GRAPHTEC



Flatbet Cutting Plotters

FC4500_{series}/FC2250_{series}

Suitable for prototyping or small production runs in rigid materials



FC4500 series

Max. 750 mm/S cutting speed for high performance and productivity from your desk-top model

FC4510-60

860x600mm, Adhesive sheet/mat

Max. pressure 600gf, speed 750mm/sec



FC2250 series

Advanced model has wide tooling lineup and higher performance

FC2250-60VC

FC2250-120VC 1200x920mm, Vacuum suction

1200X)2011111, vacuum su

Max. pressure 1kgf, speed 400mm/sec





http://www.graphteccorp.com

Flatbed Cutting Plotters are used for a wide range of industrial applications and processes

Has a good selection of tools so suitable for various processes

Precise control of contour cut, half cut, perforated cut, and plotting. Ideal for creating samples or small production runs.

Suitable for print and cut using ARMS

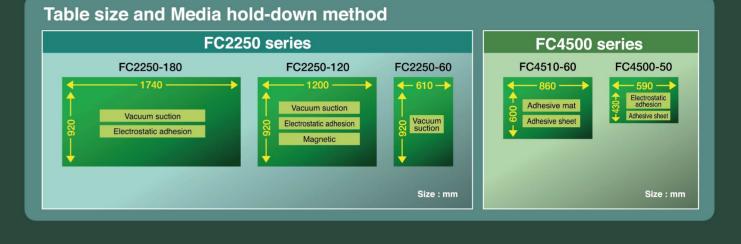
Equipped the ARMS (Advanced Registration Mark Sensing system). Easy and accurate cutting of pre-printed images using Cutting Master 2. Enables higher productivity of POP, stickers, and prototype cartons.

Work with harder, thicker, and thinner materials

Suitable for PET (polyethylene terephthalate), Polyamide, Stiff paper, Cardboard, Microflute board, or Industrial materials with precise adjustable cut pressure up to 1kgf. (Max. 600gf in FC4500/FC4510)

A range of models with several table sizes and media hold-down methods

Five table size. A choice of media hold-down systems including Vacuum suction, Electrostatic adhesion, Magnetic, or Adhesive sheet/mat suitable for many different applications.











ORIGINAL

correction

Four-point registration

mark (two-axis skew)

Four-point registration mark sensing and X/Y-axis correction

uses high-precision positioning to ensure accurate cutting of

graphics that have been skewed or deformed during





Packaging Sticker

Garment, Shoes

Monument **Industrial Goods**

Enhanced functions for higher productivity

Repeated cutting function

This function enables multi pass cutting to be performed on a medium that cannot be cut with a single cutting

2-Tool holders for easy selection

Two tools can be mounted at the same time for easy switching. If the cutter blade and the creasing tool are mounted at the same time, cutting and scoring operations are performed automatically for higher productivity. Note: The second tool is held by magnetic force on the FC4500-50 so the choice of tool is limited.

Simple creasing function

A simple function to create fold lines for clean folding on micro-flute and cardboard has been enabled.

- Up to three fold lines can be selected.
- · If two or three fold lines have been selected
- the spacing between the lines can also be specified Repeated creasing operations can also be specified for each of the lines.

How to determine the number of crasing lines

- · Single-line : Substrates up to 0.1 mm thick
- · Double-line: Paperboard 0.1 to 0.5 mm thick • Triple-line: Rigid cardboard 0.3 to 0.5 mm thick



The spacing between the two lines indicated by the arrows should be approximately equal to the thickness of

However, the type of substrate being scored and the temperature and humidity of the working environment adjust the settings to suit your own

Advanced reverse-side cutting / creasing function

Cutting and creasing can be carried out from reverse-side when using the registration marks. This prevents crease line from appearing on the printed surface.

Tangential emulation

Graphtec's proprietary tangential emulation provides precise and clean cutting even on thicker material, ensuring sharp edges and corners.

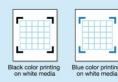
Advanced Registration Mark Sensing system (ARMS)

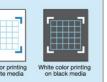
Automatic ARMS

Sign. Stencil. Traffic Sign

sensitivity adjustment The sensitivity of the Mark sensor can be adjusted to match

the cutting media, it enables the use of various colors of





ORIGINAL Segment area compensation

The intermediate registration marks in the X-axis direction allow four-point correction for each individual segment area This enables precise positioning over the whole area of prints that may have skewed during the printing process.



Automatic registration mark detection

The first registration mark is detected automatically, eliminating the need to move the head to the registration mark manually. Should registration marks not be found at the first attempt they are automatically re-detected. thus saving the time of starting over.



Multiple registration mark set detection

Conventional single-axis corrected cutting

The cutting data and layout information are sent for designs printed in multiple copies, enabling continuous detection of registration marks for cutting. This feature is essential when high accuracy cutting is required.



Supports registration mark commands

Registration mark commands are provided to control ARMS functions from software

• Cutting Master 2

Cutting Master 2

This plug-in software allows direct cutting from graphics applications. For higher productivity, create graphics or text in Adobe Illustrator or CorelDraw, then

This software reads a DXF file

in the AutoCAD R13 format

and then enables data display.

deleting, sorting, changing of

the output order, specification

of output setting, and saving

functions as well as creation of

GP-GL plot data and output to

a plotter.

to the plotter

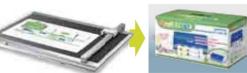
simply output directly



- · Possible to check the cutting lines by preview window
- · Centering, Rotate, Mirror for easy layout · Outlines for characters are created automatically
- · Output by layer / color
- · Auto-welding for binding same color of shapes
- Tiling / Paneling for segmentation of cutting
- · ARMS can be controlled by software
- Reverse-side cutting or creacing is supported in FC4500/FC4510
- · Multiple over cutting is possible

· Matrix copy for higher productivity

Windows Vista / XP / 2000, Mac OSX 10.2 - 10.5



Versatile software D-Cut Master D-Cut Master of PC4500 and FC4510.

 The Cutting Simulation function enables checking of the cut sequence, changing of the cut sequence, and tiled cutting prior to actual output Output in separate layers or separate colors can be specified.

· Output conditions can be selected by layer name or color.

Matrix Copy function

Any drawing exceeding the plotter's Valid Area can be output in multiple pages using the Tiling function.

· Supports a sorting function to minimize tool movement. The Weed Border cutting function enables automatic output of a border to facilitate weeding

· Output conditions can be managed by media name

patible OS Windows Vista / XP / 2000

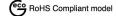
Specifications								
Model name		FC4510-60	FC2250-	60VC	FC2250-120VC			
Configuration	Digital servo system, Flatt	oed	1 02200 0010		. 5225			
Media hold-down method	Electrostatic adhesion or Adhesive sheet	Adhesive mat or Adhesive sheet	Vacuum suction	Magnetic	Electrostatic adhesion	Vacuum suction	Electrostatic adhesion	
Effective cutting area	590 x 430 mm (23.2 x 16.9 inch)	860 x 600 mm (33.8 x 23.6 inch)	610 x 920 mm (24.0 x 36.0 inch) 1200 x 920 mm (47.2 x 36.0 inch)				-	
Mountable media	500 mm (19.6 inch) (Y-axis direction)	666 mm (26.2 inch) (Y-axis direction)	1010 mm (43.3 inch) (Y-axis direction)					
Media type	Marking film (vinyl, fluorescent, and reflective) Stiff paper/card (for stencils, etc.) up to 0.5 mm thick Polystyrene foam sheets up to 0.8 mm thick Sandblast rubber sheets up to 1.0 mm thick Microflute board (F/G grades) Clear sheets for plastic boxes High-intensity reflective film		Marking film (vinyl, fluorescent, and reflective) Stiff paper/card (for stencils, etc.) up to 1.0 mm thick Polystyrene foam sheets Sandblast rubber sheets up to 1.0 mm thick Microflute board (F/G grades) Clear sheets for plastic boxes High-intensity reflective film					
Maximum cutting speed	750 mm/s (30 inch/s) (1 to 75 cm/s in 23 steps)		400 mm/s (16 inch/s) (1 to 40 cm/second in 40 steps)					
Cutting pressure	Tool 1: Max. 5.88 N (600 gf), in 48 steps Tool 2: Max. 2.94 N (300 gf), in 30 steps							
Minimum character size	approx. 5 mm square (varies wit	h the character font and media)	approx. 10 mm square (varies with the c	naracter font and media)				
Mechanical resolution	0.005 mm (5µm)		0.0025 mm (2.5 <i>µ</i> m)					
Programmable resolution	GP-GL mode: 0.1/0.05/0.0	025/0.01 mm, HP-GL™ : 0	0.025 mm					
Distance accuracy	Max 0.2% of the distance moved or 0.1 mm, whichever is lager Max, 0.1% of the distance moved or 0.1 mm, whichever is lager							
Perpendicularity	Max 0.3 mm / 430 mm	Max 0.4 mm / 610 mm	Max. 0.5 mm / 900 mm					
Repeatability	Max 0.1 mm •							
Standard interfaces	RS-232C, USB2.0 (Full sp	peed)						
Buffer memory	2 Mbyte							
Command sets	GP-GL and HP-GL™ er	mulation (selected by menu)						
Number of tools	2 tools							
Cutter blade, pen, and tool types	Cutter blade: supersteel Pens: Water-based fiber-tip pen, oil-based ballpoint pen Pens: Water-based fiber-tip pen, oil-based ballpoint pen Pens: Water-based fiber-tip pen, oil-based ballpoint pen, disposable ink Creasing/scoring tool							
Others	ARMS (Advanced Registr	ation Mark Sensing System)	Reverse-side cutting and creasing with A	RMS, Copy function, Creasing fu	nction, Repeatedly cut function			
Power supply	100 to 240 VAC, 50/60 Hz	(Auto switching)						
Power consumption	Max. 120 VA							
Operating environment	Temperature: +10 to +35 degree C (44 to 95 degree F) , Humidity: 35 to 75% RH (non-condensing)							
Guaranteed accuracy environment	Temperature: +16 to +32 of	degree C (55 to 90 degree F	, Humidity: 35% to 70% RH (non-conden	sing)				
External dimensions (W x D x H) *8	857 x 780 x 200 mm (33.7 x 30.7 x 7.9 inch)		1172 x 962 x 200 mm (46.1 x 37.9 x 7.9 inch)		920 x 1285 x 857mm (36.2 x 50.6 x 33.7 inch)			
Weight	approx. 19 kg (42 lbs.) approx. 27 kg (60 lbs.) approx. 58 kg (128 lbs.)							
Compatible OS	Windows 2000 / Windows XP / Windows Vista, Macintosh OS10.2-10.5							
Certifications	UL, cUL, CE making, FCC-A, EN55022-A, RoHS							

	item	Description	Q'ty
FC4510 SERIES	Power cable		1 pc
	Cutter plunger	PHP32-CB15N-HS	
	Cutter Blade	CB15U-2 (2 blades/pack)	
	Water based fiber-tip pen	KF552-BK, Black (1 pen/pack)	
	Creasing tool	CP-001, For FC4510-60 only	
	Adhesive mat	CM-0002 (2 sheets/set), For FC4510-60 only	
	Adhesive sheet	CM-0003 (2 sheets/set)	
	Media positioning plate		
	USB CABLE (2.9 m)	CBL1112ACL2-2.9M	
	CD-ROM	User's manual, Windows Driver , Cutting Master 2	
	Quick Start Guide	-	1 pc
	Usage Precautions		1 pc
FC2250 SERIES	Power cable		1 pc
	Cutter plunger	PHP31-CB15B-HS	1 pc
	Cutter Blade	CB15U-SP (2 blades), CB15U-K30-SP (5 blades)	
	Water based fiber-tip pen	KF552-BK, Black (1 pen/pack)	
	Sheet holder plates	For MG models only (2 long, 2 medium, 4 short)	
	Hexagon key wrench	For M4 cap screw	
	Height adjustment plates	10 mm, 4 mm hight	
	Durable flexible hose	For VC models only, 1.5 to 5 m (can extend/contract) Conection bore diameter: 38mm (for 60), 50mm (for 120/180)	
	Hose clamp	For VC models only, 38mm (for 60), 50mm (for 120/180)	2 pcs
	Vacuum pump mounting base	For VC models only	1 pc
	USB cable (2.9 m)	CBL1112-2.9M	
	CD-ROM	User's manual, Windows driver, Cutting Master 2, D-Cut Master	

Option			
item	Description		
ST0032	Stand for FC4510-60		
OPS639	D-Cut Master, for FC4500/FC4510		

item	Model	FC4500/ FC4510	FC2250 series	Contents	Q'ty
Cutter plunger	PHP32-CB09N-HS	0	0	Plunger used with 0.9mm diameter cutter blades (CB09UA)	1 pc/pack
	PHP32-CB15N-HS	0	0	Plunger used with 1.5mm diameter cutter blades, built in spring (CB15U, CB15UA, CB15UB, CB15U-K30, CB15UA-K30)	1 pc/pack
	PHP31-CB09-HS	0	0	Plunger used with 0.9mm diameter cutter blades (CB09UA)	1 pc/pack
	PHP31-CB15-HS	0	0	Plunger used with 1.5mm diameter cutter blades, comes with one tube of grease (CB15U, CB15UA, CB15UB, CB15U-K30, CB15UA-K30)	1 pc/pack
	PHP31-CB15B-HS	0	0	Plunger used with 1.5mm diameter cutter blades (CB15U-SP,CB15U-K30-SP, CB15U-K20-SP)	1 pc/pack
	PHP34-CB30-HS		0	Plunger used with 3.0mm diameter cutter blade (CB30UC)	1 pc/pack
Cutter blade	CB09UA-5	0	0	0.9mm diameter, supersteel blade, 45 degree, comes with a spring, for cutting general film (up to 0.25mm thick)	5 blades/pack
	CB15U-5	0	0	1.5mm diameter, supersteel blade, 45 degree, for cutting slightly thick film (up to 0.5mm thick)	5 blades/pack
	CB15U-5SP	0	0	1.5mm diameter, supersteel blade, 45 degree, comes with spring, for cutting slightly thick film (up to 0.5mm thick)	5 blades/pack
	CB15U-K30-5	0	0	1.5mm diameter, supersteel blade, 30 degree, for cutting thick materials (up to 1.5mm thick)	5 blades/pack
	CB15U-K30-5SP	0	0	1.5mm diameter, supersteel blade, 30 degree, comes with a spring, for cutting thick materials (up to 1.5mm thick)	5 blades/pack
	CB15U-K20-2SP	0	0	1.5mm diameter, supersteel blade, 20 degree, comes with a spring, for cutting sandblast rubber (up to 1.0 mm)	2 blades/pack
	CB15UA-5	0	0	1.5mm diameter, supersteel blade, 45 degree, for cutting High-intensity reflective film	5 blades/pack
	CB15UA-K30-5	0	0	1.5mm diameter, supersteel blade, 30 degree, for cutting High-intensity reflective film	5 blades/pack
	CB15UB-2	0	0	1.5mm diameter, supersteel blade, 45 degree, for cutting small letter	2 blades/pack
	CB30UC-1		0	3.0mm diameter, supersteel blade, 45 degree, for cutting thick materials	1 blade/pack
_oupe	CLP-0001	0	0	Loope	1 pc/pack
Creasing tool	CP-001	0	0	For cardboard (pen type)	1 pc/pack
	CP-002	0		For cardboard (roller type)	1 pc/pack
	CP-003		0	For corruganted cardboard (roller type)	1 pc/pack
Ballpoint pen Plunger	PHP31-BALL	0	0	Plunger for oil based ballpoint pen (KB140 series)	2 pcs/pack
Oil based	KB140-S1	0	0	Refill for ballpoint pen set (Black x 2, Red 1, Blue x 1, and Green x1)	5 pens/pack
pallpoint pen	KB141-RD	0	0	Refill for ballpoint pen, Red	5 pens/pack
	KB142-BK	0	0	Refill for ballpoint pen, Black	5 pens/pack
	KB145-BL	0	0	Refill for ballpoint pen, Blue	5 pens/pack
	KB146-GR	0	0	Refill for ballpoint pen, Green	5 pens/pack
Water-based fiber-tip pen	KF550-S1	Ô	Ö	Multiple color set (Black x 2, Red x 1, Blue x 1, and Green x 1)	5 pens/pack
	KF551-RD	Ŏ	Ŏ	Red	5 pens/pack
	KF552-BK	Ŏ	Õ	Black	5 pens/pack
	KF555-BL	ŏ	Õ	Blue	5 pens/pack
	KF556-GR	Õ	Õ	Green	5 pens/pack

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