Specifications

		SG-540	SG-300
Printing technology		Piezoelectric inkjet	
Media	**Width**	210 to 1,371 mm (8.3 to 54 in.)	182 to 762 mm (7.2 to 30 in.)
	Thickness	Max. 1.0 mm (39 mil) with liner, for printing Max. 0.4 mm (16 mil) with liner and 0.22 mm (9 mil) without liner, for cutting	
	Roll outer diameter	Max. 210 mm (8.3 in.)	
	Roll weight	Max. 30 kg (66 lb.)	Max. 25 kg (55 lb.)
	Core diameter (*1)	76.2 mm (3 in.) or 50.8 mm (2 in.)	
Printing/cutting width (*2)		Max. 1,346 mm (53 in.)	Max. 736 mm (29 in.)
Ink	**Type**	TrueVIS INK 500 cc pouch	
	Colors	Four colors (cyan, magenta, yellow, black,)	
Printing resolution (dots per inch)		Max. 900 dpi	
Cutting speed		10 to 300 mm/s (0.4 to 11.8 in/s)	
Blade force(*3)		30 to 500 gf	
Blade	**Type**	Roland CAMM-1 series blade	
	Blade offset	0.000 to 1.500 mm (0.0 to 59.1 mil)	
Software resolution (when cutting)		0.025 mm/step (0.98 mil/step)	
Distance accuracy (when printing) (*4) (*5)		Error of less than ±0.3 % of distance traveled or ±0.3 mm (±11.8 mil), whichever is greater	
Distance accuracy (when cutting) (*4)		Error of less than ±0.4 % of distance traveled or ±0.3 mm (±11.8 mil), whichever is greater When distance correction has been performed (when the setting for [CUTTING MENU] - [CALIBRATION] has been made): Error of less than ±0.2 % of distance traveled or ±0.1 mm (±3.9 mil), whichever is greater	
Repeatability (when cutting) (*4) (*6)		±0.1 mm (±3.9 mil) or less	
Alignment accuracy for printing and cutting (*4) (*7)		±0.5 mm (±19.7 mil) or less	
Alignment accuracy for printing and cutting when reloading media (*4) (*8)		Error of less than ±0.5 % of distance traveled by media or ±3 mm (±0.2 in.), whichever is greater	
Media heating system (*9)		Print heater set temperature: 30 to 45°C (86 to 113°F) Dryer set temperature: 30 to 50°C (86 to 122°F)	
Connectivity		Ethernet (100BASE-TX/1,000BASE-T, automatic switching)	
Power-saving function		Automatic sleep feature	
Power requirements		AC 100 to 120 V ±10%, 8.0 A, 50/60 Hz or AC 220 to 240 V ±10%, 4.0 A, 50/60 Hz	AC 100 to 120 V ±10%, 5.4 A, 50/60 Hz or AC 220 to 240 V ±10%, 2.7 A, 50/60 Hz
Power consumption	**During operation**	Approx. 1,050 W	Approx. 710 W
	Sleep mode	Approx. 20 W	
Acoustic noise level	**During operation**	65 dB (A) or less	
	During standby	48 dB (A) or less	
Dimensions (with stand)		2,685 (W) x 745 (D) x 1,310 (H) mm (105.7 [W] x 29.3 [D] x 51.6 [H] in.)	2,070 (W) x 745 (D) x 1,310 (H) mm (81.5 [W] x 29.3 [D] x 51.6 [H] in.)
Weight (with stand)		178 kg (392 lb.)	147 kg (324 lb.)
Environment	**Power on (*10)**	Temperature: 20 to 32°C (68 to 90°F), humidity: 35 to 80 % RH (no condensation)	
	Power off	Temperature: 5 to 40°C (41 to 104°F), humidity: 20 to 80 % RH (no condensation)	

Included items	Dedicated stands, power cord, media clamps, media holders, replacement blade for separating knife, User's Manual, etc.

*1
The media holders of this machine are designed to be used exclusively with media that has a paper tube (core) with an inner diameter of 3 inches. To use 2-inch media, the optional media flanges are required.

*2
The length of printing or cutting is subject to the limitations of the program.

*3
• 500 gf is the maximum instantaneous blade force.
• The blade force must be adjusted according to details such as the media thickness.

*4
• Media type: Media specified by Roland DG Corp.
• Temperature: 25°C (77°F), humidity: 50%
• Roll media must be loaded correctly.
• Applicable when all pinch rollers that can be used with the media width are used.
• Side margins: 25 mm (1.0 in.) or more for both the left and right margins
• Front margin: 35 mm (1.4 in.) or more
• Excluding expansion/contraction of the media
• Not guaranteed when the print heater or dryer is used.
• Assumes all correction and adjustment functions of the machine have been used properly.

*5
• Print travel: 1 m (39.4 in.)

*6
• [PREFEED] menu item must be set to "ENABLE."
Range for assured repetition accuracy
54-inch model
• For media with a width exceeding 610 mm (24.0 in.): Length 4,000 mm (157.5 in.)
• For media with a width of 610 mm (24.0 in.) or less: Length 8,000 mm (315.0 in.)
30-inch model
Length 4,000 mm (118.2 in.)

*7
• Provided that the media feed length is 3,000 mm (118.1 in.) or less.
• Excludes the effects of slanted movement and of expansion and contraction of the media.

*8
• Data size:
54-inch model：
1,000 mm (39.4 in.) in the media-feed direction, 1,346 mm (53.0 in.) in the carriage-movement direction
30-inch model：
1,000 mm (39.4 in.) in the media-feed direction, 736 mm (29 in.) in the carriage-movement direction
• No lamination
• Automatic detection of crop marks at 4 points when media is reloaded
• During cutting, [PREFEED] menu item must be set to "ENABLE."
• Excluding possible shift caused by expansion/contraction of the media and/or by reloading the media.

*9
• Warm-up is required after the power is turned on. This may require 5 to 20 minutes, depending on the operating environment.
• Depending on the ambient temperature and the media width, the set temperature may not be reached.

*10
• Operating environment

Use the machine in an operating environment within this range.

7

Appendix