

RMGT 7

B2-Size Multi-color Offset Presses

760 model

7



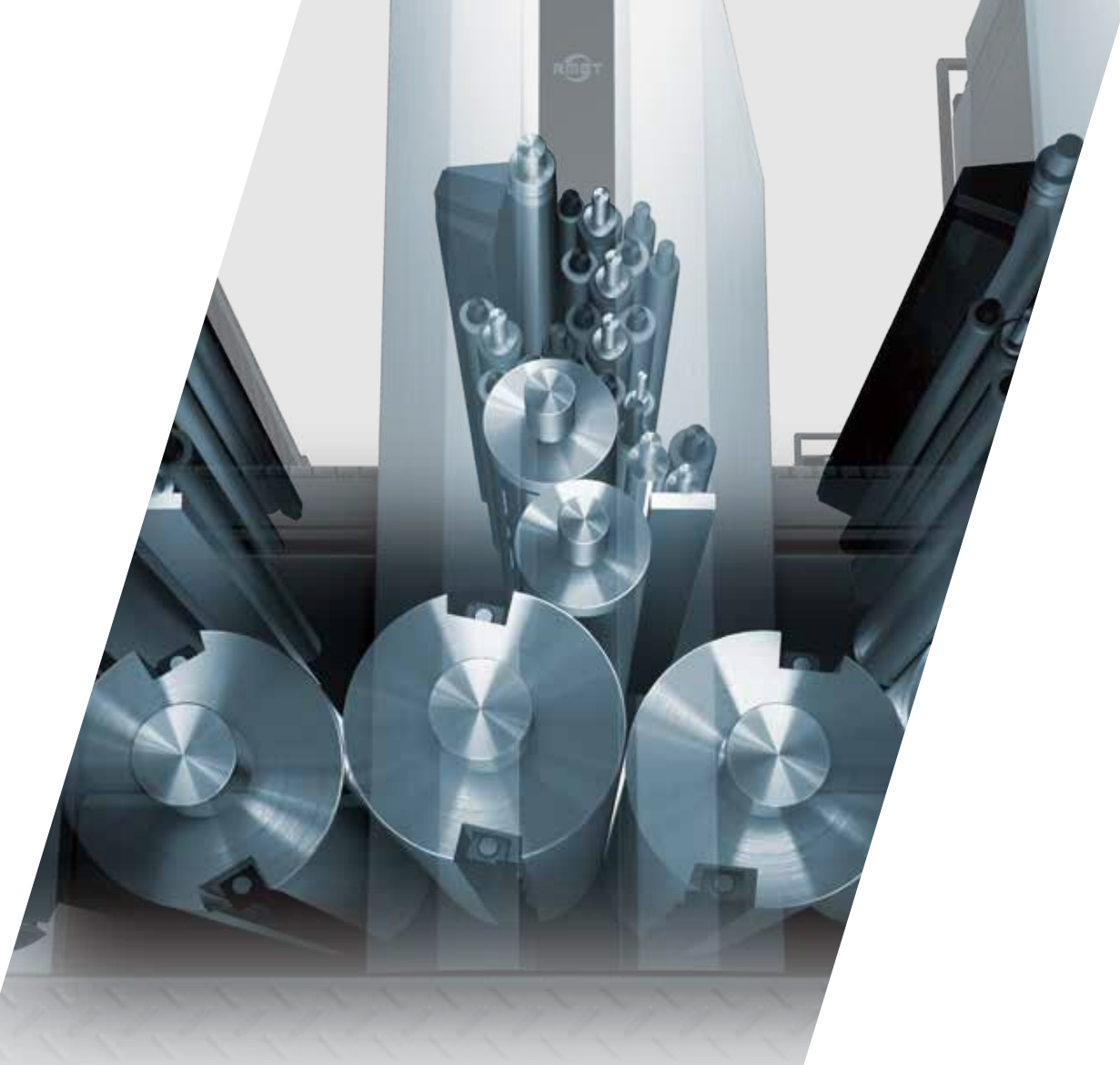
The most sought-after functions in a compact press

High printing quality and impressive cost performance for multi-variety small-lot printing

The RMGT 760 model 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 RMGT 790 model, the RMGT 760 model provides high printing quality with outstanding cost performance. Moreover, the PCS-K Printing Control System is built right into the press for a very space-saving design. Available from straight 2-color to 6-color models, as well as convertible perfecting models, and featuring the most sought-after functions in a compact press, the RMGT 760 model meets today's needs for multi-variety small-lot printing.



760PF-4 (B2-Size 4-Color Offset Press with Convertible Perfecting Device)



The same basic construction as the RMGT 790 model, known for its high printing quality

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

Fast turnaround for multi-variety small-lot printing

- Program Inking supplies the right amount of ink as soon as printing starts
- Various automatic systems enable faster plate changing, sheet-size presetting, and cleaning

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

- Max. printing area: 760ST-S (PF-S) type 545 x 765 mm (21.46" x 30.12")
760ST-XL (PF-XL) type 580 x 765 mm (22.83" x 30.12")
- The 760ST-XL (PF-XL) type allows 6-up printing of letter size (11" x 8.5")

Space-saving design effectively utilizes printshop space

- PCS-K printing control system is built right into the press together with a compact foot step
- Approx. 26% smaller footprint than the 790ST-4 (in case of 760ST-4)

Minimizes Make-ready Time and Labor



SPC Semiautomatic Plate Changing System

SPC Semiautomatic Plate Changing System

The SPC Semiautomatic Plate Changing System 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 SPC 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.

Vertical, Lateral and Diagonal Register Remote Control

Fine adjustment of vertical, lateral, and diagonal positions can be performed during print run from the PCS-K.



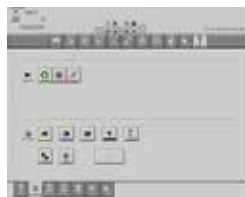
Sheet Size and Impression Pressure Presetting (options)

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

(Note) The side lay presetting comes as standard equipment. Sheet size presetting, and impression pressure presetting are available as options. (The impression pressure presetting includes simultaneous cleaning function for blanket/impression cylinders.)

Easier Roller Nip Pressure Checking Function

The one-touch nip pressure adjustment position cue function and automatic roller nip pressure checking function vastly reduce the amount of labor required during maintenance work. Nip checking is remarkably easier on the press with the nip checking mode that prints actual nip width on a single sheet pass.



Maintenance mode screen



Automatic blanket cleaning device

Automatic Cleaning Devices

The various automatic cleaning devices of the 760 model [automatic blanket cleaning device (standard), automatic ink roller cleaning device (option)] reduce the time and effort involved in cleaning and changing colors, reducing the burden on the operator. The 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 (760PF-2/760PF-4/760PF-5/760PF-6)

The 760PF-2/760PF-4/760PF-5/760PF-6 presses are equipped with an automatic convertible perfecting device. Switching between straight printing and perfecting can be performed from the PCS-K. The operator inputs the sheet size and selects a printing mode from the touch panel display. Various perfecting device settings switch automatically to match the sheet size. These include the open/close timing of the grippers on the storage cylinder and turning cylinder, the position of the vacuum hold down device, and the phase of the turning cylinder and storage cylinder.

(Note) Vacuum hold down device ON/OFF switching is manual depending on the sheet width.



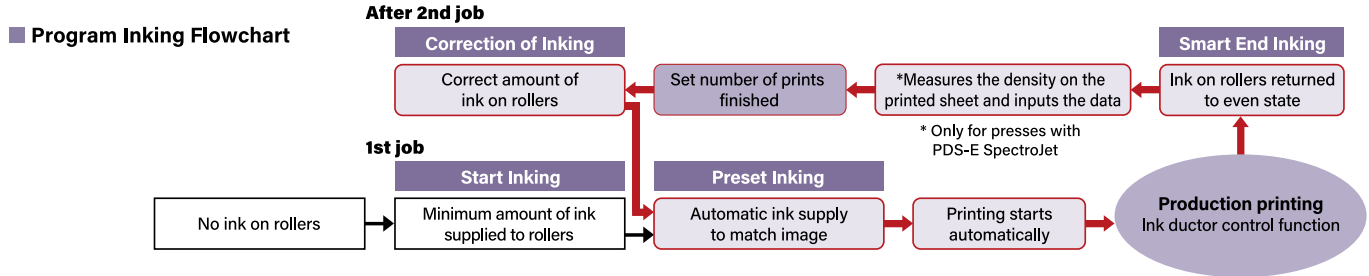
Straight printing/perfecting printing switchover screen



Automatic convertible perfecting device

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

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. After the set number of sheets have been printed, the ink on the rollers is automatically returned to an even state to move smoothly on to the next job.



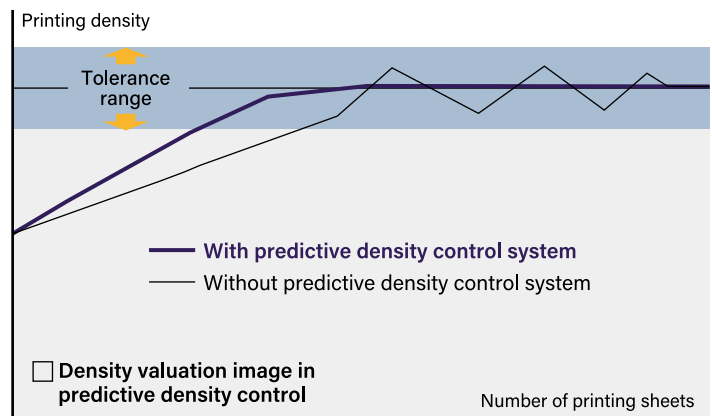
Ink Volume Setter (for PostScript data) (option) PPC Server III (for PPF) (option)

The image area ratio data is calculated by the Ink Volume Setter software using PostScript data created on either a Mac® or Windows® computer, and then converted by the PCS-K to preset the ink fountain keys. PPC Server III (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.

- Mac is a registered trademark in the United States and other countries.
- Windows is a registered trademark in the United States and other countries.

Predictive density control system*

A newly developed system for quickly achieving and maintaining the target density with minimum wasted sheets. Ink density is automatically adjusted and controlled by measuring the color bar density on printed sheets and predicting the ink density. This reduces sheet waste during job changeover and maintains stable printing density.



Base ink volume control function

Even with job changeover to a completely different print image, the amount of ink on the ink rollers is quickly increased or decreased to begin printing with less waiting time.

Base ink volume-down function: The ink roller cleanup attachment contacts the ink oscillating roller and reduces ink volume.

Base ink volume-up function: The ink ductor roller contacts the ink rollers to quickly increase the volume of ink on the rollers.

Digital Workflow for Efficient Production and Quality Management



Built-in PCS-K Printing Control System

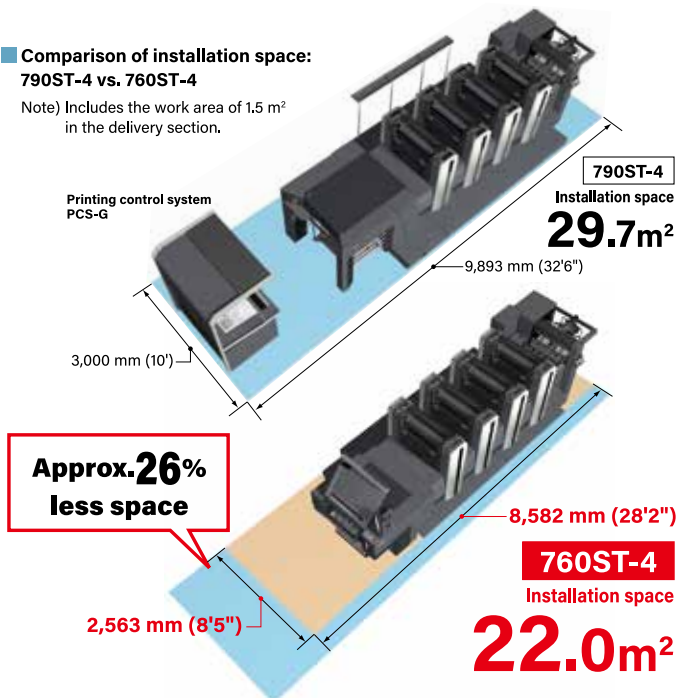
The PCS-K Printing Control System is built into the press as a space-saving feature. This system allows centralized control of the main operations and settings, such as ink and water volume control, printing parameter settings, fine adjustment of registration, impression pressure presetting (option),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

Numerical Management of Printing Quality 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 PCS-K Printing Control System to control the openings of the ink fountain keys, automating the task of color adjustments. 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.

Comparison of installation space: 790ST-4 vs. 760ST-4

Note) Includes the work area of 1.5 m² in the delivery section.



Printing density control system PDS-E SpectroJet



Density measurement screen

Reliable Rigid Construction Ensures High Printing Quality



Vacuum feeder board

Reliable Paper Feeding Mechanism

The vacuum hold-down belt 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 Cylinders Printing Mechanism

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

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).

RMGT 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

R-matic Continuous Dampening System

The R-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

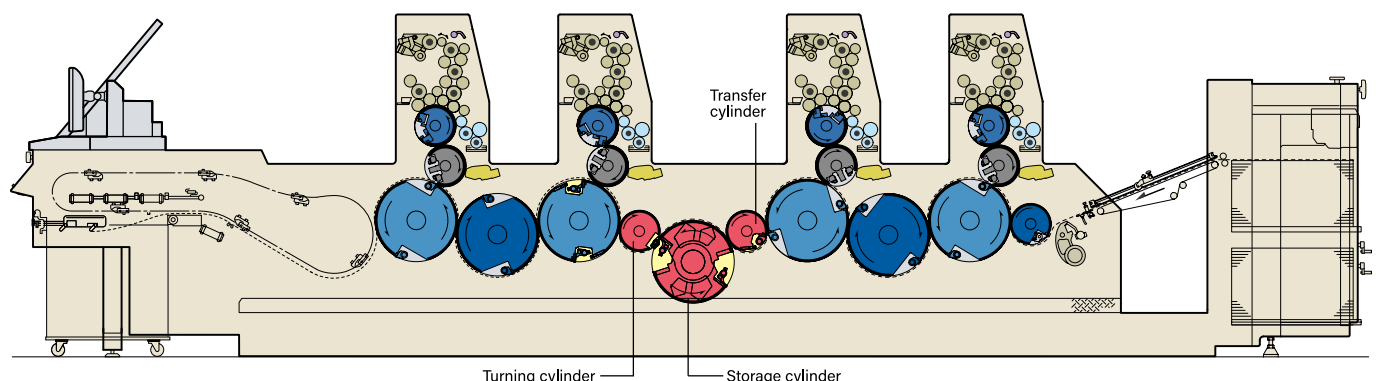
Printed sheets are smoothly transported to the delivery pile, by means of skeleton type double-diameter delivery cylinder, minimizing scratching and smudging during high-speed printing.

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.

Mechanical configuration 760PF-4 (with convertible perfecting device)



Specifications

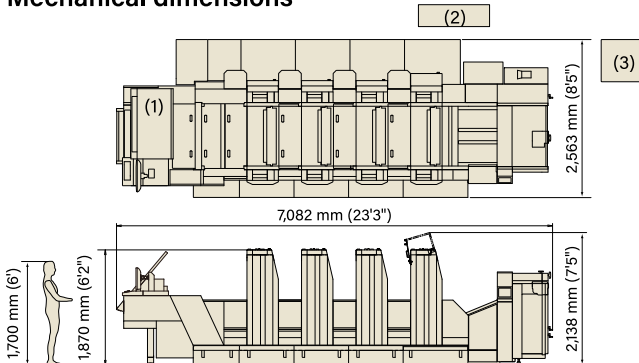
	760ST-2 / 760PF-2	760ST-4 / 760PF-4	760ST-5 / 760PF-5	760ST-6 / 760PF-6	
Number of Printing Units	2	4	5	6	
Max. Sheet Size	600 x 765 mm (23.62" x 30.12")				
Min. Sheet Size	[Straight press] 200 x 279 mm (7.87" x 10.98") [Convertible perfector] Straight printing: 200 x 279 mm (7.87" x 10.98") / Perfecting: 295 x 325 mm (11.61" x 12.80") When the sheet vertical size is smaller than 290 mm (11.42"), the delivery auxiliary back guide must be mounted.				
Max. Printing Area	[ST-S/PF-S types] 545 x 765 mm (21.46" x 30.12") [ST-XL/PF-XL types] 580 x 765 mm (22.83" x 30.12")				
Paper Thickness*1	[Straight press] 0.04 - 0.6 mm (0.0016" - 0.024") [Convertible perfector] 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	[ST-S/PF-S types] Standard: 605 x 745 mm (23.82" x 29.33") / Maximum: 605 x 775 mm (23.82" x 30.51") [ST-XL/PF-XL types] Standard: 635 x 745 mm (25" x 29.33") / Maximum: 635 x 775 mm (25" x 30.51") [Positioning pin pitch: 425 mm (16.73")]				
Plate Thickness	0.44 mm (0.017") (cylinder packing total)				
Blanket Size	665 x 791 x 1.95 mm (26.18" x 31.14" x 0.077") [Cylinder packing total: 2.55 mm (0.1")]				
Feeder Pile Capacity	930mm (36.61") (including pallet height)				
Delivery Pile Capacity	600 mm (23.62")				
Number of Rollers	Ink rollers: 18 (form rollers: 4) / unit Water rollers: 4 (form roller: 1) / unit				
Non-printing area	10±1 mm (0.39" ±0.039")				
Diagonal Image Micro Adjustment Range	±0.2 mm (±0.008") (plate cylinder) (at max. printing area)				
Vertical Image Micro Adjustment Range	±1 mm (±0.039") (front lay), [Straight press] ±1 mm (±0.039") (plate cylinder) [Convertible perfector] ±2 mm (±0.079") (plate cylinder)				
Vertical Image Rough Adjustment Range	[Straight press] ±20 mm (±0.79") [Convertible perfector] ±250 mm (±9.84")				
Lateral Image Micro Adjustment Range	±2.5 mm (±0.098") (side lay), ±2 mm (±0.079") (plate cylinder)				
Electric Current	3-phase 200V 50/60Hz or other voltages				
Power Consumption	760ST-2: 22 kW, 760PF-2: 25 kW	760ST-4: 30 kW, 760PF-4: 33 kW	760ST-5: 35 kW, 760PF-5: 38 kW	760ST-6: 41 kW, 760PF-6: 44 kW	
Dimensions	(L)	760ST-2: 5,310 mm (17'5") 760PF-2: 5,672 mm (19')	760ST-4: 7,082 mm (23'3") 760PF-4: 7,444 mm (24'5")	760ST-5: 7,968 mm (26'2") 760PF-5: 8,330 mm (27'4")	760ST-6: 8,854 mm (29'1") 760PF-6: 9,216 mm (30'3")
	(W)	2,563 mm (8'5")			
	(H)	1,870 mm (6'2")			
Weight	760ST-2: Approx.10 t (22,050 lbs) 760PF-2: Approx.11 t (24,250 lbs)	760ST-4: Approx.17.6 t (38,800 lbs) 760PF-4: Approx.18.6 t (41,010 lbs)	760ST-5: Approx.21.4 t (47,180 lbs) 760PF-5: Approx.22.4 t (49,380 lbs)	760ST-6: Approx.25.2 t (55,560 lbs) 760PF-6: 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 - Base ink volume control function - Vacuum feeder board - Feeder board sheet slow down device - Side lay presetting - Side lay detector - Front lay vacuum wheel - Mechanical double sheet detector - Ultrasonic type double sheet detector - Front lay Bernoulli device - Slew paper detector - Sheet travel jam detector - Vertical, lateral and diagonal register remote control - SPC semiautomatic plate changing system - Automatic blanket cleaning device - PCS-K printing control system 	<ul style="list-style-type: none"> - Program Inking - Maintenance mode - Powder spray (manufactured by RMGT) - De-curler - Delivery vacuum 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) - Chiller for dampening solution
	<ul style="list-style-type: none"> - Impression pressure presetting (1st/2nd/3rd form rollers) (with simultaneous cleaning function for blanket/impression cylinders)*3 - Smart Make Ready function*4 - Sheet size presetting*3 - Nonstop feeder - Pile carrier plate - Nonstop pile carrier plate*3 - Pneumatic side-lay device*3 - Timing checker (add-on type) - Blower under the swing gripper*3 - Automatic ink roller cleaning device*3 - Hickey picker - R-matic-D continuous dampening system with hickey removing function - R-matic-D remote continuous dampening system with remote ON/OFF hickey removing function - Ink oscillating form roller - Ink roller temperature control system*3 - Cushion tank for dampening solution - Automatic dampening solution supply device - Board insertion device*3 - Powder spray (manufactured by Grafix)*3 - Super Blue (for transfer cylinder of the convertible perfecting device) - Ink Volume Setter (for PostScript data) - PPC Server III (for PPF) - MIS connection software (for CIP4-JDF) - Print Job Manager - PDS-E SpetroJet (Spectrophotometer) - IntelliTrax connecting set (compatible with EasyTrax) - RP780-425M high-precision register punch

Mechanical dimensions



*3: Factory installation only

*4: Impression pressure presetting (option) is needed.

(1) PCS-K printing control system

(2) Air compressor (option)

(3) Chiller for dampening solution

Note: Figures at left are for the 760ST-4.

The amount of installation space required varies according to the model.

For detailed information contact your RMGT dealer.

Design and specifications are subject to change without notice.

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