Specifications							
Item		FC9000-75	FC9000-100	FC9000-140	FC9000-160		
Configuration							
Drive method		Grit rolling type Digital servo drive					
		30" × 164'	42" × 164'	54" × 164'	64" × 164'		
Max. cutting area (W x L) (*1) Cutting area of guaranteed accuracy (*1)			41.22" × 32' / 30" × 50'	53.22" × 32' / 30"× 50'	63.26" × 32' / 30" × 50'		
Mountable	Min. (*2)	29.21" × 50"   41.22" × 32 / 30" × 50"   53.22" × 32 / 30" × 50"   63.26" × 32 / 30" × 50"   1.96"					
media width	Max.	36.2"	48.18"	60.19" 72.83"			
Mountable roll media		2.99" to 7.87" (6.29" when the optic	1000	00.19	72.03		
Mountable roll media		2.99 to 7.87 (8.29 when the option 26 lbs	35 lbs	44 lbs	52 lbs		
Take-up possible roll		20 103	22 103	7.87" to 54"	7.87" to 64"		
Take-up possible roll		- 7.8/* to 54* 7.8/* to 64* - 44 lbs					
Maximum cross cut w		30"	42"	54"	64"		
Max. cutting speed	lutti		i -=	34	04		
Axial acceleration		58.46 inches per second at a 45° direction  Max. 1543 in/s² at 45° direction					
Cutting force		Max. 1545 III/5* at 45 direction  Max. 5.88N (600qf)					
Minimum character si	70	Approx. 5 mm alphanumeric (varies depending on character font and media)					
Mechanical resolution		0.005mm					
Programmable resolution		GP-GL : 0.1/0.05/0.025/0.01mm HP-GL™ (*3) : 0.025mm					
Repeatability (*1)	tion	Max. 0.1 mm in plot up to 2 m (Excluding media expansion and contraction)					
Number of push rolle	rc	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 0.25mm or less Marking film (PVC film / fluorescence / reflective), Polyester film (on condition),					
wedia types		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					
compatible 05 ( 5)		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					
		50 to 95 °F, 35 to 75 % R.H. (non-condensing)					
		50 to 89 °F, 35 to 70 % R.H. (non-condensing)					
External dimensions (		Approx. 53" x 45" x 48"	Approx. 65" x 45" x 48"	Approx. 77" x 45" x 48"	Approx. 87" x 45" x 48"		
Weight (approx.) (*8)	, , -,	108 lbs	123 lbs	141 lbs	154 lbs		
5 . 11				178 lbs with automatic take-up rolle	r 195 lbs with automatic take-up roller		
Safety		PSE, UL/cUL, 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)

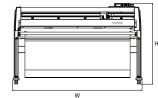
VCCI Class A, FCC Class A, CE mark

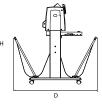
Supplies			
Item	Part No.	Description	Package
Cutting blade holder PHP33-CB09N		For CB09U series blade	1 set/pack
	PHP33-CB15N-HS	For CB15U series blade	1 set/pack
PHP35-CB09-H		For CB09U series blade	1 set/pack
	PHP35-CB15-HS	For CB15U series blade	1 set/pack
Cutting blade	CB09-P	0.9mm dia. 45° angle, 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		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/pack
Fiber-tip pen holder	PHP31-FIBER	Pen holder for KF700 series pen	1 set/pack
Water-based	KF700-BK	Pen (black)	10 pens/pack
fiber-tip pen	KF700-RD	Pen (red)	10 pens/pack
Ballpoint pen holder	PHP34-BALL	Pen holder for KB700 pen	1 set/pack
Oil-based ballpoint pen	KB700-BK	Pen (black)	10 pens/pack
Pouncing tool	PPA33-TP12	Steel pin 1.2 mm dia.	1 set/pack
Cutting mat	PM-CR-005	For FC9000-75 replacing cutting mat	2 set/pack
	PM-CR-006	For FC9000-100 replacing cutting mat	2 set/pack
	PM-CR-007	For FC9000-140 replacing cutting mat	2 set/pack
	PM-CR-008	For FC9000-160 replacing cutting mat	2 set/pack

Item	Q'ty	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

- 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
- 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 The software is available for download from Graphtec's website.
- \*7 It requires an Internet connection in order for activation or registration when starting the software for the first time
- \*8 Includes stand and basket.

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





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• Items mentioned are subject to change without notice. For more information about product, please check the web site or contact your local representative

For using equipment correctly and safely

•Please read the user's manual before use and operate accordingly.

·To avoid an occurrence of malfunction or an electric shock, please ensure around connection and use a specified power source

FC9000\_JE10548\_1F

## **GRAPHTEC**

# **High-Performance** FC9000 75/100/140/160 Series



#### Re-engineered for greatness

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.

# Precision Cutting Solutions www.graphtecamerica.com

#### 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)

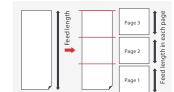
#### Wide cutting area for full media utilization

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

					Me	edia
	00-160	Ŧ	64"	_		<b>→</b>
FC90	00-140	ŧ	54"	_	$\rightarrow$	
FC90	00-100	+	42"	_	<b>→</b>	
FC9	000-75	<b>←</b>	30"	$\rightarrow$		
				,		

#### Auto panelling

This function automatically splits longlength 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/POPs with stable paper carriages possible. Media may be automatically wound in either direction to improve efficiency.



- •Guaranteed accuracy length: 65 feet (Under 4 feet per job)
- Maximum diameter of winding roll:  $\phi$ 7 inches
- \* Winding conditions: -End face of roll media and end face of paper tube should be aligned. -Width of roll media should be the same as the width of the paper tube on the winding side.
- \* It cannot be wound if media is folded or overlapped inside the basket.

#### Load & cut via USB flash memory without a PC

When cutting data designed with Cutting Master 4 or Graphtec Pro Studio / Plus are saved to USB flash memory, they can be output directly to the cutting plotter by plugging in. This simplified work-flow enables users to operate without a computer.







#### Improved Application Software



CorelDRAW Graphic Suite. It sends cutting data to the plotter and includes a variety of functions such as: preview, registration mark creation, tool conditions, cut job settings and more. Cutting Master 4 is easy to use and

Supported OS (*3)	Windows 10/8.1/7, Mac OS X 10.7~macOS 10.14
Supported software (*3)	Adobe Illustrator: CC2019/CC2018/CC2017/CC2015.3/CC2015/CC2014/CC/C56/CS5/CS4 (*4) Corel DRAW: Graphics Suite 2018/2017/X8/X7/X6/X5/X4

- Move, expand, and shrink objects directly from the previe
- Create object outline, detect the line width and overlap
- Split an object into small pieces with the tilling function

### Graphic design software

#### **Graphtec Pro Studio Graphtec Studio**



enhanced functions such as auto-shapes, shading, and editing in addition to configuring cutting conditions and managing settings on the plotter. EPS, Ai(\*5), CMX(\*5), and PDF(\*5) file formats are supported. Graphics created

Supported OS (*3)	Graphtec Pro Studio	Windows10/8.1/ 7
	Graphtec Studio	Mac OS X 10.6∼macOS 10.14
<main features=""></main>		

- Texts edit (rotate, mirror, fit-to-shape, etc.)
- ting bmp, tiff, jpeg, etc. image forr
- nectable and switchable to multiple plotter
- Laver (\*5) Output by colour Insert weeding line (\*5)

## Multi-Function Optional Software





is optional software with functions for improving productivity and advanced design. Additional functions include: transformation of characters and graphics, automatic sequence number insertion, bar-code eation, templates for rhinestone creation, nesting, directional change o cutting lines, changing cutting order, and more.

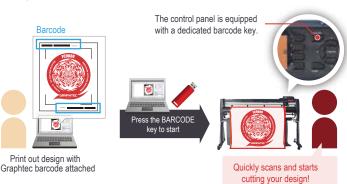


### ARMS 8.0 New and improved functions

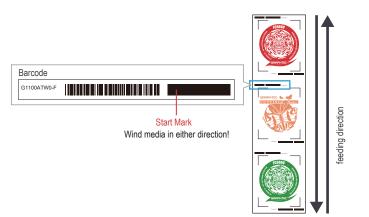
The Advanced Registration Mark Sensing system delivers precise Print & Cut results by using sensors to detect registration marks and performance axis alignment. Efficiency boosting functions improve productivity for Print & Cut applications such as labels and decals.

#### 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.

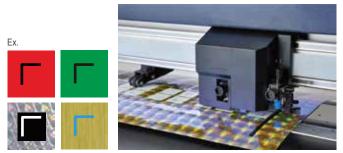


#### Datalink Barcode System - Continuous cutting Barcode data management allows cutting different jobs with different data sequentially by detecting the Start Mark of each new job.



#### Supports colored marks / specialty media

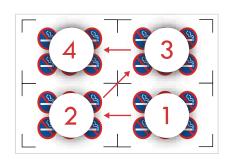
A wide variety of media types including holographic paper and reflective sheets are now compatible thanks to improvements of the ARMS sensor algorithm.



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

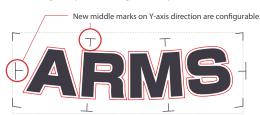
## Multiple-mark compensation

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.

