# **GRAPHTEC**

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# CUTTING PRO FC 9000 Series

# World's best cutting quality

High-end flagship model with advanced operation and efficiency-boosting features



# **Highest Level Performance**

Best performances in its class of grit-rolling cutting plotters.

# **High Productivity**

Equipped with advanced functions for high productivity, such as enhancing ease-of-use and shortening cutting time.

# **Useful Software**

Easily create and cut high quality designs with included software.

# **Highest Level Performance**

### Best in class ability

1485mm/s maximum cutting speed, 39.2m/s2 maximum acceleration, 5.88N (600gf) maximum cutting force.

The FC9000 Series offers best in class productivity and abilities with a wider range of medias from thick to thin.



Second pen holder kit (option)

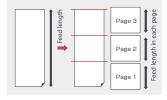
### Wide area for full use of paper

Minimum cutting width is 50mm (1.96 inch). Maximum cutting width depends on each machines: 762mm (30 inch), 1067mm(42 inch), 1372mm (54 inch), 1626(64 inch).

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

# Auto panelling

To prevent skew of long-length cutting, this function makes possible to automatically split long-length jobs into smaller pages that are cut sequentially. It shortens feed length and enables stable cutting. It is useful for cutting with higher accuracy or beyond guaranteed long length.



# **User-friendly control panel**

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



### Reliable long-length tracking (Automatic Take-up Roller)

It supports long-length, 15m (50ft) (\*1) and makes possible to cut large signs/pops with stable paper carriage and high accurate cutting quality. In addition, if Automatic Take-up Roller as option (\*2) is equipped to plotter, it becomes possible to automatically wind media and improve your work

efficiency.



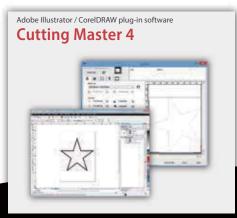
- - •Guaranteed accuracy length:20m (Under 1.2m per job)
  - •Maximum diameter of winding roll: φ180mm
  - \* Winding conditions: -End face of roll media and end face of paper tube should be aligned.
  - -Width of roll media should be the same as width of paper tube at winding side. \* It cannot be winded if media is folded or overlapped inside the basket.

# Data output via USB flash memory without 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**



Cutting Master 4 is Graphtec plug-in software for Adobe Illustrator and 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 enables you to get the best performance from your plotter. Trim marks for Adobe Illustrator is finally available

Supported OS (*3)	Windows 10/8.1/7, Mac OS X 10.7~macOS 10.14
	Adobe Illustrator : CC2019/CC2018/CC2017/CC2015.3/CC2015/CC2014/CC/C56/C55/C54 (*4 CoreIDRAW : Graphics Suite 2019/2018/2017/X8/X7/X6/X5/X4

- Move, expand, shrink the object directly from the preview window

  Create object outline, recognize the line width and overlap

  Output by layer or color

  Insert weeding line
- Split an object into small pieces with tilling function Connectable and switchable to multiple plotters

# Graphic design software **Graphtec Pro Studio Graphtec Studio**



Easy-to-use application software for creating original designs. It has many enhanced functions such as auto-shapes, shading, and editing functions. It can also configure the cutting conditions and other setting on plotter. EPS, Ai(\*5), CMX(\*5), and PDF(\*5) file formats are supported. Graphics created with other popular design software can be imported into the

Supported OS (*3)	Graphtec Pro Studio	Windows10/8.1/ 7
	Graphtec Studio	Mac OS X 10.6∼macOS 10.14

- Create designs using auto-shape, various line types, etc
   Texts edit (rotate, mirror, fit-to-shape, etc.)
- Auto-trace (supporting bmp, tiff, jpeg, etc. image format)

  Connectable and switchable to multiple plotters
- EPS, DXF format files and other raster format files are supported
   Layer (\*5)
   Output by colour
   Insert weeding line (\*5)

# **Multi-Function Optional Software**



NEW LINEUP Limited Edition Software

· Graphtec Pro Studio Plus for Rhinestone Graphtec Pro Studio Plus for Auto Nesting

Graphtec Pro Studio Plus is the enhanced edition of Graphtec Pro Studio. It 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 creation, templates for rhinestone creation, nesting, directional change of cutting lines, changing cutting order, and more.

Supported OS (\*3) Windows 10/8.1/7

### <Main Features of Graphtec Pro Studio Plus>

- Text and shape deformation, shadow / stripe effects
   Spelling check
- Vector © Filter for bitmap image Power Nest (Nesting)
   Serialized numberings, Barcode, QR code, etc. Cutting simulation (Changing cutting order) Output by layer or color insert weeding line

<Main Features of Graphtec Pro Studio Plus for Rhinestone>

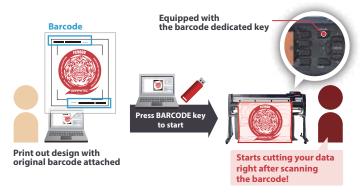
- <Main Features of Graphtec Pro Studio Plus for Auto Nesting>
- Nesting (Auto, Power Nest, intelligent)

# Improved ARMS for high precision cutting (ARMS 8.0)

The Advanced Registration Mark Sensing system delivers precise Print & Cut results by using sensors to detect registration marks and perform axis alignment. Countless efficiency boosting features improve productivity for print & cut applications such as stickers and decals.

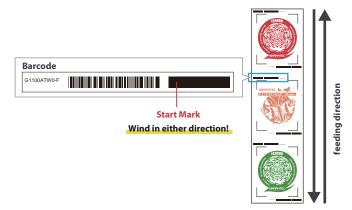
### Data Link Function (Barcode Data Management/Continuous Cutting)

By reading Graphtec original barcode, 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.



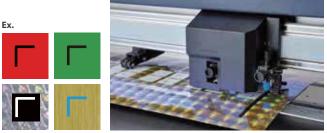
### **Continuous Cut (Data Link function)**

Barcode data management allows cutting different data sequentially by detecting the "Start Mark" of the new type of barcode. Sequential P&C process with roll-media is now available.



# Supports colored marks / specialty media

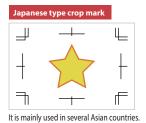
A wide variety of media types including holographic paper and reflective sheets are now compatible due to improvements of the ARMS sensor algorithm.

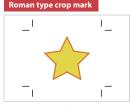


 $^{\ast}$  Sensor may not be able to read certain combinations of specialty media and colored marks.

# **Supports Adobe Illustrator "Crop Marks"**

Using the plug-in software Cutting Master 4, Adobe Illustrator crop marks will be availble.

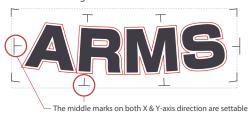




It is commonly used in many countries.

## **Segment Area Compensation (XY)**

This function has been implemented in addition to the current X-axis Direction Segment Area Compensation. Middle mark is now available not only for X but also Y-axis allignment.



### **Expanded Cutting Area**

It expands the cutting area to include objects outside of the area enclosed by registration marks. Production efficiency is enhanced by 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)	762mm × 50m	1067mm × 50m	1372mm × 50m	1626mm × 50m	
Cutting area of guaranteed accuracy (*1)	742mm × 15m	1047mm × 10m / 762mm × 15m	1352mm × 10m / 762mm × 15m	1607mm × 10m / 762mm × 15m	
Mountable Min. (*2)	50mm				
media width Max.	920mm (36.2 inch)	920mm (36.2 inch) 1224mm (48.1 inch) 1529mm (60.1 inch) 1850mm (72.8 inch)			
Mountable roll media diameter	76 to 200mm (160mm when the op	tional paper flange (OPH-A21) is insta	alled)		
Mountable roll media mass	12kg	16kg	20kg 24kg		
Compatible take-up roll width	-		200 to 1372mm	200 to 1626mm	
Compatible take-up roll mass	-		20kg		
Maximum cross cut width	762mm	1067mm	1372mm	1626mm	
Max. cutting speed	1485 mm/s at 45° direction				
Axial acceleration	Max. 39.2m/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	0.005mm				
Programmable resolution	GP-GL: 0.1/0.05/0.025/0.01mm				
Repeatability (*1)		uding media expansion and contract			
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-base				
Media types		ilm (PVC film / fluorescence / reflectiv	e), Polyester film (on condition),		
	High Intensity reflective film (Diamond grade, Engineer grade) (*4)				
Display		Graphic type LCD with back-light (240dots x 128dots), supports 10 languages			
Interface	USB 2.0(Full Speed), Ethernet 10BAS	SE-T/100BASE-TX			
Buffer memory	2MB				
Command sets	GP-GL / HP-GL™ (Set by command of	or auto-detect) (*3)			
Compatible OS (*5)	Windows 10/8.1/7	Windows 10/8.1/7			
		12 ~ 10.14 (Graphtec Studio: 10.6 - 1			
Supported software (*6)		Graphtec Studio(Mac), Cutting Maste	er 4(*7), Windows Driver		
Power source	100 V to 240 V AC, 50 / 60 Hz				
Power consumption	Max. 120W				
Operating environment	10 to 35 °C, 35 to 75 % R.H. (non-coi				
Guaranteed accuracy environment	16 to 32 °C, 35 to 70 % R.H. (non-condensing)				
External dimensions (W x D x H) (*8)	Approx. 1360 x 1151 x 1232 mm	Approx. 1665 x 1151 x 1232 mm	Approx. 1970 x 1151 x 1232 mm	Approx. 2224 x 1151 x 1232 mm	
Weight (approx.) (*8)	49 kg	56 kg	64.0 kg (80.9kg with installed	70.0 kg (88.5kg with installed	
			automatic take-up roller)	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)
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 Pac	
Cutting blade holder	PHP33-CB09N-HS	For CB09U series blade	1 set/pack
	PHP33-CB15N-HS	For CB15U series blade	1 set/pack
	PHP35-CB09-HS	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	1.5mm dia. 30° angle, for high intensity reflective film	5 blades/pack
Cross-cutter blade	PM-CC-002	Supersteel 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		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.	
Cutting mat	PM-CR-005	For FC9000-75 replacing cutting mat	2 sets/pack
	PM-CR-006	For FC9000-100 replacing cutting mat	2 sets/pack
	PM-CR-007	For FC9000-140 replacing cutting mat	2 sets/pack
	PM-CR-008	For FC9000-160 replacing cutting mat	2 sets/pack

Standard accessories		
Item	Qty	Description
Power cord	1	The type of cord is different by destination.
USB Cable	1	2.9m long
Cutting blade holder	1	PHP33-CB09N-HS
Cutting Blade	1	CB09UB-1P
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	
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 Craphter specified sytting condition and media		

- Operated with Graphtec specified cutting condition and media. For long-length cutting, the basket is used.

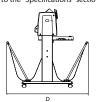
- There are conditions for operability when setting media.
  HP-GL™ is a registered trademark of Hewlett-Packard Company.
  CB15UA/CB15UA-K30 blades and reinforced backing sheets
  are recommended for certain grades of high-intensity reflective film.
  Graphtec does not support software/driver used with operating systems that have become obsolete and are no longer supported by the OS developer. The software can be used by downloading from Graphtec website. It requires an Internet connection in order for activation or registration when starting the software for the first time.

- Includes stand and basket.

### **External dimensions**

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 in correctly and safely

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

-To avoid an occurrence of malfunction or an electric shock by leakage, please ensure ground connection and use it in specified power source.



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