

Roland VersaCMM VS Series Wide Format Print/Cut Inkjets

Specifications		VS-640	VS-540	VS-420
Printing technology		Piezoelectric inkjet		
Media	Width	8.3 to 64 in (210 to 1,625 mm)	8.3 to 51.9 in (210 to 1,317 mm)	7.2 to 42.2 in (182 to 1,071 mm)
	Thickness	Maximum 39 mil (1.0 mm) with liner for printing		
		Maximum 16 mil (0.4 mm) with liner and 9 mil (0.22mm) without liner for cutting		
	Roll outer diameter	Maximum 8.3 in (210 mm)		
	Roll weight	Maximum 88 lbs (40 kg)	Maximum 66 lbs (30 kg)	Maximum 55 lbs (25 kg)
	Core diameter *1	3 in (76.2 mm) or 2 in (50.8 mm)		
Printing/cutting width *2		Maximum 63 in (1,600 mm)	Maximum 53 in (1,346 mm)	Maximum 41.2 in (1,046 mm)
Ink cartridges	Type	Roland ECO-SOL MAX INK		
	Capacity	220 ml or 440 ml *MT and WH in 220 only		
	Colors	Eight colors (cyan, magenta, yellow, black, light cyan, light magenta, metallic silver and white), six colors (cyan, magenta, yellow, black, light cyan, and light magenta), or four colors (cyan, magenta, yellow, and black)		
Printing resolution (dots per inch)		Maximum 1,440 dpi		
Ink Configuration & Print Modes	Resolution			
4 Color CMYK				
Billboard (Banner)	360x720	248.6 sq ft(23.1 sq m)	228.2 sq ft(21.2 sq m)	N/A
High Speed (Banner)	540x360	190.5 sq ft(17.7 sq m)	180.8 sq ft(16.8 sq m)	N/A
Standard (Banner)	540x720	141 sq ft(13.1 sq m)	130.2 sq ft(12.1 sq m)	N/A
High Quality (Banner)	1440x720	58 sq ft(5.4 sq m)	54.9 sq ft(5.1 sq m)	N/A
High Speed (Vinyl)	360x720	141 sq ft(13.1 sq m)	132.4 sq ft(12.3 sq m)	124.9 sq ft(11.6 sq m)
Standard (Vinyl)	540x720	117 sq ft(10.9 sq m)	109.8 sq ft(10.2 sq m)	104.4 sq ft(9.7 sq m)
High Quality (Vinyl)	1440x720	51.6 sq ft(4.8 sq m)	43 sq ft(4 sq m)	31.2 sq ft(2.9 sq m)
6 or 8 Color CMYK				
High Speed (Banner)	360x720	95.8 sq ft(8.9 sq m)	90.4 sq ft(8.4 sq m)	N/A
Standard (Banner)	540x720	68.9 sq ft(6.4 sq m)	64.6 sq ft(6 sq m)	N/A
High Quality (Banner)	1440x720	24.7 sq ft(2.3 sq m)	21.5 sq ft(2 sq m)	N/A
High Speed (Vinyl)	360x720	68.9 sq ft(6.4 sq m)	64.6 sq ft(6 sq m)	60.3 sq ft(5.6 sq m)
Standard (Vinyl)	540x720	58 sq ft(5.4 sq m)	53.8 sq ft(5 sq m)	50.6 sq ft(4.7 sq m)
High Quality (Vinyl)	1440x720	24.7 sq ft(2.3 sq m)	21.5 sq ft(2 sq m)	20.5 sq ft(1.9 sq m)

Metallic/White				
CMYKLcLmMt (Blended)	1440x720	15 sq ft(1.4 sq m)	14.3 sq ft(1.33 sq m)	13.7 sq ft(1.27 sq m)
White Only	1440x720	24.7 sq ft(2.3 sq m)	21.3 sq ft(1.98 sq m)	20.5 sq ft(1.9 sq m)
Metallic Silver Only	1440x720	19.3 sq ft(1.8 sq m)	19.2 sq ft(1.78 sq m)	18.4 sq ft(1.71 sq m)
White -> CMYKLcLm CMYKLcLm -> White	1440x720	10.7 sq ft(1 sq m)	9 sq ft(0.84 sq m)	8.6 sq ft(0.8 sq m)
White -> CMYKMt CMYKMt -> White	1440x720	4.3 sq ft(0.4 sq m)	4.6 sq ft(0.43 sq m)	4.4 sq ft(0.41 sq m)
Metallic -> CMYKLcLm CMYKLcLm -> Metallic	1440x720	6.4 sq ft(0.59 sq m)	6.1 sq ft(0.57 sq m)	5.9 sq ft(0.55 sq m)
Cutting speed		10 to 300 mm/s		
Blade force		30 to 300 gf		
Blade offset		0 to 1.5 mm (0 to 0.059 in.)		
Software resolution (when cutting)		0.025 mm/step (0.000984 in./step)		
Distance accuracy (when printing) *3 *4		Error of less than ±0.3% of distance traveled, or ±0.3 mm, whichever is greater		
Distance accuracy (when cutting) *3		Error of less than ±0.4% of distance traveled, or ±0.3 mm, 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, whichever is greater		
Repeatability (when cutting) *3 *5		±0.1 mm or less		
Alignment accuracy for printing and cutting *3 *6		±0.5 mm or less		
Alignment accuracy for printing and cutting when reloading media *3 *7		Error of less than ±0.5% of distance traveled, or ±3 mm, whichever is greater		
Media heating system *8	Print heater	Setting range for the preset temperature: 30 to 45°C (86 to 112°F)		
	Dryer	Setting range for the preset temperature: 30 to 50°C (86 to 122°F)		
Connectivity		Ethernet (10BASE-T/100BASE-TX, automatic switching)		
Power-saving function		Automatic sleep feature		
Power requirements		AC 100 to 120 V ±10%, 8.2A, 50/60 Hz or	AC 100 to 120 V ±10%, 7.9A, 50/60 Hz or	AC 100 to 120 V ±10%, 7.2A, 50/60 Hz or
		AC 220 to 240 V ±10%, 4.2A, 50/60 Hz	AC 220 to 240 V ±10%, 4.0A, 50/60 Hz	AC 220 to 240 V ±10%, 3.7A, 50/60 Hz
Power consumption	During operation	Approx. 1,080 W	Approx. 1,050 W	Approx. 960 W
	Sleep mode	Approx. 14.8 W	Approx. 14.4 W	Approx. 14.5 W
Acoustic noise level	During operation	64 dB (A) or less		
	During standby	41 dB (A) or less		
Environmental	Power on	Temperature: 15 to 32°C (59 to 90°F) [20°C (68°F) or more recommended], Humidity: 35 to 80%RH		

		(no condensing)		
	Power off	Temperature: 5 to 40°C (41 to 104°F), humidity: 20 to 80%RH (no condensing)		
Dimensions (with stand)		101.4 (W) x 27.8 (D) x 43.5 (H) in (2,575 (W) x 705 (D) x 1,105 (H) mm)	91.2 (W) x 27.8 (D) x 43.5 (H) in (2,315 (W) x 705 (D) x 1,105 (H) mm)	79.4 (W) x 27.8 (D) x 43.5 (H) in (2,015 (W) x 705 (D) x 1,105 (H) mm)
Weight (with stand)		287 lbs (130 kg)	265 lbs (120 kg)	234 lbs (105 kg)
Optional Items		TU2 take-up reel		
Included items		Stand, power cord, blade, blade holder, media clamps, media holder, replacement blade for separating knife, software RIP, user's manual, etc.		

*1 The media holder of this machine is exclusively for media with a paper tube core inner diameter of 3 inches. To use a 2 inch media core, please use the optionally available media flanges.

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

*3 Using Roland specified media, loaded correctly, temperature: 25 °C (77°F), humidity: 50 %RH, all pinch rollers are used, 25 mm or more for both right and left margins and 35 mm or more front margin, excluding expansion or contraction of the media. and all correction and adjustment functions of this machine have been made properly. Not assured when the print heater or dryer is used,

*4 Using Roland specified media, print travel of 1m

*5 [PREFEED] menu item must be set to "ENABLE," 64-inch and 54-inch models, media over 610 mm wide, and 4,000 mm long. Media 610 mm wide or less and 8,000 mm long. 42-inch model, 3,000 mm long.

*6 Provided that media length is under 3,000 mm. Excluding possible shift caused by expansion/contraction of the media and/or by reloading the media.

*7 Using Roland specified media, 64-inch and 54-inch models: data size: 1,000 mm in the media-feed direction, 1,600 mm in the carriage-movement direction. 42-inch model: data size: 1,000 mm in the media-feed direction, 1,346 mm 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." Excludes the effects of skewed movement and of expansion and contraction of the media.

*8 Warm-up is required after power up. This may require 5 to 20 minutes, depending on the operating environment. The preset temperature may fail to be reached depending on the ambient temperature and media width.

Roland VersaWorks System Requirements	
Operating system	Windows® 7 (32-bit, 64-bit) Windows Vista® (32-bit, 64-bit) Windows® XP (32-bit, 64-bit)
CPU	Core™2 Duo, 2.0 GHz or faster recommended
RAM	2 GB or more recommended
Video card and monitor	A resolution of 1280 x 1024 resolution or more recommended
Free hard-disk space	40 GB or more recommended
Hard-disk file system	NTFS format
Optical drive	DVD-ROM drive