GRAPHTEC

Flatbed Cutting Plotters

FCX2000 SERIES FCX4000

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.

New

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



Speed 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

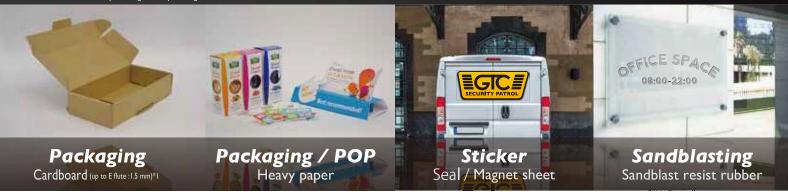
FCX4000-60ES

www.graphteccorp.com

Expanded industrial application

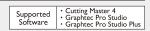
Precision cutting is achieved by enhancements to the rigidity of the moving mechanism reduces deflection due to pressure during cutting. This has enabled new functions succreasing / scoring lines. Graphtec flatbed cutting plotters meet the wide variety of appused in prototyping and short production runs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

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



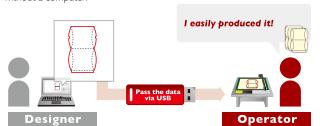
Enhanced functions for higher productivity and work efficiency

■ Offline operation supported by use of USB flash memory



Offline operation using USB flash memory

Plot data is created from the design by using Cutting Master 4 or Graphtec Pro Studio, 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

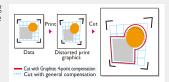
In Print & Cut operation, the cutting data is automatically selected from USB flash memory by scanning the barcode printed on the media then performs contour cutting. This prevents the usage of incorrect data, and improves work efficiency.



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

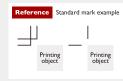
Four-point compensation - Precise cutting even of distorted printed graphics

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



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.



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

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

For MAC OS user

Included Graphtec Studio

Advanced software

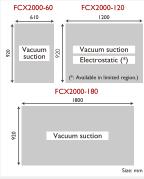
Option Graphtec Pro Studio Plus

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



Table size and Media hold-down method

FCX2000 SERIES FCX4000 SERIES



■ 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

FCX4000-50ES FCX4000-60ES 660 976 A3+ A3+ A3+ A3+ A3+ A3+

■ 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

For curves on heavy pape (PM-CT-002)

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.



Loupe for cutting blade

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





0	Ü						1.0			
Specification	ns		W.	-	10	7	VII EN			
Model name		FCX2000-60VC	FCX2000-120VC	FCX2000-180VC	FCX2000 -120ES (*1)	FCX4000-50ES	FCX4000-60ES			
Configuration	- l	Digital servo system, Flatbed								
Media hold-dowr	n method	Vacuum suction Electrostatic panel Electrostatic panel								
Effective cutting	area	610 mm x 920 mm	1,200 mm x 920 mm	1,800 mm x 920 mm	1,200 mm x 920 mm	660mm×488mm	976mm×660mm			
Mountable media	a (Y-axis)	950 mm				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 ste	ps), in all directions			750 mm/s				
Cutting force		Tool 1: Max. 4.9 N (500 gf)		Tool 1:Max. 5.88 N (600 gf)						
		Tool 2: Max. 9.8 N (1 kgf)		Tool 2:Max. 5.88 N (600 gf)						
Cutting force set	ttings	Tool 1: in 40 steps, Tool 2: in 40 steps Tool 1: in 48 steps, Tool 2: in 48 steps								
Minimum charac	cter size	Approx. 10 mm square (varies with character font and media)								
Programmable re	esolution	GP-GL mode: 0.1/0.05/0.025/0.0	01 mm, HP-GL™: 0.025 mm							
Distance accurac	су	Max. 0.1% of the distance moved	d or 0.1 mm, whichever is larger (in p	Max.0.2% of the distance moved or 0.1mm, whichever is larger						
Perpendicularity	j	Max 0.5 mm / 900 mm (in plotting mode) Max 0.3 mm / 430 mm Max 0.4								
Repeatability		Max 0.1 mm (excluding contraction of media, in plotting/cutting mode) ("2)								
Standard interfac	ces	USB2.0 / RS-232C / Ethernet(10BASE-T/100 BASE-TX)								
Buffer memory))	2 MB								
Command sets	0	GP-GL and HP-GL™ emulation (s	set by menu, or selects automaticall	y by received data)						
Number of tools		2 tools								
Cutting blade, pen, and tool types		Cutting blade (supersteel), Pens (Water-based fiber-tip pen, oil-based	Cutting blade (supersteel), Pens (Water-based fiber-tip pen), and Creasing/scoring to						
Others		ARMS, Reverse side Cutting/Crea	asing using ARMS, ARMS Copy fun	ction, Creasing, Cutting/creasing in	multiple passes,USB Off line, Bar-co	ode				
Power source))	100 to 240 V AC, 50/60 Hz (Auto	switching)			22				
Power consumption		Max. 140 VA		Max.120 VA						
Operating environ	onment	Temperature: +10 to +35 °C, Hur	nidity: 35% to 75% RH (non-conder	nsing)						
Guaranteed accurac	cy environment	Temperature: +16 to +32 ℃, Hur	nidity: 35% to 70% RH (non-conde	nsing)		/=				
External dimension	ions	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] (App	orox.)	(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)	29 kg	38 kg (including stand : 55 kg)			
Compatible OS ((*4)	Windows 10/8.1/8/7, Mac OS X	10.7 to 10.11 / macOS 10.12 (Sierr	a) to 10.13 (High Sierra) (Graphtec	Studio: 10.6-10.13, Cutting Master	4 10.7 -10.13)				
Supported	Standard	Graphtec Pro Studio(Win), Graphtec Studio(Mac), Cutting Master4(Win/Mac)								
software (*5)	0-41	Graphtec Pro Studio Plus (Win)								
	Optional	araprileo i lo oldalo i las (**iii)		UL/dJL, CE mark						
Compatible	Safety									

Mædia type : ∖rvailable					FCX2000 Series				FCX4000 Series	
Tyre of media Thickness			Support cutting blade	RAVC	120VC	1RMVC	120ES	50ES	MES	
Self-adhesive marking film (vinyl, fluorescent, reflective)		up to 0.25 mm	CB09UB	0	0	0	0	0	0	
Heavy paper /board		up to 0.5 mm	CB15U, CB15U-K30	0	0	0	0	0	0	
(pattern paper, oil board)		up to 1.0 mm	CB30UC	0	0	0	0			
Compressed foam sheet		up to 0.8 mm	CB15U-K30	0	0	0		0	0	
Sandblast resist rubber		up to 1.0 mm	CB15U-K20	0	0	0	0	0	0	
E flute		up to 1.5 mm	CB30UC (%)	0	0	0	0			
Cardboard	F/G flute	un to 1 0 mm	CB15U-K30	0	0	0	0	0	0	
		up to 1.2 mm	CB30UC	0	0	0	0			
Rubber sheet		up to 2.0 mm	PM-CB -001 (*6)	0	0	0				
Clear sheet for plastic box es		up to 1.0 mm	CB15U	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	
		up to 0.5 mm	CB15UA-K30	0	0	0		0	0	

Tilgit interioriy re	up to 0.5	mm	CB151	A-K30 0 0	0 0
Supplies (Available				
Item	Part number	FCX2000 Series	FCX4000 Series	Description	Package
Cutting blade	PHP33-CB09N-HS		0	For CB09U series blade	1 set / pacl
holder	PHP33-CB15N-HS		0	For CB15U series blade	1 set / pacl
	PHP35-CB09-HS		0	For CB09U series blade	1 set / pacl
	PHP35-CB15-HS C		0	For CB15U series blade	1 set / pacl
	PM-CH-001	0		For CB30UC cutting blade	1 set / pacl
Cutting blade	CB09UB-5	0	0	0.9mm dia. 45°, Supersteel	5 blades / pacl
	CB09UB-K60-5		0	0.9mm dia. 60°, for thin film	5 blades / pack
	CB15U-5 O		0	1.5mm dia. 45°, for thick film	5 blades / pack
	CB15U-K30-5		0	1.5mm dia. 30°, for sandblast resist rubber	5 blades / pacl
	CB15U-K20-2 SP (0	1.5mm dia. 20°, for sandblast resist rubber	2 blades / pacl
	CB15UA-5		0	1.5mm dia. 45°, for high intensity reflective film	5 blades / pacl
	CB15UA-K30-5	0	0	3.0 mm dia. 45°, for high intensity reflective film	5 blades / pacl
	CB30UC-1 (*6)			30mm dia. 45°, for cardboard (E flute)	1 blade / pacl
	PM-CB -001 (*6)			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 / pacl
Creasing/	CP-001	0	0	Stick type, for heavy paper	1 set / pacl
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
Fibertip pen,	bertip pen, KF700-BK O Water-based fiber-tip p		Water-based fiber-tip pen, Black	10 pens / pacl	
pen holder	KF700-RD	0	0	Water-based fiber-tip pen, Red	10 pens / pacl
	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 / paci
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 / pack
	PM-CM-002	0	0	Cling mat for paper based type material, size 660 mm x 488 mm	2 sheets / pack
Protect Sheet	PM-CR-002		0	For FCX4000 -50ES. Transparent vinyl, thickness 0.3 mm.	1 sheet / pacl
	PM-CR-003		0	For FCX4000-60ES. Transparent vinyl, thickness 0.3 mm.	1 sheet / pacl
	PM-CR-004 O			For FCX2000-120ES. Transparent vinyl, thickness 0.3 mm.	1 sheet / pacl

FCX2000 series						
Item	Q'ty	Descri	Description			
Power cable	1 pc.	The type of cable is different by destination				
Cutting blade holder	1 set	PHP35	5-CB15-HS			
Cutting blade	1 set	CB15l	J (2 blades), CB15U-K30 (5 blades)			
Loupe	1 pc.	PM-C1	F-001, for checking blade length			
Fiber- tip pen	1 set	KF700	I-BK (Black) and PHP31-FIBER (pen holder)			
Height adjustment tool	1 set	For ad	ljusting position of tool head (plate, key wrench)			
Protect Sheet	1 pc.	PM-CF	R-004 for ES models only			
USB cable	1 pc.	Length	1 2 9 m			
Roll media stocker	1 set	Loada	ble media: width up to 950 mm, weight up to 5 kg			
Stand	1 set	Legs o	of the stand (Connecting bar is packed with main ur			
DVD-ROM	1 pc.	User's	manual, Windows driver			
Printed document	1 set	Quick	guide, Safety manual			
Durable flex ible hose	1 pc.	For VC	For VC models only, 1.5 to 5 m (shrinked/ex tended)			
		Connection bore diameter: 50 mm				
Hose band	2 pcs.	For VC	models only, to fix the hose			
FCX4000 series			,			
Item	Q'ty	Description				
Power cord	1 pc.	The type of cord is different by destination				
Cutting blade holder	1 pc.	PHP33-CB15N-HS				
Cutting blade	1 pc.	CB15U-1 (1 pc/pack)				
Loupe	1 pc.	PM-CT-001 (for checking the extruded length of blade)				
Pen holder	1 pc.	PHP31	1-FIBER			
Fiber-tip pen	1 pc.	KF700-BK (Black)				
Protect Sheet	1 pc.	PM-CR	-002 for FCX4000-50ES / PM-CR-003 for FCX4000-60			
USB cable	1 pc.	Length	1 2 9 m			
DVD-ROM	1 set	User's manual (PDF), Windows driver (OPS662),				
		Cutting	g Master 4			
		(plug-in	software for Illustrator/CorelDRAW in Windows, Illustrator in Mad			
		Graph	Graphtec Pro Studio (design software for Windows),			
		Graph	tec STUDIO (Design software for Mac)			
Printed documents	1 set	Quick	guide, Usage Precautions, Cutter Blade Manual			
Option						
Item	Part nui	nber	Description			
Panel for	OPH-A	35	10 mm vacuum hole pitch for FCX2000 -60VC			
VC model (*7)	OPH-A36		10 mm vacuum hole pitch for FCX2000-120VC			
``	OPH-A		10 mm vacuum hole pitch for FCX2000-180VC			
Application Software			Advanced edition of Graphtec Pro Studio			
Software	Studio I					
Stand	ST0113		For FCX4000-60ES			

- Available in a limited region. Please contact your local representative of Graphtec.
 When operated with Graphtec specified media and conditions.
 Pump (blower) for vacuum suction media hold-down system is not included.
 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.
 The software can be used by downloading from Graphtec website.
 Cutting accuracy is not guaranteed. Be sure to try it before use it.
 Factory installed option.

- 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.
- For using equipment in correctly and safely
- 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

Website

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

http://www.graphteccorp.com



