

The CF2 Series flat bed cutting plotter capable of cutting various kinds of media with high accuracy without dies. Out of a total of 30 kinds of line-up, you can choose the one best suited for your needs. By cutting the printed media, you may produce high value-added products on demand required. Begin multi-type small-lot production with unprecedented high quality.

# CF2 Series Flatbed Cutting Plotter

CF2-T/TF/RT/TD/RC



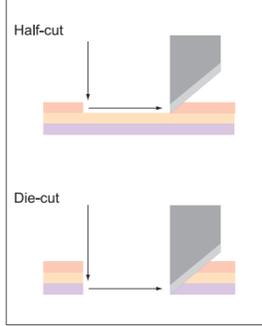
Perform high accuracy cuts on a wide range of materials.



### Composite materials etc. can be half-cut.

### Half-cut

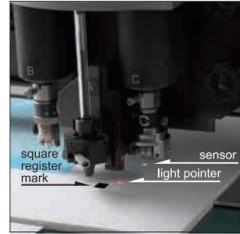
By adjusting the depth of the cutter blade, you can half-cut composite, laminated material (etc.). As two tools can be used, you can perform different types of half-cutting or die-cutting without changing the tools.



### Thick material can be outline-cut with high accuracy.

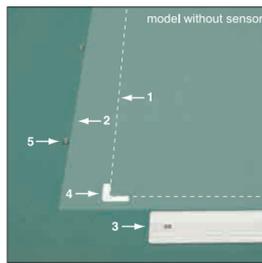
### Mark-sensor function

With the adoption of a high performance color photo sensor, the square register marks printed on the media are detected and the position of the origin, inclination of coordinate and distance are adjusted. This enables the operator to perform cutting at the precise position. Further, the sensor recognizes the difference of "color of media" and "color of square register marks", and enables the cutter to perform cuts accurately, while being tailored to the printed material without being influenced by the color of the media. A light pointer that is used as marker when setting the media is provided as standard device and facilitates position adjustment with square register marks.



### Media is set easily and accurately.

With the aid of a work-guide installed to the directions of X and Y, the positioning of the media is smooth and working efficiency has been improved. It is also possible to remove the work-guide depending on the media size.



- 1: Effective range of cutting
- 2: Media
- 3: Work-guide plate
- 4: Origin seal
- 5: Work-guide pin

\*For models with sensor, work-guide plate is used instead of work-guide pin. \*Please note that the work guide is used just as a guide for setting the media and it is not intended to guarantee the distance to the origin.

### Extensive line-up of cutter blades.

A wide variety of cutter blades tailored to various media are provided. As one machine can process with flexibility, expand your business opportunities.



Cutter blades in the marketplace can also be used. As the low cost cutter blades can be used, the running cost can be reduced.

### Full of useful functions to support cutting

#### Correction of starting and ending points

The starting and ending positions of cutting are corrected, which makes cut-away of the media smoother. Adjustable within the range of 0 to 2.5 mm.

#### press correction

Pressure of tool coming down is corrected to ensure complete cutting.

#### Circle # correction

Declination of starting point and ending point of a circle cutting caused by thickness or hardness of the media is corrected and cutting nearly perfect circle is available.

#### Repeated cutting

Is capable of repeating the cutting up to maximum of 5 times changing the cutting pressure. With only one time of data sending, you can cut even thick material with high quality finish.

#### back cutting

Back cutting is also possible by attaching mark chips to the back surface. From the front surface, excess cut is not seen making the finish beautiful.

#### Multiple registration of cutting conditions

Cutting conditions such as pressure, speed, correction of starting and ending points, circle # correction, offsets, etc. by tool may be registered for multiple times.



\* Provided with CF2-RC/RT as standard items.

\* Enhanced blower is also available as option.

### CF2 series specifications

		CF2-0912**	CF2-1215**	CF2-1218**
Effective plotting area	X	1,170 mm (46.1")	1,470 mm (57.9")	1,770 mm (69.7")
	Y	1,200 mm (47.2")	1,500 mm (59.1")	1,800 mm (70.9")
Motorization		X,Y,Z,θ 4 axes DC software servo		
Maximum plotting speed		50 cm (19.7")/s		
Maximum acceleration		0.5 G		
Mechanical resolution		X:0.00234 mm (0.00009") Y:0.003125 mm (0.0001") θ:0.05625°		
Command resolution		0.025 mm (0.001") / 0.01 mm (0.0004") (changeable from operation panel)		
Static accuracy*	Repetition accuracy	± 0.1 mm (0.004")		
	Distance accuracy	± 0.1 mm (0.004") or ± 0.1 % whichever is greater		
	Origin repetition accuracy	± 0.1 mm (0.004")		
Maximum thickness of set work		T / TD : 25 mm (1") RT / RC : 20 mm (0.8")		
Work fixation		Air suction by a blower		
Receiver buffer size		1MB		
Command		MGL-II c3 (Support MGL-II c)2		
Interface		RS-232C		
Dimension	Width	1,760 mm (69.3")	2,060 mm (81.1")	2,360 mm (92.9")
	Depth	1,600 mm (63.0")	1,900 mm (74.8")	or less
	Height	1,100 mm (43.3") or less		
Weight	140 kg (308 lbs.)	165 kg (364 lbs.)	180 kg (397 lbs.)	
Operation environment		Temperature: 5 ~ 40 °C Humidity : 35 ~ 75% (Rh) No condensation		
Power requirement		Main Unit : 50 / 60 Hz AC 100 / 120 / 220 / 240 V (tap changing) Blower : Stated separately		
Power consumption		Main Unit : 300 VA Blower : Stated separately		

\*1 It is an accuracy while pen plotting almost without the load. Guaranteed temperature range is 20 to 25 °C. \*2 A command based on HP-GL.

### Available materials for processing

	T	TF	RT	TD	RC
Corrugated fiberboard (E to B flute)*				●	●
Corrugated fiberboard (AB flute)*					●
Coated board for packaging*				●	●
Vinyl chloride for clear package*				●	●
Corrugated plastic				●	●
Vinyl chloride sheet for signboard	●	●	●	●	●
Soft vinyl chloride (0.5 to 10 mm)	△	△			
Reflecting sheet	●	●	●	●	●
Sand-blast rubber	●	●	●	●	●
Industrial sheet rubber (3 mm or less)	●	●	●	●	●
Industrial sheet rubber (0.5 to 10 mm)	△	△			
Pattern Happort	●	●	●	●	●
Teflon (1.0 to 5.0 mm)	●	●	●	●	●
Resin belt. (5.0 mm or less)	●	●	●	●	●
Various foam (20 mm or less)				●	

The above table is for the references. Please make sure to have a preliminary test. The material marked with (\*) is available with creasing roller, too.

### Optional supply items/Standard accessories

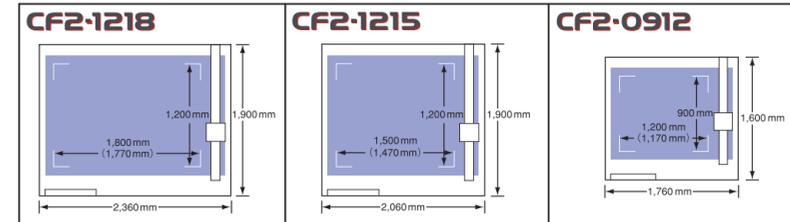
Item	Item.No	T	TF	RT	TD	RC	Remark
Swivel cutter holder	SPA-0001	●	●	●	●	●	
Swivel blade for vinyl sheet	SPB-0001	●	●	●	●	●	3 pcs.
Swivel blade for small letters	SPB-0003	●	●	●	●	●	3 pcs.
Swivel blade for rubber sheet	SPB-0005	●	●	●	●	●	3 pcs.
Swivel blade for reflective sheet	SPB-0006	●	●	●	●	●	2 pcs.
Swivel blade for fluorescent sheet	SPB-0007	●	●	●	●	●	3 pcs.
Cutter holder 4N	SPA-0053	●	●	●	●	●	Media thickness 5mm or less
Cutter holder 2N	SPA-0113	●	●	●	●	●	Media thickness 2mm or less
High-speed steel blade 30°	SPB-0043	●	●	●	●	●	40 pcs. x 5 c/s
Carbide blade 30°	SPB-0045	●	●	●	●	●	3 pcs.
Titanium-coated blade 30°	SPB-0047	●	●	●	●	●	3 pcs.
High-speed steel blade 45°	SPB-0044	●	●	●	●	●	40 pcs. x 5 c/s
Carbide blade 45°	SPB-0046	●	●	●	●	●	3 pcs.
Titanium coated blade 45°	SPB-0008	●	●	●	●	●	
Cutter holder 7N	SPA-0054	●	●	●	●	●	Media thickness 7mm or less
High-speed steel blade 30° 7mm	SPB-0048	●	●	●	●	●	15 pcs. x 5 c/s
Cutter holder 10N	SPA-0077	●	●	●	●	●	Media thickness 10mm or less
Carbide design blade 30°	SPB-0051	●	●	●	●	●	3 pcs.
Joint carbide blade	SPB-0063	●	●	●	●	●	3 pcs.
Cutter holder RN	SPA-0055	●	●	●	●	●	
Titanium coated both blades	SPB-0009	●	●	●	●	●	Reflective sheet
Cutter holder JN	SPA-0081	●	●	●	●	●	
Carbide both blades	SPB-0031	●	●	●	●	●	2 pcs. Joint sheet
Cutter holder 06(S)	SPA-0251	●	●	●	●	●	
Carbide blade 2°	SPB-0064	●	●	●	●	●	5 pcs. Sponge of thickness 20mm or less
Cutter holder 07	SPA-0114	●	●	●	●	●	
20 mm blade	SPB-0055	●	●	●	●	●	10 pcs. Corrugated fiberboard
Carbide blade 17°	SPB-0065	●	●	●	●	●	5 pcs. AB corrugated fiberboard
Cutter holder 08 x 15	SPA-0170	●	●	●	●	●	
Carbide blade 7 x 15	SPA-0075	●	●	●	●	●	5 pcs. Rubber of thickness 15mm or less
Cutter holder 09x5	SPA-0179	●	●	●	●	●	
Carbide blade 25x5	SPB-0077	●	●	●	●	●	5 pcs.
Creasing roller DN	SPA-0056	●	●	●	●	●	Thick (E corrugated fiberboard)
Creasing roller CN	SPA-0057	●	●	●	●	●	Medium (Coated board)
Creasing roller PN	SPA-0058	●	●	●	●	●	Fine (Coated board, pleats)
Creasing roller EN	SPA-0067	●	●	●	●	●	E/B corrugated fiberboard
Creasing roller YN	SPA-0124	●	●	●	●	●	General corrugated fiberboard
Pen holder	SPA-0068	●	●	●	●	●	
Vacuum unit	OPT-C0199	●	●	●	●	●	120V 0.51/0.7KW (Filter is an option.)
Vacuum unit	OPT-C0200	●	●	●	●	●	220V 0.51/0.7KW (Filter is an option.)
Vacuum unit	OPT-C0201	●	●	●	●	●	240V 0.51/0.7KW (Filter is an option.)
Vacuum unit	OPT-C0205	●	●	●	●	●	120V 0.38KW (Filter is an option.)
Vacuum unit	OPT-C0206	●	●	●	●	●	220V 0.25/0.38KW (Filter is an option.)
Vacuum unit	OPT-C0207	●	●	●	●	●	240V 0.25/0.38KW (Filter is an option.)
Blade edge adjuster	OPT-C0066	●	●	●	●	●	Swivel cutter adjustment by dial type
Blade edge adjuster II	OPT-C0237	●	●	●	●	●	Tangential cutter adjustment by dial type

### Line-up

CF2	Size	Head	Sensor
	0912	T	with sensor
1215	TF	without sensor	
1218	RT		
	TD		
	RC		

Custom-ordered According to customer's application, a custom-ordered CF2 series can be manufactured. Please consult.

### Size variation (\*\* mm): Models with sensor



\*Please install this unit confirming that there is a space of 1,000 mm or more around the unit.

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**Superior sharpness and extremely accurate cutting quality. Enable your multi-type-small-lot production with the CF2**



**NEW!** Standard feature Software downloadable from our website for your convenience!

**FineCut9 for Illustrator** **FineCut9 for CorelDRAW**

Plug-in cutting software for Adobe Illustrator CC2019

The combination of FineCut9 and a register-mark sensor allows calibrated inclination of coordinates or distance to assure accurate cutting. The [Mark separation] function can also handle long media by cutting it multiple times.

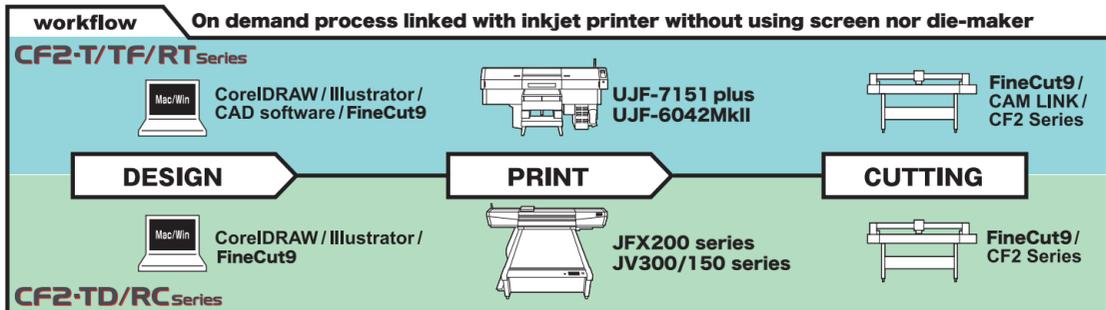
<Main features>

- Direct and simple cutting from Adobe Illustrator
- [Multiple Cutting] function cuts the same place with different conditions such as pressure.
- [Line Separation] function prevents over-cutting of media.

Four register marks making by [Creating Register Marks] function

Print → Loading the register marks by CF2 for Print & Cut → Cut → Finish

\* The caster is an optional item.



**CF2 Series CF2-T/TF/RT Series**

**Use extensively with a variety of industrial materials such as various kinds of rubber, resin, and so on.**

- Capable of performing on-demand production responding quickly even to an order as small as 1 piece.
- You can perform from sample making to short-run production, as you like.
- The mark sensor function enables you to make accurate contour cutting of printed media.
- Depending on ideas, you may produce innovative value-added products.



**RT head (electric reciprocating cutter)**

By reciprocating the cutter up and down at high speed, even thick material of up to 20 mm can be cut. Up to 10 mm thick, you can cut while pressing materials. Various material such as foamed material including sponge can be cut.

Vertical cut

**Even complicated shapes and various materials can be cut.**

Various industrial materials can be cut with a variety of cutters.

**TF head**

**RT head**

**Head composition**

Head	Tool	Pressure	remarks
T	A Pen / swivel cutter	20 - 400 g	
	B Tangential cutter	300 - 1,500 g	
TF	A Pen / swivel cutter	20 - 400 g	
	B Tangential cutter	300 - 1,500 g	
	C High-pressure tangential cutter	1,000 - 5,000 g	
RT	A Pen / swivel cutter	20 - 400 g	
	B Reciprocating cutter	1,500 g fixed	Stroke 5 mm, Max. vibration 5,000 times
	C Tangential cutter	500 - 1,500 g	
		300 - 1,500 g	

Material-holding unit (detachable)

**CF2 Series CF2-TD/RC Series**

**Actively used for small lot commercial production of decorated cases, displays, POP, etc.**

- Possible to perform an on demand production quickly responding to an order even as small as 1 piece.
- You can perform from sample making to short-run production, as you like.
- Mark sensor function enables you to make precise contour cutting of printed materials.
- Creasing tool produces optical creases in carton and corrugated board.



**Thick material is cut with RC head.**

By reciprocating the cutter up and down at high speed, even thick material can be cut. The material that can be cut has been further extended including double-faced corrugated board.

**Mark chips enable to cut from the back surface.**

By attaching special mark chips, it is possible to perform cutting, drawing of ruled lines and folding lines from the back surface. The mechanism is that the sensor reads the center of the chip and cut. (FineCut is used.)

**TD head**

**RC head**

**Head composition**

Head	Tool	Pressure	remarks
TD	A Pen / swivel cutter	20 - 400 g	
	B Tangential cutter	300 - 1,500 g	
	C Marking gauge roller	1,000 - 5,000 g	
RC	A Pen / swivel cutter	20 - 400 g	
	B Reciprocating cutter	1,500 g fixed	Stroke 2 mm Maximum vibration 7,000 times
	C High-pressure tangential cutter / Creasing tool	500 - 1,500 g	
		1,000 - 5,000 g	

Material-holding unit (detachable)