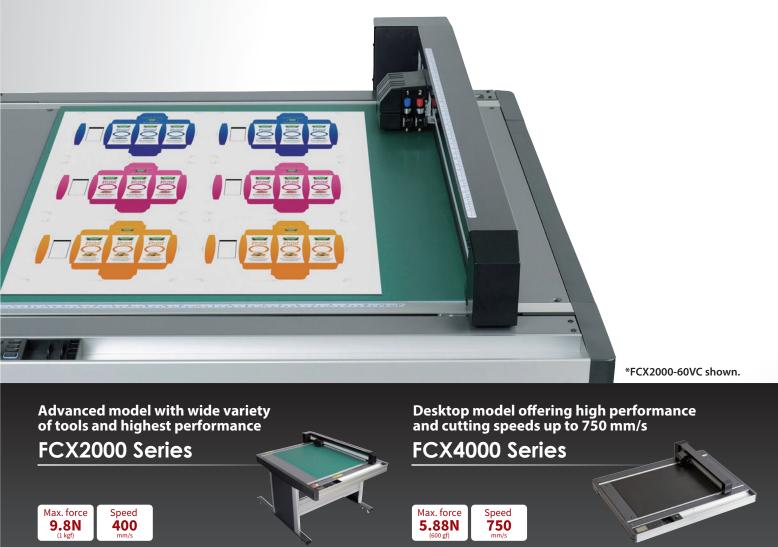
GRAPHTEC

Flatbed Cutting Plotters



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.



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
FCX2000-120ES	(* FCX2000-120 ES is availa	able in limited

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.

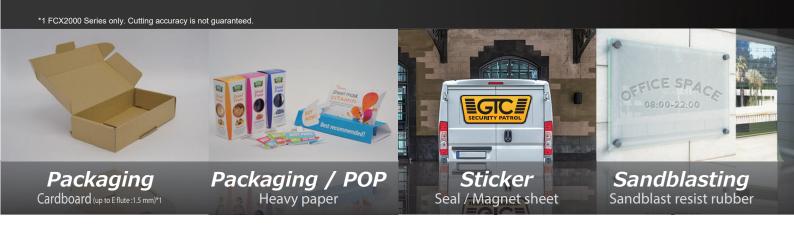
FCX4000-50ES FCX4000-60ES

www.graphteccorp.com

-180VC

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.



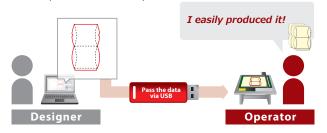
Enhanced functions for higher productivity and work efficiency

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.

Supported Software • Cutting Master 4 • Graphtec Pro Studio • Graphtec Pro Studio Plus

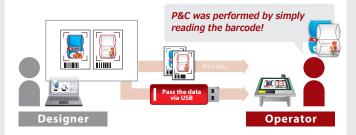
Offline operation using USB flash memory

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.



Data management using barcode function with USB flash memory

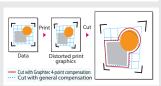
In Print & Cut operation, the cutting data is automatically selected from USB flash memory by scanning the barcode printed on the media then performs contour cutting. This prevents the usage of incorrect data, and improves work efficiency.



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.



Reverse side Cutting/Creasing using ARMS

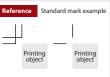
Cutting and creasing of printed graphics is possible even on the reverse side of the media. This prevents any scratches or damage to the printed graphic. On the FCX Series, operation is simple using **Cutting Master 4** or **Graphtec Pro Studio.**

Automatic ARMS Sensitivity Adjustment

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

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.



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 CoreIDRAW 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.



Win

Graphics design software Graphtec Pro Studio

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.



For MAC OS user
Included Graphtec Studio

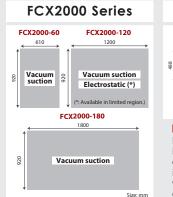


Graphtec Pro Studio Plus is the enhanced edition of Graphtec Pro Studio. It is optional software with functions for improving productivity and advanced design. Additional functions include: transformation of characters and graphics, automatic sequence number insertion, barcode creation, templates for 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





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 system.

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 Series



Loupe for cutting blade

The Loupe is a standard accessory used to easily adjust extruded blade length with the PHP33 and PHP35 blade holders.



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	n method	Vacuum suction Electrostatic panel Electrostatic panel						
Effective cutting a	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 al	directions	
Cutting force		Tool 1: Max. 4.9 N (500 gf), Tool 2: N	1ax. 9.8 N (1 kgf)			Tool 1:Max. 5.88 N (600 gf), Tool 2:Max.	5.88 N (600 gf)	
Cutting force sett	tings	Tool 1: in 40 steps, Tool 2: in 40 step	DS			Tool 1: in 48 steps, Tool 2: in 48 steps		
Minimum charact	ter height	Approx. 3 mm square(Approx. 0.12	inch) (varies with character font and r	media) Under conditions specified by	Graphtec			
Programmable re	esolution	GP-GL mode: 0.1/0.05/0.025/0.01 m	nm, HP-GL™: 0.025 mm					
Distance accuracy	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 0.4 mm / 600						
Repeatability (*2))(*11)	Max 0.1 mm						
Display		Graphic type LCD (240 dots x 128 dots), supports Japanese, English and Chinese						
Standard interfac	es.	USB2.0 / R5-232C / Ethernet(10BASE-T/100BASE-TX)						
Command sets		GP-GL and HP-GL [™] emulation (set by menu, or selects automatically by received data)						
Number of tools		2 tools						
Cutting blade, pen, a	and tool types	Cutting blade (supersteel), Pens (W	ater-based fiber-tip pen, oil-based bal	llpoint pen), and Creasing/scoring too	Cutting blade (supersteel), Pens (W	ater-based fiber-tip pen), and Creasing/scor	ing tool(*10)	
Power source		100 to 240 V AC, 50/60 Hz (Auto sw	itching)					
Power consumpti	ion	Max. 140 VA Max. 120 VA						
Operating environ	nment	Temperature: +10 to +35 °C, Humidity: 35% to 75% RH (non-condensing)						
Guaranteed accuracy	y environment	Temperature: +16 to +32 °C, Humidity: 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] (Appre	ox.)	(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 11 /10 / 8.1 , Mac OS X 10	.10 ~10.11 / macOS 10.12 ~ 12(Cuttin	ng Master 4: 10.9~)				
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 Class	s A					

Media type \bigcirc : Available \triangle : Limited					FCX2000 Series				FCX4000 Series	
Type of media Thickness Support cutting bla				60VC	120VC	180VC	120ES	50ES	60ES	
	e marking film scent, reflective)	up to 0.25 mm	CB09UB, CB09-P	0	0	0	0	0	0	
Heavy pape	r/board	up to 0.5 mm	CB15U-5, CB15U-K30	0	0	0	0	0	0	
(pattern pap	er, oil board)	up to 1.0 mm	CB15U-5, CB30UC	0	0	0	0	∆(*9)	∆(*9)	
Compressed	l foam sheet	up to 0.8 mm	CB15U-K30	0	0	0		0	0	
Sandblast re	sist 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	E/C Auto		CB15U-K30	0	0	0	0	0	0	
	F/G flute	up to 1.2 mm	CB30UC	0	0	0	0			
Rubber shee	et	up to 2.0 mm	PM-CB-001 (*6)	0	0	0				
Classicherst	Clear sheet for plastic boxes up		CB15U-5	0	0	0	0	0	0	
Clear sheet i			CB15U-K30	0	0	0	0	0	0	
Link intensi	ity rofloctive film	up to 1.0 mm	CB15UA	0	0	0		0	0	
nigh-Intens	ity reflective film	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 / pac
holder	PHP33-CB15N-HS	0	0	For CB15U series blade	1 set / pac
	PHP35-CB09-HS	0	0	For CB09U series blade	1 set / pac
	PHP35-CB15-HS	0	0	For CB15U series blade	1 set / pac
	PM-CH-001	0		For CB30UC / PM-CB-001 cutting blade	1 set / pac
Cutting blade	CB09-P	0	0	0.9mm dia. 45°, Supersteel	5 blades / pac
	CB09UB-5	0	0	0.9mm dia. 45°, Supersteel	5 blades / pac
	CB09UB-K60-5	0	0	0.9mm dia. 60°, for thin film	5 blades / pac
	CB15U-5	0	0	1.5mm dia. 45°, for thick film	5 blades / pac
	CB15U-K30-5	0	0	1.5mm dia. 30°, for sandblast resist rubber	5 blades / pac
	CB15UA-5	0	0	1.5mm dia. 45°, for high intensity reflective film	5 blades / pac
	CB15UA-K30-5	0	0	3.0mm dia. 30°, for high intensity reflective film	5 blades / pac
	CB30UC-1 (*6)	0		3.0mm dia. 45°, for cardboard (E flute)	1 blade / pac
	PM-CB-001 (*6)	0		3.0mm dia. 30°, for rubber sheet	2 blades / pac
Loupe	PM-CT-001	0	0	Checking blade length, for PHP33 and PHP35 series	1 set / pac
Creasing/	CP-001	0	0	Stick type, for heavy paper	
Scoring tool CP-002		0		Roller type (R0.2), for heavy paper	1 set / pac
	CP-003	0		Roller type (R0.6), for cardboard	1 set / pac
	PM-CT-002	0	0	Ball on tip of stick, for heavy paper	1 set / pac
Fiber-tip pen,	KF700-BK	0	0	Water-based fiber-tip pen, Black	10 pens / pac
pen holder	KF700-RD	0	0	Water-based fiber-tip pen, Red	10 pens / pac
	PHP31-FIBER	0	0	Pen holder for KF700 series pen	1 set / pac
Adhesive sheet,	CM-0003-R1A	0	0	Adhesive sheet, supplying in roll (size 545 mm x 20 m)	1 roll / pac
Cling mat	CM-0004	0	0	Cling mat for film based materials, size 435 x 610 mm	2 sheets / pac
	CM-0005	0	0	Cling mat for paper based materials, size 435 x 610 mm	2 sheets / pac
	PM-CM-001	0	0	Cling mat for film based type material, size 660 mm x 488 mm	2 sheets / pac
	PM-CM-002	0	0	Cling mat for paper based type material, size 660 mm x 488 mm	2 sheets / pac
Protect Sheet	PM-CR-002A		0	For FCX4000-50ES. Transparent vinyl, thickness 0.3 mm.	1 sheet / pac
	PM-CR-003A		0	For FCX4000-60ES. Transparent vinyl, thickness 0.3 mm.	1 sheet / pac
	PM-CR-004A	0		For FCX2000-120ES. Transparent vinyl, thickness 0.3 mm.	1 sheet / pac

Standard accesso	res					
FCX2000 series			*Please read Cutter Blade Manual before use.			
Item	Q'ty	Description				
Power cord	1	The ty	pe of cord is different by destination			
Cutting blade holder	1	PHP35	-CB15-HS			
Cutting blade	1	CB15U	CB15U-2,CB15U-K30-5			
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)			
Height adjustment tool	1	For adj	usting position of tool head (plate, key wrench)			
Protect Sheet	1	PM-CR	-004A for ES models only			
USB cable	1	Length	2.9 m			
Roll media stocker	1	Loadal	ble media: width up to 950 mm, weight up to 5 kg			
Stand	1		the stand (Connecting bar is packed with main unit)			
DVD-ROM	1	-	nanual (PDF),Cutter blade manual,Windows driver (OPS662)			
			a Master 4			
			software for Illustrator/CorelDRAW in Windows, Illustrator in Mac),			
			ec Pro Studio (design software for Windows),			
			ec STUDIO (Design software for Mac),			
Printed document	1		quide, Usage Precautions, Safety manual			
Durable flexible hose	1		models only, 1.5 to 5 m (shrinked/extended)			
Durable riexible riose			onnection bore diameter: 50mm			
Hose band	2		models only, to fix the hose			
	2	For VC				
FCX4000 series		Descri	*Please read Cutter Blade Manual before use.			
Power cord	Q'ty					
Cutting blade holder	1	The type of cord is different by destination				
	1	PHP33-CB15N-HS CB15U-1				
Cutting blade	1					
Loupe		-	-001 (for checking the extruded length of blade)			
Pen holder	1	PHP31				
Water-based fiber-tip pen	1	-	BK (Black)			
Protect Sheet	1		002A for FCX4000-50ES / PM-CR-003A for FCX4000-60ES			
USB cable	1	Length				
DVD-ROM	1		nanual (PDF),Cutter blade manual, Windows driver (OPS662			
			g Master 4			
			software for Illustrator/CorelDRAW in Windows, Illustrator in Mac			
			Graphtec Pro Studio (design software for Windows),			
		· ·	Graphtec STUDIO (Design software for Mac)			
Printed documents	1	Quick	guide, Usage Precautions,Safety manual			
Option						
ltem	Part nun	nber	Description			
Panel for	OPH-A3	5	10 mm vacuum hole pitch for FCX2000-60VC			
	OPH-A3	6	10 mm vacuum hole pitch for FCX2000-120VC			
VC model (*7)	OPH-A37		10 mm vacuum hole pitch for FCX2000-180VC			
VC model (*7)	OPH-A3	7	To min vacuum noic pitem of r cx2000 100 v c			
	OPH-A3 OPS682-					
Graphtec Pro Studio Plus		PLS				
Graphtec Pro Studio Plus Graphtec Pro Studio Plus	OPS682-	PLS	Design software including all advanced functions. (1 licens Limited edition of rhinestone function only as			
Graphtec Pro Studio Plus Graphtec Pro Studio Plus for Rhinestone	OPS682-	-PLS -RSF	Design software including all advanced functions. (1 licens Limited edition of rhinestone function only as an advanced functions. (1 license)			
Graphtec Pro Studio Plus Graphtec Pro Studio Plus for Rhinestone Graphtec Pro Studio Plus	OPS682 OPS682	-PLS -RSF	Design software including all advanced functions. (1 licens Limited edition of rhinestone function only as an advanced functions. (1 license) Limited edition of auto nesting function only as			
VC model (*7) Graphtec Pro Studio Plus Graphtec Pro Studio Plus for Rhinestone Graphtec Pro Studio Plus for Auto Nesting Stand	OPS682 OPS682	-PLS -RSF	Design software including all advanced functions. (1 licens Limited edition of rhinestone function only as an advanced functions. (1 license)			

 **11
 Available in a limited region. Please contact your local representative of Graphtec.
 **20 Warning Light (Optional) (*8)
 OPH-A40
 The component incorporated to FCX2000

 **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.
 **20 Warning Light (Optional) (*8)
 OPH-A40
 The component incorporated to FCX2000

 "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.
 Warning Light (Optional) (*8)
 OPH-A40
 The component incorporated to FCX2000

 "5 The software Grine bused by downloading from Graphtec website.
 *6 Chatting accuracy is not guaranteed. Be sure to try thebric use it.
 *7 Factory installed option.
 *8 For requests of installing a Warning Light on your FCX2000, please contact local representative of use with Adhesive sheet or Cling and *11 excluding contraction of media, in plotting routing mode.
 *8 For requests of installing a Warning Light on your FCX2000, please contact local representative of use with Adhesive sheet or Cling and *11 excluding contraction of media, in plotting routing mode.

Brand names and product names listed in this brochure are the trademarks or registered trademarks of their respective owners.
Items mentioned are subject to change without notice. For more information about product, please check the web site or contact your local representative.



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.

GRAPHTEC Graphtec Corporation

RoHS compliant product

503-10 Shinano-cho, Totsuka-ku, Yokohama 244-8503, Japan

Tel: +81-45-825-6250 Fax: +81-45-825-6396 Email: webinfo@graphtec.co.jp

Website

http://www.graphteccorp.com

FCX2000-4000_JE10813_6D