

**RICOH**  
imagine. change.

Continuous Feed Inkjet Printer

# RICOH Pro™ VC70000



Take command of  
your future with  
the inkjet solution  
the industry's  
been waiting for

Removing the previous barriers to print quality, productivity and cost-effectiveness, the award-winning RICOH Pro VC70000 continuous feed inkjet printer elevates your business today and provides a scalable, field-upgradable platform to protect your investment for years to come. Finally, a viable alternative to offset printing has arrived, delivering all the benefits of digital printing and powerful data-driven communications without sacrificing the affordable media choices, image integrity and speed of offset.

**Speed, quality and reliability.  
The Ricoh Pro VC70000 provides  
powerful advantages for your  
business, including:**

- **New extended gamut inks** make it possible to print onto a variety of different types of stocks, including offset coated and uncoated papers, without pre- or post-coating.
- **Media support** for offset coated, IJ coated, IJ treated and uncoated papers from 40 to 250 gsm.
- **Ricoh's latest generation** stainless steel printheads for years of dependable use.
- **Dynamic drop technology** at the image level to render fine details, consistent halftones and optimised ink usage on high coverage areas.
- **Production volumes** up to 40 million impressions per month.
- **Repeatable print lengths** of up to 1.37m.
- **Output speeds** up to 150mpm.
- **Advanced drying and cockling correction** technologies, which are required when printing on lightweight papers.
- **Ricoh TotalFlow®** Print Server R600A Digital Front End (DFE) for powerful job and data processing with support for multiple data streams, access to colour management and additional job tools.
- **Unparalleled technical and field support** from the industry's largest, dedicated production service organisation.



# Redefine what's possible

Speed, media flexibility and quality to migrate from offset to digital intelligently and affordably

## Increase your bottom line

Produce high value, personalised and data-driven applications – from sales collateral and brochures to direct mail, catalogues, colour manuals, custom publications and more – at speeds up to 150 metres per minute. Print on offset coated paper with no priming or pre-treatment required to immediately achieve savings in media costs. Deliver true image quality up to 1200 x 1200 dpi with the latest generation, industry-leading Ricoh printheads to meet and exceed customer expectations on every job.



## Get polished results with advanced drying technologies

Innovative new drying technologies set and cure inks inline for outstanding results on offset coated papers and a wider variety of media while allowing for high speed print production. For jobs requiring very light stocks, anti-cockling technology prevents media wrinkling in your output so you can take on an even broader mix of work where heavy ink coverage is required.



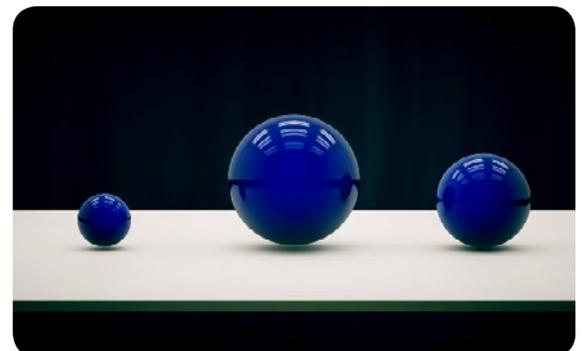
## Reliably produce the colours you need with Ricoh's exclusive extended gamut inks

Further removing the barriers to transitioning jobs from offset are Ricoh's new, proprietary, extended gamut inks. With a higher pigment to water ratio, these inks deliver superior adhesion and allow you to confidently produce more colours consistently, impression after impression and job after job.



## Achieve finer detail and reduced ink usage with image-level variable drop sizes

While other inkjet systems can apply differing drop sizes at a page or file level, the Ricoh Pro VC70000 gives you the power to vary them down to the pixel level. That means crisp, sharp text, improved grayscales and halftones, and efficient ink usage on high coverage areas.



# Innovative technology to deliver years of competitive advantage

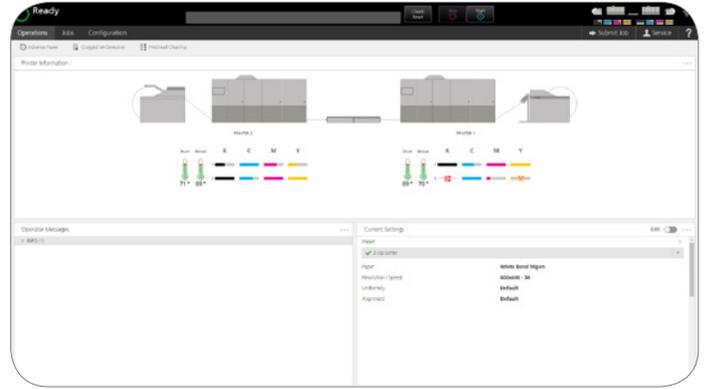
- 1 Operator Attention Light:** Alerts operators about warnings, errors or when intervention is required while printing.
- 2 Print Unit:** Houses the cyan, magenta, yellow and black printhead arrays, paper steering mechanisms, bar code and finishing mark sensors.
- 3 Printhead Array:** The array for each colour consists of 10 Ricoh 1200 dpi stainless steel piezo drop on demand printhead modules that are capable of dynamically jetting variable drop sizes. Each Ricoh Pro VC70000 printhead housing can be pulled out to provide easy access for operator cleaning and maintenance. The printheads remain capped when the printer is not printing, and automatically are uncapped prior to printing. An operator can elect to park colour printheads when printing monochrome for more cost-effective operation.
- 4 Ink Supply Station:** The Ink Supply Station houses two 10-litre cartridges for each colour of ink. When a cartridge is near empty, the operator is notified that the cartridge needs to be replaced, and the operator can do so on the fly so the printer can continue to print.
- 5 Graphical User Interface (GUI):** Provides access to the Ricoh TotalFlow® Print Server R600A DFE. The HTML 5 GUI layout is configurable to provide easy access to job set-up/ submission, job management, administration and maintenance control of the system.
- 6 Ricoh TotalFlow® R600A Digital Front End:** With powerful data processing and intuitive operation, operators can control job management, system configuration and maintenance tasks.
- 7 Turn Bar Unit for I or L configurations:** The turn bar for I (inline) and L (left-angle) configurations turns the paper over in preparation for the second engine to print on the back side of the paper web.
- 8 Dryer Unit:** The Ricoh Pro VC70000 Dryer Unit uses a new, radiant heat drum dryer in combination with heat rollers and air movement to remove the water content of the inks, curing only the colourant on the media and preparing it for printing on the second side or inline finishing. This new dryer technology supports printing on offset coated papers at up to 150mpm.



## User-friendly design and operation

The Ricoh Pro VC70000 doesn't just enable better results, it makes it easier to help your operators achieve them. In fact, the interface can be finetuned and customised to suit operators with a range of experience and technical expertise. The system's GUI provides intuitive control of the Ricoh TotalFlow® Print Server R600A DFE. Access tools, such as job set-up and management tools, plus administrative and maintenance menus quickly. An operator attention light clearly lets staff know, from anywhere on your shop floor, when the system needs intervention.

- 9 Image Inspection Unit:** The new Image Inspection Unit Lite is embedded into the Pro VC70000 Exit Unit and can reduce makeready times by up to 70%. Finetune media handling and tensioning controls to help ensure every page is produced with uncompromising consistency. For quality assurance, a new high resolution strip camera system is used during the makeready process to check for clogging, alignment and uniformity of printheads.
- 10 Support for a variety of finishing:** Choose from multiple Ricoh partners to provide a variety of finishing solutions, such as unwind, rewind, cut, fold, dynamic perforation, vision systems and inline processing, plus a solution for books.



The RICOH TotalFlow® Print Server R600A Digital Front End is scalable to support a range of complex jobs.



**Ricoh Pro VC70000**

# Ricoh's powerful Digital Front End delivers complete control

## Set the interface to match your needs

Tailor the user interface to your print preferences and make it even faster to access critical project information. Align print jobs by status, owner, submission time or other criteria. Add "Pods" to check supply status or to make on the fly configurations. Toggle between them with one touch control. Add shortcuts to frequently used information and tasks to help multiple operators stay on the same page.



## Automate repetitive tasks

Use the Ricoh TotalFlow® Print Server R600A DFE to schedule and monitor jobs, check system status and transition to the next print stage seamlessly while reducing the critical touchpoints where errors can enter the process. Complete a wider range of projects, including on demand orders, with higher quality and fewer mistakes to reduce costs and automate repetitive tasks to keep production moving faster.



## Perform tasks faster and more accurately

With the Ricoh TotalFlow® Print Server R600A DFE, tackle even the most complex jobs, including variable addressing and variable images. Check status and errors with a single glance, and make changes or schedule maintenance in only moments. It accepts a wide range of native data streams – including PS, PDF, PDF/VT, AFP/IPDS and JDF – without requiring transforms which can affect file fidelity, to help you complete jobs with incredible speed, accuracy and convenience.



## Print and monitor jobs from anywhere

For ultimate convenience, the Ricoh TotalFlow® Print Server R600A DFE makes it easy to print, monitor and manage your workflows from almost any location using the intuitive HTML job management console. Whether you're on the shop floor, at your desk or working remotely, you can access critical job information from a web browser. Check status, manage configurations, plan maintenance remotely and transition to the next job with fewer delays.



# Utilise Ricoh solutions to customise and streamline your entire workflow

## Group short run work for improved efficiency and faster job turnarounds

TotalFlow® BatchBuilder™ is vendor-agnostic software that is ideal for shops that use XML, JDF, and/or PDF to organise incoming orders from MIS, web to print portals, homegrown platforms, and pre-press systems. Batch jobs based on your criteria and use roll management capabilities for digital inkjet devices. The solution can also act as the production management queue for a web to print system.



## Simplify complex workflows and reporting needs

Ricoh ProcessDirector™ provides a robust, scalable software platform that streamlines and makes managing your entire production workflow faster – with fewer touchpoints for human error. Powerful data management tools connect to other solutions, including web to print and composition, making it easy to edit and update jobs on the fly, track individual job components at a page level, and create the reporting framework required for regulated communications.



## Ricoh delivers more ways to help make significant ROI a reality

Our priority is ensuring that we match the right equipment to your workflows and provide the application support you're counting on. To help you visualise the economics of the Pro VC70000, your Ricoh representative will guide you through ROI estimates based on current and projected workflows. We take a deliberate, assessment-minded approach to ensure that this system is truly the right fit for your operations before you allocate budget.



## A partnership that extends beyond the shop floor

We've built a production organisation designed to deliver everything your business needs to be more competitive, more efficient and more profitable. That includes dedicated, 24/7 nationwide technical support to keep you up and running. From implementation services to ongoing colour management, finishing, operator training, business development, postal optimisation and beyond, our portfolio is firmly centred around helping you maximise your technology investment.



# Ricoh Pro VC70000

## System specifications

### Imaging Technology

Piezo Drop on Demand  
Dynamic Variable Drop Size – @ 2 bits/drop  
Stochastic Screening  
Ricoh Printheads – 10 printheads per colour

### Engine Technology

Colour Inkjet ..... 4 colours CMYK  
Paper Path ..... Tight Web  
Web Width ..... 20.5" (520.7 mm)  
Printable Area – 20" (508 mm)  
(non-printed area 2 mm from  
paper edges)\*  
Paper Length ..... 4" to 54" (101.6 to 1371.6 mm)  
Machine Layout – Duplex 'L' or Inline Configuration

### Engine Components

Base Unit\*  
Dimensions (WxDxH) ... 168.9" (4290.5 mm) x 97.6"  
(2478 mm) x 78.74" (2000 mm)  
Weight ..... 9321.1 lb (4228 kg)

### Operating Environment

Temperature ..... 64.4–75.2° F (18–24° C)  
(recommended)  
Humidity (recommended) 40 – 60%

### Productivity

Resolution/Print speed ... 600 x 600 dpi : 492 feet/min\*, or  
150 metres/min  
600 x 600 dpi : 394 feet/min, or  
120 metres/min  
1200 x 600 dpi: 246 feet/min and 328  
feet/min, or 75 and 100 metres/min  
1200 x 1200 dpi: 164 feet/min, or  
50 metres/min

\*max paper weight printing at 492 feet/min is 157gsm

### Media Support

Media Types ..... Plain, General Offset Coated\* and  
Uncoated, II coated, II treated,  
Ground-Wood, Recycled  
Paper Weight ..... 40 gsm to 250 gsm

### Supplies

Pro Ink Cartridge Black VC60000 Type D  
Pro Ink Cartridge Cyan VC60000 Type D  
Pro Ink Cartridge Magenta VC60000 Type D  
Pro Ink Cartridge Yellow VC60000 Type D

### Finishing

Specification ..... 3rd party finishing devices I/F  
specification: Type 1A/+  
Finishing Solutions ..... Multiple partners provide a variety of  
unwind, rewind, cut, fold, dynamic  
perforation, vision systems and  
inline processing, including a solution  
for books

### TotalFlow R600A Digital Front End

#### Architecture

Processor Architecture ... Intel Xeon x64  
OS ..... Linux

#### Physical Characteristics

Dimensions (WxDxH) ... 39.5" (1003 mm) x 24" (609 mm) x  
49" (1245 mm)  
Weight ..... 716.5 lb (325 kg)

#### Data Stream Support

PostScript  
PDF (APPE)  
PDF/VT  
IPDS

#### Job Submission

FTP  
SFTP  
IPP  
LPR  
Raw Port  
Operator Console  
Virtual Printer/Hot Folder Support

### Graphical User Interface

Display on each print engine  
Login by Role: Admin, Operator, Maintenance or Customisable  
Highly customisable user interface layout by role  
Graphical Printer & Supplies Status  
Operator Messages  
Paper Catalogue/Paper Set-up

### Job Management

#### Graphical Job Ticketing/Job Preview – Native JDF

Banner  
Operator Comments  
Sides Printed  
Copies  
Rotate, Reduce/Enlarge, Image Alignment  
Special Marks

#### Job Imposition

#### Job Queue Management

Submit  
Suspend  
Hold  
Process Next  
Delete Job  
View Jobs  
Job Status  
Active  
Inactive  
Stored  
All Jobs  
Job History

### Colour Management

ICC Profile Support  
Enhanced Colour Management by Side and Object Type  
Device Link Support  
Spot colour dictionaries (Pantone, Toyo, DIC, and HKS)  
CMR Support (AFP/IPDS)

### Software Support

Ricoh ProcessDirector for AIX, Linux or Windows  
Version 3.7 or later releases  
TotalFlow BatchBuilder for Windows  
Version 2.3  
InfoPrint manager for AIX, Linux, Windows  
Version 4.8 or later releases  
Print Services Facility for AIX, Linux or Windows  
Version 3.1 or later releases

Note: For Linux SLES, or, Red Hat

\*For maximum performance and yield we recommend using genuine Ricoh parts and supplies.  
Specifications are subject to change without notice.

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#### About Ricoh

Ricoh is a global digital technology specialist with 30 years of developing, innovating and manufacturing office image equipment,  
production print solutions, document management systems and IT services. It is known for the quality of its technology, the  
exceptional standard of its customer service and sustainable initiatives that help businesses be more productive and profitable.

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