



The 1620 mm / 63.78" & 2210 mm / 87" Viper TX Professional printers are purpose built to deliver samples and production runs of customized and personalized fabrics for the traditional textile & apparel market. The Viper TX Professional is a reliable production machine with all the features required to accurately load, transport, meander control & tension, dry and roll up finished prints.

Specifications	ViperTX Professional 65	ViperTX Professional 90
<b>Print Engine</b>		
Maximum Fabric Width	1620 mm (63.78")	2210 mm (87.00")
Maximum Print Width	1610 mm (63.38")	2200 mm (86.61")
Head Heights	3.2 mm – 4.0 mm – 5.0 mm – 6.0 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	360 x 360 dpi, 720 x 360 dpi, 540 x 720 dpi, 720 x 720 dpi Uni- & Bi-directional output, Single & double density print modes, job status (printed amount of m <sup>2</sup> , percentage progress & time left to complete), Intelligent Interweaving	
Available Drop Mass Values	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 Belt control via touch screen display on swivel arm	
Interface	Network: Ethernet 10/100Base-TX	
<b>Fabric Handling &amp; Drying</b>		
Fabric Transport	Unwinding & winding system for rolls up to 150 kg Ready for inside & outside unwinding & winding Fabric spreader & curved tension bar Adhesive belt system Continuous washing unit	
Roll Media Core / Diameter	2" (standard) 3" (optional) / max. 300 mm - working pressure 6 bar	
Drying System	Infra red dryer & fan bank	
Fabric Dust Collection	Multiple connection points for fixation of a fabric dust collection appliance	
<b>Environment</b>		
External Dimensions in mm (WxDxH)	3074 x 1580 x 1690    3677 x 1580 x 1690	
Power Supply / Power Consumption	240/415 V: 4 wire +PE (WYE) / 20 A / 50-60 Hz / 5500 Watt	
Print Engine Working Environment	Temperature: 19 – 30 °C (Δt max 2 °C/h) Relative Humidity: 40 – 65 % RH (no condensation - ΔRH max 5 % RH/h)	
Optimum Working Environment	Temperature: 20 °C / Relative Humidity: 45 % RH (no condensation)	

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Creation, we make it happen ...



Textile printing  
for special design, personalized fashion  
& home decoration fabrics



Digital textile production printer ideal for the apparel and furnishing markets

Perfect positioning of fabrics with unique meander control system

Adhesive belt ensures precise fabric transportation

Integrated washing unit refreshes adhesive belt

Media rolls up to 150 kg on heavy-duty unwinder/winder system

Fast fabric drying with two infra red units and fans

Wrinkle-free printing thanks to fabric spreader bar

Delicate fabrics handled with care by curved tension bar

Textile printing for special design, personalized fashion & home decoration fabrics.

Mutoh's Viper TX Professional printer provides reliable, high quality, textile printing for the traditional textile & apparel market at costs well below those associated with screen printing. At the same time it drastically improves lead times for a flexible & fast design-to-delivery cycle. The wide range of application possibilities allows users to deliver samples and production runs of customized and personalized fabrics. The Viper TX Professional is an optimum choice for users adopting the latest direct-to-fabric design and print trends such as web-to-print, print-on-demand and customization.

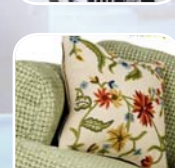
Available at 1620 mm / 63.78" & 2210 mm / 87", the Viper TX Professional is ideal for printing fabrics for swimwear, sportswear, curtains & drapery fabrics, decorative fabrics, customized and personalized fabrics, and many more applications. Backed by Mutoh expertise and engineering, Viper TX Professional is a reliable production machine with all the features required to accurately load, transport, meander control & tension, dry and roll up printed fabrics.

### Application Possibilities

From sample creation to small production runs of customized and personalized fabrics, the Viper TX Professional digital printer is ready to print directly onto textiles with open or closed structure (PES flag, cotton, silk ...). The machine offers a full freedom of ink set up: 8 colours (possible mix of process and spot colours for maximum colour gamut), 6 colours, CMYK + CMYK (mixed ink type) and 2x4 CMYK (speed & ink autonomy set-up). The choice of ink type depends on the fibres used to make the fabric.

### Optional Bulk Ink System

Viper TX Professional printers connect to Mutoh's optional bulk ink system (BIS). The BIS was developed for speed-intensive, volume-oriented users that require a high-volume ink delivery and refill system. The bulk ink system can be easily mounted on top of the printer.



### 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 at [www.mutoh.eu/interweaving](http://www.mutoh.eu/interweaving).

### Washing Unit for Refreshing the Adhesive Belt

The washing unit consists of a rotating brush & spray bar with a stainless steel water tank. It cleans the adhesive belt to prevent 'back printing'. A silicon squeegee blade dries the adhesive belt; then an infra red heater dries the belt.

### Print Stretch and Knitted Fabrics without Distortion

#### Flattening the Fabric

A professional fully motorized heavy-duty unwinding system, incorporating a pneumatic shaft, in combination with the fabric spreader & curved tension bar, delivers straight unwinding of stretch, knitted, woven, open structure fabrics and fabrics which are difficult to print on.

#### Integrated Meander Control System

A precise meander control system with photo cells left and right will guide the fabric accurately onto the adhesive belt.

#### Integrated Adhesive Belt

The integrated adhesive belt transports the fabric through the print platform of the Viper TX Professional. The adhesive belt prevents even the smallest movements of the fabric, ensuring a stable and flat fabric surface during printing.

#### Careful Media Handling

Stainless steel pressure rolls with soft rubber surfaces support the fabric onto the adhesive belt without deformation.

#### Accurate Winding of the Printed Fabrics

A motorized heavy-duty winding system for media rolls up to 150 kg, incorporating a pneumatic shaft, automatically rolls up the printed fabrics, ready for after-treatment. Injecting compressed air into the pneumatic shaft tightens the grip between shaft and roll core, enabling perfectly straight winding of the fabric during printing. Proper fabric behaviour is monitored by sensors along the fabric path.

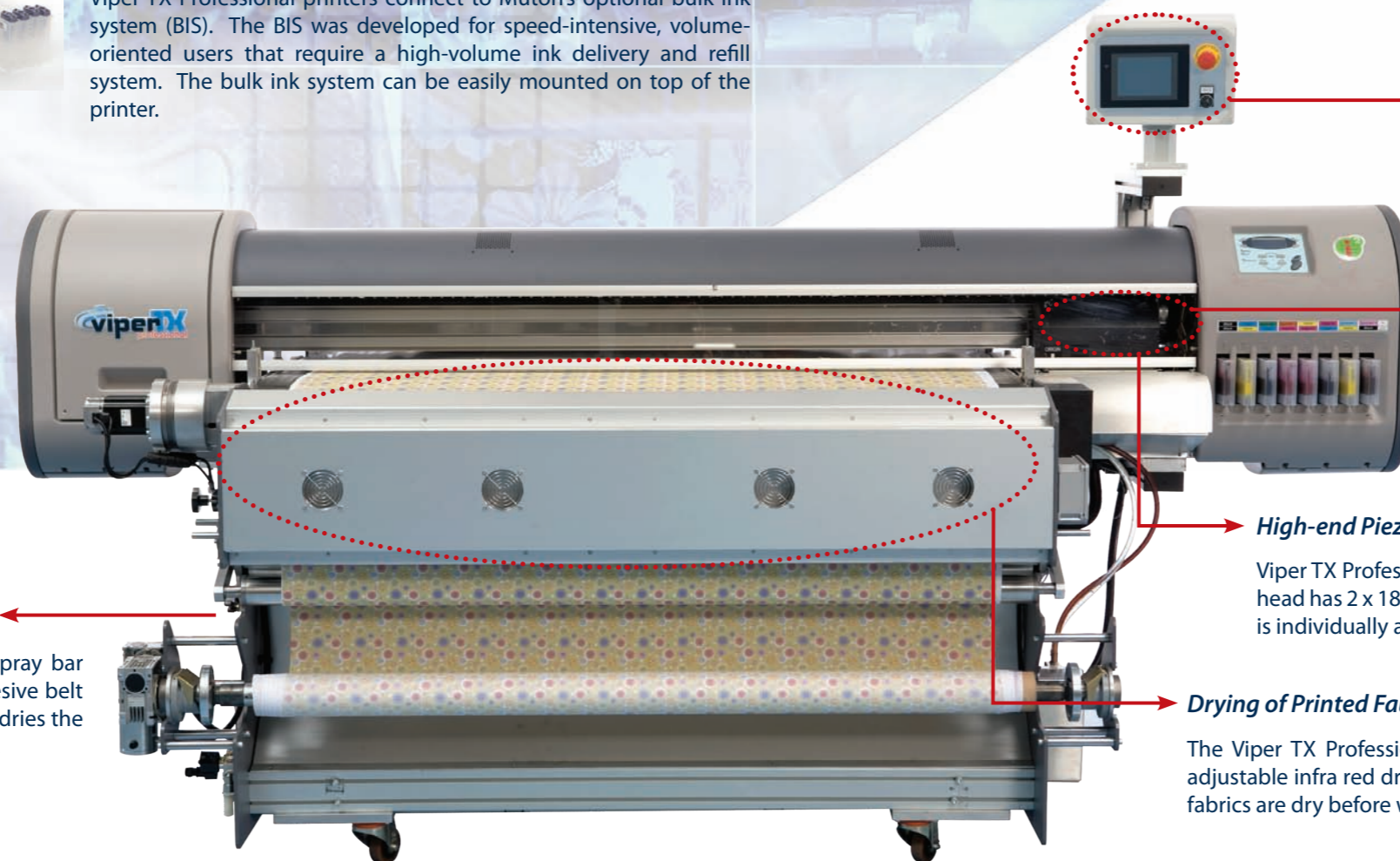


### Speed / Performance

	Viper TX Professional (*)	
	8 colour setup	4 colours setup
360 x 360 dpi	17 m <sup>2</sup> /h	Fast HD 360 : 32 m <sup>2</sup> /h
720 x 360 dpi	17 m <sup>2</sup> /h	24 m <sup>2</sup> /h
540 x 720 dpi	14 m <sup>2</sup> /h	21 m <sup>2</sup> /h
720 x 720 dpi	11 m <sup>2</sup> /h	16 m <sup>2</sup> /h

(\*) printing at 65" width - 2 pass, bi-dir, picture/speed.

Top engine speed: 63 m<sup>2</sup>/h (4C, 360 dpi, 1 pass, bi-di)



#### Fabric Process Control

Via a touch screen display on a swivel arm, fabric processing can be easily controlled both at the front and rear of the machine: adhesive belt movement, fabric dryer settings, automatic media alignment settings, spreader control & wash unit control.

#### Managing Head Height

Four different head heights (3.2 – 4.0 – 5.0 and 6.0 mm) offer maximum substrate compatibility, allowing users to print onto various textiles. Thanks to the larger head heights, also media with longer fibres can be safely printed. Maximum media thickness typically is 1.5 mm.

#### High-end Piezo Print Head Technology

Viper TX Professional 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.

#### Drying of Printed Fabrics

The Viper TX Professional printer incorporates dedicated drying equipment consisting of two adjustable infra red dryers and fans, located on the front of the printer. This combination ensures fabrics are dry before winding up.