

## FC5100 Series Specifications

	FC5100-75	FC5100-100	FC5100-130	FC5100-150
Configuration	Digital servo friction feed with MicroGritroll™ drive			
Maximum cutting area	29.8" x 164" (758 mm x 50 m)	42.0" x 164" (1067 mm x 50 m)	54.0" x 164" (1372 mm x 50 m)	59.6" x 164" (1514 mm x 50 m)
Compatible film width	3.9" to 36.0" (100 mm to 914 mm)	3.9" to 48.0" (100 mm to 1219 mm)	3.9" to 59.1" (100 mm to 1500 mm)	3.9" to 63.0" (100 mm to 1600 mm)
Minimum film width	3.9" (100 mm)*1			
Maximum cutting speed	55.7 in/s (1414 mm/s), at a 45° angle			
Maximum acceleration	4.0 G			
Programmable cutting force	20 g to 500 g in 40 steps			
Minimum character matrix	Approximately 0.12" (3 mm) high			
Mechanical resolution	0.0002" (0.005 mm)			
Programmable resolution	GP-GL™ : 0.1/0.05/0.025/0.01 mm HP-GL® : 0.001" (0.025 mm)			
Distance accuracy	0.1 mm or 0.1%, whichever is greater			
Perpendicularity	0.5/580 mm or better		1.5/1000 mm or better	
Repeatability*2	0.0039"/80" (0.1mm/2m) travel or better			
Number of tools mountable	1 (cutter pen, plotting pen, or pouncing tool); 2 tools can be mounted if the optional second penholder is installed			
Blade types	Supersteel, (0.9 mm and 1.5 mm), ceramic (1.5 mm) and sapphire (1.5 mm)			
Pen types	Water-/oil-based fibertip, water-/oil-based ballpoint, ceramic-tip			
Film types	Self-adhesive vinyl film, fluorescent film, reflective film, Amberlith™, Rubylith™, sandblast resist rubber			
Pouncing function	Requires optional pouncing tool (tool diameter is 1.2 mm)			
Pouncing media	Plain paper, 0.06 mm to 0.13 mm thick			
Interfaces	RS-232C serial, IEEE-1284 parallel (auto recognition), USB 1.1			
Data buffer	2 MB			
Command sets	GP-GL™/HP-GL®, (control-panel selectable)			
Number of preset condition groups	8 groups, user-specifiable			
Control menu and status display	20 digits by 4 lines LCD with comprehensive icon-corresponding soft keys			
Axis alignment	Standard LED beam positioning system (using Light Pointer) or optional precision registration mark sensor for registration of a pre-printed digital image			
Media supply mechanism	Integrated Accuload™ media supply system Optional media rack for simultaneously holding up to 3 rolls of media (FC5100-75 requires optional floor stand)			
Media pre-feed	Standard (built-in SmartFeed™ function automatically unwinds and pre-feeds media for an operator-specified distance upon self-recognition of plot file length)			
Floor stand	Optional	Standard		
Power requirements	100 to 240 VAC, 50/60 Hz (auto switching)			
Power consumption	140 VA max.			
Operating environment	50 to 95°F (10 to 35°C), 35 to 75% RH (non-condensing)			
Guaranteed accuracy environment	60 to 90°F (16 to 32°C), 35 to 70% RH (non-condensing)			
Dimensions (W x D x H)	44.7" x 19.1" x 13.8" (1135 x 485 x 351 mm)	56.7" x 28.1" x 46.3" (1440 x 715 x 1175 mm)	67" x 28.1" x 46.3" (1703 x 715 x 1175 mm)	73.2" x 28.1" x 46.3" (1860 x 715 x 1175 mm)
Weight (approx.)	64 lbs (29 kg)	112 lbs (51 kg) including stand	123 lbs (56 kg) including stand	128 lbs (58 kg) including stand
Certifications	CE mark, FCC, VCCI, TUV, CSA, UL			

## Accessories and Options

Options	Second Penholder (for plotting pen)*3; Registration Mark Sensor*3; Stand for FC5100-75 (standard for the other models); Media Catch Basket; Additional Media Rack; Pouncing Tool
Standard accessories	User Guide CD-ROM (including User's Manual, Windows 98/ME/2000/XP Driver; Cutting Master™ Plug-in Software for Windows®/Mac®); Power Cord; Serial Cable; PHP32-CB09N Blade Holder; CB09UA-2 Cutter Blades; Water-based Black Fiber-tip Pen, Floor Stand (FC5100-100, FC5100-130, FC5100-150)
Other accessories	PHP61-Loupe for manual registration/axis alignment

\*1 Subject to media setting conditions

\*2 When using the optional media basket and Graphtec-specified media and cutting conditions

\*3 • The second penholder cannot be used concurrently with the registration mark sensor.  
• The light pointer cannot be used concurrently with the registration mark sensor.  
• The second penholder and the LED positioning system can be used concurrently.

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\* Specifications are subject to change without notice.



### To ensure safe and correct use of this product:

- Read the instruction manual thoroughly before use.
- Ground the product properly to prevent electric shock due to current leakage, and always use with the correct power supply voltage indicated.



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