

# RYOBI®

## RYOBI 520GX series

522GX / 524GX / 524GXP / 525GX / 525GXP / 526GX / 526GXP

A3-Plus Size Multi-Color Offset Presses



# State-of-the-Art Technology Ensures Superior Speed and Quality

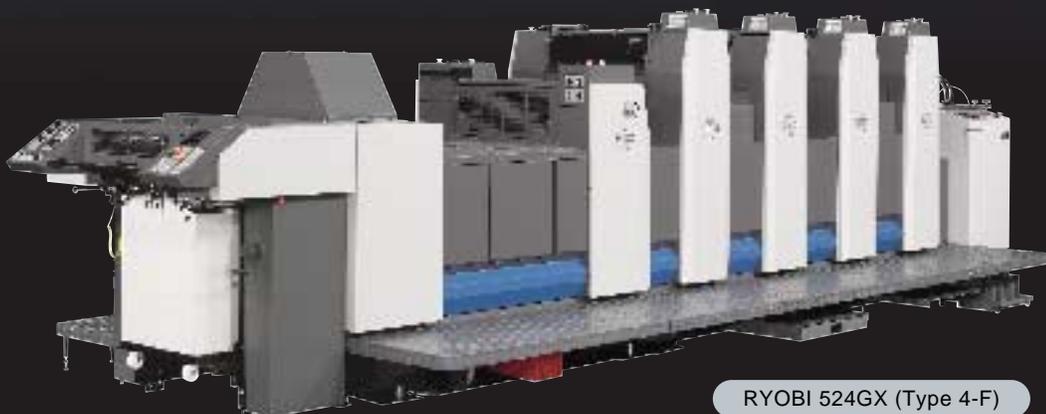
With 10,000 printing units sold worldwide and a solid global reputation, the RYOBİ 520 Series is turning a new page with redesigned models that are even more user-friendly.

The next-generation RYOBİ 520GX Series A3-plus size multi-color offset presses feature a wealth of advanced RYOBİ technologies. Offering faster printing —15,000 sheets per hour—and even more automated processes and labor-saving enhancements, they are a major step forward in productivity, user-friendly operation, and printing quality.

This full range of functions, superior safety and ease-of-operation come in an environmentally friendly design that won the prestigious Good Design Award from the Japan Industrial Design Promotion Organization.

Impressively versatile, RYOBİ 520GX Series A3-plus size multi-color offset presses can handle a wide range of printing jobs, from catalogs and high-grade art printing to packages, envelopes and postcards.

This all-round performance and exceptional quality open the door to new business opportunities.



RYOBİ 524GX (Type 4-F)



RYOBI 524GXP (Type 4-A)

## **RYOBI 520GX Series**

- RYOBI 522GX**  
A3-Plus Size 2-Color Offset Press
- RYOBI 524GX/ 524GXP**  
A3-Plus Size 4-Color Offset Press
- RYOBI 525GX/ 525GXP**  
A3-Plus Size 5-Color Offset Press
- RYOBI 526GX/ 526GXP**  
A3-Plus Size 6-Color Offset Press

\* Photos include some optional accessories.

# Advanced Automatic Systems Enhance Efficiency

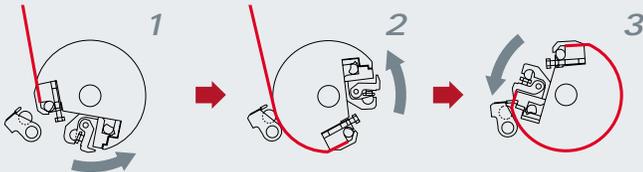


The RYOBİ 520GX Series features a wealth of advanced technologies that enable automated printing and operation with less skill. The result is shorter make-ready times and a reduced operator workload, as well as the flexibility to handle a greater range of jobs in smaller lots with shorter lead times.

## RYOBİ Semiautomatic Plate Changer

The RYOBİ semiautomatic plate changer comes as standard equipment and allows plates to be changed quickly and accurately. The operator merely sets the plate on the positioning pins and presses the button. A plate bending device is unnecessary, as there is no need to bend the plate's leading or tail edge. This automated system allows easy reuse of stored plates, and can handle polyester-based plates as well as metal plates.

### ■ Plate mounting mechanism



## RYOBİ RP740-425AUTO/RYOBİ RP520-425F

### High-Precision Register Punch (option)

The RYOBİ RP740-425AUTO uses a pair of CCD cameras to scan for registration marks. It then automatically adjusts the vertical, lateral and diagonal position of the plate and punches holes to match the image's position. Accurate, efficient punching further assures the accuracy of the RYOBİ semiautomatic plate changer. The RYOBİ RP520-425F, a manual-type punch, is also available.



RYOBİ RP740-425AUTO

## Pull Side Guide and Impression Pressure Preset Systems\*

(for the 524GX/524GXP, 525GX/525GXP, 526GX/526GXP)

Simply inputting the paper size and thickness via the RYOBİ PCS-H touch panel display automatically sets the impression pressure and pull side guide to the optimal position. The impression pressure preset system includes a program-controlled impression cylinder cleaning function as standard.



Pull side guide and impression pressure preset setting screen

\* Pull side guide preset and impression pressure preset systems are not available on the 522GX.

## Automatic Cleaning Devices (optional on the 522GX)

The automatic blanket cleaning device and ink roller cleaning device reduce the time and effort involved in cleaning and changing colors, reducing operator workload. The cleaning pattern for ink rollers and blankets can be selected according to the degree of cleaning required.

### □ Automatic Ink Roller Cleaning Device

This device performs cleaning by separately spraying water and cleaning solution, efficiently removing ink as well as paper dust on the rollers.



Automatic ink roller cleaning device

### □ Automatic Blanket Cleaning Device

This device uses a cleaning cloth saturated with cleaning solution. Maintenance is easy, requiring only a change of the cleaning cloth.



Automatic blanket cleaning device



## Greatly Shortens Make-Ready Time

Almost the entire operation flow from make-ready through printing can be centrally controlled using the touch panel of the RYOBI PCS-H Printing Control System\*, greatly shortening make-ready time for changing the paper, cleaning, registration adjustment, color tone adjustment, dampening volume adjustment, and other tasks when switching jobs. The result is superb operating efficiency for a diverse range of small-lot printing.

\* On the 522GX, the dampening mechanism, automatic ink roller/blanket cleaning device, and plate register remote control device are controlled from the operation panel on the delivery side of the press.

### ■ Make-Ready Time

About 80 sec.	Setting of the feeder section guides, pull side guide preset, impression pressure preset
About 110 sec.	Blanket cleaning (automatic blanket cleaning device)
About 130 sec.	Plate changing (Semi-RPC)
About 80 sec.	Paper size change
About 110 sec.	Ink volume adjustment (RYOBI Program Inking)
About 40 sec.	Registration adjustment (Plate register remote control)
About 100 sec.	Color density adjustment (RYOBI PDS-E)

**Total make-ready time: About 10 min. 50 sec.**

#### Conditions

- Using RYOBI 524GXP (Type 4-A)
- With paper change [from 350 x 500 x 0.5 (t) mm to 375 x 520 x 0.1 (t) mm]
- With image change
- Using pull side guide preset
- Using optional Ink Volume Setter
- Using optional RYOBI PDS-E
- Using impression pressure preset

#### (Notes)

1. Make-ready time as measured by Ryobi's technical staff. The actual time will vary according to the printing conditions, printing environment, and operator experience.
2. Does not include the time required for changing the feeder and delivery pile boards.

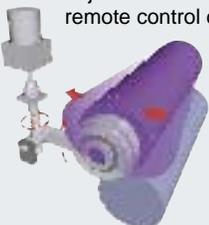


RYOBI PCS-H Printing Control System

## Plate Register Remote Control (vertical, lateral, diagonal)

The plate register remote control device quickly makes precise adjustments of the image position. This system allows the operator to make minute vertical, lateral and diagonal image position adjustments at the delivery side. Adjustments can be made in increments of 0.01 mm (0.0004") within a range of  $\pm 1.0$  mm (0.039") vertically,  $\pm 2.0$  mm (0.079") laterally, and  $\pm 0.15$  mm (0.006") diagonally (at maximum printing area).

Minute diagonal image position adjustment using the plate register remote control device



RYOBI semiautomatic plate changer



# Creating the ideal workflow for total management of production and quality



In addition to networking the prepress, press and post-press operations, RYOBI also provides support for creating the ideal workflow to achieve optimal efficiency, including total management of all production and operation data from receiving orders via a CIP4-JDF compatible management information system to final delivery.

## RYOBI PDS / PDS-E Spectro / PDS-E

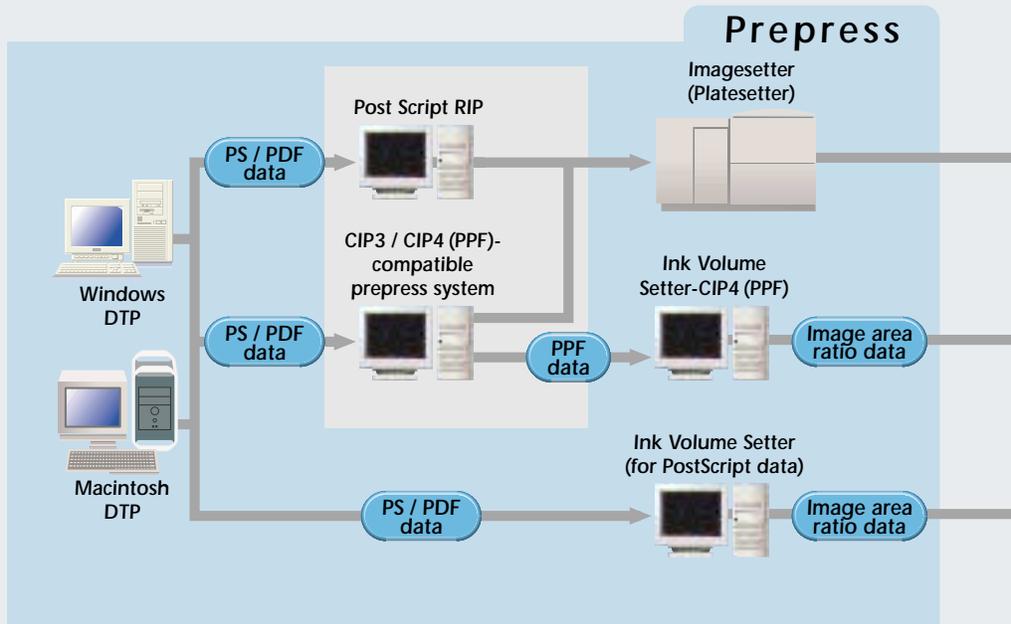
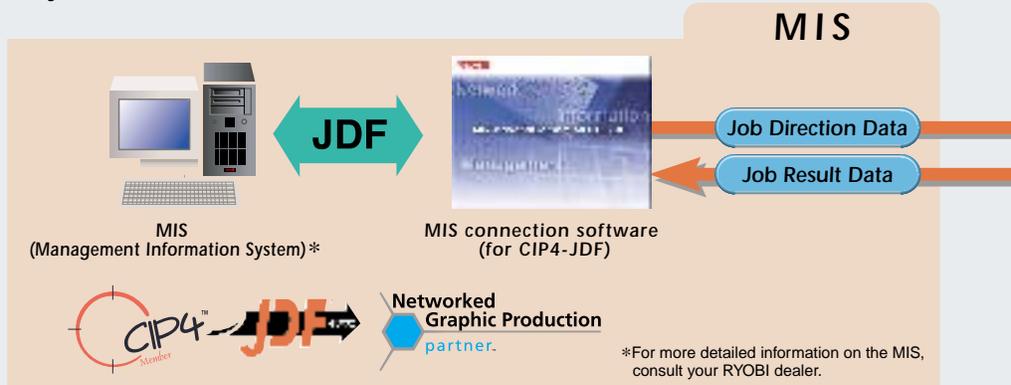
### Printing Density Control System (option)

The RYOBI PDS and PDS-E Spectro measure the color bar of the printed sheet using special spectrophotometer sensors (the PDS-E uses a densitometer). Values needed to correct color densities to match those of the OK sheet are calculated and provided as feedback to the RYOBI PCS-H, which then adjusts the ink fountain keys accordingly. Color adjustments can be made using numerical values calculated for each color, resulting in a reduction in the number of test prints and more consistent printing.



RYOBI PDS-E

## System Flowchart



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

The MIS connection software links a CIP4-JDF compatible management information systems and RYOBI printing presses to enable printing process management from the MIS (Management Information System). MIS connection software for CIP4-JDF enables real-time exchange using the CIP4-JDF data format for sharing job direction data (including job name, number of printing sheets, paper size) and production data (including the printing start time, end time, and number of printed sheets) between the MIS and RYOBI PCS-H printing control system.

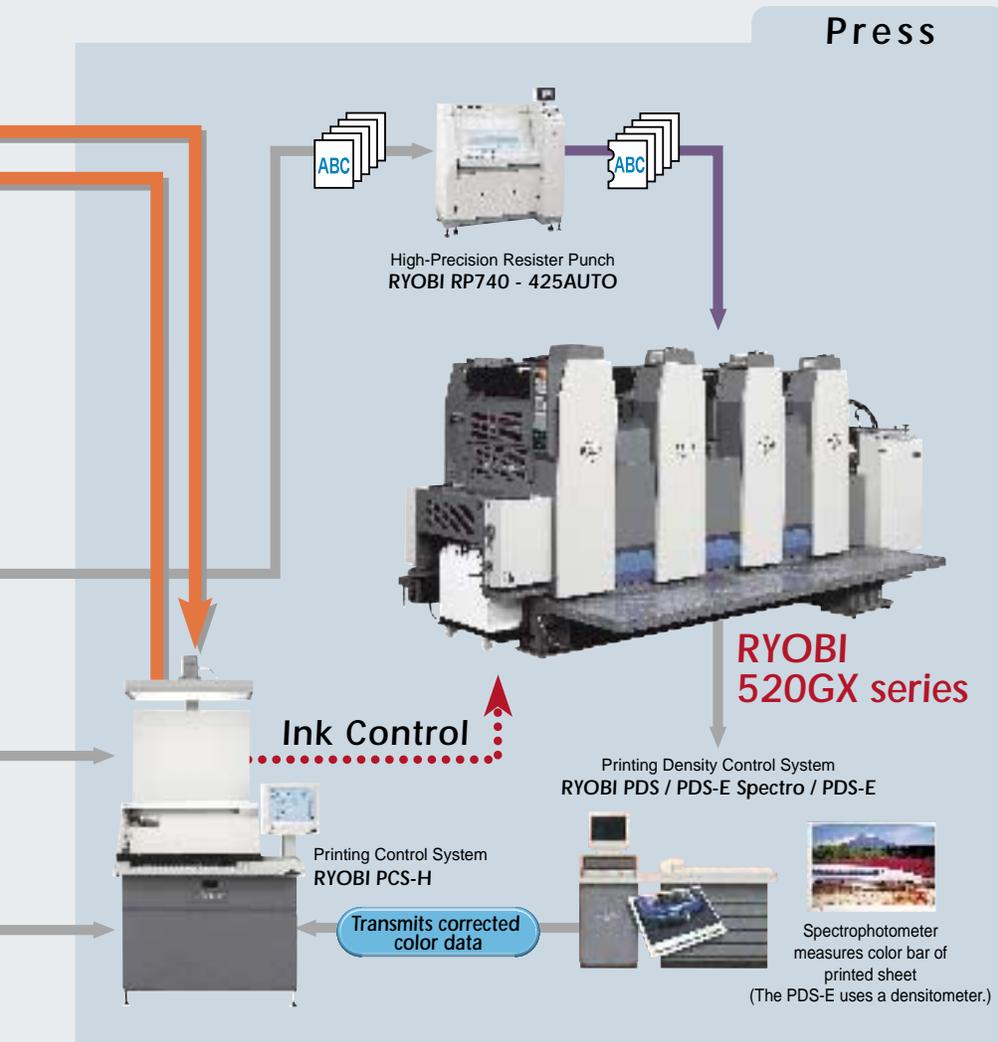
## RYOBI Program Inking

### (built into the RYOBI PCS-H)

The RYOBI Program Inking function, which automatically determines the ideal amount of ink and supplies ink to the rollers before printing starts, has been further upgraded. Now the conversion curve for each color is automatically set according to the image area ratio data calculated at the prepress side. The number of contacts by the ink ductor roller is then controlled based on that conversion curve to automatically supply the ideal amount of ink, significantly reducing the time required for color matching. After the preset number of copies has been printed, the ink on the roller surfaces is automatically restored for faster switchover to the next printing job.



## Press



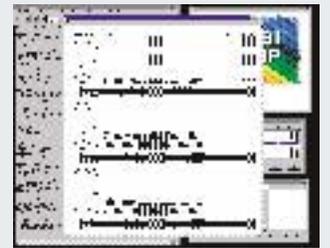
## Image Area Calculating Software (option)

**Ink Volume Setter (for PostScript data)**  
**Ink Volume Setter-CIP4 (PPF)**

The image area ratio data is calculated by the Ink Volume Setter software (option) using PostScript data created on either a Macintosh\*1 or Windows\*2 computer, and then converted by the RYOBI PCS-H to preset the ink fountain keys. Ink Volume Setter-CIP4 (PPF) software (option) allows the image area ratio data to be calculated from PPF files. Effective use of pre-press data can dramatically reduce the labor involved in adjusting the ink fountain keys prior to production printing.

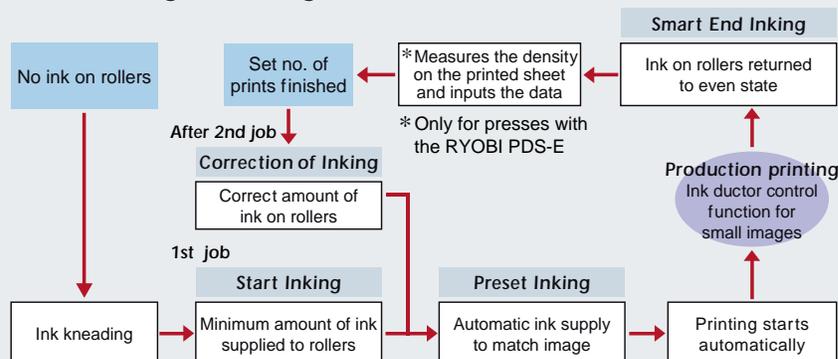
\*1: Macintosh is a registered trademark of Apple Computer, Inc.

\*2: Windows is a registered trademark of Microsoft Corporation in the United States and other countries.

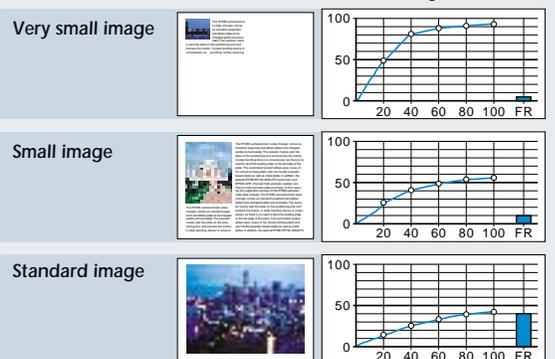


Ink Volume Setter calculation screen

## RYOBI Program Inking Flowchart



## Automatic Conversion Curve Adjustment



# Reliable Mechanisms for High-Speed, High-Quality Printing

## GX

The RYOBI 520GX Series boasts a maximum printing speed of 15,000 sheets per hour. A satellite type cylinder arrangement, advanced inking and dampening mechanisms, super-rigid precision components, and other highly reliable RYOBI technologies ensure faster, higher quality printing.



Inking and dampening mechanisms

## Simple Cylinder Arrangement

The satellite type cylinder arrangement consists of a double diameter impression cylinder and double diameter and triple diameter transfer drums. A minimum number of gripper changes and the larger circumference cylinders means less paper curling, important when printing on thick paper.

## High-Speed Infeed Mechanism

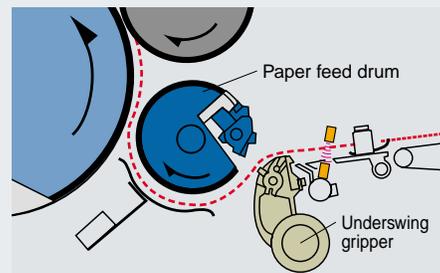
Thanks to a simple yet precise underswing infeed system, an accurate drop-away front lay system and cam-closed type sheet grippers, stable registration accuracy is maintained even during high-speed printing at 15,000 sheets per hour.

## Rugged Design for Superb Durability

A bearer contact cylinder system maintains constant plate pressure during each cylinder rotation. The ultra-high precision gears are induction-hardened and all cylinders use high-precision bearings.

## Superior Inking and Dampening Mechanisms

- Presses with the PCS-H include a new ink fountain with more graduations to enhance ink control precision and match the image with greater accuracy.
- The motor-driven ink fountain rollers are programmed to automatically operate in synchronization with the printing speed, ensuring a stable supply of ink.
- 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. Easy switching between the integrated mode and separated mode allows exact matching of the image and ink characteristics.
- The RYOBI-matic-D Continuous Dampening System with Hickey Removing Function (option) substantially reduces hickies on plates by adopting a new drive mechanism for the water form roller that creates a rotational speed difference between the water form roller and plate cylinder. A hickey picker is also available as an option.
- The optional ink roller temperature control system maintains the roller temperature at the optimum level by circulating temperature-controlled water (warm water and cold water) inside the oscillating rollers and fountain rollers.



High-speed infeed mechanism



Ultra-high precision gears

# Flexibility to Handle A Wide Range Of Jobs



The RYOBI 520GX Series can flexibly handle a wide range of printing jobs, from thin invoices to fliers, high-grade art books, catalogs, and even thick-paper work such as covers and packaging.

## Suction Tape Feeder Board

The suction tape feeder board uses a suction belt to securely hold the paper and feed it forward. The feeder board can be quickly and easily set for a wide range of paper sizes and thicknesses.

## Compatibility with Many Types of Paper

RYOBI 520GX Series presses have a minimum paper size of 100 x 105 mm\* (3.94" x 4.13"), enabling the printing of postcards as well as laterally fed envelopes. In addition, these presses can also handle paper thicknesses ranging from 0.04 mm (0.0016") onion skin to 0.6 mm (0.024") card stock.

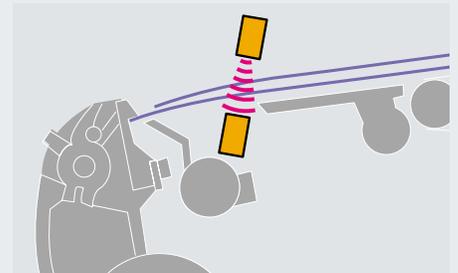
\* Min. paper size on the 524GXP/525GXP/526GXP when perfecting is 100 x 150 mm (3.94" x 5.91").

## Stable Sheet Piling

The decurling device uses a vacuum to eliminate curls in paper stock immediately prior to delivery. Printed sheets are delivered neat and flat. In addition, an air blower and suction wheels boost sheet piling performance when printing at high speed.

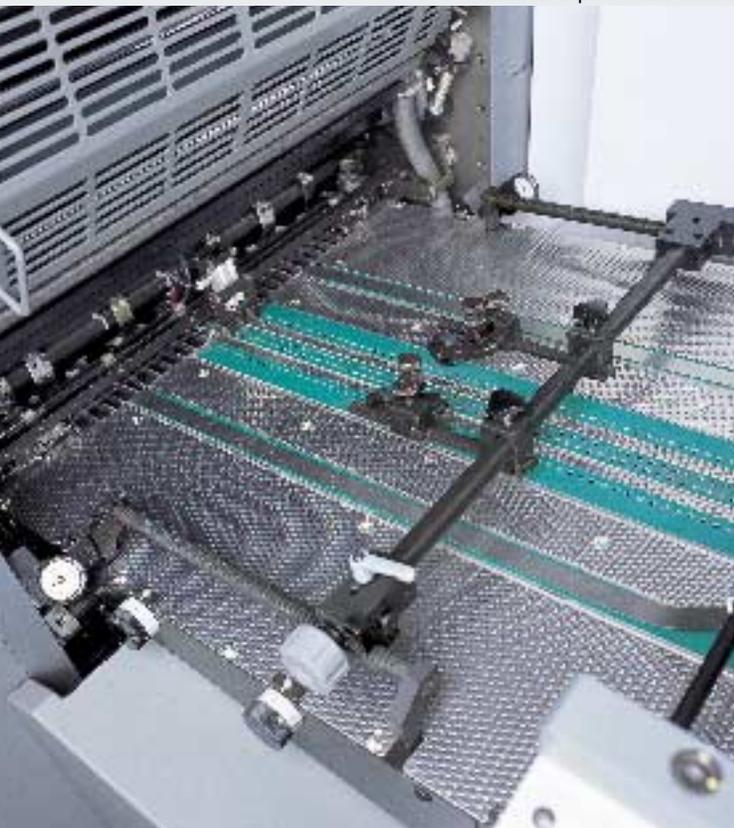


Envelope feeding



Ultrasonic type double sheet detector (option)

Suction tape feeder board



## Various Sensors Prevent Problems Before They Occur

A variety of sensors constantly monitor the paper flow from the feeder side through to the delivery side. In the unlikely event a problem occurs, the cause of the problem is immediately displayed on the RYOBI PCS-H\* display's OK monitor to enable prompt action.

\* The RYOBI PCS-H is an option on the 522GX.

### Side Lay Sensor (option)

If the pull side guide fails to accurately pull the paper, the problem is immediately detected and an alarm is sounded to inform the operator.

### Ultrasonic Type Double Sheet Detector (option)

The attenuation rate of an ultrasonic signal that is passed through the paper is measured to detect with high precision any double-sheet feeding of thick paper, transparent film, etc.

### Front Lay Paper Stopper

When feeding trouble (double sheets, slewed paper, etc.) occurs, the front lay paper stopper functions by pushing the paper at the front lay to avoid a paper transfer jam.

# Fifth and Sixth Color Printing and an In-Line Coating System Add Value



In addition to conventional 4-color printing, the RYOBI 520GX Series is also compatible with 5- and 6-color printing. Installation of an in-line coating system enables application of an aqueous or UV coating on printed materials for higher added value.



Coating unit

## Coating Unit

Presses with an in-line coating system can apply an aqueous or UV coating on printed material. Such protective or glossy coatings add higher value to printing. The system's short drying time is especially helpful for jobs with short turnaround times. The universal clamp can accommodate either a blanket with an aluminum bar or a nylon plate attached to a metal plate, thereby enabling spot coating as well as overall coating. The spot coating position can be adjusted using a clamp on the coating cylinder.

## Fifth and Sixth Color Printing Enhance the Visual Effect of Printed Materials

Fifth- and sixth-color printing units can print custom colors and supplemental colors, including gold, silver, fluorescent and opalescent inks. They easily handle spot-color printing for logos or company names which use specialty inks. These units demonstrate their worth particularly in high-end printing jobs such as pamphlets or art books, which require a strong visual effect with greater detail.

## Retractable Coating Unit Design

When the 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 paper marking. A safety guard between the main press unit and coating cylinder allows maintenance work (such as cleaning the coating cylinder or mounting blanket) even while the press is in operation. This enables faster switchover to the next printing job.

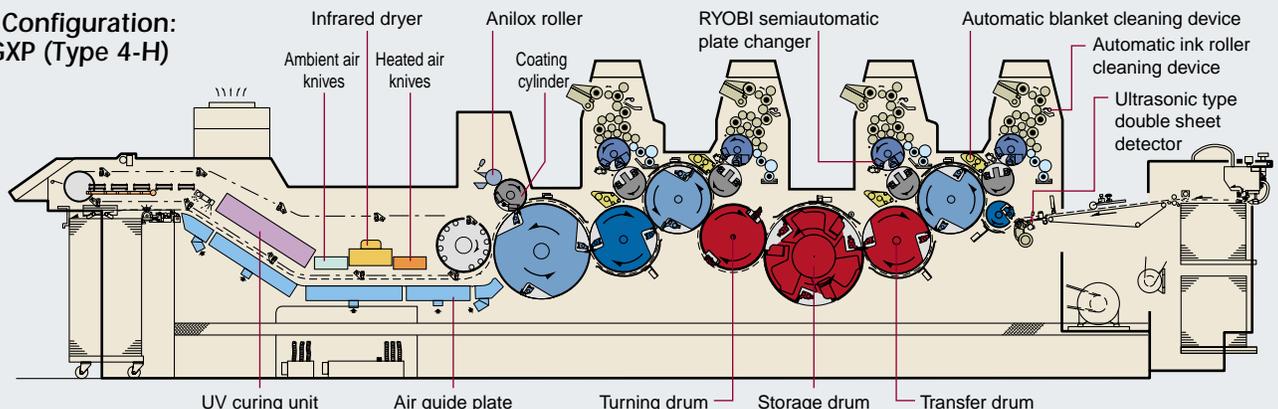
## Various Dryer Units

An infrared dryer and/or UV curing unit can be equipped in the delivery section. A cassette type inter-deck UV curing unit can also be mounted either over the transfer drum after the 2nd or 4th units, or over the coating impression cylinder of the 524GX/526GX. Combining a coating unit and these UV curing units not only provides quick drying for a shorter delivery time, it also makes possible high value-added printing such as printing on film as well as embossed printing.



Infrared dryer

## Mechanical Configuration: RYOBI 524GXP (Type 4-H)



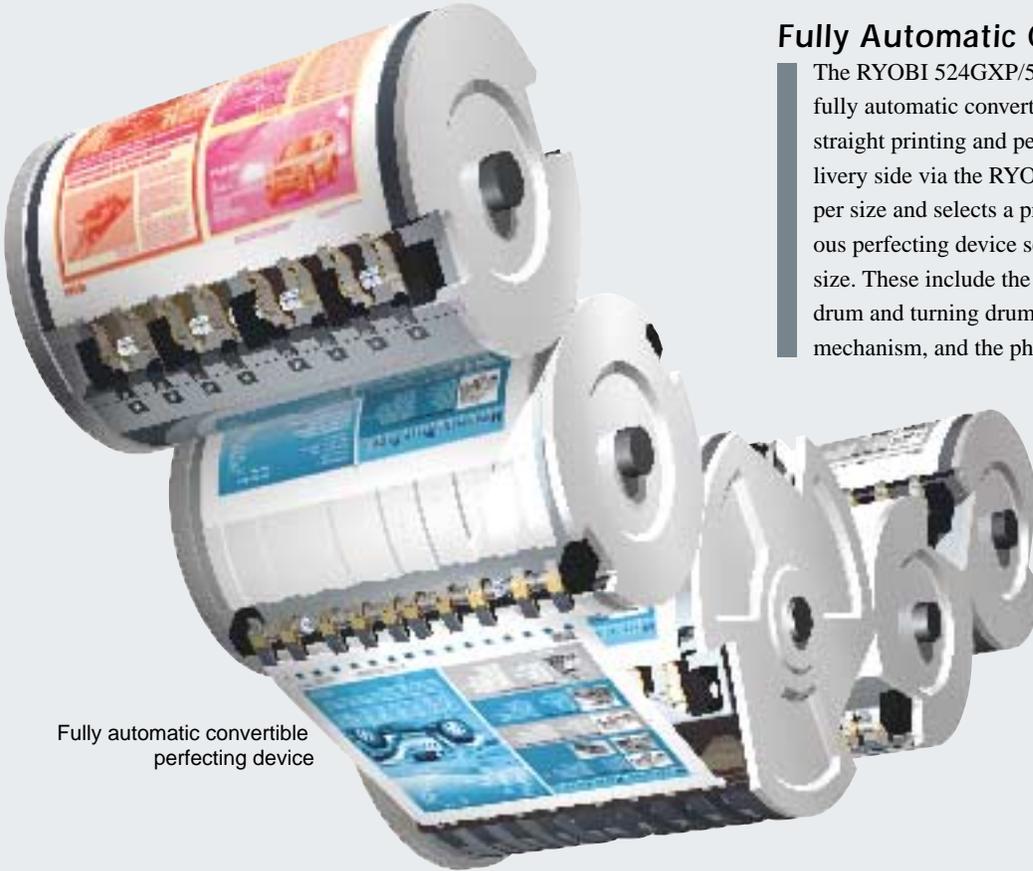
# Ryobi's Fully Automatic Convertible Perfecting Device Boosts Productivity



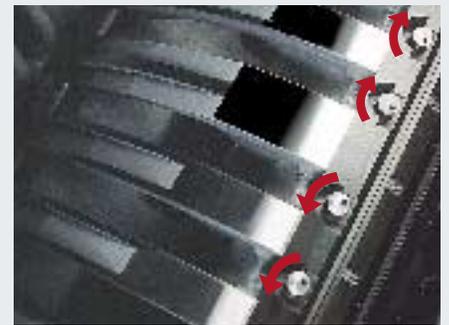
The RYOBI 524GXP, 525GXP, and 526GXP are all equipped with a convertible perfecting device that enables operation to be switched from straight printing to perfecting fully automatically without having to use a single tool. Perfecting can thus be performed in a single pass, providing exceptional flexibility for printing jobs with short lead times.

## Fully Automatic Convertible Perfecting Device

The RYOBI 524GXP/525GXP/526GXP presses are equipped with a fully automatic convertible perfecting device. Switching between straight printing and perfecting can be performed remotely from the delivery side via the RYOBI PCS-H. The operator simply inputs the paper size and selects a printing mode from the touch panel display. 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 and turning drum, the position of the paper tail edge suction mechanism, and the phase of the turning drum and storage drum.



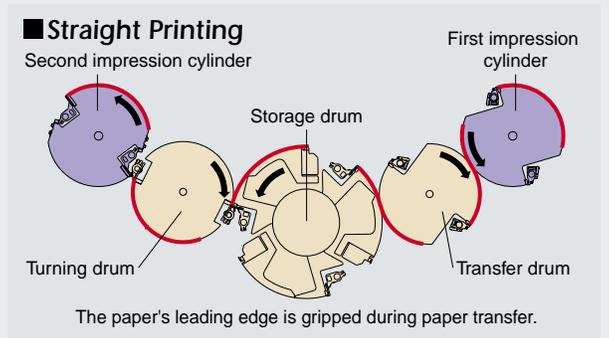
Fully automatic convertible perfecting device



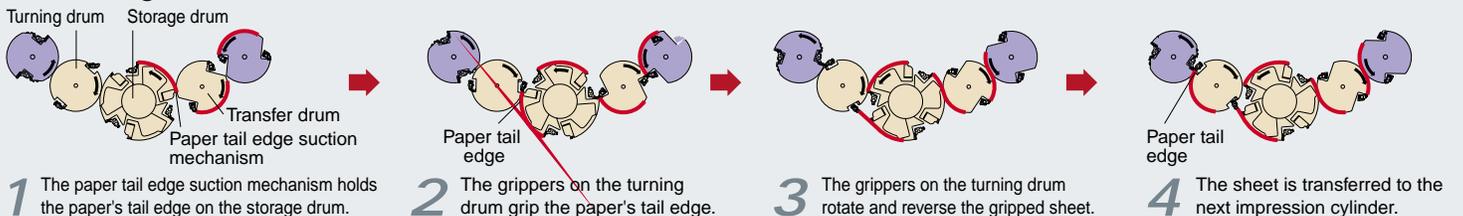
Paper tail edge suction mechanism

## Features that Support High-Quality Printing

- The impression cylinders that follow the convertible perfecting cylinder use a jacket with a specially processed surface. This prevents damage to the back side of the paper, guaranteeing superb print quality even when perfecting.
- The rotating suckers of the paper tail edge suction mechanism tightly hold the paper's tail edge, pulling it both lengthwise and laterally to accurately transfer the paper from the storage drum to the turning drum.
- Air blown by the air guide plate (perfector only) enables sheets to be delivered without touching the delivery section. This system prevents the back side of the sheet from being damaged.



## ■ Perfecting



	Type	Number of colors (front/back)	Coating unit	Delivery		Dryer					Mechanical side view
				Low-pile	Semi-high pile	Delivery		Inter-deck UV curing unit			
						Infrared dryer	UV curing unit	After 2nd unit	After 4th unit	After 6th unit	

### RYOBI 522GX Combination Chart

● Standard equipment ○ Available — Not available

522GX	—	2/0	—	●	—	—	—	—	—	—	—	
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### RYOBI 524GX/524GXP Combination Chart

524GX	4-A	4/0	—	●	—	—	—	—	—	—	Type 4-A 
524GXP		4/0, 2/2	—	—	—	—	—	—	—	—	
524GX	4-B	4/0	—	—	●	○	○	○	—	—	Type 4-B 
524GXP		4/0, 2/2	—	—	●	○	○	—	—	—	
524GX	4-C	4/0	—	—	●	●	—	—	—	—	Type 4-C/D/E 
524GXP		4/0, 2/2	—	—	●	—	—	—	—	—	
524GX	4-D	4/0	—	—	●	—	●	—	—	—	Type 4-F/G/H 
524GXP		4/0, 2/2	—	—	●	—	●	—	—	—	
524GX	4-E	4/0	—	—	●	●	●	—	—	—	Type 4-I 
524GXP		4/0, 2/2	—	—	●	—	●	—	—	—	
524GX	4-F	4/0	●	—	●	—	—	—	—	—	Type 4-F/G/H 
524GXP		4/0, 2/2	●	—	●	●	—	—	—	—	
524GX	4-G	4/0	●	—	●	—	●	—	—	—	Type 4-F/G/H 
524GXP		4/0, 2/2	●	—	●	—	●	—	—	—	
524GX	4-H	4/0	●	—	●	●	●	—	—	—	Type 4-F/G/H 
524GXP		4/0, 2/2	●	—	●	●	●	—	—	—	
524GX	4-I	4/0	●	—	●	○	○	○	○	—	Type 4-F/G/H 
524GXP		4/0, 2/2	●	—	●	○	○	—	—	—	

### RYOBI 525GX/525GXP Combination Chart

525GX	5-A	5/0	—	—	●	○	○	○	○	—	Type 5-A 
525GXP		5/0, 3/2	—	—	●	○	○	—	—	—	
525GX	5-B	5/0	—	—	●	●	—	—	—	—	Type 5-B/C/G 
525GXP		5/0, 3/2	—	—	●	●	—	—	—	—	
525GX	5-C	5/0	—	—	●	—	●	—	—	—	Type 5-D/E/F 
525GXP		5/0, 3/2	—	—	●	—	●	—	—	—	
525GX	5-D	5/0	●	—	●	●	—	—	—	—	Type 5-D/E/F 
525GXP		5/0, 3/2	●	—	●	●	—	—	—	—	
525GX	5-E	5/0	●	—	●	—	●	—	—	—	Type 5-D/E/F 
525GXP		5/0, 3/2	●	—	●	—	●	—	—	—	
525GX	5-F	5/0	●	—	●	●	●	—	—	—	Type 5-D/E/F 
525GXP		5/0, 3/2	●	—	●	●	●	—	—	—	
525GX	5-G	5/0	—	—	●	●	●	—	—	—	Type 5-H 
525GXP		5/0, 3/2	—	—	●	●	●	—	—	—	
525GX	5-H	5/0	●	—	●	○	○	○	○	—	Type 5-H 
525GXP		5/0, 3/2	●	—	●	○	○	—	—	—	

	Type	Number of colors (front/back)	Coating unit	Delivery		Dryer					Mechanical side view
				Low-pile	Semi-high pile	Delivery		Inter-deck UV curing unit			
						Infrared dryer	UV curing unit	After 2nd unit	After 4th unit	After 6th unit	

### RYOBI 526GX/526GXP Combination Chart

● Standard equipment ○ Available — Not available

526GX	6-A	6/0	—	—	●	○	○	○	○	—	Type 6-A 7,459 mm (24'6") 1,717 mm (5'8")
526GXP		6/0, 4/2	—	—	●	○	○	—	—	—	
526GX	6-B	6/0	—	—	●	●	—	—	—	—	Type 6-B/C/D 7,459 mm (24'6") 1,717 mm (5'8")
526GXP		6/0, 4/2	—	—	●	●	—	—	—	—	
526GX	6-C	6/0	—	—	●	—	●	—	—	—	Type 6-E/F/G 8,394 mm (27'6") 1,717 mm (5'8")
526GXP		6/0, 4/2	—	—	●	—	●	—	—	—	
526GX	6-D	6/0	—	—	●	●	●	—	—	—	Type 6-H 8,394 mm (27'6") 1,717 mm (5'8")
526GXP		6/0, 4/2	—	—	●	●	●	—	—	—	
526GX	6-E	6/0	●	—	●	—	—	—	—	—	Type 6-E/F/G 8,394 mm (27'6") 1,717 mm (5'8")
526GXP		6/0, 4/2	●	—	●	—	—	—	—	—	
526GX	6-F	6/0	●	—	●	—	●	—	—	—	Type 6-E/F/G 8,394 mm (27'6") 1,717 mm (5'8")
526GXP		6/0, 4/2	●	—	●	—	●	—	—	—	
526GX	6-G	6/0	●	—	●	●	—	—	—	—	Type 6-H 8,394 mm (27'6") 1,717 mm (5'8")
526GXP		6/0, 4/2	●	—	●	●	—	—	—	—	
526GX	6-H	6/0	●	—	●	○	○	○	○	○	Type 6-H 8,394 mm (27'6") 1,717 mm (5'8")
526GXP		6/0, 4/2	●	—	●	○	○	○	○	○	

(Note)

- There are some coating and drying limitations when perfecting. For more information, please ask your dealer.
- Aqueous coating and UV coating cannot be done simultaneously.
- The inter-deck UV curing unit is designed for pre-curing of printed materials before UV curing in the delivery section. As this unit alone may not sufficiently cure the ink, depending on the ink's type and trapping volume, it should always be used together with the UV curing unit in the delivery section.
- The inter-deck UV curing unit is only available as a set with the UV curing unit in the delivery section. The inter-deck UV curing unit is not sold separately.
- In order to minimize the influence of heat on the printing unit during long-run printing, concurrent use with an ink roller temperature control device is recommended when using the inter-deck UV curing unit.
- The inter-deck UV curing unit cannot be mounted between the 1st and 2nd, 3rd and 4th, or 5th and 6th units of the printing press.

### Mechanical Dimensions (Unit: mm)

<p><b>RYOBI 522GX</b></p>	<p><b>RYOBI 524GX/524GXP (Type 4-A)</b></p>
<p><b>RYOBI PCS-H and PDS</b></p>	<p><b>RYOBI 525GX / 525GXP (Type 5-F)</b></p>

## ■ Press Specifications

		522GX	524GX 524GXP	525GX 525GXP	526GX 526GXP
Number of Printing Units		2	4	5	6
Max. Paper Size		520 x 375 mm (20.47" x 14.76")			
Min. Paper Size		100 x 105 mm (3.94" x 4.13")	Straight: 100 x 105 mm (3.94" x 4.13")		Perfecting: 100 x 150 mm (3.94" x 5.91")
Max. Printing Area		505 x 350 mm (19.88" x 13.78")			
Paper Thickness *1		0.04–0.6 mm (0.0016" – 0.024")	Straight: 0.04–0.6 mm (0.0016" – 0.024")		Perfecting: 0.04–0.4 mm (0.0016" – 0.016")
Printing Speed		3,000–15,000 S.P.H. *2			
Plate Size		510 x 400 mm (20.08"x 15.75") [positioning pin pitch: 425 mm (16.73")]			
Plate Thickness		0.3 mm (0.012") (cylinder packing total)			
Blanket Type		Blanket with aluminum bar			
Blanket Size		541 x 437 x 1.95 mm (21.3" x 17.2"x 0.077")			
Under-Blanket Size		505 x 389 x 0.6 mm (19.88" x 15.31" x 0.024")			
Feeding System		Rotary type stream feeder			
Feeder Pile Capacity		800 mm (31.5")			
Delivery Pile Capacity		430 mm (16.93")	Low-pile:430 mm (16.93") Semi-high pile:700 mm (27.56")	700 mm (27.56")	
Infeed System		Underswing gripper and paper feed drum			
Number of Rollers		Ink rollers: 17 (form rollers: 4)/ unit Water rollers: 4 (form roller: 1)/ unit			
Gripper Margin		9 ± 1 mm (0.354" ± 0.039")			
Vertical Image Micro Adjustment Range		± 1 mm (± 0.039") by plate cylinder			
Vertical Image Rough Adjustment Range		± 20 mm (± 0.79")			
Lateral Image Micro Adjustment Range		± 2 mm (± 0.079") by plate cylinder			
Diagonal Image Micro Adjustment Range		± 0.15 mm (± 0.006") by plate cylinder (at max. printing area)			
Oiling System		Automatic centralized oiling system			
Power Source *3	Press	3 phase, 200V, 50/60Hz or other voltages		3 phase, 200V, 50/60Hz or other voltages	
	Coating unit and dryer	—		—	
Electric Current *3	Press	32 A	524GX: 63 A 524GXP: 70 A	525GX: 73 A 525GXP: 80 A	526GX: 78 A 526GXP: 85 A
	Coating unit and dryer	—	90A (4-C), 80A (4-D) 170A (4-E), 105A (4-F) 95A (4-G), 185A (4-H)	90A (5-B), 80A (5-C) 105A (5-D), 95A (5-E) 185A (5-F), 170A (5-G)	90A (6-B), 80A (6-C) 170A (6-D), 105A (6-E) 95A (6-F), 185A (6-G)
Power Consumption *3	Press	9.5 kW	524GX: 16 kW 524GXP: 18.5 kW	525GX: 21 kW 525GXP: 24 kW	526GX: 23 kW 526GXP: 25 kW
	Coating unit and dryer	—	32 kW (4-C), 28 kW (4-D) 59 kW (4-E), 37 kW (4-F) 33 kW (4-G), 65 kW (4-H)	32 kW (5-B), 28 kW (5-C) 37 kW (5-D), 33 kW (5-E) 65 kW (5-F), 59 kW (5-G)	32 kW (6-B), 28 kW (6-C) 59 kW (6-D), 37 kW (6-E) 33 kW (6-F), 65 kW (6-G)
Dimensions	Length	2,700 mm (8'10")	4,196 mm (13'9") *4	7,459 mm (24'6") *4	
	Width	2,285 mm (7'6")	2,355 mm (7'9")		
	Height	1,717 mm (5'8")			
Weight		3,500 kg (7,720 lbs.)	524GX: 7,100 kg*4 (15,650 lbs.) 524GXP: 7,800 kg*4 (17,200 lbs.)	525GX: 11,900 kg*4 (26,230 lbs.) 525GXP: 12,200 kg*4 (26,900 lbs.)	526GX: 12,500 kg*4 (27,560 lbs.) 526GXP: 12,800 kg*4 (28,220 lbs.)

\*1: There are some limitations to print thick paper depending on paper types.

\*2: 15,500 S.P.H. is possible on special request. The local conditions, ink, stock and printing plate types, and printing quality required will affect the maximum printing speed.

\*3: In regard to the information for the electrical specifications of the presses that are equipped with the inter-deck UV curing unit, please contact your local dealer.

\*4: Dimensions and weight are for Type A model and do not include peripheral devices.

## ■ Coating Unit and Dryer Specifications

Max. Coating Area		505 x 350 mm (19.88 x 13.78")
Coating Cylinder Blanket Size		546 x 427 x 1.95 mm (21.5" x 16.81" x 0.077")
Number of Coating Roller		1 (anilox roller)
Dryer	Infrared dryer	3.8 kW x 4 lamps
	UV curing unit	8 kW x 2 lamps

\* There are some coating and drying limitations when perfecting. For more information, please ask your dealer.

Design and specifications are subject to change without notice. Specifications may differ slightly depending on the country.

## Standard and Optional Equipment

	522GX	524GX 524GXP	525GX 525GXP	526GX 526GXP
Suction tape feeder board	●	●	●	●
Pull side guide preset system	—	●	●	●
Side lay sensor *1	○	○	○	○
Front lay micro adjustment device (manual)	●	●	●	●
Impression pressure preset system	—	●	●	●
RYOBI semiautomatic plate changer	●	●	●	●
Plate register remote control device	●	●	●	●
RYOBI PCS-H Printing control system	○	●	●	●
RYOBI program inking (built into the PCS-H)	○*2	●	●	●
Dial control ink fountain	●	—	—	—
RYOBI-matic Continuous dampening system	●	●	●	●
Dampening solution cooling/circulation device	●	●	●	●
Intermediate tank for dampening solution cooling/circulation device	○	○	○	○
RYOBI-matic-D Continuous dampening system with hickey removing function	○	○	○	○
Hickey picker *1	○	○	○	○
Ink Volume Setter (for PostScript data)	○*2	○	○	○
Ink Volume Setter-CIP4 (PPF)	○*2	○	○	○
RYOBI PDS (spectrophotometer)	○*2	○	○	○
IntelliTrax connection kit software	○*2	○	○	○
RYOBI PDS-E Spectro (spectrophotometer)	○*2	○	○	○
RYOBI PDS-E (densitometer)	○*2	○	○	○
MIS connection software (for CIP4-JDF)	○*2	○	○	○
Ink roller temperature control system	—	○	○	○
Automatic ink roller cleaning device	○	●	●	●
Automatic blanket cleaning device	○	●	●	●
Inching box (non-operation side)	○	●	●	●
Double sheet detectors (mechanical/electronic)	●	●	●	●
Ultrasonic type double sheet detector *1	○	○	○	○

● Standard equipment ○ Optional equipment — Not available

	522GX	524GX 524GXP	525GX 525GXP	526GX 526GXP
Slewed paper detector	●	●	●	●
Front lay paper stopper	●	●	●	●
Static eliminator	●	●	●	●
Decurling device	●	●	●	●
Powder spray device (RYOBI)	●	●	●	●
Powder spray device (Grafix GmbH)	—	○	○	○
Preset repeat counter (5-digit)	●	●	●	●
Machine counter (10-digit)	●	●	●	●
Print counter (10-digit)	○	●	●	●
OK monitor	●	●	●	●
Tape inserter	○	○	○	○
Nonstop delivery device	○	○	○	○
Inter-deck UV curing unit	—	○ (524GX)	○ (525GX)	○ (526GX)
Special sheet printing kit	—	○	○	○
Coating barrel	—	○	○	○
Coating barrel with heater	—	○	○	○
Straight edge blanket clamp kit	○	○	○	○
RYOBI RP740-425AUTO High-precision register punch (automatic)	○	○	○	○
RYOBI RP520-425F High-precision register punch (manual)	○	○	○	○
NP unit: NP52 *3	○	○	—	—
Ink oscillating form roller(for 1st form roller)	○	○	○	○
Oscillating bridge roller	○	○	○	○
UV roller *4	○	○	○	○
Air compressor	●	*5	*5	*5
Various safety devices (certified under global safety standards)	●	●	●	●

\*1: Factory installation recommended. \*2: RYOBI PCS-H is required.

\*3: Available on low-pile delivery models only.

\*4: The UV roller is standard on models equipped with a UV curing unit.

\*5: An air compressor is standard equipment on the RYOBI 522GX/524GX/524GXP (types 4-A/B/C/D/E). However, it is not equipped on the RYOBI 524GX/524GXP (types 4-F/G/H), 525GX/525GXP and 526GX/526GXP and thus should be prepared at the customer's side. For more information, please ask your dealer.

## NP52 NP unit for Value-Added Tasks

(Available as an option for the 522GX/524GX/524GXP with low-pile delivery)

RYOBI 522GX, 524GX and 524GXP with low-pile delivery can be retrofitted with the NP52 numbering and perforating unit as an option. The NP52 features an independent NP impression cylinder to enable high-quality numbering and perforating. Plus, when only offset printing is required without any finishing operations, the NP unit can be swung away from the parent press in just a few minutes.



NP52

## NP52 Specifications

Max. Paper Size (when using NP unit)	520 x 365 mm (20.47" x 14.37")*
Min. Paper Size (when using NP unit)	257 x 182 mm (10.12" x 7.17")*
Paper Thickness (when numbering)	0.04 – 0.25 mm (0.002" – 0.0098")*
Paper Thickness (when perforating)	0.04 – 0.15 mm (0.002" – 0.059")*
Max. Numbering Area	505 x 345 mm (19.88" x 13.58")
Max. Nylon Plate Size	90 x 120 mm (3.54" x 4.72") (for one spot color printing)
Imprinting Area	505 x 345 mm (19.88" x 13.58") (spot color printing of numerous small images is possible in this area)
Printing Speed (when using NP unit)	3,000 – 8,000 S.P.H.*
Number of Ink Rollers	8 (form rollers: 2)
Delivery Pile Capacity	350 mm (13.78")*
Numbering Box (straight-type/convex-type)	Total boxes (max.): 20
Vertical Perforator	5 pcs. (max.)
Cross Perforator	3 pcs. (max.)
Dimensions (L x W x H)	920 x 1,020 x 1,020 mm (3' x 3'4" x 3'4")
Weight	460 kg (1,015 lbs.)

\* The parent press specifications vary when using the NP unit.

## RYOBI 520GX series

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**RYOBI.**

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