

PURE PRINT PERFORMANCE



ROLAND INTELLIGENT PASS CONTROL™ DELIVERS

THE PROOF IS IN THE PRINT

INNOVATIVE ROLAND TECHNOLOGY LEADS TO A NEW STANDARD OF PRINT EXCELLENCE

FOR 25 YEARS, Roland has driven advancements in the signmaking, vehicle graphics, screenprinting, fine art reproduction, apparel decoration, and sublimation industries. From vinyl cutters to today's high-performance print/cut solutions, Roland vision, precision and commitment to quality have revolutionized the way creative professionals work.

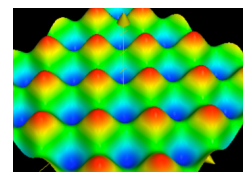
Today, Roland's lineup of premier eco-solvent inkjets includes the SOLJET PRO III XC printer/cutter and XJ printer series, winner of the 2007 DPI Product of the Year Award. Thanks to a remarkable combination of advanced technology, these products deliver a level of print quality and performance never before available.

Roland Intelligent Pass Control™

Many companies today are attempting to address the issue of banding with solutions that involve making banding patterns less visible by making them less linear.

Roland has taken a different approach.

Roland Intelligent Pass Control is based on a 3-dimensional system that uses a Precision Firing Pattern™ in combination with optimized mask patterns to control the ink firing at the edge of each pass, virtually eliminating banding and delivering the proper density for each specific media. As a result, XJ inkjets print unmatched image quality overall with smoother gradations and dense, flawless solid colors in every print mode.



Conceptual diagram of 3-dimensional control system



Closeup of the precision ink firing pattern

This revolutionary patent-pending technology also increases productivity by optimizing print quality at high speeds. In fact, Roland Intelligent Pass Control has doubled productivity in Standard print mode on vinyl on the XC-540.

Variable Droplet Technology

XJ printers precisely control droplet placement in both the print head travel and paper feed directions to provide up to 1440x1440 dpi resolution.

Equipped with Piezo print heads, the XJ design features a digital servomotor to control the media for precision imaging. Variable droplet technology uses micro-precise ink droplets of three different sizes depending on the type of output. This state-of-the-art technology delivers truly breathtaking output with beautifully smooth, dot-free tones even at high print speeds on a wide range of media.

ECO-SOL MAX Ink

One of the most important element of print performance is quality ink. ECO-SOL MAX eco-solvent ink delivers high color density and a wide gamut for exceptional images. Versatile ECO-SOL MAX performs on a wide range of coated and uncoated media, including backlit film. Fast-drying and scratch-resistant, MAX produces prints that dry quickly for easy handling throughout the production and finishing processes. ECO-SOL MAX is virtually odorless for maximum convenience and comfort.

Advanced Media Handling

The ultimate quality of the print is often determined before a single drop of ink has been placed. With the most advanced and precise media handling systems in the industry, Roland XJ/XC series printers allow you to experience optimum performance on a wide variety of media options.

The advanced media feed and take-up system includes multiple permanent repositionable pinch rollers, media guides, a vacuum platen and twin head heights to ensure correct media feed for heavier media. A heavy-duty media take up system facilitates trouble-free unattended printing.

Spot Color Control

Effective spot color management presents two distinct challenges: identifying desired spot colors and reproducing them accurately. Roland Color is the only color matching system for digital printing that fully addresses both sides of this equation.

Because everyone describes color differently, it's important to have a visual reference tool that can be used to identify the desired color. With Roland Color, you can produce highly customized spot color charts, swatch books, and peel-and-stick swatch

sheets on your own media using your own Roland device. These reference tools can be reviewed with your customer to choose the desired spot color in advance. Once you and your customer agree on the desired spot color, you can then print that color with 100 percent accuracy using your Roland inkjet.



Roland Color swatch books

VersaWorks™ RIP Software

Even with advanced technology, it takes more than a great printer to make a great print. It

takes every element – printer, inks, media and software – working in harmony. Most busy shops just don't have time to wrestle with complicated software setups, media profiling and labor-intensive spot color matching.

Roland has done the ground work for you. Roland eco-solvent inkjets come complete with VersaWorks™, a powerful RIP software packed with features for the ultimate in color management, ease-of-use and productivity, and are supported by a comprehensive line of ink and media options that have been tested, profiled and certified for optimum performance with Roland products. ■



Roland PRO III XJ-640 Printer shown with optional DU-640 heater/blower unit