

# MUTOH

Creation, we make it happen...

## blizzard Eco & Mild Solvent Printers

Flexibility and speed to deliver quality and profit...



65" (165 cm) / 88" (224 cm) high volume mild solvent or eco-ultra printers

Fantastically fast, with impeccable quality at 40 m<sup>2</sup>/h

i<sup>2</sup> Intelligent Interweaving print technology incorporated

Standard with 100 kg motorised unwinder / winder

Top speed of 80 m<sup>2</sup>/h

A Mutoh Blizzard printer will make you reliable, fast and cost-effective !





## > BLIZZARD

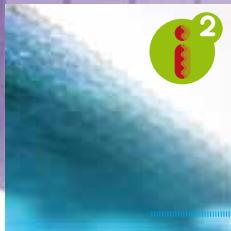
### MILD SOLVENT & ECO-ULTRA PRINTERS

*Mutoh Blizzard 65 (1651 mm) and Blizzard 90 (2240 mm) high speed, high quality printers will address the needs of typical sign makers & commercial printers focusing on high volume production of outdoor prints with medium term durability.*

*The smart exterior contains exclusive Mutoh technology, to deliver money-making flexibility. Ideal for small sign-printers needing versatility and for larger operations wanting to extend capacity while gaining flexibility.*

*Stepwise set-up with i<sup>2</sup> Intelligent Interweaving print technology gives you the perfect image definition for every job — deliver impeccable image quality and match customer needs exactly. Print time, costs and quality are totally predictable. A Blizzard makes you reliable, fast and cost-effective.*

*With a Mutoh Blizzard high speed printer, you need never be snowed under with work again. Need convincing? See the Blizzard in action at your Mutoh dealer and you will believe Mutoh means what it says: top speed, top precision, top performance.*



**Intelligent Interweaving inside**



**Wide Media Acceptance**



**Ready for Volume Printing**

**Durable Prints**

Mutoh Eco-Solvent Ultra & Mild Solvent Plus inks resist cleaners, detergents and commercially available degreasers. Outdoor durability of prints is up to 3 years\*. General purpose signs do not require lamination\*\*.

\* Based on accelerated weather tests. Northern European Standards.

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

## Speed / Performance

When speed is the main requirement, the Blizzard printer engine can reach speeds up to 80 m<sup>2</sup>/h. Thanks to our unique Intelligent Interweaving print technology, Blizzard is able to deliver top printing quality time and time again on a wide range of substrates.

Printing onto uncoated self-adhesive vinyl, banner, soft signage textile..., impeccable output quality (\*) is obtained (Blizzard 90):



- For "Sign" images at 6.6, 12.2, 16 and 25.5 m<sup>2</sup>/h  
The Sign weave is ideal for the most demanding users. Its focus is clearly on the top notch quality.
- For "Picture" images at 9.9, 13.5, 20.9 and 40 m<sup>2</sup>/h  
The Picture weave finds the best balance between speed and quality.

(\*) Free from typical inkjet printing artefacts such as horizontal banding, ink bleed and media step mismatch banding, even for close viewing distances (< 1 m).



## Ink Compatibility

Unique in the wide format printer market is that Blizzard 65 and Blizzard 90 can be used at the same performance level for both Mutoh Eco Ultra and Mild Solvent Plus inks !

		
Cassettes	220 ml & 440 ml	440 ml
Bottles	--	1 liter

Mutoh high performance Eco Ultra & Mild Solvent Plus inks are specifically tuned for the sign industry. The inks offer a wide and comfortable colour gamut. They have excellent drying and drop fixation characteristics, allowing them to cover the complete speed range on Blizzard, on a wide selection of uncoated media.



### Micro-Staggered High-End Piezo Print Head Technology

8 high-end piezo print heads are at the heart of the Blizzard's stunning performance. Two sets of four heads are aligned a micro-distance apart – one colour per head - allowing both speed-oriented production work at impeccable print quality as well as top quality print work. Each print head has two rows of 180 nozzles. Each 180 nozzle row is delivered by an independent ink channel. Using Dynamic Variable Dot Imaging Technology, each ink droplet is individually adjusted to provide high speed and high quality with low ink consumption.



### Wide Media Acceptance

Blizzard will print on a wide array of uncoated, eco-coated and coated substrates thanks to the unique characteristics of Mutoh Mild Solvent Plus or Eco-Solvent Ultra inks, piezo print heads, four built-in digitally controllable heating elements and i<sup>2</sup> Intelligent interweaving technology. Latest media compatibility information and free ICC profiles are available at [www.mutoh.eu](http://www.mutoh.eu).

### Bulk Ink System

For speed intensive, high volume users, the Blizzard using MS Plus ink connects with Mutoh's optional professional continuous ink delivery system.

Mutoh's optional Bulk Ink System (BIS), allowing 4.3 litre ink autonomy per bottle, is a high-volume ink delivery system offering long autonomy along with minimum user intervention. The ink bottles are refillable on the fly.



### Ready for Volume Printing

The Blizzard is delivered as standard with a specially developed, fully motorized heavy-duty unwinding/winding system for media loads up to 100 kg. This allows unattended roll-to-roll printing and ensures the Blizzard is immediately ready for volume production.



Printer specifications	Blizzard 65	Blizzard 90
Technology	Drop-on-demand Micro Piezo Inkjet Technology 8 heads – variable drop – 2 nozzle rows with 180 nozzles each / head Drop mass (ng) : 5.4, 11.5, 14, 25, 28 and 41.5	
Maximum Media Width	1651 mm (65.00")	2240 mm (88.18")
Maximum Print Width	1640 mm (64.56")	2230 mm (87.79")
Media Thickness	Range: 0.08 mm – 1.1 mm	
Diameter / Core	Maximum: 300 mm / 2" or 3"	
Weight	Maximum load: 100 kg	
Media Thickness Compensation	Automatic media thickness compensation Variable – RIP controlled – Head Height	
Resolutions	360 x 360 dpi, 720 x 360 dpi, 540 x 720 dpi & 720 x 720 dpi	
Intelligent Interweaving (i <sup>2</sup> )	Available for 360 x 360 dpi, 540 x 720 dpi & 720 x 720 dpi output resolutions Weave settings : Sign/Quality, Picture/Speed	
Colour / Ink Setup	CMYK – 4 x 4 (CMYK) nozzle rows – one colour per head	
Heaters	Incorporated 4-stage heater system : Pre-heater (max. 45 °C), Fixer (max. 40 °C), Post-Fixer (max. 45 °C) and Dryer (max. 50 °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 using Mild Solvent Plus Inks	Temperature: 20 – 30 °C - Δt max. 2 °C/h Relative Humidity: 40 – 65 % RH - ΔRH max 5% RH/h	
Print Engine Working Environment using Eco-Solvent Ultra Inks	Temperature: 20 – 30 °C - Δt max. 2 °C/h Relative Humidity: 30 – 65 % RH - ΔRH max 5% RH/h	
Air Purification Equipment	Use of Mild Solvent Plus Inks intrinsically requires the use of an air purification system. Blizzard is equipped with exhaust holes for easy connection of forced ventilation equipment. For connection to an existing air purification system, an optional hose set with exhaust connectors is available. To ensure a clean and safe working environment, contact the local authorities to know the local acceptance levels.	
External Dimensions in mm (WxDxH)	3074 x 791 x 1289 mm	3677 x 791 x 1289 mm
Weight	290 kg	330 kg
Power Consumption	1200 W - 140 W in stand-by mode	
Power Supply	AC 100 – 120 V / AC 220 – 240 V 60/50 Hz (Blizzard 65: 11A/5.5A – Blizzard 90: 12A/6A)	
Regulatory Approvals	CE Mark, WEEE, RoHS, CB, CSA, FCC Class A, ICES Class A.	

Specifications are liable to changes without prior notice. All trademarks mentioned are property of their respective owners. The machines depicted on this brochure do not necessarily show a standard configuration. For some products, customised configurations are available. For further information, please contact your nearest Mutoh Authorised Reseller.

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## **Maximize your Profit with Mutoh Intelligent Interweaving (i<sup>2</sup>) Print Technology !**

Mutoh i<sup>2</sup> technology will deliver you an unprecedented level of user comfort, allowing you to effortlessly deliver the right quality at the lowest cost possible.

Per printer incorporating Mutoh i<sup>2</sup> technology, a “guided printer setup” is available, allowing you to easily select the most suitable print mode and moreover to predict how long printing will take.

## **Take three simple steps to increase efficiency and productivity in your print business...**

No more over-specified print jobs, taking longer and costing more than necessary.

No more under-specified print jobs, leading to inferior quality with the risk of repeat work or lost business.

Mutoh’s “guided printer setup” will allow you to continuously deliver fit for purpose print quality.

All you need to take into account when working with a Mutoh Blizzard printer is three different criteria linked to the purpose for which the print will be used :

1. **Viewing distance:** less than 1 m, more than 1 m, more than 3 m, in excess of 5 m.



2. **Image type:** is it a sign that requires maximum print quality, or a less demanding picture that can be printed faster?



3. **Image content:** Is there a lot or not so much detail.

**Discover the comfort of Mutoh i<sup>2</sup> technology on Blizzard at [www.mutoh.eu/interweaving](http://www.mutoh.eu/interweaving)**

## Mutoh i<sup>2</sup> for real life prints

With i<sup>2</sup>, intelligent interweaving technology, Mutoh has developed a guided printer setup for each printer.

Users can effortlessly select the most suitable print mode and predict how long printing will take.

Visit [www.mutoh.eu/interweaving](http://www.mutoh.eu/interweaving) to discover how it works....

**Discover the comfort of i<sup>2</sup>. MUTOH**  
**Select any Mutoh Printer.**

**Blizzard 65**



**Blizzard 90**



**Rockhopper 3  
Extreme 85"**



**Rockhopper 3  
Extreme 85"**



**Spitfire 65  
Extreme**



**Spitfire 90  
Extreme**



**Spitfire 100  
Extreme**



**ValueJet 1204**



**ValueJet 1304**



**ValueJet 1614**




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**Blizzard 65** **MUTOH**


**Predict the i<sup>2</sup> output result**

**1) Select the VIEWING DISTANCE**


**VIEWING DISTANCE  
LESS THAN 2 M**



**VIEWING DISTANCE  
MORE THAN 2 M**



**VIEWING DISTANCE  
MORE THAN 5 M**



**SIGN**   **PICTURE**

**DETAILS**   **NO DETAILS**

**LESS DETAILS**   **LESS DETAILS**

**SIGN**   **PICTURE**

**DETAILS**   **NO DETAILS**

**LESS DETAILS**   **LESS DETAILS**

**SIGN**   **PICTURE**

**DETAILS**   **NO DETAILS**

**LESS DETAILS**   **LESS DETAILS**


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**Blizzard 65** **MUTOH**


**Predict the i<sup>2</sup> output result**

**2) Select the IMAGE TYPE**


**VIEWING DISTANCE  
LESS THAN 2 M**



**VIEWING DISTANCE  
MORE THAN 2 M**



**VIEWING DISTANCE  
MORE THAN 5 M**



**SIGN**   **PICTURE**

**DETAILS**   **NO DETAILS**

**LESS DETAILS**   **LESS DETAILS**

**SIGN**   **PICTURE**

**DETAILS**   **NO DETAILS**

**LESS DETAILS**   **LESS DETAILS**

**SIGN**   **PICTURE**

**DETAILS**   **NO DETAILS**

**LESS DETAILS**   **LESS DETAILS**

**SIGN** = set up to print of signs, posters and billboards in outdoor conditions.

**PICTURE** = set up to print of photos and illustrations in indoor conditions.

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**Blizzard 65** **MUTOH**

**Predict the i<sup>2</sup> output result**

**3) Select the IMAGE CONTENT**

**VIEWING DISTANCE  
LESS THAN 2 M**



**VIEWING DISTANCE  
MORE THAN 2 M**



**VIEWING DISTANCE  
MORE THAN 5 M**



**SIGN**   **PICTURE**

**DETAILS**   **NO DETAILS**

**LESS DETAILS**   **LESS DETAILS**

**SIGN**   **PICTURE**

**DETAILS**   **NO DETAILS**

**LESS DETAILS**   **LESS DETAILS**

**SIGN**   **PICTURE**

**DETAILS**   **NO DETAILS**

**LESS DETAILS**   **LESS DETAILS**


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**Blizzard 65** **MUTOH**


**Predict the i<sup>2</sup> output result**

**Result: FAST 540 dpi, 2 pass, 18 m<sup>2</sup>/h**


**VIEWING DISTANCE  
LESS THAN 2 M**



**VIEWING DISTANCE  
MORE THAN 2 M**



**VIEWING DISTANCE  
MORE THAN 5 M**



**SIGN**   **PICTURE**

**DETAILS**   **NO DETAILS**

**LESS DETAILS**   **LESS DETAILS**

**SIGN**   **PICTURE**

**DETAILS**   **NO DETAILS**

**LESS DETAILS**   **LESS DETAILS**

**SIGN**   **PICTURE**

**DETAILS**   **NO DETAILS**

**LESS DETAILS**   **LESS DETAILS**

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