A1-Size

A1-Size Offset Presses

RYOBI 920 series

The superior cost-performance RYOBI 920 series A1-size offset presses easily handle 8-up A4-size printing. Featuring a maximum printing speed of 16,200 sheets per hour, plus enhancements such as varnish coating capability, added value, and higher productivity, the RYOBI 920 series meets today's diverse needs with versatility and economy.

- Specifications
- Impressive Cost Performance - Ideal for A1-size Printing
- Reliable Mechanisms for High-Speed Printing
- Superbly Reliable Ink and Water Control
- Advanced Automated Systems Enable Efficient Job Changeover
- Inline Varnish Coating Boosts Productivity and Adds Value
- Creating the Ideal Digital Workflow Enables Total Control of Printing Quality and Productivity
- Automatic Convertible Perfecting Device Boosts Productivity

Specifications

Model name	922	922P	924	924P	925	925P	926	926P	928P	9210P
Number of printing units	2		4		5		6		8	10
With Convertible Perfecting Device		○		○		○		○	○	○
Max. Paper size (W x L)	Straight printing: 920 x 640 mm (36.22" x 25.20") Perfecting: 920 x 635 mm (36.22" x 25")									
Min. Paper size (W x L)	Straight printing: 410 x 290 mm (16.14" x 11.42") Perfecting: 410 x 370 mm (16.14" x 14.57")									
Max. Printing Area (W x L)	900 x 615 mm (35.43" x 24.21")									
Paper Thickness[*1]	Straight printing: 0.04 - 0.6 mm (0.0016" - 0.024") Perfecting: 0.04 - 0.4 mm (0.0016" - 0.016")									
Printing Speed[*2]	Straight printing: 3,000-16,200 S.P.H. Perfecting: 3,000-13,000 S.P.H.									
Plate Size	910 x 665 mm (35.83" x 26.18") [positioning pin pitch: 780 mm (30.71")]									
Feeder Pile Capacity	800 mm (31.5")									
Delivery Pile Capacity	900 mm (35.43")									

Design and specifications are subject to change without notice.
*1 There are some limitations to print thick paper depending on paper types.
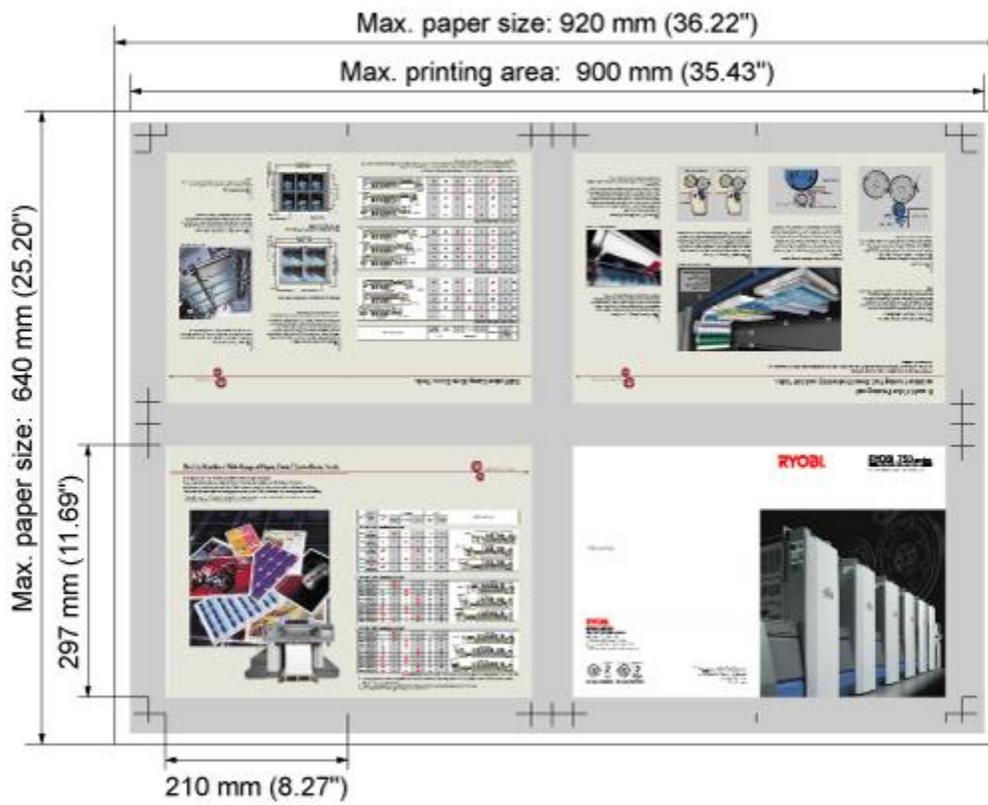*2 Local conditions, ink, stock, and printing plate types, and printing quality required will affect the printing speed.

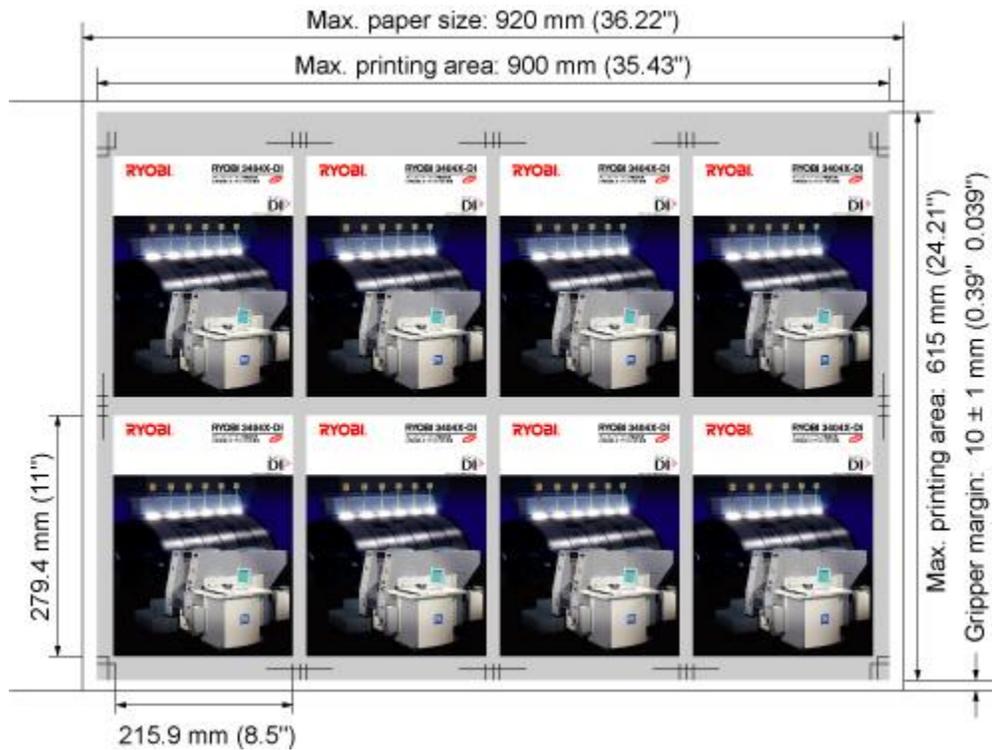# Impressive Cost Performance - Ideal for A1-size Printing

8-up Printing of A4 Size and Letter Size

Enabling printing of A1-size posters as well as 8-up printing of both A4 size and letter size.

For printing an international A4-size booklet

For 8-up printing of 8.5" x 11" (letter-size)

Max. paper size: 920 mm (36.22")
Max. printing area: 900 mm (35.43")
Max. printing area: 615 mm (24.21")
Gripper margin: 10 ± 1 mm (0.39" 0.039")
279.4 mm (11")
215.9 mm (8.5")

Compatibility with a wide range of paper, from thin to heavy stock

The RYOBI 920 series presses can handle paper thickness ranging from 0.04 mm (0.0016") onion skin to heavy 0.6 mm (0.024") card stock.
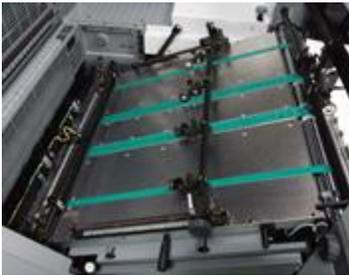
Lower Material Costs, Lower Power Consumption and Less Installation Space than a B1-size Press

Printing plate costs and power consumption are markedly lower than for a B1-size press, and the compact space-saving design allows efficient space utilization.

Footprint of a B1-size press

Reliable Mechanisms for High-Speed Printing

Suction Tape Feeder Board

The suction tape feeder board simplifies the setting of the brush and runner wheels and shortens the time required for changing the paper sizes. The suction belt holds the paper securely and feeds it smoothly to the front lay.

Double-Diameter Cylinder Printing Mechanism

The printing unit consists of a double-diameter impression cylinder and a double-diameter transfer drum. These cylinders have a large curvature ratio and transport paper with minimum flapping, providing stable paper transport even when printing on heavy stock.
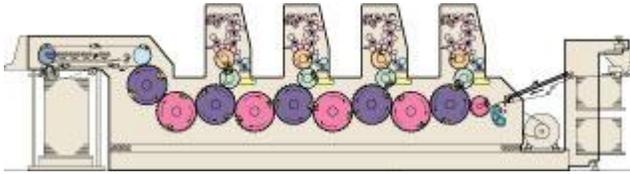
Superbly Reliable Ink and Water Control

Printing Density Control System RYOBI PDS-E SpectroJet/ RYOBI PDS-E SpectroDrive (option)

The RYOBI PDS-E SpectroJet, PDS-E SpectroDrive Printing Density Control System measures the color bar of the printed sheet using a spectrophotometer Values needed to correct color densities to match those of the OK sheet are calculated and provided as feedback to the RYOBI PCS-G, which appropriate adjustments in the ink fountain keys. Quality control that previously relied on human experience and intuition is now done using precise numerical values, contributing to consistent printing.

 RYOBI PDS-E SpectroDrive

 RYOBI PDS-E SpectroJet

RYOBI Program Inking

- RYOBI Program Inking automatically supplies ink to ink rollers to match the image from the early start of printing.
- After the set number of prints are finished, the ink on the rollers is automatically restored to an even state.

Advanced Automated Systems Enable Efficient Job Changeover

RYOBI Semiautomatic Plate Changer Semi-RPC

The RYOBI Semi-RPC allows plates to be changed quickly and accurately. The operator merely sets the plate on the positioning pins and presses the button. The Semi-RPC does not need the leading edge or tail edge of the plate to be bent.

RYOBI Fully Automatic Plate Changer Full-RPC (option)

The RYOBI Full-RPC, both plate mounting and plate removal are automatically performed on all printing units in sequence with single button operation, freeing the operator from all plate changing work. The Full-RPC takes only about 4 minutes and 30 seconds to change the plates on an 8-color press, and eliminates human error for greater plate changing accuracy.

Fully Automatic Simultaneous Plate Changer (option)

The "Full-RPC" RYOBI's conventional fully automatic plate changer ejects the used plates and then inserts the new plates one by one sequentially. Compared to this, the new "Smart-RPC" switches the phase of all plate cylinders to the same position, and then changes the plates simultaneously on all printing units. Thanks to this new system, plate changing can now be performed approx. 2 minutes even though it takes approx. 5 minutes using the conventional Full-RPC for the 928P (convertible 8-color perfector).

Automatic Cleaning Devices

Automatic blanket cleaning device (option), Automatic ink roller cleaning device (option)

Automatic Preset System for Convenient Job Changeover

The RYOBI 920 series allows the operator to enter preset values for paper size and thickness using the touch-panel display of the RYOBI PCS-G. The positions of the feeder and delivery section guides and pull side guide can be preset[*].

*The pull side guide preset system comes as standard equipment. Paper size preset and impression pressure preset systems are available as options.

RYOBI-matic-D Continuous Dampening System with Hickey Removing Function (option)

The RYOBI-matic-D substantially reduces hickeys on plates by adopting a drive mechanism for the water form roller that creates a rotational speed difference between the water form roller and plate cylinder.

Inline Varnish Coating Boosts Productivity and Adds Value

Inline Coating System

An aqueous or UV varnish coating can be processed inline using a retractable coating unit. When the varnish coating system is not being used, the entire coating cylinder and anilox roller can be easily slid upward at the touch of a button to prevent marking.

Creating the Ideal Digital Workflow Enables Total Control of Printing Quality and Productivity

Management System for Printing Presses [RYOBI Print Job Manager] (option)

The RYOBI Print Job Manager connects RYOBI printing presses in a network to perform centralized production schedule management by optimally assigning job data to each press. It also gathers real time information on operating status and automatically generates productivity assessment data for each press. The RYOBI Print Job Manager is a powerful support tool for printing companies who want to boost productivity.

MIS Connection Software (for CIP4-JDF) (option)

MIS connection software for CIP4-JDF enables real-time exchange using the CIP4-JDF data format for sharing job direction data and production data between the MIS and printing control system. RYOBI MIS connection software and CIP4-JDF-compatible digital workflow streamline printing company operations by improving productivity and integrating the workflow from sales to production and management.

Image Area Calculating Software [Ink Volume Setter/Ink Volume Setter-CIP4 (PPF)] (option)

RYOBI Ink Volume Setter uses PostScript data created on Macintosh computers to calculate the image area ratio for each ink fountain key on a RYOBI printing press, while RYOBI Ink Volume Setter-CIP4 (PPF) uses CIP3/CIP4 (PPF) files created with CIP3/CIP4 (PPF)-compatible software on a PostScript RIP. The calculated data is loaded via a USB flash memory or through a network into a RYOBI Printing Control System connected to a RYOBI printing press. The system then converts the data into the opening degree of each ink fountain key.

Automatic Convertible Perfecting Device Boosts Productivity

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Switching between straight printing and perfecting can be performed remotely from the RYOBI PCS-G. Various perfecting device settings switch automatically to match the paper size. These include the open/close timing of the grippers on the storage drum and turning drum, the position of the paper tail edge suction mechanism[*], and the phase of the turning drum and storage drum.

*paper tail edge suction ON/OFF switching is manual depending on the paper width.

One-pass full-color perfecting RYOBI 928P/9210P