Built to perform

MUTOH

ValueJet 1638X

Pushing the Boundaries of Speed, Quality & Ease of Use

Experience an unparalleled level of print quality and automation! Mutoh's high-end 64" (1625 mm) wide 2 x CMYK ValueJet 1638X production printer will meet your needs for speed, top quality, reliability and cost-efficiency.

To deliver best-in-class speed and superior print quality, the high-volume VJ-1638X features a high-precision mechanical design, latest generation piezo print head technology and new electronics including a powerful 64-bit RISC processor. ValueJet 1638X will deliver an unprecedented level of ease of use, thanks to Mutoh's award-winning Intelligent Interweaving (i^2) and the new DropMaster technology.

Compact and robustly built, this dual head printer is suited for the production of long term outdoor and indoor prints on a wide range of uncoated and coated substrates : posters, backlit signage, wall coverings, point-of-sale displays, fine art reproduction, vehicle graphics, stickers and much more.

Micro Piezo Print Heads

The VJ-1638X incorporates two latest generation micro piezo print heads, mounted in a staggered configuration. The area over which the printer actively spreads the ink dots covers nearly 2 inches, which allows increased print speeds with preservation of image quality! The heads are capable of firing ink droplets as small as 3.5 picoliters up to drop sizes of 35 picoliters. They ensure extremely precise dot generation and consistency for high quality production performance.

Cost-Effective Durable Inks

The ValueJet 1638X can be configured with two different ink types. Mutoh Eco Ultra inks, available in 220 ml and 440 ml cassettes, are Mutoh's third generation eco inks featuring improved ink fixation, better drying and improved scratch-resistance. Mutoh Universal Mild Solvent - UMS - inks are available in 440 ml cassettes and litre bottles, for use with Mutoh's bulk ink system. UMS inks combine the key benefits of resin-based, eco solvent and mild solvent ink chemistries. They offer an unrivalled colour gamut, covering 83% of the Pantone C® colour chart.

Both inks are suited for long term outdoor applications and are also an excellent choice for durable, photo-to-realistic prints for indoor usage. Output created using Eco Ultra and UMS inks are water resistant and offer a UV outdoor resistance of up to three years*.

(*) For heavy-duty applications where mechanical stress is involved (floor & vehicle graphics), lamination is required. Stabilisation is required prior to lamination.

Speed & Quality - The Real Combination of Both !

Mutoh's passion for perfection from design up to final quality control will help you achieve the highest levels of quality to satisfy your customers with output which will simply stand out and make heads turn. ValueJet 1638X delivers quality at high speed and at amazingly high resolutions, no matter whether you are printing on paper, vinyl or banner.
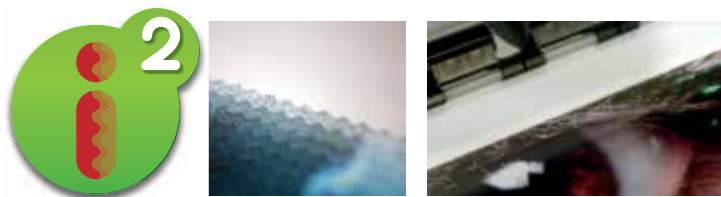
High Quality 1080 x 1440 dpi / 12 P	10 m²/h
Quality 720 x 1440 dpi / 8 P	15 m²/h
Quality Production 720 x 1080 dpi / 6 P	20 m²/h
Production 720 x 720 dpi / 4 P	29 m²/h
Speed Production 720 x 720 dpi / 4 P	36 m²/h
Billboard 360 x 720 dpi / 2 P	48 m²/h
Max. Speed 360 x 360 dpi / 1 P	94 m²/h

Advanced Print Automation

No need to be an expert to deliver consistent high quality with a ValueJet 1638X. Advanced print automation features will provide you a high level of ease of use which other wide format printers simply cannot keep up with.

Intelligent Interweaving

Mutoh's Intelligent Interweaving (i^2) print technology facilitates the process of multi-pass printing, eliminating or reducing banding to an absolute minimum.

New - DropMaster Technology

Get constant and uncompromised print quality on anything you feed into your VJ-1638X, from thin blue back paper to thick pvc banner ... effortlessly, thanks to Mutoh's proprietary DropMaster technology !

Specifically developed for Mutoh's dual head ValueJet models, DropMaster is a revolutionary print automation technique which eliminates the need for cumbersome and time consuming media dependent head adjustments. Knowing the media thickness and consequently the drop-throw distance between print head and media surface, DropMaster is capable of automatically recalculating and adjusting the uni/bi-directional fire timings. It does this regardless of resolution and print speed.

To learn more about Mutoh's Intelligent Interweaving & DropMaster technology, visit www.mutoh.eu/technology

Ready for High Volume Production

The standard ValueJet 1638X comes with a set of pre-mounted and repositionable scroller supports at the back for easy single operator roll loading. These will enable non-motorised roll off of rolls up to a weight of 30 kg.

Depending on your volume and application needs, different optional motorised take-up systems for roll weights up to 30 kg are available. We also offer fully motorised roll-off/take-up systems for rolls up to 80 and 100 kg.

> repositionable scroller support

> 30 kg motorised take-up system

> 80 kg motorised take-up system

> 100 kg motorised take-up system

SPECIFICATIONS

Technical Key Specifications

Print Technology	Drop-on-demand Micro Piezo Inkjet Technology
Print Head	2 (staggerd setup)
Nozzle Configuration	180 nozzles x 8 lines / head
Drop Mass Range (pl)	3.5 to 35
Head Heights (mm)	Low : 1.5 / Middle: 2.5 / High : 4.0

Media Specifications

Media Width	900 mm (36.8") - 1625 mm (63,97")
Max. Print Width	1615 mm (63,58")
Max. Media Thickness	0.3 / 1.3 / 2.8 mm *

* : Max. media thickness is specified per head height

Media Measurements *	Ø 150 mm / 2" & 3" / 30 kg

* : Standard non-motorised roll-off system

Media Drying System	Individually controlled pre-heater, fixer & dryer (30 - 50 °C)*

* : When printing onto slow drying media or applying high ink loads and/or printing at high speeds an additional drying system may be required.

Power Consumption

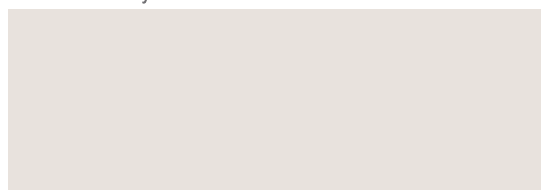|	
During Printing	650 W
In Stand-by	45 W
Warming Up	≤ 1100 W (main) & ≤ 1250 W (heat)
Power Supply	AC 100-120 V / AC 200-240 - 60/50 Hz

Recommended Working Environment

Temperature	22 °C - 30 °C with Δt: max. 2 °C/h
Humidity	40 % - 60 % (no condensation) with ΔRH: max. 5% RH/h

Machine Measurements

Width x Depth x Height	2698 x 885 x 1261 mm
Weight	221 kg

Performance

Speed	Details	Description	Highly recommended for
10.0 m²/h	1080 x 1440 dpi 12 p	High Quality	Miniature output with intricate details
15.0 m²/h	720 x 1440 dpi 8 p	Quality	Photo quality
20.0 m²/h	720 x 1080 dpi 6 p	Quality Production	Small size print to cut stickers
29.0 m²/h	720 x 720 dpi 4 p	Production	Standard production
36.0 m²/h	720 x 720 dpi 4 p	Speed Production	Speed production
48.0 m²/h	360 x 720 dpi 2 p	Billboard	Billboard speed Applicability to be judged on individual basis
94.0 m²/h	360 x 360 dpi 1 p	Max. Speed	Sprint speed Applicability to be judged on individual basis

Ink Specifications

Ink Type	Eco Ultra	/	UMS
Ink Volume	220 ml & 440 ml	/	440 ml & 1000 ml
Ink Colours	CMYK		
Ink Consumption *	8 ml / m²		

* : Average ink consumption graphics at @ 720 dpi - coverage of 67 %

UV durability - without lamination	3 years outdoor *

* : For heavy duty applications where mechanical stress is involved, lamination is required. Stabilisation is required prior to lamination.

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