key 01 Highest cutting speed in its class

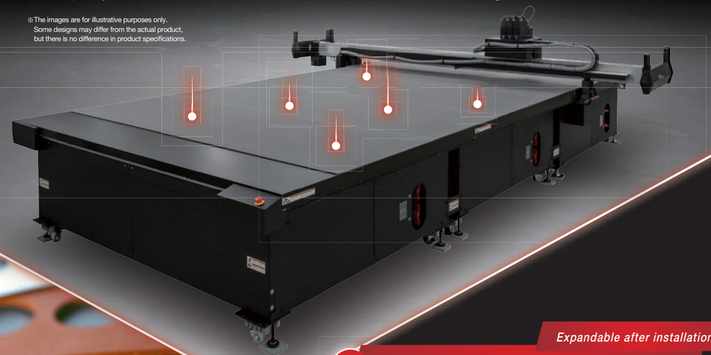
Achieve a maximum cutting speed of 100 cm/sec, approximately double that of our conventional machines.
Give shape to your ideas immediately, improving the efficiency of your cutting business.

key 02 High-quality V-cut

The height accuracy of the entire table is automatically scanned at the time of installation and tracked during cutting.

V-cut quality is uniform across the entire work table with a maximum length of 5 m.

※The images are for illustrative purposes only.
Some designs may differ from the actual product, but there is no difference in product specifications.



key 03 3 table sizes in line-up

Expandable after installation

Lineup

Sign display standard size 4x8 board
Maximum cutting size 1,300mm × 2,540mm

CFX-2513

Toggle cutting of 4x8 plates greatly improves processing efficiency
Maximum cutting size 3,190mm × 2,540mm

CFX-2531

Processing of sign banners and packages up to 5m long
Maximum cutting size 5,080mm × 2,540mm

CFX-2550

Supply List

Tool	Product name		Number	Features	Remarks
Flat blade tool FBT	T04 Holder (Included with a tool)				
		High-speed steel blade 30°	SPB-0043	Blade thickness 0.4mm / Suitable for relatively soft materials.	40 sheets x 5 cases
		High-speed steel blade 45°	SPB-0044	Blade thickness 0.4mm /Materials: natural rubber, CR rubber, NBR rubber, silicon rubber, urethane rubber, cloth-filled rubber, rubber-filled cork, synthetic leather	3 pieces
		Carbide blade 30°	SPB-0045	Blade thickness 0.4mm / Ideal for cutting relatively hard materials and cutting that requires machining accuracy.	3 pieces
		Carbide blade 30°DLC	SPB-0080	Applied a diamond coating on SPC-0045 to improve durability.	3 pieces
		Carbide blade 45°	SPB-0093	Blade thickness 0.4mm / Ideal for cutting relatively hard materials and cutting that requires machining accuracy.	3 pieces
		Titanium coated blade 30°	SPB-0047	Blade thickness 0.4mm / Ideal for cutting materials that require more durability than carbide blades.	1 pieces
	T06 Holder (Included with a tool)				
		Carbide design blade 30°	SPB-0051	Carbide blade capable of cutting materials up to 0.6mm / 10mm blade thickness.	3 pieces
		Joint sheet carbide blade	SPB-0063	Carbide blade for joint sheets, capable of cutting up to 10 mm material.	3 pieces
Reciprocating tool	Reciprocating cutter blade holder S06		SPA-0343		
		Carbide blade 2°	SPB-0064	Blade thickness 0.6mm / Reciprocating cutter blade developed mainly for cutting foam, suitable for cutting foam up to 20mm.	5 pieces
		Carbide blade 7×15	SPB-0075	Cutting blade for rubber can cut up to 15mm.	5 pieces
	Reciprocating cutter blade holder M06		SPA-0344		
		20mm blade	SPB-0055	Blade thickness 0.6mm / Reciprocating cutter blade developed mainly for cutting corrugated board, suitable for cutting up to AB level.	10 pieces
		Carbide blade 17°	SPB-0065	Blade thickness 0.6mm / Durable reciprocating cutter blade developed mainly for cutting corrugated board, suitable for cutting up to AB level.	5 pieces
		Carbide blade 17°DLC	SPB-0083	Durable reciprocating cutter blade developed mainly for cutting corrugated board, suitable for cutting up to AB level.Diamond coating is applied to SPB-065 to improve durability.	5 pieces
	Reciprocating cutter blade holder L10		SPA-0345	Reciprocating cutter developed for hard gaskets with a blade thickness of 0.6 mm / 3 mm or less, allowing cutting up to 5 mm thick.	
		Carbide blade 25×5	SPB-0077	Reciprocating cutter developed for hard gaskets with a blade thickness of 0.6 mm / 3 mm or less, allowing cutting up to 5 mm thick.	5 pieces
		Carbide blade 25×5_DLC	SPB-0078	Diamond coated blade thickness 0.6mm / SPB-0077 Improved durability.	5 pieces
		Carbide blade 25×5 F DLC	SPB-0079	Based on SPB-0077 with a blade thickness of 0.6 mm and a flat blade of 0.8 mm at the tip, It is diamond coated to prevent burrs from forming.	5 pieces
	Reciprocating cutter blade holder S10		SPA-0346		
		40mm blade (Carbide)	SPB-0056	Blade thickness 1.0 mm / Reciprocating cutter blade developed mainly for cutting foam, suitable for cutting foam up to 20 mm.	5 pieces
		S10 Reciprocating cutter carbide 2°×50mm	SPB-0094	Reciprocating cutter blade capable of cutting materials up to 1.0 mm / 54 mm blade thickness.	5 pieces
		S10 Reciprocating cutter carbide 2°×20mm	SPB-0097	Reciprocating cutter blade capable of cutting materials up to 20 mm. Cutting corrugated board at 10 cm/s with E35.	5 pieces
V-cut tool V45 / VAS	—	V-cut blade	SPB-0095	Cutter blade developed for V-cut. It can be used for both 45°/VAS and media up to 20 mm.	1 pieces
—	—	5.5kW/6.3kW vacuum unit	OPT-C0249	One unit for CFX-2513 and two units for other sizes must be purchased separately. Hose, power cable, and connection cable to the CFX main unit are included.	1 set
		Camera Unit	OPT-C0252	Required for cutting dragon marks and cutting the reverse side of pre-printed workpieces. Included in the cardboard processing package and the full package.	1 set
		Felt mat 2513	SPC-0924	Replacement felt mat for the front side of the processing table in sizes 2513, 2531, and 2550.	1 sheet
		Felt mat For additional table	SPC-0925	Replacement machining table felt mat, for use on all machining tables except the front side of sizes 2531 and 2550.	1 sheet

Main Specifications

Items	CFX-2513	CFX-2531	CFX-2550
Valid plotting area【X axis x Y axis】	1,300×2,540mm	3,190×2,540mm	5,080×2,540mm
Settable material size【X axis x Y axis】	1,890×2,570mm	3,780×2,570mm	5,670×2,570mm
Driving system	X/Y axis : AC servo Z/θ axis : DC servo		
Max. plotting height (Clearance at tool rise)	E12/E35/ E60 : 54mm V45/VAS : 20mm FBT : 10mm C16/C26 : 54mm C60 : 20mm		
Max. material weight (no concentrated load)	50kg/ ㎡ or less		
Command	MGL-3C ※HPGL standard		
Receiving buffer size	22MB (16MB when sorting is active)		
Interface	RS-232C ／ Ethernet		
Safety standards	VCCI classA, FCC classA, CE Marking, CB Report (EN62368), UL62368-1, Machine directive, RoHS, REACH		
Power Specifications	CFX body : Single phase 200V–240V 50/60Hz 12A or less Vacuum unit OPT-C0249 : Three phase 200V–240V 50/60Hz 30A or less (per one unit)		
Power consumption	CFX body : 3000W or less		
Outer dimensions (WxDxH)	4,050×2,150×1,500mm	4,050x4,050×1,500mm	4,050×5,950×1,500mm
Main unit weight	440kg	660kg	880kg
Installation environment	Operation temperature : 5℃～35℃ Operation humidity : 35～75%Rh Accuracy Guaranteed Temperature : 20℃～25℃ Operation humidity : 35～65%Rh Temperature Gradient : ±10℃/h or less		
Bundled software	FineCut/coat 9		

• Some of samples in this catalog are artificial renderings. • Specifications, design and dimensions stated in this catalog may be subject to change without notice for technical improvements etc. • The corporate names and merchandise names written in this catalog are the trademark or registered trademark of the respective corporations.• Please note that descriptions and data in this catalog are as of March 2024.

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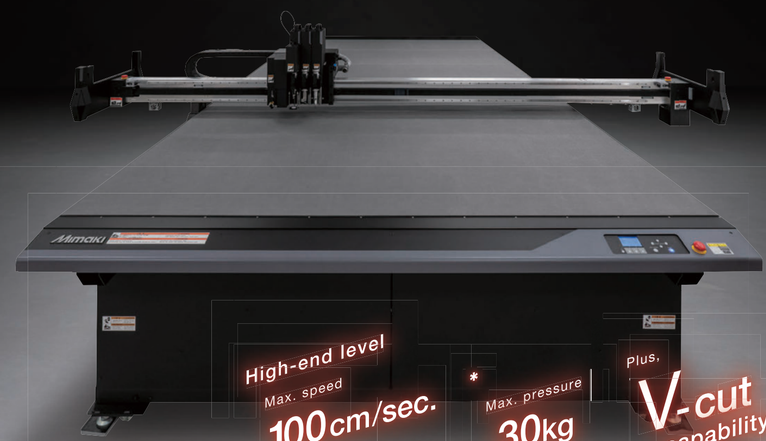
DB40277-00

CFX Series

CFX-2513 / CFX-2531 / CFX-2550

High Speed, High Precision. Best-in-Class Flatbed Cutting Plotters.

Creativity Defines the Use



*at specific cutting conditions

Cardboard packages

Exhibition fixtures and displays

Packages with urethane sponge

Key 04 Max. pressure 30kg, 2 types of cutting mode

Switchable according to material and processing method
Realizes high quality processing.

cut mode A Position Control Mode

Cutting of hard materials with a specified depth of cut.
Also, the creasing line in the direction of the flow line of corrugated cardboard can be processed stably.

cut mode B Pressure Control Mode

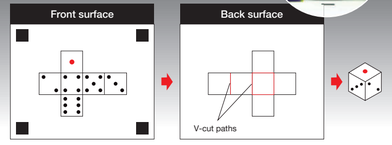
Creasing line processing with specified pressure is also possible.
Reduces ruled cracks and liner cracks in the width direction of softer corrugated board.

Key 05 Can be cut from the back to match the print surface

Camera unit (included in package 02~04)

Registration marks
and the media edge detection

Can cut the exact position from the back side of the print
Provides high quality surface shape



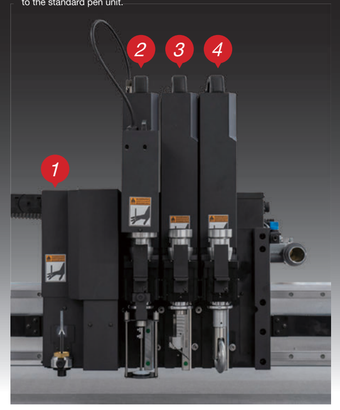
After detecting the printed marks and media edge, the back side is cut.

Key 06 Up to 4 tools can be set at the same time.

Enhanced processing efficiency and variation!

No need to change tools and make adjustments when cutting different materials in succession.

※Up to 3 types of processing tools can be selected in addition to the standard pen unit.



※④ is limited to the unit type and tools can be used.

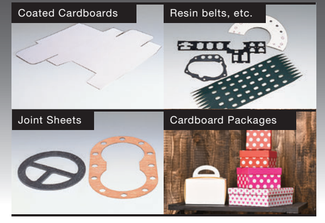
Application Specific Packages

package 01 Package for Paper Container

Entry-level package to start making cartons boxes by cutting and creasing coated cardboard

TUT-15 unit x2
in attached
(Supports a max. pressure of 15 kg)

Application Examples



※Our flatbed printer is required to print the materials. (sold separately)

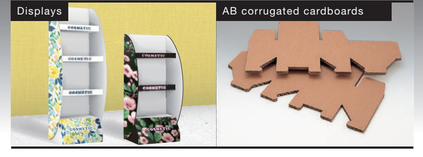
package 02 Package for Corrugated Cardboard

Creasing up to 30kg pressure and reciprolicating cut for AAA corrugated cardboard

TUT-15 unit x2
in attached
TUT-30 unit x2
in attached
(Supports a max. pressure of 30 kg)

2 creasing tools added
to the package for paper container

Application Examples

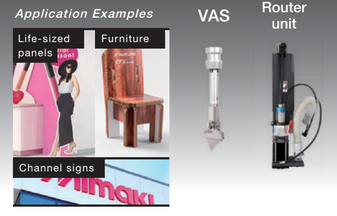


package 03 Package for Sign Making

For all sig display applications, from life-size panels to displays and channel sign milling.

TUT-15 unit x2
in attached
(Supports a max. pressure of 15 kg)
Router unit x1
in attached

Application Examples



package 04 Full package

Full package for urethane sponge cut in addition to corrugated cardboard and sign making package

TUT-15 unit x2
in attached
TUT-30 unit x2
in attached
(Supports a max. pressure of 30 kg)

Application Examples

Tool Mounting Unit

TUT-15 : Pressure 5~15kg
TUT-30 : Pressure 15~30kg

Weight approx. 6kg

Tool List

Mounting Unit	Use the tool mounting unit depending on the material to be processed. TUT-15 : OPT-C0250 or TUT-30 : OPT-C0271 Included in each CFX package								For TUT-30
Tool Name	Electric reciprocating tools E12	Electric reciprocating tools E35	Electric reciprocating tools E60	V-cut tool V45 Type-S	V-cut tool VAS Type-S	Flat blade tool FBT	Creasing tools 16mm C16	Creasing tools 26mm C26	Creasing tools 60mm C60
Ite m codes	OPT-C0272	OPT-C0257	OPT-C0258	OPT-C0277	OPT-C0278	OPT-C0256	OPT-C0261	OPT-C0262	OPT-C0263
Tool Shape									
Max. material thickness	54mm	54mm	54mm	20mm	20mm	T04 holder : 4.0mm T06 holder : 6.0mm (Holder included with tool)	2mm	5mm	10mm
Weight	2.4kg	2.2kg	2.2kg	0.6kg	0.5kg	0.3kg	0.4kg	0.4kg	0.4kg
Features	Amplitude 1.2mm / Rotation speed 12000rpm, cuts foam board and other surfaces cleanly.	Amplitude 3.5mm / Rotation speed 5500rpm Cuts honeycomb boards cleanly	Amplitude 6.0mm / Rotation speed 5500rpm, Newly designed blade enables cutting of thick sponges	Used for V-cut with 45 degree angle	Variable angles in 5 positions without the use of deokuyu tools 0/15/22.5/30/45 degrees	Easy detachment of blades	Roller shaped tool for creasing thin coated balls	Roller shaped tool for creasing A type corrugated cardboard and polypropylene	Roller shaped tool for creasing AA and AB corrugated cardboard
Primary Supported Materials	Foam board Honeycomb board AAA、AA、AB Currugated cardboard	Honeycomb board AAA、AA、AB Currugated cardboard	Sponge or other cushioning material	Honeycomb board AAA Currugated cardboard	Honeycomb board AAA Currugated cardboard	Coated cardboard Coated polypropylene A、B、E Currugated cardboard	Coated cardboard B、E Currugated cardboard	Coated polypropylene A Currugated cardboard	AAA、AA、AB Currugated cardboard

Two types of software can be operated even by beginners

Standard bundled software

FineCut/Coat9 *for Illustrator*®

Plug-in cutting software compatible with Adobe Illustrator | Standard

The combination of Finecut/Coat9 and the mark sensor function enables high-precision cutting while correcting the tilt and distance of coordinates.

- Direct and easy cutting from Adobe Illustrator
- Multi-Cut function to cut the same area with different pressure and other conditions
- Automatic tiling-cut function to prevent overcutting of media
- ID Cut function automates cutting of the printed materials

Optional software

CAMLINK 2

Converts CAD data into optimum cutting data to maximize the capabilities of the cutting plotter.

- CAD data loading and cutting output
- Detailed cutting conditions can be set for industrial cutting, and database creation
- All pen output - Tracing function to reduce waste of expensive materials

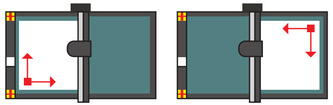
New features for the CFX series

01 V-cut function

V-cut depth of cut can be adjusted and with one click.
Triple cuts can be added with a single click.
Easy post-processing after machining.

02 Edge detection, backside cutting

Provides a process that maximizes the convenience of the camera (optional)

03 Toggle Function

Continuous processing without time loss
in material setting (-2531, -2550 sizes supported)