

Specifications

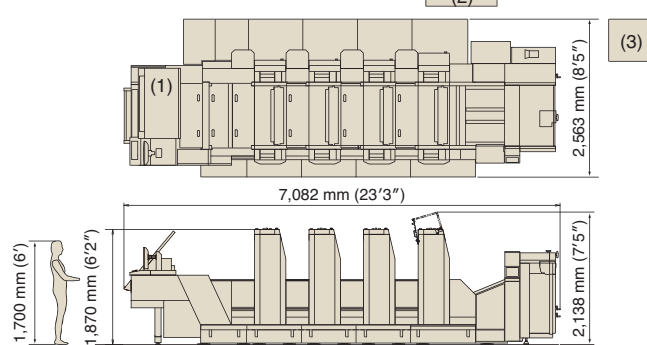
	762E / 762EP	764E / 764EP	765E / 765EP	766E / 766EP	
Number of Printing Units	2	4	5	6	
Max. Paper Size (W x L)	765 x 600 mm (30.12" x 23.62")				
Min. Paper Size (W x L)	[Straight press] 279 x 200 mm (10.98" x 7.87") [Convertible perfecting press] Straight printing: 279 x 200 mm (10.98" x 7.87") / Perfecting: 325 x 295 mm (12.80" x 11.61") When the paper vertical size is smaller than 290 mm (11.42"), the delivery auxiliary back guide must be mounted.				
Max. Printing Area	[S type] 765 x 545 mm (30.12" x 21.46") [XL type] 765 x 580 mm (30.12" x 22.83")				
Paper Thickness**	[Straight press] 0.04 - 0.6 mm (0.0016" - 0.024") [Convertible perfecting press] Straight printing: 0.04 - 0.6 mm (0.0016" - 0.024") / Perfecting: 0.04 - 0.4 mm (0.0016" - 0.016")				
Printing Speed*2	3,000 - 13,000 S.P.H. The maximum printing speed is 8,000 S.P.H. when using the delivery auxiliary back guide.				
Plate Size	[S type] Standard: 745 x 605 mm (29.33" x 23.82") / Maximum: 775 x 605 mm (30.51" x 23.82") [XL type] Standard: 745 x 635 mm (29.33" x 25") / Maximum: 775 x 635 mm (30.51" x 25") [Positioning pin pitch: 425 mm (16.73")]				
Plate Thickness	0.44 mm (0.017") (cylinder packing total)				
Blanket Size	791 x 665 x 1.95 mm (31.14" x 26.18" x 0.077") [Cylinder packing total: 2.55 mm (0.1")]				
Feeder Pile Capacity	800 mm (31.50")				
Delivery Pile Capacity	600 mm (23.62")				
Number of Rollers	Ink rollers: 18 (form rollers: 4) / unit Water rollers: 4 (form roller: 1) / unit				
Gripper Margin	10±1 mm (0.39" ±0.039")				
Diagonal Image Micro Adjustment Range	±0.2 mm (±0.008") (at max. printing area) (plate cylinder)				
Vertical Image Micro Adjustment Range	±1 mm (±0.039") (front lay), [Straight press] ±1 mm (±0.039") (plate cylinder) [Convertible perfecting press] ±2 mm (±0.079") (plate cylinder)				
Vertical Image Rough Adjustment Range	[Straight press] ±20 mm (±0.79") [Convertible perfecting press] ±250 mm (±9.84")				
Lateral Image Micro Adjustment Range	±2.5 mm (±0.098") (pull side guide), ±2 mm (±0.079") (plate cylinder)				
Electric Current	3-phase 200V 50/60Hz or other voltages				
Power Consumption	762E: 22 kW, 762EP: 25 kW	764E: 30 kW, 764EP: 33 kW	765E: 35 kW, 765EP: 38 kW	766E: 41 kW, 766EP: 44 kW	
Dimensions	(L)	762E: 5,310 mm (17'5") 762EP: 5,672 mm (19')	764E: 7,082 mm (23'3") 764EP: 7,444 mm (24'5")	765E: 7,968 mm (26'2") 765EP: 8,330 mm (27'4")	766E: 8,854 mm (29'1") 766EP: 9,216 mm (30'3")
	(W)	2,563 mm (8'5")			
	(H)	1,870 mm (6'2")			
Weight	762E: Approx. 10 t (22,050 lbs) 762EP: Approx. 11 t (24,250 lbs)	764E: Approx. 17.6 t (38,800 lbs) 764EP: Approx. 18.6 t (41,010 lbs)	765E: Approx. 21.4 t (47,180 lbs) 765EP: Approx. 22.4 t (49,380 lbs)	766E: Approx. 25.2 t (55,560 lbs) 766EP: Approx. 26.2 t (57,760 lbs)	

*1: Printable paper thickness may vary according to paper stock.

*2: Local conditions, ink, stock and printing plate types, and printing quality required will affect the maximum printing speed.

Standard equipment	Optional equipment
<ul style="list-style-type: none"> ●Rotary type stream feeder ●Pre-pile device ●Suction tape feeder board ●Tape slow-down mechanism ●Pull side guide preset system ●Side lay sensor ●Front lay suction wheel ●Double sheet detector (mechanical) ●Ultrasonic type double sheet detector ●Front lay blower ●Slewed paper detector ●Paper transfer jam defector ●Plate register remote control device ●RYOBI semiautomatic plate changer ●Automatic blanket cleaning device ●RYOBI PCS-K printing control system (includes network set for Ink Volume Setter) 	<ul style="list-style-type: none"> ●RYOBI Program Inking ●Powder spray device (manufactured by RYOBI) ●Decurling device ●Delivery suction wheel ●Delivery jam detector ●Preset repeat counter with batch function (electronic, 5-digit) ●Print counter (total number of printed sheets, non-resettable) ●Machine counter (total number of machine rotations, non-resettable) ●OK monitor ●Static eliminator (delivery section) ●Dampening solution cooling / circulation device
<ul style="list-style-type: none"> ●Impression pressure preset (includes program-controlled impression cylinder cleaning function)*3 ●Paper size preset*3 ●Nonstop feeder*3 ●Skid type paper pile board*3 ●Skid type paper pile board with nonstop feeder function*3 ●Pneumatic pull side guide*3 ●Timing checker (add-on type) ●Blower under the swing gripper*3 ●Automatic ink roller cleaning device*3 ●Hickey picker ●RYOBI-matic-D continuous dampening system with hickey removing function ●RYOBI-matic-D Remote continuous dampening system with remote ON/OFF hickey removing function ●Ink oscillating form roller (1st/2nd/3rd form rollers) ●Ink roller temperature control system*3 ●Intermediate tank for dampening solution cooling / circulation device 	<ul style="list-style-type: none"> ●Automatic dampening solution supply device (includes automatic alcohol / etching solution supply device) ●Automatic impression cylinder cleaning device*3 ●Nonstop delivery racking system ●Powder spray device (manufactured by Grafix) ●Super Blue System (for transfer drum of the convertible perfecting device) ●Tape inserter ●Inspection table light*3 ●Ink Volume Setter (for PostScript data) ●Ink Volume Setter-CIP4 (PPF) ●MIS connection software (for CIP4-JDF) ●RYOBI Print Job Manager ●RYOBI PDS-E SpetroJet(Spectrophotometer) ●IntelliTrax connecting set (compatible with EasyTrax) ●RYOBI RP780-425M high-precision register punch

Mechanical dimensions



*3: Factory installation only
Design and specifications are subject to change without notice.
Specifications may differ slightly depending on the country.

- (1) RYOBI PCS-K printing control system
- (2) Air compressor (option)
- (3) Dampening solution cooling / circulation device

Note: Figures at left are for the RYOBI 764E.
The amount of installation space required varies according to the model.
For detailed information contact your RYOBI dealer.

RYOBI®

RYOBI 760E series

762E / 762EP / 764E / 764EP / 765E / 765EP / 766E / 766EP

B2-Size Multi-Color Offset Presses



RYOBI

RYOBI LIMITED

GRAPHIC SYSTEMS DIVISION

International Sales and Marketing Section

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Order No. H5714 01 01

Printed in Japan

The most sought-after functions in a compact press High printing quality and impressive cost per formance for multi-variety small-lot printing

The RYOBI 760E series of B2-size multi-color offset presses meet the need for affordable, high-quality printing. Featuring a double-diameter cylinder configuration, advanced automatic systems, and many other features found on the higher-end RYOBI 750G series, the RYOBI 760E series provides high printing quality with outstanding cost performance. Moreover, the RYOBI PCS-K Printing Control System is built right into the press for a very space-saving design. Available from 2-color to 6-color models, as well as convertible perfecting models, and featuring the most sought-after functions in a compact press, the RYOBI 760E series meets today's needs for multi-variety small-lot printing.



The RYOBI 760E series' many features open up new business opportunities

The same basic construction as the RYOBI 750G series, known for its high printing quality

- A tandem system comprised of a double-diameter impression cylinder and double-diameter transfer drum
- Plate, blanket, and impression cylinders are arranged in a "7 o'clock" layout

Fast turnaround for multi-variety small-lot printing

- RYOBI Program Inking speeds up color tone adjustment
- Various automatic systems enable faster plate changing, paper-size presetting, and cleaning

Max. 765 x 600 mm (30.12" x 23.62") paper can be fed

- Max. printing area: [S type] 765 x 545 mm (30.12" x 21.46")
[XL type] 765 x 580 mm (30.12" x 22.83")
- The XL type allows 6-up printing of letter-size (8.5" x 11")

Space-saving design effectively utilizes printshop space

- RYOBI PCS-K printing control system is built right into the press together with a compact foot step
- 26% smaller footprint than the RYOBI 754G (type 4-A)



Photo: B2-Size 4-Color Offset Press
with convertible perfecting device
RYOBI 764EP
Model in photo is shown with optional accessories.

Minimizes Make-ready Time and Labor



RYOBI Semiautomatic Plate Changer Semi-RPC

RYOBI Semiautomatic Plate Changer Semi-RPC

The RYOBI Semiautomatic Plate Changer Semi-RPC 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. The Semi-RPC does not need the leading edge or tail edge of the plate to be bent. This automated system allows easy reuse of the stored printing plate.

Plate Register Remote Control (vertical, lateral, diagonal)

The plate register remote control device is equipped as standard. It quickly makes precise adjustments of the vertical, lateral and diagonal image position.



Plate Register Remote Control

Paper Size and Impression Pressure Presets (options)

The RYOBI 760E series allows the operator to enter preset values for paper size and thickness using the touch-panel display of the RYOBI PCS-K. Positions of the feeder head, feeder and delivery section guides as well as pull side guides can be preset. Plus, an impression pressure preset system is also available.

(Note) The pull side guide preset system comes as standard equipment. Paper size preset, and impression pressure preset systems are available as options. (The impression pressure preset system includes program-controlled impression cylinder cleaning function.)



Automatic blanket cleaning device

Automatic Cleaning Devices

The various automatic cleaning devices of the RYOBI 760E series [automatic blanket cleaning device (standard), automatic impression cylinder cleaning device (option), automatic ink roller cleaning device (option)] reduce the time and effort involved in cleaning and changing colors, reducing the burden on the operator.

The RYOBI PCS-K Printing Control System allows the operator to turn each device ON and OFF, as well as select the cleaning pattern according to the degree of cleaning required.

Automatic Convertible Perfecting Device (RYOBI 762EP / 764EP / 765EP / 766EP)

The RYOBI 762EP / 764EP / 765EP / 766EP presses are equipped with an automatic convertible perfecting device. Switching between straight printing and perfecting can be performed from the RYOBI PCS-K. The operator 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, the position of the paper tail edge suction mechanism, and the phase of the turning drum and storage drum.

(Note) Paper tail edge suction ON/OFF switching is manual depending on the paper width.

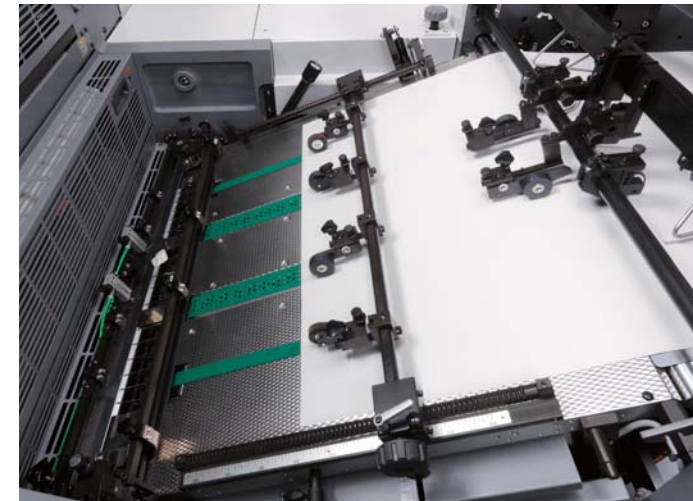


Straight printing/perfecting printing switchover screen



Automatic convertible perfecting device

Reliable Rigid Construction Ensures High Printing Quality



Suction tape feeder board

Reliable Paper Feeding Mechanism

The suction tape holds the paper securely and feeds it smoothly to the front lay. And an ultrasonic type double sheet detector is equipped as standard. An ultrasonic signal from the transmitter passes through the paper, and the attenuation rate of the ultrasonic wave is measured to detect high precision any double-sheet feeding of thick paper.

Double-Diameter Printing Mechanism

The printing unit consists of a double-diameter impression cylinder and a double-diameter transfer drum.

These cylinders, which have a large radius of curvature, transport paper with minimum flapping, providing stable paper transport even when printing on heavy stock up to 0.6 mm thickness (for straight printing).

RYOBI also utilizes cam-closed and double sprung gripper mechanisms which employ torsion bars on all gripper shafts. Achieving reliable sheet gripping, whether at low or high speeds, results in consistent registration accuracy.

Exceptional Inking Performance

Employs 18 rollers, including 4 form rollers. A single-train ink roller configuration ensures stable ink supply and excellent responsiveness for ink adjustment.



Double sprung gripper mechanism employing torsion bars

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. Starting is quick and is designed to minimize wasted sheets. Switching between integrated mode and separated mode from the touch-panel display is easy, in order to exactly match the image and characteristics.

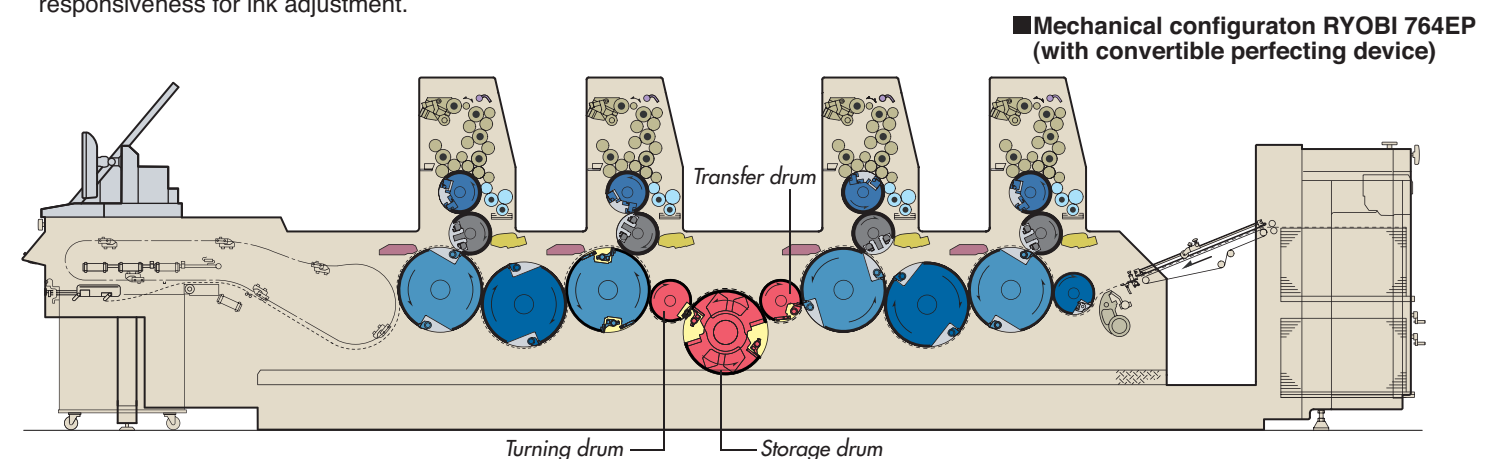
Delivery System Prevents Scratching and Smudging

Printed sheets are smoothly transported to the delivery pile, minimizing scratching and smudging during high-speed printing.

Ink Roller Temperature Control System (option)

By circulating temperature-controlled water inside the oscillating rollers and fountain rollers, roller temperature is maintained at the optimum level.

Minimum variations in ink roller temperature ensure consistent print quality, even during long print runs.



Digital Workflow for Efficient Production and Quality Management



Built-in RYOBİ PCS-K Printing Control System

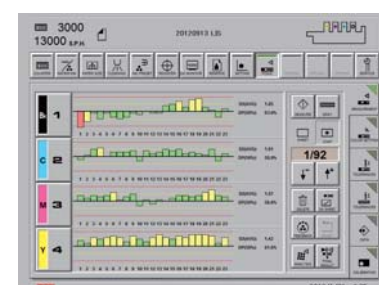
The RYOBİ PCS-K Printing Control System is built into the press as a space-saving feature. This system allows centralized control of the main operations and settings, such as ink and water volume control, printing parameter settings, fine adjustment of registration, impression pressure preset (option), and maintenance information. It also input the image area ratio data calculated from prepress data by the Ink Volume Setter (option) and Ink Volume Setter-CIP4 (PPF) (option) via network. The data can also be input with a USB flash drive.

Numerical Management of Printing Quality RYOBİ PDS-E SpectroJet (option)

After a spectrophotometer measures (manually scans) the color bar on the printed sheets, the values needed to match the OK sheet's color density are calculated. Those values are fed back to the RYOBİ PCS-K Printing Control System to control the openings of the ink fountain keys, automating the task of color matching. A polarizing filter with automatic switching is included as standard equipment. During forward scanning the polarizing filter is switched on to measure the color densities, and during reverse scanning the polarizing filter is switched off to measure the color values for high-level color management.

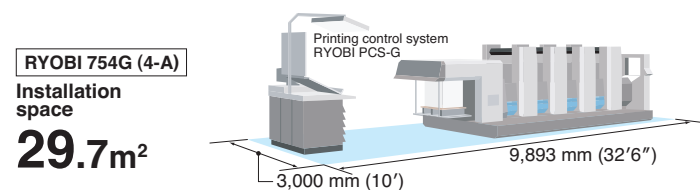


Printing density control system RYOBİ PDS-E SpectroJet

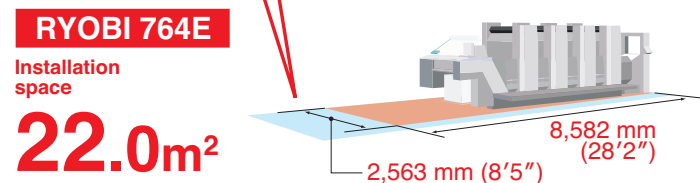


Density measurement display

Comparison of installation space: RYOBİ 754G (4-A) vs. RYOBİ 764E



Approx. 26% less space

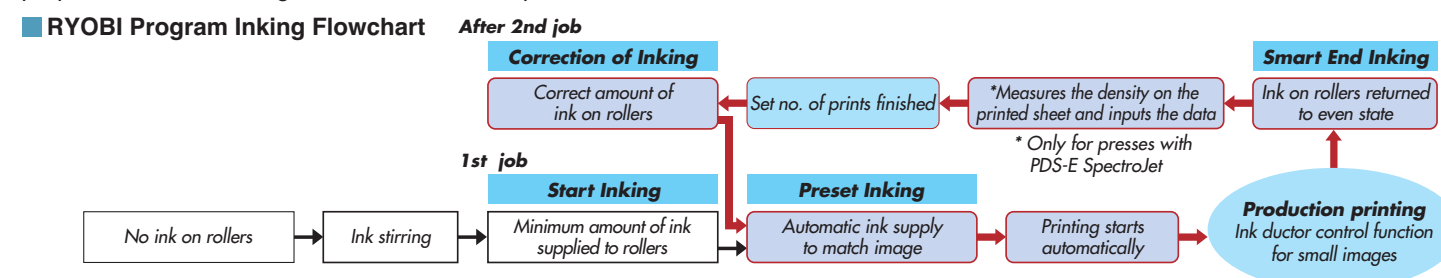


Note) Includes the work area of 1,500 m² in the delivery section.

RYOBİ Program Inking for Quick Printing Setup (built into the RYOBİ PCS-K)

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



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

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 RYOBİ PCS-K 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 prepress 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.

MIS Connection Software (for CIP4-JDF) (option) RYOBİ Print Job Manager (option)

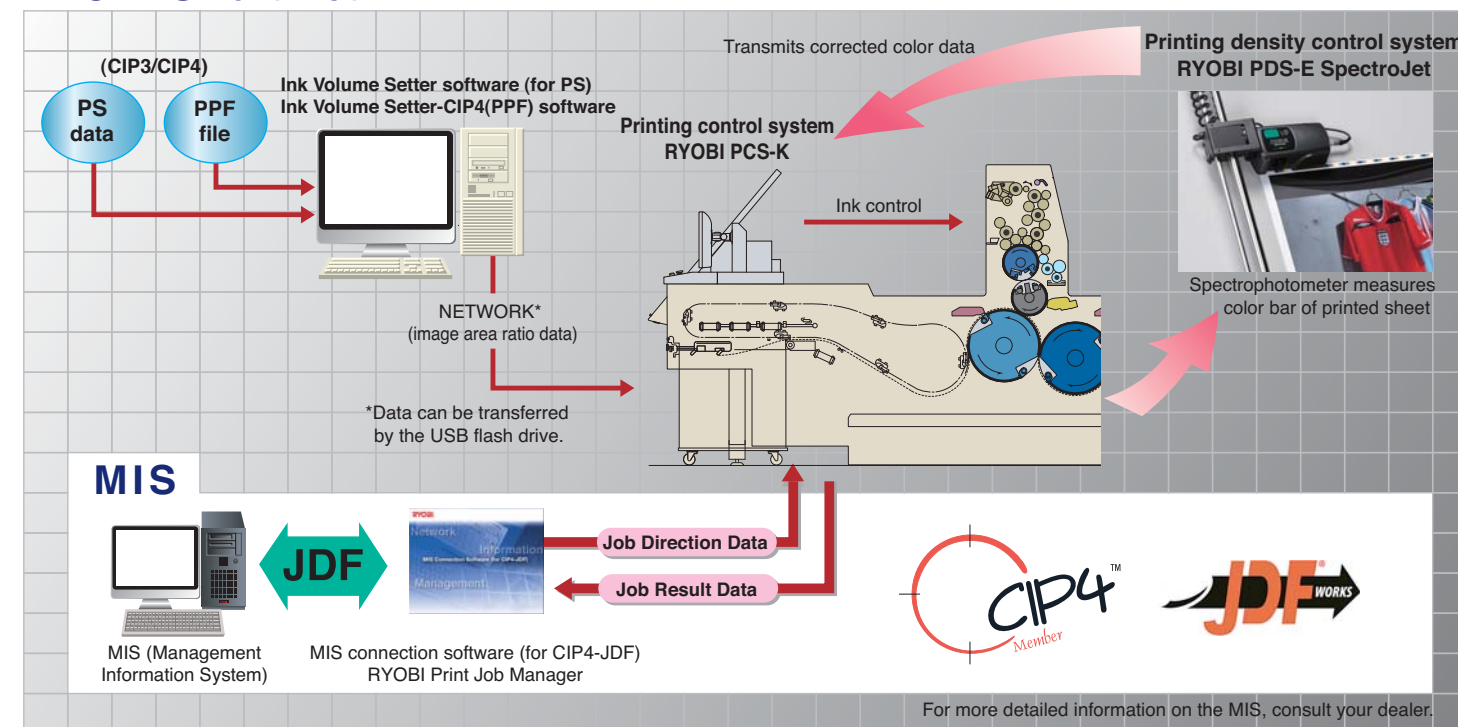
The MIS connection software links a CIP4-JDF compatible management information systems and RYOBİ printing presses to enable printing process management from the MIS (Management Information System).

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 RYOBİ PCS-K printing control system.

RYOBİ Print Job Manager Management System for Printing Presses (option) allows centralized productivity control on maximum of 30 printing presses.

RYOBİ Smart Net



For more detailed information on the MIS, consult your dealer.