

## New flatbed cutting plotter with a router head:

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### CF3-1610/CF3-1631

**Nagano Japan, August 28, 2007**

Mimaki Engineering Co. Ltd. (The head office: Nagano, Japan, President: Akira Ikeda) today announced new flatbed cutting plotters: CF3-1631 /1610 which can cut rigid materials up to 1.6 X 3.1m (5' x 10').



Mimaki introduced two new large-sized flatbed UV-curable inkjet printers: JF-1631 and JF-1610 at the end of last year. These printers can print directly on un-coated rigid materials like acrylic and plastic. This further underscores the need to cut rigid materials as flatbed UV-curable inkjet printers have become increasingly popular. Needs for contour cutting of rigid materials has appeared as a new request with the advent of UV-curable inkjet printers. To meet these demands, Mimaki has developed new flatbed cutting plotters equipped with a router head. These cutters are the same sizes as JF series to make contour cutting of prints on rigid materials like acrylic and aluminum products.

"We believe the combination of the JF series and CF3 series will contribute to the production of value-added products." says Mr. Masafumi Okabe, Division Manager of cutting plotters.

In addition, Reciprocating cutter model and Tangential cutter model are also available. The reciprocating cutter models allow for cutting corrugated board and thick, soft materials by utilizing an osculating cutter. The tangential cutter models have two types of tangential cutters to cut various

materials from soft to rigid with the cutting force of up to 5kg (11lbs.). These cutter heads can be changed by users.

An added feature is newly developed two softwares. Mimaki Product Manager can be used to set up cutting conditions and settle problems with the Wizard functions from PC. FineCut 7, a plug-in cutting software allows the user to create cutting data from CorelDraw and Adobe Illustrator. These softwares enhance productivity and realize easy-to use cutting.

## Main futures

### 1. Three types of user changeable cutting heads are ready

M head (Router)	R1 head (Reciprocating cutter)	TF2 head (Tangential cutter)
Rigid materials, like acrylic and aluminum, can be cut with a high speed spindle.	The reciprocating cutter allows for cutting materials up to 20mm. Creasing is available.	Two types of tangential cutters cut various materials ranging from soft to rigid.
<b>set tools</b>		
<ul style="list-style-type: none"> <li>· Endmill</li> </ul>	<ul style="list-style-type: none"> <li>· Pen/Swivel cutter</li> <li>· Reciprocating cutter</li> <li>· Creasing roller/High-pressure tangential cutter</li> </ul>	<ul style="list-style-type: none"> <li>· Pen/Swivel cutter</li> <li>· Tangential cutter</li> <li>· High-pressure tangential cutter</li> </ul>

### 2. Color photo sensor for precise contour cutting

A color photo sensor detects registration marks printed on substrates regardless of color of substrates. Precise contour cutting can be made by adjusting alignment and distance.

### 3. The partitioned vacuum table allows for fixing different sized media

The vacuum table is divided into six zones. Its activated zones can be set according to the size of the materials. (1610 has two zones.)

In addition, the air stream can be reversed to move heavy materials with ease.

### 4. Two kinds of software included: Mimaki Product Manager and FineCut 7

With the Mimaki Product Manager, cutting conditions can be set and problems can be settled with Wizard function from a PC. FineCut 7, plug-in cutting software creates cutting data from CorelDraw or Illustrator and makes contour cutting. Router cutting can be made directly from popular graphics software of CorelDraw and Illustrator.

## Main Specifications

**Effective cut area:** CF3-1631 : 1,600mm x 3,100mm (63" x 122")

CF3-1610 : 1,600mm x 1,000mm (63" x 39.3")

**Driving method:** X,Y,Z,θ DC-servo, Special timing drive

**Maximum speed:** 50cm/s (20 inch/s)

**Media set device :** Air suction by blower

**Maximum cutting depth:** Router: 50mm (1.97")

Tangential cutter: 10mm (0.39")

Reciprocating cutter: 20mm (0.78")

**Command:** MGL-IIc3 (support MGL-IIc)

**Interface:** USB, RS-232C

i-Sub Digital Ltd  
i-Sub House, Gilmorton Road,  
Lutterworth. Leics. LE17 4DZ.

Tel: 01455 203204  
Web: [www.i-subdigital.com](http://www.i-subdigital.com)

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