MUTOH

Application Note

VJ-1638UH - use of customized jigs for recto/verso printing on pre-cut blanks

SPECIALTY / INDUSTRIAL

MUTOH

Application Note

ValueJet 1638UH

In this document, a semi-productive workflow is described for printing pre-cut rigids by means of customized jigs on Mutoh's ValueJet 1338UH.

Watch movie at https://www.youtube.com/watch?v=S7jVHJcVB_U

Advantages/opportunities:

- Increases overall production yield compared to "per rigid" production
- Facilitates edge-to-edge printing
- Recto-verso printing possible
- Roll printer users frequently making small series of sign boards will no longer have to individually trim and stick roll prints to individual sign boards

As examples, following two jigs are presented :

JIG N°1 "A4_A5 jig" : Yield 10 x A4 + 15 x A5 mix

JIG N° 2 "A6 jig" : Yield 70 x A6

Table of Contents

1. Designing Your Jig

Example : A4_A5 jig

On VJ-1638UH, each pinch roll can be individually enabled/disabled; This way, you can distribute samples over the jig's surface while still maintaining enough pinch rolls to accurately feed forward during printing and have sufficient grip on the jig itself.

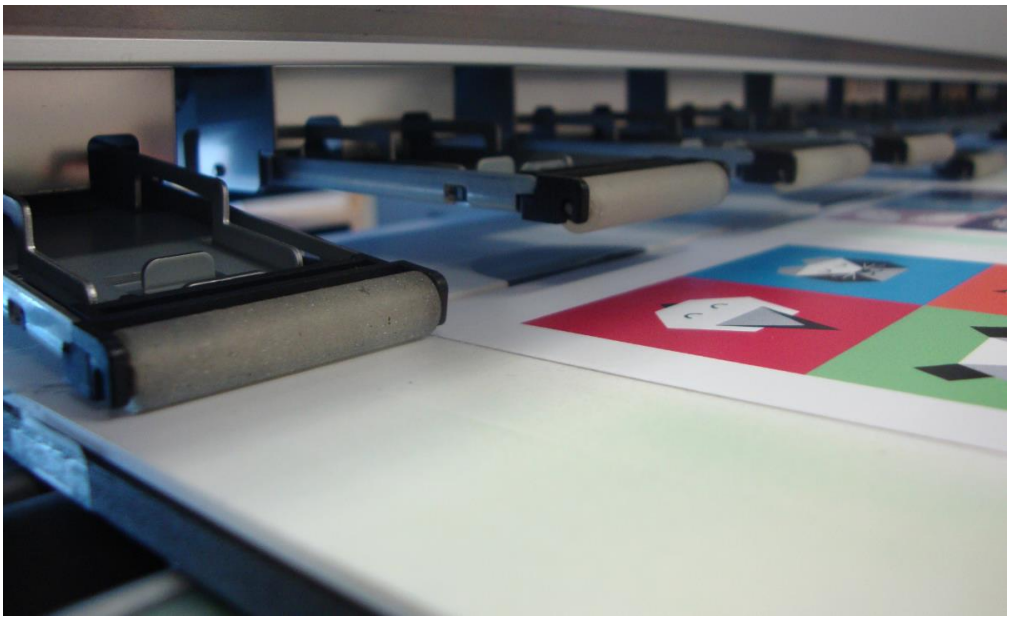
Take into account standard print margins :

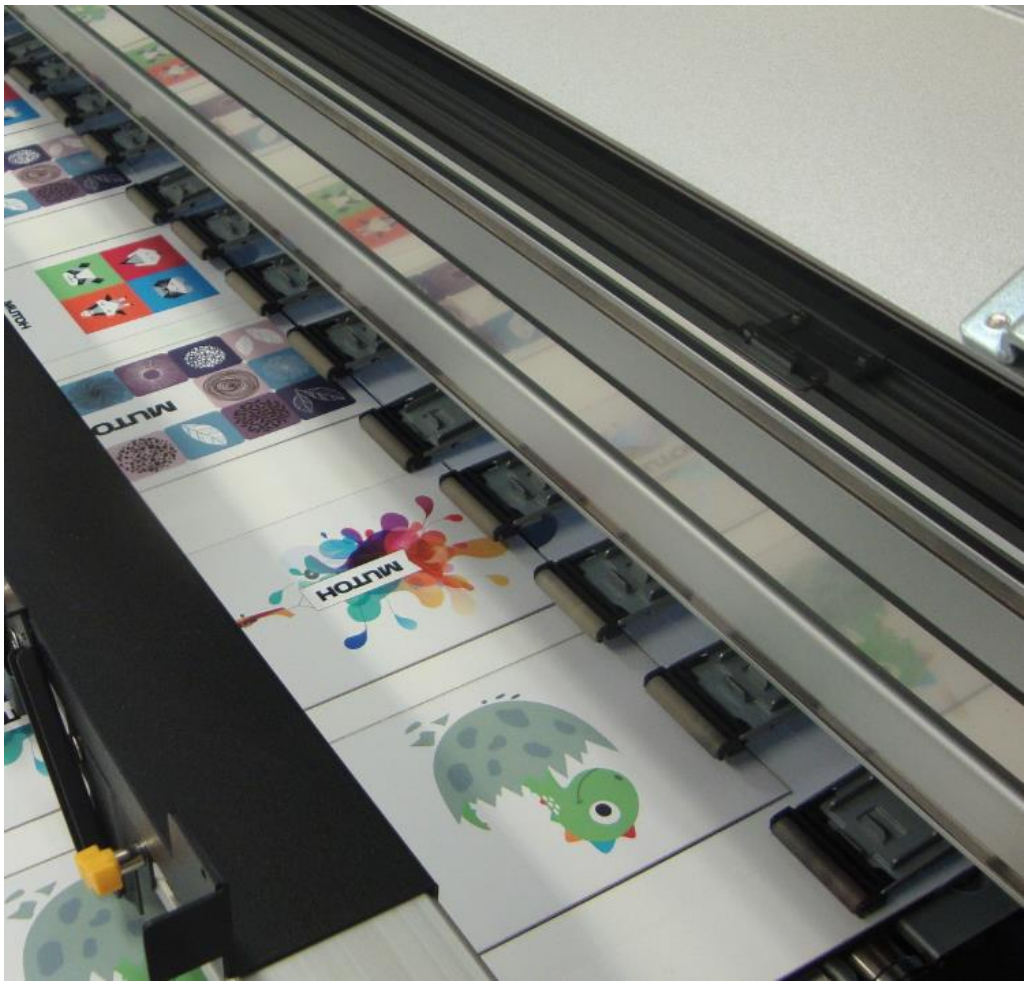
Left-right : 5 mm

Front : 5 mm (non-layered) ; 30 mm (layered)

Rear : 40 mm

The red rectangle represents the actual cutting line, the black rectangle is the image area taking into account a bleed of 5 mm.




MUTOH

2. VJ-1638UH Panel Settings

- Select type 3 (rename “type 3” to “jig” via MSA-tool)
- User type “jig” settings :
  - Media initial / media detection : “top&width”
  - Media type : “rigid”
- Setup / take up : “off” (take up led on panel is off)
- Setup / origin : “off” (origin led on panel is off)

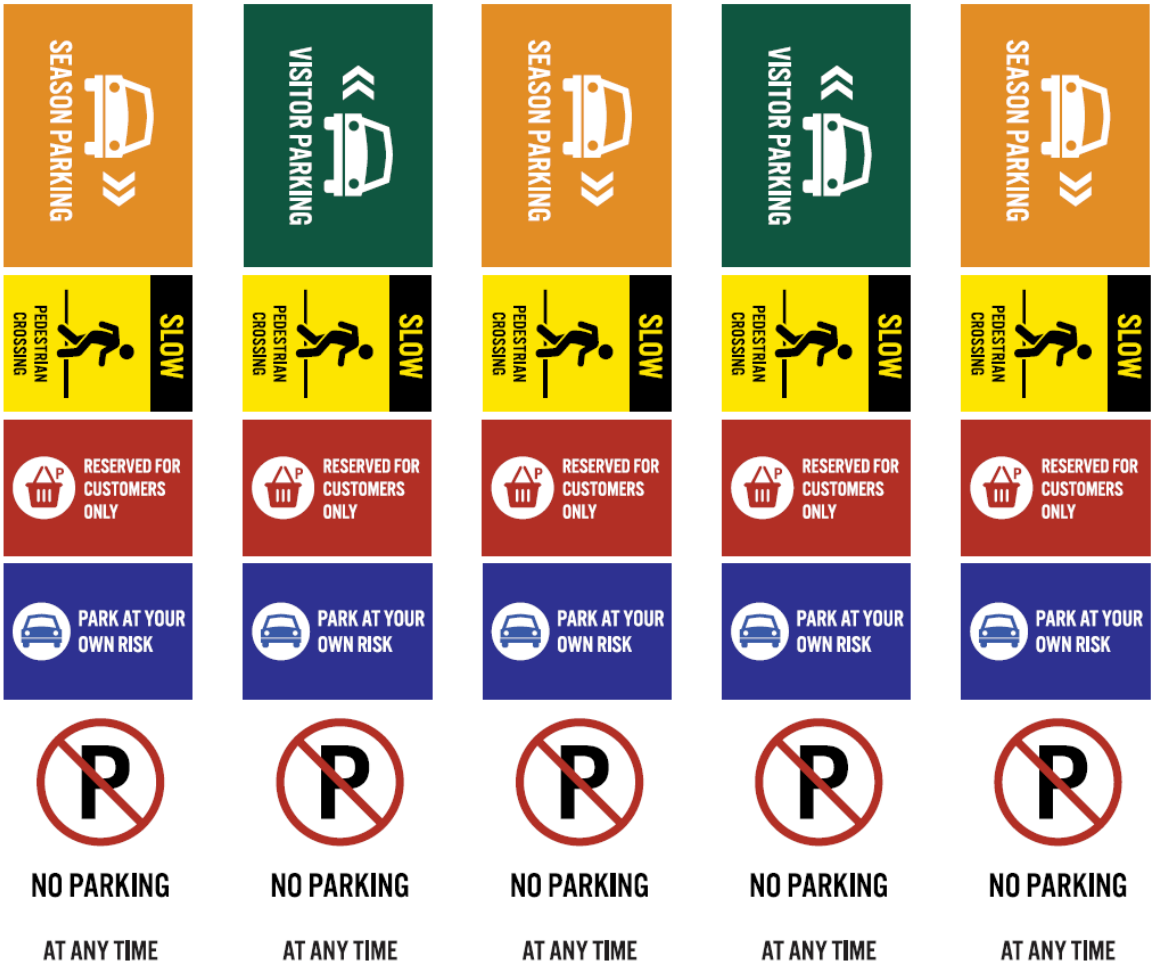
3. Image Files

Following files are available for download on the Mutoh reseller zone at www.mutoh.eu

In case of A4-A5 jig :

a4_a5 pos.pdf	6/5/2018 11:45 AM	Adobe Acrobat D...	495 KB
a4_a5 recto.pdf	4/9/2018 2:37 PM	Adobe Acrobat D...	624 KB
a4_a5 verso.pdf	4/10/2018 10:22 AM	Adobe Acrobat D...	26,185 KB

Example : a4_a5 recto.pdf



In case of A6 jig :

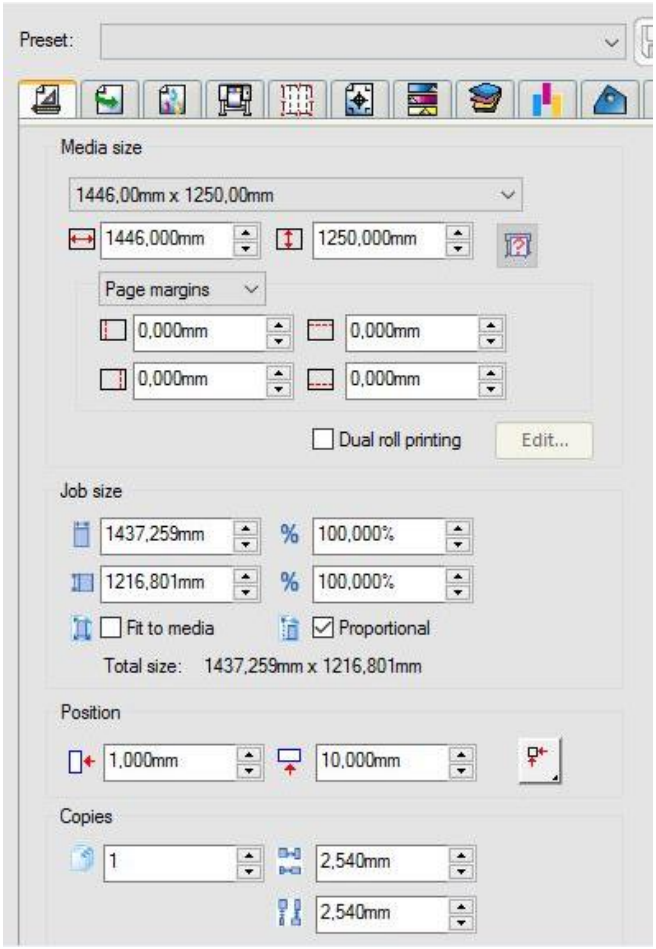
a6 pos.pdf	6/5/2018 10:21 AM	Adobe Acrobat D...	40 KB
a6 recto.pdf	4/17/2018 1:44 PM	Adobe Acrobat D...	144,336 KB
a6 verso.pdf	4/17/2018 11:02 AM	Adobe Acrobat D...	122,101 KB

Example: a6 recto.pdf

4. SAi / Onyx RIP Settings

SAi

- Resolution : 720 x 1080 dpi unidir ; speed = 3.4 sqm/h
- Set media size to jig dimensions; set page margins to 0



ONYX

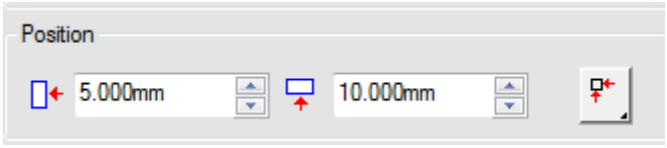
- Resolution : 720 x 1080 dpi unidir ; speed = 3.4 sqm/h
- Select 64 inch roll media size

5. How to Load the Jig

In the RIP software, you can change the positioning of the image on the media via X- and Y-offset.

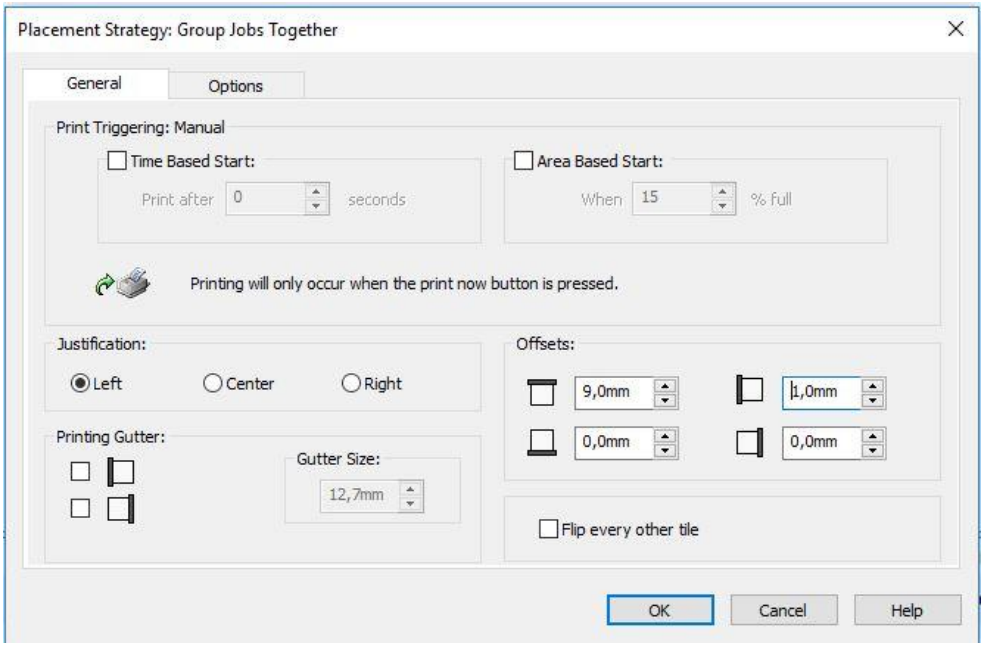
SAi

Example : Y-offset = 5mm ; X-offset = 10 mm



ONYX

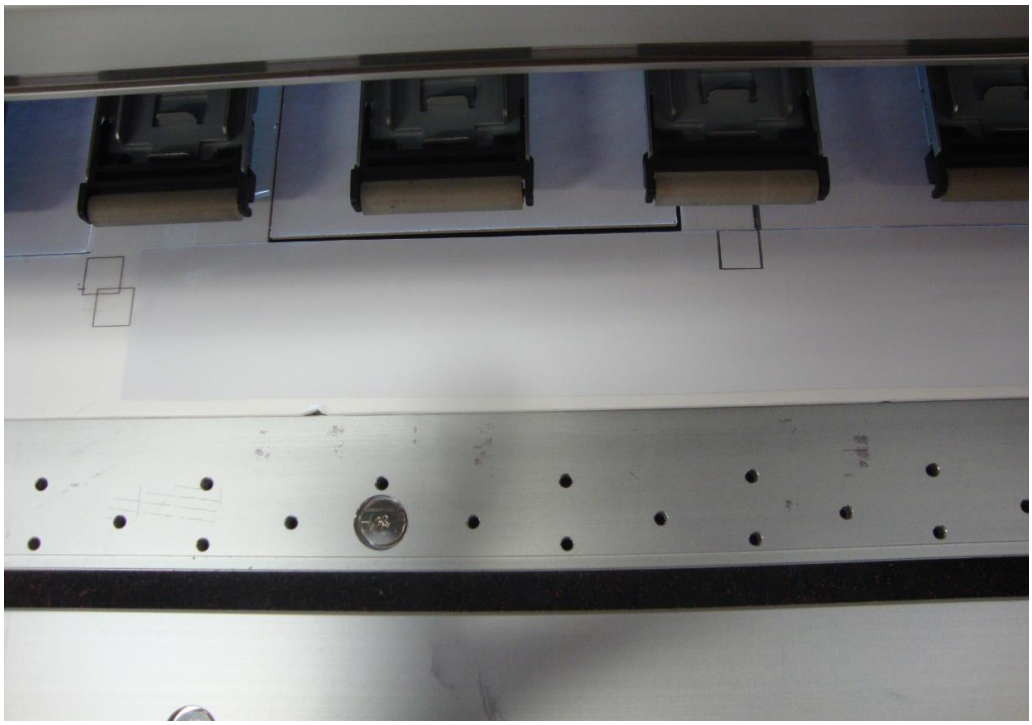
Example : Y-offset = 1.0 mm; X-offset = 9.0 mm



When using roll to roll media, the X-offset is not crucial, except for possible top feed when using platen heaters. When using a jig, however, the X-offset is as important as the Y-offset for correct placement of print data.

Every time the jig is manually loaded, after media initial phase (height, top&width) is finished and before starting to print, the actual start position of the jig in X-direction must be the same.

In case of A6 jig, do “lever down” when jig is physically in position as shown in the picture below.



Warning :

During media initial phase, please make sure to set the total head height (actual thickness + offset) to maximum

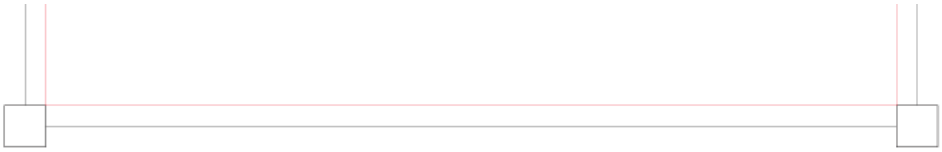
Remark :

The detected media width can be verified and is shown on the panel, in case of both jigs this value should be > 1400 mm

6. Finding correct X and Y-offset values

In case of A6 jig, print file a6 pos.pdf

This will print 2 black positioning marks. With the correct X- and Y-offset applied, the positioning marks should be as shown in the picture below



Once the positioning marks are in the right place, you are all set to print both recto and verso image files.

Should you have further questions, please contact our product application department at product.support@mutoh.eu