

GRAPHTEC

FC7000 MK2 series

High-Performance, Professional Cutting Plotters

Advanced Registration Mark System (ARMS) for all print & cut designs

The Graphtec ARMS is able to adjust the contour cut for multiple scenarios including various methods for correction cut line with decal. This includes Graphtec's proprietary AREA SEGMENT correction for longer print & cut jobs. Additionally, to get jobs started faster, ARMS will automatically search for the first mark without the extra step of locating it manually.

Versatile, Flexible & Durable For High Production Output

Graphtec's selection of optional tools allows Cut, Plot or Pounce. Cuts material such as sandblast mask up to 50 mil thick with ease—add the optional two-pen configuration for plotting annotations.

Cutting Master 2—Adobe Illustrator® & CorelDraw® Plug-in

Design, print & cut layouts from popular design packages. Print & cut jobs are simple with Cutting Master 2 from creating registration marks for output to the cutter with high accuracy—plus the ability to orient, copy position and scale panel any design. Also allowing you to assign each line with cutting conditions. Outstanding for pop-out decals.

Industry Leading Cutting Speed & Precision

Fastest in its class with cutting speeds up to 58.5 ips. Tangential Control Mode outperforms even the mechanical tangential system in both speed and quality. Within milliseconds, the blade is lifted into position for the next cut line and angle—leaving clean, sharp corners. Useful feature for sandblast designs as well as intricate designs such as 1/16" vinyl lettering.

High Cutting Force without sacrificing the wear of the cutter

With a down force of 600 grams, it can cut the most difficult of media. The soft-landing feature senses the thickness of the media. This increases through put as well as saves the life of the cutting head.

Design with convenience in mind without limitations

Choice of front or rear load. Each design has the added throat space to handle wider material. The FC7000MK2-60 (24") can handle widths up to 30"; FC7000MK2-75 (30") can handle widths up to 36"; FC7000MK2-100 (42") can handle widths up to 48"; FC7000MK2-130 (54") can handle widths up to 60"; FC7000MK2-160 (64") can handle widths up to 72".

Guaranteed 50' Tracking

FC7000MK2 series guarantees 50 feet of accurate tracking using new enhancements—when operated with Graphtec-approved media.

FC7000MK2 Media Catch Basket

FC7000 Series 160, 130, 100, 75, 60 all include a newly designed media catch basket. The basket not only helps keep your work area clutter free and the project clean, but also helps to reduce static charge and therefore assists in the tracking performance.

New 24" FC7000MK2-60 >



FC7000MK2 Series Specifications

	FC7000MK2-60	FC7000MK2-75	FC7000MK2-100	FC7000MK2-130	FC7000MK2-160
Configuration	Digital Servo Friction feed with MicroGritroll™ drive				
Maximum cutting area	24 in x 164 ft (610 mm x 50 m)	30 in x 164 ft (762 mm x 50 m)	42.0 in x 164 ft (1067 mm x 50 m)	54.0 in x 164 ft (1372 mm x 50 m)	64.0 in x 164 ft (1626 mm x 50 m)
Compatible media width	2.9 in to 30.3 in (74 mm to 770 mm)	2.9 in to 36.2 in (74 mm to 920 mm)	2.9 in to 48.2 in (74 mm to 1224 mm)	2.9 in to 60.2 in (74 mm to 1529 mm)	2.9 in to 72.2 in (74 mm to 1834 mm)
Maximum auto cross cutting width	28.7 in	35.5 in	47.5 in	59.5 in	69.5 in
Automatic sheet cutter maximum thickness	11 mil including release liner				
Maximum media cutting thickness	59.1 mil				
Maximum cutting speed	58.5 in/s (1485 mm/s) (45° direction)				
Maximum axial acceleration	4.0 G (39.2 m/s ²)				
Programmable cutting force	20 g to 600 g (0.2 N to 5.88 N) in 48 steps				
Mechanical resolution	0.0002 in (0.005 mm); Minimum Character Size ^{*2} 0.125in alphanumeric Helvetica Medium Font				
Programmable resolution	GP-GL™: .1/.05/..025/.01mm, HP-GL®: 0.001 in (0.025 mm); GPGL: 254, 508, 1016, 2540; HPGL1016				
Repeatability ^{*1}	0.0039 in / 80 in (0.1 mm / 2 m) travel or better				
Tools	Accepts (1) cutting blade, (1) plotting pen, and (1) pouncing tool; Second penholder (optional)				
Blade types	Tungsten Carbide (0.9 mm or 1.5 mm), ceramic (1.5 mm), sapphire (1.5 mm)				
Pen types	Water/oil-based fiber tip, water/oil-based ballpoint, and ceramic tip				
Media types	Self-adhesive vinyl film, diamond grade, flourescent film, reflective film, Amberlith™, Rubylith™, sandblast resist rubber, high-intensity reflective film, window tint film, paint protection film, etc.				
Perforated line cutting	The perforated line is selectable through the standard function menu				
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 lines LCD with comprehensive icon-corresponding soft keys; Supports 7 languages				
Language	Japanese, English, German, French, Spanish, Italian, Portuguese				
Registration and axis alignment	Standard Registration Mark Sensor for automated alignment of printed digital images for contour/die cutting Standard LED beam positioning system				
Media supply mechanism	Brake system and reverse tension mechanism for tightening the media upon loading; Guide line				
Media pre-feed	Standard built-in SmartFeed™ function automatically unwinds and pre-feeds media for an operator-specified distance upon self-recognition of plot file length				
Power requirement	100-240 VAC, 50/60 Hz; auto switching, 120 VA max.				
Operating environment	50° to 95° F (10° to 35° C), 35% to 75% RH (non-condensing)				
Guaranteed accuracy environment	60° to 90° F (16° to 32° C), 35% to 70% RH (non-condensing)				
Certifications	CE mark, FCC, VCCI, cUL, UL, RoHS				
Floor stand & Media catch basket	Included				
Standard software	Cutting Master™ plug-in software, QuickCut™ plug-in software, Cutting Plotter Controller software (Windows®/Mac® compatible)				
Options	Additional Media Rack, Pouncing Tool, Registration/Axis Alignment Loupe, Second Penholder (factory installed)				
Warranty	3 Year Parts & Labor. (30 day warranty on consumables: blades, pens, teflon cutting mat, etc.)				

Graphtec Recommended Media List For FC7000MK2 50ft Tracking: 3M—Scotchcal Series 7125, 7725 Synthetic Back, Controltac Series 180C. Arlon— Series 2100-2200, Series 4500, Series 2500 Translucent. Oracal—651 Series. Kapco—PSA 3.5 mil Premium Gloss White Vinyl. LG—VizuonCal 6000 Series, 4000 Series. IKC—ECAL Tent #101, ET-100, New Lumical Color N-9113. Toyo—DC1020. Shinseisy—Hello 3 CAL (Japanese).

*1 When operated with Graphtec-specified media and conditions.

*2 The CB15UB cutting blade is recommended when cutting characters 10mm or smaller.

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