SOLJET PRO II V SJ-1045
Wide Format Inkjet Printer

Overview

Roland DGA Corporation is pleased to announce the SJ-1045. As the latest installment in the Roland SOLJET PROII V series, the SJ-1045 offers a new level of productivity that has re-written the rule book for digital inkjet printers. This new grand format printer from Roland accommodates 104' wide media, giving it a maximum print width of 102". The SJ-1045 also includes a new high capacity ink system and a heavy-duty media handling system designed for high volume unattended output. These remarkable new features establish the SJ-1045 as the first low maintenance, high production, grand format printer available for the digital inkjet market.

In addition, the SJ-1045 accommodates two ink configurations -- CCMMYK and CMYKLcLm -- designed to meet the demands of both high quality and high productivity printing. The 6-color CMYKLcLm ink configuration enables the SJ-1045 to produce stunning, high quality, wide gamut, color graphics with smooth tonal gradations and is useful where viewing distances will be short. Engineered for high speed production, the 4-color CCMMYK mode has been designed for the high volume, print-for-pay market. This high-density ink configuration yields a maximum print speed of 484 sfph while maintaining color density and quality that surpasses other printers.

The SJ-1045 includes the Roland VersaWorks™ RIP. Created by Roland, VersaWorks is a full featured Rater Image Processor designed specifically for the PROII V series printers. This custom tailored RIP takes full advantage of the SJ-1045 printer's outstanding capabilities. Built on a genuine Adobe® PostScript® CPSI 3016™engine, VersaWorks offers the highest quality output without a high learning curve.

This guide is meant to give you an overview of some of the incredible features of this exciting new printer.

SJ-1045 Features:

- **Maximum 104" media width**
- **New Ink Configurations**
- **High Capacity Ink System**
- **Automated media feed and take-up system**
- **Integrated Ethernet 10Base-T/100Base TX**
- **Integrated Tri-Heater system**
- **Roland VersaWorks™ RIP**

Fig 1. SJ-1045 front view

New Features

Expanded Print Width

The SJ-1045 has a maximum media width of 104" and is capable of printing up to 102.33" wide. This increase in printable media width is significant even when compared to the typical 98" width of other grand format printers. Conversely, the SJ-1045 can print on media as small as 48 inches wide with a minimum print width of 47.25".

New Ink Configurations

For added versatility, the SJ-1045 has the option of running either a 4-color (CCMMYK) or 6-color (CMYKLcLm) ink configuration. When printing at higher speeds, many printers can produce only low density color. Roland's unique 4-color CCMMYK configuration was designed to achieve the highest print speeds possible while maintaining vibrant high density colors. The SJ-1045 takes advantage of a double set of Cyan and Magenta printheads to ensure the best image color density possible.

The SJ-1045's 6-color configuration is CMYKLcLm. The addition of Light Cyan and Light Magenta produces higher color quality, gamut and tonal density in any print mode. This allows the 6-color SJ-1045 to produce stunning images, especially useful for where viewing distances are shorter.

High Capacity Ink System

Demonstrating the high-production focus of the SJ-1045, the high capacity ink system extends the time before an ink cartridge needs to be replaced. Employing a total of 24 ink cartridges, this system will be configured differently depending on choice of ink configuration. In 4-color mode, the system will hold 8 cartridges each for Cyan and Magenta. It will also have 4 cartridges for the Black and Yellow. While in 6-color, mode the system will hold 4 sets of CMYKLcLm.

The system has an ink empty warning and allows for replacing cartridges without pausing the printer, allowing for even greater production capacity. The inclusion of the high capacity ink system extends the production value of the SJ-1045 to new levels.
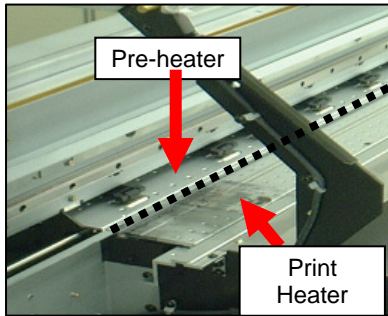

High Capacity Ink System

Automated Media Feed and Take-up System

The SJ-1045 includes an automated media feed and take-up system to facilitate precision printing, even when unattended. This pre-assembled unit includes convenenient front-mounted feed and take-up rollers and a dual-idler roller system that applies tension to larger rolls to ensure media feeding is 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.

The robust front-mounted feed and take-up system of the SJ-1045 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.

Integrated Tri-Heater System

The integrated Tri-Heater system on the SJ-1045 makes high speed printing and take-up possible. The heating system consists 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.

Integrated Ethernet Connectivity

The SJ-1045's integrated 10Base-T/100Base-TX Ethernet card eliminates data starvation and proximity requirements generally associated with Parallel, USB and FireWire connections.

Roland VersaWorks RIP

The SJ-1045 was developed to work seamlessly with Roland VersaWorks. This all-new RIP was composed by Roland to ensure exceptional production output with unmatched ease of use. VersaWorks is built upon the genuine Adobe® PostScript® CPSI 3016™engine. It supports true Adobe® PostScript® 3 and can be used on Windows XP and 2000 operating systems.

Summary

Productivity, easy of use and quality summarize the exciting new features of the SJ-1045. With a maximum print speed of 484 sqft/hour in 4-color configuration, an integrated heating system, automatic feed and take-up system and the new high capacity ink system for longer production runs, the SJ-1045 represents both the newest inkjet device and the highest level of Roland quality and output. The SJ-1045 has been designed for those customers who require grand format functionality with the reliability and performance of Roland-manufactured printers.