CUTTING PLOTTER

FXII series

Mimaki

CG-75FXII CUTTING PLOTTER   CG-130FXII CUTTING PLOTTER   CG-160FXII CUTTING PLOTTER

World standard of multi cutting plotter

- Continuous crop mark detection
- Long accurate tracking
- FineCut – Plug-in for print & cut solutions

CG-75FXII CUTTING PLOTTER

CG-130FXII CUTTING PLOTTER

CG-160FXII CUTTING PLOTTER

Media baskets are optional.

Expressiveness and Functionality

Print&Cut
Precise contour cutting to make stickers and seals

Printing by the JV33 series

Contour cutting by the CG-FXII series

Cut Line

Domed Sticker

*A separated kit for the doming process is required

- Selectable clamp pressure with high and low setting ensures accurate cutting of various media.
- Selectable three jog speeds ensure proper and easy positioning of the head to the point.
- Over-cut function makes the starting and ending points overlapped, which eliminates uncut portion.
- Media can be loaded from back or front.
- Up to 6 roll media can be set at a time(1 set standard).
- A special adaptor to use commercially available pens and USB interface are included.
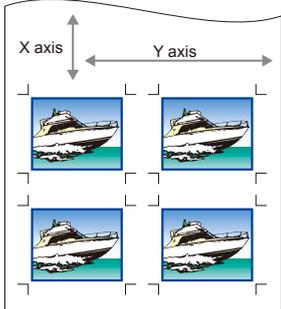
Plug-in cutting software is included

Fine Cut 8
for Illustrator® for Windows / Macintosh
for CorelDRAW® for Windows

High speed continuous crop mark detection

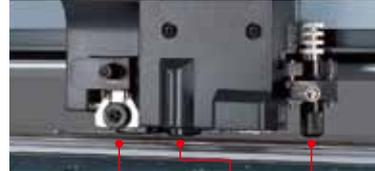Light pointer easily adjust the head position to crop marks

An optical sensor enables automatic consecutive detection of crop marks throughout the nested image which the inkjet printer prints, in combination with the automatic adjustment function to obtain precise contour cutting.

By continuously detecting a maximum of 4 points , nested images in both X and Y axis can be cut aligning each image automatically.

Engineered Head Unit

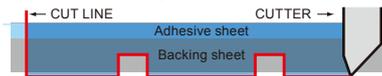Media is automatically cut by a standard sheet cutter.

Automatic sheet cutter   Light pointer   Swivel cutter

"HALF CUT"mechanism, a proprietary technology of Mimaki

With the original half cut function, the backing sheet can be cut leaving a little bit of half cut connecting points, which can be easily detached when necessary. Various media without backing sheets can be also cut.

CUT LINE   CUTTER
Adhesive sheet
Backing sheet
A   B   A   B   A
A=Die cut(through cut)   B=Half cut(cut through half the media)

Die cut and half cut

Specifications

Item		CG-75FX-II	CG-130FX-II	CG-160FX-II
Acceptable sheet width		90 mm – 1,040 mm (3.54 " – 40.9 ")	90 mm – 1,580 mm (3.54 " – 62.0 ")	90 – 1,880 mm (3.54 " – 74 ")
Acceptable roll sheet		Outer less than φ 200 mm , Roll weight less than 18 kg		Outer less than φ 200 mm / Roll weight less than 22 kg
Effective cutting area*1		760mm×51m (29.9 "×167 ')	1,300 mm × 51 m (51.2 "×167 ')	1,600 mm × 51 m (62.9 "×167 ')
Maximum auto cutting width*2		870mm (34.2 ")	1,425 mm (56.1 ")	1,720 mm (67.7 ")
Maximum cutting speed		100 cm/s (39.3 "/s)		
Maximum moving speed		140 cm/s (55 "/s)		
Adjustable speed range*3		1-10 cm/s : 1 cm step adjustment(0.39 " – 3.94 "/s : 0.39 " step adjustment)		
		10-50cm/s : 5 cm step adjustment(3.94 " – 19.68 "/s : 2 " step adjustment)		
		50-100cm/s : 10 cm step adjustment(19.68 " – 39.37 "/s : 3.94 " step adjustment)		
Mechanical resolution		5 µm(0.0002 ")		
Command resolution		25 µm or 10 µm(0.001 " or 0.0004 ")-MGL-IIc		
Repeatability		±0.2mm (Excluding shrinkage /expansion caused by the film temperature)		
Pen pressure		400 g		
Range of down pressure	Cutter	10 – 20 g(2 g step), 20 – 100 g(5 g step), 100 – 400 g(10 g step)		
	Pouncing	10 – 20 g(2 g step), 20 – 100 g(5 g step), 100 – 400 g(10 g step)		
	Pen	10 – 20 g(2 g step), 20 – 100 g(5 g step), 100 – 150 g(10 g step)		
Acceptable sheet for cutting*4		Vinyl up to 0.25 mm(0.01 ")thickness, Fluorescent type vinyl Reflective sheet		
Acceptable sheet for bouncing*5		Paper thickness: 0.06 – 0.13 mm (0.0024 " – 0.005 ")		
Applicable tools*6		Cutter, Water based ball-point pen Oil based ball-point pen, bouncing tool		
Type of command		MGL-IIc		
Interface		RS-232C,USB		
Receiver buffer size		30 MB Standard (20 MB when in sorting)		
Operational	Temperature	5 – 35℃ (41 – 95℉)		
	Humidity	35 – 75%(Rh) Non-condensation		
Power requirement		AC 100 V – 240 V		
Power consumption		130 VA or less		
Dimensions (W×D×H)		1,285 mm (50.5 ")×700 mm (27.5 ")×1,217mm (47.9 ")	1,825 mm (71.8 ")×700 mm (27.5 ")×1,217 mm (47.9 ")	2,125 mm (83.6 ")×700 mm (27.5 ")×1,217 mm (47.9 ")
Weight (with stands)		50 kg(110 lbs.)	60 kg(132 lbs.)	69 kg (152 lbs.)

- All trademarks or registered trademarks are the property of the respective owners.
- Specifications are subject to change without notice.

*1 : Maximum sheet feeding length differs depending on the software.
*2 : Sheet width to cut off from the roll.
*3 : Restricted sheet width.
*4 : Provided that the blade specific to fluorescent type vinyl (SPB-0007) and the blade specific to reflective sheet (SPB-0006) are used.
*5 : Pouncing tool intended specifically for pouncing shall be used.
*6 : The goods on the market are φ8～ φ9. No guarantee with accuracy, and image quality.

■ Optional Tools and Accessories

	CG-75FX-II	CG-130FX-II	CG-160FX-II
Cutter holder	SPA-0090		
Blade for sheet cutter	SPA-0119		
Pouncing set	OPT-C0095 (Holder×1, Needle×2)		
Pen-line rubber	SPC-0358	SPC-0353	SPC-0381
Pen-line sponge	SPC-0359	SPC-0354	SPC-0382
Roll set	OPT-C0185	OPT-C0183	OPT-C0187
Sheet basket	OPT-C0184	OPT-C0182	OPT-C0186

■ Variety of Blades

	CG-75FX-II	CG-130FX-II	CG-160FX-II
Standard Blade for Vinyl	SPB-0030		
For Reflective sheet	SPB-0006		
For Fluorescent sheet	SPB-0007		
For Vinyl sheet and paper	SPB-0001		
For Small character	SPB-0003		