

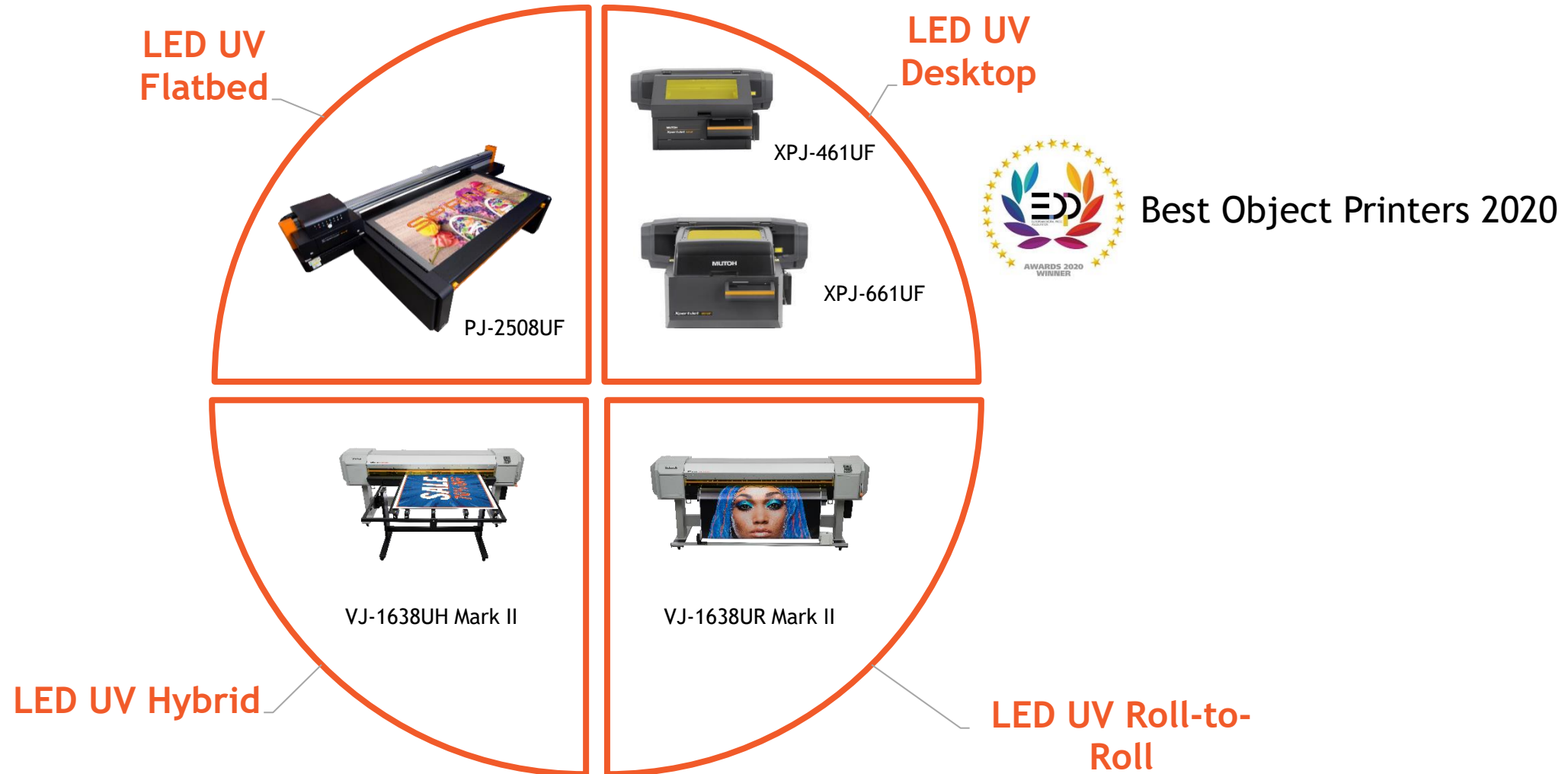
UV Printers for Productive People



Product Introduction



Mutoh UV Product Portfolio



LED UV Desktop - XpertJet Direct to Object (DTO) Printers

XpertJet 461UF (XPJ-461UF)



XpertJet 661UF (XPJ-661UF)



- A3+ size
- 1 Piezo print head - 3,7 pl to 25,8 pl - 180 nozzles x 8 rows
- Print area : 483 mm x 329 mm
- Max. thickness with standard table : 70 mm
- Max. thickness with standard table removed : 150 mm
- Max. weight : 5 kg standard table / 8 kg standard table removed
- Manual table lifting

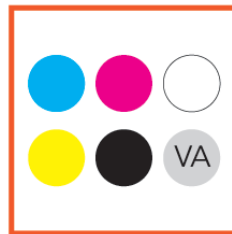
- A2+ size
- 1 Piezo print head - 3,7 pl to 25,8 pl - 180 nozzles x 8 rows
- Print area : 483 mm x 594 mm
- Max. thickness : 150 mm
- Max. weight : 6 kg
- Incorporated vacuum table
- Automatic table lifting



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Piezo Variable Drop



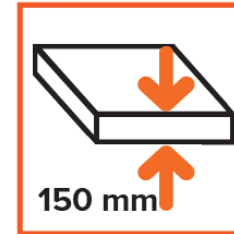
CMYK, Clear & White



A3+ Print Size



A2+ Print Size



150 mm Media Thickness



Energy saving

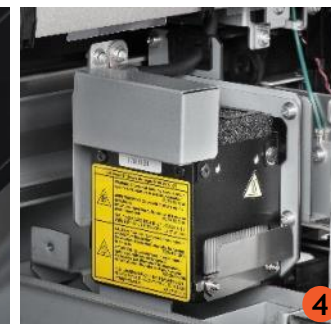
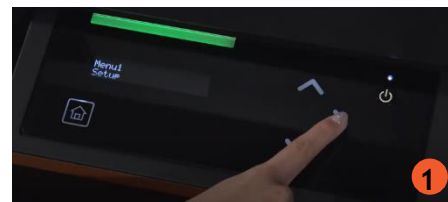
XpertJet DTO - Product Concept

New Hardware Features



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- Brand new cosmetics
- New OLED touch display ①
- Expanded Print Area (+ 10 mm in both directions)
- Expanded protective window → improved visibility during printing ②
- Engraved lines in print bed for easy origin detection / object positioning ③
- Cover opens with hydraulic damper
- New 2" wide multi-segmented UV LED lamp ④



XpertJet DTO - Product Concept



Increased User Comfort

- Increased print quality → i² UV - dedicated weaving algorithms
- Increased performance → each lamp segment can be individually controlled to create multiple varnish effects in the same table movement → UV Led Local Dimming Control
- Improved LED-UV lamp and cooling fans reduce noise and energy consumption
- “Home Coming” Print Mode allowing continued production with selected nozzles blocks
- “Stop & Go Function” - enhanced obstacle detection system
- Mutoh VerteLith RIP software standard included - advanced 6 channel support
- XPJ-461UF - optional vacuum bed - max. media thickness 7 cm / max. weight 4 kg
- XPJ-661UF - optional rotary unit



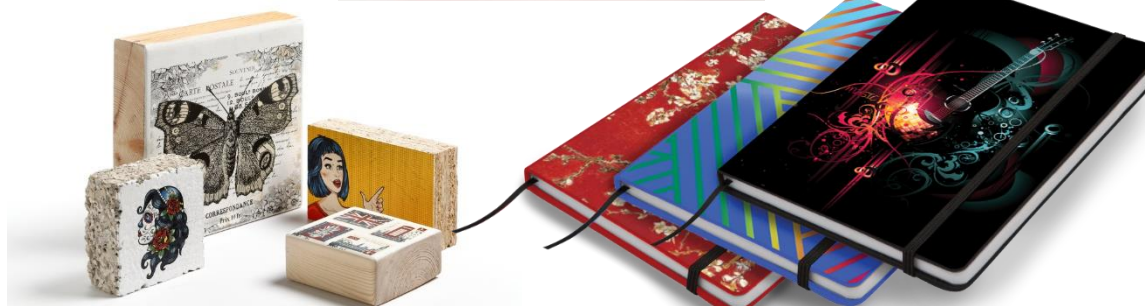
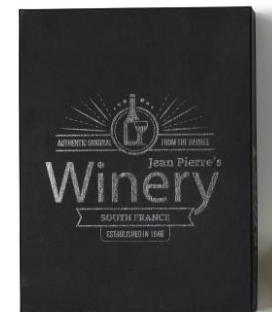
XpertJet DTO - Inks

	UH21 - Rigid Ink	US11 - Flex Ink
Colours	CMYK, Wh, Va	CMYK, Wh, Va
Volume	220 ml cassettes / 800 ml ink packs (white 500 ml)	220 ml cassettes / 800 ml ink packs (white 500 ml)
VOC	0 %	0 %
Odour	Mild odour after curing	Mild odour after curing
Drying Behaviour	Immediately dry	Immediately dry
Flex Possibilities	Limited	High
Creasing & Folding Possibilities	Impossible	Possible
Elongation Possibilities	Impossible	Stretching possible



XpertJet DTO - Target Markets

- Corporate branded items, gadgets & awards
- Small signage - including braille signs
- Customised and personalised gifts
- Packaging
- One off / small series sample production
- Toys
- ...



UV Roll-to-Roll & Hybrid - Mark II Series Printers

ValueJet 1638UR Mark II



- Roll to Roll - 1625 mm - 64"
- 2 Piezo print heads - 3,8 pl to 28 pl - 180 nozzles x 8 rows/head
- 2 long life UV LED lamps
- 182 mm (7,17") -> 1615 mm (63,58") print widths
- Take up systems : 30, 40 & 100 kg
- Mutoh VerteLith RIP software included - advanced 6 channel support

ValueJet 1638UH Mark II



- Roll + Rigid - 1625 mm - 64"
- 2 Piezo print heads - 3,8 pl to 28 pl - 180 nozzles x 8 rows/head
- 2 long life UV LED lamps
- 182 mm (7,17") -> 1615 mm (63,58") print widths
- Max. thickness rigids : 15 mm / Max. weight rigids : 15 kg
- Automated media thickness measurement
- Take-systems : 30 & 40 kg
- Mutoh VerteLith RIP software included - advanced 6 channel support



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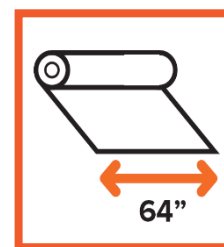
Piezo Variable Drop



CMYK, Clear & White



Energy saving



64" media width



Environmentally Responsible

Mark II Series Printers - Inks

	UH21 - Rigid Ink	US11 - Flex Ink	UA31 Ink
Colours	CMYK, Wh, Va	CMYK, Wh, Va	CMYK, Wh, Va
Volume	220 ml cassettes / 800 ml ink packs (white 500 ml)	220 ml cassettes / 800 ml ink packs (white 500 ml)	220 ml cassettes / 1000 ml ink packs (white 500 ml)
VOC	0 %	0 %	< 0.5 % (Before Curing)
Odour	Mild odour after curing	Mild odour after curing	Low Odour
Drying Behaviour	Immediately dry	Immediately dry	Immediately dry
Flex Possibilities	Limited	High	High
Creasing & Folding Possibilities	Impossible	Possible	Possible
Elongation Possibilities	Impossible	Stretching possible	Stretching possible - 2D Wrapping of simple curves supported






Mark II Series Printer - Target Markets

Production of high quality graphics :

- In-store promotion prints & deco graphics
- POP & retail graphics
- Floor & window prints
- Customized wall décor prints
- Sign blanks
- Exhibition graphics
- Fine art prints
- etc.



Mutoh UV inks for DTO / Mark II Models - Comparison

Ink Feature / Type	UA31	US11	UH21
White Density/Opacity	High	Normal	Normal
Required Curing Energy	Reduced	High	High
Media Compatibility	All-Round	Focus on flex	Focus on rigid
Lamination possibility			
Shelf Life	12 Months	Mix 12/15/18 months	12 months

LED UV Flatbed - PerformanceJet 2508UF



- 1250 x 2540 mm (4' x 8') Flatbed LED UV Printer

PerformanceJet 2508UF



PerformanceJet 2508UF

4 Ricoh® Gen5 multi-drop greyscale print heads
(Expandable to 6 heads)



Two energy-efficient water-cooled
LED UV lamps



CMYK + White + Varnish



OUTDOOR / INDOOR

Outdoor durable inks

PerformanceJet - G5 LED UV Inks - USPs

- CMYK +Wh + Va
- Hybrid inks with **focus on rigid** substrates
- Broad substrate compatibility including **glass*** without primer (CMYK)
- Outdoor life expectation **up to 3 years**
- Low odour in the working environment
- 15 months shelf life - white ink 12 months



1500 ml ink tanks

** : Suited for decorative purposes. The ink layer may be distorted or may delaminate when the prints are submerged in water.*

PerformanceJet - G5 LED UV Ink Properties

Property	Mutoh G5 LED UV
Shelf Life	CMYK : 15 months / White & Varnish : 12 months
Odour in Print Room	Very mild
Surface Tackiness	Low degree of tackiness
Media Compatibility	Broad media compatibility
Abrasion Resistance	Excellent
Chemical Resistance	Water (5), Detergent (4), Petrol (4), Diesel (4), IPA -IsoPropylAlcohol (2) Score based on transfer to cloth: 0 = worst / 5 = best
Health & Safety	Important : NVC-free ¹ - Classic symbols for UV ink 