

MIMAKI PRO SERIES TEXTILE PRINTERS

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SERIES TEXTILE
PRINTERS

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Mimaki

ENGINEERING EXCELLENCE AND CREATIVE INNOVATION

Founded in Japan in 1975, Mimaki Engineering has steadily grown by reputation and influence into a global printer manufacturing company with large operational bases in Japan, Asia, Oceania, Americas, Middle East, Africa and Europe.

Renowned for award-winning performance, peerless build quality and innovative technology, Mimaki has established itself as a leading manufacturer of wide-format inkjet printers and cutting machines for the sign and graphics, textile and apparel and industrial markets. In addition, Mimaki also provides a comprehensive range of supporting products; hardware, software and associated consumable items, such as inks right through to cutting blades for its plotter range.

From outdoor signage and billboards to décor and furnishing, from packaging and labels to promotional gifts and apparel, Mimaki is committed to developing technology that sets new industry standards, producing machines and products that turn the imagination of our customers into breath-taking reality.

A HERITAGE OF PIONEERING TEXTILE PRINT

Alongside its range of sign and graphics and industrial products machines, Mimaki sports an enviable line-up of textile printing solutions and enjoys an unparalleled heritage in the sector. Starting with its first textile pigment piezo printer in 1999, Mimaki has consistently remained at the forefront of the developing digital textile print industry.

The company currently offers the widest range of digital inkjet printers to the entry and mid-market segments; and the Mimaki Textile Pro Series range adds volume industrial textile production to the offering.

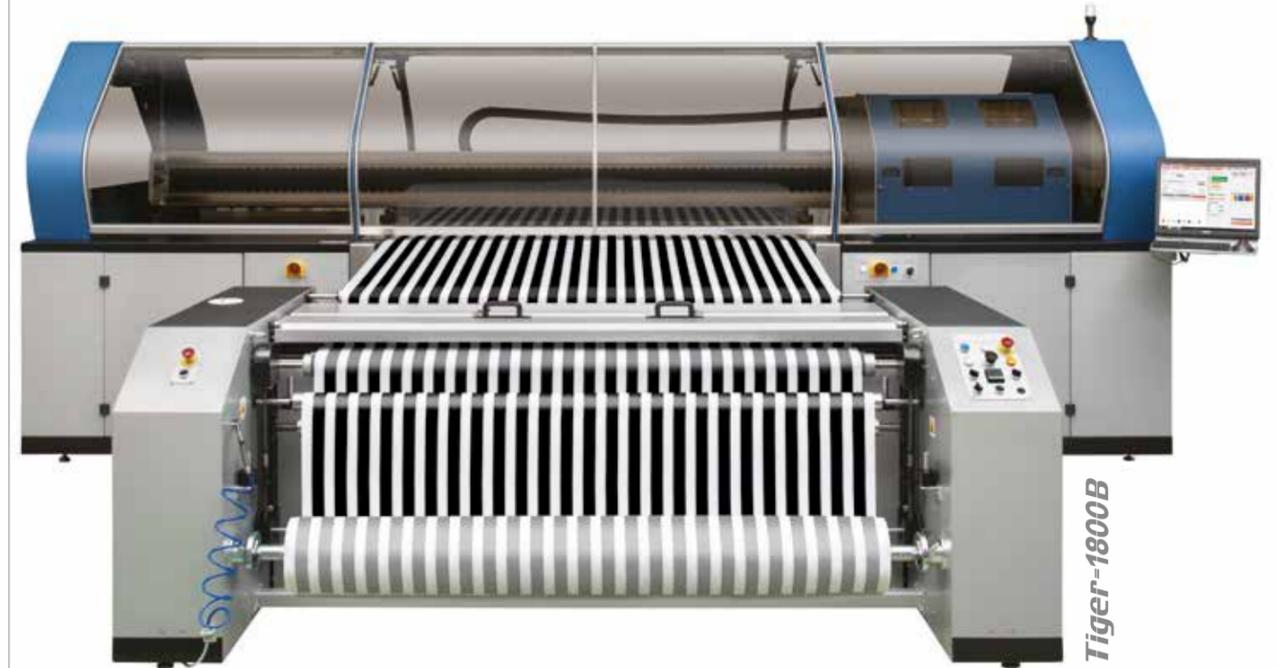
With a clear focus for many years on developing digital print solutions for the textile market with its ever-expanding range of potential applications, Mimaki remains committed to delivering ever more sophisticated and faster innovations over the next few years.

MIMAKI PRO SERIES TEXTILE PRINTERS

Representing the pinnacle of Mimaki's comprehensive textile printer portfolio, Mimaki's new Tiger Pro Series textile printers combine highly stable performance with advanced print technology to deliver market-leading print speed and stunning print quality, making these machines the perfect solution for companies looking for cost-effective, high quality, industrial level textile print capability.

Specifically engineered for the production of soft furnishing fabrics, sportswear and fashion and apparel; the range includes a number of customisable options which offer even greater flexibility and productivity.

MIMAKI PRO SERIES TEXTILE PRINTER



Industrial, high production textile printers designed for volume printing
Class-leading print speeds up to 385m²/h
Single pass print mode for greater productivity
Customisable feed and take-up options for various applications
Choice of inks to meet specific fabric requirements



PUT YOUR COMPANY AT THE SHARP END OF HIGH FASHION



Unique, textile-specific features and unparalleled build quality result in a technically advanced printer that improves ease of use, reduces maintenance and delivers unparalleled print quality. The Mimaki Pro Series' revolutionary ink-wiping system is just one example of how decades of textile printing experience help develop a machine that takes the challenge of printing multiple fabrics at high speed in its stride.

SIT COMFORTABLY - YOUR TEXTILE PRINTING BUSINESS IS IN SAFE HANDS

Mimaki's vast global network consists of long-established partners, each with unparalleled textile printing heritage and they're here to support your business from start to finish. With a history of digital textile printing that stretches back to the last century, Mimaki knows the industry like no other and our training, technical input, R&D and support exist to ensure your company gets the advice, assistance and backup it needs, when needed.



CUSTOMISE YOUR MIMAKI PRO SERIES TEXTILE PRINTER FROM OUR ALL-STAR OPTIONS

Because every business is different, we provide the options to perfectly tune a Mimaki Pro Series Textile Printer to your specific requirements. With an enviable standard configuration, the Tiger is ready to roar from the start. Build in feeding, winding and post processing options and it's possible to customise a system to suit your printing needs.



Digital print technology has the potential to help reduce environmental impacts, and yet only 3% of today's textile production worldwide is achieved through digital printing. The speed, flexibility and inherent technology of the Mimaki Pro Series provides a real-world solution that offers volume production with a drastically reduced ecological footprint.



HIGH STABILITY AND RELIABILITY

The Mimaki Pro Series textile printers feature multiple innovative technologies that ensure the printer operates in a stable and reliable fashion, reducing downtime and wastage. With its standard configuration, the fabric path is optimised to safeguard against feeding, printing and winding issues, utilising a **sticky belt** in combination with a **wrinkle sensor** that avoids head strikes and a **belt washing unit** to avoid mark off.

A **degassing module** removes air bubbles from the ink in order to prevent nozzle failure. This stabilises printing whilst reducing cleaning and ink usage. Additionally, the Pro Series' **ink recirculation system** prevents sedimentation and further optimises nozzle performance.

Individual wipers are installed for each print head to avoid colour mixing and increase cleaning speed. These wipers are automatically sprayed prior to and after cleaning which reduces daily maintenance and helps to prevent nozzle failure.

MULTIPLE INK OPTIONS

The Mimaki Pro Series can be configured to print with a range of textile inks, dependent on the fabric used.

Ink Type	Fibre types						
	Cellulosic		Protein		Synthetic		
	Cotton	Linen	Silk	Wool	Polyester	Nylon	Rayon
Reactive	•	•	•				
Sublimation					•		

FEATURES

POWERFUL INBUILT SOFTWARE

Pre-installed on the Pro Series' built-in PC, Mimaki's **Q Print** software is used to adjust settings, operate the printer and set the order of print jobs.

Q Print Software

The software's primary screen controls print ordering and printer settings, providing quick access to the most important functions of the Mimaki Pro Series.

The operation panel provides the capability to check upcoming jobs and printer settings, as well as reporting on completed print jobs and accessing cleaning functions.

Remote Access

Q Print software can be remotely accessed using the TeamViewer application via a network connection, to enable remote support and error recovery.



HIGH PRODUCTION SPEEDS (DIRECT AND SUBLIMATION)

Bi DIRECTION PRINT



Uni DIRECTION PRINT



- Reference printing speeds are square metres per hour printed on fabric of 1.85m width.
- The print modes in this document are the performance of the printer itself.
- The profiles are created selectively depending on the fabric type.

REACTIVE INKS

Reactive dye-based inks are ideal for printing cotton, linen, silk and plant derived fibres such as hemp and jute. They have good light fastness as well as typically bright colours and exhibit good wash fastness, due to the chemical bond created between the dye and the pretreated fabric. After printing, these inks need to be post-treated by steaming and washing.



DYE SUBLIMATION INKS

Print designs onto polyester via the paper transfer method and achieve vibrant and long-lasting imagery for fashion, sportswear and decorative applications.

Dye sublimation printing requires no fabric pre-treatment and is the ideal technology to take advantage of significant advances in polyester fabrics.



Item		Tiger-1800B	
		Direct-to-textile	Sublimation
Print head		16 Staggered arrangement (each line has 8 printheads)	8 Staggered arrangement (each line has 4 printheads)
Print resolutions		600dpi, 1200dpi	
Maximum print width		1,850mm	
Maximum media width		1,900mm	
Ink	Type / Colour	Reactive dye ink: MLRc500 (C, M, Y, K, Bl, R, Or, Lk)	Sublimation: MLSb510 (B, M, Y, K)
	Package size	10kg ink tank	
	Loadable ink colour	8 colour (reactive)	4 colour (sublimation)
Core diameter		2" (direct)	3" (sublimation)
Roll media diameter		Max. Φ 400mm (default)	Max. Φ 1000mm (feeder) / Max. Φ 500mm (winder)
Roll media weight		Max. 100kg (standard feeding and take-up unit)	Max. 1000kg (feeder) / Max. 500kg (winder)
Certifications		CE Marking (EMC, Machinery directive), RoHS	
Interface		USB 2.0 / Ethernet	
Power supply		Printer: 3 phase 380V \pm 10%, 50 / 60Hz 50A or less Heater: 3 phase 380V \pm 10%, 50 / 60Hz 30A or less	Printer + Feeder: 3 phase 380V \pm 10%, 50 / 60Hz \pm 1% Dryer/Winder: 3 phase 380V \pm 10%, 50 / 60Hz \pm 1%
Operational environment		Temperature: 20-25°C Humidity: 35-65% Rh (Non-condensing)	
Power consumption		Printer: 22kW Heater and take-up unit: 14kW	Printer + Feeder: 40 kVA (63A) Dryer/Winder: 40 kVA (63A)
Dimensions (W x D x H)		Printer: 5,750 x 2,700 x 2,000mm Heater and take-up unit: 2,825 x 1,300 x 980mm	Outer dimensions: 5,250 x 7,015 x 2,024mm
Weight		Printer: 4,800kg Heater and take-up unit: 1,200kg	Printer: 4,800kg Feeder: 720kg Dryer/Winder: 1,500kg

SUPPLIES

Name	Product No.	Remarks
MLRc500 Reactive dye ink tank	Cyan	MLR50-C-BJ
	Magenta	MLR50-M-BJ
	Yellow	MLR50-Y-BJ
	Black	MLR50-K-BJ
	Blue	MLR50-BL-BJ
	Light Black	MLR50-LK-BJ
	Orange	MLR50-OR-BJ
	Red	MLR50-R-BJ
MLSb510 Sublimation transfer ink tank	Blue	MLS51-BLT-BJ
	Magenta	MLS51-MT-BJ
	Yellow	MLS51-YT-BJ
Black	MLS51-KT-BJ	
ML flushing liquid (for sublimation ink)	FL003-Z-BJ	

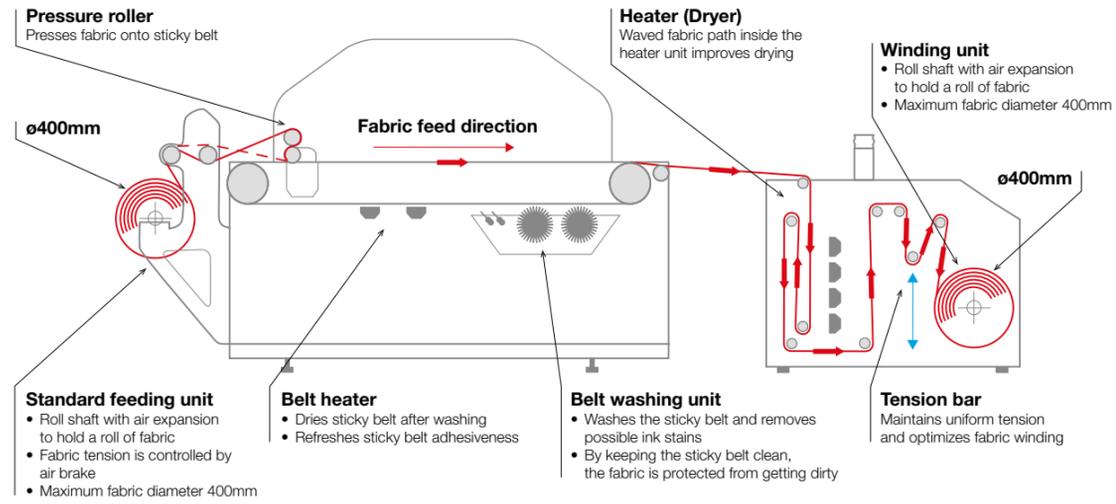
10kg ink tank



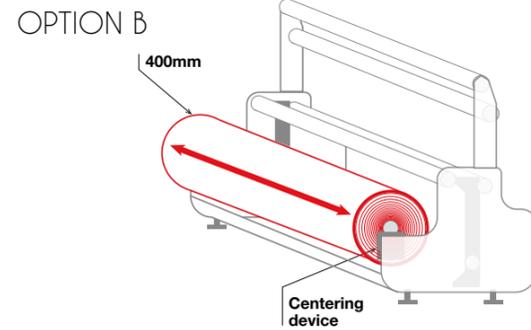
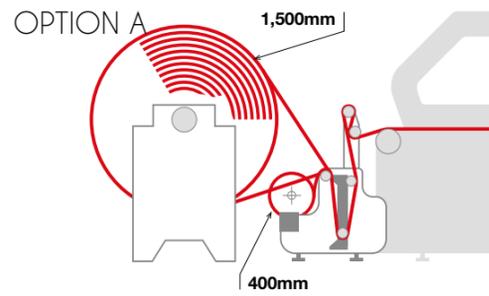
STANDARD CONFIGURATION FOR DIRECT PRINTING

Tiger 1800B

- Standard Feeder Unit (max. 400mm rolls with a 2" core)
- Standard Dryer Unit (Electrical) / Take-up Unit (max. 400mm rolls with a 2" core)

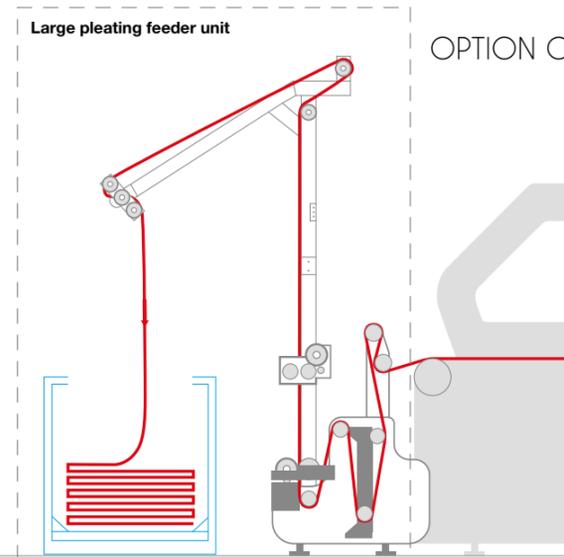


AVAILABLE OPTIONS



FEEDING OPTIONS

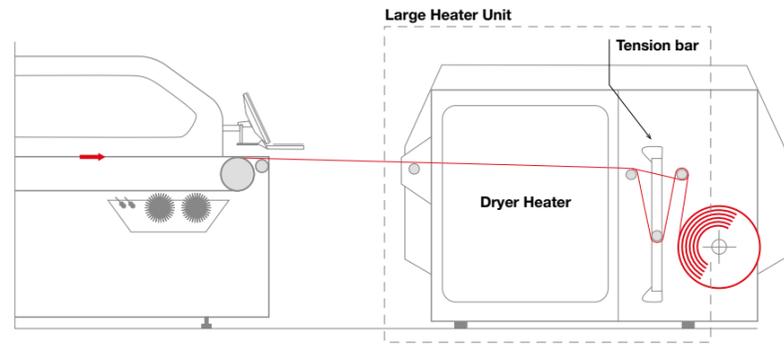
Customise your Mimaki Pro Series Textile Printer
Mimaki provides a wide variety of feeding and winding options that allow businesses to customise the Pro Series Textile Printers to perfectly suit their requirements.



WINDING OPTIONS

Large Heater Unit

- Equipped with electric heater
- Maximum roll diameter is 400mm
- Pleating unit can be easily attached

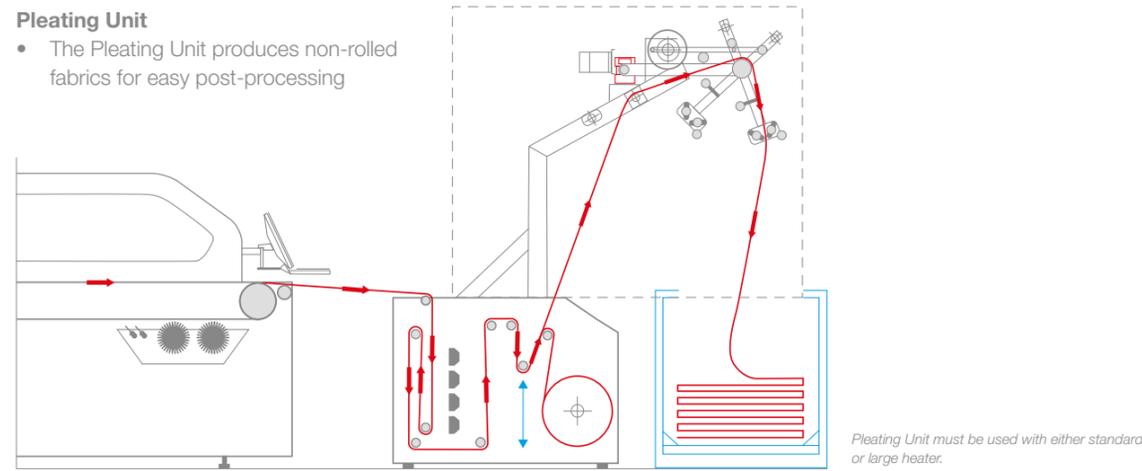


Large Heater Unit is recommended when printing on fabrics which are slow drying, such as wool or when printing with high ink density.

Large Heater Unit works together with Pleating Unit.

Pleating Unit

- The Pleating Unit produces non-rolled fabrics for easy post-processing

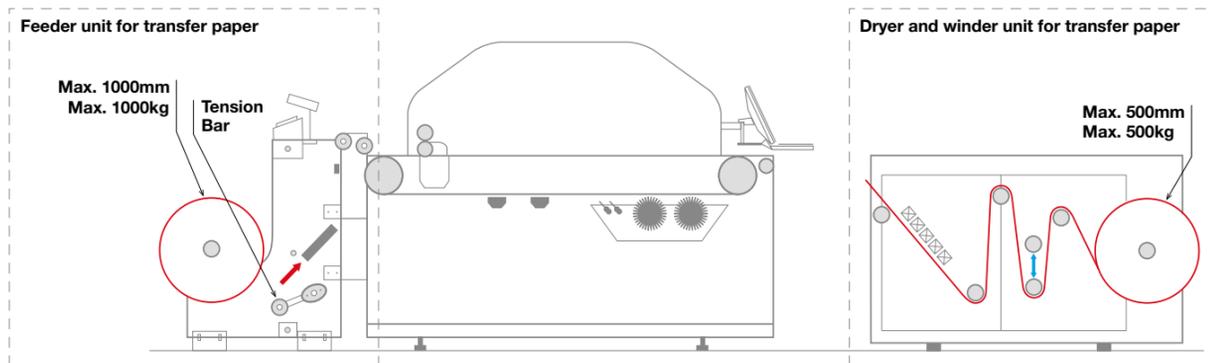


CONFIGURATION FOR SUBLIMATION PRINTING

Tiger 1800B

- Standard Feeder Unit (max. 1,000mm rolls with a 3" core)
- Dryer Unit (Electrical) / Jumbo Take-up Unit (max. 500mm rolls with a 3" core)

Option: 2" core shafts



Unit	Item	Specifications
Feeder	Unit	Jumbo Roll Unit
	Paper Core	3-inch air chuck shaft
	Roll Diameter	1000mm or less
	Roll Weight	1000kg or less
	Drive Method	Tension bar (Motor driven)

Unit	Item	Specifications
Dryer Winder	Unit	Dryer Winder for transfer paper
	Paper Core	3-inch air chuck shaft
	Roll Diameter	500mm or less
	Roll Weight	500kg or less
	Drive Method	Tension bar (Motor driven)
	Heater output	12.6KW

