

Flatbet Cutting Plotters

FC4500series/FC2250series

Suitable for prototyping or small production runs in rigid materials



Specifications

Model name	FC4500-50	FC4510-60	FC2250-60VC	FC2250-120VC	FC2250-120MG	FC2250-120ES	FC2250-180VC	FC2250-180ES
Configuration	Digital servo system, Flatbed							
Media hold-down method	Electrostatic adhesion or Adhesive sheet	Adhesive mat or Adhesive sheet	Vacuum suction *1		Magnetic	Electrostatic adhesion	Vacuum suction *1	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)			1740 x 920 mm (68.5 x 36.0 inch)	
Mountable media	500 mm (19.6 inch) (Y-axis direction)	666 mm (26.2 inch) (Y-axis direction)	950 mm (37.4 inch) (Y-axis direction)					
Media type	Marking film (vinyl, fluorescent, and reflective) Stiff paper/card (for stencils, etc.) up to 0.5 mm thick *2 Polystyrene foam sheets up to 0.8 mm thick *3 Sandblast rubber sheets up to 1.0 mm thick *3 Microflute board (F/G grades) Clear sheets for plastic boxes High-intensity reflective film *4		Marking film (vinyl, fluorescent, and reflective) Stiff paper/card (for stencils, etc.) up to 1.0 mm thick *2 Polystyrene foam sheets *3 Sandblast rubber sheets up to 1.0 mm thick *3 Microflute board (F/G grades) Clear sheets for plastic boxes High-intensity reflective film *4					
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	Tool 1, Tool 2: Max. 5.88 N (600 gf), in 48 steps	Tool 1: Max. 4.9N (500 gf), in 40 steps Tool 2: Max. 9.8N (1 kgf), in 40 steps					
Minimum character size	approx. 5 mm square (varies with the character font and media)		approx. 10 mm square (varies with the character font and media)					
Mechanical resolution	0.005 mm (5µm)		0.0025 mm (2.5µm)					
Programmable resolution	GP-GL mode: 0.1/0.05/0.025/0.01 mm, HP-GL™ *5; 0.025 mm							
Distance accuracy	Max 0.2% of the distance moved or 0.1 mm, whichever is larger *6		Max. 0.1% of the distance moved or 0.1 mm, whichever is larger *6					
Perpendicularity	Max 0.3 mm / 430 mm		Max 0.4 mm / 610 mm		Max. 0.5 mm / 920 mm			
Repeatability	Max 0.1 mm *6							
Standard interfaces	RS-232C, USB2.0 (Full speed)							
Buffer memory	2 Mbyte							
Command sets	GP-GL and HP-GL™ *5 emulation (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 Creasing/scoring tool		Cutter blade: supersteel Pens: Water-based fiber-tip pen, oil-based ballpoint pen, disposable ink *7 Creasing/scoring tool					
Others	ARMS (Advanced Registration Mark Sensing System), Reverse-side cutting and creasing with ARMS, Copy function, Creasing function, 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 degree C (65 to 90 degree F), Humidity: 35% to 70% RH (non-condensing)							
External dimensions (W x D x H) *8	857 x 780 x 200 mm *9 (33.7 x 30.7 x 7.9 inch)	1172 x 962 x 200 mm *9 (46.1 x 37.9 x 7.9 inch)	920 x 1285 x 857 mm *10 (36.2 x 50.6 x 33.7 inch)	1568 x 1285 x 944 mm *10 (61.7 x 50.6 x 37.2 inch)			2068 x 1285 x 944 mm *10 (81.4 x 50.6 x 37.2 inch)	
Weight	approx. 19 kg (42 lbs.)	approx. 27 kg *9 (60 lbs.)	approx. 58 kg *9*13 (128 lbs.)	approx. 69 kg *9*13 (152 lbs.)	1568 x 987 x 1687 mm *12 (61.7 x 38.9 x 66.4 inch)		approx. 74 kg *9*13 (163 lbs.)	2068 x 987 x 1687 mm *12 (81.4 x 38.9 x 66.4 inch)
Compatible OS	Windows 2000 / Windows XP / Windows Vista, Macintosh OS10.2-10.5							
Certifications	UL *14, cUL *14, CE marking, FCC-A, EN55022-A, RoHS							

*1 A vacuum pump is not provided with VC model.

*2 The CB15U or CB15U-K30 cutter blade is used.

*3 The CB15U-K30 cutter blade is used.

*4 The CB15UA cutter blade is used.

*5 HP-GL™ is registered trademark of the Hewlett-Packard Corporation of the United States.

*6 When operated with Graphtec specified media and conditions.

*7 Disposable ink pens cannot be used with the Tool 2 (high-pressure) in FC2250 series.

*8 Tolerance: +/- 5 mm

*9 The stand is not included.

*10 The stand is included. The table is set in level.

*11 The table cannot be tilted.

*12 The table is tilted in 60 degree.

*13 A vacuum pump is not included.

*14 FC2250-120MG is excluded.

Standard accessories

Item	Description	Qty	
FC4500/ FC4510 SERIES	Power cable	1 pc	
	Cutter plunger	PHP32-CB15N-HS	1 pc
	Cutter Blade	CB15U-2 (2 blades/pack)	1 pack
	Water based fiber-tip pen	KF552-BK, Black (1 pen/pack)	1 pack
	Creasing tool	CP-001, For FC4510-60 only	1 pc
	Adhesive mat	CM-0002 (2 sheets/set), For FC4510-60 only	1 set
	Adhesive sheet	CM-0003 (2 sheets/set)	1 set
	Media positioning plate		2 pcs
	USB CABLE (2.9 m)	CB1112ACL2-2.9M	1 pc
	CD-ROM	User's manual, Windows Driver, Cutting Master 2	1 pc
	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)	1 set
Water based fiber-tip pen		KF552-BK, Black (1 pen/pack)	1 pack
Sheet holder plates		For MG models only (2 long, 2 medium, 4 short)	1 set
Hexagon key wrench		For M4 cap screw	1 pc
Height adjustment plates		10 mm, 4 mm height	1 each
Durable flexible nose		For VC models only, 1.5 to 5 m (can extend/contract) Connection bore diameter: 38mm (for 60), 50mm (for 120/180)	1 pc
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)		CB1112-2.9M	1 pc
CD-ROM		User's manual, Windows driver, Cutting Master 2, D-Cut Master	1 pc

Option

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

Supply

Item	Model	FC4500/ FC4510	FC2250 series	Contents	Qty	
Cutter plunger	PHP32-CB09N-HS	○	○	Plunger used with 0.9mm diameter cutter blades (CB09UA)	1 pc/pack	
	PHP32-CB15N-HS	○	○	Plunger used with 1.5mm diameter cutter blades, built in spring (CB15U, CB15UA, CB15UB, CB15U-K30, CB15UA-K30)	1 pc/pack	
	PHP31-CB09-HS	○	○	Plunger used with 0.9mm diameter cutter blades (CB09UA)	1 pc/pack	
	PHP31-CB15-HS	○	○	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	○	○	Plunger used with 1.5mm diameter cutter blades (CB15U-SP, CB15U-K30-SP, CB15U-K20-SP)	1 pc/pack	
	PHP34-CB30-HS	○	○	Plunger used with 3.0mm diameter cutter blade (CB30UC)	1 pc/pack	
	Cutter blade	CB09UA-5	○	○	0.9mm diameter, supersteel blade, 45 degree, comes with a spring, for cutting general film (up to 0.5mm thick)	5 blades/pack
		CB15U-5	○	○	1.5mm diameter, supersteel blade, 45 degree, for cutting slightly thick film (up to 0.5mm thick)	5 blades/pack
		CB15U-5SP	○	○	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	○	○	1.5mm diameter, supersteel blade, 30 degree, for cutting thick materials (up to 1.5mm thick)	5 blades/pack
CB15U-K30-5SP		○	○	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		○	○	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		○	○	1.5mm diameter, supersteel blade, 45 degree, for cutting High-intensity reflective film	5 blades/pack	
CB15UA-K30-5		○	○	1.5mm diameter, supersteel blade, 30 degree, for cutting High-intensity reflective film	5 blades/pack	
CB15UB-2		○	○	1.5mm diameter, supersteel blade, 45 degree, for cutting small letter	2 blades/pack	
CB30UC-1		○	○	3.0mm diameter, supersteel blade, 45 degree, for cutting thick materials	1 blade/pack	
Loupe	CLP-001	○	○	Loupe	1 pc/pack	
	Creasing tool	CP-001	○	○	For cardboard (pen type)	1 pc/pack
		CP-002	○	○	For cardboard (roller type)	1 pc/pack
		CP-003	○	○	For corrugated cardboard (roller type)	1 pc/pack
Ballpoint pen Plunger	PHP31-BALL	○	○	Plunger for oil based ballpoint pen (KB140 series)	2 pcs/pack	
	Oil based ballpoint pen	KB140-S1	○	○	Refill for ballpoint pen set (Black x 2, Red 1, Blue x 1, and Green x 1)	5 pens/pack
KB141-RD		○	○	Refill for ballpoint pen, Red	5 pens/pack	
KB142-BK		○	○	Refill for ballpoint pen, Black	5 pens/pack	
KB145-BL		○	○	Refill for ballpoint pen, Blue	5 pens/pack	
KB146-GR		○	○	Refill for ballpoint pen, Green	5 pens/pack	
KF550-S1		○	○	Multiple color set (Black x 2, Red x 1, Blue x 1, and Green x 1)	5 pens/pack	
KF551-RD		○	○	Red	5 pens/pack	
Water-based fiber-tip pen	KF552-BK	○	○	Black	5 pens/pack	
	KF555-BL	○	○	Blue	5 pens/pack	
	KF555-GR	○	○	Green	5 pens/pack	
		○	○		5 pens/pack	



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