

## Desktop printer with cutting function: User-friendly and professional

Introducing the VersaSTUDIO BN-20. This desktop machine combines printing with cutting, both to an extremely high quality. The BN-20 can be used for creating magnificent stickers, posters and heat transfers, for example.

The BN-20 can also be used with metallic silver ink. By combining this ink with standard colours, you can create more than 500 sparkling metallic colours. The results are really amazing!

- Compact device
- 51 cm wide
- Printing and cutting in one
- Metallic ink
- User-friendly
- Low investment
- Indoor and outdoor applications



### Heat transfers for textiles

You can use the BN-20 to print fantastic heat transfers for T-shirts, caps and other textiles right at your desktop. The machine automatically cuts out the contours, so you can apply the transfers immediately. The sparkling metallic ink gives your transfers a special touch.\*1



### Stickers and labels

Thanks to the Roland DG's integrated printing and cutting functions, you print and cut your design in one smooth workflow. All kinds of labels and stickers are easy to make; original covers for mobile telephones and laptops, for example.



### Point of sale displays

Use the BN-20 to create eye-catching displays in all shapes and colours. It is as profitable to make a unique display unit as to produce a whole range of products.

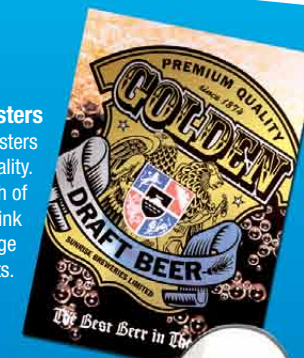
### Cutting vinyl

You can also use the BN-20 as a cutting plotter. The machine can be used for cutting out vehicle lettering, window stickers, signs and many more items.



### Posters

The BN-20 prints your posters and photographs in the highest quality. The metallic ink adds an extra touch of luxury. Mixing the silver metallic ink with other colours produces a huge range of metallic tints.



### Eco solvent or water-based ink

Choose between Roland DG's award-winning Eco-Sol MAX ink and water-based FPG ink. Eco-Sol MAX is perfectly suitable for both indoor and outdoor applications. Choose between a configuration of exclusively standard colours (CMYK) and a configuration of standard colours plus metallic silver. Prints produced with Eco-Sol MAX last up to three years in outdoor applications without laminate.\*2 For a longer life, laminating is recommended. The water-based ink is ideal for indoor applications.\*3 The ink type is chosen at the moment of purchase.



\*1 Use metallic silver only as a spot colour on textiles. If you mix the ink with others colours, this reduces the washability.  
\*2 Lifespan is based on accelerated weather tests by Roland DG. The effective lifespan varies depending on the location and application. Some applications, including car stickers, should be laminated.  
\*3 The ink type is chosen at the moment of purchase.

Specifications		
Printing technology		Piezoelectric inkjet
Media	Width	150 to 515 mm
	Thickness	Maximum 1.0 mm with liner, for printing Maximum 0.4 mm with liner and 0.22 mm without liner, for cutting
	Roll outer diameter	Maximum 150 mm
	Roll weight	Maximum 6 kg
	Core diameter	76.2 mm or 50.8 mm
Printing/cutting width*1		Maximum 480 mm
Ink cartridges	Type and capacity	Roland Eco-Sol MAX (220 cc cartridge) or Roland aqueous pigment (FPG) ink (220 cc cartridge)
	Colours	Five colours (cyan, magenta, yellow, black, and metallic silver) or Four colours (cyan, magenta, yellow, and black) (Five colours are only Eco-Sol MAX)
Printing resolution (dpi)		Maximum 1,440 dpi
Cutting blade	Type	Roland CAMM-1 series compatible
	Blade offset	0.25 mm
Cutting speed		10 to 150 mm/s
Blade force		30 to 300 gf
Software resolution (when cutting)		0.025 mm/step
Distance accuracy (when printing) *2 *3		Error of less than $\pm 0.3\%$ of distance travelled, or $\pm 0.3$ mm, whichever is greater
Distance accuracy (when cutting) *2 *4		Error of less than $\pm 0.4\%$ of distance travelled, or $\pm 0.3$ mm, whichever is greater
Repetition accuracy (when cutting) *2 *5		$\pm 0.1$ mm or less
Alignment accuracy for printing and cutting *2 *6		$\pm 0.5$ mm or less
Alignment accuracy for printing and cutting when reloading media *2 *7		Error of less than $\pm 0.5\%$ of distance travelled, or $\pm 3$ mm, whichever is greater
Print heater *8		Temperature: 35°C
Connectivity		USB (compliant with Universal Serial Bus Specification Revision 2.0)
Power-saving function / Power requirements		Automatic sleep feature / AC 100 to 240 V $\pm 10\%$ , 1.0 A, 50 / 60 Hz
Power consumption	During operation	Approx. 90 W
	Sleep mode	Approx. 5.5 W
Acoustic noise level	During operation	62 dB (A) or less
	During standby	42 dB (A) or less
Dimensions / Weight		1009 (W) x 582 (D) x 293 (H) mm / 35 kg
Environmental	Power on	Temperature: 20 to 32°C, humidity: 35 to 80%RH (no condensation)
	Power off	Temperature: 5 to 40°C, humidity: 20 to 80%RH (no condensation)
Included items		Power cord, USB cable, blade, blade holder, 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, 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 depending on the ambient temperature and media width.

Options		
Eco-Sol MAX Ink	ESL3-MG	Magenta, 220 cc
	ESL3-YE	Yellow, 220 cc
	ESL3-CY	Cyan, 220 cc
	ESL3-BK	Black, 220 cc
	ESL3-MT	Metallic silver, 220 cc
	SL-CL	Cleaning liquid, 1 pc.
Aqueous Pigment Ink	FPG-MG	Magenta, 220 cc
	FPG-YE	Yellow, 220 cc
	FPG-CY	Cyan, 220 cc
	FPG-BK	Black, 220 cc
	CJ-CL	Cleaning liquid, 1 pc.
Blade	ZEC-A5022	For thick, reflective and fluorescent vinyl, 2pcs.
Blade holder	XD-CH3	Blade holder with blade extension adjuster, made of resin

#### Roland VersaWorks System Requirements

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

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

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

#### R-Works System Requirements

Windows® 7 Professional/Ultimate (32-bit); Windows Vista® Business/Ultimate (32-bit); Windows® XP Professional Service Pack 2 or later (32-bit)

#### About metallic silver Ink

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

Imagine. 

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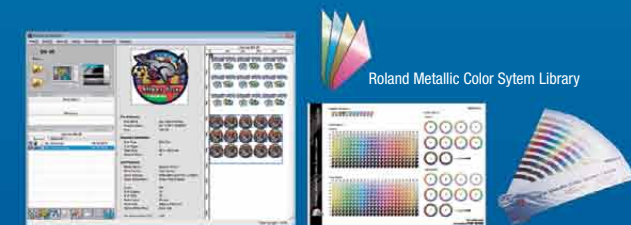
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## Plug and play

The BN-20 is supplied with everything you need to get to work straight away: simple design software and professional printing software. In short, the BN-20 is a complete solution in a box for your company.

### Professional printing software included

Roland DG VersaWorks supports Adobe® Illustrator®, CorelDRAW® and other popular design programs. The software offers you an extensive range of functions, such as scaling, rotating, cropping and tiling, to enable optimal use of your printing material. VersaWorks also includes various colour libraries, in which you are sure to find the perfect colour for your print job. Moreover, VersaWorks allows you to print variable data. That comes in handy when, for example, you want to print a series of labels or name badges where the text and/or image changes from print to print.



### Design software included

R-Works software helps you create designs that you can print and cut out using the BN-20. You can import your own stock photographs or design your own text and images. Creating original T-shirts, labels and stickers is a piece of cake.

