

The Mutoh Viper TX 100 (260 cm) direct-to-textile and transfer sublimation printer opens up a host of new business opportunities for users requiring a versatile floor-to-ceiling production oriented printer. Offering typical production speeds up to 36 m²/h, the printer is suited for soft sign, garment/apparel and industrial applications such as home furnishings. Utilising VOC-free water based inks, the Viper TX 100 printer produces exceptional quality, durable and washable images for a wide variety of applications.

Printer Specifications	Viper TX 100
Head Technology	8 High-end drop-on-demand piezo print heads – variable drop – 2 nozzle rows with 180 nozzles each/head – drop mass (ng): 11.5, 14, 23, 25, 28, 41.5, 50, 69.5 and 83 ng
Maximum Media Width	2604 mm (102.52")
Maximum Print Width	2594 mm (102.12")
Media Types	Media thickness range: 0.05 mm – 1.5 mm Supports all typical dye sublimation transfer paper weights and fabrics with open structure Typical transfer paper weights: from 70 g/m ² to 150 g/m ²
Media Rolls	Maximum load: 100 kg - Maximum media diameter: 300 mm Media core: 2" or 3"
Media Thickness Compensation	Automatic media thickness compensation Variable - RIP controlled - Head Heights : 1.2 mm, 2 mm, 3 mm & 4 mm
Max. Print Speed / Production Speed	76 m ² /h / 36 m ² /h
Resolutions	360 x 360 dpi, 720 x 360 dpi, 540 x 720 dpi & 720 x 720 dpi
Intelligent Interweaving (i ²)	<ul style="list-style-type: none"> • 4 Levels: Off, Stitch, Picture/Speed and Sign/Quality • Compatibility: 360 x 360, 720 x 360, 540 x 720 and 720 x 720 dpi • Print modes: native, double density, fast & fast high density HD
Colour / Ink Setup	4 colours : 4x4 CMYK (same ink type – double autonomy) 6 & 8 colours : mix of process & spot colours possible
Ink Capacity / Type	<ul style="list-style-type: none"> • Indoor/Outdoor Applications : Mutoh water based direct disperse inks – 1 litre bottles – CMYK • Indoor Applications : Mutoh high speed water based disperse dye inks – 1 litre & 5 litre bottles – CMYK
Heaters	Incorporated heater system: Pre-heater (max 70 °C), Post Print Heater (max 70 °C) and Dryer (max 70 °C)
LCD Display	Backlight LED – 4 lines x 20 characters – Blue background / white text
Interface	Ethernet Network Card 10/100base-TX / Centronics, IEEE 1284 compatible
Graphics Command Language	RTL-PASS
Print Engine Working Environment	Temperature: 19 – 26 °C (Δt max 2 °C/h) Relative Humidity: 40 – 60 % RH (no condensation - ΔRH max 5 % RH/h))
Optimum Working Environment	Temperature: 20 °C / Relative Humidity: 45 % RH (no condensation)
External Dimensions in mm (W x D x H)	4500 x 900 x 1300 mm
Weight	500 kg
Power Consumption	2250 W print mode – 100 W in stand-by mode
Power Supply	220V only / 50-60 Hz / 12 A

Specifications and machine configurations are liable to changes without prior notice. All trademarks mentioned are property of their respective owners. Images in printer courtesy of & copyrighted by Joris Lugtigheid. Features of the Viper TX 100 include but are not limited to the mentioned features in the brochure. For more product information, contact your nearest Mutoh authorised reseller at www.mutoh.eu.

Direct-to-Textile & Dye Sublimation Printer



Best of both: print directly on open structure textiles and print on paper by dye sublimation

Mutoh proprietary i² Intelligent Interweaving print technology: predictable, reliable & consistent print quality

2.6 metre media width !

8 heads, 16 channels, proven inkjet technology

Environmentally friendly printing – high level of operator safety

Patented extra tensioning tool (ETT) for easy volume printing on transfer paper

Motorized heavy duty unwinder / winder system takes 100 kg rolls

Print bed & capping area illumination with light strips



viperTX 100

> Viper TX 100

The Green Option for Versatile Printing

Today's expanding demand for both sublimation printing and textile applications such as soft signage, home furnishings and apparel is driving growth in the wide-format graphics industry for digital printing. At the same time, the obvious benefits of using environmentally-friendly water-based inks to produce exceptional quality, durable and washable images for a wide variety of applications continues to push this technology forward.

The Viper TX 100 textile /sublimation printer meets the demands of the green workflow essential to a 21st century digital printing facility. Apart from water-based inks, the Viper TX 100 prints on non-pvc materials that are recyclable. And, textile prints are more easily re-usable as well as lightweight and readily foldable to make transport far more energy and emission efficient.

Viper TX 100, a Universal Concept

Discover Mutoh's versatile Viper TX 100 (2604 mm – 102.52"). A built-in switchable, rotatable print platform makes the Viper TX 100 your versatile partner for high volume, high speed production of soft signage, graphics & banners, architectural graphics, sports arena displays, home decoration, customized gadgets (mugs, cups, mouse pads...), T shirts, hand bags, luggage, sportswear and much more.

Set up the print platform with ink gutter and the Viper TX 100 is ready for direct printing on open structure fabrics. Switch and rotate the print platform and the Viper TX 100 is ready for sublimation printing onto the thinnest transfer papers.

Either way, production versatility ranges from customized one-off projects to speed-intensive volume printing.



Volume printing with continuous ink delivery

The Viper TX 100 printer connects to Mutoh's optional professional continuous ink delivery system (BIS). Developed for speed-intensive volume-oriented users requiring a high-end, high-volume ink delivery and refill system, BIS offers long unattended printing options with minimum user intervention. The Viper TX 100 BIS combination includes an 8-bottle system. Each BIS ink bottle holds 4.3 litres and can be refilled while printing.



i² Intelligent Interweaving

Mutoh i² Intelligent Interweaving technology means you can effortlessly select the most suitable print mode and predict how long printing will take. Predictable, reliable and consistent quality from Mutoh i² printing technology brings you satisfied customers, profitable printing and repeat business. Learn more about Intelligent Interweaving at www.mutoh.eu/interweaving.

Speed / Performance

Mutoh's Viper TX 100 printer achieves a top speed of 76 m²/h. Quality production speeds of 36 m²/h are available with the intelligent interweaving 360 x 360 high definition mode. Highest quality prints (720 dpi) are delivered at 20 m²/h.

Ready for after-treatment

Sensors ensure the front and rear tension bar system maintains constant tension as media moves through the printer. Winding under even tension is particularly important for after-treatment on a calender.

Media productivity path

Printed media are instantly acclimatized and dried with the aid of three built-in, digitally controlled heating elements. They totally remove all water from the printed paper, preventing ghost images during calendaring. The heating elements are controlled individually, to a maximum of 70°C.

Managing Head Height

The Viper TX 100 has an adjustable head height ranging from 1.2 mm up to 4.0 mm, allowing users to print onto various transfer papers & offering maximum fabric compatibility. Moreover, special fabric retainers deal with fabrics or transfer papers where the edges carry loose fibres or tend to curl up.

High-end piezo print head technology

The Viper TX 100 is fitted with 8 drop-on-demand piezo inkjet heads. Each head has 2 x 180 nozzles. Using Dynamic Variable Dot Imaging Technology each ink droplet is individually adjusted to provide high speed and high quality printing with low ink consumption.

No worry water-based inks

There are no harmful VOCs to permeate your working environment when you print with Mutoh direct disperse inks and high speed disperse dye inks. That means there is no need for forced ventilation.

Mutoh fast-drying dye sublimation inks feature excellent nozzle stability for high speed and high volume printing. They offer a large colour gamut, including the deepest black on the market. Mutoh direct disperse inks and high speed disperse dye inks deliver top scores in wash fastness, rubbing and perspiration. The combination of affordable quality inks and engineering excellence makes the Viper TX 100 inkjet printer impressively versatile, delivering superb images for a wide variety of applications.

Perfect media handling

Unattended roll-to-roll printing is easy with the fully motorized heavy-duty unwinding/winding system for media rolls up to 100 kg. Logical design means loading and unloading the unwinder/winder system is quick and simple. Accurate unrolling and adequate tensioning at the front of the printer are ensured as special design media flanges on the (un)winder system maximize grip on the inside of the media core. This power grip mechanism provides increased grip on the cores without disturbing the media tracking. Perfect media tracking delivers straight winding of prints onto the take-up roll.

Fabric compensation

When set up for direct printing on open structure fabrics, the Viper TX 100 is equally suited for soft sign, garment / apparel and industrial applications such as home furnishings.

Switching the print platform means the Viper TX 100 is ready for sublimation printing even on the thinnest lightweight available transfer papers (70 g/m²). Built for production, the Viper TX 100 allows transfer paper to expand when absorbing the dye sublimation ink thanks to the proprietary pressure roller disabler tool. To compensate for media expansion during printing, Mutoh's patented ETT-system (Extra Tensioning Tool) keeps the media under a constant tension, minimising cockling and enabling high accuracy transfer of images. Additionally, the ETT system easily adapts to support different media roll sizes.

