GRAPHTEC

Flatbed Cutting Plotters

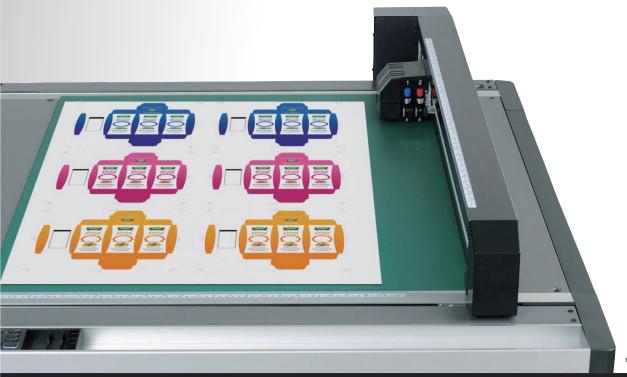
FCX2000 FCX4000 SERIES SERIES

Work Smarter, Not Harder.

The Graphtec FCX Series is the ultimate solution for prototyping and small production runs of rigid materials without the use of a cutting die.

Reduce media waste / processing time with Graphtec's precision cutting and dedicated software.

Added offline (USB) operation enables users of all skill levels to easily process materials.



*FCX2000-60VC shown.

Advanced model with wide variety of tools and highest performance

FCX2000 Series



Speed 400

610, 1200, 1800mm width table sizes with choice of vacuum suction, or electrostatic media hold-down methods depending on application.

FCX2000-60VC

FCX2000-120VC

FCX2000-180VC

FCX2000-120ES

(* FCX2000-120 ES is available in limited region.)

Desktop model offering high performance and cutting speeds up to 750 mm/s

FCX4000 Series



750

The effective cutting area of the 50ES model is expanded for supporting 2 sheets of A3+ size. and the 60ES model supports 4 sheets of A3+ size. It is more suitable in the use of post-processing of Print On Demand.

FCX4000-50ES

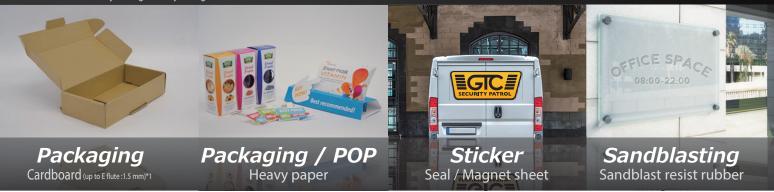
FCX4000-60ES

www.graphteccorp.com

Expanded industrial applications

Precision cutting is achieved by enhancements to the rigidity of the moving mechanism that reduces deflection due to pressure during cutting. This has enabled new functions such as curved creasing / scoring lines. Graphtec flatbed cutting plotters meet the wide variety of applications used in prototyping and short production runs of packaging and industrial materials.

*1 FCX2000 Series only. Cutting accuracy is not guaranteed.



Enhanced functions for higher productivity and work efficiency

Offline operation supported by use of USB flash memory

The USB flash memory format only supports FAT32. Please note that NTFS and exFAT are not supported. The file name must be in half-width alphanumeric characters.

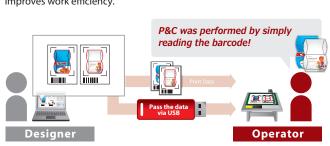
Data management using barcode function with USB flash memory

Plot data is created from the design by using Cutting Master 4 or Graphtec Pro Studio/Plus, then the data is saved to USB flash memory. The plot data file can be selected from the USB by menu operation on the plotter, then cutting is performed. This simplified workflow enables users to operate without a computer.

Offline operation using USB flash memory



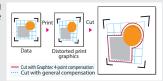
In Print & Cut operation, the cutting data is automatically selected from USB flash memory by scanning the barcode printed on the media then performs contour cutting. This prevents the usage of incorrect data, and improves work efficiency.



■ Enhanced ARMS (Advanced Registration Mark Sensing system) for improved productivity of P&C applications

Four-point compensation Precise cutting even of distorted printed graphics

This feature compensates for any skewing or distortion in printed graphics to ensure precise contour cutting.



Supported by standard crop marks - special marks are not required for cutting

P&C is performed by printing the industry standard crop marks. Adding special marks with Graphtec software is not necessary. Operation is simple when crop mark information is entered within **Cutting Master 4** software.



Cutting Master 4
 Graphtec Pro Studio
 Graphtec Pro Studio Plus

Supported Software

Reverse side Cutting/Creasing using ARMS

Cutting and creasing of printed graphics is possible even on the reverse side of the media. This prevents any scratches or damage to the printed graphic. On the FCX Series, operation is simple using **Cutting Master 4** or **Graphtec Pro Studio.**

Automatic ARMS Sensitivity Adjustment

Marks are detectable when there is reasonable contrast against the background. For example, a white mark on a colored background.

ARMS Copy function

After data is sent the first time, it can be copied multiple times without a PC. In the FCX Series, the first four marks are scanned on the first sheet, and only the first mark in subsequent sheets. This improves productivity by shortening scan detection time.

Expanded cutting area

This function expands the cutting area to include objects outside of the area enclosed by registration marks. Production efficiency is enhanced by reducing media waste.



Improved application software

The cutting plotter is ready for use with the supported software, with other advanced features available via plug-ins and optional software.

plug-in software

Cutting Master 4



Cutting Master 4 is Graphtec plug-in software for Adobe Illustrator and CorelDRAW Graphics Suite. It sends cut data to the plotter and includes a variety of functions such as: preview, registration mark creation, tool conditions, cut job settings and more. Cutting Master 4 is easy to use and enables you to get the best performance from your plotter.



design software Graphtec Pro Studio

Win

Easy-to-use application software for creating original designs. It has enhanced functions such as auto-shapes, shading, and editing functions. It can also configure the cutting conditions and other settings on the plotter. Importing of EPS, Ai*, CMX*, and PDF* file types are supported. Graphics created with other popular design software can be imported into the software.
* It is available on the Graphtec Pro Studio

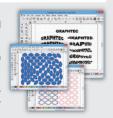


Included Graphtec Studio

Advanced software

Option Graphtec Pro Studio Plus

Graphtec Pro Studio Plus is the enhanced edition of Graphtec Pro Studio. It is optional software with functions for improving productivity and advanced design. Additional functions include: transformation of characters and graphics, automatic sequence number insertion, barcode creation, templates for rhinestone creation, nesting, directional change of cutting lines, changing cutting order, and more.

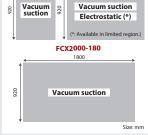


NEW LINEUP Limited Edition Software

- Graphtec Pro Studio Plus for Rhinestone
- Graphtec Pro Studio Plus for Auto Nesting

Table size and Media hold-down method

FCX2000 Series FCX4000 Series FCX2000-60 FCX2000-120 FCX4000-50ES 610 1200



Vacuum suction system

Holds media using external pump (blower). This option is most suitable for heavy or thicker materials.

■ Electrostatic adsorption system

Holds media by electrostatic that is generated by electrodes arranged inside the panel. This option is most suitable for cutting light weight materials.



■ Electrostatic adsorption system In the FCX4000, assuming use in offices and small shop, The electrostatic adsorption system is adopted for both model, which makes less noise than other method such as vacuum suction system during the operation.

■ Cling mat system

Further, By using the optional cling mat, it is also possible to cut media that can not be securely fixed by the electrostatic adsorption

Provided tools suitable for many applications

Creasing / scoring tool

PM-CT-002 is a new tool. This reduces peeling and cracking on the printed surface during the creasing/scoring process compared to our existing models.

For FCX2000 Seri For curves on he (PM-CT-002)

Loupe for cutting blade

The Loupe is a standard accessory used to easily adjust extruded blade length with the PHP33 and



Specificatio	ons								
Model name		FCX2000-60VC	FCX2000-120VC	FCX2000-180VC	FCX2000-120ES (*1)	FCX4000-50ES	FCX4000-60ES		
Configuration		Digital servo system, Flatbed							
Media hold-dowr	d-down method Vacuum suction Electrostatic panel					Electrostatic panel			
Effective cutting	area	610 mm x 920 mm	1200 mm x 920 mm	1800 mm x 920 mm	1200 mm x 920 mm	660mm×488mm	976mm×660mm		
Mountable media	a (Y-axis)	950 mm (37.4 inch) 536 mm (21.1 inch) 708 mm (27.9 inch)							
Roll media suppo	ort	Roll media stocker (manual feeding), supported media; width: up to 950 mm, weight: up to 5 kg N/A							
Maximum cutting	g speed	400 mm/s (1 to 40 cm/s in 16 steps), in all directions 750mm/s(1 to 75 cm/s in 23 steps), in all directions							
Cutting force		Tool 1: Max. 4.9 N (500 gf), Tool 2: Max. 9.8 N (1 kgf) Tool 1: Max. 5.88 N (600 gf), Tool 2: M							
Cutting force sett	tings	Tool 1: in 40 steps, Tool 2: in 40 steps Tool 1: in 48 steps, Tool 2: in 48 steps, Tool 2: in 48 steps							
Minimum charac	ter height	Approx. 3 mm square(Approx. 0.12 inch) (varies with character font and media) Under conditions specified by Graphtec							
Programmable re	esolution	GP-GL mode: 0.1/0.05/0.025/0.01 mm, HP-GL™: 0.025 mm							
Distance accurac	y(*2)(*11)	Max. 0.1% of the distance moved or 0.1 mm, whichever is larger (Value after distance correction)							
Perpendicularity((*11)	Max 0.5 mm / 900 mm Max 0.3 mm / 430 mm							
Repeatability (*2))(*11)	Max 0.1 mm							
Display		Graphic type LCD (240 dots x 128 dots), supports Japanese, English and Chinese							
Standard interfac	ces	USB2.0 / RS-232C / Ethernet(10BAS	E-T/100BASE-TX)						
Command sets		GP-GL and HP-GL™ emulation (set	by menu, or selects automatically by r	eceived data)					
Number of tools		2 tools							
Cutting blade, pen,	and tool types	Cutting blade (supersteel), Pens (W	ater-based fiber-tip pen, oil-based ba	Ilpoint pen), and Creasing/scoring to	ool Cutting blade (supersteel), Pens (W	ater-based fiber-tip pen), and Creasing/sco	ring tool(*10)		
Power source		100 to 240 V AC, 50/60 Hz (Auto sw	ritching)						
Power consumption		Max. 140 VA Max. 120 VA							
Operating enviro	nment	Temperature: +10 to +35 °C, Humi	dity: 35% to 75% RH (non-condensing)					
Guaranteed accurac	cy environment	Temperature: +16 to +32 °C, Humi	dity: 35% to 70% RH (non-condensing)					
External dimension	ons	1344 x 1409 x 930 mm	1934 x 1409 x 930 mm	2534 x 1409 x 930 mm	1934 x 1409 x 930 mm	1089 x 897 x 204 mm	1405 x 1069 x 204 mm		
[W x D x H] (Appr	rox.)	(Including stand)	(Including stand)	(Including stand)	(Including stand)		(1405 x 1097 x 895 mm including stand)		
Weight (Approx.))	76 kg (Including stand) (*3)	99 kg (Including stand) (*3)	116 kg (Including stand) (*3)	93 kg (Including stand)	29kg	38kg (including stand : 55kg)		
Compatible OS (*	*4)	Windows 10 / 8.1 , Mac OS X 10.7 to	10.11 / macOS 10.12 (Sierra) to 11 (Bi	ig Sur)					
Supported	Standard	Graphtec Pro Studio(Win), Graphtec Studio(Mac), Cutting Master4(Win/Mac)							
software (*5)	Optional	Graphtec Pro Studio Plus (Win), Graphtec Pro Studio Plus for Rhinestone (Win), Graphtec Pro Studio Plus for Auto Nesting (Win)							
Compatible	Safety	UL/cUL, CE marking							
Standards	EMC	FCC Class A , CE marking, VCCI Clas	s A						

Media t	/pe ○:Avail		FCX2000 Series				FCX4000 Series		
Type of media		Thickness	Support cutting blade	60VC	120VC	180VC	120ES	50ES	60ES
Self-adhesive marking film (vinyl, fluorescent, reflective)		up to 0.25 mm	CB09UB, CB09-P	0	0	0	0	0	0
Heavy paper/board		up to 0.5 mm	CB15U-5, CB15U-K30	0	0	0	0	0	0
(pattern paper, oil board)		up to 1.0 mm	CB15U-5, CB30UC	0	0	0	0	△(*9)	△(*9)
Compressed foam sheet		up to 0.8 mm	CB15U-K30	0	0	0		0	0
Sandblast resist rubber		up to 1.0 mm	CB15U-K30	0	0	0	0	0	0
	E flute	up to 1.5 mm	CB30UC (*6)	0	0	0	0		
Cardboard	F/G flute	up to 1.2 mm	CB15U-K30	0	0	0	0	0	0
			CB30UC	0	0	0	0		
Rubber sheet		up to 2.0 mm	PM-CB-001 (*6)	0	0	0			
Clear sheet for plastic boxes		up to 1.0 mm	CB15U-5	0	0	0	0	0	0
		up to 0.5 mm	CB15U-K30	0	0	0	0	0	0
High-intensity reflective film		up to 1.0 mm	CB15UA	0	0	0		0	0
		up to 0.5 mm	CB15UA-K30	0	0	0		0	0

ltem	Part number	FCX2000 Series	FCX4000 Series	Description	Package	
Cutting blade	PHP33-CB09N-HS	0	0	For CB09U series blade	1 set / pack	
holder	PHP33-CB15N-HS	0	0	For CB15U series blade	1 set / pack	
	PHP35-CB09-HS	0	0	For CB09U series blade	1 set / pacl	
	PHP35-CB15-HS	0	0	For CB15U series blade	1 set / pacl	
	PM-CH-001	0		For CB30UC / PM-CB-001 cutting blade	1 set / pack	
Cutting blade	CB09-P	0	0	0.9mm dia. 45°, Supersteel	5 blades / pack	
	CB09UB-5	0	0	0.9mm dia. 45°, Supersteel	5 blades / pack	
	CB09UB-K60-5	0	0	0.9mm dia. 60°, for thin film	5 blades / pack	
	CB15U-5	0	0	1.5mm dia. 45°, for thick film	5 blades / pack	
	CB15U-K30-5	0	0	1.5mm dia. 30°, for sandblast resist rubber	5 blades / pacl	
	CB15UA-5	0	0	1.5mm dia. 45°, for high intensity reflective film	5 blades / pacl	
	CB15UA-K30-5	0	0	3.0mm dia. 30°, for high intensity reflective film	5 blades / pacl	
	CB30UC-1 (*6)	0		3.0mm dia. 45°, for cardboard (E flute)	1 blade / pacl	
	PM-CB-001 (*6)	0		3.0mm dia. 30°, for rubber sheet	2 blades / pacl	
Loupe	PM-CT-001	0	0	Checking blade length, for PHP33 and PHP35 series	1 set / pack	
Creasing/	CP-001	0	0	Stick type, for heavy paper		
Scoring tool	CP-002	0		Roller type (R0.2), for heavy paper	1 set / pacl	
	CP-003	0		Roller type (R0.6), for cardboard	1 set / pacl	
	PM-CT-002	0	0	Ball on tip of stick, for heavy paper	1 set / pacl	
Fiber-tip pen,	KF700-BK	0	0	Water-based fiber-tip pen, Black	10 pens / pacl	
pen holder	KF700-RD	0	0	Water-based fiber-tip pen, Red	10 pens / pack	
	PHP31-FIBER	0	0	Pen holder for KF700 series pen	1 set / pacl	
Adhesive sheet,	CM-0003-R1A	0	0	Adhesive sheet, supplying in roll (size 545 mm x 20 m)	1 roll / pacl	
Cling mat	CM-0004	0	0	Cling mat for film based materials, size 435 x 610 mm	2 sheets / pacl	
	CM-0005	0	0	Cling mat for paper based materials, size 435 x 610 mm	2 sheets / pacl	
	PM-CM-001	0	0	Cling mat for film based type material, size 660 mm x 488 mm	2 sheets / pacl	
	PM-CM-002	0	0	Cling mat for paper based type material, size 660 mm x 488 mm	2 sheets / pacl	
Protect Sheet	PM-CR-002A		0	For FCX4000-50ES. Transparent vinyl, thickness 0.3 mm.	1 sheet / pacl	
	PM-CR-003A		0	For FCX4000-60ES. Transparent vinyl, thickness 0.3 mm.	1 sheet / pacl	
	PM-CR-004A	0		For FCX2000-120ES. Transparent vinyl, thickness 0.3 mm.	1 sheet / pacl	

	es					
FCX2000 series			*Please read Cutter Blade Manual before use.			
Item	Q'ty	_	escription			
Power cord	1	The typ	pe of cord is different by destination			
Cutting blade holder	1	-	P35-CB15-HS			
Cutting blade	1	CB15U	-2,CB15U-K30-5			
Loupe	1	PM-CT-	-001 (for checking the extruded length of blade)			
Pen holder	1	PHP31				
Water-based fiber-tip pen	1	KF700-	BK (Black)			
Height adjustment tool	1		usting position of tool head (plate, key wrench)			
Protect Sheet	1	PM-CR	-004A for ES models only			
USB cable	1	Length				
Roll media stocker	1	Loadak	ole media: width up to 950 mm, weight up to 5 kg			
Stand	1	Legs of	the stand (Connecting bar is packed with main unit)			
DVD-ROM	1	User's n	nanual (PDF),Cutter blade manual,Windows driver (OPS662			
		Cutting	g Master 4			
		(plug-in	(plug-in software for Illustrator/CorelDRAW in Windows, Illustrator in Mac),			
		Grapht	Graphtec Pro Studio (design software for Windows),			
		Grapht	ec STUDIO (Design software for Mac),			
Printed document	1	Quick guide, Usage Precautions, Safety manual				
Durable flexible hose	1	For VC	models only, 1.5 to 5 m (shrinked/extended)			
		Conne	ction bore diameter: 50mm			
Hose band	2	For VC models only, to fix the hose				
FCX4000 series		*Please read Cutter Blade Manual before use.				
Item	Q'ty	Description				
Power cord	1	The typ	pe of cord is different by destination			
Cutting blade holder	1	PHP33	-CB15N-HS			
Cutting blade	1	CB15U-1				
Loupe	1	PM-CT-001 (for checking the extruded length of blade)				
Pen holder	1	PHP31	-FIBER			
Water-based fiber-tip pen	1	KF700-BK (Black)				
Protect Sheet	1	PM-CR-002A for FCX4000-50ES / PM-CR-003A for FCX4000-60ES				
USB cable	1	Length 2.9 m				
DVD-ROM	1	User's manual (PDF),Cutter blade manual, Windows driver				
		I	Cutting Master 4			
			q-in software for Illustrator/CorelDRAW in Windows, Illustrator in Ma			
		Graphtec Pro Studio (design software for Windows),				
			ec STUDIO (Design software for Mac)			
Printed documents	1	Quick guide, Usage Precautions, Safety manual				
Option						
	Part nur	nher	Description			
	Part number OPH-A35		10 mm vacuum hole pitch for FCX2000-60VC			
	OPH-A35		10 mm vacuum noie pitch for FCX2000-80VC 10 mm vacuum hole pitch for FCX2000-120VC			
	OPH-A36		10 mm vacuum hole pitch for FCX2000-120VC			
	OPH-A37 OPS682-PLS		'			
			Design software including all advanced functions. (1 lice			
	OPS682-RSF		Limited edition of rhinestone function only as			
for Rhinestone	005500 4417		an advanced functions. (1 license)			
Graphtec Pro Studio Plus	OPS682-ANF		Limited edition of auto nesting function only as			
for Auto Nesting			an advanced functions. (1 license)			

- 1. Available in a limited region. Please contact your local representative of Graphtec. "2When operated with Graphtec specified media and conditions."
 3 Pump (blower) for vacuum suction media hold-down system is not included. "4 Please check the website or contact your local representative of Graphtec. Graphtec does not support software/driver used with operating systems that have become obsolete and are no longer supported by the OS developer. In the Windows 7, edition of Ultimate, Enterprise, Professional and Home Premium are supported.

 5 UB30UC is not available for FC4000 series. "1 Recommend to use with Adhesive Sheet or Cling mat." 11 excluding contraction of media, in plotting/cutting mod of media, in plotting cutting mod of media, in pl
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- Before using it, please read the user manual and then please use it properly in accordance with the description.
 To avoid an occurrence of malfunction or an electric shock by leakage, please ensure ground connection and use it in specified power source.



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