HI-FI JET PRO
HIGH FIDELITY 8 COLOR INKJET PRINTER

Model
FJ-600/500/400

A new era in wide-format printing
The Roland Hi-Fi JET PRO represents dramatic progress over the earlier, award-winning Hi-Fi JET in both print quality and speed. The Hi-Fi JET PRO utilizes Roland's new dual-head, variable droplet technology to deliver breathtaking fine art reproductions with 8-color printing, or very high-speed output with double CMYK printing. With the Hi-Fi JET PRO, Roland once again leads the way to a new era of superb wide-format inkjet printing.

**Elevating the Level of Fine-Art Reproduction**

*8-Color Printing*

Now there is no need to choose between rich colors and wider gamut or smooth, natural gradations and skin tones. 8-color printing with variable droplets on the Hi-Fi JET PRO accomplishes both simultaneously—never before possible with 4 or even 6-color printing.

*Variable Droplet Control Technology*

By varying the size of individual ink droplets, Roland’s new technology provides a far greater number of dot sizes, providing a new standard for silky-smooth, grain-free print quality. Inkjet output finally rivals true continuous tone.

*1440 x 1440 dpi Resolution*

A milestone in high-resolution color printing, 1440 x 1440 dpi renders the subtlest details and textures with total realism and natural beauty.

*Precise Color Matching*

Built into the Roland ColorChoice RIP are ICC color profiles to ensure accurate, consistent, repeatable color matching—precise enough for digital proofing.

**Ultrahigh-Speed Productivity**

*Double 4-Color Printing*

Delivers A0-size 4-color prints in as little as five minutes at 540 x 360 dpi (127 sqft/h).

*Wider Print Head with 96 Nozzles per Color*

The revolutionary new print head, with 96 nozzles per color, covers a wider printing area in each pass, greatly enhancing throughput.

*2X Faster Head Speed*

Print heads have been engineered to operate at up to twice the speed of earlier Hi-Fi JETS for a new dimension in production performance.

**Side-by-Side Pigmented and Dye-Based Inks**

The option of installing both pigmented and dye-based CMYK inks on a single printer saves space and greatly boosts operating efficiency.

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*Model FJ-600*

Maximum media acceptance: 1117 mm (44”)
Minimum printing width: 441 mm (17.3”)

*Model FJ-500*

Maximum media acceptance: 1371 mm (54”)
Minimum printing width: 500 mm (19.7”)

*Model FJ-400*

Maximum media acceptance: 1625 mm (64”)
Minimum printing width: 400 mm (15.7”)

*1 Printing in 8-colors and double 4-colors, or pigmented and dye-based inks working simultaneously.
*2 True 1440 dpi resolution in vertical direction and apparent 1440 dpi resolution in horizontal direction.
*3 Compared to previous Hi-Fi JET models.
Print Quality and Speed You Never Imagined Possible

**Advancing the State of the Art**

### 8-Color Printing—An Unprecedented Range of Color Tones

The 8-color printing process in the Hi-Fi JET PRO uses dual print heads and variable droplet technology to reproduce a stunningly broad and realistic spectrum of color—brilliant apple reds, the near-infinite greens of a forest, rich natural skin tones, or a metallic sheen so luxuriously smooth that you want to reach out and touch it. By adding orange (Or), green (Gr), light cyan (Lc) and light magenta (Lm) simultaneously to conventional CMYK colors, the Hi-Fi JET PRO delivers a new standard of photo realism, transcending the limits of conventional 4- and even 6-color printing to satisfy even the most-demanding artist or photographer.

### Pantone Calibrated for PANTONE® Hexachrome®

The Roland Hi-Fi JET PRO uses the world’s first and only 1440 dpi wide-format inkjet printer capable of outputting PANTONE® Hexachrome®. PANTONE® Hexachrome® is PANTONE, Inc.’s patented 6-color printing process which simulates over 97% of solid PANTONE PMS Colors—an enormous benefit to printers and designers for proofing and accurate color matching.

### Variable Droplet Control: Unbelievably Smooth and Natural Reproduction

The unique variable droplet technology of Hi-Fi JET PRO produces ultra-precise ink droplets of varying sizes to deliver beautifully smooth and dot-free tones. This state-of-the-art technology is truly breathtaking, either in 8-color or conventional CMYK output.

### 1440 x 1440 dpi Resolution: Astonishing Photo Realistic Imagery

This level of photographic quality reproduces even the downy soft hairs on human skin. The crisp detail and fine-line fidelity of the Hi-Fi JET PRO’s 1440 x 1440 dpi resolution makes it ideal for enlargements of fine art, photography, or mural-size graphics, with results rivaling the convincing realism of photographic prints.

### Piezo Print Heads Produce Precise Droplets under Stable Control

The shape of the ink dots has a major effect on the overall quality of inkjet printing. This is one of the reasons why the Hi-Fi JET PRO uses Piezo inkjet heads—since they consistently produce a perfectly round ink droplet. You can clearly see the difference in the razor-sharp edges of text and photo images, and in the naturally smooth gradations. The minute size of the Piezo ink droplets also enables a more economical use of ink—a cost savings you’re sure to appreciate over time.

### Two Types of Inks to Match Your Needs

For both resistant gallery quality output or for more economical, vivid-color output, the Hi-Fi JET PRO offers you two kinds of inks—pigmented and dye-based. Hi-Fi JET pigmented inks ensure that your posters and signs maintain their beauty longer, even under outdoor conditions; and feature an enhanced color gamut reaching that of dye-based inks. You get the best of both worlds: rich, vivid colors plus excellent resistance to fading.

### Wider Heads Create Improved Print Speed

By speed-tuning the print heads, we have been able to nearly double the maximum speed at which the heads can operate. At the same time, the addition of extremely rigid, high-performance rails and other parts that support head movement ensure that these higher speeds have no adverse effect on image quality. Pantone-certified Roland engineering keeps ink tubes and cables from transmitting vibrations to the print heads, resulting in smoother, more-stable head movement. These features ensure that the Hi-Fi JET PRO maintains higher levels of both output speed and printing fidelity.

### Dual Functionality in a Single Printer

The four-color, dual-head configuration of the Hi-Fi JET PRO means that you can use pigmented CMYK inks for one head and dye-based CMYK inks for the other. As a result, you can be ready to respond immediately to your customers’ requests. This ability to deliver multiple printing functions from a single printer goes a great way toward saving substantial time and space, along with higher overall business efficiency.

### High-Speed Output with Double 4-Color Printing

The Hi-Fi JET PRO delivers major increases in output speeds across the board. Printing at 540 x 360 dpi with two sets of CMYK, the Hi-Fi JET PRO can print one square meter in only 5 minutes (127 sqft/h). Print quality is outstanding and, compared with most conventional wide-format printers, the difference in speed is dramatic.

### Output speed comparison

- **Variable NORMAL 540 x 1080**: 22 min/sqm (30 sqft/h)
- **Variable PHOTO 1440 x 1440**: 39 min/sqm (16 sqft/h)
- **NORMAL 720 x 720**: 9 min/sqm (42 sqft/h)
- **DRAFT 540 x 360**: 5 min/sqm (127 sqft/h)
- **Variable SUPER 720 x 1440**: 32 min/sqm (20 sqft/h)
- **SUPER 1080 x 1080**: 38 min/sqm (17 sqft/h)

*Pigmented ink and Dye-based ink can be used exclusively.

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### Print Quality and Speed You Never Imagined Possible
RIP-ing, Networking, and Media: Comprehensive Professional Performance

**RCC: High-Speed, High-Performance RIP for Roland Technology**
To extend printing capabilities even further, the Hi-Fi JET PRO comes with Roland ColorChoice® (RCC) 4, the only multi-platform RIP designed for variable droplet control and for both 4-color printing or double 4-color printing, while offering functions that lend powerful support to all aspects of Hi-Fi JET PRO output. Compatible with Windows® 95/98/Me and Windows NT®4.0/2000/XP and Mac® OS 8.1 to 9.x. (Mac OS X is not currently compatible.) RCC adapts smoothly and seamlessly into your existing workflow.

**Easy RIP-ing, Faster Print Output**
For faster workflow, RCC doesn’t need you wait for RIP operations to finish before it starts printing. Full RIP and Print capabilities allow parallel operation, for speedier color and data checking.

**True Adobe PostScript® 3™ Compatibility**
Adobe® PostScript® 3™ ensures that the images you create in your graphic design applications will print with perfect fidelity—a feature with obvious benefits for both design and proofing tasks. In addition to PostScript applications, you can also directly output TIFF, JPEG, EPS, PDF, PS and PLT (PRF) files. Simply drag and drop the file into RCC for speedy output.

**Reliably Accurate Digital Proofing**
A wide range of ICC-compatible input and output profiles are built in to ensure consistently accurate digital proofing. You get optimal color matching for whichever Roland media and Print Mode you choose.

**Versatile Output Options with RCC-Based Enlargement and Reduction**
RCC offers a wide range of useful functions, including powerful RIP-level output support. Suppose you need to output an A4 tile at a larger size, or print out large format data at a reduced size for test purposes. There’s no need to alter the data file within the graphic application; simply adjust the size as you like, even mirror or rotate images, with RCC.

**Digital Proofing and Other Media**
Media availability largely determines the usefulness of any printer. With this in mind, the Hi-Fi JET PRO accepts a wide range of Roland-certified media. The lineup includes WFT film for photographic prints, as well as vinyl, cloth, paper (including Fine Art papers), and film positives for silkscreen printers.

**Screen Printing Positives**
As with all Roland inkjet devices, the Hi-Fi JET PRO offers the ability to print film positives for screen printing, using either Adobe Photoshop® 5.5 or Adobe Illustrator® 8.0 with Acrobat Distiller 4.0. No additional equipment or expense is required. You can choose from 14 different half-tone dot shapes with screen frequency and angle control. Roland provides clear film (CPF-66-42) for use with our standard pigmented black ink (FPG-BK).

**Adding a Host of New Supporting Features**
- Bucklite LCD for easy panel operation
- Adjustable head height for a wide variety of media from artists’ canvas to film
- Media cover guards against dust
- Media damper maintains smooth media feeding
- Easy-to-replace, clean-handling ink cartridges
- Automatic sheet cutter for after printing

**Select from Three Models to Match Your Application Needs**

**Offering You a Wider Choice of Print Media**

**Greater RIP Capabilities for More Power**

**Post-Process Precise Color Adjustment**
Sometimes you want to make slight changes to the color balance and tone after an initial test print. In these situations, you can fine-tune the tone curve of all 8 colors individually to achieve the perfect color match. You can easily achieve even greater precision by adjusting color via this method than by adjusting the original data. Plan the extra freedom of adjustment lets you reproduce colors that are simply not possible on other inkjet printers.

**Color Management of Photo Images: Independent from Lettering and Line Drawings**
RCC lets you handle color adjustments for image and spot color data separately, avoiding problems with having color photos affect lettering or line drawings, and vice versa. Photos stay natural, while illustrations and lettering print in the exact colors you designate.

**Supporting High-Speed Networks**

**100 BASE-TX/10 BASE-T Networking**
Equipped with a standard 100 BASE-TX/10 BASE-T interface, the Hi-Fi JET PRO connects seamlessly to office networks for high-speed工作组 operation with a data transmission rate of 11 Mbit/sec. This makes it easy to configure a highly efficient printing environment with efficient sharing between multiple PCs and/or Macs.

**Easy Access to Ethernet Interface Settings from Your Web Browser**
Simply access the Hi-Fi JET PRO interface from a web browser and you can quickly view the settings or change them to your desired settings on your display.

**Full Support for ECP Parallel Interface**
The Hi-Fi JET PRO comes with an ECP parallel interface. This enables data transfer at 750 KB/sec. twice the transfer speed of earlier Hi-Fi JETs.

**Effective Sharing Between Multiple PCs and/or Macs**
Workgroup operation with a data transmission rate of 1.1 Mb/sec. This is achieved by efficient sharing between multiple PCs and/or Macs.

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**Covers a Wide Range of Output**
The Hi-Fi JET PRO is available in three sizes: the FJ-400 with a maximum print width of 1615 mm (63-9/16 inches), the FJ-500 with a maximum of 1361 mm (53-9/16 inches) and the FJ-400 with a maximum of 1107 mm (43-9/16 inches). All models will print on media as small as 210 mm (8-5/16 inches), enabling a highly flexible range of output applications.
### Specifications

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<tr>
<th>滚筒式打印机</th>
<th>FJ-600</th>
<th>FJ-500</th>
<th>FJ-400</th>
</tr>
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<tbody>
<tr>
<td>印刷方法</td>
<td>Piezo ink-jet method</td>
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<tr>
<td>打印宽度</td>
<td>210 to 1615 mm (8-5/16 to 63-3/4 in.)</td>
<td>210 to 1361 mm (8-5/16 to 53-3/16 in.)</td>
<td>210 to 1107 mm (8-5/16 to 43-3/16 in.)</td>
</tr>
<tr>
<td>可接受的材料宽度</td>
<td>210 to 1625 mm (8-5/16 to 64 in.)</td>
<td>210 to 1371 mm (8-5/16 to 54 in.)</td>
<td>210 to 1117 mm (8-5/16 to 44 in.)</td>
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<tr>
<td>可切割材料的宽度</td>
<td>210 to 1625 mm (8-5/16 to 64 in.)</td>
<td>210 to 1371 mm (8-5/16 to 54 in.)</td>
<td>210 to 1117 mm (8-5/16 to 44 in.)</td>
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</tbody>
</table>
|可使用的条件材料 | 最大材料厚度：1.0 mm (0.039 in.) （当喷嘴头被抬起）

最大直径适用材料：160 mm (7-1/16 in.)

芯内径适用材料：50.8 mm (2 in.) 或 76.2 mm (3 in.)

最大重量适用材料：20 kg (44.1 lb.) |
| 墨水类型 | 染料型墨水

用于与Hi-Fi JET一起使用的墨水 |
| | 持久性型墨水

用于与Hi-Fi JET一起使用的墨水 |
| | 适用颜色 | 黑色、青色、品红色、黄色、橙色、绿色、浅绿色和浅红色 |
| | 适用数量 | 220 cc ± 10% |
| | 环境 | 温度：15到32°C (59到89.6°F)

湿度：35到80%（非凝结） |
| | 功耗 | 打印模式：最大：1.3A/100V到240V 51% 50/60 Hz

待机模式：最大：0.5A/100V到240V 51% 50/60 Hz |
| | 噪音水平 | 打印模式：40dB (A) 或更少（据ISO7779）

待机模式：40dB (A) 或更少（据ISO7779） |
| | 尺寸 (带底座) | 2500 mm [W] x 740 mm [D] x 1241 mm [H]

(98-7/16 in. [W] x 29-3/16 in. [D] x 48-7/8 in. [H]) |
| | 重量 (带底座) | 117 kg (257.9 lb.)

2246 mm [W] x 740 mm [D] x 1241 mm [H]

(78-7/16 in. [W] x 29-3/16 in. [D] x 48-7/8 in. [H]) |
| | 包装内容 | 含FJ-600/500/400主单元：1，1台支架；1台刻刀；2，媒体夹子：1，媒体托架：1，支架：2（用于放置媒体托架），

3，喷嘴头：1，墨水类型：1，用户手册：1，和卸包，组装和安装指南：1 |

### Options

**Pigmented ink**

- FPG-MG：Magenta, 220 ml
- FPG-YE：Yellow, 220 ml
- FPG-CY：Cyan, 220 ml
- FPG-BK：Black, 220 ml
- FPG-LC：Light cyan, 220 ml
- FPG-LM：Light magenta, 220 ml
- FPG-OR：Orange, 220 ml
- FPG-GR：Green, 220 ml

**Dye-based ink**

- FDY-MG：Magenta, 220 ml
- FDY-YE：Yellow, 220 ml
- FDY-CY：Cyan, 220 ml
- FDY-BK：Black, 220 ml

**Cleaning cartridge**

- CJD：Cleaning cartridge for changing ink types

**USB to Parallel adaptor for Macintosh**

- RCC-UP3A：3m (Power Mac with USB port, 8 pin)

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**Media Take-up Roller**

The take-up roller automatically re-rolls the printed media for unattended and continuous printing. The media take-up option can be added at any time.

**Take-up Roller**

- **TU-650**
  - For FJ-600
  - For FJ-500 and FJ-400

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Roland reserves the right to make changes in specifications, materials or accessories without notice. Your actual output may vary. For optimum output quality, periodic maintenance to critical components may be required. Please contact your Roland dealer for details. No guarantee or warranty is implied other than expressly stated. Roland shall not be liable for any incidental or consequential damages, whether foreseeable or not, caused by defects in such products.

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**Authorized Dealer:**

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