

CAMM-1

GR2-640 / 540

Master Sales Guide



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What You Need to Know

The all-new GR2 series of large-format vinyl cutters is the latest offering based on legendary Roland DG CAMM-1 technology. The new GR2 series has added features to ensure superior media tracking ability and comes equipped with powerful software that allows easy integration into any workflow. CAMM-1 GR2 series large-format vinyl cutters can also be used with Roland DG VersaWorks for a seamless print-then-cut workflow when used with two Roland DG devices or a third-party non-Roland DG printer. With their advanced capabilities, and precise, reliable performance, the GR2-540 and GR2-640 will increase overall production for large-format graphics service provider.

Pricing

- **GR2-540** - \$4,495 MSRP (SB-54 Media Catch Basket included)
- **GR2-640** - \$5,495 MSRP (SB-64 Media Catch Basket included)
- Includes GreatCut-R Software

Warranty Information

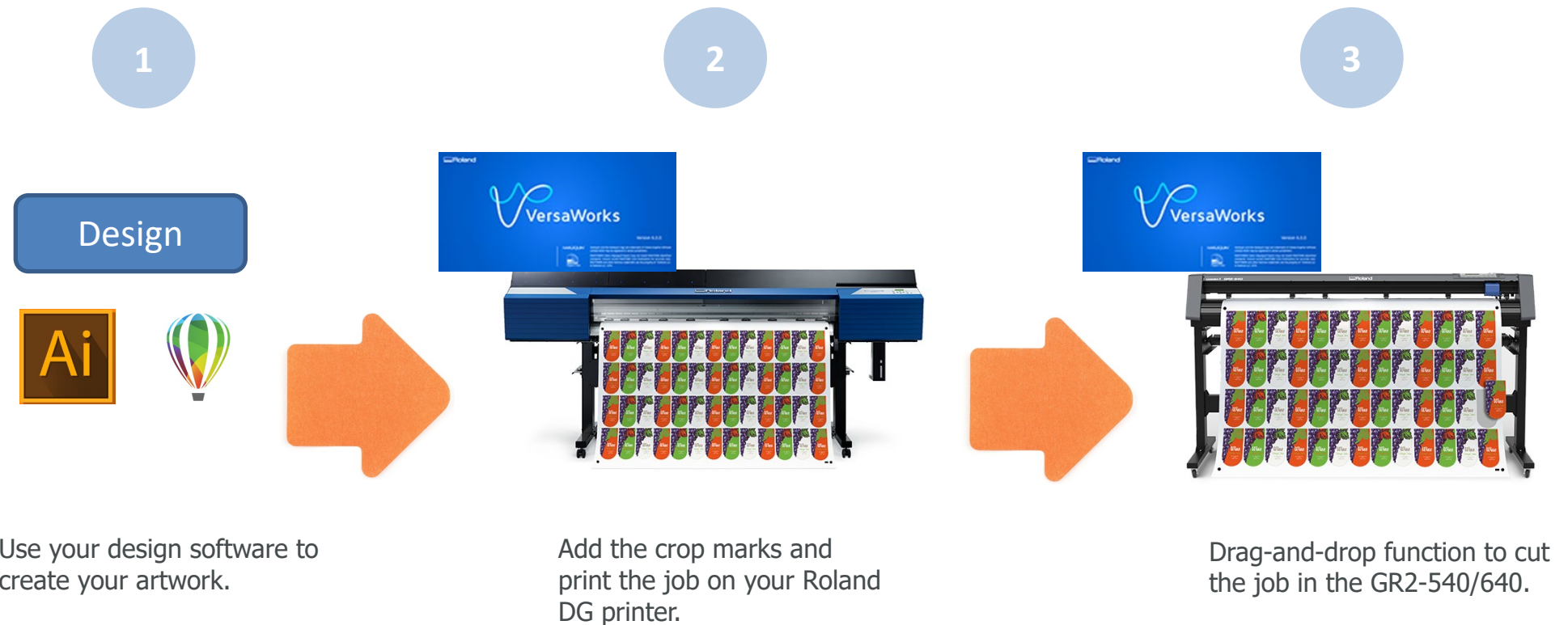
- Three-Year Trouble-Free Warranty (Registration required for second and third years). Warranty extensions available for up to five total years of coverage.
- Also, once you register, you qualify for a variety of benefits such as free online training, phone and chat support, and more.



Product Features

VersaWorks 6 Compatible

The GR2 series is compatible with Roland DG VersaWorks 6, allowing workflow from any supported Roland DG printer, like the TrueVIS VF2-640. The RIP process for print/cut data can be easily handled by VersaWorks using the Roland DG Quadralign Optical Registration System. A simple drag-and-drop workflow enables users to crop by entire area, each row, or even each image, for the most precise print-and-cut accuracy.



Product Features

Roland DG AASII Positioning Function

Each GR2 series cutter features a standard Automatic-Aligning System (AAS II), which guarantees precise contour cutting by automatically detecting the crop marks on digitally produced images, including those from non-Roland DG devices, using the provided plug-in software. For end users unable to use VersaWorks, this provides an accurate print-then-cut solution.

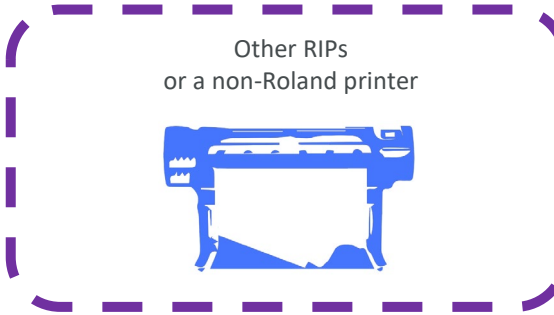
1



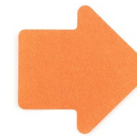
Use Ai or Corel Draw to create your artwork, add the Roland AASII crop marks, and save the file to be loaded in your RIP software.



2



Load the file in your RIP and print the job.



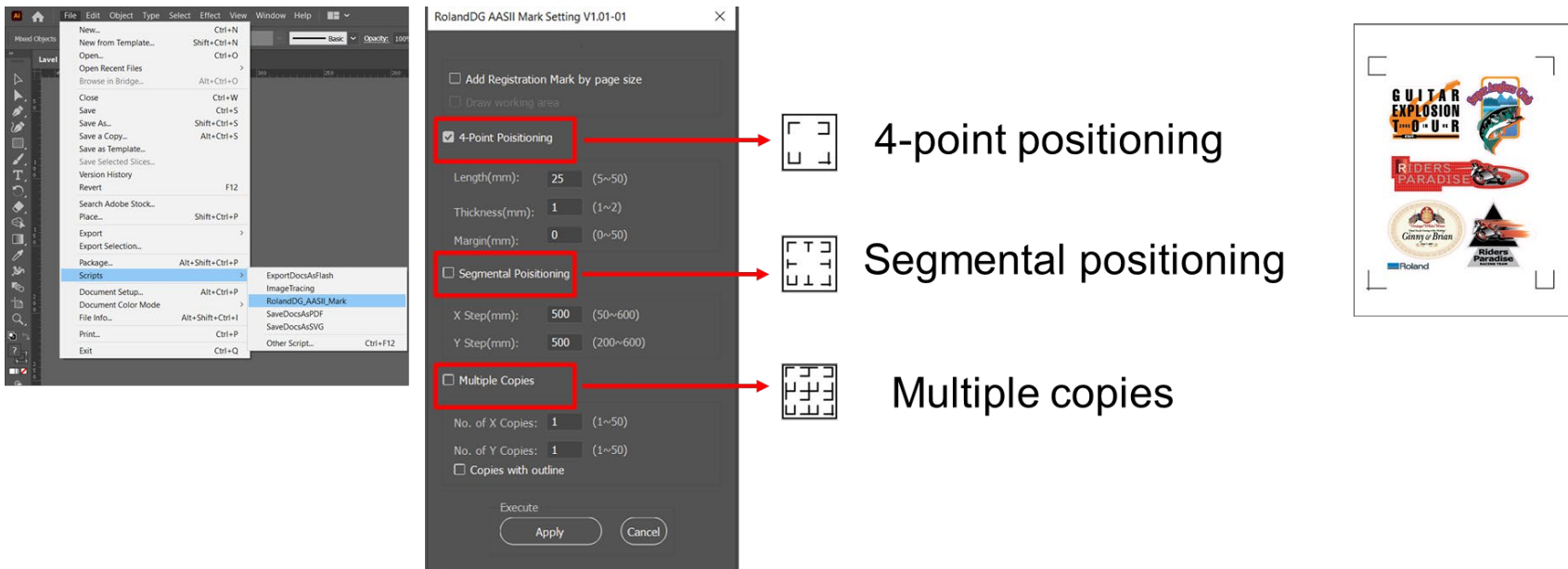
3



Send the cutting file directly from the AASII plug-in to cut the job.

Product Features

The Roland DG Automatic-Aligning System (AAS II) offers several choices for crop mark placement to ensure optimal accuracy, regardless of the application being sent to cut. Four-point positioning allows users to group several jobs into one file. Segmental positioning maintains accuracy over long runs by reading crop marks at specific intervals and adjusting for any media skew, while the multiple copies feature makes it simple to add a specific number of copies in both the X and Y directions.



The image displays the Roland DG AASII Mark Setting dialog box (V1.01-01) and a sample graphic with crop marks. The dialog box is divided into three sections, each with a red box highlighting a feature and an arrow pointing to a corresponding crop mark icon:

- 4-Point Positioning:** The "4-Point Positioning" checkbox is checked. The settings are Length (mm): 25 (5~50), Thickness (mm): 1 (1~2), and Margin (mm): 0 (0~50). The icon shows four crop marks at the corners of a square.
- Segmental Positioning:** The "Segmental Positioning" checkbox is unchecked. The settings are X Step (mm): 500 (50~600) and Y Step (mm): 500 (200~600). The icon shows crop marks at the corners and midpoints of the sides of a square.
- Multiple Copies:** The "Multiple Copies" checkbox is unchecked. The settings are No. of X Copies: 1 (1~50) and No. of Y Copies: 1 (1~50). The icon shows a grid of crop marks.

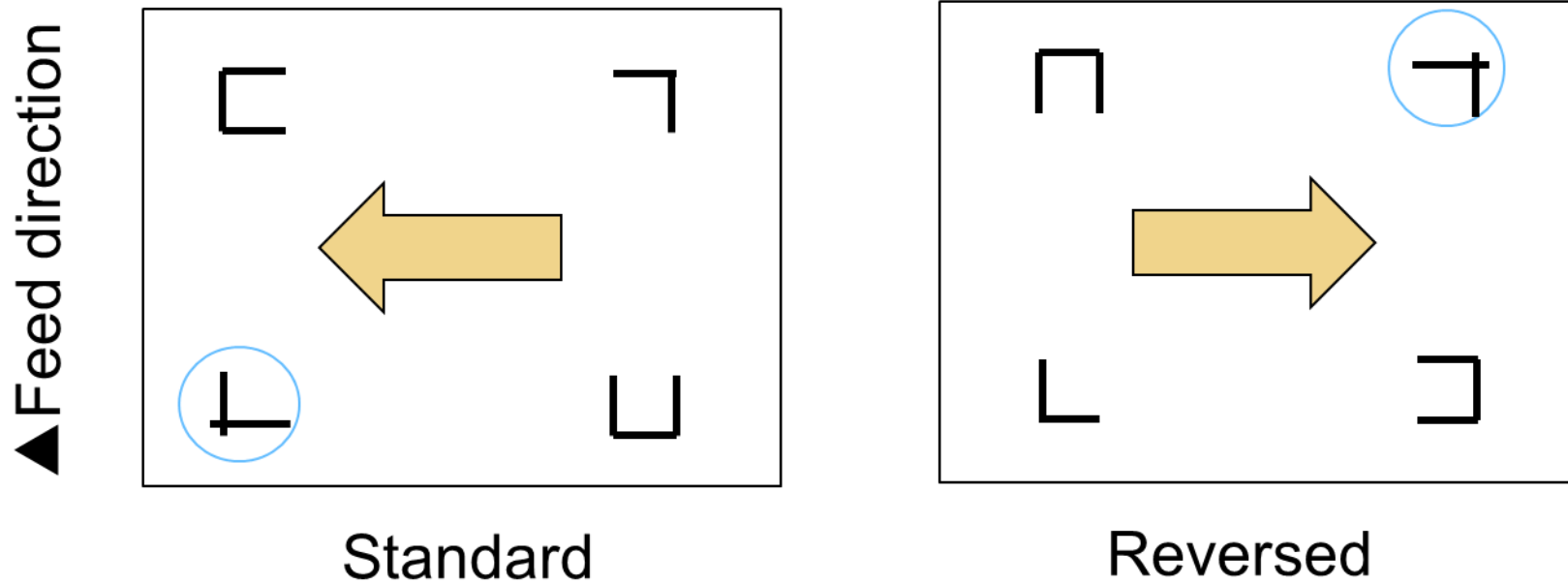
The sample graphic on the right shows a collection of logos including "GUITAR EXPLOSION TOUR", "RIDERS PARADISE", and "Gentry & Brian". The graphic is framed by a white border with crop marks at the corners and midpoints, illustrating the segmental positioning feature.

Product Features

Roland DG AASII Positioning Function

Auto Rotation

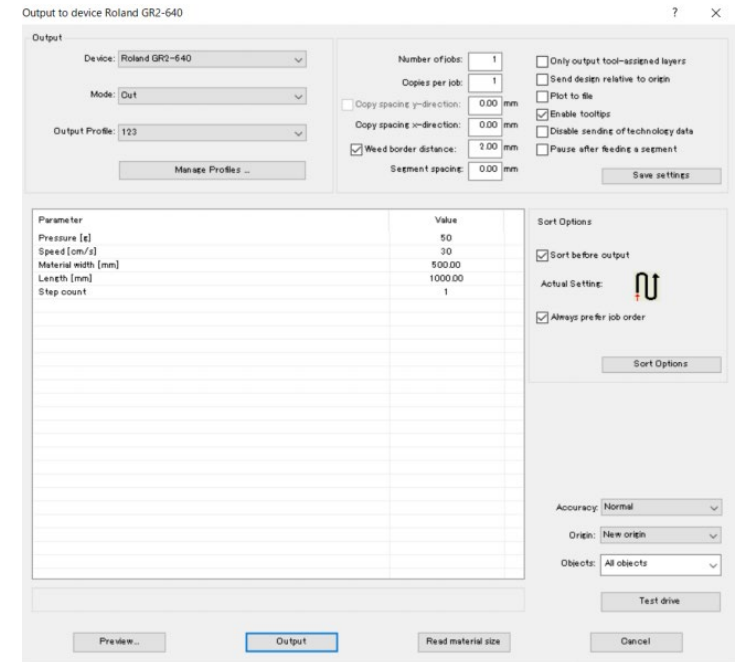
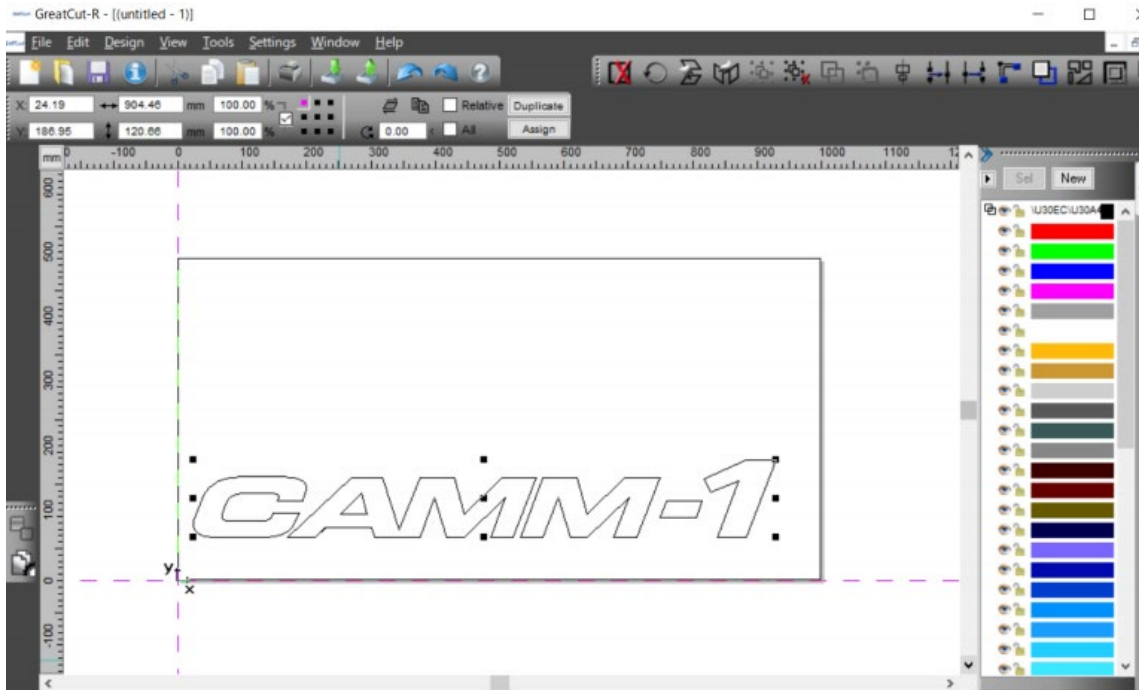
The GR2 optical sensor will detect the AASII crop marks to distinguish the feeding direction of the media and rotate cutting content automatically. There is no need to distinguish between 0 and 180 degrees (upside down) when loading the material for cutting after printing has been completed. This is a great time-saving feature in a production-level workflow.



Product Features

GreatCut-R

GR2 series cutters come bundled with GreatCut-R software, which includes a variety of dedicated cutting functions that support efficient, trouble-free operations, such as setting up weed lines, sorting options, and saving job histories. Similar to a production manager in the RIP world, these tools can help improve productivity by optimizing throughput and ensuring high quality.



Accessories

The GR2 series cutters incorporate durable, reliable CAMM-1 accessory hardware. The high-quality blades and holders are part of what makes the GR2 cutters accurate, dependable performers day-in and day-out. A wide variety of blades are available to accommodate most any application.

Reference	Offset	Angle (RDG, β)	Angle (Standard, α)	Packaging unit (pcs)	Cardboard	Flock	Floor Laminate	Heat Transfer	Magnetic*	PerfCut	Reflective	Sandblast	Twill	Vinyl \leq 76 μ m	Vinyl \geq 76 μ m	Window Tint
ZEC-A5025-3	0.25 mm	48°	42°	3				x						x	x	
ZEC-U5025	0.25mm	50°	40°	5				x						x	x	
ZEC-U5032*	0.25mm	55°	35°	2				x						x	x	
ZEC-U5022	0.25mm	55°	35°	2												
ZECA-1005-3	0.25mm	50°	40°	3				x						x	x	
ZEC-U1005	0.25mm	50°	40°	5				x						x	x	
ZECA-1715-3	0.25 mm	33°	57°	3								x				
ZEC-U1715	0.25mm	17°	73°	5								x				
ZECA-3050-5	0.5 mm	33	57°	5	x	x	x		x		x	x	x		x	
ZEC-U3050	0.5 mm	32°	58°	5	x	x	x		x		x	x	x		x	
ZECA-3017-3	0.175mm	42°	48°	3										x	x	
ZEC-U3017	0.175mm	45°	45°	3										x	x	
ZEC-U3075	0.75 mm	32°	58°	5	x		x		x	x	x	x				
ZEC-U3100	1.00 mm	32°	58°	5	x		x		x	x	x	x				
ZEC-U5010	0.50 mm	55°	35°	2												x

Blade holder

XD-CH4-BL*

XD-CH4-OR

XD-CH4-RD



Specifications

		GR2-640	GR2-540
Drive system		Digital control servo motor	
Cutting mechanism		Media-moving method	
Acceptable material size (*1)	Width	50 mm to 1,782 mm (1.97 in. to 70.1 in.)	50 mm to 1,594 mm (2.0 in. to 62.7 in.)
	Thickness	Thickness including backing paper is 0.8 mm (31.4 mil.) or less	
	Roll weight	24 kg (52.9 lb.)	20 kg (44.1 lb.)
Maximum cutting area (width × length)		1,627 mm × 50,000 mm (64 in. × 1968 in.)	1,372 mm × 50,000 mm (54 in. × 1968 in.)
Usable tools		CMM-1 series blade (including blades for flatbed use)	
Cutting speed		30 to 1,530 mm/s (1.19 to 60 in./s)	
Blade force		5 - 600 gf	
Mechanical resolution		0.006 mm/step (0.236 mil./step)	
Software resolution		0.025 mm/step (0.98 mil./step)	
Distance accuracy (*2)		Error of less than ±0.1% of distance traveled or 0.254 mm (10 mil.), whichever is greater	
Repeatability (*2)(*3)(*4)		0.1 mm (3.94 mil.) or less	
Connectivity		Ethernet (automatic switching between 10BASE-T and 100BASE-TX) USB 2.0 (FULL SPEED compliant) RS-232C	
Replot memory		32 MB	
Command system		HP-GL, HP-GL/2 compliant	
Power requirements		AC 100 to 240 V ± 10%, 50/60 Hz	
Power consumption		Approx. 110 W	
Acoustic noise level	During operation	56 dB (A) or less	
	During standby	40 dB (A) or less	
Dimensions (Width x Depth x Height)		1,982 mm × 756 mm × 1,127 mm (78.1 in. × 30 in. × 44.4 in.)	1,711 mm × 651 mm × 1,111 mm (68 in. × 25.7 in. × 44 in.)
Weight		69 kg (153 lb.)	60 kg (133 lb.)
Packaging dimensions		2,200 mm x 395 mm x 880 mm (87 in x 15.6 in x 34.7 in.)	2,040 mm x 395 mm x 850 mm (81 in x 15.6 in x 33.5 in.)
Packaging weight		97 kg (214 lb.)	85 kg (188 lb.)
Environment		Temperature: 15 to 30 °C (59 to 86 °F), humidity: 25 to 75 %RH (no condensation)	
Accessories		USB cable, cutting pad, safe blade, dedicated stand, tweezers, user's manual.	

*1 Depending upon the type, material that is 500 mm (19.6 in.) or longer may shift during cutting.








*2 According to material and cutting conditions as specified by Roland DG Corporation.

*3 Excluding expansion/contraction of the material.

*4 Range for assured repetition accuracy

- For media with a width exceeding 610 mm (24 in.): Length: 4,000 mm (157 in.)
- For media with a width of 610 mm (24 in.) or less: Length: 8,000 mm (314 in.)

Competitive Outlook

Manufacturer	GR2-640/540	Roland DG GR-640/540	Mimaki CG-160FX II /130FX II	Mimaki GC-130SR	GRAPHTEC FC-9000-160/140	GRAPHTEC CE-7000-160/130	SUMMA D160/D140
Model							
MSRP	\$5,495/\$4,495	\$6,995/\$5,995	\$8,595/\$7,144	\$3,395	\$7,595/\$6,595	\$4,695	\$6,790/\$5,690
Mountable sheet width	11.8"~70.15 -11.8"62.76"	6.14~ /71"	3.5"~74" /3.562.2"	3.5"~61"	1.9"~72.8"/60.1"	1.9"~64" / 54"	7.08"~64"/ 55"
Cutting area	63.6"/ 57" x 164'	65"/55"x164'	63"/51.8"x167.3'	53.9"x167.3'	64"/54"x164'	60"4/50"x164'	62"/53"x164'
Max. cutting speed	60.23/sec. (45° direction)	58.4" /sec. (45° direction)	59"/sec. (45° direction)	27.5"/sec.	58.4"/sec. (45° direction)	39"/sec. (45° direction)	44.52/sec. (45° direction)
Cutting speed	30 ~ 1,530 mm/sec.	10 mm/sec. ~ 1,050 mm/sec. (settable in increment of 10 mm/sec.)	10~1,000 mm/sec.	10~700 mm/sec.			
Max. cutting pressure	600 gf	600 gf	400 gf	500 gf	600 gf	450 gf	400 gf
Cutting pressure range	5~600 gf (in 5g increment)	20~600 gf (in 10gf increment)	10~400 gf	10~500 gf			
Mechanical resolution	0.006 mm/step	0.005 mm/step	0.001 mm/step	0.001 mm/step	0.005 mm/step	0.005mm/step	
Software resolution	0.025 mm/step	0.025 mm/step	0.025 mm/step	0.025 mm/step	0.01 mm/step	0.01mm/step	
Distance accuracy	±0.254 mm or 0.1% of ± moving distance, whichever is larger	±0.2 % of moving distance or 0.1 mm or less, whichever is larger					0.2% of movement or 0.25 mm, whichever is greater
Repeatability	0.1 mm or less	0.1 mm or less (5m feed master cut film)	±0.2 mm	±0.2 mm	0.1 mm or less /2 m	0.1 mm or less /2 m	Within ± 0.1 mm on plots up to 8 m long (40 ft.); on rolls up to 760 mm wide Within ± 0.1 mm on plots up to 4m long; on rolls over 760 mm wide
Interface	Ethernet USB interface RS-232C	Ethernet USB interface	USB interface RS-232C	Ethernet USB interface RS-232C	Ethernet USB interface	Ethernet USB interface	Ethernet USB interface
Replot memory	32 MB	2M byte (Buffer size: 8M byte)	30 MB		2 MB	2 MB	4 MB (buffer size: 16 MB)
Command	HP-GL, HP-GL/2	CAMM-GLIII	MGL- II c/ I c1	MGL- II c/ I c1	GP-GL / HP-GL?	GP-GL / HP-GL?	
External dimensions	1,962×651×1,127 mm/ 1,774×651×1,111 mm	2,165×740×1,190 mm/ 1,910×740×1,190 mm	2,125×700×1,217 mm/ 1,825×700×1,217 mm	1,830×580×1,150 mm	2224×1,151×1,232 mm/ 1970×1,151×1,232 mm	1,916×811×1,215 mm/ 1,704×811×1,215 mm	1,980×680×1,145 mm/ 1,750×680×1,145 mm
Weight	63kg /50kg	93.5 kg /87 kg	69kg/60kg	46kg	70kg/64kg	55kg/51kg	54kg/48kg

תודה
 Dankie Gracias
 Спасибо شكراً
 Merci Takk
 Köszönjük Terima kasih
 Grazie Dziękujemy Děkojame
 Ďakujeme Vielen Dank Paldies
 Kiitos Täname teid 谢谢
Thank You Tak
 感謝您 Obrigado Teşekkür Ederiz
 Σας Ευχαριστούμ 감사합니다
 ขอบคุณ
 Bedankt Děkujeme vám
 ありがとうございます
 Tack