# Product Overview

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**4 Zone Vacuum Table**
Printable Area
W 55.9” x D 27.5” x H 5.9”

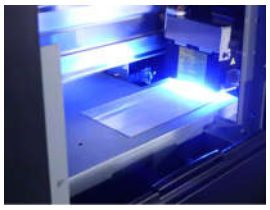
**Ionizer (optional)**
To neutralize static charges on printing media

**Signal Tower Light**
Visibility of printer status

**Dual Print Heads**

**Dual UV-LED lamps**

**Simple Nozzle Check**
Nozzle check can be performed in a dedicated area even with media on the print table



**Media Height Detection**
(Laser sensor)

**Automatic Nozzle Checking Unit**
(Drop sensor unit)

**Under Table Cabinet**
Extra space for easy storage of ink, substrates and more.

**Foot switch**
Vacuum On/off switch

**Vacuum Control**
Selection of Area & Suction Power

# Compatible UV LED Ink Type

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## UV LED inks

Hard/Rigid Ink : UH21

## Colors

6 Colors : Cyan, Magenta, Yellow, Black (CMYK) + White + Varnish

# XPJ-1462UF Value Proposition

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## High productivity & high image quality

- 2 UV-LED lamps guaranteeing optimal curing in bi-directional printing
- Staggered dual print heads (CMYK and W+V) improve print speed in layer printing
- Rigid and accurate chassis ensures high dot placement accuracy

## Adaptability to print on various media

- Vacuum table with enhanced media adaptability
- Printable size 55.9” x 27.5”
- 5.9” thickness
- The table unit mechanism allows flexible support for various objects and media sizes

# High Productivity & High Image Quality

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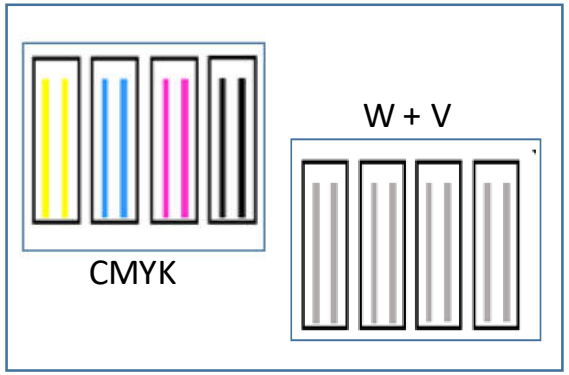
## Two UV-LED Lamps

***Optimal Ink Curing For Bi-Directional Printing***

## Super Rigid & Accurate Chassis

***High Dot Placement Accuracy With Moving Gantry***

## Staggered Dual Print Heads




***High Speed 2-Layer Printing***

***Incredible Productivity & High Image Quality In Bi-Directional Printing***

# High Productivity & Image Quality

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## Productivity

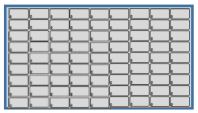
| | | |
|---|---|---|
| Print Speed (Sqft/Hr)<br>CMYK+W or V | Draft | 360 x 1,080/Bi-D **83.42sqft/hr** |
| | High Speed | 720 x 720/Bi-D **62.43sqft/hr** |
| | Production | 720 x 1,080/Bi-D **41.76sqft/hr** |
| | Quality | 720 x 1,440/Bi-D **31.43sqft/hr** |
| | Build up | 1,440 x 1,440/Bi-D **15.71sqft/hr** |

## Production Capacity

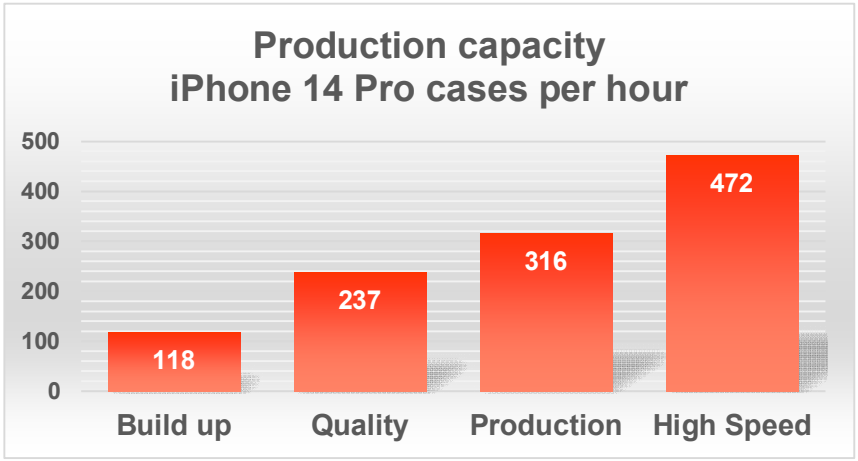
*Data based on simulations.

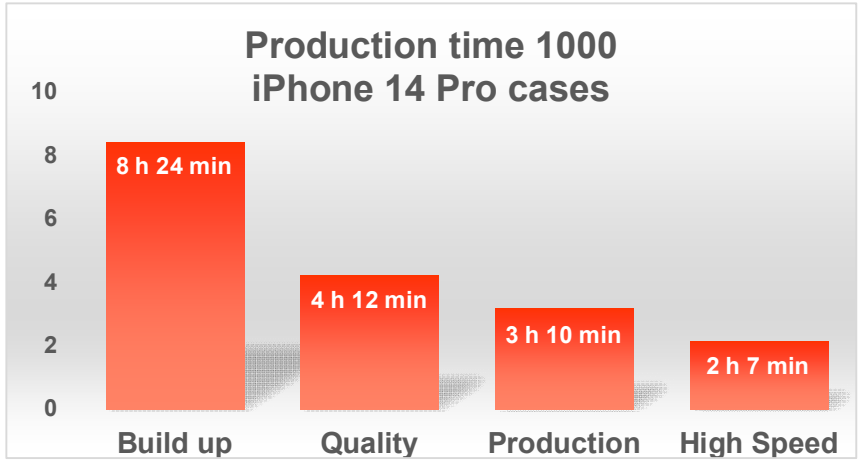
e.g. Printing of smart phone cases

W 2.8" x H 5.8"
(iPhone 14 Pro case)



81pcs. / table



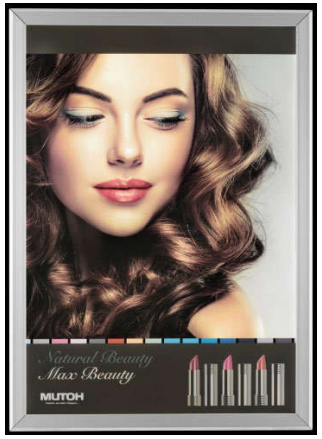



# Incredible Productivity & Image Quality With Bi-Directional Printing

## Target: Fine Art, Photography

**High image quality with less graininess and smooth gradation**

- High image quality is achieved by accurate dot placement and high-resolution print heads
- Bi-Directional printing ensures high productivity




## Target: Industrial (Switch panels, etc.)

**Text and line printing accuracy**

- High accuracy of dot placement enables high quality of small texts and fine lines even in high-speed printing


# High Productivity & Image Quality

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## High Productivity With 2 Layer Printing

### Target: Personalized Items & Awards

**Productivity for 2-layer printing (CMYK + W)**

- Staggered dual print heads: Print head 1 prints CMYK while print head 2 prints white and varnish, enabling 2-layer printing without speed loss.



### Target: Braille and 2.5D Texture

**Support multi-layer printing for production use**

- Staggered dual print heads provide high productivity for production use even in multi-layer printing for added texture and ADA compliant braille.


# Adaptability To Print On Various Media

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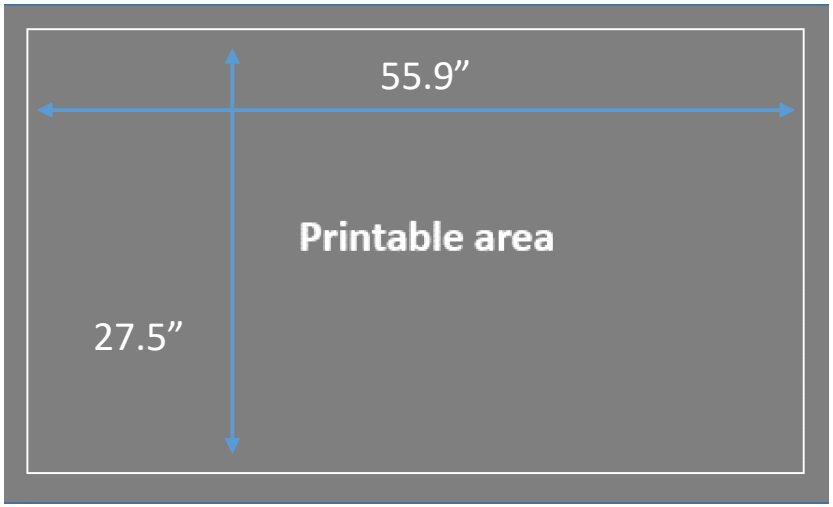
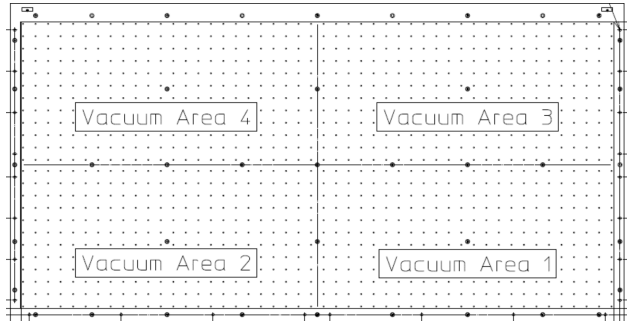
## Printable Surface Area
## W 55.9” x D 27.5” x H 5.9”




Max. Height : 5.9”
Max. Weight : 10lbs/sf

## Table Unit Features:




Vacuum Divided Into 4 Zones
Each With 4 Individual Levels Of Suction

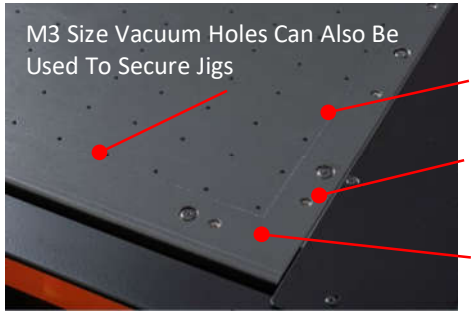



**Table Functions For Easy Media Loading**

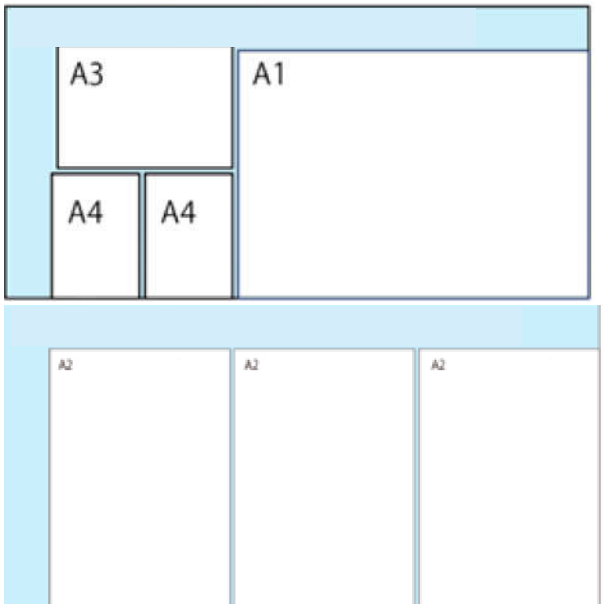
***Easily Adaptable For Various Objects & Media Sizes***

# Adaptability To Print On Various Media

MUTOH

## Actual Printable Surface Area (55.9” x 27.5”) Of 4 Zone Vacuum Table

Ideal for higher production volume/shorter delivery times, and with flexible and efficient layout for different sizes

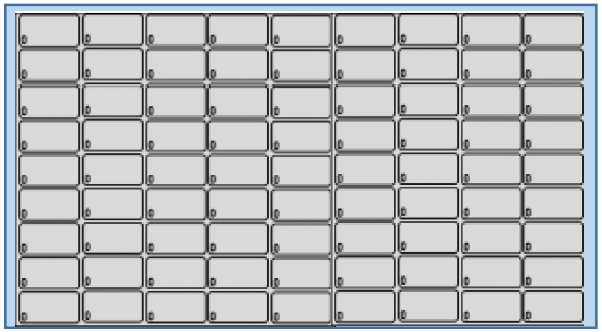


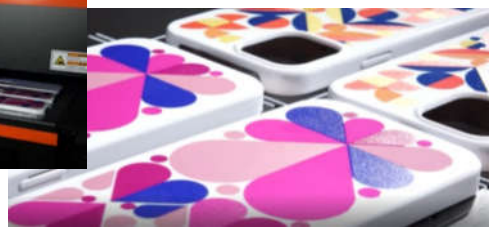


Directional Signage

Canvas Art


ADA Braille Signage





Cell Phone Cases


Backlit Film

# Adaptability To Print On Various Media

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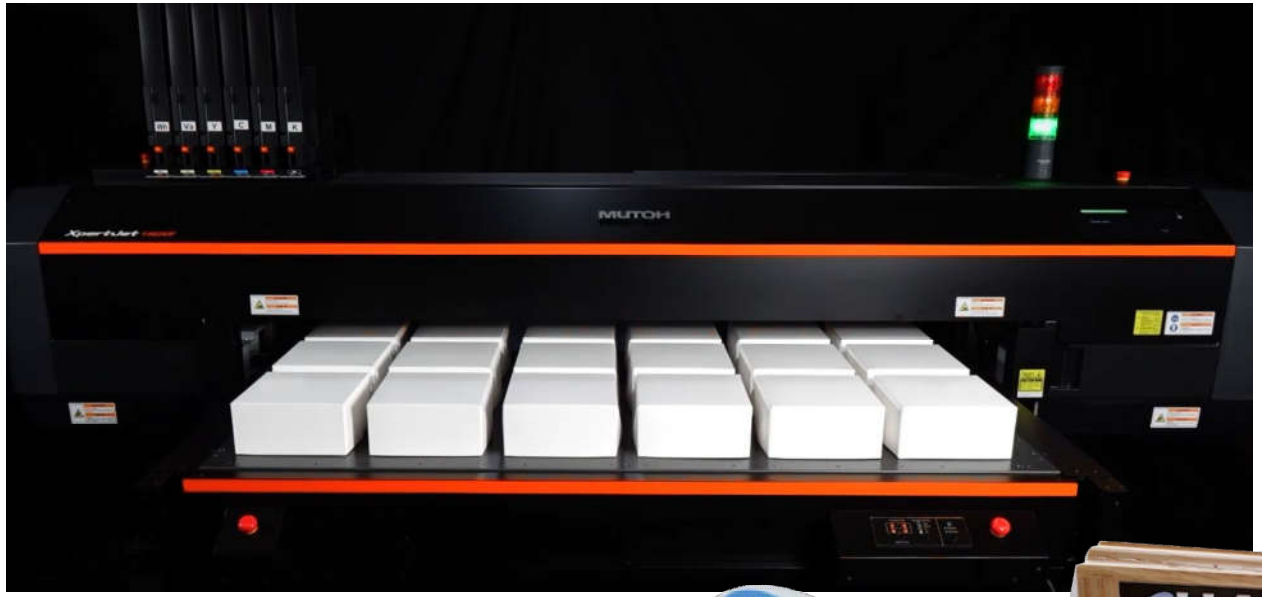
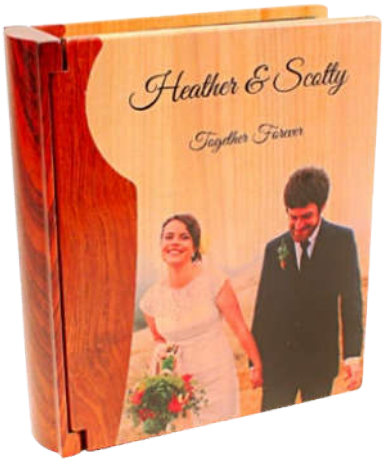
Print directly on a variety of materials, including objects up to 5.9” thick.







# 4” Wide Multi-Segmented UV-LED Lamps

# Commitment To High Productivity

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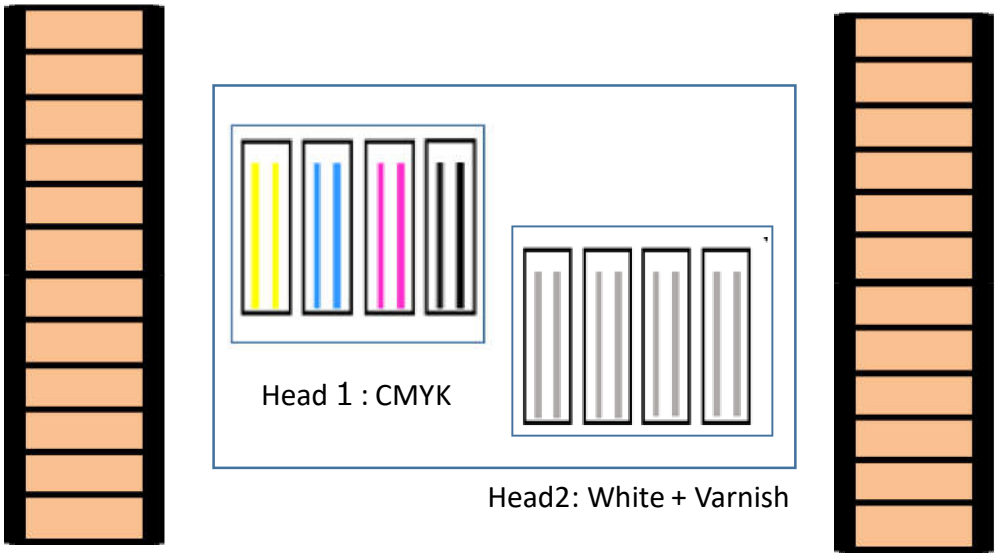
## Two UV-LED Lamps For Bi-Directional Printing

Two 4” wide UV-LED lamps located on both sides of print heads support high speed bi-directional printing.

In addition, staggered dual print heads with CMYK and W+V independently arranged to significantly improve productivity with 2-layer printing.

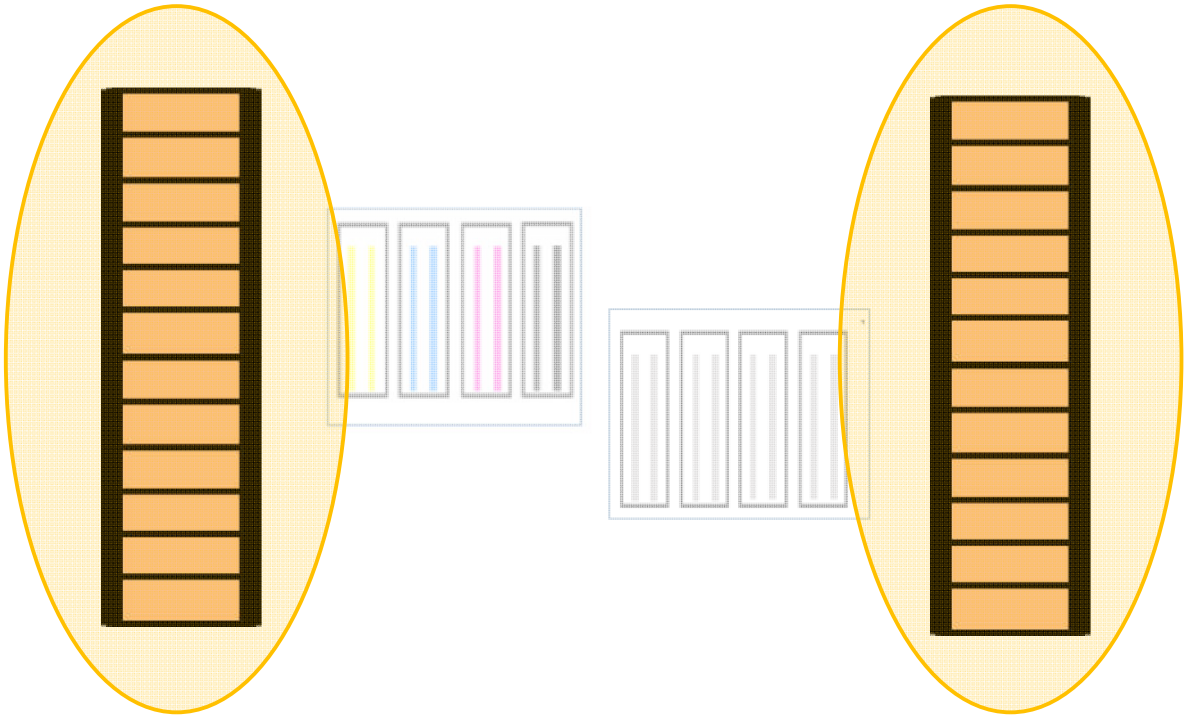



# Commitment To High Image Quality

MUTOH

## New UV-LED Lamps Achieve High Image Quality Print

Two 4" UV-LED lamps are installed to ensure optimal curing under all printing conditions. In addition, UV-LED local dimming control allows the operator to control the irradiation of UV-LED lamps on a cell-by-cell basis.



LDC
UV LED LOCAL DIMMING CONTROL

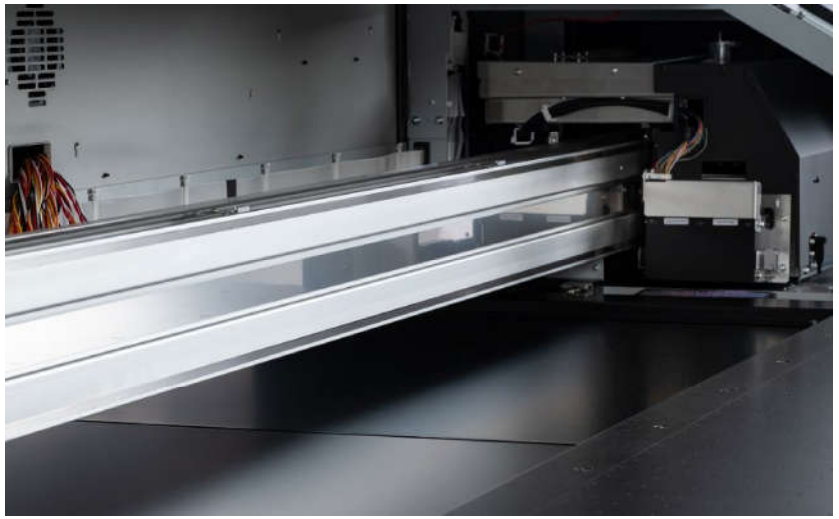
# Table Unit & Aluminum Rail Structure

# Commitment To High Image Quality

MUTOH

The chassis is designed for high precision allowing for high image quality.

The rigid vacuum table frame ensures the accuracy of the dot placement for bi-directional printing.

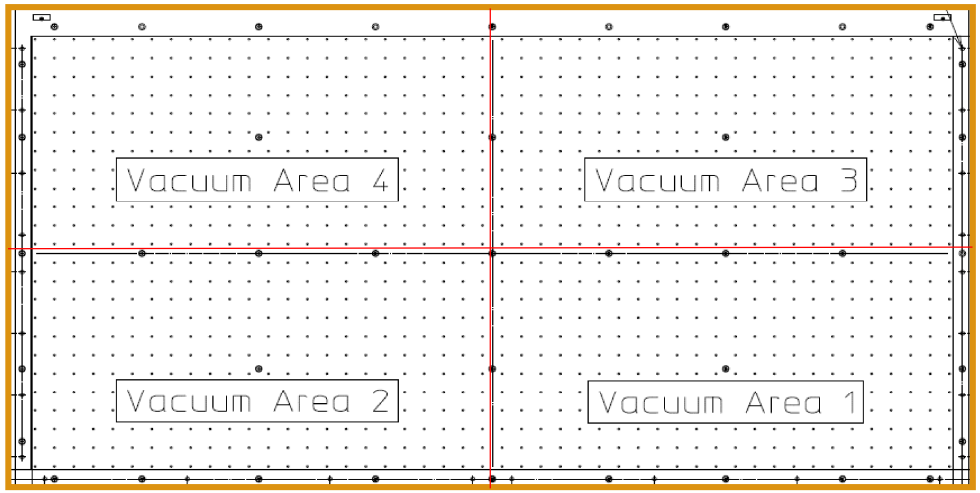


MUTOH's traditional aluminum Y-rail structure adjusted to stabilize more accurate dot placement.

# Ease Of Use

## Vacuum Zones

The vacuum table is divided into 4 zones. The selected zones suction pressure can be adjusted from the front of the printer on the dedicated control panel to four levels.

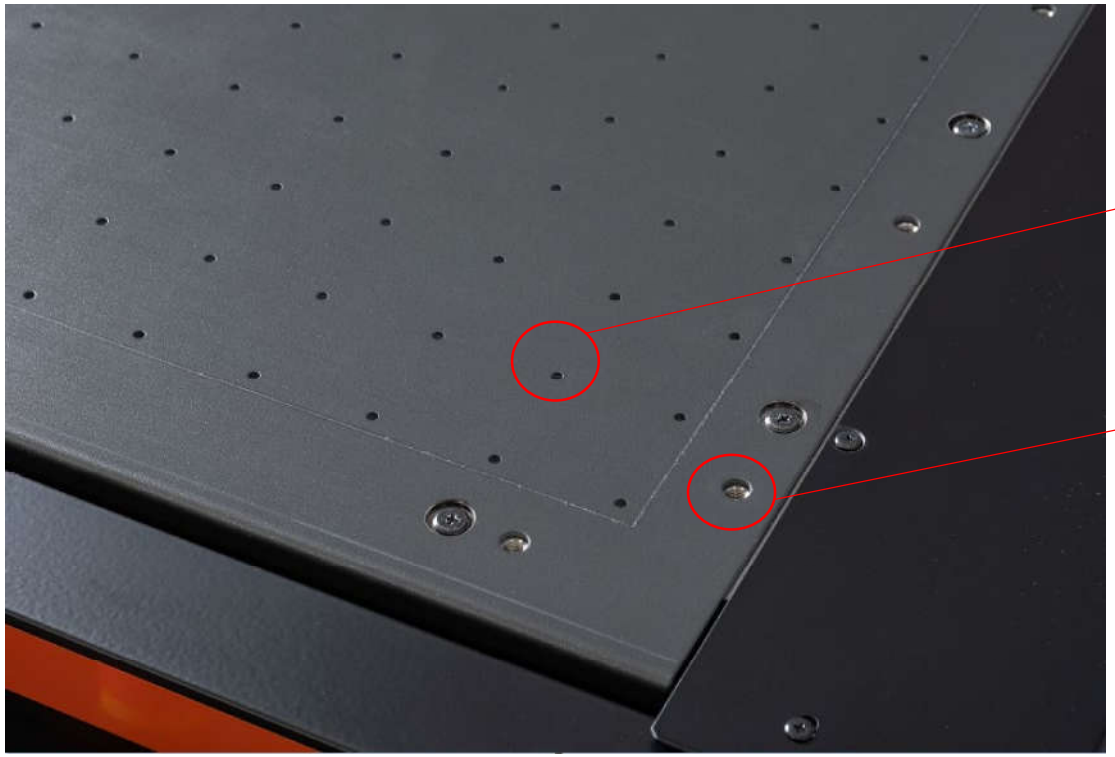




**Vacuum Zones:**
Zone 1, Zone 1 & 2, Zone 1 & 3, Zone 3 & 4, and All Zones

**Suction Levels:**
High, Middle, Low, Off

## Four Features To Support Media Location

1. Laser etched guide-lines surround the table indicating the printable surface area to support the user's media location.
2. 24 M4 taps screw holes available to secure a jig on the outside of the etched lines.
3. 1152 suction holes are fitted for M3 self tapping screws.
4. The table material is ferromagnetic to accommodate magnetic jigs.



1152 suction holes are M3 sized for self tapping screws.

24 M4 tapped holes for jig mounting on the outside of the marking line.

## Media Height Detection

The obstacle sensor (laser sensor) automatically detects media thickness, prevents collisions with the media, and protects the print heads (up to 5.9” thickness).

**How to operate:**

1. The gantry in the rear position is the home origin, with the operator in front of the machine setting the media as the initial operation.

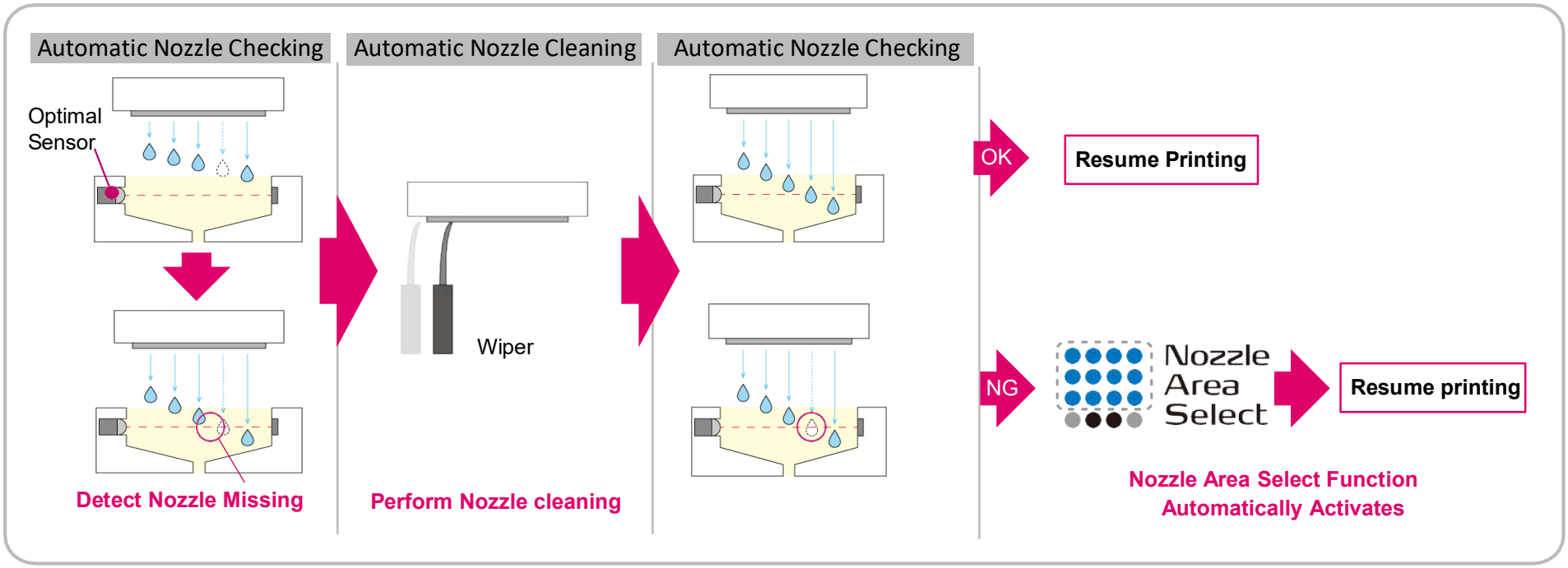
2. The obstacle sensor (laser sensor) automatically recognizes the media thickness as the gantry comes forward to the standby position to start printing.

3. CMYK + White overlay printing is performed while the gantry moves to the rear.

4. White + CMYK underlay printing is performed once the gantry moves to the rear and then prints toward the front.

## Automatic Nozzle Checking Unit

XPJ-1462UF comes equipped with a module that can optically monitor the ink jetting from the print head, missing nozzles can be detected automatically, and nozzle cleaning can be performed. It reduces the operator's workload. If nozzles are not recovered, the Nozzle Area Select function automatically activates to continue printing.



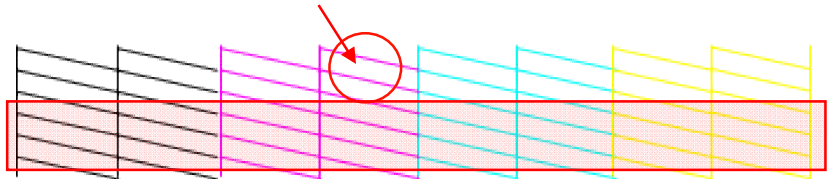

*This function does not guarantee for the perfect accuracy of detection.
We recommend cleaning print heads to regain nozzles after the print job.

## Nozzle Area Select

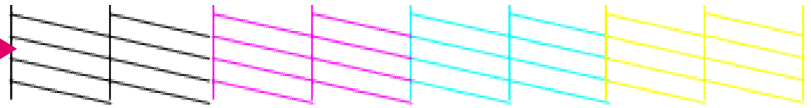
Printing temporarily using blocks of active nozzles when clogged nozzles fail to recover. It enables continuous printing with minimal downtime. This function ensures seamless operation without disruption.

Nozzle Area Select

Confirm nozzle clogging with nozzle check process



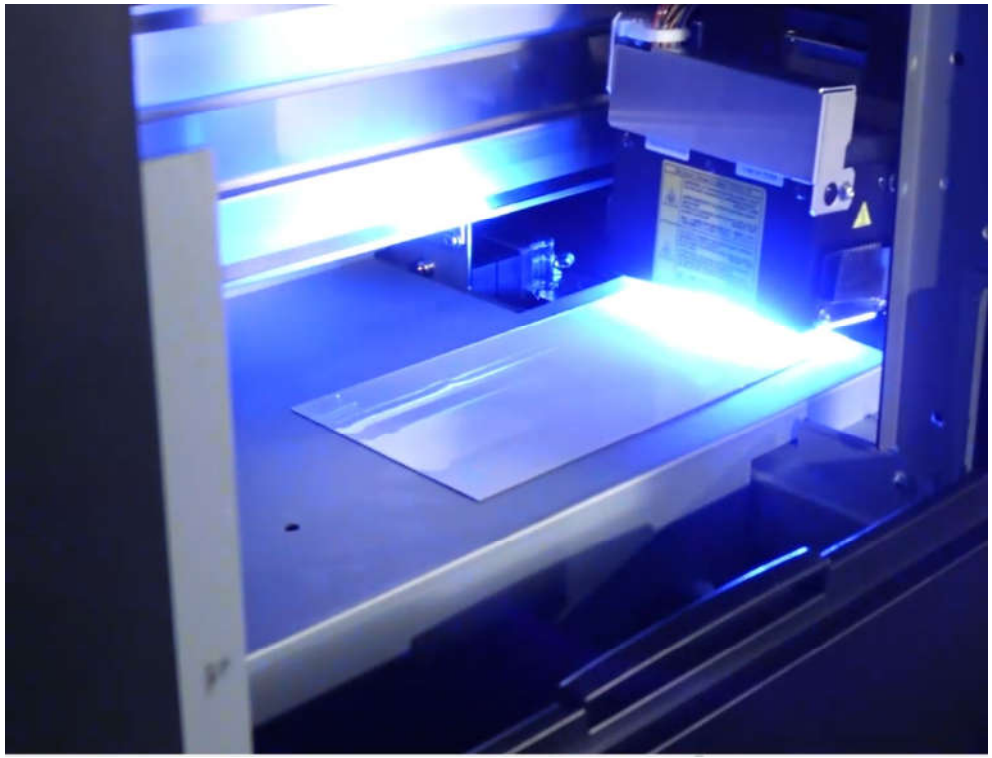
Print the nozzle check pattern, confirm the active nozzle blocks and select a mode from 6 modes



Continues printing using only the active nozzles without head replacement
(*printing efficiency drops to about 50% to 66%)

## Simple Nozzle Check

A nozzle check can be performed at any time by setting the media in the dedicated area outside the print table. Even after the print media or print jig has been set, test printing can be performed smoothly without having to redo the height detection.



## Ink Circulation

Three circulation pumps (White, Black and Yellow)  have been adopted to achieve more stable color reproduction.