



Ideally suited to volume producers of soft sign prints, Mutoh's Viper TX Soft Signage printers deliver exceptional quality for a wide variety of applications: heavy duty flags, banners, architectural graphics, sports arena displays, wall murals, home furnishings, curtains and much more.

| Specifications | ViperTX Soft Sign 65 | ViperTX Soft Sign 90 |
|---|---|----------------------|
| Print Engine | | |
| Maximum Fabric Width | 1620 mm (63.78") | 2210 mm (87.00") |
| Maximum Print Width | 1610 mm (63.38") | 2200 mm (86.61") |
| Head Heights | 1.2 mm – 2.0 mm – 3.0 mm – 4.0 mm | |
| Head Technology | 8 Heads - 2 nozzle rows per head with 180 nozzles each Variable dot drop-on-demand Micro Piezo Inkjet Technology | |
| Colour Channels | Supported ink set-ups: 4, 6 and 8 ink colours Set-up as process colour or as spot colour is possible | |
| Ink Supply | 8 ink slots / connect to Mutoh's Bulk Ink System (BIS) | |
| Print Modes & Panel Control Options | Uni & Bi-directional output, job status (printed amount of m ² , percentage progress & time left to complete), Intelligent Interweaving | |
| Available Drop Mass Values | 5.4, 10.8, 11.5, 14, 23, 25, 28, 42, 50, 56, 69.5, 83 ng | |
| Display | Backlit LCD Display – 4 lines x 20 characters - blue background / white text – multi-language Fabric process control via touch screen display on swivel arm | |
| Interface | Network: Ethernet 10/100Base-TX | |
| Fabric Handling, Drying & Fixation | | |
| Fabric Transport | Unwinding & winding with dancer bars for rolls up to 150 kg Ready for inside & outside unwinding & winding Front & back belt system for stable fabric tracking | |
| Ink Collection Gutter for Flag | Yes, standard | |
| Roll Media Core / Diameter | 3" standard, 2" optional / max. 300 mm | |
| Drying System | IR dryer & fan bank | |
| Fixation Unit | Contact drum with integrated IR lamp / Typical working temperature 180 °C Fixation time: print mode dependent – typical: 80 s – 180 s Cooling down delay : none Switch ON timer for quick start in the morning | |
| Fume Handling & Fabric Dust Collection | Multiple connection points for connection of a fume and fabric dust collection appliance | |

© 2010 Mutoh Belgium nv . Specifications and machine configurations are liable to changes without prior notice. All trademarks mentioned are property of their respective owners.

Soft Signage Printer



Professional direct-to-fabric piezo inkjet printers: 64" (162 cm) and 87" (221 cm)

Direct printing on soft sign polyester fabrics

Integrated drying and fixation system : prints immediately ready for use !

Heavy-duty media unwinding/winding system - media rolls up to 150 kg

Typical production speeds up to **37 m²/h**

Paper-free workflow with Mutoh water-based direct disperse inks

Deep & vivid colours with excellent outdoor durability

i² Intelligent Interweaving technology inside : fit-for-purpose print quality



> Immediately Ready Environmentally Friendly Prints

Mutoh's Viper TX Soft Sign printers are purpose built for professional sign print businesses looking for an integrated direct printing and fixation solution. Available at 1620 mm / 63.78" & 2210 mm / 87", they are ideal for the production of flags, decorative textiles, displays, and many more applications, offering a total solution for direct printing of polyester fabrics with both open or closed structure. Backed by Mutoh expertise and engineering, Viper TX Soft Sign is a reliable production machine with all the features required to accurately load, transport & tension, dry, heat-fix and roll up finished prints. The engines have been tuned to Mutoh's VOC-free, water-based direct disperse inks to deliver top print quality and excellent durability. Prints are dried immediately then heat fixed by the integrated fabric drying and fixation system, making them immediately ready for use.

A Green Workflow

Viper TX Soft Signage printers address the key demands for a green workflow. Using water-based inks, they print directly onto polyester fabric with no need for transfer paper. Keeping the environment in mind, printing signage on fabric is preferable because it folds easily, is light to transport, re-usable and, last but not least, polyester fabrics are recyclable.

While providing a green workflow, Viper TX Soft Signage printers and Mutoh water-based inks create a new way of advertising with a warm and luxurious display to attract attention among the crowds. Latest trends such as web-to-print, print-on-demand and customization will be key drivers for the direct-to-fabric printing markets, supported by cost-effective inkjet printing.

Speed / Performance

Mutoh's Viper TX Soft Sign 90 printer achieves a top speed of 77 m²/h (65": 63 m²/h). Production speeds of 37 m²/h on TX Soft Sign 90 are reached with the i² 360 x 360 high definition mode (65": 33 m²/h). Quality production speeds (360x360 FAST) of 24 m²/h are reached on TX Soft Sign 90 (65": 22 m²/h). Highest quality prints (720 dpi) are delivered at 17 m²/h (65": 15 m²/h).



Ready for Fume Extraction

To remove vapours when heat fixing direct printed fabrics, the Mutoh Viper TX Soft Sign can be directly connected to Mutoh's optional fume extraction system. This system has been designed to capture the odour, dust and vapour which may be released from the printed fabric when heated during the fixation process.

High-end Piezo Print Head Technology

Viper TX Soft Signage printers incorporate eight drop-on-demand piezo inkjet heads. Each head has 2 x 180 nozzles. Using Dynamic Variable Dot Imaging Technology, each ink droplet is individually adjustable to provide high speed and high quality printing.

Managing Head Height

Viper TX Soft Sign printers have 4 different head heights ranging from 1.2 mm up to 4.0 mm, allowing users to print onto various textiles and offering maximum substrate compatibility.

Fabric Process Control

Via a touch screen display on a swivel arm, the fabric process (belt movement, temperature settings fixation unit, etc.) can easily be controlled both at the front and rear of the machine.

1. Perfect Media Handling

The back/front fabric transport belt accurately guides the fabric through the printer and keeps it flat during printing. Back and front dancer bars keep the printed fabric under even and constant tension as it is fed towards the heat fixation unit. The threading bar will allow the user to effortlessly guide the fabric around the heat fixation unit.

2. In-line Drying of Printed Fabrics

The infra red dryer and fan bank dry the printed fabric before heat fixation, evaporating water from the ink to ensure successful fixation.

3. Accurate Fixation

After drying, the printed fabric is fed into the heat fixation unit, consisting of a contact drum with integrated infra red lamp. Its typical working temperature is 180 °C. The fixation time depends on the print speed and the fabric type used, with no delay for cooling down. An integrated 'switch ON' timer makes sure the Viper TX Soft Sign is ready for production in the morning. The TX Soft Sign printer can also be used as a stand-alone fixation unit.

4. Immediately Ready

The heat fixed print is fed towards the automatic winder system via a static tensioning bar that exerts extra pressure on the fabric before it is rolled up. The fabric roll unit incorporates a pneumatic shaft. Applying compressed air tightens the roll core of the fabric to the shaft, enabling perfectly straight unwinding/winding of the fabric during printing. The motorised winder unit for media rolls up to 150 kg automatically rolls up the prints, ready for use.

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. Predictability, reliability and consistent quality from Mutoh i² printing technology brings you satisfied customers, profitable printing and repeat business. Learn more about Intelligent Interweaving and Viper TX Soft Sign's dedicated i² print modes at www.mutoh.eu/interweaving

Worry-free Water-based Inks

Mutoh water-based direct disperse inks are free from harmful VOCs. That means there is no need for forced ventilation. They feature excellent nozzle stability for high volume printing, offer a large colour gamut and have an excellent outdoor UV durability, rated up to 1 year. Available in 1 litre bottles, these inks allow direct printing onto polyester fabrics with no need for washing. Fixation is done via a heat source, without pressure. As a result, the combination of affordable quality inks and Viper TX Soft Signage printers with integrated heat fixation is ideal for competitive delivery of superb images for a wide variety of applications.

Volume Printing with Optional Bulk Ink System

Viper TX Soft Signage printers connect to Mutoh's optional bulk ink system (BIS) for speed-intensive, volume-oriented users.

