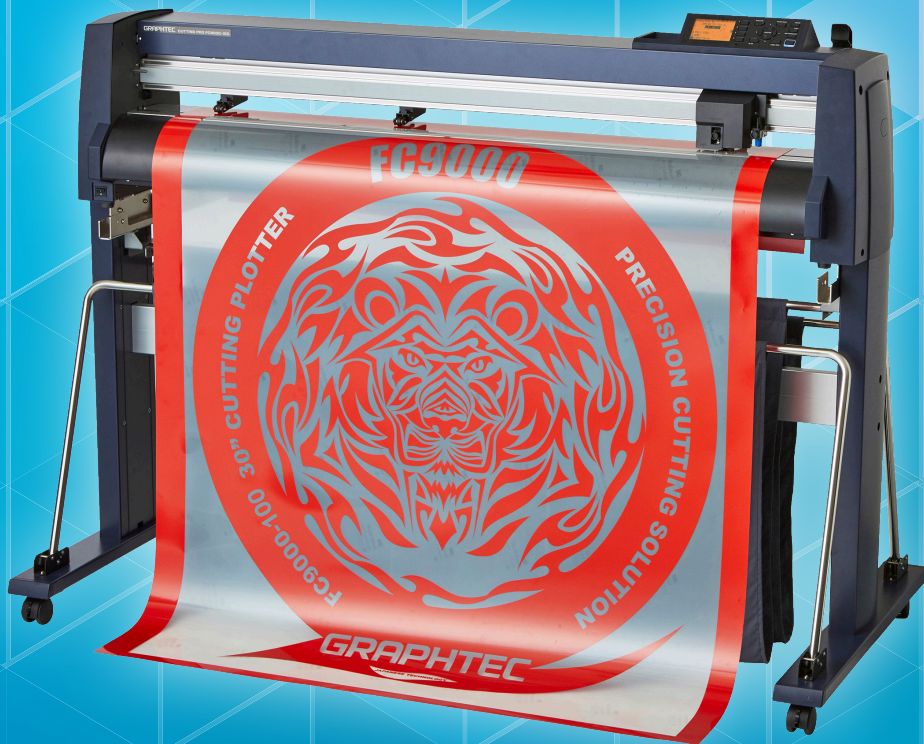
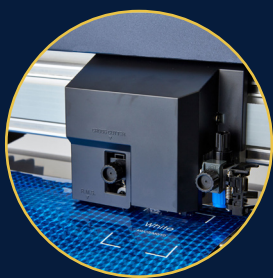


**GRAPHTEC**  
PRECISION CUTTING SOLUTIONS



# **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.

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# FC9000 SERIES

## HIGH PERFORMANCE

### BEST IN CLASS ABILITY

58.46 inches per second maximum cutting speed, 1543in/s<sup>2</sup> maximum acceleration, and 600gf maximum force. The FC9000 Series offers best-in-class productivity and abilities with a wider range of compatible medias from thick to thin.



Second pen holder kit (option)

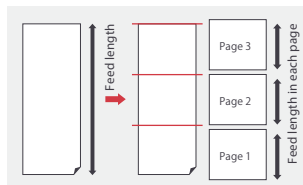
### WIDE CUTTING AREA FOR FULL MEDIA UTILIZATION

The Minimum cutting width is 1.96". The Maximum cutting width depends on the model.

	Media
FC9000-160	← 1626mm →
FC9000-140	← 1372mm →
FC9000-100	← 1067mm →
FC9000-75	← 762mm →

### AUTO PANELLING

This function automatically splits long-length jobs into smaller pages that are cut sequentially to prevent skewing.



### USER-FRIENDLY CONTROL PANEL

The 3.7" LCD display and easy-to-use control panel supports 10 languages.



### RELIABLE LONG-LENGTH TRACKING WITH AUTO TAKE-UP REEL (\*2)

The optional take-up reel supports cuts up to 50ft (\*1) and makes cutting large signs/POP's possible. Media may be automatically wound in either direction to improve efficiency.



(\*1) Operated with Graphtec specified media and conditions

(\*2) Corresponding Models: FC9000-140/160

Guaranteed accuracy length: 65 feet

(Under 4 feet per job)

Maximum diameter of winding roll:

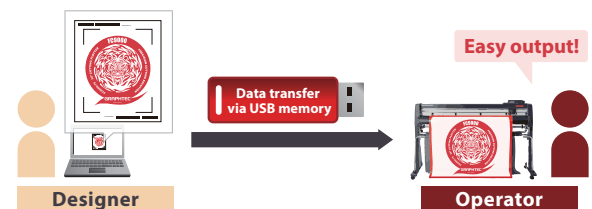
7 inches

Width of roll media should be the same as the width of the paper tube on the winding side.

Media cannot be wound if it is folded or overlapped inside the basket.

### LOAD AND CUT VIA USB FLASH MEMORY WITHOUT A PC

When cutting data designed with Cutting Master 4 or Graphtec Pro Studio/Plus is saved to USB Flash memory, it can be output directly to the cutting plotter by plugging in. This simplified workflow enables users to operate without a computer.



## ARMS 8.0 NEW & IMPROVED FUNCTIONS

The Advanced Registration Mark Sensing system delivers precise Print & Cut results by using sensors to detect registration marks and performs axis alignment. Efficiency boosting functions improve productivity for Print & Cut applications such as labels and decals.

### DATALINK BARCODE SYSTEM - CUTTING VIA USB

By reading the Graphtec barcode, the FC9000 automatically detects its linked data from PC or USB flash memory. This function is available regardless of which printer or RIP software is used.



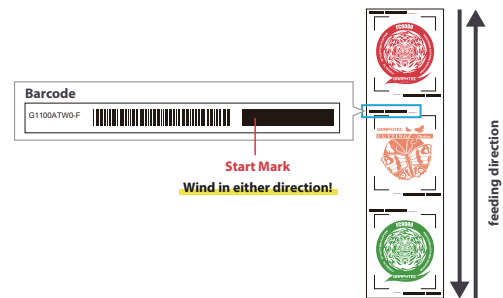
Print out design with Graphtec barcode attached.

Press the dedicated BARCODE key to start.

Quickly scans and starts cutting your design!

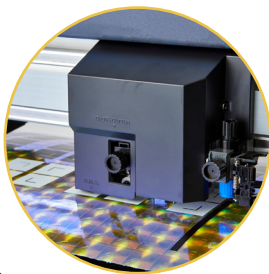
### DATALINK BARCODE SYSTEM - CONTINUOUS CUTTING

Barcode data management allows cutting different jobs with different data sequentially by detecting the Start Mark of each new job.



### SUPPORTS COLORED MARKS/ SPECIALTY MEDIA

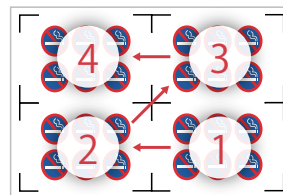
A wide variety of media types including holographic paper and reflective media are now compatible thanks to improvements of the ARMS sensor algorithm.



\* Sensor may not be able to read certain combinations of specialty media and colored marks.

### MULTIPLE MARK COMPENSATION

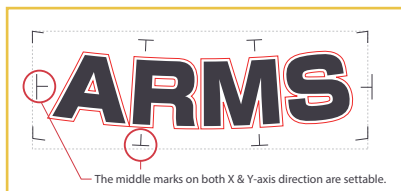
The action of reading the mark and contour cutting is repeated for each copy, significantly improving productivity for Print & Cut applications.



### SEGMENT AREA COMPENSATION (XY)

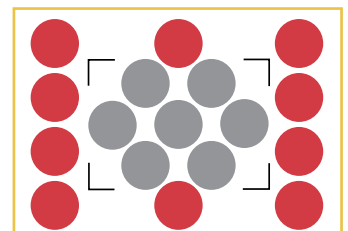
In addition to the current X-Axis Direction, new Y-Axis compensation has been added.

The sensor refers not only to the X but also Y-Axis to correct the distortion of media, greatly enhancing accuracy.



### EXPANDED CUTTING AREA

This function expands the cutting area to include printed objects outside of the enclosed registration marks - increasing production efficiency and reducing media waste.



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" × 164'	42" × 164'	54" × 164'	64" × 164'
Cutting area of guaranteed accuracy (*1)	29.21" × 50'	41.22" × 32' / 30" × 50'	53.22" × 32' / 30" × 50'	63.26" × 32' / 30" × 50'
Mountable media width	Min. (*2) Max. 1.96" 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	--		7.87" to 54" (option)	7.87" to 64" (option)
Take-up possible roll media mass	--		44 lbs (option)	
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)			
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	1 blade/pack
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-GLTM 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.

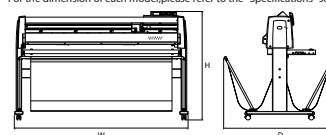
\*6 The software is available for download from Graphtec's website.

\*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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