

# GRAPHTEC

High-Performance, Professional Cutting Plotters

## FC7000 series

### Automatic Registration Mark Sensor (ARMS) & Dual Axis Correction

**ARMS** automatically seeks for the first corner mark to get the job started faster.

**4 Point Marks—Dual Axis Correction** adjusts the cutline to compensate for minor print distortions. Use intermediate segment area marks to compensate for printer skewing on long prints.

### Versatile, Flexible, Durable For High Production Output

**Cut, Plot, Pounce**—Choose from several types of blades, pens or pouncing tool.

Cut from 1 mil thin film up to 50+ mil thick sandblast mask with ease.

Order the two-pen model for maximum flexibility and automated multi-function capability.

### Industry Leading Cutting Speed & Precision With Tangential Control Mode

The FC7000 is the **fastest in its class** with cutting speeds up to 58.5 inches per second.

**Tangential Control Mode** outperforms mechanical tangential systems in both speed and output quality. Within milliseconds sensors detect the blade tip position to lift and rotate it for the next cut line. Precision digital servos and control architecture enables cutting of text on vinyl as small as 1/16th inch.

### Higher Cutting Force—Intelligent Soft Landing Control

Delivers a maximum **cutting force of 600 grams** to cut tough materials.

Graphtec's Soft Tool Landing feature ensures quick, precise control so the tool gently lands on the material surface - this improves speed, reduces wear, and extends tool life.

### Cutting Master Plug-in Included For Complete Output Control

Design, print and cut layouts from Adobe Illustrator or CorelDRAW.

Set registration marks, orientation, position, scaling, paneling, tiling.

Set and save media type, line style, cutting conditions by layer or color.

Auto-weld paths, optimize cutting order, set multiple passes and more.

### Wider Media Path Matches Wide Format Printer Media

Extra width for easy loading of wide vinyl and print media sizes.

**Maximum Media Widths—Models -75: 36" -100: 48" -130: 60" -160: 72".**

Configure for front or rear loading with multiple media brackets.

Optional Media Basket is recommended to keep media clean and off the floor, and it reduces static build-up when cutting vinyl and other films.



Specifications	FC7000-75	FC7000-100	FC7000-130	FC7000-160
Configuration	Digital Servo Friction feed with Microgrip Rollers, moving media			
Maximum cutting area	30.0 in x 164 ft	42.0 in x 164 ft	54.0 in x 164 ft	64.0 in x 164 ft
	(762 mm x 50 m)	(1067 mm x 50 m)	(1372 mm x 50 m)	(1626 mm x 50 m)
Compatible media width	2.9 in to 36.2 in	2.9 in to 48.2 in	2.9 in to 60.2 in	2.9 in to 72.2 in
	(74 mm to 920 mm)	(74 mm to 1224 mm)	(74 mm to 1529 mm)	(74 mm to 1834 mm)
Maximum auto cross cutting width	35 in	47 in	59 in	69 in
Automatic sheet cutter maximum thickness	11 mil including release liner			
Maximum media thickness	59.1 mil			
Maximum cutting speed	58.5 in/s (1485 mm/s) (45° direction)			
Programmable axial cutting speeds	0.4 to 41.3 in/s in 105 steps (10 to 1050 mm/s) (from PC operation)			
Maximum axial acceleration	4.0 G (39.2 m/s²)			
Programmable cutting force	20 g to 600 g (0.2 N to 5.88 N) in 40 steps			
Mechanical resolution	0.0002 in (0.005 mm)			
Programmable resolution	GP-GL™: 0.0004 in (0.01 mm); HP-GL® emulation: 0.001 in (0.025 mm)			
Repeatability*1	0.0039 in/80 in (0.1 mm/2m) travel or better			
Tools	1 cutting blade or plotting pen or pouncing tool. Two pen/tool model available by special order (factory option)			
Blade types	0.9 mm 45°, or 1.5 mm 45° or 30° Graphtec SuperSteel, 1.5mm ceramic or 1.5mm sapphire tip blades			
Pen types	Water/oil-based fiber tip, water/oil-based ballpoint, Fine Point Sharpie (with optional pen adapter)			
Media types	Cast/calendared vinyl, window tint, paint protection, PET film, EC film, diamond grade and high Intensity reflective, laminate film, vinyl banner, Amberlith™, Rubylith™, paper, decals, labels, garment vinyl, flex, flock, twill, sandblast mask			
Pouncing function	Optional 1.2mm Pouncing tool			
Perforated line cutting	Perforated line settings (Control panel selectable)			
Interfaces	RS-232C serial, USB2.0 (compatible with USB 1.1)			
Data buffer	2 MB			
Command set	GP-GL / HP-GL® (control panel selectable)			
Control panel display	20 digits by 4 line LCD. Menu display and soft keys			
Language Localization	Japanese, English, German, French, Spanish, Italian, Portuguese ((Control Panel selectable)			
Automatic Registration Mark Sensor	Advanced ARMS (detects 2, 3, 4 Point marks, intermediate segments, and multiple embedded marks for maximum flexibility. ARMS automates first mark detection, and rescans subsequent marks as needed to apply Dual Axis Error Correction to compensates for printer skewing or distortions.			
Media Supply mechanism	Brake system and reverse tension mechanism adjusts the media upon loading, Work surface Guide marks to align media			
Media Auto Pre-Feed	Automatic media pre-feed unwinds and feeds roll media to the length specified in the cutting data file.			
Tangential Control Mode	Standard			
Input Power Requirement	100-240V AC, 50/60 Hz; auto switching, 120 VA maximum Power Consumption			
Operating environment	50° to 95°F (10° to 35°C), 35% to 75% RH (non-condensing)			
Recommended Environment	60° to 90°F (16° to 32°C), 35% to 70% RH (non-condensing)			
Dimensions (W x D x H on stand)	49.6" x 28.1" x 47.6"	61.4" x 28.1" x 47.6"	73.2" x 28.1" x 47.6"	83.5" x 28.1" x 47.6"
	1260 x 715 x 1210mm	1560 x 715 x 1210mm	1860 x 715 x 1210mm	2120 x 715 x 1210mm
Weight (including stand)	86 lbs (39kg)	95 lbs (43 kg)	112 lbs (51kg)	130 lbs (59 kg)
Accessories Included	AC Power Cord, 3m USB 2.0 cable, 2 CB09UA-2 0.9mm 45° Blades, PHP32-CB09N Blade Holder, Black Water-based fibertip plotting pen, Quick Start Manual and Usage Precautions statement, Media Stock bracket, Floor Stand.			
Software Installation CD-ROM	User's Manuals (PDF), Windows 2000/XP Drivers, Cutting Plotter Controller. Cutting Master Cut/Plot Plug-in for Adobe Illustrator 8~CS2, CorelDRAW 10~X3. Mac OS X 10.2 and newer, PowerPC and Intel Core: Adobe Illustrator 10 through CS2			
Recommended Accessories (Optional)	Media Catch Basket, Additional Media racks, Pouncing Tool, Registration/Axis Alignment Loupe, Pens, Sharpie Adapter			
Factory Installed Options	Two Pen/Tool holder Option. FC7000-100AKZ for Window Tint, Paint Protection, Masking Film			
Certifications	UL, cUL, CE mark, VCCI			
Warranty	3 Years Parts and Labor. Bullet Proof Warranty - Loaner Unit provided during service.			

Specifications are subject to change without notice.

# GRAPHTEC

## GRAPHTEC AMERICA, INC.

*Dedicated to the Americas – North, Central & South*

1251 East Dyer Road Suite 110

Santa Ana CA 92705 USA

Toll Free (800) 854-8385

Tel (949) 770-6010

Fax (949) 855-0895

cp.sales@graphtecamerica.com • www.graphtecamerica.com

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