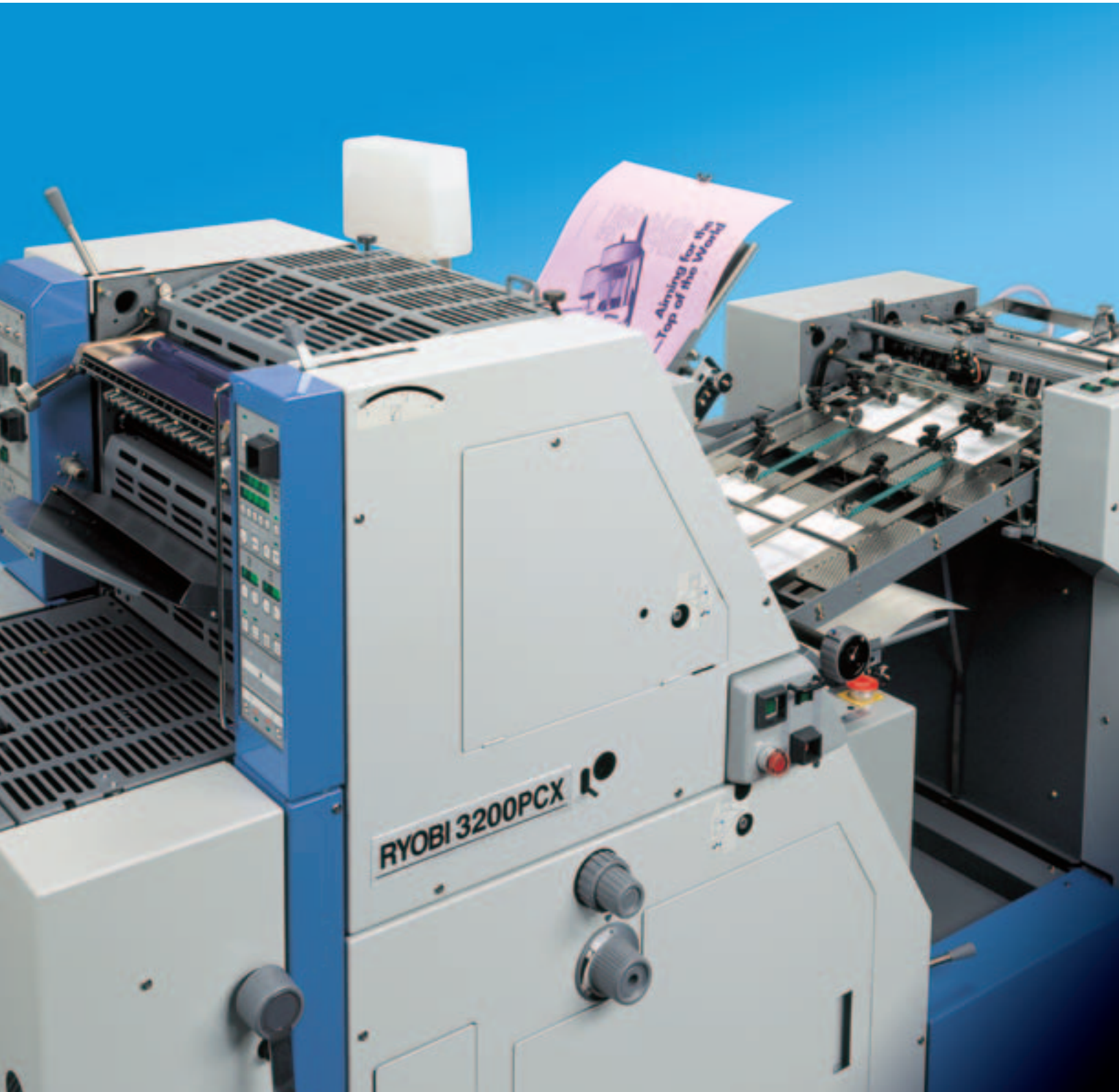# RYOBI 3200PCX

A3-Size Automatic Offset Perfector

Printing processes are automated for enhanced productivity

Automatic Continuous Printing

A touch of a single button initiates a complete series of printing operations—from master insertion to image transfer, paper feeding, printing, master ejection, all the way to blanket cleaning and drying.

NEW Automatic Paper Master Insertion and Ejection

Quick, accurate insertion of the paper master is performed automatically in the printing sequence. Paper master ejection is also handled automatically when the printing job is completed. The plate feed speed can be set to suit the plate material, enabling smooth continuous printing.

Paper Master Tail Edge Holder

The tail edge holder ensures accurate placement of the paper master on the cylinder.
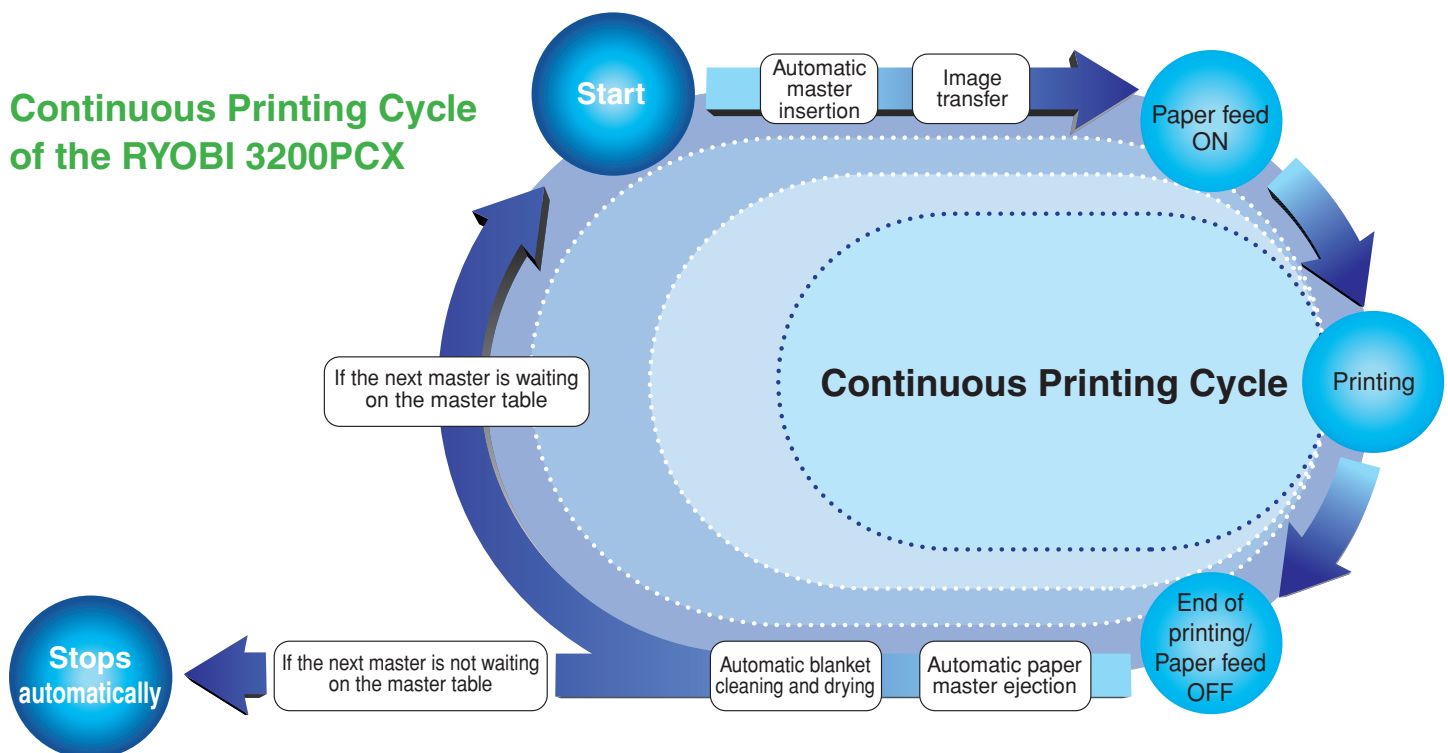
Automatic Blanket Cleaning and Drying

After printing, the blankets are automatically cleaned and dried. For versatility, blanket cleaning and drying can be done manually at any time by push-button operation.

Test Feeding Function

The test feeding function is convenient for checking printing quality. Just set this function ON after the paper master is changed for the next job, and the machine prints a preset number of test sheets and enters standby mode to await your next command.

Continuous Printing Cycle of the RYOBI 3200PCX

Start

Automatic master insertion

Image transfer

Paper feed ON

If the next master is waiting on the master table

Continuous Printing Cycle

Printing

End of printing/ Paper feed OFF

Stops automatically

If the next master is not waiting on the master table

Automatic blanket cleaning and drying

Automatic paper master ejection

A variety of functions improve operability and range of application

Crestline* Continuous Dampening System

A Crestline* Continuous Dampening System enables easy adjustment of the water supply volume. The system maintains a stable water film on the printing plate, making it easy to ensure consistently high print quality across a broad range of originals—from fine text to heavy solids. Set-up is quick and easy, and the number of test prints is kept to an absolute minimum. In addition, a squeeze roller comes as a standard accessory to curb excessive emulsification during long run printing and maintain consistent dampening.

*Crestline is a registered trademark of Accel Graphic Systems.

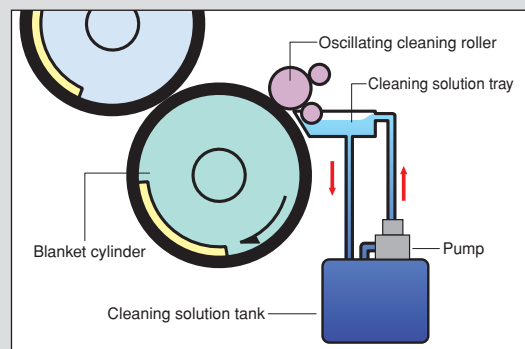Crestline continuous dampening system

Easy Push Button Operation

Lever-free operation lets you start printing at the touch of a button. Centralized control panels on the delivery side of the press give the operator full command of all operations, including printing start, image position adjustments, preset repeat counter, master ejection and blanket cleaning. For added flexibility, the panel swivels, enabling the operator to position it at the optimum viewing angle.

Delivery side centralized operation panels

NEW Blanket Cleaning Device with Cleaning Solution Circulation System (option)

A newly developed blanket cleaning device that uses a cleaning solution circulation system is available as an option. A pump is attached to the cleaning solution tank and fluid is automatically pumped into the cleaning solution tray. Having the cleaning solution constantly circulating in the tray enhances cleaning efficacy. The use of oscillating cleaning rollers is highly effective in removing ink, paper dust, and other detritus adhering to the blanket.

Oscillating cleaning roller
Cleaning solution tray
Blanket cylinder
Pump
Cleaning solution tank

Blanket cleaning device with cleaning solution circulation system

Plate Register Remote Control Device (vertical, lateral)

Vertical and lateral image adjustment for both sides of the paper can be made digitally at the delivery side in incremental steps of 0.1mm (0.004").

Easy Metal Plate Printing

Ryobi's universal plate clamping device incorporates a pin bar clamp for easy, convenient metal plate printing.

Wide 317 x 438 mm (12.48" x 17.24") Printing Area

A wide printing area provides the flexibility to handle jobs from A5 size 4-up or A4 size 2-up with trimming marks to printing index marks and on cover stock.

Printing using a metal plate

Reliable printing technology

▍▍▍▍ Stable Blanket to Blanket Perfecting and Direct Chain Delivery

For highly accurate, reliable printing, Ryobi harnesses the proven performance of a blanket to blanket perfecting system, where sheets are fed between two blanket cylinders to be printed. From the feeder to the delivery section, the mechanism is designed to pass the sheets virtually straight and smoothly.

NEW ▍▍ Smooth Paper Feed and Delivery

Twelve suction feet ensure stable paper feed, regardless of the type of paper. One-touch air vacuum control allows quick changes of paper size and thickness. At the delivery section, newly added delivery fans, an air blower, side jogger and other features ensure neat, efficient sheet piling even during high speed operation.

▍▍▍▍ Pre-Piling with Large Pile Capacities

This time-saving pre-piling system allows the next batch of sheets to be piled on the lower paper pile board while sheets are being fed from the upper paper pile board. Large-capacity paper feed and delivery piles [feeder pile: 620 mm (24.41"); delivery pile: 720 mm (28.35")] facilitate continuous operation to boost efficiency for large volume jobs.

▍▍▍▍ Inverter Speed Control

Stepless electronic speed control allows you to choose the optimum printing speed from 3,000 to 10,000 sheets per hour.

Feeder mechanism

Delivery mechanism
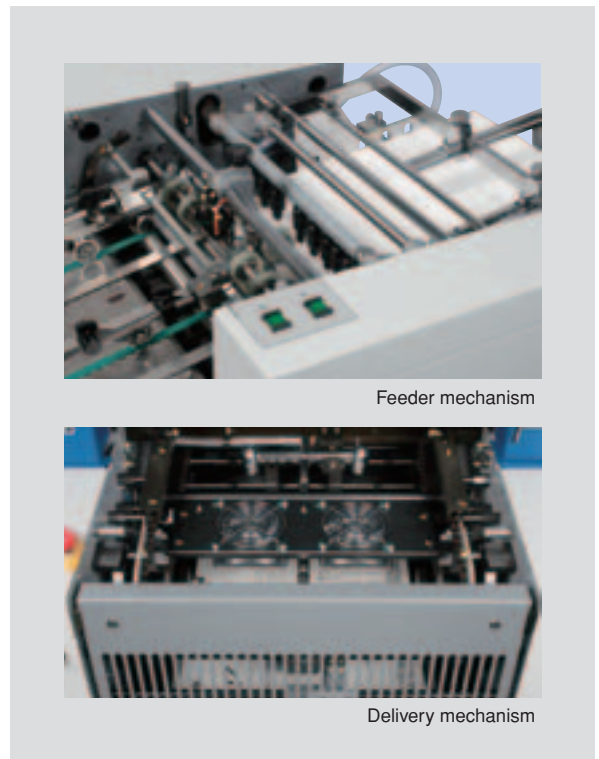
▍▍▍▍ A Variety of Safety Devices

The detection functions provided by the mechanical type double sheet detector and blanket jam detector closely monitor the paper transport status. Each of the various sections is also equipped with an emergency stop button to enable the operator to carry out printing tasks with safety.

▍▍▍▍ Centralized Oiling System

One pull of the oil pump lever lubricates all major rotating parts and bearings for reduced maintenance work.
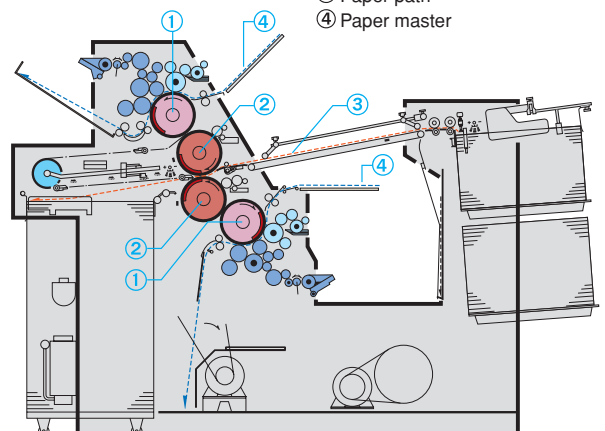

Centralized oiling system

Mechanical Layout

① Plate cylinder
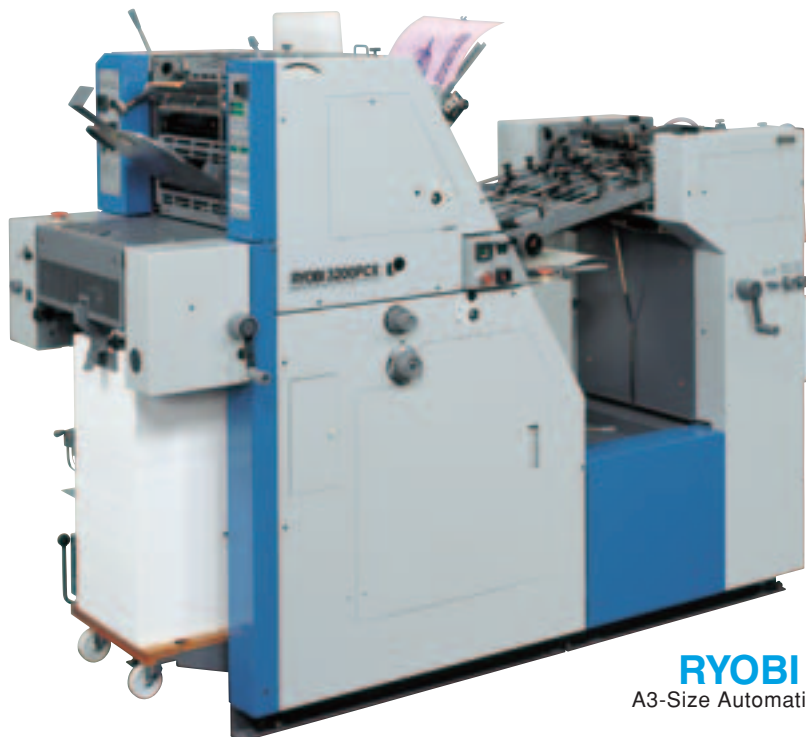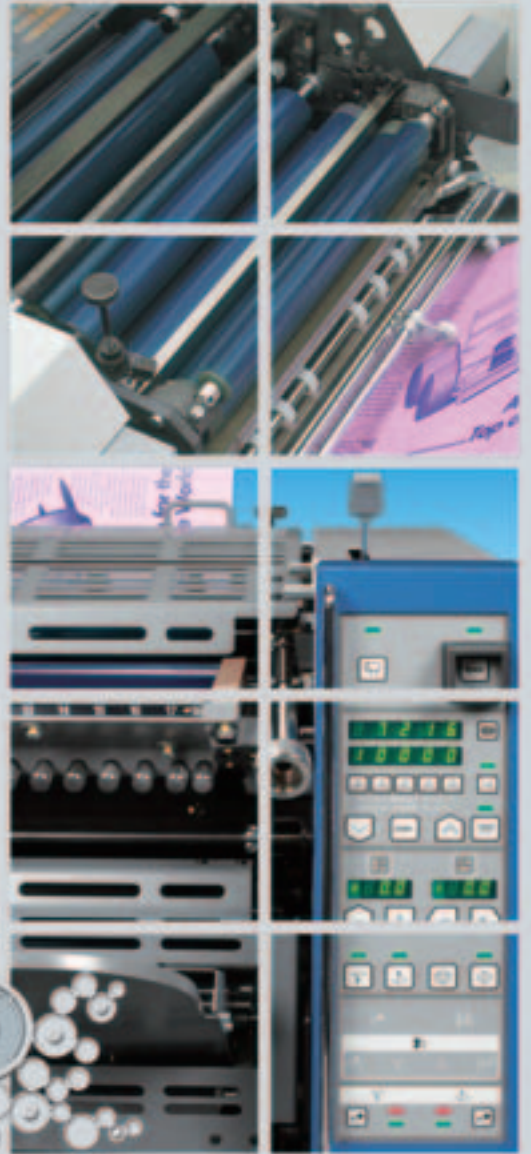② Blanket cylinder
③ Paper path
④ Paper master

Automated functions ensure easy operation.

The RYOBI 3200PCX is a high-performance automatic perfector delivering efficient blanket to blanket offset printing on up to A3-size stock.
A larger maximum print area, lever-free operation and centralized control panels on the delivery side enhance productivity.
The RYOBI 3200PCX further builds on Ryobi's extensive experience in small press design and manufacture, providing an unprecedented combination of speed, quality and ease of operation.
Perfecting has never been so easy.

RYOBI 3200PCX
A3-Size Automatic Offset Perfector

Specifications	RYOBI 3200PCX
Number of printing units	2
Max. paper size	340 x 450 mm (13.39" x 17.72")
Min. paper size	90 x 130 mm (3.54" x 5.12") When printing minimum paper size sheets,all 12 skid rollers have to be used.
Max. printing area	317 x 438 mm (12.48" x 17.24")
Paper thickness	0.04 − 0.3 mm (0.0016" − 0.012")
Printing speed [*1]	3,000 − 10,000 sheets per hour (Stepless)
Plate size	Pin bar type: 324 x 492 mm (12.76" x 19.37")(for metal plate) Straight type: 326 x 492 mm (12.83" x 19.37")(for paper master) When using the paper master tail edge holder, plate length should be from 467 to 473 mm (18.39" − 18.62")
Plate clamp systems	For metal plates Pin bar type, 25 holes, 12.7 mm (0.5") pitch For paper master type Straight edge plate clamp
Blanket type	Blanket with aluminum bars
Blanket size	319 x 494 x 1.95 mm (12.56" x 19.45" x 0.077")
Feeding system	Universal feeder
Feeder pile capacity	620 mm (24.41")
Feeder pile system	Pre-pile
Delivery system	Direct chain delivery
Delivery pile capacity	720 mm (28.35")
Number of ink rollers	12 (form rollers: 2) x 2 units
Dampening system [*2]	Crestline continuous dampening system [*1]
Number of dampening rollers	Primary unit: 5 (form roller: 1) Secondary unit: 6 (form roller: 1)
Gripper margin	8 mm (0.31")
Registration system	Push guide
Vertical image adjustment	±20 mm (0.79")
Lateral image adjustment	±2 mm (0.079")
Oiling system	Centralized oiling system
Power	Single phase: 220V 50/60Hz 10A 240V 50Hz 10.5A (Transformer is required.)
Power consumption	2kW
Motor wattage	Main drive: 1.5kW Pump: 550W
Dimensions (L x W x H)	2,160 x 930 x 1,480 mm (7'1" x 3'1" x 4'10")
Net weight [*3]	1,080 kg (2,380 lbs)

*1: The local conditions, ink, stock, type of printing plates, and required printing quality all affect the maximum printing speed.
*2: Recommended pressroom environment − Temperature: 15˚C-28˚C (59˚F-82.4˚F), Humidity: 40%-80%
*3: Weight does not include peripheral devices.
    Design and specifications are subject to change without notice.
    The specifications may differ slightly depending on the country.

Standard Equipment

- Automatic master insertion and ejection
- Automatic blanket cleaning and drying
- Continuous paper master feeding and printing
- Plate register remote control device (vertical, lateral)
- Paper feed timing delay detector
- Double sheet detector and ejector
- Blanket jam detector
- Infeed jam detector
- Delivery air blower
- Delivery fans
- Delivery table dolly automatic lowering device
- Delivery table dolly lower limit switch
- Static eliminator
- Crawl function
- Preset repeat counter
- Print counter (Total number of sheets printed)
- Machine counter (Total number of machine rotations)
- Plate counter (Total number of paper masters used)
- Oil warning lamp
- Powder spray device
- Safety covers
- Emergency stop button
- Squeeze roller
- Back guide star wheel
- Paper pile board
- Paper delivery table dolly
- Ink roller cleanup attachment
- Plunger can
- Oil pan
- Tools

Optional Equipment

- Blanket cleaning device with cleaning solution circulation system
- Tape inserter
- Multi-size paper pile board

RYOBI®

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