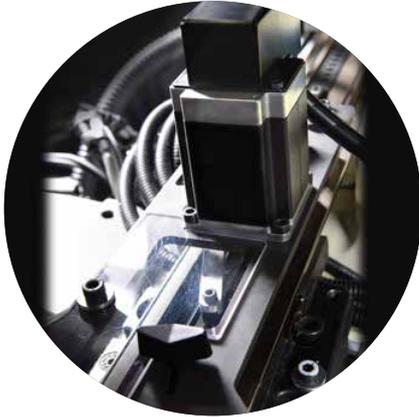
As well as **filtering and cooling the oil**, the integrated lubrication system brings the **optimum amount of oil** to all crucial points in the machine. This not only **extends the lifetime** of the components but also assures the **lowest possible energy consumption** in all gear transmissions.



Reduce load on clima up to 40%

The integrated **water cooling** system enables some 40% of the heat generated by the machine and the dobby to be evacuated outside the weaving department.





Minimize the length of the weft waste

Improved control of weft length is assured by positive opening of the right-hand side gripper with the **Electronic Right Gripper Opener (ERGO)**. ERGO allows individual setting through the display of the gripper opening timing per weft channel.



Sustainability Inside



Still the most energy-efficient main drive available

The SUMO concept pioneered by Picanol is **still the most energy-efficient main drive available**. Designed as an integrated system 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 highest level of digitization

The advanced **15" interactive color display** is a new platform ready for all needs and applications, now and in the future.



No design limitations

The **pile height-changing device** makes it possible not only to change the group beat-up rate but also **to weave structures** such as waves. All set on the display!



Master the filling tension

PosiFlex manages the **yarn tension** within the pick by controlling the position of the **flexbrake**, according to pre-defined braking profiles.



Reduce the impact of bobbin failures

With its **Prewinder Switch-Off (PSO)** system, the machine carries on weaving automatically even if a filling break occurs on the weft bobbin creel or one of the prewinders.





The reliable electronic platform, ready for Industry 4.0

Right from the start the **BlueBox** electronic platform was designed to meet the needs of next-generation weavers. This goes further than **flexibility** and **reliability**. **Data gathering** and **data access** afford new opportunities to make your production even more efficient.

Connect, centralize and manage machine data

A full set of software packages to handle the machine data in the best possible way, including stand-alone mode. The **LoomGate network connection** also allows data from these packages to be sent smoothly to and from the machine.



Driven by Data

Data-based remote service

All service-related data in the machine can be made available simply and easily. This **Customer Service File** (CSF) enables Picanol to carry out remote diagnosis and take efficient action.

Full and quick data control at your finger tips

The advanced 15" color display allows **quick access** and **control of all settings**. The **intuitive interface**, on the machine with the **highest level of digitization**, sets a new benchmark in the market.



Full and independent control of the selvages

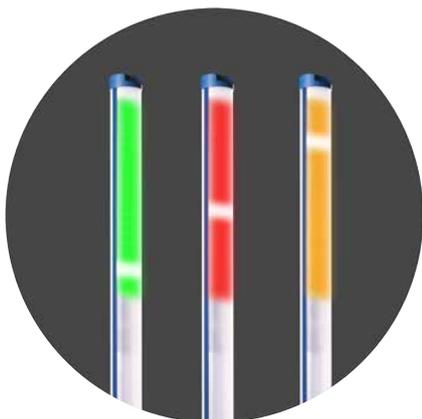
With the independently **electronically controlled selvage system (ELSY)** the weaver has full control.



The ease of width changes in a minimum of time

All components involved in a width change are mounted on a **single support**. A **display procedure** guides you through the adjustment of the gripper stroke.





Smart visibility of the machine status

The **LED signal torch** can be fully **customized** by the user. The signal lights also show the duration of the status, so the weaver has full understanding of the situation at a glance.

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**.



On Picanol only! The setting of shed angles made easy

Clear **markings** on each dobbie lever make it very easy for the user to set the required shed angle. This feature is unique to Picanol and indeed appears on all Picanol machines.



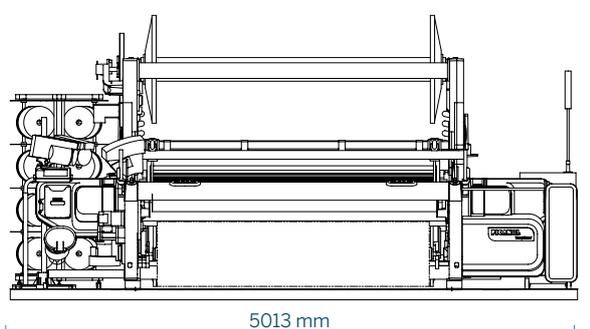
Intuitive Control

TerryMax-i

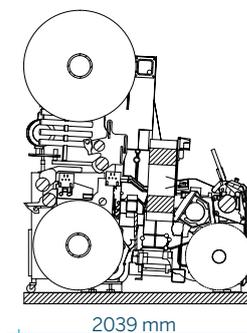
Technical specifications

Available for the
aftermarket 

Fabric specifications			
Useful widths	230, 240, 260, 280, 300, 340 and 360 cm		
Width reduction	Up to 100 cm		
Yarn range	Spun yarns	Nm 200 - Nm 3 (Ne 118 - Ne 1.8)	
	Filament yarns	20 den - 3,000 den (22 dtex - 3,300 dtex)	
Pile formation			
Direct driven cloth formation for up to 12 mm pile height			Standard
Pile height monitoring			Optional 
Filling insertion			
Filling selection	1 - 8 colors or yarn types (filling presenter with insertion position)		Standard
Prewinder	Prewinder Switch-Off (PSO)	Optional 	
	Pneumatic feeder threading up	Optional	
Active filling brakes	Programmable Filling Tensioner (TEC) (patented)	Optional 	
	Electronic Filling Tensioner (EFT) (patented)	Optional 	
Filling detection	Piezo-electric filling detector with anti-2 protection	Standard	
	SmartEye filling detector	Optional 	
Filling cutter	Electronic Disc Cutter (EDC)	Standard 	
	Mechanical filling cutter	Optional 	
	SmartCut filling cutter	Optional	
Electronic Right-hand Gripper Opener (ERGO) (patented)			Optional 
Warp let-off			
Warp beam diameter	Ground	805 or 1000 mm	Standard
	Pile	805, 1000, 1100 or 1250 mm	Standard
Warp stop motion	Electrical, with toothed electrodes	Standard	
	Sectional warp stop motions	Optional	
Backrest	Universal type with built-in warp tension sensor (TSF)		Standard

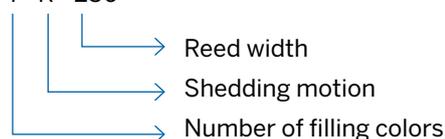


TerryMax-i - 4 - R - 230



How to read the name

TerryMax-i - 4 - R - 230

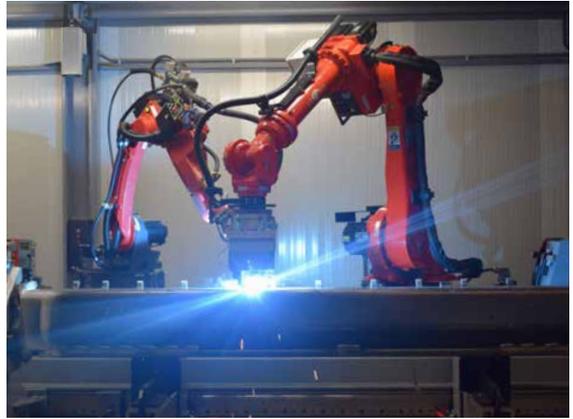


Regulations

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

Cloth take-up		
Cloth take-up	Diameter of cloth roll: 600 mm	Standard
	Picanol Batching Motion (PBM) system for diameters up to 1,500 mm	Optional
Central cutter devices		Optional 
Needle roll control		Optional 
Fabric illumination	LED illumination above reed	Optional 
	LED illumination above back shed	Optional 
Machine drive and control		
Main motor	SUMO main motor with direct machine drive (patented)	Standard
	OptiSpeed	Standard 
Automatic full pickfinding (patented)		Standard
Reed motion	Positive conjugated cam units (2 or 3, depending on machine width)	Standard
Shedding motion	Positive dobby for 20 harness frames, 12 mm pitch with levelling	Standard
	Execution for electronic jacquard	Standard
	Electronic setting of the crossing moment (AKM)	Standard
Electronically controlled let-off (ELO) and take-up (ETU) system		Standard
Centralized lubrication, forced circulation of filtered oil to all major drive functions		Standard
Water cooling system		Optional
Interactive display	15" touchscreen	Standard
Harness frames		
Harness drive DRC30		Standard
Standard harness frames		Standard 
Selvedge formation		
Independently electronically controlled selvedge system (ELSY)		Optional 
Monitoring and software tools		
Loom monitoring and reporting on machine display		Standard
Connection provided for major weaving room monitoring systems (parallel communication)		Standard
Bi-directional communication on ethernet or serial connection		Optional
Picanol PC Suite (Picanol Pattern Editor (PPE), Picanol Style Administration (PSA), Loomgate, Password Administration, Densigraph)		Optional 
Safety		
Light curtain (depending on country of delivery)		Standard

Built in the factory of **the future**



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.



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.

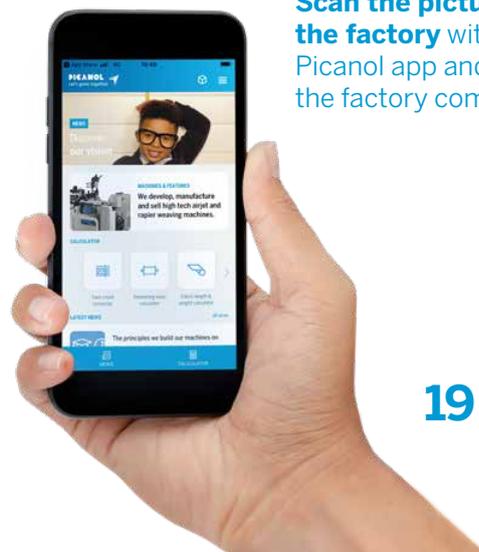
Three fully equipped rooms (each with weaving machines, cut models, mini workshop etc.) cover a total area of 270 m². This new knowledge center allows Picanol to train technicians from customers around the world in optimal conditions.

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.

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.

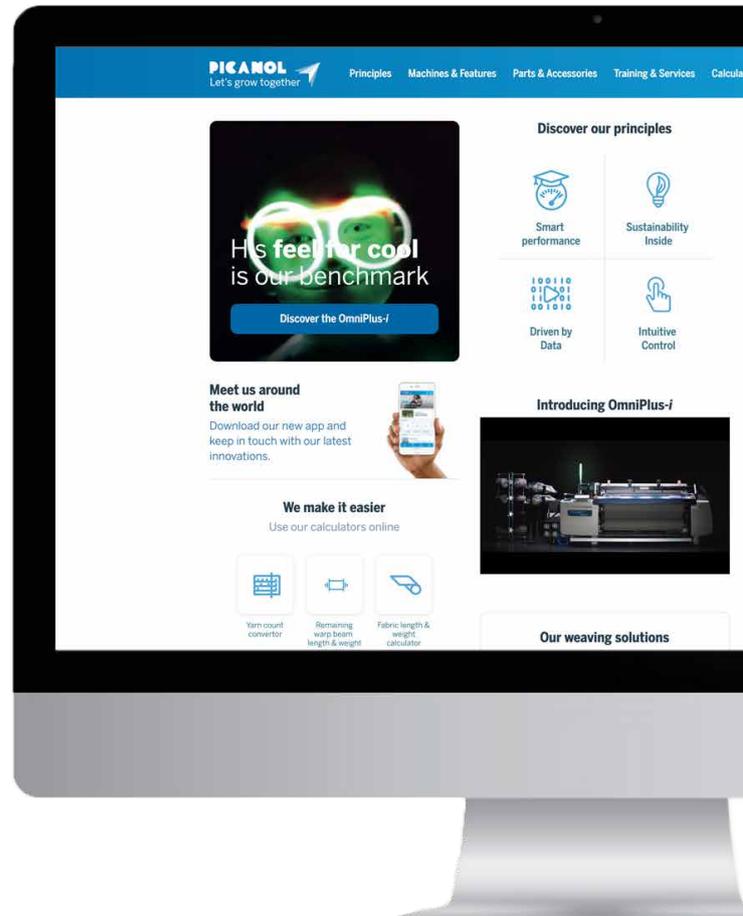
You can also subscribe to our **newsletter** at www.picanol.be/newsletter to be the first to learn about our latest news, updates and events.

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.



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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 01.04.2020.



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