

# UJF-3042 MkII e

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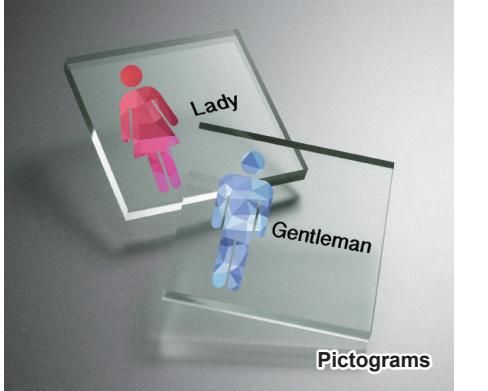
# UJF-3042 MkII EX e

For  
INDUSTRIAL  
PRODUCTS

Creating Unlimited Originality



**Mimaki**  
Green Technology



Enables printing on cylindrical objects!

Optional items

## Kebab series

### NEW! Kebab HS

Supports tapered objects!



0~7.5°

### Kebab MkII



### Kebab MkII L



### Specifications

Item	Kebab MkII	Kebab MkII L	Kebab HS
Rotary degree of printing material	±360 degrees or more (no limitation)		
Rotation system	Rollers	Shaft rotation (the shaft fixes the material)	
Applicable objects	Cylindrical objects (uneven surface may affect rotation)	Cylindrical objects / Tapered media (maximum gradient angle 7.5°)	
Printable size	Length: 30-300 mm (1.1-11.8 in) Diameter: 10-110 mm (0.3-4.3 in)	Length: 30-600 mm (1.1-23.6 in) Diameter: 10-110 mm (0.3-4.3 in)	Length: 30-280 mm (1.2-11.0 in) Diameter: 50-100 mm (2.0-3.9 in)
Printable area	Entire circumference of an object	300 mm (11.8 in) or less	Entire circumference of an object
Feeding direction (X)	300 mm (11.8 in) or less	600 mm (23.6 in) or less	
Print head moving direction (Y)	674 × 301 × 50 mm 14.4 × 11.8 × 1.9 in	376 × 541 × 150 mm 14.8 × 21.3 × 5.9 in	
External dimensions (W × D × H)	366 × 301 × 50 mm 14.4 × 11.8 × 1.9 in	674 × 301 × 50 mm 26.5 × 11.8 × 1.9 in	
Weight	Approx. 3 kg / 6.6 lb	Approx. 6 kg / 13.2 lb	Approx. 13 kg / 28.7 lb

\*1 Maximum gradient angle is limited when the large diameter of the material is 86 mm or more.

\*2 In case of using the attached chuck

## Combination of upgraded usability and functionality

### Raster Link 7

- Improves the reproducibility of special effects (such as transparency) of PDF data
- Increases RIP processing speed of PDF data by 25% on average
- Prints out the variable data by Variable print function
- JigLink function enables jig management by bar code

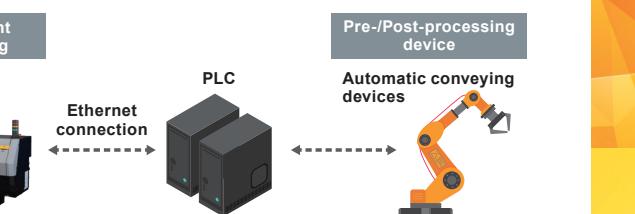
#### Variable printing function



## Automation of printing processes

- Adaptable to "Mimaki Device Language (MDL)" to realize automation of printing processes

Using MDL commands allows you to automate printer control, job management, and workpiece conveying device operation from an external device



\*When using MDL commands, refer to the separate MDL commands manual included in the SDK.

\*Please note that machine failures due to MDL commands may not be covered by our warranty.

#### Specifications

Item	UJF-3042MkII e UJF-3042MkII EX e	UJF-6042MkII e
Print head	On-demand piezo head	
Printing resolution	1200 × 1200 dpi maximum	
Maximum printable area	width: 300mm depth: 420mm (A3)	width: 610mm depth: 420mm (A2)
Ink	Type/color <sup>(1)</sup> LH-100 (C, M, Y, K, W, Cl) LUS-120 (C, M, Y, K, W, Cl) LUS-150 (C, M, Y, W) PR-200 (primer)	LH-100 (C, M, Y, K, Lc, Lm, W, Cl) LUS-120 (C, M, Y, K, Lc, Lm, W, Cl) LUS-150 (C, M, Y, K, W) PR-200 (primer)
Capacity	250 ml/1L (supplied in bottles)	
Media	Thickness 1.2 hours 6 hours 1 hours 0.5 hours	153mm (6 in) or less
Interface	USB2.0/Ethernet	
Certifications	VCCI-Class A, FCC-Class A, IEC62368-1, ETL CE Mark (EMC Directive, Low Voltage Directive, Machinery Directive) CB Report, RoHS, REACH, ENERGY STAR, EAC, RCM	
Power supply	Single phase AC100-240V, ±10%, 50/60Hz ±1Hz	
Power consumption	1000W or less	
Operation environment	Temperature Humidity Guaranteed accuracy temperature Temperature gradient Dust level	20°C to 30°C (68°F to 86°F) 35 to 65% RH (No condensation) 20°C to 25°C (68°F to 77°F) ±10°C / h or less (±50°F / h or less) Equivalent to a general office floor level
RIP Software	RasterLink7 (provided as standard software)	
External dimensions (W × D × H)	1,355 × 1,290 × 856 mm 53 × 51 × 34 in	1,665 × 1,290 × 856 mm 66 × 51 × 34 in
Weight	135 kg / 298 lb	150 kg / 331 lb

\*(1): The available type/color of ink of UJF-3042MkII Ex e : Same with UJF-6042MkII e.

\*(2): Heights of ink bottles are not included.

#### Options

Item	Item code	Remark
IONIZER UNIT 30	OPT-J0414	Static eliminator for UJF-3042MkII e / UJF-3042MkII EX e
IONIZER UNIT 60	OPT-J0415	Static eliminator for UJF-6042MkII e

#### Inks and substrates:

- As physical properties of ink (adhesion, weather resistance etc.) are different depending on media, please be sure to have a print test in advance.
- Depending on the application, primers, other surface treatment or surface protection such as lamination may be necessary.

● Some of the samples in this catalog are artificial renderings.

● Specifications, design and dimensions stated in this catalog may be subject to change without notice (for technical improvements, etc.). The corporate names and merchandise names written on this catalog are the trademark or registered trademark of the respective corporations. ● Inkjet printers print using extremely fine dots, so colors may very slightly vary after replacement of the printing heads. Also note that if using multiple printer units, colors could vary slightly from one unit to other unit due to slight individual differences.

● The specifications described in this catalog are as of July 2024.

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# Creating Unlimited Originality



## Reliable productivity with industry-leading printing speed

The industry-leading printing speed achieves a throughput of 38 A4 prints per hour for the UJF-3042MkII e and 52 for the UJF-6042MkII e.

### UJF-3042MkII e

#### 1. Process color printing

Print mode	Resolution	Pass	Printing speed (m²/h)	Printing time per table
Draft	600×600	8	2.48	3min. 03sec.
High-speed	600×900	12	1.62	4min. 40sec.
Standard	600×1200	16	1.22	6min. 12sec.
High quality	1200×1200	16	0.89	8min. 27sec.

#### 2. Color + Spot color simultaneous printing

Print mode	Resolution	Pass	Printing speed (m²/h)	Printing time per table
Draft	600×600	8	2.08	3min. 38sec.
High-speed	600×900	12	1.44	5min. 14sec.
Standard	600×1200	16	1.12	6min. 46sec.
High quality	1200×1200	16	0.69	10min. 55sec.

#### 3. Color + White simultaneous printing in high-density mode

Print mode	Resolution	Pass	Printing speed (m²/h)	Printing time per table
Draft	600×600	8	1.88	4min. 01sec.
High-speed	600×900	12	1.33	5min. 40sec.
Standard	600×1200	16	1.03	7min. 21sec.
High quality	1200×1200	16	0.62	12min. 14sec.

#### <A4 size prints per hour>

Draft mode (600 × 600dpi 8P)  
(For process color printing)\*

\*The time taken for setting the material, the printer's operating time after printing, etc. are not included.

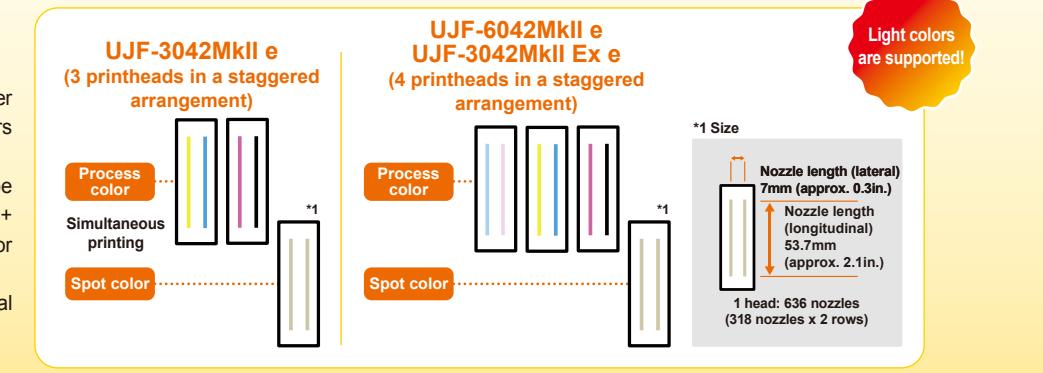
## Head layout enables two-layer simultaneous printing

The staggered printhead arrangement allows two-layer simultaneous printing with both process and spot colors to maintain high productivity.\*

The UJF-6042MkII e and UJF-3042MkII Ex e can be equipped with light color (Lc/Lm) inks, enabling CMYK + LcLm + Spot colors (W+W, W+C, W+Pr, or Pr+C) color sets.

By adding light colors, smoother gradations and natural skin tones can be expressed to produce lively prints.

\*Some ink sets may not allow simultaneous printing.  
All heads must be loaded with ink.



\*Print image

## Mimaki's image quality control technology ensures more beautiful prints

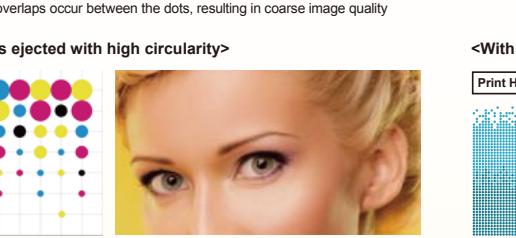
### High image quality achieved with the MFD2 (Mimaki Fine Diffusion2) technology

The image processing function RasterLink7 carries out hybrid image processing combining the commonly-used "pattern dither method" and "error diffusion processing." Before printing, the RIP software processes the image data using MFD2, which suppresses noise and color unevenness and realizes beautiful prints. (Japan Patent No. 7152323)



### Waveform control

Thanks to Mimaki's unique advanced ink droplet ejection control, droplets with high circularity are ejected to make them accurately land on the media, enabling sharp expression of characters, lines, and edges.

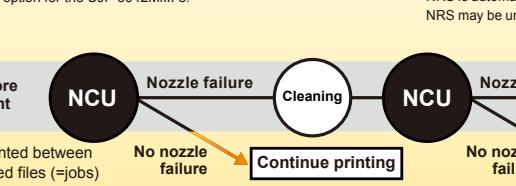


Sharp finish with less graininess

## Reliable functions for stable operation

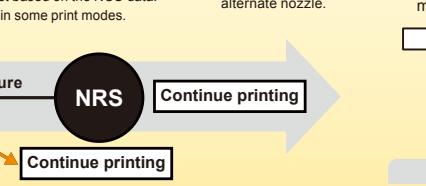
### NCU (Nozzle Check Unit)

The sensor automatically detects the nozzle condition. When the NCU detects a missing nozzle, it automatically performs cleaning to solve the problem. NCU is an option for the UJF-3042MkII e.



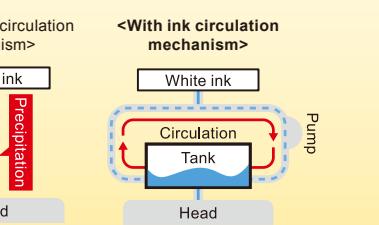
### NRS (Nozzle Recovery System)

If there is a nozzle problem that cannot be solved by cleaning, it automatically replaces the defective nozzle with an alternate one for each nozzle, which enables continuous printing without lowering printing speed. NRS is automatically set based on the NCU data. NRS may be unusable in some print modes.



### MCT (Mimaki Circulation Technology)

An ink circulation mechanism is provided in the ink tank and ink path. It circulates white ink periodically to prevent nozzle trouble due to deposited ink pigments and to stabilize printing performance.



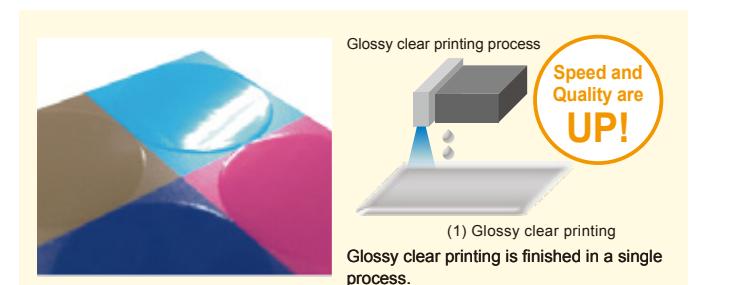
## High-performance inks expand the range of applications

### Rigid UV ink "LH-100" with excellent color rendering and reproducibility

The rigid UV ink "LH-100" provides excellent color rendering and reproducibility. With its high scratch resistance, it can be widely used for goods such as smartphone cases and key chains, and for printing original designs on parts and gadgets.



### Precision control of clear ink that offers valuable new printing effects

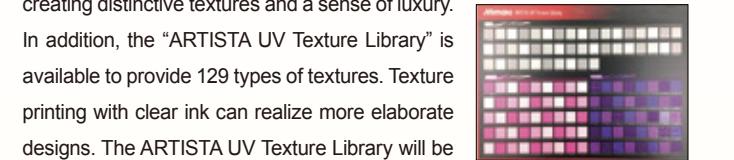


"Mimaki Clear Control (MCC)" has been newly added to produce high-quality clear prints. MCC minimizes the ink curing time by performing clear ink printing and UV-light irradiation simultaneously, and provides a gorgeous glossy clear finish that reduces dust adhesion and air bubbles.

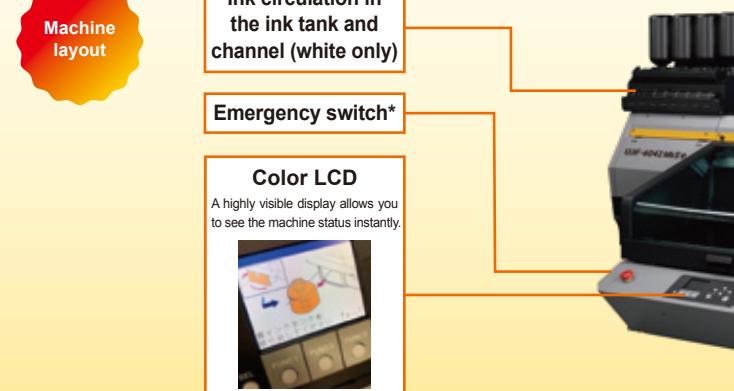
### Surface hardening Gloss, Matte, and Embossed prints and 129 types of textured prints using clear ink for enhanced design

Clear ink for a Glossy finish, a Matte finish for a subdued matte effect, or Embossed printing, which prints partial areas multiple times for a glossy, three-dimensional effect, can be used to create high value-added prints, creating distinctive textures and a sense of luxury.

In addition, the "ARTISTA UV Texture Library" is available to provide 129 types of textures. Texture printing with clear ink can realize more elaborate designs. The ARTISTA UV Texture Library will be registered on your computer when RasterLink7 is installed.



### Machine layout



### The flexible UV ink "LUS-120" enables printing on soft materials such as leather and TPU

This ink has 170% stretchability after curing. Its ink film is flexible and bendable. Excellent beauty and durability, and ideal for printing on soft materials such as leather and polyurethane and other applications that require bending.



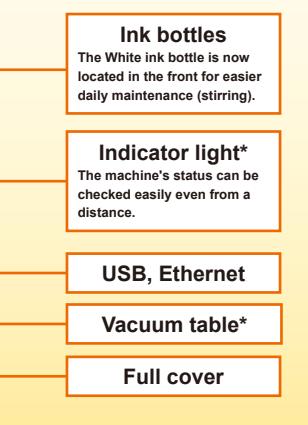
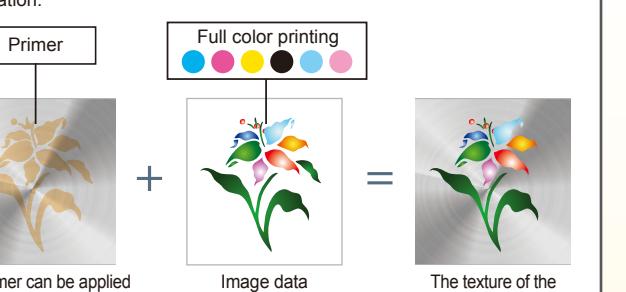
### Inkjet primer increases ink adhesion

The PR-200 inkjet primer can be used to increase ink adhesion. When color ink alone does not adhere well to the material, an inkjet primer can be used to improve adhesion. PR-200 can be used to improve adhesion to resinous materials, glass, metal, and materials with various surface finishes.



### Automatic primer application by inkjetting

The primer can be applied only to required areas by inkjetting. This feature can retain the texture of the material that would be lost in manual primer application.



\*These options are for the UJF-3042MkII e.