Compact colour inkjet printing system

RICOH Pro™ VC20000

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Small footprint – big productivity

Printers are always looking for better ways to produce short-run colour printing cost-effectively and that's where the new Ricoh Pro™ VC20000 comes in.

This versatile and simple to use system brings competitive colour production to the critical communications, publishing, pharmaceutical, transpromotional and direct mail markets.

The compact and easy to run system also offer a clear upgrade path for existing toner-based operations as well as replacing multiple sheetfed printers. This is particularly the case for those in the direct mail and transpromotional sectors who are looking to replace ageing equipment, add colour capabilities and improve operational efficiency and flexibility as well as take advantage of inkjet's lower running costs.

Key features

The new Ricoh Pro™ VC20000 is fast, cost-effective and productive. With a top resolution of 600dpi x 600dpi each produce more than 10 million A4 pages with an excellent print quality and on a wide range of papers – a real production deadline beater.

With a speed of 75m/min* and print widths of up to 558mm, the Ricoh Pro™ VC20000 really are built for the low, mid-range and even high volume production.

* Higher speeds are possible with a lower resolution

Reliable consistent print results

It is just so simple.

Compared with other digital printing technologies, piezo ink jet with aqueous pigmented ink is the most effective way to print. The precisely controlled droplets minimise the amount of fluid used reducing costs and preventing the paper stress that is often seen with alternative inkjet solutions.

As with all inkjet systems, there are fewer requirements for manual intervention compared to toner based technology and the result is enhanced reliability, greater machine availability and lower support costs.

Print quality

High quality pigmented inks offer vibrant colours and excellent water and light fastness. With our precise droplet control and a native resolution of 600dpi x 600dpi we providing excellent text, halftones and solids.

Small footprint

With an engine footprint of less than 5.5 square meters, the VC20000 delivers more print per square metre than any other press in its class – increasing production floor-space availability by at least 50% compared to twin engine devices. This gives you more production for your investment.

Current model

MODEL	TYPE	SPEED (MPM)	RESOLUTION
RICOH PRO VC20000	FULL DUPLEX	75	600 X 600

Applications

For high-volume users the Ricoh Pro™ VC20000 delivers exceptional quality for a wide range of applications.

Publishing

For the on-demand book and manuals sector, the VC20000's ability to operate with inline finishing makes it a highly productive tool that offers exceptional return on investment. And the print quality is excellent – great colour, sharp text and smooth halftones page after page.

Transactional and Direct Mail

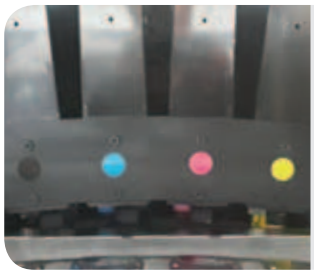
High speed data streaming gets the volume out. Colour inkjet printing of previously preprinted shells can transform productivity and the total cost per page of most transactional – and its ease of use make it an ideal replacement for ageing toner-based devices.

Flexible controller technology

Powerful and fully scalable controller technology to meet any application. The multi blade technology supports native AFP/IPDS as well as native PDF without conversion and utilising Adobe's APPE core. Advanced Colour Management functions ensure that the best colours are achieved on a wide range of papers.

Duplex printing in a single tower

Heads are protected when not printing



Piezo ink jet heads with aqueous pigmented ink

RICOH Pro™ VC20000

System specifications

Engine technology
- Piezo Drop on Demand ink jet

Printing speed
- 75m at optimum print quality
  Higher speeds available using Production Mode

Print resolution
- 600 x 600dpi native when printing at 75m

Printing
- Print width up to 558mm
- 2 up A4
- 3 up 170mm x 240mm

Data stream support
- PDF
- IPDS/AFP

Media support
- 45–250 gsm
- Uncoated, Inkjet treated

Engine dimensions
- Print engine 2.45m x 2.22m (l x w)
- 18.9L ink supply unit
- Power and ink cabinets plus web guide are seperate units

Weight
- Print engine 3000kg
- Power cabinet 500kg
- Ink supply unit 160kg
- Web treatment 250kg

Power
- Compressed air – single drop @ 8–10 bar, clean and dry
- Extraction – single drop from print section

Environment
- Optimal temperature range 21˚C +/- 1˚C (70˚F +/- 1˚F)
- Optimum humidity 40–60%
- Dust controlled environment preferred

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

Supplies
- Aqueous Pigment 18.9 litres
- Printhead flushing fluid

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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.