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

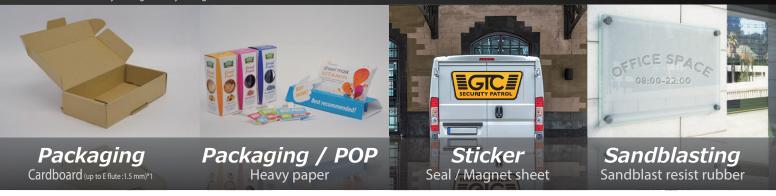
FCX4000-60ES

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.

Supported Software Graphtec Studio 2

· Cutting Master 5

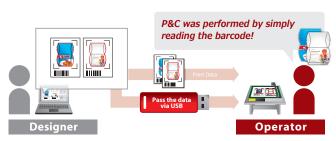
Offline operation using USB flash memory

Plot data is created from the design by using Cutting Master 5 or Graphtec Studio 2, 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

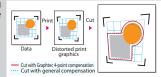
In Print & Cut operation, the cutting data is automatically selected from USB flash memory by scanning the barcode printed on the media then performs contour cutting. This prevents the usage of incorrect data, and improves work efficiency.



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

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

or distortion in printed graphics to ensure precise contour cutting.



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

standard crop marks. Adding special marks with Graphtec software is not necessary. Operation is simple when crop mark information is entered within Cutting Master 5 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 5 or Graphtec 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

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.



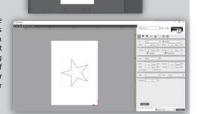
Improved Standard Software

These standard softwares can be downloaded and used upon purchasing cutting plotters.

Adobe Illustrator / CorelDRAW plug-in software

Cutting Master 5

Cutting Master 5 is Graphtec plug-in software for Adobe Illustrator and CorelDRAW. This software has variety of useful functions in cutting operation, including the function to set the cutting condition to be applied to cutting plotters. It allows users to make the best use of Graphtec's cutting plotters, working with major graphic design softwares users are familiar with.



	Windows 11 (Home / Pro / Enterprise / Education), Windows 10 / Windows 10 / Education (Home / Pro / Enterprise / Education) macOS 1013 (High Siera) – 14 (Sonoma) "Supported for 64 bit PC only			
	Software (*3)	Adobe Illustrator	CC2015 / CC2017 / CC2018 / CC2019 / 2020 2021 / 2022 / 2023 / 2024 *Supported for Windows CC2015 only	
		CorelDRAW (Windows Ver. Only)	X7 / X8 / 2017 / 2018 / 2019 / 2020 / 2021 / 2022/ 2023 *Please update X7 to versions newer than X7.6	

Graphic design software

Graphtec Studio 2

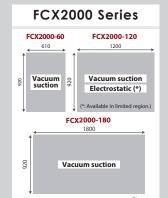
This software is for creating, editing and outputting cutting data. Anyone can use this software easily as it is equipped with design creating tools that can be used intuitively.



Supported OS (*3)	Windows 11 (Home / Pro / Enterprise / Education), Windows 10 / Windows 10 w 46 Edition (Home / Pro / Enterprise / Education) macOS 10.13 (High Sierra) – 14 (Sonoma) Supported for 64 bit PC only				
Supported	File Format	Adobe Illustrator, Corel DRAW, Portable Document Format Auto CAD Interchange Format			
Import Format (*4)	Extention	AI, CDR, PDF, DXF			

(*3) For more information about compatibility of the latest OS application software, please check the Graphtec website or contact your local representative of Graphtec. (*4) Images can be traced.

Table size and Media hold-down method

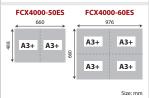


■ Vacuum suction system

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 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.

FOFTEXTONO Series

For curves on heavy paper NEW For heavy page (CP-001)





Loupe for cutting blade

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



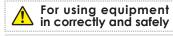
Specifications										
Model name	FCX2000-60VC	FCX2000-120VC	FCX2000-180VC	FCX2000-120ES (*1)	FCX4000-50ES	FCX4000-60ES				
Configuration	Digital servo system, Flatbed									
Media hold-down method	Vacuum suction			Electrostatic panel	Electrostatic panel					
Effective cutting area	610 mm x 920 mm	1200 mm x 920 mm	1800 mm x 920 mm	1200 mm x 920 mm	660mm×488mm	976mm×660mm				
Mountable media (Y-axis)	950 mm (37.4 inch)				536 mm (21.1 inch)	708 mm (27.9 inch)				
Roll media support	Roll media stocker (manual feedi	Roll media stocker (manual feeding), supported media; width: up to 950 mm, weight: up to 5 kg N/A								
Maximum cutting speed	400 mm/s (1 to 40 cm/s in 16 ste	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	:Max. 5.88 N (600 gf)				
Cutting force settings	Tool 1: in 40 steps, Tool 2: in 40 s	teps			Tool 1: in 48 steps, Tool 2: in 48 st	eps				
Minimum character height	Approx. 3 mm square(Approx. 0.	Approx. 3 mm square(Approx. 0.12 inch) (varies with character font and media) Under conditions specified by Graphtec								
Programmable resolution	GP-GL mode: 0.1/0.05/0.025/0.01 mm, HP-GL™: 0.025 mm									
Distance accuracy(*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	Max 0.4 mm / 610 mm				
Repeatability (*2)(*11)	Max 0.1 mm									
Display	Graphic type LCD (240 dots x 128 dots), supports Japanese, English and Chinese									
Standard interfaces	USB2.0 / RS-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, and tool type	s Cutting blade (supersteel), Pens	Water-based fiber-tip pen, oil-based ba	Ilpoint pen), and Creasing/scoring t	ool Cutting blade (supersteel), Pen	(Water-based fiber-tip pen), and Creasin	g/scoring tool(*10)				
Power source	100 to 240 V AC, 50/60 Hz (Auto	switching)								
Power consumption	Max. 140 VA		Max. 120 VA							
Operating environment	Temperature: +10 to +35 °C, Hur	nidity: 35% to 75% RH (non-condensing	1)							
Guaranteed accuracy environme	Temperature: +16 to +32 °C, Humidity: 35% to 70% RH (non-condensing)									
External dimensions	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] (Approx.)	(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 , macOS 10.13 (High Sierra) ~ 13 (Ventura)									
Supported software (*5)	Graphtec Studio2, Cutting Maste	r5, Windows Driver								
Compatible Safety	UL/cUL, CE marking									
Standards EMC FCC Class A , CE marking, VCCI Class A										

Media t	ype ○:Avail	FCX2000 Series				FCX4000 Series			
Type of m	edia	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 pape	r/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		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 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 / 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 1:	
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

FCX2000 series			*Please read Cutter Blade Manual before use.			
Item	Q'ty	Descri	Description			
Power cord	1	The type of cord is different by destination				
Cutting blade holder	1	PHP35	PHP35-CB15-HS			
Cutting blade	1	CB15U	J-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 ad	justing position of tool head (plate, key wrench)			
Protect Sheet	1	PM-CF	l-004A for ES models only			
USB cable	1	Lengtl	n 2.9 m			
Roll media stocker	1	Loada	ble media: width up to 950 mm, weight up to 5 kg			
Stand	1	Legs o	f the stand (Connecting bar is packed with main unit)			
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	ection bore diameter: 50mm			
Hose band	2	For VC	models only, to fix the hose			
FCX4000 series			*Please read Cutter Blade Manual before us			
Item	Q'ty	Descri	Description			
Power cord	1	The ty	The type of cord is different by destination			
Cutting blade holder	1	PHP33	-CB15N-HS			
Cutting blade	1	CB15U-1				
Loupe	1	PM-CT	PM-CT-001 (for checking the extruded length of blade)			
Pen holder	1	PHP31	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	1 2.9 m			
Printed documents	1	Quick	guide, Usage Precautions, Safety manual			
Option						
Item	Part nur	nber	Description			
Panel for	OPH-A3	5	10 mm vacuum hole pitch for FCX2000-60VC			
VC model (*7)	OPH-A36 OPH-A37		10 mm vacuum hole pitch for FCX2000-120VC			
			10 mm vacuum hole pitch for FCX2000-180VC			
Stand	ST0113		For FCX4000-60ES			
Warning Light (Optional) (*8) OPH-A40			The component incorporated to FCX2000			

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 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.



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



RoHS compliant product

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.
Graphtec does not support software/cliving 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 The software can be used by downloading from circing representative. '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 FCX2000, please contact local representative of us.
9 CB30UC is not available for TCX4000 series. '10 Recommend to use with Adhesive Sheet or Cling mat.' 11 exclined for media, in plotting/cutting mode.'