

# A3-Plus Size

## A3-Plus Size Offset Presses

### *RYOBI 520GE series*



The RYOBI 520GE series combines features from top-of-the line RYOBI 520GX series models with a new level of cost performance. Advanced automation and labor-saving features enhance operability and ensure consistently high printing quality, offering superior performance for diverse, small-lot multi-color printing jobs.

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# Specifications

Model Name	522GE	524GE	525GE
Number of Printing Units	2	4	5
Max. Paper Size (W x L)	520 x 375 mm(20.47" x 14.76")		
Min. Paper Size (W x L)	100 x 105 mm (3.94" x 4.13")		
Max. Printing Area (W x L)	505 x 350 mm (19.88" x 13.78")		
Paper Thickness <sup>*1</sup>	0.04-0.4 (0.5) mm [0.0016"-0.016" (0.02")]		
Printing Speed <sup>*2</sup>	3,000-11,000 S.P.H.		
Plate Size	510 x 400 mm (20.08" x 15.75") [Positioning pin pitch : 425 mm (16.73")]		
Feeder Pile Capacity	600 mm (23.62")		
Delivery Pile Capacity	400 mm (15.75")		

Design and specifications are subject to change without notice.

\*1 0.5 mm (0.02") stock can be printed when feeding sheets perpendicular to the fiber direction.

\*2 The local conditions, ink, stock, and printing plate types, and printing quality required will affect the max. printing speed. The maximum printing speed is 8,000 S.P.H. when printing postcards.

## Shortened Make-Ready Times Means Higher Production Efficiency

### 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. There is no need to bend the plates' leading or tail edge.

## **The Various Automatic Cleaning Devices**

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

## **Efficient Quality Control Thanks to Systematized Workflow**

### **RYOBI PCS-J<sup>\*1</sup>/ PCS-JX<sup>\*2</sup> Printing Control System**



The operation panel is equipped with a touch-screen LCD, from which the operator can easily control RYOBI Program Inking, save and call up printing data and check the opening volumes of the ink fountain keys.

\*1 Standard: 524GE, Option: 522GE

\*2 Standard: 525GE, Option: 522GE, 524GE

## **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 3.5-inch floppy disk 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.

## **RYOBI Program Inking**

RYOBI Program Inking automatically sets the conversion curve for each color according to the image area ratio data calculated at prepress. The ink settings, fountain roller speed,

and number of contacts by the ink ductor roller are all controlled based on the conversion curves to assure the optimum ink volume. The target printing density can be quickly achieved, significantly shortening the time required for color matching.

\* Smart End Inking is not available on the 522GE.

## **Printing Density Control System (option) RYOBI PDS-E SpectroJet**



The RYOBI PDS-E SpectroJet measures the color bar of the printed sheet using special sensors in a spectrophotometer. Values needed to correct color densities to match those of the OK sheet are calculated and provided as feedback to the RYOBI Printing Control System which, in turn, makes appropriate adjustments in the openings of the ink fountain keys.

\* RYOBI PCS-JX is necessary. (Standard: 525GE, Option: 522GE and 524GE)

## **High Quality Printing**

### **RYOBI-matic Continuous Dampening System**



The RYOBI-matic continuous dampening system assures a uniform dampening supply on the plate surface to reproduce sharp halftone dots, glossy solids and finely detailed text.

### **Simple Cylinder Arrangement**

The satellite type cylinder arrangement - consisting of a double diameter impression cylinder and double diameter and triple diameter transfer drums - allows printing with the

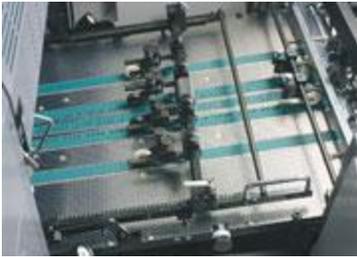
minimum number of gripper changes, maintaining registration accuracy. The double-diameter impression cylinders, which have a large curvature ratio, provide stable paper transport even when printing on heavy stock.

## **Prints on Minimum Paper Size 100 x 105 mm**

The RYOBI 520GE series can print on paper as small as 100 x 105 mm, enabling printing on postcards as well as laterally fed envelopes, further expanding the range of jobs.

## **Reliable Technology Supported by Years of Experience**

### **Suction Tape Feeder Board**



The suction tape feeder board can handle a wide variety of paper stocks in a wide range of thicknesses, assuring consistent, stable paper feeding. Plus, the reduced number of brush and runner wheels simplifies setting the feeder board when changing paper sizes.

### **Numbering and Perforating unit: NP52 (option)**

The NP unit NP52 for the A3-Plus Size Multi-Color Offset Presses enables in-line processing of numbering, perforating and imprinting operations simultaneously with offset printing. It features an independent NP impression cylinder system which allows high-quality numbering and perforating without affecting the offset printing quality. To enhance operational ease, the NP unit uses a well-proven swing-away design.

## **Environment-friendly LED-UV Printing System (525GE option)**

RYOBI has developed a new eco-friendly LED-UV printing system offering impressive energy savings and superior ease of use. This system not only greatly reduces energy consumption but also features a much longer lifespan than a conventional lamp type system. This next-generation system produces minimal heat and no ozone, making it very eco-friendly.