## **GRAPHTEC**

## Flatbed Cutting Plotters

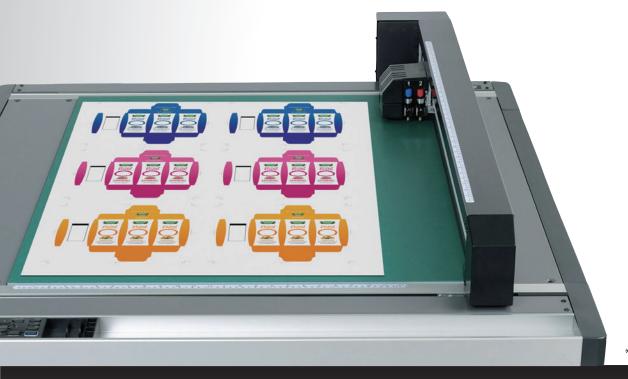
# FCX2000 FCX4000 SERIES SERIES

## 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

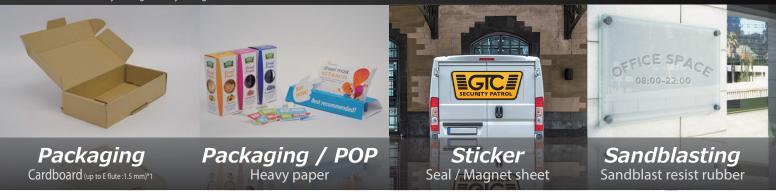
FCX4000-60ES

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

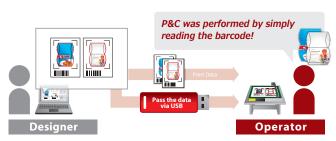
#### Offline operation using USB flash memory

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

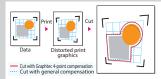
In Print & Cut operation, the cutting data is automatically selected from USB flash memory by scanning the barcode printed on the media then performs contour cutting. This prevents the usage of incorrect data, and improves work efficiency.



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

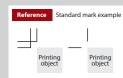
#### Four-point compensation -Precise cutting even of distorted printed graphics

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.



Supported OS (*3)	Windows 11 (Home / Pro / Enterprise / Education), Windows 10 / Windows 10 x64 Edition (Home / Pro / Enterprise / Education) macOS 10.13 (High Siera) — 15 (Sequoia) *Supports 64 bit PC only		
	Adobe Illustrator	CC2015 / CC2015.3 / CC2017 / CC2018 / CC2019 / 2020 2021 / 2022 / 2023 / 2024 / 2025 *CC2015 and CC2015.3 are supported only for Wind	
Software (*3)	CorelDRAW (Windows Ver. Only)	X7 / X8 / 2017 / 2018 / 2019 / 2020 / 2021 / 2022 / 2023 / 2024 *Please update X7 to X7.6 or later.	

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.

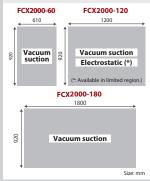


	Supported OS (*3)	Windows 11 (Home / Pro / Enterprise / Education), Windows 10 / Windows 10 x64 Edition (Home / Pro / Enterprise / Education) macOS 10.13 (High Sierra) – 15 (Sequola) "Supports 64 bit PC only				
	Import Format (*4)	File Format Adobe Illustrator, Corel DRAW, Portable Document Format Auto CAD Interchange Format				
		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

### FCX2000 Series

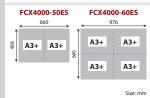


#### ■ Vacuum suction system

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 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 pa (PM-CT-002) (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, Flatbe	Digital servo system, Flatbed							
Media hold-down meth	od 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-ax	s) 950 mm (37.4 inch)	950 mm (37.4 inch) 536 mm (21.1 inch) 708 mm (27.9 inch)							
Roll media support	Roll media stocker (manual	Roll media stocker (manual feeding), supported media; width: up to 950 mm, weight: up to 5 kg N/A							
Maximum cutting spee	400 mm/s (1 to 40 cm/s in 1	16 steps), in all directions			750mm/s(1 to 75 cm/s in 23 ste	ps), 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), Too	I 2:Max. 5.88 N (600 gf)			
Cutting force settings	Tool 1: in 40 steps, Tool 2: in	n 40 steps			Tool 1: in 48 steps, Tool 2: in 48	steps			
Minimum character hei	ght Approx. 3 mm square(Appr	rox. 0.12 inch) (varies with character font	and media) Under conditions specified	by Graphtec					
Programmable resoluti	on GP-GL mode: 0.1/0.05/0.02	5/0.01 mm, HP-GL™: 0.025 mm							
Distance accuracy(*2)(*	<ol> <li>Max. 0.1% of the distance n</li> </ol>	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 0.5 mm / 900 mm Max 0.3 mm / 430 mm Max 0.4 mm / 610 mm							
Repeatability (*2)(*11)	Max 0.1 mm	Max 0.1 mm							
Display	Graphic type LCD (240 dots	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™ emulati	GP-GL and HP-GL™ emulation (set by menu, or selects automatically by received data)							
Number of tools	2 tools	2 tools							
Cutting blade, pen, and too	d tool types Cutting blade (supersteel), Pens (Water-based fiber-tip pen, oil-based ballpoint pen), and Creasing/scoring tool Cutting blade (supersteel), Pens (Water-based fiber-tip pen), and Creasing/scoring tool (*10)								
Power source	100 to 240 V AC, 50/60 Hz (	(Auto switching)							
Power consumption	Max. 140 VA	x. 140 VA Max. 120 VA							
Operating environmen	Temperature: +10 to +35 °C	C, Humidity: 35% to 75% RH (non-conde	nsing)						
Guaranteed accuracy envir	nment Temperature: +16 to +32 °C	C, Humidity: 35% to 70% RH (non-conde	nsing)						
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	Master5, Windows Driver							
Compatible Safe	, , , , , , , , , , , , , , , , , , , ,								
Standards EMC	FCC Class A , CE marking, V	FCC Class A , CE marking, VCCI Class A							

Media t	ype ○:Avai	lable 🛆 : Liı	nited	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 par	oer, 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

FCX2000 series		*Please read Cutter Blade Manual before use	
ltem	Q'ty	Description	
Power cord	1	The type of cord is different by destination	
Cutting blade holder	1	PHP35-CB15-HS	
Cutting blade	1	CB15U-2,CB15U-K30-5	
Loupe	1	PM-CT-001 (for checking the extruded length of blade)	
Height adjustment tool	1	For adjusting 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	Loadable media: width up to 950 mm, weight up to 5 kg	
Stand	1	Legs of 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)	
		Connection bore diameter: 50mm	
Hose band	2	For VC models only, to fix the hose	

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Item	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 / pacl
	PHP35-CB09-HS	0	0	For CB09U series blade	1 set / pacl
	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 / pacl
	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 / pacl
	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 / pack
	CB15UA-5	0	0	1.5mm dia. 45°, for high intensity reflective film	5 blades / pack
	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 / 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 / pacl
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,	KF700-BK	0	0	Water-based fiber-tip pen, Black	10 pens / pack
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 / 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-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 / pack
Protect Sheet	PM-CR-002A		Ō	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 / pack

FCX4000 series		*Please read Cutter Blade Manual before use.
Item	Q'ty	Description
Power cord	1	The type 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)
Protect Sheet	1	PM-CR-002A for FCX4000-50ES / PM-CR-003A for FCX4000-60ES
USB cable	1	Length 2.9 m
Printed documents	1	Quick guide, Usage Precautions, Safety manual

Option		
Item	Part number	Description
Panel for	OPH-A35	10 mm vacuum hole pitch for FCX2000-60VC
VC model (*7)	OPH-A36	10 mm vacuum hole pitch for FCX2000-120VC
	OPH-A37	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.



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RoHS compliant product

<sup>1</sup> 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.'