

MUTOH

Creation, we make it happen ...

Professional Wide-Format UV Inkjet Printer

zephyr

UV Printer



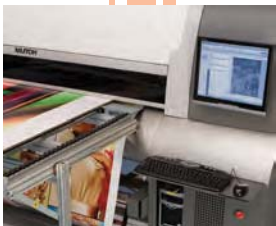
- Indoor and outdoor signs & displays at professional quality*
- Unmatched image quality thanks to greyscale inkjet head technology*
- Optimized productivity : i² driven banding-free printing*
- Media widths up to 65" (1651 mm)*
- Versatile media compatibility thanks to Mutoh's flexible UV inks*
- Outstanding operator comfort and safe working environment*
- Minimized and simplified maintenance*



zephyr UV Printer



> Professional UV Inkjet Printer for the Graphics Industry



Engineered and developed by Mutoh Europe, the Zephyr 65 is a robust UV printer for the professional print market and graphics industry, printing up to 1625 mm (64") across media up to 1651 mm (65") in width.

The Zephyr 65 delivers excellent image quality in roll-to-roll printing on media such as tyvek, backlight film, vinyl, flex, PVC and soft sign. The Zephyr 65 will also print onto various rigid substrates (each media type to be individually tested). The prints are suited for indoor and outdoor signs and displays.

In designing the Zephyr 65, Mutoh has combined elegant looks with first class and proven system elements based on more than a decade of experience in developing and manufacturing wide-format digital inkjet printers.

The Zephyr 65 integrates numerous high tech features to deliver outstanding professional UV inkjet printing.

Features include Mutoh's award-winning Intelligent Interweaving print technology (i²), four XaarJet 760 greyscale print heads, Mutoh proprietary flexible UV inks formulated specially for the Xaar heads, a fully automated unwinder/winder unit for media rolls up to 100 kg, a front-end Windows workstation, a top quality shuttered UV lamp station, a bulk ink supply with in-line degassing unit, and a dedicated graphics user interface.

Top quality prints for close viewing are produced at 8.5 to 20 m²/h. Prints for medium viewing distances are printed at speeds between 20 and 30 m²/h and the Zephyr's top engine speed is 60 m²/h.

Zephyr users and their customers will be delighted with the quality, reliability and low cost per square meter.



>> Zephyr 65 at a glance ...



i² Intelligent Interweaving Technology

i² [pronounced i-squared] is Mutoh's unique 'Intelligent Interweaving' technology for impeccable printing every time. This unique firmware/hardware combination virtually eliminates various forms of banding (bi-directional gloss banding, colour banding, step mismatch banding), creates the brightest images from the least ink and achieves high definition sharp edges and fine detail at the fastest possible speed. *i²* printing is amazingly simple to use and produces fit-for-purpose prints in the minimum time.

Flexible UV Inks

Mutoh proprietary flexible UV CMYK inks are tuned for roll-to-roll printing and also allow printing onto various rigid substrates. Ink is delivered in safe and easy-to-use 1-litre bottles. The Zephyr 65 incorporates a bulk ink system of two litres per colour, easily accessible for refilling whilst printing.



Automatic Ink Supply System

To achieve reliable, high speed, high quality output, it is essential to condition the UV ink. Mutoh's Zephyr 65 features an integrated active ink degassing system to eliminate air bubbles before they can interrupt ink supply to the nozzles. The ink conditioning system precisely maintains the temperature that is crucial for UV curable ink printing systems. Ink low levels in the supply tanks are indicated to ensure uninterrupted production.



Unwinder / Winder System

A heavy-duty motorized unwinder/winder system with dancer bars for media rolls up to 100 kg is standard on Mutoh's Zephyr printer. The printer can handle roll media with a diameter up to 300 mm and is compatible with 2" & 3" media cores.

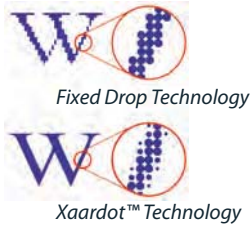




8 pl Greyscale Heads

The Zephyr UV printer incorporates four XaarJet 760 print heads, primarily developed for printers with mobile heads — the Zephyr 65 shuttles the heads across the media rather than moving the media across static heads. Each greyscale drop-on-demand variable drop piezo print head has 764 nozzles to deliver the quality and high productivity demanded by the industrial print market.

Small drops (8 pl) deliver pin sharp text and line art, whilst larger drop combinations of 16, 24, 32 and 40 pl ensure excellent image saturation. XaarJet 760 print heads eliminate the need for additional light colours (Lc, Lm), by offering six levels of greyscale, equivalent to five densities of CMYK.



Fast UV Curing



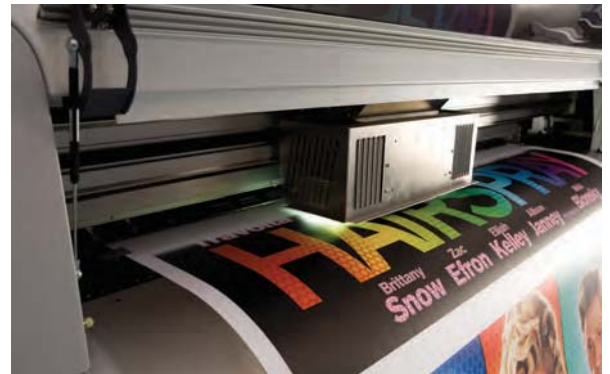
The built-in dual-lamp UV-curing system ensures excellent outputs during bi-directional and high speed printing. Two lamps, one at each side of the print head shuttle, are pre-mounted in a cassette for effortless replacement by the Zephyr operator.

Twin Extrusion Design

Impeccable printing is all about precise placing of minuscule ink droplets while accurately moving the media. The twin extrusion design enables the Zephyr to do exactly that. Two extrusions work in perfect symmetry, one providing accurate head shuttle movement, the other assisting media transport and pressure control.

Automatic Media Thickness Measurement

Media thickness is measured automatically during the loading sequence. This allows the Zephyr to optimally adjust all firing parameters and ensure perfect dot placement.



Rigid Board Printing

For printing on rigid media up to a thickness of 20 mm, media transport tables can be placed at the back and in front of the machine. Automatic detection of media edge & media thickness supports the operator in managing rigid substrate applications. Switching between rigid and roll printing takes only a few moments.





Applications

The Zephyr 65 — a robust UV printer for the professional print market and graphics industry (digital printers, sign makers & graphical screen printers). Roll-to-roll printing on tyvek, backlight film, vinyl, flex, PVC, soft sign, etc. Rigid printing onto various rigid substrates (each media type to be individually tested). Ideal for wide-format printing applications for both indoor and outdoor sign and display. The Zephyr equally suits reprographers, exhibition builders, commercial offset printers & packaging printers (prototyping).

Performance

- | | | |
|-------------------|--------------------------|-------------------------|
| • Supreme Quality | Short viewing distance: | 8.5 m ² /h |
| • HD-Production | Short viewing distance: | 15 m ² /h |
| • HD-Production | Medium viewing distance: | 20 m ² /h |
| • LD-Production | Medium viewing distance: | 30 m ² /h |
| • Billboard | Large viewing distance: | 40-60 m ² /h |

HD = High Definition

LD = Low Definition

Workstation / Network

The front end workstation (17" TFT Screen – Microsoft® Windows XP Embedded operation system) incorporates a Mutoh proprietary graphics multi-language user interface. This allows easy operation of the machine, job queue management, intuitive guided maintenance, job preview & progress monitoring, and much more. USB & external HDD connections are possible.

RIP Included

Delivered with a pre-configured Linux workstation (3 years exchange warranty), Mutoh's Grip+ RIP solution enables you to print professionally. Grip+ is Mutoh's house solution for a full large format workflow. Among the features you will get spot colour matching functionality, step & repeat, automatic nesting, tiling and layout tools.

Safe Working Environment

With a safe working environment in mind, Mutoh designed a "closed" UV printer to protect the operator from possible negative influences of ink particles released while printing ("ink mist") as can happen with the open systems offered by most other manufacturers. Mutoh also incorporated features for safe extraction of ozone. A connector at the back has been foreseen to accommodate ink mist extraction, hot air extraction and ozone filtration.

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Printer Specifications	Zephyr 65
Technology	Greyscale drop-on-demand micro piezo inkjet technology 4 x XaarJet 760 print heads Variable drop – 764 active nozzles/head
Maximum Media Width	1651 mm (65")
Maximum Print Width	1625 mm (64")
Media Thickness	Range: 0.08 – 20 mm
Media Diameter / Core	Maximum: 300 mm / 2" or 3"
Head Height	Variable – user controlled
Resolutions	720 x 720 dpi, 360 x 720 dpi, 360 x 360 dpi
Colour / Ink Capacity	2 x CMYK flexible UV ink / 1 litre bottles
UV lamps	Dual shuttered lamp system – user replaceable
Display	17" TFT Screen Microsoft® Windows XP Embedded operation system User friendly Graphics User Interface
Interface	Gbit Ethernet
Graphics Command Language	RTL-PASS
Print Engine Working Environment	Temperature: 18 – 28°C (Δt max 2 °C/h) Humidity: 40 – 65 % (no condensation - ΔRH max 5 % RH/h)
External Dimensions in mm (W x D x H)	3549 x 912 x 1829 mm
Weight	700 kg
Power Requirements	230/400Vac 3F+N+PE 3x16A

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