# VersaSTUDIO
## BN-20

**Desktop inkjet printer / cutter**

# Add Unlimited Value To Your Business with the Versatile VersaSTUDIO BN-20

## 4 Colours — High-Quality and Low Cost Durable Outdoor Prints
CMYK

### Mobile Phone and Laptop Wraps

Roland Print&Cut versatility enables you to print and digitally die cut graphics in one seamless workflow for custom labels and decals, including mobile phone skins, laptop wraps and more.
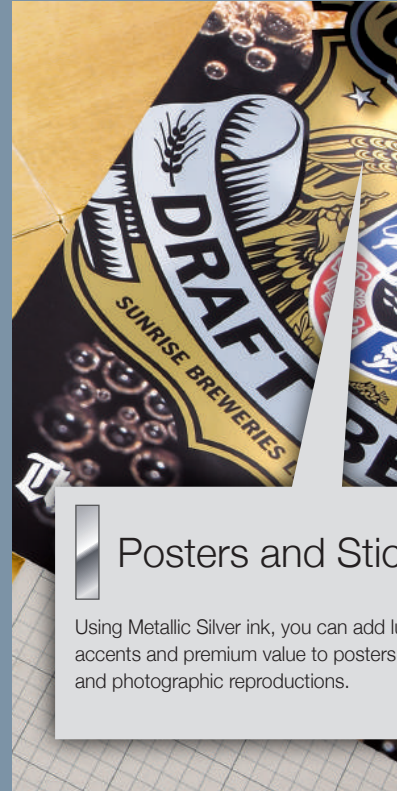
**Print&Cut**

### POS and POP

With the BN-20, you can produce POP displays in unique shapes and colours that attract attention and drive retail sales. Create a single POP or an entire campaign, profitably, with all the convenience of our easy-handling 220cc ink cartridges.

## 4 Colours + Metallic — Add Value to
CMYK + Metal

### Posters and Stic

Using Metallic Silver ink, you can add l accents and premium value to posters and photographic reproductions.

### Cut Vinyl Signage

From pinstriping for vehicles and motorcycles to window signs and displays, contour cutting is essential to your production workflow. The BN-20 enables you to cut vinyl signs using a wide variety of fonts*.

*The BN-20 supports TrueType and OpenType fonts.

### Labels and Stickers for Outdoor Display

The BN-20 comes with Roland ECO-SOL MAX ink for outdoor signs, labels and stickers. Graphics are easy to produce and durable for up to three years outdoors without lamination.*1

*1 Three-year outdoor durability is based on accelerated weather tests conducted by Roland DG. Results may vary depending on the location and application. Some applications, including vehicle graphics, may require lamination.

**Outdoor Durable Inks 3 years**

The VersaSTUDIO BN-20 enables you to launch a stream of new businesses from your desktop. This compact professional inkjet can produce durable graphics for outdoor applications, and its Print&Cut capabilities allow you to produce labels and decals with ease. Metallic silver ink is perfect for creating striking effects, and White ink is ideal for transparent or coloured media applications. In short, the versatility of the VersaSTUDIO BN-20 adds unlimited potential to produce creative applications and add value to your business.

## o your Business with Metallic Prints
### lic Silver Ink

### ckers

uxurious
, decals

## Heat Transfers for Garment Decoration

Right at your desktop, you can print quality heat transfers and contour cut them into any shape for stylish results. Apply Metallic Silver ink for hundreds of striking metallic colour effects.*3

### White
Colours

### Eye-Catching Creativity on Transparent Media
CMYK + White Ink

## Window Signs

Make shop windows come alive! See-through window displays are easily produced using transparent media. The effective use of white ink adds impact to display graphics.

## Labels and Stickers

Handle short runs for transparent stickers! Transparent labels and decals give a luxurious feel. Now you can handle short runs for teams, clubs and other groups.
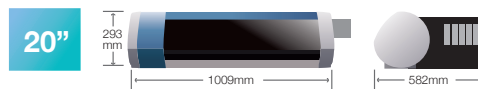
## Package Designs

Low-cost prototypes for design proposals. The BN-20 gives you the freedom to create packaging design prototypes on silver media. This increases your ability to offer winning proposals while minimising costs.

## A Complete Solution

The BN-20 enables you to print graphics up to A2 size or 480 mm wide (18.9"), including crop marks for easy finishing. Featuring its own print management and design software, the BN-20 is a complete business solution in a box.

**20"**

293 mm

1009mm

582mm

*Roland VersaWorks Dual*
*Roland VersaWorks Dual*
RIP & PRINT MANAGEMENT SOFTWARE

## VersaSTUDIO
### SIGN MAKER BN-20

- CMYK
- CMYK + Metallic Silver Ink
- CMYK + White Ink

Roland Intelligent Pass Control

ECO-SOL MAX

Print &Cut

# Roland VersaWorks Dual Print Management Software Included

Roland VersaWorks Dual opens up a whole new world of possibilities to print businesses, with the capability to process natively both PostScript and PDF format files to streamline tasks and increase efficiency. Intricate design files with elements such as drop shadows and transparencies can be flawlessly reproduced.

Included with VersaWorks Dual is Roland DG's own Roland Color system - which features more than 1,000 spot colours and 512 metallic colours. Accurate, vibrant colour production has never been easier to achieve. Roland Texture Library also offers a full range of luxe 3D effects for users of our VersaUV printer range. VersaWorks also contains a PANTONE® spot colour matching function which automatically converts PANTONE® spot colours in your design file to a CMYK value for colour accurate output.

## Summary

· Easy-to-Use Graphical User Interface
· Supports the last generation of Roland DG technology
· Roland Color spot colour management system, including more than 100 standard colours and 512 metallic colors (VersaSTUDIO, VersaCAMM, VSi and SOLJET XR-640)
· Manages up to four Roland devices
· Simultaneous RIP and print capability
· Support for contour cutting
· Built-in PANTONE® library automates spot color matching
· Roland Color features more than 1,000 spot colors and 512 metallic colors that can be precisely matched using reference tools
· Predictive ink calculator estimates the amount of ink needed for each job
· Roland Texture Libraries for metallic and clear inks

## Specifications

| Specifications | | |
|---|---|---|
| Printing technology | | Piezoelectric inkjet |
| Media | Width | 150 to 515 mm (5.9 to 20.3 in.) |
| | Thickness | 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 |
| | Roll outer diameter | Maximum 150 mm (5.9 in.) |
| | Roll weight | Maximum 6 kg (13.2 lbs.) |
| | Core diameter | 76.2 mm (3 in.) or 50.8 mm (2 in.) |
| Printing/cutting width*1 | | Maximum 480 mm (18.9 in.) |
| Ink cartridges | Type and capacity | Roland ECO-SOL MAX 2 and 3 (220cc cartridges) |
| | Colours | 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) |
| Printing resolution (dpi) | | Maximum 1,440 dpi |
| Cutting blade | Type | Roland CAMM-1 series compatible |
| | Blade offset | 0.25 mm (9 mil) |
| 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 ±0.3% of distance travelled, or ±0.3 mm, whichever is greater |
| Distance accuracy (when cutting) *2 *4 | | Error of less than ±0.4% of distance travelled, or ±0.3 mm, whichever is greater |
| Repetition accuracy (when cutting) *2 *5 | | ±0.1 mm or less |
| Alignment accuracy for printing and cutting *2 *6 | | ±0.5 mm or less |
| Alignment accuracy for printing and cutting when reloading media *2 *7 | | Error of less than ±0.5% of distance travelled, or ±3 mm, whichever is greater |
| Print heater *8 | | Temperature: 35°C (95°F) |
| Connectivity | | USB (compliant with Universal Serial Bus Specification Revision 2.0) |
| Power-saving function / Power requirements | | Automatic sleep feature / AC 100 to 240 V ±10 %, 1.5 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 | | 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.) |
| Environmental | Power on | 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 | | Power cord, USB cable, blade, blade holder, Roland Software Package, Software RIP (Roland VersaWorks Dual), User's Manual, etc. |

| Options | Model | Description |
|---|---|---|
| ECO-SOL MAX 3 Ink | ESL5-MG | Magenta, 220 cc |
| | ESL5-YE | Yellow, 220 cc |
| | ESL5-CY | Cyan, 220 cc |
| | ESL5-BK | Black, 220 cc |
| ECO SOL MAX 2 Ink | ESL4-MT | Metallic silver, 220 cc |
| | ESL4-WH | White, 220 cc |
| Cleaning liquid | SL-CL | Cleaning liquid, 1 pc. |
| Blade | ZEC-U5022 | For thick, reflective and fluorescent vinyl, 2pcs. |
| Blade holder | XD-CH3 | Blade holder with blade extension adjuster, made of resin |

Optional Stand
## PNS-24

*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.