New Product Information
SOLJET PRO II
SJ-1000EX
Wide Format InkJet Printer

Overview

As the newest addition to Roland's Wide Format inkjet printer series, the SJ-1000EX represents the newest and largest printer in our family of SOLJET printers. Continuing Roland DGA's history of innovative products, this new model features some significant improvements over previous industry grand format printers. Highlighted in this overview are the enhancements that make this printer a giant leap forward for Roland DGA Corporation and our partners.

These new features include:

- **Maximum 104" media width**
- **Automated media feed and take-up system**
- **220 lb. roll capacity**
- **Integrated Ethernet 10Base-T/100Base TX**
- **Integrated Tri-Heater system**

- **Billboard print mode (484 sqft/hour)**
- **Unique ink set for brilliant color at high speed**
- **High density/low resolution print method**
- **Roland COLORIP® software and profiles**

Fig 1. SJ-1000EX front view

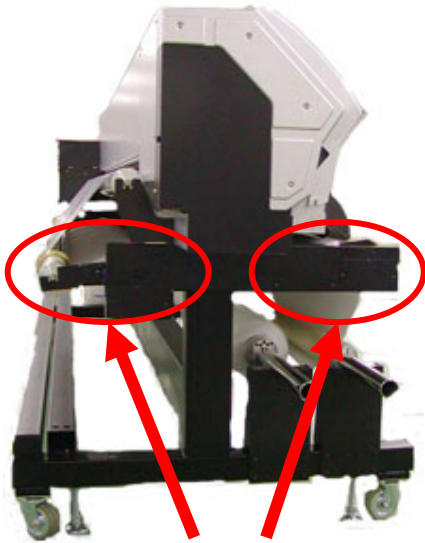# New Features

♣ Expanded Print Width

The SJ-1000EX has a maximum media width of 104" and is capable of printing up to 102.33" wide. The SJ-1000EX can print on media as small as 48 inches wide with a minimum print width of 47.25". This increase in printable media width is significant even when compared to the typical 98" width of other grand format printers.

♣ Billboard Print Mode

The newly developed Billboard Print Mode enables the SJ-1000EX to print up to 484 square feet per hour. This 360x360dpi, bi-directional, single-pass mode was specifically designed for large sign and banner applications. Output from the SJ-1000EX's Billboard Mode is comparable to other grand format printers quality and speed.

♣ Automated Feed and Take-up

The SJ-1000EX includes an automated media feed and take-up system to facilitate precision printing, even when unattended. This pre-assembled unit includes front mounted feed and take-up rollers and a dual-idler roller system that applies tension to larger rolls to ensure media is fed straight. As the tension is increased on the rear dancing rollers, the feed motor is actuated and, as tension is decreased on the front idler roller, the take-up motor turns on to take up any slack.
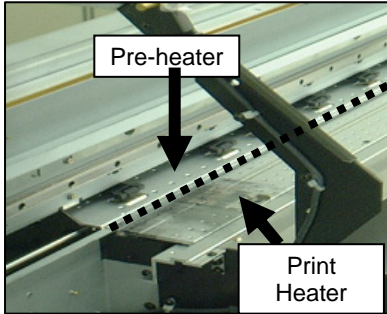
Idler Roller System

Take-up/Feed System

⚜ Integrated Tri-Heater System

The integrated Tri-Heater system on the SJ-1000EX makes high speed printing and take-up possible. The heating system consist of three elements. A Pre-heater opens pores in the vinyl or banner material to improve media receptiveness. The Print Heater helps to accelerate ink fastness and brightness by ensuring that ink is absorbed into the substrate. Finally, the Dryer accelerates ink drying to improve productivity, workability and scratch resistance.

Pre-heater

Print Heater

Dryer

⚜ 220lb. roll capacity

The robust front mounted feed and take-up system of the SJ-1000EX is capable of handling rolls weighing up to 220 lbs. The ability to handle heavier rolls gives you the advantage of printing longer runs of full-width media without having to change rolls frequently.

⚜ Unique Ink Set for Brilliant Color at High Speed

The High Density / Low Resolution Print Method of the SJ-1000EX allows for higher speed printing. By using a 360x360 bi-directional mode with double sets of Cyan and Magenta inks, the printer is able to deliver brilliant color on uncoated media that would otherwise appear washed out. The added Cyan and Magenta cartridges bolster these colors to match the intensity of Black and Yellow and also allow for longer printing before having to replace ink cartridges.

Machine	Head	Low Resolution	High Resolution
SJ-1000EX CMYK	C M Y K **M**	360×360dpi	720×1440dpi
6 Color Printer CMYKLcLm	K C M **LcLm** Y	450×360dpi	720×1440dpi

➕ Integrated Ethernet Connectivity

The SJ-1000EXs integrated 10Base-T/100Base-TX Ethernet card eliminates data starvation and proximity requirements generally associated with Parallel, USB and FireWire connections.

➕ Roland ColorRIP

Every SJ-1000EX includes Roland ColorRIP (RCR), RCR is fully compatible with Adobe PostScript® 3 to ensure file compatibility and handle complex files and gradients. Robust layout controls include automatic and manual cropping, nesting and tiling. You can tile a job automatically or manually, or crop and image right in the RIP to fit a specific size requirement. RCR lets you nest multiple jobs to maximize media usage, and step & repeat allows you to efficiently layout multiple page documents. A label-printing feature allows you to automatically attach notes including RIP settings to your work, creating more consistent results over multiple print runs. Registration is improved on extra long output using the block-print function.

ICC profiles for Roland Eco-SOL ink and recommended media are included to ensure beautiful, consistent results every time. For the color connoisseur, RCR gives users tremendous control. With support of all popular color devices, you can easily re-linearize existing ICC profiles. Used in tandem with any ICC compliant profiling software and advanced ink controls, you can build your own custom profiles with superior controls for maximizing color gamut and reducing ink consumption.

Summary

The best word to summarize the exciting new features of the SJ-1000EX is Productivity. With a maximum print speed of 484 sqft/hour, an integrated heating system, the high-definition at low density print method that uses a unique ink set to enable brilliant color output at high speed, automatic feed and take-up system and more, the SJ-1000EX is both the newest and highest level of Roland quality and output. The SJ-1000EX has been designed for those customers who require grand format functionality but value the reliability and performance of Roland-manufactured printers.