

## Roland Professional Print Management Software Included



Roland Metallic Color System Library



Roland VersaWorks® supports Adobe® Illustrator®, CorelDRAW® and other popular design software packages. Choose from a wide variety of layout functions including scaling, cropping, rotating, auto layout and tiling to optimise your print media. VersaWorks also features Roland Color System Libraries for accurate colour matching of traditional and metallic colours, and variable data printing which allows you to efficiently create a series of signs, labels and name badges in which the text and graphics change from one print to the next.



### Roland VersaWorks System Requirements

<b>Operating system</b>	Windows® 10 (32/64-bit); Windows® 8/8.1 (32/64-bit); Windows® 7 Ultimate/Professional (32/64-bit)
<b>CPU</b>	Core™ 2 Duo, 2.0 GHz or faster recommended
<b>RAM</b>	2 GB or more recommended
<b>Video card and monitor</b>	A resolution of 1,280 x 1,024 or more recommended
<b>Free hard-disk space</b>	40 GB or more recommended
<b>Hard-disk file system</b>	NTFS format
<b>Optical drive</b>	DVD-ROM drive

\*Roland VersaWorks is a 32-bit application, which runs on 64-bit Windows® with WoW64 (Windows 32-bit on Windows 64-bit). \*Windows® RT is excluded.

### Application software compatible with Cutting and Print&Cut

Adobe® Illustrator® 10, CS, CS2, CS3, CS4, CS5, CS6 / CorelDRAW® 11, 12, X3, X4, X5

## R-Works Easy-To-Use Roland Design Software Included

R-Works\* allows you to immediately start designing graphics for the BN-20, even if you do not have any design software of your own. With R-Works, you can quickly import commercially-available stock photos or personal photos taken with a digital camera. Create original layouts with text and graphics for custom T-shirts, labels and decals.

\* R-Works does not correspond to a white ink layout type.

**R-Works System Requirements** Windows® 10 (32/64-bit); Windows® 8/8.1 (32/64-bit); Windows® 7 Ultimate/Professional (32/64-bit)



Specifications		
<b>Printing technology</b>		Piezoelectric inkjet
<b>Media</b>	<b>Width</b>	150 to 515 mm (5.9 to 20.3 in.)
	<b>Thickness</b>	Maximum 1.0 mm (39 mil) with liner, for printing Maximum 0.4 mm (16 mil) with liner and 0.22 mm (9 mil) without liner, for cutting
	<b>Roll outer diameter</b>	Maximum 150 mm (5.9 in.)
	<b>Roll weight</b>	Maximum 6 kg (13.2 lbs.)
	<b>Core diameter</b>	76.2 mm (3 in.) or 50.8 mm (2 in.)
<b>Printing/cutting width<sup>*1</sup></b>		Maximum 480 mm (18.9 in.)
<b>Ink cartridges</b>	<b>Type and capacity</b>	Roland ECO-SOL MAX 2 and 3 (220cc cartridges)
	<b>Colours</b>	Five colours (cyan, magenta, yellow, black, and metallic silver or white) or Four colours (cyan, magenta, yellow, and black) (Five colours are a combination of ESL4 and ESL5)
<b>Printing resolution (dpi)</b>		Maximum 1,440 dpi
<b>Cutting blade</b>	<b>Type</b>	Roland CAMM-1 series compatible
	<b>Blade offset</b>	0.25 mm (9 mil)
<b>Cutting speed</b>		10 to 150 mm/s
<b>Blade force</b>		30 to 300 gf
<b>Software resolution (when cutting)</b>		0.025 mm/step
<b>Distance accuracy (when printing)<sup>*2 *3</sup></b>		Error of less than ±0.3% of distance travelled, or ±0.3 mm, whichever is greater
<b>Distance accuracy (when cutting)<sup>*2 *4</sup></b>		Error of less than ±0.4% of distance travelled, or ±0.3 mm, whichever is greater
<b>Repetition accuracy (when cutting)<sup>*2 *5</sup></b>		±0.1 mm or less
<b>Alignment accuracy for printing and cutting<sup>*2 *6</sup></b>		±0.5 mm or less
<b>Alignment accuracy for printing and cutting when reloading media<sup>*2 *7</sup></b>		Error of less than ±0.5% of distance travelled, or ±3 mm, whichever is greater
<b>Print heater<sup>*8</sup></b>		Temperature: 35°C (95°F)
<b>Connectivity</b>		USB (compliant with Universal Serial Bus Specification Revision 2.0)
<b>Power-saving function / Power requirements</b>		Automatic sleep feature / AC 100 to 240 V ±10 %, 1.5 A, 50 / 60 Hz
<b>Power consumption</b>	<b>During operation</b>	Approx. 90 W
	<b>Sleep mode</b>	Approx. 5.5 W
<b>Acoustic noise level</b>	<b>During operation</b>	62 dB (A) or less
	<b>During standby</b>	42 dB (A) or less
<b>Dimensions / Weight</b>		995 (W) x 585 (D) x 291 (H) mm (39.2 (W) x 23 (D) x 11.5 (H) in.) / 35 kg (79.4 lbs.)
<b>Environmental</b>	<b>Power on</b>	Temperature: 20 to 32°C (68 to 90°F), humidity: 35 to 80%RH (no condensation)
	<b>Power off</b>	Temperature: 5 to 40°C (41 to 104°F), humidity: 20 to 80%RH (no condensation)
<b>Included items</b>		Power cord, USB cable, blade, blade holder, Roland Software Package, Software RIP (Roland VersaWorks), User's Manual, etc.

\*1 The length of printing or cutting is subject to the limitations of the program. \*2 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. \*3 Using Roland specified media, print travel of 1m. \*4 Using Roland specified media, cut travel of 1m. \*5 Range for assured repetition accuracy: Length 1,000 mm \*6 Provided that media length is under 1,000 mm. Excluding possible shift caused by expansion/contraction of the media and/or by reloading the media. \*7 Using Roland specified media, data size: 1,000 mm in the media-feed direction, 480 mm in the carriage-movement direction. No lamination. Automatic detection of crop marks at 4 points when media is reloaded. 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 35°C (95°F) depending on the ambient temperature and media width.

### About Metallic Silver and White Inks

Due to the nature of white and silver inks, the pigment in these inks will settle in the cartridge and ink flow system, requiring you to shake the cartridge before each use. Outdoor durability is three years for CMYK inks, one year for white ink, and one to three years for metallic silver ink, depending on the media used. Roland strongly recommends lamination for both indoor and outdoor graphics to ensure the quality of metallic inks.

Options	Model	Description
<b>ECO-SOL MAX 3 Ink</b>	ESL5-MG	Magenta, 220 cc
	ESL5-YE	Yellow, 220 cc
	ESL5-CY	Cyan, 220 cc
	ESL5-BK	Black, 220 cc
<b>ECO SOL MAX 2 Ink</b>	ESL3-MT	Metallic silver, 220 cc
	ESL3-WH	White, 220 cc
<b>Cleaning liquid</b>	SL-CL	Cleaning liquid, 1 pc.
<b>Blade</b>	ZEC-U5022	For thick, reflective and fluorescent vinyl, 2pcs.
<b>Blade holder</b>	XD-CH3	Blade holder with blade extension adjuster, made of resin



Optional Stand  
**PNS-24**

Roland reserves the right to make changes in specifications, materials or accessories without notice. Your actual output may vary. For optimum output quality, periodic maintenance to critical components may be required. Please contact your Roland dealer for details. No guarantee or warranty is implied other than expressly stated. Roland shall not be liable for any incidental or consequential damages, whether foreseeable or not, caused by defects in such products.

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