Specialty Industrial

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New ValueJet 1638UH

Dual Head LED UV Printer for Flex & Rigid Media

> Specialty & Industrial

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EDP Award 2017

ValueJet | VJ-1638UH

Best Flatbed/Hybrid Printer up to 20 m²/h

AWARDS 2017

Winner's Certificate

The European Digital Press Association and its Technical Committee herewith certify, that the product

Mutoh
ValueJet 1638UH dual head LED UV

has won the EDP Award 2017 in the category

Flatbed/hybrid printer up to 20 sqm/h

May 10th, 2017

Klaus-Peter Nicolay
President, EDP Association

Herman Hartman,
Chairman, Technical Committee

on behalf of the Member Magazines

X-media (Austria), sign Pro (BeNeLux), svět Tisku (Czech/Slovakia), 3dp (Denmark), print&media (Finland), Signal Etiq (France), Druckmarkt (Germany), Werbewoche (Germany), cmyk mag (Greece), Print & Publishing (Hungary/Romania), italia publishers (Italy), Sign&Print (Norway), Print and Publishing (Poland), publish (Russia), AP (Spain), Sign&Print (Sweden), Pack&Print (Sweden), Publisher (Switzerland), Dijital (Turkey), Image Reports (UK/Ireland), print plus (Ukraine)

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ValueJet 1638UH

Key Features

ValueJet | VJ-1638UH

- 1625 mm (64”) wide LED UV printer
- Dual staggered drop-on-demand piezo heads
- 2 long life LED-UV lamps (14.250 h)
- Hybrid: Rigid & Roll-To-Roll printing
- Automatic media thickness detection & head height adjustment
- Colour set-up:
  - 2x4 CMYK
  - CMYK + White + Varnish

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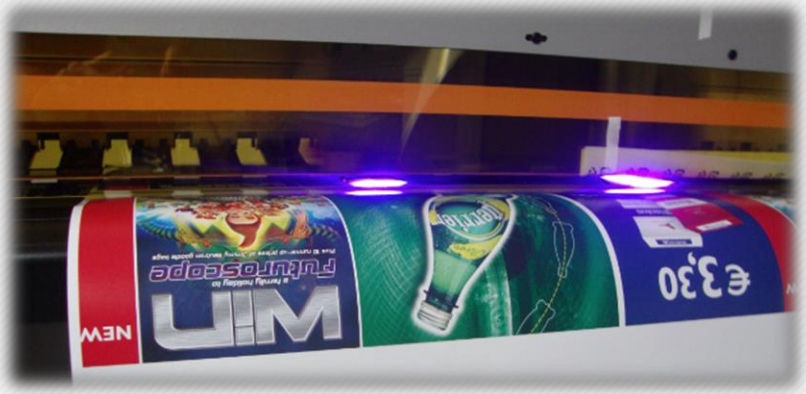
ValueJet 1638UH

ValueJet | VJ-1638UH

Key Features



- 0% VOC inks – no “outgassing” of prints – no air purifier required
- No ozone generation
- No heavy metals (Mercury, Lead)
- Output is immediately dry
- Low energy (< 700 Watt) & low temperatures : ideal for heat sensitive materials

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ValueJet 1638UH

Key Features

	VJ-1638UH (roll media)	VJ-1638UH (rigid media)
Min./Max. Media Width	182 mm (7.17”) - 1625 mm (63.97”)	182 mm (7.17”) - 1625 mm (63.97”)
Max. Print Width	1615 mm (63.58”)	1615 mm (63.58”)
Max. Media Thickness	15 mm	15 mm
Media Measurements	Ø 150 mm / 2” & 3” / 30 kg *	15 kg
	* : Standard non-motorised roll-off system	
Ink Drying System	Two long life LED UV curing lamps	Two long life LED UV curing lamps
LED UV Lamp Life	14.250 hours	14.250 hours

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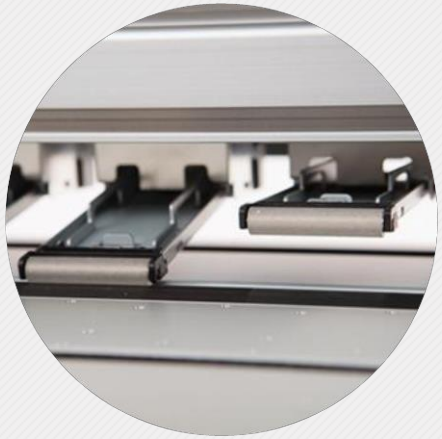
ValueJet 1638UH

Media Support Systems

ValueJet | VJ-1638UH

- Front and back side media loading lever
- Automatic media thickness measurement
- Pressure roll disable mechanism



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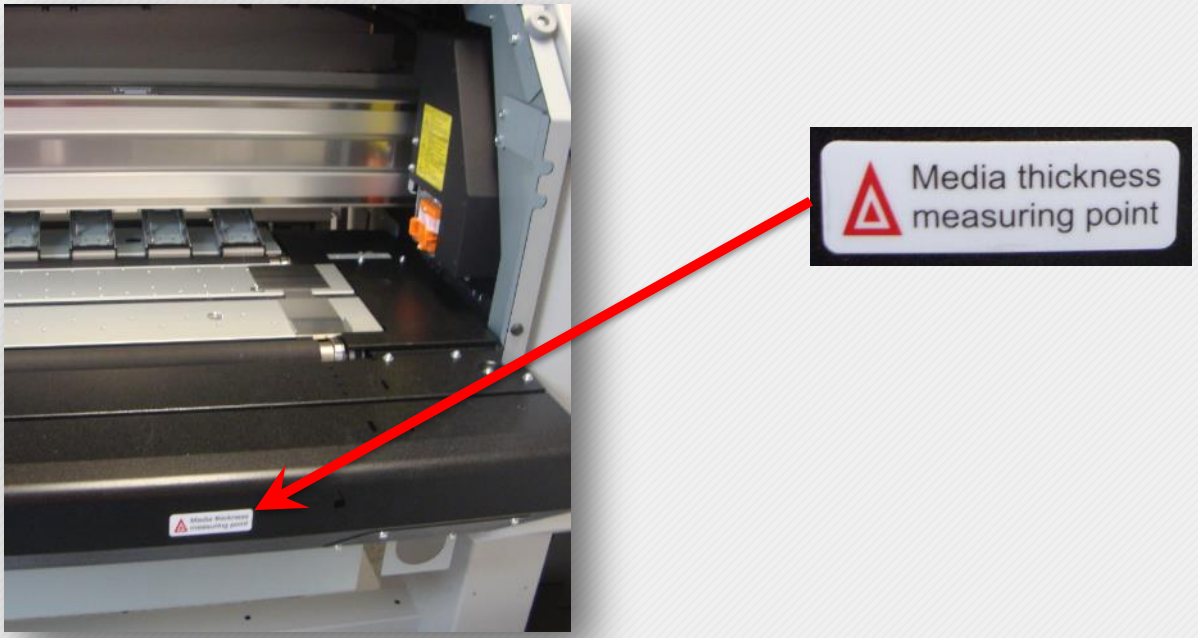
ValueJet 1638UH

Improved Media Loading

- Media home positioning now occurs at right side:

  faster than VJ-1626UH (centre loading)



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Performance

ValueJet | VJ-1638UH

	4 Colour	6 Colour			
	2 x CMYK	CMYK only	White only	2 Layer Print *	3 Layer Print **
1440 x 1440 Uni	2.86 m²/h	0.72 m²/h	2.86 m²/h	0,37 m²/h	0,20 m²/h
1440 x 1440 Bi	5.68 m²/h	1.42 m²/h	5.68 m²/h	0,73 m²/h	0,39 m²/h
720 x 1440 Uni	5.72 m²/h	2.75 m²/h	5.72 m²/h	1.39 m²/h	0.87 m²/h
720 x 1440 Bi	11.35 m²/h	5.47 m²/h	11.35 m²/h	2.75 m²/h	1.74 m²/h
720 x 1080 Bi	14.23 m²/h	6.83 m²/h	14.23 m²/h	3.45 m²/h	2.09 m²/h
720 x 720 Bi	22.71 m²/h	11.27 m²/h	22.71 m²/h	5.50 m²/h	3.47 m²/h

** : CMYK + Wh or CMYK + Va. ** : CMYK + Wh + Va.*

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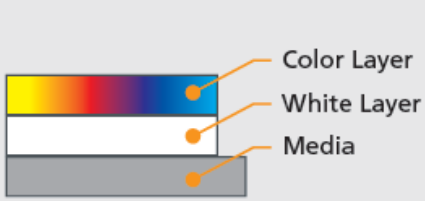
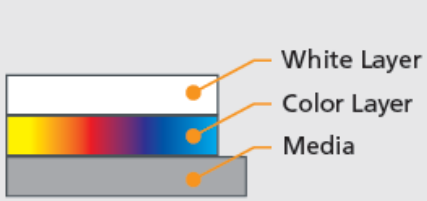
ValueJet 1638UH

Layer Print : Combinations with White & Varnish



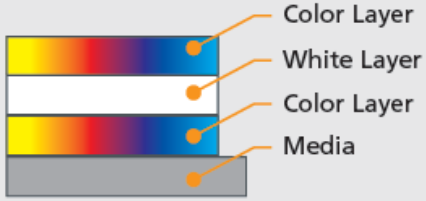
● Under Lay Printing Method

for non-transparent and transparent media



● Over Lay Printing Method

for transparent media with mirror-wise printing on one side and viewing from reverse side

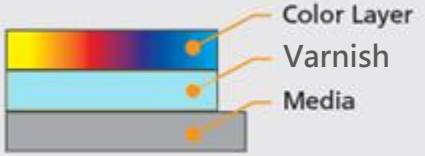


● 3 Layers Printing Method

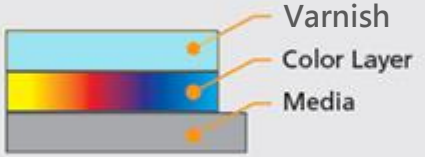
for transparent media with image and double viewing side (front and back) for non-white media

● White Only Printing Method

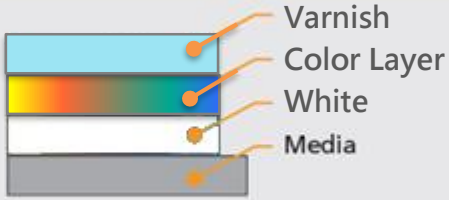
for non-transparent and transparent media



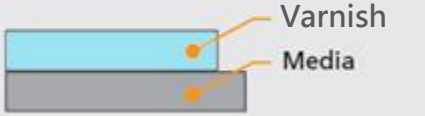
● Under Lay Printing Method



● Over Lay Printing Method



● 3 Layers Printing Method



● White Only Printing Method

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ValueJet 1638UH

Layer Print : Combinations with White & Varnish

Colour on white
for non-transparent and
transparent media

For transparent media
with mirror-wise printing
on one side and viewing
from reverse side

White only for non-
transparent

Spot Varnish

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ValueJet 1638UH

Applications

- Packaging prototyping
- Special POP output onto heat sensitive media, vulnerable to cockling with classic UV or Latex
- Prints onto PVC-free renewable resource media
- Specialty prints :
  - Prints with varnish finish
  - Transparent media - window graphics requiring white
  - Transparent rigids : PC (Polycarbonate), PET-G, PMMA
- 3D displays & POP displays onto honeycomb boards
- Canvas reproductions
- Wallpaper

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Configuration & RRP

ValueJet | VJ-1638UH

Available from stock !

Basic Configuration :

- ValueJet Hybrid 1638UH - 64" – 1625 mm – 8 channels
- + 8 x cleaning cassettes for initial wash

- *Ink, software, take-up system, media alignment system & rigid tables to be ordered separately*

RRP in €uro
39.995 €uro

More product info & datasheet at http://www.mutoh.eu/en-us/products/specialtyindustrial/valuejet1638uh.aspx

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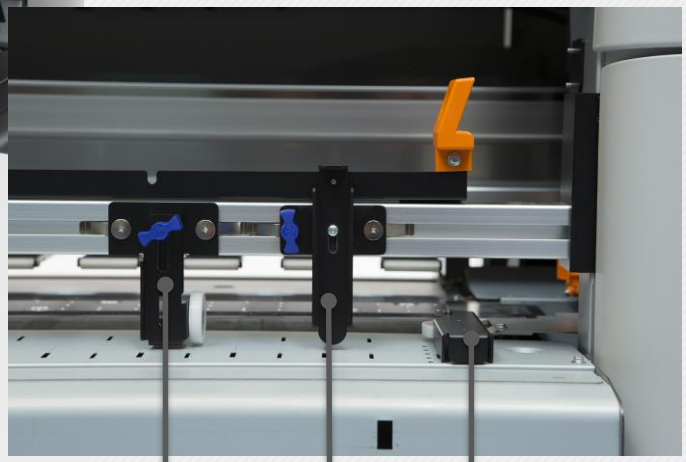
Optional Media Alignment System

ValueJet | VJ-1638UH

Load rigid media with accurate positioning and reliable repeatability



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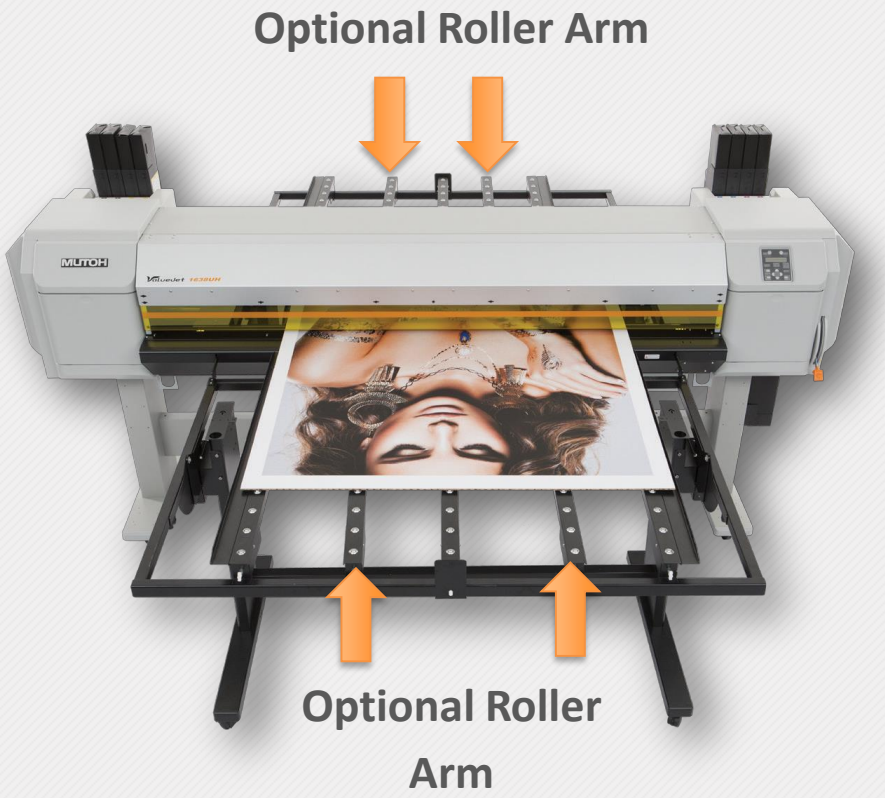
Optional Roller Arm



- Recommended to order 4 pieces/unit (2 front & 2 back)

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Optional Winders

	Winder compatibility in function of ValueJet 1638UH setup	
	Rigid & Roll	Only Roll – no tables
VJ1619-TUP30 – rolls up to 30 kg	X	X
VJ19-TUP100U – rolls up to 100 kg	Not compatible	X

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Order Information

ValueJet | VJ-1638UH

Order N°	Description	RRP in €uro
VJ-1638UH	ValueJet Hybrid 1638UH - 64"	39.995 €uro
VJ1619-TUP30	30 kg torque winder	995 €uro
V19-TUP100U	100 kg automatic take up system with tension bar	6.495 €uro
VJ1617H-TBL *	Rigid table	1.995 €uro
VJ19-MRT	Media alignment system for rigid media	849 €uro
VJ1617H-RLR **	Extra roller arm for rigid table	195 €uro

** : Two tables required. Rigid table can be installed as front or rear table. ** : A standard table contains 3 roller arms. 4 roller arms recommended.*

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*** : a standard table contains 3 roller arms.*
****: ink adapter required - TBA*

Mutoh Rigid LED UV Inks

ValueJet | LED UV Inks

Colours	Volume	Order N°	RRP
C, M, Y, K, White & Varnish	220 ml cassette	VJ-LUH1-xx220E	70 €uro
C, M, Y, K & Varnish	800 ml pack*	VJ-LUH1-xx800E	179 €uro
White	500 ml pack*	VJ-LUH1-WH500E	139 €uro

* Requires LED UV ink pack adaptor.

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Mutoh LED UV Inks

ValueJet | LED UV Inks

Media Compatibility – Mutoh Flex & Rigid LED UV inks

- ABS
- Aluminium board
- Cardboard (Fluted & corrugated)
- Ceramic (*)
- (Colour) Coated aluminium
- Glass(*)
- Heat sensitive flex film (polyolefine-based self-adhesive / Non-PVC)
- Non-wovens
- PC (PolyCarbonate)
- PE / PET / PES
- PS (Polystyrene)
- PVC
- PMMA acrylic sheet example: Plexiglass® (*)
- PP (Polypropylene) (*)
- PU (Used for flexible smart phone covers)

Media types indicated in orange can be used with rigid ink to the extent that only limited flexing and no creasing nor elongation are required

(*) These materials certainly require ink adhesion testing in function of the specific media brand, type and application. In some cases, a primer can help to improve the ink adhesion behaviour

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ValueJet 1638UH vs 1626UH

ValueJet | VJ-1638UH

Comparison

	VJ-1638UH	VJ-1626UH
UV Lamps	2	1
Print Heads	2	1
Ink Volume	220 ml / 800 ml packs (& 500 ml Wh)	220 ml / 800 ml packs (& 500 ml Wh)
Drop Family Range	4 - 5 - 10 - 20 - 27 pl	4 - 5 - 10 - 20 - 27 pl
Carriage Speed	60 / 160 / 320 / 400 cps	240 / 320 cps
Media Loading	Home position	Centre
Print Speed 6 Colours	Up to 5.5 m²/h	Up to 2.65 m²/h
Print Speed 4 Colours	2.86 – 22.71 m²/h	1.34 – 9.5 m²/h

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New Flex LED UV Inks

ValueJet | LED UV Inks

Key Properties

The new flexible LED UV inks will extend the application capabilities of Mutoh's ValueJet Hybrid printers

- Typical sign applications including high quality backlit applications, prints on clear and non white substrates and even car wrapping.

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New Flex LED UV Inks

ValueJet | LED UV Inks

Key Properties

1. Low odour
2. 0% VOC – no air filtration equipment required
3. Excellent stretch behaviour: 180% (100 mm becomes 180 mm)
4. Comfortable Application Coverage (roll & rigid substrates)
5. Defendable health & safety properties
6. Same behaviour on rigid media as LUH1 rigid inks

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Mutoh LED UV Inks

ValueJet | LED UV Inks

Media Compatibility – Mutoh Flex & Rigid LED UV inks

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- Glass(*)
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- PU (Used for flexible smart phone covers)

Media types indicated in orange can be used with rigid ink to the extent that only limited flexing and no creasing nor elongation are required

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Rigid Ink vs Flex Ink

Comparison

ValueJet | LED UV Inks

	LUH1 – Rigid Ink	US11 – Flex Ink
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	Creasing & folding without cracking
Elongation Possibilities	Impossible	Stretching possible
Compatibility	426UF, 626UF, 1626UH, 1638UH	426UF, 626UF, 1626UH, 1638UH

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New Flex LED UV Inks

ValueJet | LED UV Inks

Availability : Limited quantities - 220 ml only - June 2017

Colours	Volume	Order N°	RRP
C, M, Y, K, White & Varnish	220 ml cassette	US11-xx220E	75 €uro
C, M, Y, K & Varnish	800 ml pack*	US11-xx800E	182 €uro
White	500 ml pack*	US11-WH500E	142 €uro

* Requires LED UV ink pack adaptor.

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Rigid or Flex Inks ?

ValueJet | LED UV Inks

Mutoh recommends :

- ✓ Flex inks : recommended in all cases where flexing, creasing and elongation is required
- ✓ Rigid inks : recommended in case no flexing, creasing and elongation is required
- ✓ Mutoh is currently not planning to discontinue LUH inks for installed-base
- ✓ Washing installed-base will be possible
- ✓ In the initial phase, however, we strongly recommend reserving flex inks US11 for installing new printers
- ✓ In the initial phase, only 220 ml cassettes will be available. Availability 500 ml bags WH and 800 ml bags CMYK to be confirmed.

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