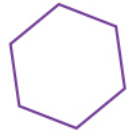# Kornit
Avalanche 1000

Pushing mass-production boundaries to their absolute limit

The industrially engineered Kornit Avalanche 1000 is the newest member of Kornit Digital's mass-production family of digital printers. Break the speed barrier with our fastest printer and stretch the limits of single operator mass-volume production. Featuring dual-pallets, 1.5 liter bulk ink system, automatic maintenance and pretreatment systems, the Kornit Avalanche 1000 is built for 24/7 operation. It is specifically tailored to ensure supreme print quality, outstanding accuracy, and exceptional consistency.

Our revolutionary NeoPigment™ process brings the benefits of textile pigment printing to the digital world. Print on multiple light and dark fabric types, enjoy the integrated automated pretreatment process and produce consistently excellent quality prints at the lowest printing costs.

Quick facts

- Fastest print speed on both light and dark garments
- Print up to 300 light A4 garments per hour
- Dual-bridge system enabling true parallel printing
- Integrated humidity control and backup battery system for increased reliability
- 24 Spectra Polaris™ print heads with 256 nozzles each
- 23.5 x 35 in / 60 x 90 cm print area for XXL garments and cut pieces

Key features and benefits

- Innovative NeoPigment™ process including an integrated automated pretreatment process

- Quality printing on most fabric types in one machine with our **NeoPigment™Ink**

- Low ink price, ensuring lowest Total Cost of Ownership (TCO) and the fastest Return on Investment (ROI)

- 6 height-adjustable industrial Spectra print heads for printing over zippers, buttons and raised objects

- Dual-bridge system enabling true parallel printing

- Degassing system for smooth ink flow and automatic battery backup system ensuring reliability and consistency

- Web-to-print ready for quick launch of ecommerce internet-based services

- Printing area of up to 23.5 x 35 in / 60 x 90 cm for XXL garments and cut pieces

- Wide selection of pallets customized for different size garments

- Biodegradable ink and energy saving process for the most eco-friendly printing solution

- Oeko-Tex 100 safety applications for infant wear, Global Organic Textile (GOTS) and American Association of Textile Chemists and Colorists (AATCC) certified to meet the strictest industry standards

Optimized for your digital mass-production printing needs

The Avalanche 1000 easily surpasses the high-quality, high-speed and low cost printing demands of the garment and textile printing market. The robust dual-pallet digital printer with dual-bridge system and integrated humidity control system has a non-stop production workflow enabling parallel file loading and printing. Dramatically boost your print speed and significantly improve your print quality while reducing your maintenance ink consumption. Even if you are already manufacturing at mass-volume, take your production to the next level with the Kornit Avalanche 1000.
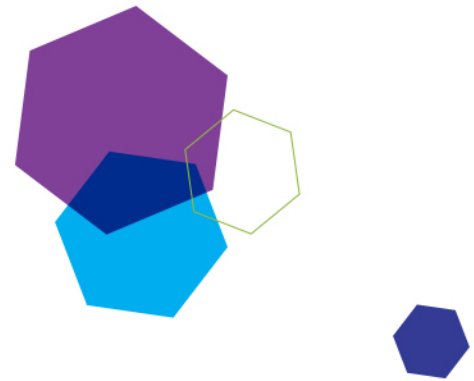
Kornit Avalanche 1000 Technical Specifications

Printing Method	Direct to Garment
Print Heads	Spectra Polaris™, 24 heads, 5 colors, 256 nozzles per head
Printing Area	Up to 23.5 X 35 in / 60 X 90 cm
Printed Substrates	Cotton, Polyester, Cotton-Polyester Blends, Lycra, Viscose, Silk, Leather, Denim, Linen, Wool and more
Throughput (A4 shirts/hour)	Light garments: Up to 300, Dark garments: Up to 170
Dimensions	138 X 91 X 67 in / 350 X 230 X 170 cm
Weight	Approx. 2200kg
Power Requirements	400/208 VAC, 50/60 Hz, 3 phase, 3W+N+PE
Operating System	Supports Windows XP and Windows 7
Operating Conditions	Temperature: 18° C – 30°C / 64.4° – 86° F. Humidity: 45%-95%
Printing Resolution	Up to 600 dpi

Kornit
Storm II

The Direct to Garment printer for high-volume production

The Kornit Storm II is the ideal digital printing solution to answer the needs of high-volume production printers. With its dual-pallets, 1.5 liter bulk ink system, fully automated processes and advanced user-friendly front-end, it is specifically engineered for 24/7 non-stop industrial use.

The capacity to produce digitally printed pieces featuring the widest color gamut allows users to enjoy unparalleled print quality, fast turnarounds and high profitability. Efficiently and cost-effectively attain your optimal printing results for custom high-level Direct to Garment production with the Kornit Storm II.

Our revolutionary NeoPigment™ process brings the benefits of textile pigment printing to the digital world. Print on multiple light and dark fabric types, enjoy the integrated automated pretreatment process and produce consistently excellent quality prints at the lowest printing costs.

Quick facts

- 1.5 liter bulk ink system for uninterrupted operation capability

- Dual-pallet set up for non-stop productivity

- Large print areas of up to 20 x 28 in / 50 x 70 cm for XXL garments and cut pieces
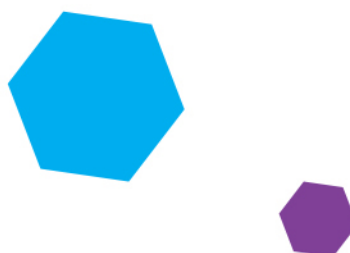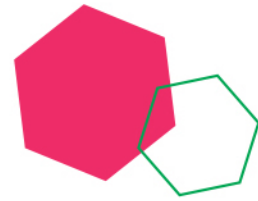
Created to accelerate your production speed and volume

The Kornit Storm II provides a non-stop production workflow that enables garment loading while printing. The advanced machine controller enables multi-function operational efficiency that increases your production speed. You enjoy full operational and production control with only one person working the machine. Designed to handle a wide range of garments and textile applications, the Kornit Storm II expands custom run capabilities to deliver XXL and cut pieces too.

Kornit Storm II Technical Specifications

Printing Method	Direct to Garment
Print Heads	Spectra Piezo Electric, 8 heads, 5 colors, 256 nozzles per head
Printing Area	Up to 20 x 28 in / 50 x 70 cm
Printed Substrates	Cotton, Polyester, Cotton-Polyester Blends, Lycra, Viscose, Silk, Leather, Denim, Linen, Wool and more
Throughput (A4 shirts/hour)	Light garments: Up to 150, Dark garments: Up to 80
Dimensions	114 x 80 x 65 in / 290 x 202 x 165 cm
Weight	Approx. 1300 kg / 2860 lb
Power Requirements	400/208 VAC, 50/60 Hz, 3 phase, 3W+N+PE
Operating System	Windows XP and Windows 7
Operating Conditions	Temperature: 18° C – 30°C / 64.4° – 86° F. Humidity: 45%-95%
Printing Resolution	Up to 630 dpi

Kornit
Avalanche

The answer to your digital mass-production requirements

Designed to meet the high-quality, high-speed and low-cost printing demands of the garment printing market, the Kornit Avalanche offers mass production printers true parallel printing capabilities. Featuring dual-pallets, 1.5 liter bulk ink system, automatic maintenance and pretreatment systems, the Kornit Avalanche is built for 24/7 operation. Combining Kornit's advanced technology and unprecedented color gamut, users can produce outstanding quality prints in vivid colors at fast speeds.

Our revolutionary NeoPigment™ process brings the benefits of textile pigment printing to the digital world. Print on multiple light and dark fabric types, enjoy the integrated automated pretreatment process and produce consistently excellent quality prints at the lowest printing costs.

Quick facts

- Exceptionally fast print speed on both light and dark garments
- Print up to 200 light A4 garments per hour
- 24/7 non-stop production workflow
- Dual-bridge system enabling true parallel printing
- 23.5 x 35 in / 60 x 90 cm print area for XXL garments and cut pieces

Kornit Avalanche DC PRO

Where mass volume and extraordinary quality meet the Fashion Market

The Kornit Avalanche DC Pro is the version of the Kornit Avalanche that answers the call of the fashion market. With its additional print heads and discharge system, the Kornit Avalanche DC Pro produces an unprecedented hand feel, allowing digital garment and textile printers to enter the fashion industry. Take advantage of having full control over discharge combinations with white ink. With the Avalanche DC Pro, you enjoy all the benefits of the Kornit Avalanche as well as a softer hand feel and more vivid color combinations.

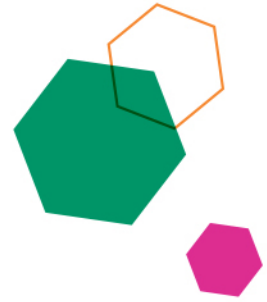### Kornit Avalanche and Avalanche DC Pro Technical Specifications

Printing Method	Direct to Garment	
Print Heads	**Kornit Avalanche :** Spectra Piezo electric, 12 heads, 5 colors, 256 nozzles per head	**Kornit Avalanche DC Pro:** Spectra Piezo electric, 14 heads, 5 colors, 256 nozzles per head
Printing Area	Up to 23.5 X 35 in / 60 X 90 cm	
Printed Substrates	Cotton, Polyester, Cotton-Polyester Blends, Lycra, Viscose, Silk,Leather, Denim, Linen, Wool and more	
Throughput (A4 shirts/hour)	Light garments: Up to 200, Dark garments: Up to 100	
Dimensions	138 X 91 X 67 in / 350 X 230 X 170 cm	
Weight	Approx. 2200kg	
Power Requirements	400/208 VAC, 50/60 Hz, 3 phase, 3W+N+PE	
Operating System	Supports Windows XP and Windows 7	
Operating Conditions	Temperature: 18° C – 30°C / 64.4° – 86° F. Humidity: 45%-95%	
Printing Resolution	Up to 630 dpi	

Kornit
Paradigm II

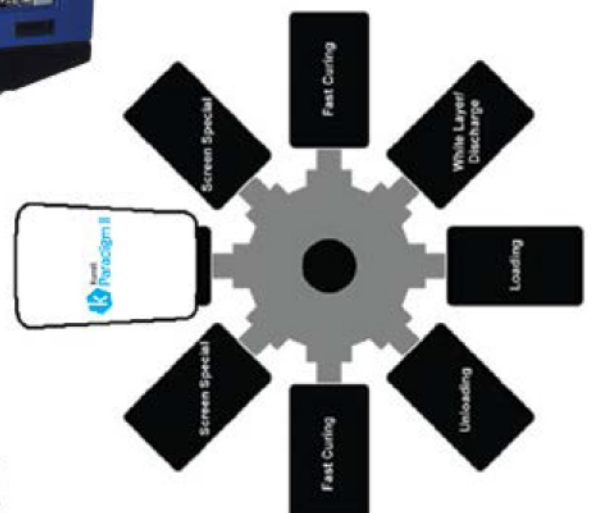## Combining the techniques of Screen Printing with the benefits of Digital Printing

The Kornit Paradigm II is the add-on solution specifically engineered to give screen printers the ability to print digitally on textile. Screen printers are able to enhance their print portfolio potential by introducing the digital element into their production line.

Produce complex digital and screen combinations in one job by combining flock, foil, metallic and glitter with high-quality digital print images. This digital add-on printer is the ideal solution for screen printers looking to expand into the growing digital market.

Quick facts

- Robust design for 24/7 production
- Compatible with both manual and automatic screen carousels and oval machines
- Industrial high volume Spectra Polaris™ print heads
- Print on multiple fabric types, including light, dark and dischargeable
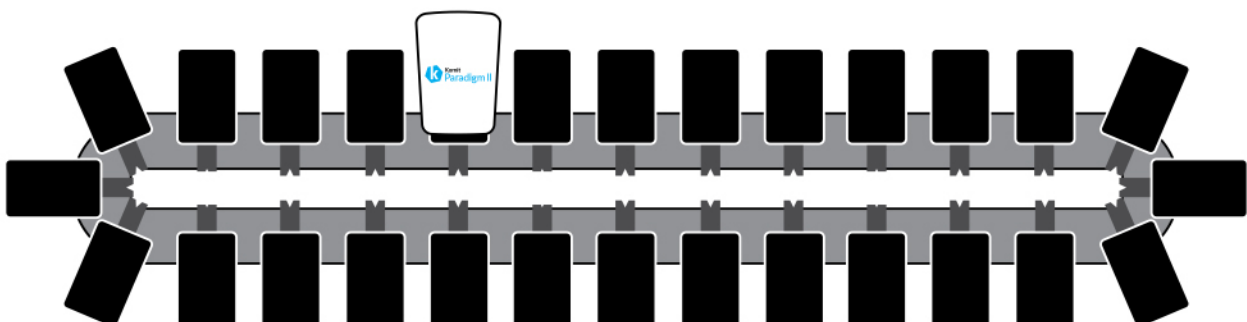- Consistently outstanding quality prints at the lowest printing cost

Enhance your ability to create innovative printing applications

Easily and cost effectively adapt to the changing and growing needs of your customers. Expand your traditional screen print carousel and oval machine by attaching the Kornit Paradigm II to one of its stations. With its automatic computer-to-print process and accurate registration, the Kornit Paradigm II can be moved between stations and requires no set-up procedures. Increase your capability to produce dark garment applications, variable data combinations, complicated four-color processes, spot combinations and pure digital applications for short runs. The Kornit Paradigm II works with the screen print process to produce high-quality and high-speed print results.
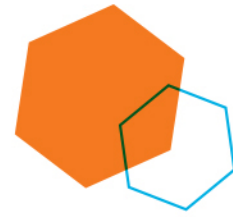
Kornit Paradigm II Technical Specifications

Printing Method	Direct to Garment
Ink Type	NeoPigment™ Ink
Print Heads	Spectra Polaris™ Electric, 8 heads, 4 colors, 256 nozzles per head
Printing Area	Up to 15.5 X 19.5 in / 39.5 X 49.5 cm
Colors	White garments: 4 CMYK process colors, pretreatment required Dark garments: Screen printed white base ink or discharge based compatible with NeoPigment™ CMYK
Printed Substrates	Textile, cotton, cotton-polyester blends, lycra, viscose, silk, leather, denim and more. Rigid and flexible materials optional
Throughput (shirts/hour - A4	Up to 200 (depends on resolution, quality mode, carousel movement time)
Dimensions	118 x 74.8 x 62.9 in / 300 x 190 x 160 cm
Weight	Approx. 500 kg / 1100 lb
Power Requirements	230/115 VAC, 50/60 Hz, 1 phase
Operating System	Windows XP and Windows 7
Operating Conditions	Temperature: 18° C – 30°C / 64.4° – 86° F. Humidity: 45%-95%
Printing Resolution	Up to 600 dpi

Kornit
Thunder

Industrially engineered Direct to Garment printer for medium-level production

The Kornit Thunder is specifically engineered to combine high-end technology and performance with low production costs. It is robustly designed for industrial use and for businesses with medium-volume production needs.

Capable of printing on a wide range of garments and applications, it enables custom medium-level direct to garment printers to effectively and efficiently attain optimal printing results.

The Kornit Thunder's robust design and advanced technology provides high-quality performance and speed at an affordable price.

Quick facts

Our revolutionary NeoPigment™ process brings the benefits of textile pigment printing to the digital world

- Print on multiple fabric types, both light and dark
- Integrated automated pretreatment process
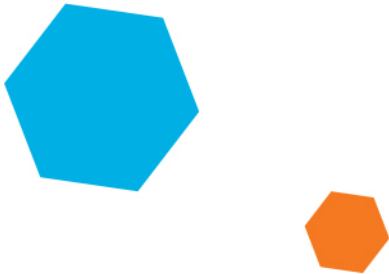- Consistently outstanding print quality results

Starting you on your industrial digital textile print journey

Equipped with an automatic file-to-print workflow and high-production capability, online businesses can easily and efficiently digitally print medium-size custom runs. Designed to handle a large range of garments and textile applications, the wide color gamut lets you print vibrant and exciting creations on both light and dark garments. The Kornit Thunder provides its users with fast turnarounds and the highest profitability at the lowest printing costs in the market.
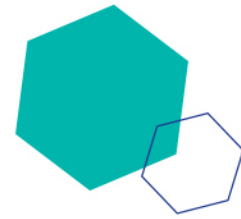
Kornit Thunder Technical Specifications

Printing Method	Drop-on-Demand
Print Heads	Spectra Piezo Electric, 6 heads, 5 colors, 256 nozzles per head
Printing Area	Up to 14 x 18 in / 35 x 45 cm
Printed Substrates	Cotton, Polyester, Cotton-polyester blends, Lycra, Viscose, Linen, Leather, Denim, Silk, Wool and more
Throughput (shirts/hour - A4)	Light Garments: up to 80, Dark Garments: up to 30
Dimensions	70 x 46.5 x 54.5 in / 175 x 115 x 135 cm
Weight	Approx. 600 kg / 1322 lbs
Power Requirements	230/110 VAC, 50/60 Hz, 1 phase, W+N+PE
Operating System	Windows XP
Operating Conditions	Temperature: 18° C – 30°C / 64.4° – 86° F. Humidity: 45%-95%
Printing Resolution	Up to 630 dpi

Kornit
Breeze

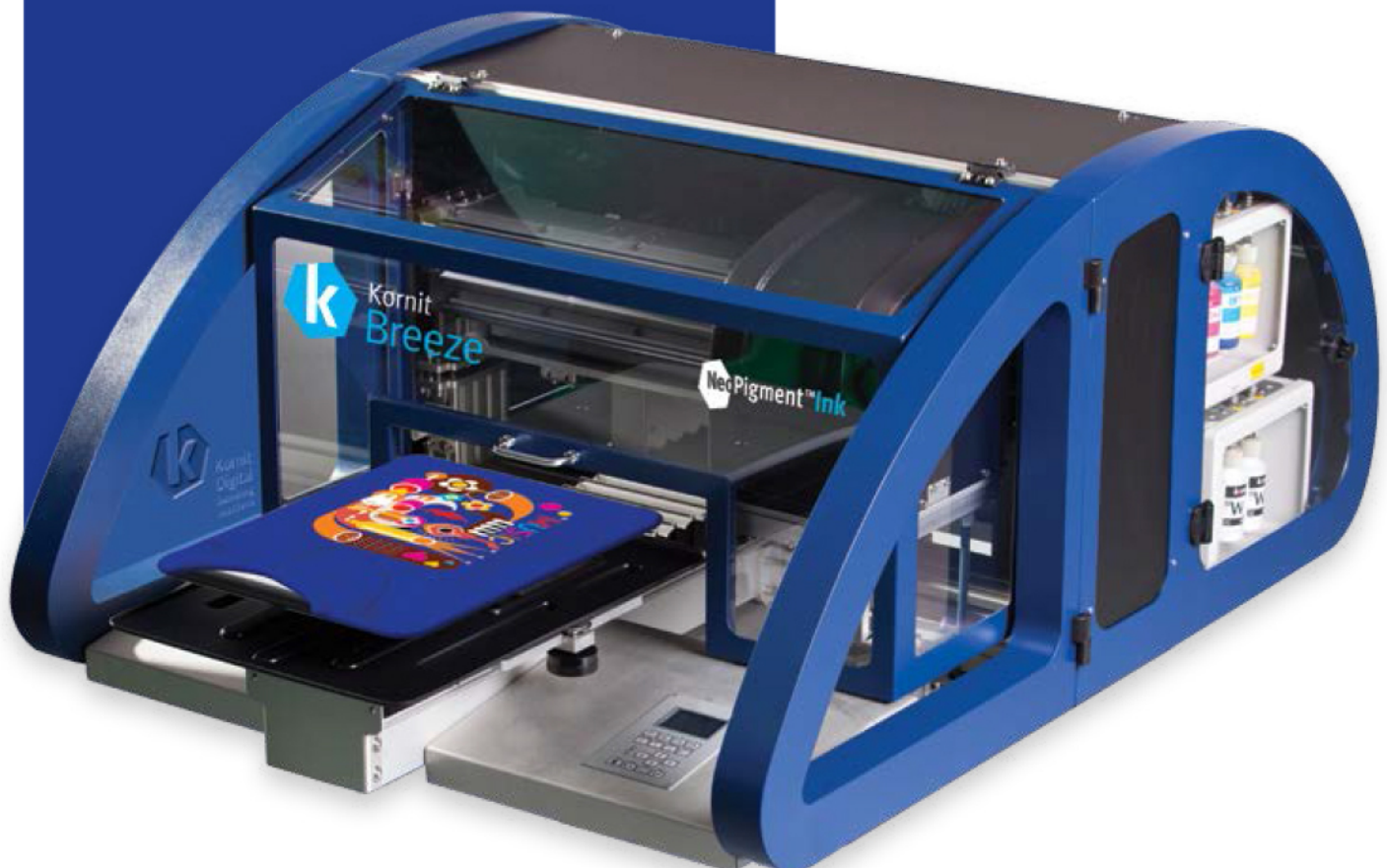## Engineered specifically for small to mid-sized commercial Direct to Garment printers

The Kornit Breeze is compact, robust and engineered to combine high-end technology and performance with affordable printing at entry level cost.

Developed with small to mid-sized production businesses in mind, it provides the ideal Direct to Garment solution to new or expanding businesses entering the digital garment print market.

Quick facts

Our revolutionary NeoPigment™ process brings the benefits of textile pigment printing to the digital world

- Print on multiple fabric types, both light and dark

- Integrated automated pretreatment process

- Consistently outstanding quality prints at the lowest printing cost

Experience big results from a compact package

With its easy to operate file preparation and production software, the Kornit Breeze arrives at your door ready for ecommerce and web-to-print, making it the right choice for both online and retail shops. The compactly designed portable Kornit Breeze is designed with an integrated automatic pretreatment, degassing and maintenance system, can be connected to any computer with a USB port and requires only one operator. Print on dark garments faster and more efficiently with our one-pass white and CMYK printing process.

Kornit Breeze Technical Specifications

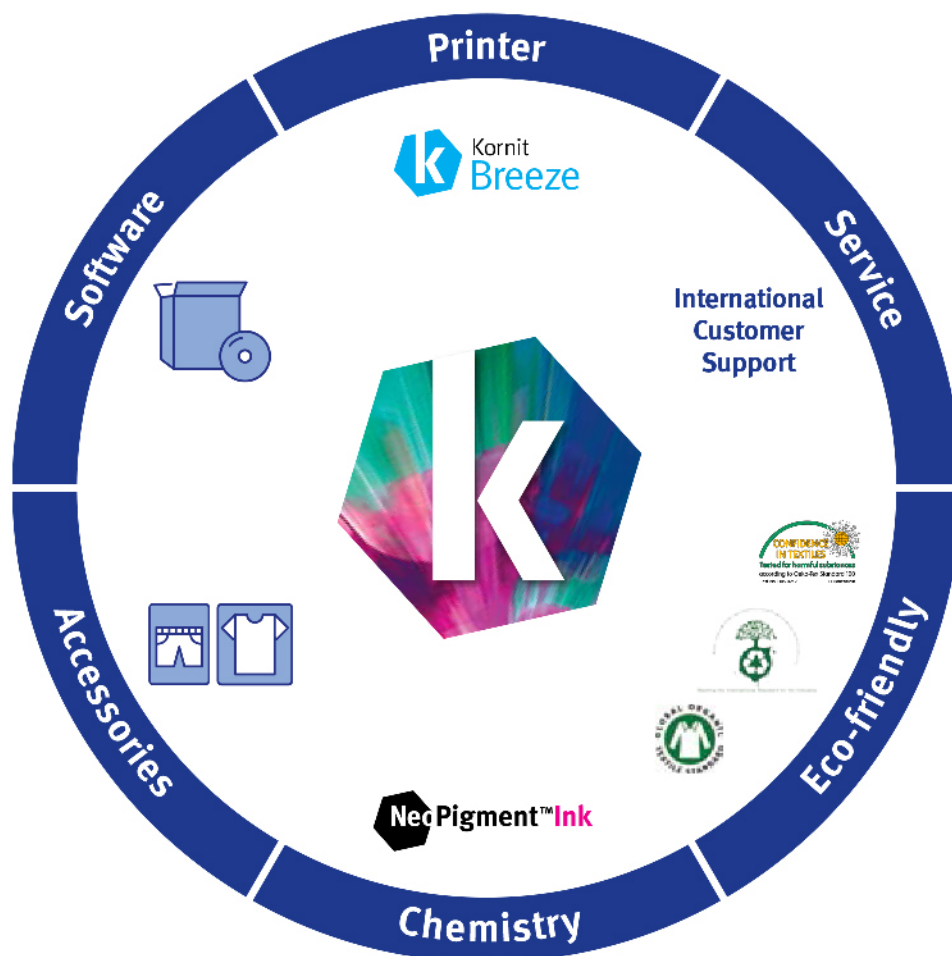|	
Printing Method	Drop-on-Demand
Print Heads	Spectra Piezo Electric, 6 heads, 5 colors, 256 nozzles per head
Printing Area	Up to 14 x 18 in / 35 x 45 cm
Printed Substrates	Cotton, Polyester, Cotton-polyester blends, Lycra, Viscose, Linen, Leather, Denim, Silk, Wool and more
Throughput (shirts/hour - A4)	Light Garments: up to 40, Dark Garments: up to 25
Dimensions	45 x 59 x 27.5 in / 114 x 150 x 70 cm
Weight	210 kg / 462 lbs
Power Requirements	230/110 VAC, 50/60 Hz, 1 phase, W+N+PE
Operating System	Windows XP, Windows 7
Operating Conditions	Temperature: 18°C-30°C / 64.4°F-86°F, Humidity: 45%-95%
Printing Resolution	Up to 600 x 600 dpi

Kornit Digital's Complete Printing Solution

The Kornit Breeze is more than a machine built for long-term stability. When you join the Kornit Digital family you benefit from our eco-friendly, fully integrated, complete digital printing solution. Gain from our advanced technologies, operational software packages and world-class international support. Enjoy the benefits of textile pigment printing in the digital world with our in-house developed revolutionary NeoPigment™ process. Whether you are just starting out or growing, let our extensive print portfolio and full array of services accompany you on your move to the next level.

We are

The only company that design and build printers, and develop and manufacture our own ink, pretreatment system and software specifically for the garment and textile printing markets.

We provide

The reliable, easy-to-use, low maintenance, affordable and eco-friendly complete solution that allows printing on multiple fabric types, in one machine.

So you enjoy

Cutting-edge digital pigment printing with the broadest color gamut on a wide variety of fabric substrates, with a single ink set.

Saving you

Money, time, space and resources while retaining full production control and producing phenomenal quality results.

Kornit Allegro

The single-step solution to printing on textiles

The textile industry as we know it is changing. The demand for digitally printed imaging is growing and the focus on environmental awareness increasing. We know that it is time for an innovative change in the way people print on textiles. Challenging the industry status quo is the Kornit Allegro, the groundbreaking single-step digital textile printing solution.

We bring all the benefits of textile pigment printing to the digital world by combining Kornit Digital's advanced technology with our revolutionary NeoPigment™ process. We provide you with an unprecedented color gamut and the ability to print any design, in any number of color combinations, at any level of detail. Utilizing our expertise in chemistry and experience in digital printing, we bring you the most advanced and cost-effective digital printing solution for textile.

The Kornit Allegro eliminates the need for the pretreatment required by other digital printers. The post-print wet processes necessary in dye-based solutions are not needed. With the Kornit Allegro, not one inch of fabric goes to waste. Print multiple short runs in one roll, on multiple fabric types, with no minimum length requirement. Textile printers can now respond to customer and market demands as they occur.
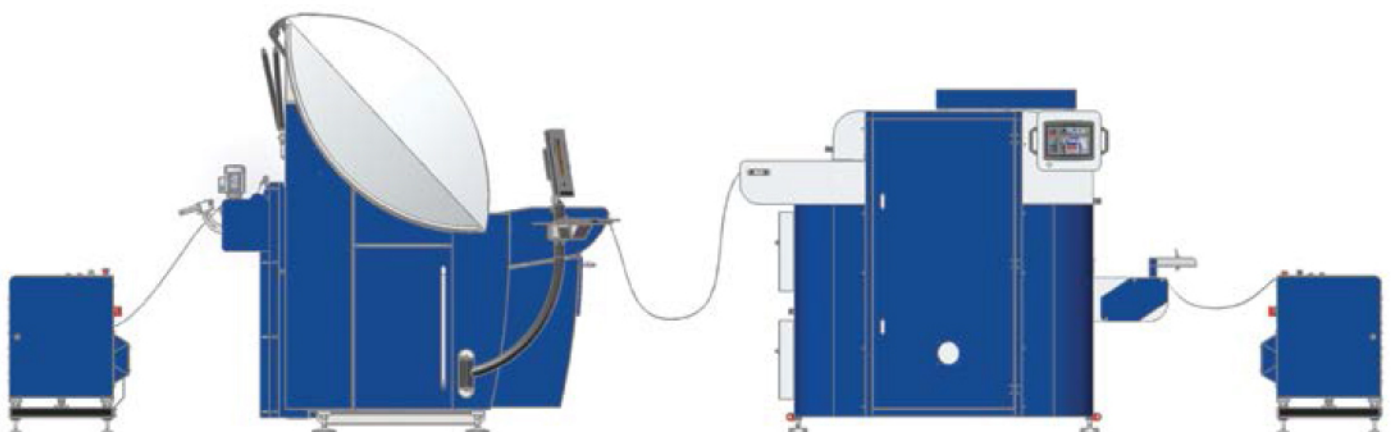
Quick facts

- Print on multiple fabric types with one NeoPigment™ ink set
- No need for any external processes such as pretreatment, steaming and washing
- Print from the first inch until the last
- Engineered for environmental sustainability

Kornit Allegro Technical Specifications

Printing	Print Heads	Spectra Polaris
	Print Heads Configuration	64 Heads, 7 colors + Inline ink fixation agent
	Printing Resolution	400-1200 dpi
	Printing Speed	300 m^2/hr in high speed mode
	Max Printing Width	180 cm / 7.08 in
NeoPigment™Ink	Ink Type	Kornit's water-based NeoPigment™ ink + Inline fixation agent
	Ink Colors	Cyan, Magenta, Yellow, Black, Red, Green, Gray
Compatible Media	Fabric Types	Woven/Knitted/Non-Woven
	Fiber Types	Naturals: Cotton, Linen, Viscose and more
		Synthetics: Polyester, Nylon and more
		Protein based: Silk, Wool and more
		Blends: 50/50 Cotton/Polyester and more
Media Transportation	Media Transportation	High precision adhesive belt conveyor system
	Fabric Feeding System	Axial unwinding system with adjustable fabric width and tension mechanisms
	Max Media Thickness	15 mm / 0.59 in
	Max Roll Width	180 cm / 70.8 in
	Max Roll Outer Diameter	40 cm / 15.74 in
	Max Roll Weight	50kg / 110.2lb
Technical Specifications	Power Supply	110/220V, 60/50 Hz, 40A, 3Ph+N+GND 25kW
	Compressed Air	6-8 bar/ ≤ 0.4 m^3/min
	Dimensions (W x D x H) *Printer Only	460 x 699 x 214 cm / 181 x 80 x 84 in
	Dimensions (W x D x H) *Entire Solution	460 x 699 x 214 cm / 181 x 275 x 84 in (including loader, unloader and dryer)
	Weight	3500kg / 7716.17lb
Dryer	Dryer Type	Allegro Triple Pass Air-Blow Dryer (Electric or gas versions available)
	Dimensions (W x D x H)	283 x 226 x 192 cm / 111.4 x 89 x 75.6 in
	Weight	1520kg / 3351lb

Join the NeoPigment™ Revolution!

Enjoy the benefits of our in-house developed revolutionary NeoPigment™ process that introduces the benefits of textile pigment printing to the digital world. Take advantage of our unprecedented color gamut, allowing you to experience endless color combination possibilities.

Our water-based NeoPigment™ inks are absolutely free of heavy metals, formaldehyde and Alkylphenol Ethoxylates (APE), making them non-hazardous, non-toxic and 100% biodegradable. Answer the call of your customers, the market and the environment with Kornit Digital and our NeoPigment™ process.

Cyan   Magenta   Yellow   Black

GLOBAL ORGANIC TEXTILE STANDARD

Red   Green   Gray

CONFIDENCE IN TEXTILES
Tested for harmful substances
according to Oeko-Tex Standard 100
Test-No. 1308-0212   FI Hohenstein