

**GRAPHTEC**  
PRECISION CUTTING SOLUTIONS



**ALL NEW**

# FC9000 SERIES HIGH-PERFORMANCE CUTTING PLOTTERS



## RE-ENGINEERED FOR PERFORMANCE

A re-engineered feeding system, tool head, and new ARMS sensor further contribute to the FC Series' class leading performance.



## PRINT & CUT PERFECTED

New ARMS 8.0 features the introduction of the Datalink Barcode System in addition to other accuracy and efficiency boosting functions.



## ALL-IN-ONE SYSTEM

Easily create and cut high quality designs with Cutting Master 4 and Graphtec Pro Studio software. Included Media Flanges and Blade Loupe ensure accurate tracking and blade setup.

SPECIFICATIONS				
Item	FC9000-75	FC9000-100	FC9000-140	FC9000-160
Configuration	Grit rolling type			
Drive method	Digital Servo Drive			
Max cutting area (W x L) (*1)	30" x 164"	42" x 164"	54" x 164"	64" x 164"
Cutting area of guaranteed accuracy (*1)	29.21" x 50"	41.22" x 32" / 30" x 50"	53.22" x 32" / 30" x 50"	63.26" x 32" / 30" x 50"
Mountable media width	Min. (*2) 1.96" Max. 36.2"	48.18"	60.19"	72.83"
Mountable roll media diameter	2.99" to 7.87" (6.29" when the optional flange (OPH-A21 is installed)			
Mountable roll media mass	26 lbs	35 lbs	44 lbs	52 lbs
Take-up possible roll media width	--			
Take-up possible roll media mass	--			
Maximum cross cut width	30"	42"	54"	64"
Max. cutting speed	58.46 inches per second at a 45° direction			
Acceleration	Max. 1543 in/s <sup>2</sup> at 45° direction			
Cutting force	Max. 5.88N (600gf)			
Minimum character size	Approx. 5 mm alphanumeric (varies depending on character font and media)			
Mechanical resolution	0.005 mm			
Programmable resolution	GP-GL: 0.1/0.05/0.025/0.01 mm HP-GL™ (*3): 0.025 mm			
Repeatability (*1)	Max. 0.1 mm in plot up to 2 m (Excluding media expansion and contraction)			
Number of push rollers	2 rollers	3 rollers	4 rollers (Max. 5 (option))	
Mountable number of tools	1 tool (mountable 2 tools (option))			
Blade types	Supersteel			
Pen types	Oil-based ballpoint pen, Water-based fiber-tip pen			
Media types	Thickness 0.25 mm or less Marking film (PVC film / fluorescence / reflective), Polyester film (under certain conditions), High Intensity, reflective film (Diamond grade, Engineer grade) (*4)			
Max media thickness	59.1 mil (1.48 mm)			
Display	3.7" Graphic type LCD with back-light (240dots x 128dots), supports 10 languages			
Interface	USB 2.0(Full Speed), Ethernet 10BASE-T/100BASE-TX			
Buffer memory	2MB			
Command sets	GP-GL / HP-GL™ (Set by command or auto-detect) (*3)			
Compatible OS (*5)	Windows 10/8.1/7 Mac OS X 10.6 ~ 10.11 / macOS 10.12 ~ 10.14 (Graphtec Studio: 10.6 - 10.14, Cutting Master 4: 10.7 - 10.14)			
Supported software (*6)	Graphtec Pro Studio(Windows)(*7), Graphtec Studio(Mac), Cutting Master 4(*7), Windows Driver			
Power source	100 V to 240 V AC, 50 / 60 Hz			
Power consumption	Max 140 VA			
Operating environment	50 to 95 °F, 35 to 75 % R.H. (non-condensing)			
Guaranteed accuracy environment	60 to 89 °F, 35 to 70 % R.H. (non-condensing)			
External dimensions (W x D x H) (*8)	Approx. 53" x 45" x 48"	Approx. 65" x 45" x 48"	Approx. 77" x 45" x 48"	Approx. 87" x 45" x 48"
Machine weight (approx.) (*8)	108 lbs	123 lbs	141 lbs 178 lbs with automatic take-up roller	154 lbs 195 lbs with automatic take-up roller
Safety	PSE, UL/cUL, CE mark			
EMC	VCCI Class A, FCC Class A, CE mark			

OPTION			
Item	Part No.	Description	
Automatic Take-up Roller	OPH-A43	For FC9000-140	
	OPH-A44	For FC9000-160	
Additional push roller kit	OPH-A47	For FC9000-140 or FC9000-160	
2nd pen holder	ECK0013	For dual tool configuration (dealer option)	
Media Flange	OPH-A21	Flange for media holding	
Graphtec Pro Studio Plus	OPS682-PLS	Design software including all advanced functions (1 license)	
Graphtec Pro Studio Plus for Rhinestone	OPS682-RSF	Limited edition of rhinestone function only (1 license)	
Graphtec Pro Studio Plus for Auto Nesting	OPS682-ANF	Limited edition of auto nesting function only (1 license)	

SUPPLIES			
Item	Part No.	Description	Package
Cutting blade holder	PHP33-CB09N-HS	For CB09U series blade	1 set per pack
	PHP33-CB15N-HS	For CB15U series blade	1 set per pack
	PHP33-CB09-HS	For CB09U series blade	1 set per pack
	PHP35-CB15-HS	For CB15U series blade	1 set per pack
Cutting blade	CB09-P	0.9mm dia. 45° angle, Supersteel	5 blades/pack
	CB09UB-5	0.9mm dia. 45° angle, Supersteel	5 blades/pack
	CB09UB-K60-5	0.9mm dia. 60° angle, for Car Film	5 blades/pack
	CB15U-5	1.5mm dia. 45° angle, for paper/cardboard	5 blades/pack
	CB15U-K30-5	1.5mm dia. 30° angle, for paper/cardboard	5 blades/pack
	CB15UA-5	1.5mm dia. 45° angle, for high intensity reflective film	5 blades/pack
	CB15UA-K30-5	1.5mm dia. 30° angle, for high intensity reflective film	5 blades/pack
	Cross-cutter blade	PM-CC-002	Standard type
Loupe	PM-CT-001	Checking blade length, for PHP33 and PHP35 series	1 set per pack
Fiber-tip pen holder	PHP31-FIBER	Pen holder for KF700 series pen	1 set per pack
Water-based fiber-tip pen	KF700-BK	Pen (black)	10 pens/pack
Ballpoint pen holder	KF700-RD	Pen (red)	10 pens/pack
	PHP34-BALL	Pen holder for KB700 pen	1 set per pack
Oil-based ballpoint pen	KB700-BK	Pen (black)	10 pens/pack
Pouncing tool	PPA33-TP12	Steel pin 1.2 mm diameter	1 set per pack
Cutting mat	PM-CR-005	For FC9000-75 replacing cutting mat	2 sets per pack
	PM-CR-006	For FC9000-100 replacing cutting mat	2 sets per pack
	PM-CR-007	For FC9000-140 replacing cutting mat	2 sets per pack
	PM-CR-008	For FC9000-160 replacing cutting mat	2 sets per pack

STANDARD ACCESSORIES			
Item	Qty	Description	
Power cord	1	The type of cord is different by destination	
USB cable	1	9.5 feet long	
Cutting blade holder	1	PHP33-CB09N-HS	
Cutting Blade	1	CB09UB	
Loupe	1	PM-CT-001	
Fiber-tip pen holder	1	PHP31-FIBER	
Water-based Fiber-tip pen	1	KF700-BK (black)	
Stand	1		
Media Stocker	1		
Basket	1		
Flange set	1	OPH-A21	
DVD-ROM	1	User manual, Windows driver, Graphtec Pro Studio (Windows, 1 license), Graphtec Studio (Mac), Cutting Master4	
Printed Document	1	Setup Manual, Cutter Blade Manual, and Safety Manual	

\*1 Operated with Graphtec-specified cutting conditions and media.

For long-length cutting, the basket is used.

\*2 There are conditions for operability when setting media.

\*3 HP-GL™ is a registered trademark of Hewlett-Packard Company.

\*4 CB15UA/CB15UA-K30 blades and reinforced backing sheets are recommended for certain grades of high-intensity reflective film.

\*5 Graphtec does not support software/driver used with operating systems that have become obsolete and are no longer supported by the OS developer.

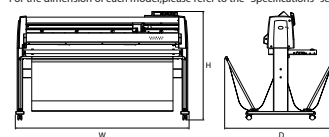
\*6 The software is available for download from Graphtec's website.

\*7 It requires an Internet connection in order for activation or registration.

\*8 Includes stand and basket.

#### External dimensions

For the dimension of each model, please refer to the "Specifications" section.



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