Specifications								
Model		FC8600-60	FC8600-75	FC8600-100	FC8600-130	FC8600-160		
CPU		32-bit CPU						
Configuration		Grit rolling type						
Orive method		Digital servo drive						
Maximun cutting area (W x		610 mm x 50 m	762 mm x 50 m	1067 mm x 50 m	1372 mm x 50 m	1626 mm x 50 m		
Cutting area of guaranteed accuracy *2		590 mm x 15 m	742 mm x 15 m	1043 mm x 10 m,	1342 mm x 10 m,	1603 mm x 10 m,		
	•			894 mm x 15m	894 mm x 15 m	894 mm x 15 m		
Mountable media width	Minimum	50 mm						
nountable media width	Maximum	770 mm 920 mm 1224 mm 1529 mm 1850 mm						
Maximum cross cut width		734 mm	886 mm	1191 mm	1496 mm	1750 mm		
lumber of push rollers		2 rollers	2 rollers	3 rollers	3 rollers	4 rollers		
Maximum cutting speed		2 Tollers 3 Tollers 4 Toll						
xial acceleration		1465 HINDS 414 5 GRECORD MAX. 39.2 m/s ² (4 G)) in 8 steps						
cutting force		Max. 5.98.8 N (600 df) in 48 steps						
Mechanical resolution		Midax 3.00 in (000 gi) iii 40 steps						
rogrammable resolution		0.005 fmm GP-GL: 0.1 / 0.05 / 0.025 / 0.01 mm, HP-GL TM : 0.025 mm						
Distance accuracy *2		GF-GL 0.17 0.03 0.023 7.001 min, nF-GL ''': 0.025 min						
Repeatability *2		Max. 0.1 mm or 0.1 % or piotied length Max. 0.1 mm in plot up to 2 m (excluding the expansion and contraction of the media)						
Minimum character size		Max. 0.1 mm in plot up to 2 m (excluding the expansion and contraction of the media) Approx. 3 mm alphanumeric (varies depending on character font and media)						
Mountable number of tools								
Blade types		1 tool (cutting blade, plotting pen or pouncing tool) in standard; 2 tools (cutting blade and plotting pen) when second penholder (optional) is installed						
		Supersteel (0.9 mm or 1.5 mm diameter)						
Pen types		Water-based fiber-tip pen, Oil-based ballpoint pen						
Pouncing tool type Media types *3		Steel pin 1.2 mm diameter, required optional pouncing tool (PPA 33-TP12)						
riedia types "		Self-adhesive marking film (vinyl, fluorescent, reflective, high-intensity reflective film) up to 0.25 mm thick,						
		Sandblast resist rubber up to 1 mm thick						
Compatible paper for pouncing		Regular paper from 0.06 to 0.13 mm thick						
Light pointer		Built into the tool carriage						
Cross-cutter		Built into the tool carriage						
Perforation cutting		Supported (performed by force control)						
Registration mark sensing system		Scans the mark by optical sensor (ARMS5.0), Segment area and Multiple-mark compensation, 4-points axis alignment, Auto mark detect						
Standard interface		USB2.0 (Full speed), RS-232C, and Ethernet (10BASE-T/100BASE-TX)						
Buffer memory		2 MB						
Command sets		GP-GL / HP-GL TM emulation (Set by menu or command, and selects from GP-GL, HP-GLTM, or Auto select)						
Condition settings		Dual configuration (save two (2) user settings with eight (8) separate condition setting for each user)						
Display		Graphic type LCD (3-inch, backlight)						
Power source		100 V to 240 V AC, 50 / 60 Hz						
Power consumption		Max. 160 VA						
Operating environment		10 to 35 °C, 35 to 75 % R.H. (non-condensing)						
Guaranteed accuracy environment		16 to 32 °3C, 35 to 70 % R.H. (non-condensing)						
External dimensions (W x D x H) (approx.)		1128 x 715 x 1219 mm	1278 x 715 x 1219 mm	1578 x 715 x 1219 mm	1878 x 715 x 1219 mm	2138 x 715 x 1219 mm		
Weight (approx.)		38 kg including stand	42 kg including stand	46 kg including stand	54 kg including stand	59 kg including stand		
Included software *4		Windows driver, Plotter controller, Graphtec Studio, and Cutting Master 3						
Compatible OS *4		Windows 8 (8 / Pro / Enterprise)						
		Windows 7 (Ultimate / Enterprise / Professional / Home Premium)						
		Windows Vista (Ultimate / Enterprise / Business / Home Premium / Home Basic)						
		Windows XP (Professional / Home Edition)						
		Macintoch OS 10 5 8 to 10 9						
Compatible Standards	Safety	Macintosh OS 10.5.8 to 10.8	ow voltage and EMC), KC mark	(Low voltage and EMC)				

- *1 When the 2nd pen holder is installed, the maximum cutting width is changed. (FC8600-60: 601 mm, FC8600-75: 753 mm, FC8600-100: 1053 mm, FC8600-130: 1352 mm, FC8600-160: 1613 mm)

- *2 Operated with Graphtec specified media and conditions. In long-length cutting, the basket is used.

 *3 When some grades of high-intensity reflective film is used, the using CB15UA/CB15UA-K30 blade and reinforcing the backing sheet of the media are recommended.

 *4 For more information about compatibility of the OS or application software, please check the Graphtec website or contact your local representative of Graphtec.

Options		
Item	Part No.	Description
Media stocker	RSK0020	For FC8600-60 (Stock roller, bracket)
	RSK0021	For FC8600-75 (Stock roller, bracket)
	RSK0022	For FC8600-100 (Stock roller, bracket)
	RSK0023	For FC8600-130 (Stock roller, bracket)
	RSK0024	For FC8600-160 (Stock roller, bracket)
2nd pen holder	ECK0009	2nd pen holder (dealer option)
Flange	OPH-A21	Flange for media holding
Additional push roller	OPH-A22	One additional push roller

Item	Part No.	Description	Package
Blade holder	PHP33-CB09N-HS	For 0.9mm dia. blade (CB09U series)	1 set/pack
	PHP33-CB15N-HS	For 1.5mm dia. blade (CB15U series)	1 set/pack
	PHP35-CB09-HS	For 0.9mm dia. blade (CB09U series)	1 set/pack
	PHP35-CB15-HS	For 1.5mm dia. blade (CB15U series)	1 set/pack
Cutting blade	CB09UB-5	0.9mm dia. supersteel blade	5 blades/pack
	CB09UB-K60-5	0.9mm dia. 60° angle, for cutting thin film	5 blades/pack
	CB15U-5	1.5mm dia. supersteel blade	5 blades/pack
	CB15U-K30-5	1.5mm dia. 30° angle, for cutting sandblast rubber	5 blades/pack
	CB15U-K20-2SP	1.5mm dia. 20° angle, for cutting sandblast rubber	2 blades/pack
	CB15UA-5	1.5mm dia. for cutting high intensity reflective film	5 blades/pack
	CB15UA-K30-5	1.5mm dia. 30°, for cutting high intensity reflective film	5 blades/pack
	CB15UB-2	1.5mm dia. for cutting small character	2 blades/pack
Cross-cutter blade	CT01H	Standard type	1 blade/pack
	CT02U	High durability type	1 blade/pack
Fiber-tip pen holder	PHP31-FIBER	For KF700 series pen	1 set/pack
Water-based fiber-tip pen	KF700-BK	Black colour pen	10 pens/pack
	KF700-RD	Red colour pen	10 pens/pack
	KF700-BL	Blue colour pen	10 pens/pack
Ballpoint pen holder	PHP34-BALL	For KB700 pen	1 set/pack
Oil-based ballpoint pen	KB700-BK	Black colour pen	10 pens/pack
Pouncing tool	PPA33-TP12	Steel pin 1.2 mm dia.	1 set/pack

Item		Q'ty	Description	
Power cord		1	The type of cord is different by destination	
Cutting blade holder		1	PHP33-CB09N-HS	
Cutting blade		1	CB09UB	
Fiber-tip pen holder		1	PHP31-FIBER	
Water-based fiber-tip pen		1	KF700-BK (black ink)	
Stand		1	Parts kit of stand	
Media stocker		1	Set of stock rollers and mounting brackets	
			(Installed on the stand)	
	PG0039		Parts kit for FC8600-60	
	PG0040		Parts kit for FC8600-75	
Basket	PG0041	1	Parts kit for FC8600-100	
	PG0042		Parts kit for FC8600-130	
	PG0043		Parts kit for FC8600-160	
USB cable		1	Cable for USB2.0, 2.9m long	
DVD-ROM		1	User manual (PDF format), Windows driver,	
			Software (Plotter controller, Graphtec Studio	
			Cutting Master 3)	
Manual		2	Quick start and safety guide	

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EP321305_AD Vol.1

GRAPHTEC

Cutting Plotter

FC8600 60/75/100/130/160 series NEW

Grit-rolling cutters with superior productivity and operation



New Feature

Software

Including improved design application software (Graphtec Studio) and plug-in software for Illustrator and CorelDRAW (Cutting Master 3)

ARMS5.0

Enhanced ARMS, improved precision cutting and productivity in Print & Cut application

Network Interface

Built-in Ethernet (10BASE-T/100BASE-TX), ease of use in networked environments



Fastest cutting speed in its class

1485 mm/s maximum cutting speed for the higher productivity.

Highest cutting force in its class

5.88 N (600 gf) maximum cutting force for a wide variety of applications. Expands the range of possible cutting media such as thick film.

Reliable long-length tracking

Guaranteed 15m tracking and accuracy.*1 Includes basket and push rollers with 3 different pressure settings*2 to provide a more stable media feed and to support a wider range of media.

- *1: Operated with Graphtec specified media and conditions.
- the end push rollers have two pressure settings





to 162 cm (64 in.).

- FC8600-130 137cm (54 in.) -FC8600-100 ← 106cm (42 in.) —
- FC8600-75 ←76cm (30 in.) → FC8600-60 ←61cm (24 in.) →



Auto cross cut

The cross cutter is built into the tool arriage. Cross cutting is executed



Enhanced functions for higher productivity

Copy with ARMS NEW

The new fifth generation ARMS5.0 provides high-precision print & cut. It supports the copying of the cutting data including the ARMS control command for making multiple copies of the downloaded data. This allows multiple copies to be created without a PC, significantly improving work efficiency. The media can be also separated by each row with the cross cutter when the cross cut function is enabled.





your plotter.

*For more information about compatibility of the OS or application software, please check the Graphtec website or contact your local representative of Graphtec

Cutting Master 3

upported OS* Windows8/7/Vista/XP Mac OS X 10.5.8 to 10.8

Built-in network interface NEW

The USB 2.0 (Full Speed), RS-232C and Ethernet (10BASE-T/100BASE-TX) are built in as standard. Multiple interfaces enable various connections such as a single PC to single plotter and multiple PCs to multiple plotters. The Ethernet connection. also allows sharing of the cutter over a network.







Improved application software



<Main Features>

- •Editing the position, enlarging and reducing the graphic directly
- within the preview windows Creating an outline of a letter, recognising a line width and the overlap Output by a layer or colour, and inserting a line for weeding
- Splits an object into small pieces with the tiling function



Design application software

Graphtec Studio

This is an easy-to-use application software for creating original designs. It has enhanced features such as auto-shapes, shading, and editing functions. It can also configure the cutting conditions and other functions on the plotter

Supported OS* Windows8/7/Vista/XP Mac OS X 10.5.8 to 10.8

<Main Features>

- Creating designs using autoshape, various line type
- Editing text using rotate, mirror, fit-to-shape,
- Autotrace (supporting bmp, tiff, ipeg, etc. image format)

Enhanced functions for high productivity

Intuitive operation

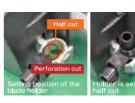
Settings can be easily set up using the large 3-inch LCD and tactile control panel. It is icon driven and supports multiple languages.





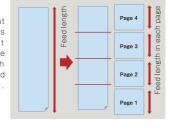
Perforation Cutting

Perforation cutting is performed by controlling the cutting force instead of blade up/down movements, increasing throughput. This is perfect for cutting separation lines for tearing out labels fold lines for POP signs, and others.



Auto-paneling

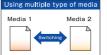
Auto-paneling is a new feature that automatically splits long-length jobs into smaller pages that are cut sequentially but without any gaps. The result is a seamless, long-length finished job. Media movement is limited to the smaller page being cut. improving accuracy and tracking.



Dual configuration

Save two (2) user settings with eight (8) condition settings for each user. A fast access key allows quick switching between users. One cutter can be shared by multiple users or for multiple purposes





2 tool configuration for cutting & plotting (Option)

It holds both a pen for plotting and a blade for perforated cutting. The tool is automatically switched for cutting and plotting as needed.



Plotter control software Included software

This software can control various

settings of the FC8600 from the PC,

improving work and operating efficiency. This controller can be

started from the plotter driver when

the print operation is executed by the

print menu of the application software.

It can be run concurrently with the

design software so the design and

cutter control windows are open to

smoothly run a series of tasks from

image design to cutting media.

Supported OS*2 Windows8/7/Vista/XP

Plotter Controller

- The media stocker can be added for storing multiple roll media (Option, up to three)
- The media can be loaded from the rear or front by changing the direction of the stand

Cutting Master 2*

O	Windows 8 / 7 / Vista / XP / 2000		
Supported OS*2	Mac OS X 10.2 to 10.7 (Classic mode is not supported)		
Supported	Win	Adobe Illustrator (8 to CS5) CoreIDRAW (10 to X5)	
software*2	1400	Adaba III. strates (10 to 000)	

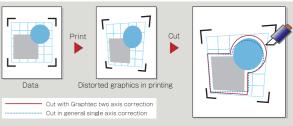
and CorelDRAW sends the cutting object created by the software to the control the plotter.

Improved ARMS 5.0 for high precision cutting

ARMS

Advanced Registration Mark Sensing System

4-point axis alignment This feature compensates for any direction on the X-axis and Y-axis using sophisticated fifth-generation algorithms. This leads to more accurate registration and improves the reliability and quality of Print & Cut.



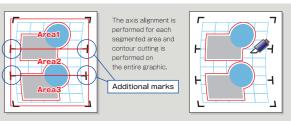


When the design is printed with the matrix copy function, the action of reading the marks and contour cutting is repeated for each copy. It significantly improve productivity for Print & Cut

This function is available when the Graphtec Studio, Cutting Master 3 or Cutting Master 2 software is used.

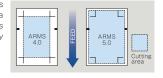
Segment area compensation

The 4-point axis alignment is performed for each segmented area. nis is performed by reading the mark in the middle of the feeding direction and provides high-precision alignment for long length Print & Cut applications.



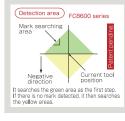
Expanded effective cutting area NEW

The new ARMS 5.0 expands the cutting area to include the area outside the registration marks. This increases the production efficiency by reducing media waste.



Auto mark detection NEW

The first registration mark is automatically detected within a wide search area: this eliminates the need to manually move the sensor near the registration mark position. Subsequent marks are automatically located which improves the operation of the registration mark searching.



Auto sensitivity adjust The sensitivity of the registration mark sensor is automatically set by

easuring the reflective level of the mark and the background of the actual media. The mark can be detected when the colour of the mark has a reasonable contrast against the background. For example, a white mark can also be detected on a coloured background.

Supports ARMS commands

The special command for controlling the registration mark sensing ARMS) is also supported. The setting parameter for ARMS can be set from the PC using the software.

> Cutting Master 2 / Cutting Master 3 Graphtec Studio / Plotter Controller

^{*1:} It can be downloaded from the Graphteo website. The expanded effective outling area for ARMS is not supported.
*2: For more information about compatibility of the OS or software, please check the Graphteo website or contact your local representative of Graphteo.