GRAPHTEC

Flatbed Cutting Plotters

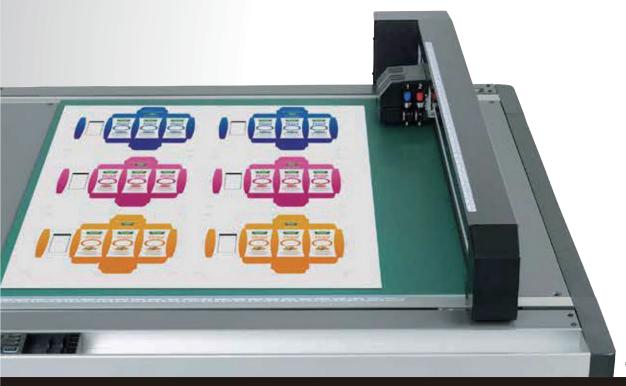
FCX2000 FCX4000 SERIES SERIES

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 mm/s

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

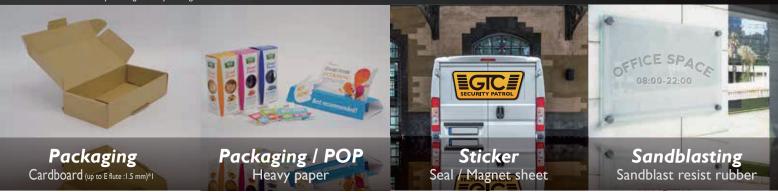
FCX4000-60ES

www.graphteccorp.com

Expanded industrial applications

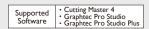
Precision cutting is achieved by enhancements to the rigidity of the moving mechanism that reduces deflection due to pressure during cutting. This has enabled new functions such as curved creasing / scoring lines. Graphtec flatbed cutting plotters meet the wide variety of applications used in prototyping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

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



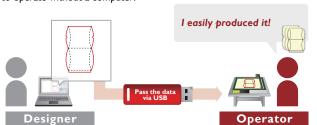
Enhanced functions for higher productivity and work efficiency

Offline operation supported by use of USB flash memory



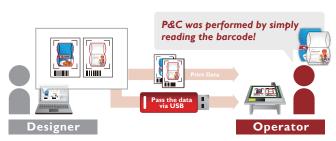
Offline operation using USB flash memory

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

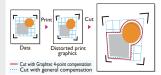
In Print & Cut operation, the cutting data is automatically selected from USB flash memory by scanning the barcode printed on the media then performs contour cutting. This prevents the usage of incorrect data, and improves work efficiency.



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

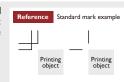
Four-point compensation Precise cutting even of distorted printed graphics

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 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



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 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

FCX2000-60 FCX2000-120 610 1200 Vacuum suction Vacuum suction Electrostatic (*) (*: Available in limited region.) FCX2000-180 1800 920 Vacuum suction

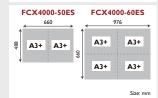
■ Vacuum suction system

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.

FCX4000 Series



■ 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 Serie For curves on heavy paper (PM-CT-002) For cardbo (CP-003)*

Loupe for cutting blade

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



Specific atio	ns									
Model name		FCX2000-60VC	FCX2000-120VC	FCX2000-180VC	FCX2000-120ES (*1)	FCX4000- 5 0ES	FCX4000-60ES			
Configuration		Digital servo system, Flatbed								
Media hold-down	n method	Vacuum suction Electrostatic panel Electrostatic panel								
Effective cutting a	area	610 mm x 9 20 mm	1,200 mm x 9 20 mm	1,800 mm x 9 20 mm	1,200 mm x 9 20 mm	660mm×488mm	97 6mm×660mm			
Mountable media	a (Y-axis)	950 mm				5 36 mm (21.1 inch)	7 08 mm (2 7.9 inch)			
Roll media suppor	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								
Cutting force		Tool 1: Max. 4.9 N (500 gf), Tool 2: N	lax. 9 .8 N (1 kgf)			Tool 1:Max. 5.88 N (600 gf), Tool 2:Max.	5.88 N (600 gf)			
Cutting force setti	tings	Tool 1: in 40 steps, Tool 2: in 40 steps Tool 1: in 48 steps, Tool 2: in 48 steps								
Minimum charact	ter size	Approx. 10 mm square (varies with	Approx. 10 mm square (varies with character font and media)							
Programmable re	esolution	GP-GL mode: 0.1/0.05/0.025/0.01 m	nm, HP-GL™ : 0.02 5 mm							
Distance accuracy	у	Max.0.2% of the distance moved or 0.1	ed or 0.1mm, whichever is larger							
Perpendicularity		Max 0.5 mm / 900 mm (in plotting n	node)			Max 0.3 mm / 430 mm	Max 0.4 mm / 610 mm			
Repeatability		Max 0.1 mm (excluding contraction of media, in plotting/cutting mode) (*2)								
Standard interfac	ces	USB2.0 / RS-232C / Ethernet(10BAS	E-T/100BASE-TX)							
Buffer memory		2 MB								
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 ba	llpoint pen), and Creasing/scoring to	ool Cutting blade (supersteel), Pens (Water-b	ased fiber-tip pen), and Creasing/scoring tool				
Others		ARMS, Reverse side Cutting/Creasin	ng using ARMS, ARMS Copy function, C	creasing, Cutting/creasing in multipl	e passes,USB Off line, Bar-code					
Power source		100 to 240 V AC, 5 0/60 Hz (Auto swi	tching)							
Power consumption		Max. 140 VA Max. 120 VA								
Operating enviror	nment	Temperature: +10 to +35 °C, Humid	lity: 35% to 75% RH (non-condensing)							
Guaranteed accuracy	y environment	Temperature: +16 to +32 °C, Humid	lity: 35% to 70% RH (non-condensing)							
External dimension	ons	1344 x 140 9 x 9 30 mm	1 9 34 x 140 9 x 9 30 mm	2534 x 1409 x 930 mm	1934 x 1409 x 930 mm	108 9 x 8 97 x 204 mm	140 5 x 106 9 x 204 mm			
[W x D x H] (Appro	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)	2 9 kg	38kg (including stand : 55kg)			
Compatible OS (*	4)	Windows 10 / 8.1 / 8 / 7, Mac OS X 1	0.6 to macOS 10.14 (Graphtec Studio :	10.6-10.14, Cutting Master 4 : 10. 7 -1	0.14)					
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 type ○: Available					FCX2000 Series				FCX4000 Series	
Ty pe of medi a		Thickness	Support cutting blade	60VC	120VC	180VC	120ES	50ES	60ES	
Self-adhesive marking film (vinyl, fluorescent, reflective)		up to 0.2 5 mm	CB09UB, CB09-P	0	0	0	0	0	0	
Heavy paper/board		up to 0.5 mm	CB1 5 U, CB1 5 U-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	CB1 5 U-K30	0	0	0		0	0	
Sandblast resist rubber		up to 1.0 mm	CB1 5 U-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	CB1 5 U-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	CB1 5 U	0	0	0	0	0	0	
		up to 0.5 mm	CB1 5 U-K30	0	0	0	0	0	0	
Otale takenes		up to 1.0 mm	CB1 5 UA	0	0	0		0	0	
High-intensity reflective film		up to 0.5 mm	CB1 5 UA-K30	0	0	0		0	0	

	up to 0.31		CD130	A-R30	0
Supplies O	: Available				
Item	Part number	FCX2000 Series	FCX4000 Series	Description	Package
Cutting blade	PHP33-CB09N-HS	0	0	For CB0 9 U series blade	1 set / pack
holder	PHP33-CB1 5 N-HS	0	0	For CB15U series blade	1 set / pack
	PHP3 5 -CB0 9 -HS	0	0	For CB09U series blade	1 set / pack
	PHP3 5 -CB1 5 -HS	0	0	For CB15U series blade	1 set / pack
	PM-CH-001	0		For CB30UC / PM-CB-001 cutting blade	1 set / pack
Cutting blade	CB0 9 -P	0	0	0.9mm dia. 45°, Supersteel	5 blades / pack
	CB0 9 UB- 5	0	0	0.9mm dia. 45°, Supersteel	5 blades / pack
	CB0 9 UB-K60- 5	0	0	0.9mm dia. 60°, for thin film	5 blades / pack
	CB1 5 U- 5	0	0	1.5mm dia. 45°, for thick film	5 blades / pack
	CB1 5 U-K30- 5	0	0	1.5mm dia. 30°, for sandblast resist rubber	5 blades / pack
	CB1 5 UA- 5	0	0	1.5mm dia. 45°, for high intensity reflective film	5 blades / pack
	CB1 5 UA-K30- 5	0	0	3.0mm dia. 30°, for high intensity reflective film	5 blades / pack
	CB30UC-1 (*6)	0		3.0mm dia. 45°, for cardboard (E flute)	1 blade / pack
	PM-CB-001 (*6)	0		3.0mm dia. 30°, for rubber sheet	2 blades / pack
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	1 set / pack
Scoring tool	CP-002	0		Roller type (R0.2), for heavy paper	1 set / pack
	CP-003	0		Roller type (R0.6), for cardboard	1 set / pack
	PM-CT-002	0	0	Ball on tip of stick, for heavy paper	1 set / pack
Fiber-tip pen,	KF 7 00-BK	0	0	Water-based fiber-tip pen, Black	10 pens / pack
pen holder	KF 7 00-RD	0	0	Water-based fiber-tip pen, Red	10 pens / pack
	PHP31-FIBER	0	0	Pen holder for KF 7 00 series pen	1 set / pack
Adhesive sheet,	CM-0003-R1A	0	0	Adhesive sheet, supplying in roll (size 545 mm x 20 m)	1 roll / pack
Cling mat	CM-0004	0	0	Cling mat for film based materials, size 435 x 610 mm	2 sheets / pack
	CM-000 5	0	0	Cling mat for paper based materials, size 435 x 610 mm	2 sheets / pack
	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- 5 0ES. Transparent vinyl, thickness 0.3 mm.	1 sheet / pack
	PM-CR-003		0	For FCX4000-60ES. Transparent vinyl, thickness 0.3 mm.	1 sheet / pack
	PM-CR-004	0		For FCX2000-120ES. Transparent vinyl, thickness 0.3 mm.	1 sheet / pack

Sta nd ard accesso	ries						
FCX2000 series							
tem	Q'ty	Description					
Power cable	1 pc.	The type of cable is different by destination					
Cutting blade holder	1 set	PHP35-CB15-HS					
Cutting blade	1 set	CB1 5 U	CB15U (2 blades), CB15U-K30 (5 blades)				
Loupe	1 pc.	PM-CT	-001, for checking blade length				
Fiber-tip pen	1 set	KF 7 00	-BK (Black) and PHP31-FIBER (pen holder)				
Height adjustment tool	1 set	For ad	justing position of tool head (plate, key wrench)				
Protect Sheet	1 pc.	PM-CR	-004 for ES models only				
JSB 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 of	the stand (Connecting bar is packed with main unit)				
DVD-ROM	1 pc.	User's	manual (PDF), Windows driver (OPS662),				
		Cuttin	g Master 4				
		(plug-in	software for Illustrator/CorelDRAW in Windows, Illustrator in Mac),				
		Graph	tec Pro Studio (design software for Windows),				
		Graph	tec STUDIO (Design software for Mac)				
Printed document	1 set	Quick guide, Safety manual					
Durable flexible hose	1 pc.	For VC	For VC models only, 1.5 to 5 m (shrinked/extended)				
		Conne	Connection bore diameter: 50mm				
Hose band	2 pcs.	For VC	For VC models only, to fix the hose				
FCX4000 series							
tem	Q'ty	Descri	Description				
Power cord	1 pc.	The ty	The type of cord is different by destination				
Cutting blade holder	1 pc.	PHP33	-CB1 5 N-HS				
Cutting blade	1 pc.	CB1 5 U	-1 (1 pc/pack)				
Loupe	1 pc.	PM-CT	-001 (for checking the extruded length of blade)				
Pen holder	1 pc.	PHP31	-FIBER				
Fiber-tip pen	1 pc.	KF 7 00-	-BK (Black)				
Protect Sheet	1 pc.	PM-CR-	I-CR-002 for FCX4000- 5 0ES / PM-CR-003 for FCX4000-60ES				
JSB cable	1 pc.	Length 2.9 m					
DVD-ROM	1 set	1 set User's manual (PDF), Windows driver (OPS662),					
		Cutting	g Master 4				
		(plug-in	software for Illustrator/CorelDRAW in Windows, Illustrator in Mac),				
		Graph	Graphtec Pro Studio (design software for Windows),				
		Graph	tec STUDIO (Design software for Mac)				
Printed documents	1 set	Quick	Quick guide, Usage Precautions, Cutter Blade Manual				
Option							
tem	Part nur	mber	Description				
Panel for	OPH-A3	5	10 mm vacuum hole pitch for FCX2000-60VC				
/C model (* 7)	OPH-A36		10 mm vacuum hole pitch for FCX2000-120VC				
	OPH-A3	7	10 mm vacuum hole pitch for FCX2000-180VC				
Graphtec Pro Studio Plus	OPS682	-PLS	Design software including all advanced functions. (1 license)				
	OPS682	-RSF	Limited edition of rhinestone function only as				
Graphtec Pro Studio Plus			an advanced functions. (1 license)				
•							
for Rhinestone	OPS682	-ANF	Limited edition of auto nesting function only as				
Graphtec Pro Studio Plus for Rhinestone Graphtec Pro Studio Plus for Auto Nesting	OPS682	-ANF	Limited edition of auto nesting function only as an advanced functions. (1 license)				
Graphtec Pro Studio Plus	OPS682-PLS OPS682-RSF OPS682-ANF ST0113		Limited edition of rhinestone function only as				

- 1 Available in a limited region. Please contact your local representative of Graphtec *2 When 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.
 4 Please check the website or contact your local representative of Graphtec.
 5 The software can be used by downloading from Graphtec website. *6 Cutting accuracy is not guaranteed. Be sure to try it before use it. *7 Factory installed option. *8 For requests of installing a Warning Light on your FCX000, please contact local representative of use of the contract your please contact the contract your please contact your please contact the contract your please contact your please your please your please you please your please your please your please you please contact your please contact your please your plea
- 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.



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