Specifications of CE5000 series

Item	CE5000-40-CRP	CE5000-60	CE5000-120
CPU	32-bit CPU		
Configuration	Grit rolling		
Drive system	Digital servo		
Maximum cutting area	375 mm x 50 m	603 mm x 50 m	1213 mm x 50 m
	14.8 in x 164 ft	23.7 in x 164 ft	47.8 in x 164 ft
Range of guaranteed precision	356 mm x 2 m*1	584 mm x 5 m*1	1194 mm x 5 m*1
	14.0 in x 6.56 ft	23.0 in x 16.4 ft	47.0 in x 16.4 ft
Compatible media widths	Minimum: 50 mm Maximum: 484 mm	Minimum: 50 mm Maximum: 712 mm	Minimum: 85 mm Maximum: 1346 mm
	Minimum: 2 in , Maximum: 19.1 in	Minimum: 2 in , Maximum: 28.0 in	Minimum: 3.3 in , Maximum: 53 in
Maximum media thickness	0.25 mm		
Maximum cutting speed	60 cm/s (in all directions)		100 cm/s (45˚direction)
	24 in/s (in all directions)		40 in/s (45˚direction)
Specifiable cutting speeds	1-10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60 cm/s		1-10, 15, 20, 25, 30, 35, 40, 45, 50, 55, 60, * cm/s
Cutting force	0.2-2.9N (20 gf to 300 gf) (31 levels)		0.2-4.4N (20 gf to 450 gf) (38 levels)
Minimum character size	Approximately 5 mm for alphanumeric characters (varies depending on the medium, font, etc.)		
Mechanical resolution	0.005 mm (0.0002 in)		
Programmable resolution	GP-GL: 0.1/0.05/0.025/0.01 mm; HP-GLTM *2: 0.025 mm		
Repeatability precision	0.1 mm or less per 2 m*1		
No. of pens mountable	1 pen		
Compatible cutter type	Supersteel cutter blades		
Compatible pen type	Water-based fiber-tip pens		
Compatible cutting film	Marking film (PVC, fluorescent, or reflective film) up to 0.25 mm in thickness (excluding high-luminosity reflective film)		
Interfaces	RS-232C/USB 2.0 (Full Speed)		
Buffer capacity	2 MB		
Command modes	GP-GL, HP-GLTM *2(selected on the control panel)		
Display panel	Liquid crystal display (16 characters x 1 row)		
Rated power supply	100 to 240 V AC, 50/60 Hz		
Power consumption	100 VA		
Operating environment	10˚C to 35˚C, 35% to 75% RH		
Conditions for guaranteed precision	16˚C to 32˚C, 35% to 70% RH		
External dimensions (W x D x H)*3	Approx. 623 x 285 x 223 mm	Approx. 851 x 585 x 1004 mm	Approx. 1,487 x 744 x 1194 mm
	Approx. 24.5 x 11.2 x 8.8 in	Approx. 33.5 x 23.0 x 39.5 in *3	Approx. 58.5 x 29.3 x 47.0 in *3
Weight	Approx. 9.4 kg (20.7 lbs)	Approx. 25 kg (55.1lbs) *3	Approx. 40 kg (88.2lbs) *3

*1: Varies depending on the type of Graphtec-authorized film and the cutting conditions *2: HP-GLTM is a registered trademark of Hewlett-Packard Company. *3: Including the stand

Options

Designation	Part No.	Description
Basket	PG0022	Basket for CE5000-60
	PG0021	Basket for CE5000-120

Supplies

Designation	Part No.	Description
Cutter holder	PHP32-CB09N-HS	1 holder for the 0.9-mm-diameter supersteel blade
	PHP32-CB15N-HS	1 holder for the 1.5-mm-diameter supersteel blade
Cutter blade	CB09UA-5	Set of 5 0.9-mm-diameter supersteel blades
	CB15U-5	Set of 5 1.5-mm-diameter supersteel blades
	CB15UB-2	Set of 2 1.5-mm-diameter supersteel blades for cutting detailed characters
Water-based fiber-tip pen*	KF550-F8	1 pen each in red, black, violet, brown, blue, green, orange, and pink
	KF550-S1	2 black pens and 1 pen each in red, blue, and green
	KF551-RD	5 red pens
	KF552-BK	5 black pens
	KF555-BL	5 blue pens
	KF556-GR	5 green pens
Loupe	PHP-61LOUPE	Loupe with 6x magnification
Carrier sheet A3	CR09300-A3	Carrier sheet A3 for CE5000-40-CRP

* Other sets of water-based fiber-tip pens are also available in single colors (violet, brown, orange, or pink).

Accessories

AC power cord	1	
USB cable	1	
User Guide CD-ROM	1	
Quick Start Manual, Usage Precautions	1 each	
Cutter Plunger	1	
Cutter blade (CB09UA)	1	
Water-based fiber-tip pen	1	
Media cutter	1	
Stand	1	Option for CE5000-60 for some countries. Not attached for CE5000-40-CRP.
Roll-medium tray	1 pair	Standard accessory for CE5000-40-CRP. Standard accessory for CE5000-60 for some countries in stead of a Stand.
Carrier sheet	1	Standard accessory for CE5000-40-CRP.

GRAPHTEC
Graphtec Corporation
503-10 Shinano-cho, Totsuka-ku, Yokohama 244-8503, Japan

CE

GRAPHTEC

Cutting Plotter
CE5000 series
CE5000-40-CRP / 60 / 120

Vinyl Sign
Banner
Decals
Print & Cut
Masking Film
Heat Transfer

Ease-of-use increases productivity.

CE5000-120
CE5000-60
CE5000-40-CRP

The low cost, high performance of the CE5000 transforms cutting jobs.

CE5000 series

The low cost, high performance CE5000 Series cutting plotter offers performance comparable to high-end units at reasonable cost.

In addition to outstanding basic performance, the CE5000 incorporates a range of features such as registration mark detection to ensure high-precision cutting of printed materials.

This plotter helps increase work efficiency and productivity.

Cutting versatility for a wide range of applications

Window Display **Decals** **Vinyl Sign** **Print & Cut** **Vehicle Sign**

A wide range of features and user-friendly design for even higher cutting quality and productivity.
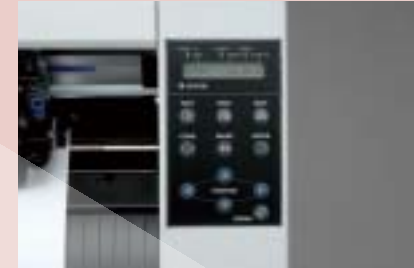
Standard roll media holder
A standard roll media holder ensures consistent media feeding.

Dedicated basket for long-length cutting
A dedicated basket is available* to provide peace of mind for long-length cutting.
* Optional

Control panel with icon display
Icons and buttons on the interactive LCD display are labeled for ease of use.

Handy accessory storage space
A storage space is provided for small, frequently-used items such as cutter plungers and cutting blades.

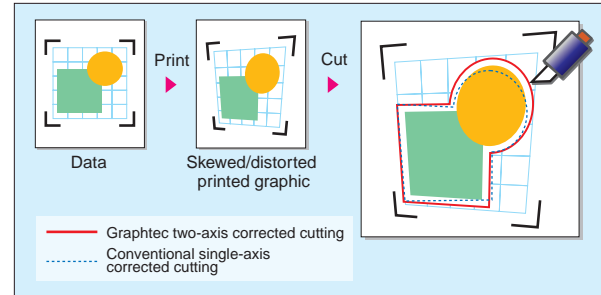## Incorporates ARMS to ensure precise cutting.

The ARMS automatic registration mark sensing function detects printing positions for high-precision cutting. The outstanding ease-of-use and performance of the ARM function increases label and sticker productivity.
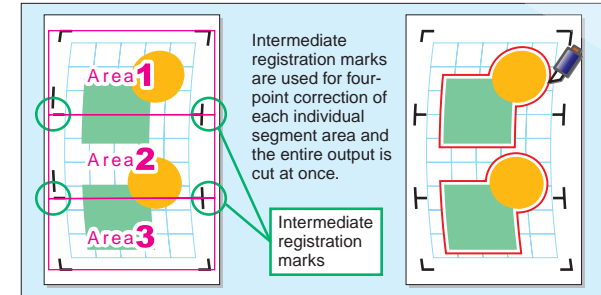
Four-point registration mark (two-axis skew) correction ORIGINAL

Four-point registration mark sensing and X/Y-axis correction (Graphtec original two-axis skew correction) uses high-precision positioning to ensure accurate cutting of graphics that have been skewed or distorted during printed.
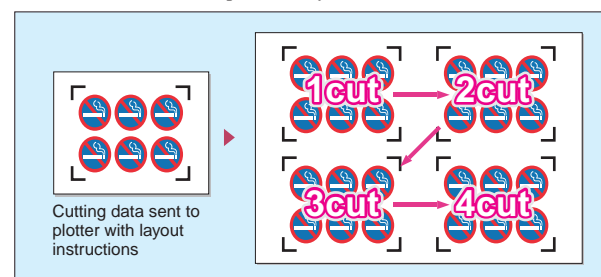
Data → Print → Skewed/distorted printed graphic → Cut

— Graphtec two-axis corrected cutting
···· Conventional single-axis corrected cutting

Segment area correction ORIGINAL

The intermediate registration marks in the media feed direction are detected to allow four-point correction for each individual segment area. This enables high-precision positioning of the whole area of skewed prints produced using long-length printing.
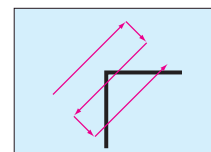
Area 1
Area 2
Area 3

Intermediate registration marks are used for four-point correction of each individual segment area and the entire output is cut at once.

Intermediate registration marks

Multiple registration mark correction

Layout instructions are sent together with the cutting data for designs printed using layout functions such as RIP, enabling continuous detection of registration marks for cutting. This significantly reduces work times and increases productivity.

Cutting data sent to plotter with layout instructions

1cut → 2cut
3cut → 4cut

Automatic registration mark detection
Patent pending

The first registration mark is detected automatically, eliminating the need to move the sensor to the registration mark manually. Subsequent registration marks are automatically redetected even if sensing errors occur, simplifying the process of registration mark sensing.
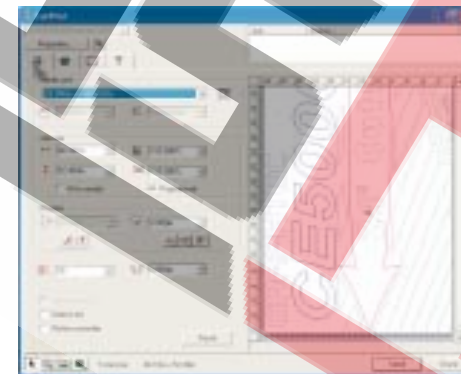
Supports registration mark commands

Registration mark commands are provided to control ARMS functions from a PC. Registration mark data including size and spacing can be controlled to simplify operations.

• Cutting Master 2
• ROBO Master Pro
• Plotter Controller

Includes a range of software applications that improve work efficiency and simplify operations.
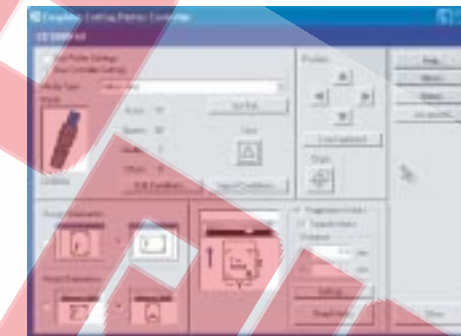
Cutting Master 2

This plug-in application allows direct cutting from graphics applications. For higher productivity, create graphics or text in Adobe Illustrator or CorelDraw, then simply output directly to the plotter.

Main Features
• Direct output from the software
• Output by layer / color
• Possible to check the cutting lines by preview window
• Multiple over cutting is possible
• ARMS can be controlled by software
• Centering, Rotate, Mirror for easy layout
• Matrix copy for higher productivity
• Auto-welding for binding same color of shapes
• Tiling / Paneling for segmentation of cutting

OS version	• Windows98SE, ME, 2000, XP • Mac OS X, 10.2 or later
Software version	• Illustrator for Windows 8,9,10,CS,CS2 • Illustrator for Mac 10, CS, CS2 • Corel DRAW 10, 11, 12, X3

Plotter Controller

This application allows direct control of a wide range of CE5000 functions from a PC, including cutting speed, cutting pressure, pen movement, and ARMS control. The ability to control various plotter settings from a PC dramatically improves work and operating efficiency.
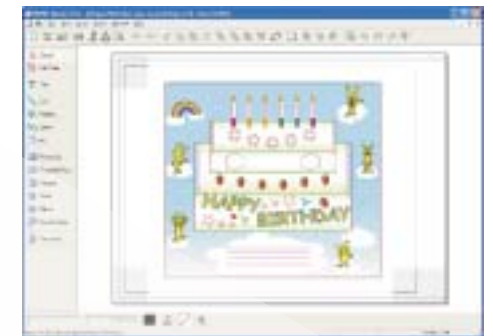
Main Features
• Cutting conditions setting
• Test cut
• Position move
• Rotation
• Origin point
• Key board control
• Registration mark setting
• Auto-mark reading
• Mark size, distance

OS version	Windows98SE, ME, 2000, XP
*USB I/F only

ROBO Master Pro

This sign creation application is simple and easy-to-use, even for first-time users. Create and edit graphics and text for simple film cutting. The application provides a function for use on stickers or labels.

Main Features
• Edit a design (Shape, True type font)
• Import the DXF files (R13 format)
• Direct output from software
• ARMS can be controlled by software

OS version	Windows98SE, ME, 2000, XP
*USB I/F only