



Built to perform

MUTOH

ValueJet 1638WX

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 ValueJet 1638WX dye sublimation inkjet 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-1638WX features a high-precision mechanical design, latest generation piezo print head technology and new electronics including a powerful 64-bit RISC processor. ValueJet 1638WX will deliver an unprecedented level of ease of use, thanks to Mutoh's award-winning Intelligent Interweaving (i²) and the new DropMaster technology.

Using Mutoh's VOC free water-based dye sublimation inks, the VJ-1638WX will print onto the thinnest sublimation papers. Compact and robustly built, this dual head printer is suited for the production of soft signage, clothing and gadgets: high quality in-store textile decoration & displays, textile banners, pop-ups, personalised home decoration, sportswear & shirts, mugs, phone covers and many more.

Micro Piezo Print Heads

The VJ-1638WX 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 5.9 picoliters up to drop sizes of 45.3 picoliters. They ensure extremely precise dot generation and consistency for high quality production performance.



Cost-Effective Dye Sublimation Inks

Produce with the environment in mind ! Mutoh's new water-based CMYK DS2-series transfer sublimation inks are 100 % VOC free and do not require any risk labelling. Developed specifically for the 1638WX print heads, the inks offer excellent nozzle stability for high speed and high volume printing and will produce perfect image sharpness and definition. Transfer is possible onto polyester fabrics, mixed fibre fabrics (min. 80 % polyester) or onto polyester coated objects.

> Digital Transfer

The Mutoh DS2 inks are odourless, both during the printing and the transfer process. They offer a wide gamut with bright and vibrant colours and furthermore give you comfortable light, washing and perspiration fastness properties.

Mutoh dye sub inks, available in bulk litre bottles for use with Mutoh's bulk ink system, enable you to lower your cost per copy. Paper prints are produced faster, which increases your productivity. You work with uncoated low-cost readily available polyester fabrics.



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 1638WX delivers quality at high speed and at amazingly high resolutions, whatever type of sublimation paper you are printing on.

High Quality - Super Fine 1080 x 1080 dpi / 9 P	11 m ² /h
Quality 720 x 720 dpi / 4 P	25 m ² /h
Production 360 x 720 dpi / 2 P	42 m ² /h
Speed Production 360 x 360 dpi / 2 P	50 m ² /h
High Speed Production 360 x 360 dpi / 1 P	65 m ² /h

Advanced Print Automation

No need to be an expert to deliver consistent high quality with a ValueJet 1638WX. 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 (i²) 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 any thickness/weight of transfer paper you feed into your VJ-1638WX ... 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

> Digital Transfer

Ready for High Volume Production

The standard ValueJet 1638WX 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)	5.9 to 45.3
Head Heights (mm)	Low : 1.5 / Middle: 2.5 / High : 4.0
Colour Set-up	2x4 CMYK (speed set-up) or 8 colour (gamut set-up)

Power Consumption

During Printing	200 W
Standby/Sleep/Power Off	38 W / 30 W / < 3.8 W
Power Supply	AC 100-120 V / AC 200-240 60/50 Hz
Noise (dB)	± 69.8 (printing) / ± 60.5 (standby)

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

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

Performance

Speed	Details	Description
11 m ² /h	1080 x 1080 dpi / 9P	High Quality – Super Fine
25 m ² /h	720 x 720 dpi / 4P	Quality
42 m ² /h	360 x 720 dpi / 2P	Production
50 m ² /h	360 x 360 dpi / 2P	Speed Production
65 m ² /h	360 x 360 dpi /1P	High Speed Production

All indicated speeds are obtained in 2x4 colour set-up and using full print width.

Machine Measurements

Width x Depth x Height	2698 x 885 x 1261 mm
Weight	219 kg

Ink Specifications

Ink Type	DS2-series Universal Transfer Sublimation ink			
Ink Volume	1000 ml			
Ink Colours	CMYK			
Ink Consumption Average	10 ml / m ²			
UV durability	3 to 6 months outdoor			
Light fastness - ISO 105-B02(*)	C (5-6)	M (6-7)	Y (6-7)	K (6)
Washing fastness - ISO 105-C02(*)	C (4-5)	M (4-5)	Y (4-5)	K (4-5)
Perspiration fastness - ISO 105-E02(*)	C (4-5)	M (5)	Y (4-5)	K (4-5)

(*)Score Ranges (min-max): Light 1-8 Washing 1-5 Perspiration 1-5

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