GRAPHTEC

Cutting Plotter



H-1048 Budapest, Hungary Nádasdy Kálmán u. 11/4. Phone/Fax: (+36-1) 230-1355 Mobile: (+36-30) 9483-955 E-mail: technorg@technorg.hu Internet: http://www.technora.hu

EC8600 60/75/100/130/160 series

Grit-rolling cutters with superior productivity and operation



Software

Plug-in software for Illustrator & CorelDRAW Cutting Master 4 Graphics design software Graphtec Pro Studioaphtec Pro Studió Plus

ARMS5.0

Enhanced ARMS, improved precision cutting and productivity

Network Interface

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

Additional Features >>

ISM (Intelligent Scan Mode)

Print & Cut application

Sequential cutting

A new scanning algorithm expands compatible Seguential contour cutting mode within the segment Import files in EPS, Ai, CMX, and PDF media and increases mark scanning success inarea compensation function improves accuracy of cutting and tracking of media in Print & Cut applicatioincreased compatibility with popular

EPS support

format to Graphtec Pro Studio for design software

www.graphteccorp.com



Fastest cutting speed in its

1485 mm/s maximum cutting speed for the high

Highest cutting force in its o

5.88 N (600 gf) maximum cutting force for a wid Expands the range of possible cutting media su

Reliable long-length trackin

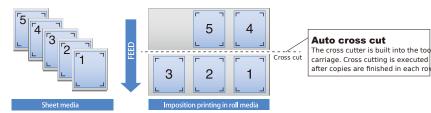
Guaranteed 15m tracking and accuracy.*1 Includes basket and push rollers with 3 different settings*2 to provide a more stable media feed and to support a wider range of media.

*1: Operated with Graphtec specified media and condit The center push rollers have 3 pressure set the end push rollers have two pressure settin



Copy with ARMS

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.



Improved application software

Plug-in software for Illustrator & CorelDRAW

Cutting Mast

Cutting Master 4 is Graphtec plug-in software for Adobe Illustrator and CorelDRAW Graphics Suite It sends cut data to the plotter and includes a variety of functions such as: preview, registratio mark creation, tool conditions, cut job settings a more. Cutting Master 4 is easy to use and enabl you to get the best performance from your plot



Supported Og ¹		Supported software ⁴	
Main Foot	roc		

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 Inserting a line for weeding Spits an object into small pieces with the tiling function Supports the connection and switching of multiple plotters

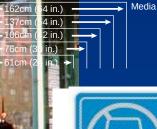


60

30

with graphi

includes cutting widths of 61 cm (24 in.) (64 in.).





Traffic sign (High-intensity reflection *Using cutting blade CB15UA or CB15UA recommended. In some grades of reflectiv proing the ba

Built-in network interface

The USB 2.0 (Hi-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.



Graphics design software

1.1 Start

Graphtec Pro Stuar **Graphtec Studio**

Easy-to-use application software for creating origi designs. It has enhanced functions such as auto-s shading, and editing functions. It can also configu cutting conditions and other settings on the plotte Importing of EPS, Ai, CMX* , and PDF* file types are supported. Graphics created with other popular de software can be imported into the software



Supported Og¹

Main Features

Creating designs using autoshape, various line type, etc. Autotrace (supporting bmp, tiff, jpeg, etc. image format) Import EPS, DXF format files and other raster format files Inserting a line for weeding

Editing text using rotate, mirror, fit-to-shape, etc. Supports the connection and switching of multiple plotters Output by a colou

*1 : For more information about compatibility of the OS or application software, please check the Graphtec website or contact your local representative2x Carapitageported only in Windows edition of Adobe Illustrated It is available on the Graphtec Pro Studio.

FC8600^{60/75/100/130/160}

Enhanced functions for high productivity



Cutt ed by the cutting force instead of blade u o/dow movements, increasing throughput perfect for cutting separation lines for tearin

out labels, fold lines for POP signs, and

ĿъГ

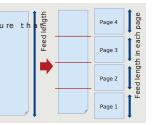
4 10100

osition of th<mark>elolder is set fo</mark> der half cut

Auto-paneling

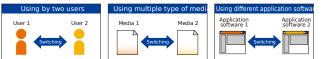
others.

Auto-paneling is a new feature th 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 ke allows quick switching between users. One cutter can be shared by multiple users or for multiple purposes



2 tool configuration cutting & plottingption



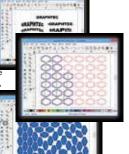
It holds both a pen for plotting and a blade for perforated cutting. The tool automatically switched for cutting and plotting as needed.

The media stocker can be added for storing multiple roll martin, up to three The media can be loaded from the rear or front by changing the direction of the sta

NEW

Option | Advanced software

Graphtec Pro Studio Graphtec Pro Studio Plus is the enhanced edition Graphtec Pro Studio. It is optional software with functions for improving productivity and advance design. Additional functions include: transformation characters and graphics, automatic sequence num insertion, barcode creation, templates for rhinesto creation, nesting, directional change of cutting lines changing cutting order, and more.



NEW LINEU Limited Edition Softw •Graphtec Pro Studio Plus for Rhinestone •Graphtec Pro Studio Plus for Auto Nesting

Supported Og^d Main Features

Malli Features Deformation, shadow, and stripe of texts and shapes Check the spelling Vectoring Filter for bitmap image The Park orde OR code, etc. Power Nest (Nesting) Check the spelling Vectoring Filter for bitmap Serialized number, Bar-code, QR code, etc. Po Cutting simulation (Changing cutting order) Output by a layer or colour Inserting a line for w



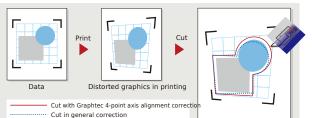
ARMS

Advanced Registration Mark Sensing System



-point axis alignment

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



Multiple-mark compensation

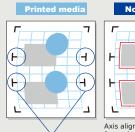
When the design is printed with the matrix copy function, the action of readir the marks and contour cutting is repeated for each copy. It significantly improve productivity for Print & Cut.

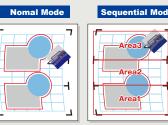
ion is available when the Graphtec Studio, Cutting Master 3 or Cutting Master 2 software is used



The 4-point axis alignment is performed for each segmented area. In Normal Mo performed by reading the mark in the middle of the feeding direction for the entire graphic and then cutting the entire graphic, provides high-precision alignment for long ler Print & Cut applications. In the new Sequential Mode, contour cutting is performed sequentially in each segmented area. Media movement is limited to the smaller area being

improving accuracy and tracking for heavier media or media that has been laminated. * Normal mode is available when Graphtec Studio, Cutting Master 2/3, or Plotter Controller sof is used. Sequential models available when Graphtets Studio, cutting Master 2/3, or Protect Controller soft is used. Sequential models available when Graphtets Studio (ver. 2.1.200 or later) or Cutting I 3 (ver. 2.1.211 or later) is used. This function is available in firmware version 2.10 or later. Me must be within the specification in range. Marks may not be detected due to poor printing qu media surface.





Additional marks

Axis alignment is performed Axis alignment is performed for each segmented area andfor each segmented area and contour cutting is performed contour cutting is performed on the entire graphic. sequentially on each area.

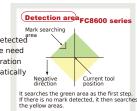
ARMS

xpanded effective cutting area

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

ρ Auto mark auto detection

frst 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.



Cutting



SM incorporates a new scanning algorithm that expands the range of

tble media. ISM increases the mark scanning success, and can also detect the registration mark on textured media, such as brushed aluminum, or glossy laminated materials that were difficult using the conventional method. * Media must be within the specification range. Marks may not be d This function is available in firmware version 2.10 or later. to poor printing guality or media surface

Auto sensitivity adjust

The sensitivity of the registration mark sensor is automatically set by measure ective level of the mark and the background of the actual media. The mark can detected when the colour of the mark has a reasonable contrast against the backgroun For example, a white mark can also be detected on a coloured background.

Specifications						
Model	FC8600-60	FC8600-75	FC8600-100	FC8600-130	FC8600-160	
CPU	32-bit CPU					
Configuration	Grit rolling type					
Drive method	Digital servo drive					
Maximun cutting area (W x L) (*1)	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	50 mm					
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	
Number of push rollers	2 rollers	2 rollers	3 rollers	3 rollers	4 rollers	
Maximum cutting speed	1485 mm/s at 45° direction					
Axial acceleration	Max. 39.2 m/s ² (4 G) in 8 steps					
Cutting force	Max. 5.88 N (600 gf) in 48 steps					
Mechanical resolution	0.005 mm					
Programmable resolution	GP-GL: 0.1 / 0.05 / 0.025 / 0.01 mm, HP-GL TM : 0.025 mm					
Distance accuracy (*2)	Max. 0.1 mm or 0.1 % of plotte					
Repeatability (*2) Max. 0.1 mm in plot up to 2 m (excluding the expansion and contraction of the media)						
Minimum character size Approx. 3 mm alphanumeric (varies depending on character font and media)			(antianal) is installed			
ountable number of tools 1 tool (cutting blade, plotting pen or pouncing tool) in standard; 2 tools (cutting blade and plotting pen) when second penholder (optional) is installed				(optional) is installed		
Blade types Supersteel (0.9 mm or 1.5 mm diameter)						
Pen types Water-based fiber-tip pen, Oil-based ballpoint pen Pouncing tool type Steel pin 1.5 mm diameter, required optional pouncing tool (PPA 33-TP12)						
Media types (*3)	Steer pin 1.5 mm diameter, required optional pouncing tool (PPA 33-1P12) Self-adhesive marking film (viny), fluorescent, reflective, high-intensity reflective film) up to 0.25 mm thick,					
Sandblast resist rubber up to 1 mm (viny, iluorescent, reliective, nigh-intensity reliective tilm) up to 0.25 mm thick,						
Compatible paper for pouncing	Sandolast resist rubber up to 1 mm trick Regular paper from 0.06 to 0.13 mm thick					
Light pointer	Regular paper nom 0.00 to 0.15 mm trick 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					
Alignment accuracy (*2)	Up to 0.3mm with printed image					
Standard interface		C, and Ethernet (10BASE-T/100	BASE-TX)			
Buffer memory						
mmand sets GP-GL / HP-GL TM emulation (Set by menu or command, and selects from GP-GL, HP-GL TM , or Auto select)						
Condition settings						
Display	Graphic type LCD (3-inch, backlight)					
wer source 100 V to 240 V AC, 50 / 60 Hz						
ower consumption Max. 160 VA						
Operating environment						
Guaranteed accuracy environment 16 to 32 °C, 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	
Compatible OS (*4)		8 / 7, Mac OS X 10.6 to macOS 10.14 (Graphtec Studio : 10.6-10.14, Cutting Master 4 : 10.7-10.14)				
Supported software (*4) (*5) Cutting Master 4, Graphtec Pro Studio, Graphtec Studio(for Mac)						
Compatible Standards Safety	UL/cUL, CE marking					
EMC FCC Class A , CE marking, VCCI Class A						

*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.

*5 The software can be used by downloading from Graphtec website.

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 (dealer option)
Graphtec Pro Studio Plus	OPS682-PLS	Design software including all advanced functions. (1 license)
Graphtec Pro Studio Plus	OPS682-RSF	Limited edition of rhinestone function only as an advanced functions
for Rhinestone		(1 license)
Graphtec Pro Studio Plus	OPS682-ANF	Limited edition of auto nesting function only as an advanced functions.
for Auto Nesting		(1 license)

Supplies			
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
	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 fil	m5 blades/pack
Cross-cutter blade	CT01H	Standard type	1 blade/pack
	CT02U	High durability 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	For KF700 series pen	1 set/pack
Water-based fiber-tip per	KF700-BK	Black colour pen	10 pens/pack
	KF700-RD	Red 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 1.5mm dia.	1 set/pack

Standard acce	ssories			
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	1	Parts kit for FC8600-160	
USB cable		1	Cable for USB2.0, 2.9m long	
DVD-ROM		1	User's manual, Windows driver, Plotter Controlle	
Printed document		1	Quick start and safety guide	

Brand names and product names listed in this brochure are the trademarks or registered trademarks of their respective owners.
 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 . The before using it, please read the user manual and then please use it properly in accordance with the description. . To avoid an occurrence of malfunction or an electric shock by leakage, please ensure ground connection and use it in specified power source. A

GRAPHTEC **Graphtec Corporation**

503-10 Shinano-cho, Totsuka-ku, Yokohama 244-8503, Japan Tel: +81-45-825-6250 Fax: +81-45-825-6396 Email:webinfo@graphtec.co.jp

Website http://www.graphteccorp.com



