



64" Waterbased UV Inkjet Printer

MUTOH's HydrAton 1642 sets a new standard in digital printing with innovative waterbased UV technology. Equipped with dual AccuFine HD print heads and powered by Fujifilm's advanced AQUAFUZE™ inks, this 64" roll-to-roll printer delivers outstanding quality across a variety of substrates—including environmentally responsible, heat-sensitive materials, non-woven substrates, technical textiles, paper, PVC-free and PVC media—without the need for primers or optimizers.

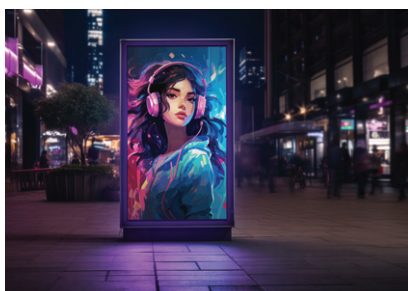
Integrating advanced print/dry technology and an ultra-thin ink film formation process, the HydrAton ensures low-odour, low-temperature drying for durable, scratch-resistant, and soft-feel prints. Engineered with sustainability and workplace safety at its core, the HydrAton 1642 is your ideal partner for producing high-quality, environmentally responsible prints.

Product Highlights

- 64" roll-to-roll printing for diverse applications
- Exceptional print quality with dual AccuFine HD print heads
- Prints on heat-sensitive and environmentally responsible materials
- No need for primers or optimizers
- Compatible with non-wovens, paper, PVC-free, PVC
- Durable, scratch-resistant odourless prints with a soft feel
- Low-odour operation for a safer workspace
- Designed for sustainable and efficient production

Application Possibilities

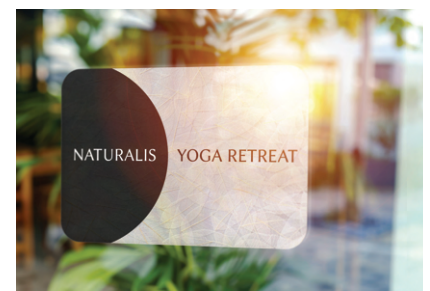
From signage and wall coverings to interior decor and promotional displays, the HydrAton 1642 provides the flexibility and reliability needed to meet diverse business needs, helping you create eye-catching designs that stand out.



Illuminated backlit signage



High end interior decor



Decorative window graphics



64" / 162 cm wide



Dual Head



AQUAFUZE™ inks



Environmentally responsible



GREENGUARD Gold



UX Ranking



DropMaster 2



FeedMaster



Media Tracker

AQUAFUZE™ waterbased UV Inks

Combining the best of UV and waterbased technologies, AQUAFUZE™ inks deliver durable, vibrant and scratch-resistant prints with low odour and environmentally responsible performance. The inks are GREENGUARD Gold certified at the highest level for building products and interior finishes.



Multi Level Pinch Rollers

The HydrAton features newly designed pinch rollers for smooth feeding and transport of various media, including thin or slippery substrates. Each roller's pressure is adjustable for optimal performance.



Media Tracker

Prints a barcode on each roll before it is removed. Upon reloading, a laser scans the barcode to accurately read the remaining media length, eliminating guesswork and preventing disruptions during printing.

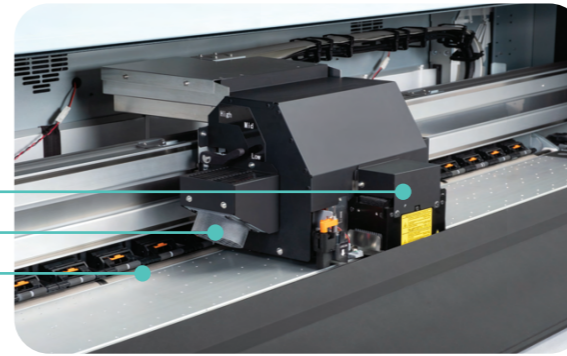
MUTOH VerteLith RIP

MUTOH's proprietary VerteLith RIP is included, delivering precise colour reproduction, smooth gradients, outstanding skin tones and an intuitive workflow for optimised print quality and efficiency.

Unique Print / Dry Technology

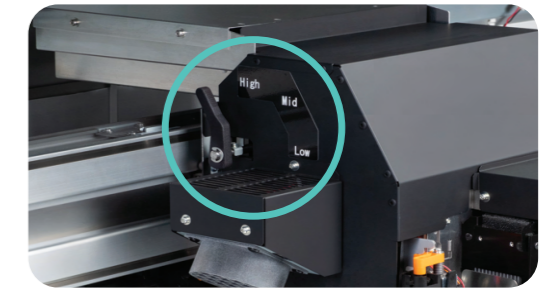
The HydrAton features an advanced ink film formation process, combining 3-way heaters, blower fans, and a UV lamp system to deliver perfectly cured, durable prints with exceptional quality and consistency.

UV Lamp
Blower Fan
Heater



3 Head Heights

Three head heights are available: 1.5 mm, 2.0 mm and 2.5 mm with easy one-touch adjustment. The 2.0 mm option is key to preventing media crashes and reducing print graininess.



DropMaster 2

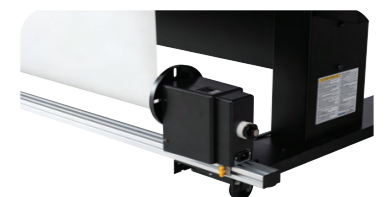
Ensures automated bi-directional alignment across varying media thicknesses, delivering precise prints without manual adjustments.

FeedMaster

Provides automated media feed adjustments, ensuring smooth, consistent media feeding for optimal accuracy and reducing the need for manual corrections.

Motorised Take-Up System

The 30 kg torque-controlled take-up system is suited for roll up of Ø 150 mm rolls of media with start/stop linked to the printing.



Key Specifications

Print Technology	Drop-on-demand micro piezo inkjet
Print Head	2 AccuFine HD print heads - staggered setup
Head Heights	Low: 1.5 mm / Middle: 2.0 mm / High: 2.5 mm
Nozzle Configuration	400 nozzles x 8 lines (each head)
Ink Setup	C, M, Y, K
Resolutions	Up to 1200 x 2400 dpi
Drop Mass Range (pl)	3.4 to 10.6 pl
RIP	MUTOH genuine Vertelith RIP included

Media Specifications

Maximum Media Width	1625 mm – 64"
Maximum Print Width	1615 mm – 63.58"
Maximum Media Thickness	≤ 1.3 mm
Print Distance Accuracy	±0.25 mm or ±0.1% of the print distance (whichever is greater)
	Environmental Conditions: Temperature 22°C-30°C – Humidity: 40%-60% RH
Media measurements	Standard non motorized roll off system : Ø 200 mm / 2" and 3" / 30 kg
Motorized Take Up Systems	30 kg – start/stop linked to printing – roll up Ø 150 mm

Ink Specifications

Ink Type	AQUAFUZE™ waterbased UV inks*
Ink Colours/Volume	C, M, Y, K : Pack – 1000 ml
Key Characteristics	<ul style="list-style-type: none"> • Low odour • Does not contain CMR substances • GHS hazard-free • Scratch-resistant with a soft feel • Thin, durable ink film • Low temperature drying for diverse substrates
Certification	GREENGUARD Gold certified – category Wallpaper, AgBB 2024, French VOC- and CMR-regulation: Class A+, Belgian VOC regulation

*AQUAFUZE is a registered trademark of Fujifilm Group

Power Consumption / Environmental Conditions / Dimensions

During Printing	1.400 W or less
Sleep Mode	41 W or less
Power Supply	Voltage: AC 100V~120V ± 10 % / AC 200V~240V ± 10 % Frequency: 50/60Hz ± 1Hz
Environmental conditions – printer operation	Temperature: 20°C~32°C Humidity: 40%~60% RH – no condensing
Environmental conditions – accuracy guaranteed	Temperature: 22°C~30°C Humidity: 40%~60% RH – no condensing
External Dimensions	(W) 2770 x (D) 895 x (H) 1611 mm (with ink pack adapters mounted)
Weight	186 kg (Printer body: 146 kg, stand: 32 kg, winder: 8 kg)



Performance

Print Mode	Productivity (m ² /h)
Draft	17.2
High Speed	15.3
Production	11.5
Quality	9.4
High Quality	5.8

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