

**CAMM-1** GR-640 / GR-540 / GR-420

**CUTS MORE. CUTS FASTER.  
CUTS TOUGHER.**

THE POWERFUL GR CUTTER SERIES



 **Roland**

# CAMM-1 GR-640 / GR-540 / GR-420

## The powerful GR cutter series from Roland DG

Pushing the boundaries of what you thought it was possible to cut. The CAMM-1 GR series takes cutting productivity, precision and strength to the next level. Use as a stand-alone cutter or pair with your existing printer - it's entirely your choice. But be sure, you can power up your business with the GR cutter series.

### PRODUCTIVITY

#### The fastest cutter in its class

Delivering up to 1,485mm per second, the CAMM-1 GR cutter boasts the fastest throughput in its class. Its optimised cutting carriage drive system boosts productivity even further by minimising the vertical distance the blade has to travel and advanced weeding tools will help you keep pace with the GR's high-speed production.



Dual position cutting carriage with sheet cutter

### QUALITY

#### High-precision cutting, even in high-speed mode

The GR delivers precision results, even when operating at high speed. Designed for both strength and stability, the powerful new cutting carriage and blade holder deliver up to 600g of downforce, while the new L-shaped design of the integrated stand and machine provides maximum stability to ensure an outstanding quality finish.



Laminated graphics



Signs



Labels and packaging prototypes



Reflective graphics

#### Electronic pinch roller control

For improved tracking and smooth media feeding without feed marks, the GR's new electronic pinch rollers have up to 10 pressure settings to handle even the most challenging of media including soft flock materials, thin window tint and thick reflectives.



Window graphics



Apparel



Sandblast / paint stencils



Floor graphics

### KEY FEATURES

**Newly designed cutting carriage**  
Up to 600g of downforce for enhanced media compatibility.

**LED status lamp**  
Instantly check job status from a distance.

**Digital encoder for variable blade height control**  
Ensures maximum throughput and reduces the risk of substrate damage.

**Dual position cutting carriage**  
For standard and perforated cutting.

**Optical registration system**  
For accurate contour cutting of printed graphics.

**Tray**  
Convenient storage of blades, blade holders and other small items.

**New electronic pinch rollers**  
10 settings at the touch of a button to feed media with just the right amount of pressure.

**L-shaped design**  
Robust integrated stand and media holder increase stability and minimise vibration.

**Media basket**  
Keeps media clean and contained, even with lengthy cuts. Comes as standard.

### VERSATILITY

#### An unrivalled choice of media options

With its impressive cutting power and variable pinch roller pressure, the GR is compatible with a huge range of media. Cut sign vinyl, reflective film, sandblast masking, window tint, flock, foil, laminated graphics and much more. Plus, cut and crease cardboard for realistic packaging prototypes. The GR is certainly up for the challenge.



Window tint film



Garment heat transfer



Sign vinyl



Sandblast masking



Laminated graphics

### EASE OF USE

#### Advanced new Roland CutStudio software

Designed to integrate easily into any workflow, the GR features both USB and Ethernet connectivity and runs from a wide range of software packages. Not only that, included with the GR series is the newly upgraded Roland CutStudio software which makes it quicker and easier than ever to create and edit cutting data. With included Windows® driver, plug-ins for Adobe® Illustrator® and CorelDRAW® plus the ability to cut from VersaWorks Dual, the GR allows seamless integration to support the most complex design requirements and create an easy cut or print and cut workflow.

#### Roland CutStudio's advanced features include:

**weeding lines:** minimise production time with the ability to include vertical, horizontal and ring throw lines for easy weeding;

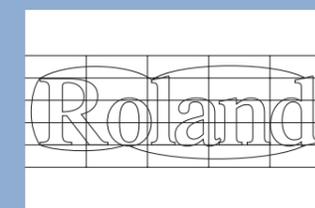
**perforated cutting:** cut the face sheet and through the media on labels and stickers to deliver a professional finish, fast;

**coloured cutting lines:** designate colour to cutting lines according to type for maximum cutting efficiency;

**tiling:** for easy application, accurately cut graphics for large installations in sections;

**scale settings:** scale artwork by units or percentage increments;

**overlap cutting:** specify the number of passes for jobs requiring more than one cut pass.



Advanced weeding auxiliary line function



**GR-640**

**GR-540**

**GR-420**

# CAMM-1 GR Series

Specifications		GR-640	GR-540	GR-420
Model		<b>GR-640</b>	<b>GR-540</b>	<b>GR-420</b>
Mechanism / Driving method	Media-movement method / Digital control servo motor			
Acceptable media widths	Max. 1,802 mm (70 in.)		Max. 1,548 mm (60 in.)	Max. 1,224 mm (48 in.)
Maximum cutting area	Width: 1,651 mm (65 in.) Length: 25 m (984 in.)		Width: 1,397 mm (55 in.) Length: 25 m (984 in.)	Width: 1,075 mm (42 in.) Length: 25 m (984 in.)
Maximum cutting speed	1,485 mm/s (High speed mode, in 45° direction)			
Cutting speed / Cutting force	10 mm/s - 1,050 mm/s (in increments of 10 mm/s) / 20 - 600 gf (in increments of 10 gf)			
Mechanical resolution	0.005 mm/step			
Software resolution	0.025 mm/step			
Distance accuracy	Error of no more than +/- 0.2% of distance travelled, or 0.1 mm (0.00394 in.), whichever is greater			
Repetition accuracy (*1)(*2)	0.1 mm or less			
Interface	Ethernet 10BASE-T / 100BASE-TX (auto-negotiation), USB 2.0 (full speed)			
Buffer size	8MB (2MB for re-plot buffer)			
Power supply / Power consumption	AC 100 to 240 V 50/60 Hz 0.7 A / Approx. 70 W			
Acoustic noise level	During operation	67dB(A) or less (according to ISO7779)		
	During standby	43dB(A) or less (according to ISO7779)		
Dimensions with stand	2,165 mm (W) × 740 mm (D) × 1,190 mm (H)	1,910 mm (W) × 740 mm (D) × 1,190 mm (H)	1,650 mm (W) × 740 mm (D) × 1,190 mm (H)	
Weight with stand	93.5 kg	87 kg	78 kg	
Packaging dimensions	2,300 mm (W) × 565 mm (D) × 770 mm (H) (90.5 in. (W) × 22.2 in. (D) × 30.3 in. (H))	2,050 mm (W) × 565 mm (D) × 770 mm (H) (80.7 in. (W) × 22.2 in. (D) × 30.3 in. (H))	1,740 mm (W) × 565 mm (D) × 770 mm (H) (68.5 in. (W) × 22.2 in. (D) × 30.3 in. (H))	
Packaging weight	128 kg	118 kg	108 kg	
Operating environment	Temperature: 5 to 40 °C (41 to 104 °F) , Humidity: 35 to 80 % (no condensation)			
Included items	Power cable, electrical plug adapter, blade (ZEC-U5032, 1pc), blade holder (XD-CH4-BL), cable clamp, replacement blades for separating knife, installation guide, USB cable (2 m), alignment tool, Roland DG software (to download), user's manual (to download).			

\*1 Only applicable under certain internal test conditions with the usage of specific vinyl sheet and cut settings.

\*2 Excluding stretching/contraction of the material.

Options		
Blades	ZEC-U5032	0.25mm offset, 2-pcs. For reflective, fluorescent and standard materials
	ZEC-U5025	0.25mm offset, 5-pcs. For reflective, fluorescent and standard materials
	ZEC-U5022	0.25mm offset, 2-pcs. For standard materials
	ZEC-U5010	0.50mm offset, 2-pcs. For window tint application
	ZEC-U3017	0.175mm offset, 3-pcs. For small letters or intricate designs
	ZEC-U1715	0.25mm offset, 5-pcs. For sandblast stencils
	ZEC-U3050	0.50mm offset, 5-pcs. For thick materials
	ZEC-U3075	0.75mm offset, 5-pcs. For thick materials
Blade holders	ZEC-U3100	1.00mm offset, 5-pcs. For thick materials
	XD-CH4-BL	Blade holder with blade extension adjuster, colour Blue
	XD-CH4-OR	Blade holder with blade extension adjuster, colour Orange
	XD-CH4-RD	Blade holder with blade extension adjuster, colour Red

Software	Operating System	Application software
Roland On Support	Windows 7/8/8.1/10 (32/64-bit)	-
Roland CutStudio	Windows® 7/8/8.1/10 (32/64-bit)	-
Roland CutStudio Plug-in for Adobe® Illustrator®	Windows®, MAC OS*	Adobe® Illustrator® CC(2014)/CC(2015)/CC(2017)
Roland CutStudio Plug-in for CorelDRAW®	Windows®*	CorelDRAW® X6/X7/X8

\*Operating system version must have compatibility with the software shown above.

RolandCare warranty	
	Enjoy the peace of mind of having one of the most comprehensive warranty packages in the industry, included with the CAMM-1 GR series.

Roland DG reserves the right to make changes in specifications, materials or accessories without notice. Actual output may vary. For optimum output quality, periodic maintenance to critical components may be required. Please contact your Roland DG dealer for details. No guarantee or warranty is implied other than expressly stated. Roland DG shall not be liable for any incidental or consequential damages, whether foreseeable or not, caused by defects in such products. Reproduction or use of copyrighted material is governed by local, national, and international laws. Customers are responsible for observing all applicable laws and are liable for any infringement. All trademarks are the property of their respective owners. Roland DG Corporation has licensed the MMP technology from the TPL Group.