Inkjet Digital Web Press

RICOH Pro VC80000

RICOH
imagine. change.

State-of-the-art productivity through advanced automation.

Pro VC80000

150 mpm full-color

The expertise of Ricoh.

Since 1973, our relentless pursuits in innovation have made us an invaluable partner for many businesses across the commercial printing industry. It is this cumulative experience, paired with an unparalleled network of solution architects, software developers, master engineers, administrators, business consultants and project managers, that gives us the ability to assess, recommend and implement the most effective processes, workflow and support for your business.

For the commercial print market, Ricoh continues to invest heavily in building and partnering with industry suppliers to create an end-to-end ecosystem. With future-forward products and expert professional services, we help you get the most out of your inkjet investment.

Sophistication. Speed. Simplicity.

The RICOH Pro VC80000 sets a new standard for inkjet quality, productivity and media flexibility.

With shorter runs, tighter deadlines, a changing workforce and access to more data than ever before, Ricoh understands that success doesn't mean just keeping pace with the market — it means taking the lead. Built upon a legacy of inkjet excellence, the Pro VC80000 is our most impressive system yet. Developed to help our customers accelerate their success and secure a more productive and profitable future, the Pro VC80000 harnesses the power of AI. Coupled with a sleek product design and exciting new features, this groundbreaking press is here to modernize your operations. Add in personalized, data-driven capabilities and you have a press that will propel your print business to the next level of success.

Transform how your print business operates, without compromise.

- Internal sensors and advanced machine learning increase quality and enable color consistency without operator intervention.
- Ricoh's next generation printheads with stainless steel construction and liquid cooling ensure lasting durability and enhanced color stability.
- 1200 × 1200 dpi resolution at blazing output speeds and our new drying technology means you can offer the highest quality prints at more affordable price points.
- Automated jet-out detection triggers real-time compensation from adjacent nozzles, ensuring consistent quality control.
- AI-driven automation reduces labor dependency and boosts shift productivity.
- A full 584.2mm edge to edge printable area unites with the possibilities of digital, giving your business the capabilities to sell value-added print that delivers greater rates of return.
- Media support for a wide range of stocks, including offset coated up to 300 gsm (12 pt), lets you transition from offset to inkjet with confidence.

We're breaking new ground, so you can too.

The RICOH Pro VC80000 inkjet digital web press is a true offset alternative that can take your business — and clients — further. Complement your fleet with the most technologically advanced inkjet system in our portfolio. This wonder of innovation continues Ricoh's successful legacy and is built on an upgradable platform that can grow with you. With a reimagined product design, 584.2 mm paper width and built-in RICOH Smart Start Printing capabilities, it streamlines your workflow. AI-driven predictive maintenance eliminates guesswork and helps ensure flawless, market-ready prints. Unmatched speed, quality and media flexibility let you maximize profits on short-run projects.

Expand your business with the highest level of automation.

Get more work done with patented end-to-end technologies. The RICOH Pro Scanner, with a revolutionary RICOH Smart Start Printing, allows you to preset the system's start-up time. This triggers unattended AI-controlled make-ready, which means the press is ready to go when operators arrive for start of shift. Real-time color monitoring, guided by an inline spectrophotometer, minimizes manual interventions and human error. Adjustments for color-to-color and front-to-back registration are performed automatically, making complex, color-critical work effortless for any level of operator.

Realize greater efficiency at every stage.

Infused with built-in intelligence and closed-loop monitoring, the Pro VC80000 achieves 1200 × 600 dpi quality at 150 meter per minute — a 50% production boost over previous technologies. Automated communication with inline finishing and other peripheral equipment facilitates continuous operation, while AI and machine learning proactively identify maintenance issues to avoid slowdowns. Dynamic printhead movement coupled with an auto-splicing solution allows new substrates to flow seamlessly. Quick paper setup enables media not yet stored in the library to perform optimally at the touch of a button.

Technological advancements redefine inkjet quality.

The RICOH Pro VC80000, a marvel of innovation and engineering, boost high color gamut aqueous inks, liquid-cooled printheads and drying technology. 1200 × 1200 dpi resolution reproduces vibrant color and lifelike skin tones. Equipped with a sensor to detect substrate stretching or shrinking, the system makes micro adjustments for precise ink placement. Automated jet-out detection proactively triggers adjacent nozzles in real time, ensuring consistent and even color across every print run.

Media flexibility that expands your horizons.

This groundbreaking solution handles a wide range of stocks, including offset coated media up to 300 gsm (12 pt). Featuring a 584.2 mm - wide printable area which allows you to leverage current composition software and finishing equipment. With the optional undercoater, you can expand creative possibilities and meet virtually any demand across any application. Transition beyond offset to offer your clients higher value and more impactful communications while also unlocking greater returns for your business.

The era of “driverless” automated technology in production print is here.

Engineered for commercial printers who are ready to seize the opportunities that lie ahead.

1. **Unwinder***
   Fully integrated unwinder allows support for roll widths up to 584.2 mm.

2. **Undercoater*°**
   Selectively engaged undercoating achieves an even higher level of print quality, providing richer colors and smoother skin tones.

3. **Graphical user interface/operator control panel**
   An all-in-one dashboard lets you supervise print jobs, ink levels, maintenance schedules and more.

4. **Inline turnbar**
   The system is currently offered in an inline configuration.

5. **Rewinder***
   Fully integrated rewinder supports roll widths up to 584.2 mm.

6. **Digital front end°**
   Features the latest Dell processing power and upgraded memory. Supports a wide range of data workflows including PDF, PDF-VT and AFP/IPDS.

7. **Drying technology**
   Patented drying technologies make exceptional quality possible on an array of stocks.

8. **Power supply°**
   Centralized distribution and control of most power requirements on the press.

9. **High-capacity ink delivery system°**
   200 kg high-capacity ink containers driving both engines (CMYK) and optional Undercoat Fluid (UC).

10. **Ventilation control°**
    Consolidated press ventilation with air boost options for easy facility integration.

***Optional**
°Not shown

11 Next generation printheads
Liquid-cooled, nozzle compensating printheads are temperature controlled to maintain print quality (density) over long production runs.

12 Print array
Consists of 11 printheads per color, enabling operators to print on substrate widths up to 584.2 mm with a full edge to edge printable area.

13 Engine chilling rollers
Each engine contains a set of chilling rollers, providing a constant substrate temperature to ensure control and consistency of the print quality.

14 RICOH Pro Scanner
Automates press make-ready and proactively improves settings, uptime and print quality for optimal output.

15 Inline spectrophotometer
Corrects for printhead density autonomously and in real time, thus contributing to color stability throughout the entire production run.

16 Temperature control
Integrated chillers help to control substrate temperature, printhead temperature and the temperatures of the inline scanner and spectrophotometer.

"The level of automation that the Pro VC80000 achieves, combined with the ability to produce high-quality work 50% faster than our existing technology, will transform the way inkjet fits into Sattler Media Group's production planning."

Christian Haneke, Innovation and Solutions Manager, Sattler Media Group

RICOH Pro VC80000

SYSTEM SPECIFICATIONS

Imaging Technology

Printing Method	Piezo Drop on Demand inkjet technology
Printheads	Next generation liquid-cooled printheads 11 dual printheads per color 4 colors (CMYK)
Process	
Paper Path	Tight Web
Web Width	165.1 mm to 584.2 mm
Machine Layout	Duplex inline

Productivity

1200 × 600 dpi	150 meter per minute (4 colors) 93 meter per minute (4 colors)
1200 × 1200 dpi	

Media Support

Media Types	Offset coated, offset uncoated, inkjet treated
Media Weights	40 gsm to 250 gsm (standard) 40 gsm to 300 gsm (with the Heavy Paper Option)

Inspection and Automation

RICOH Pro Scanner	Standard (includes inline spectrophotometer and RICOH Smart Start Printing)
Premium PQ Option	Optional
Automation Suite	Optional

Options

Heavy Paper Option
Premium PQ Option
Automation Suite
Undercoater
RICOH Unwinder/Rewinder

Finishing

Multiple partners provide a variety of unwind, rewind, cut, fold, dynamic perforation, vision systems and inline processing, including a solution for books.

Dimensions and Weight

Base Unit

Dimensions (W×D×H)	3,500 × 2,300 × 2,550 mm
Weight	6,500 kg

Unwinder

Dimensions (W×D×H)	1,300 × 1,670 × 1,105 mm
Weight	810 kg

Rewinder

Dimensions (W×D×H)	1,300 × 1,677 × 1,105 mm
Weight	1,030 kg

Undercoater

Dimensions (W×D×H)	1,830 × 960 × 2,193 mm
Weight	650 kg

Operating Environment

Temperature: 18 – 24° C
Humidity: 40 – 60%

Supplies

RICOH Pro VC80000 Ink Container Black Type J
RICOH Pro VC80000 Ink Container Cyan Type J
RICOH Pro VC80000 Ink Container Magenta Type J
RICOH Pro VC80000 Ink Container Yellow Type J
RICOH Pro VC80000 Ink Container Undercoat Type J
Cleaning Fluid Type V1
Waste Fluid Bottle for Undercoat Type V1

RICOH TotalFlow® R900A Digital Front End

Architecture

Processor Architecture	Intel Xeon x64
OS	Linux

Physical Characteristics

Dimensions (W×D×H)	826 × 1,295 × 1,480 mm
Weight	295 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, Service or Customizable
Graphical Printer and Supplies Status
Operator Messages
Paper Catalog/Paper Setup

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

Color Management

ICC Profile Support
Enhanced Color Management by Side and Object Type
Device Link Support
Spot Color Dictionaries (Pantone, Toyo and DIC) CMR Support (AFP/IPDS)

Software Support

RICOH ProcessDirector™ for Linux or Windows
Version 3.12 or later releases
RICOH Production Analytics
RICOH Supervisor™
Print Services Facility for AIX, Linux or Windows
Version 3.1 or later releases
FusionPro®

RICOH
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