An expanded sheet size and new features — the new A1-plus size 970 model expands the RMGT 9 series lineup and offers many features of the RMGT 10!

Offering the high cost performance of the A1-size format, the groundbreaking 920 model introduced in 2005 and the 940 model introduced in 2015 are used for a diverse range of printing. Ideal for A-series work, the 920 and 940 markedly reduce printing costs and feature an array of automation and laborsaving functions, boosting both productivity and profitability for printing companies throughout the world.

Building upon their superior performance and reliability, the newly developed RMGT 970 is an A1-plus size format press ideally positioned to meet growing demand. Capable of handling a maximum sheet size of 650 × 965 mm (max. printing area of 640 × 930 mm*1), the newly developed 970 can easily perform a wide range of printing work, including printing of multi-page materials, posters and packaging.

In addition, new features such as a benderless plate clamp; feeder and delivery section touchscreen operation panels for an enhanced user interface; and a Smart Assist Printing function*2 for non-stop operation from make-ready through to final printing enable the 970 to meet today's needs for shorter make-ready times, easier operation and higher press efficiency. The 970 enables high-speed printing of wider paper sizes, making it ideal for multi-variety and short-run printing work.

*1 For straight printing. The maximum printing area for perfecting is 630 × 930 mm.
*2 Currently under development

with the RMGT 970

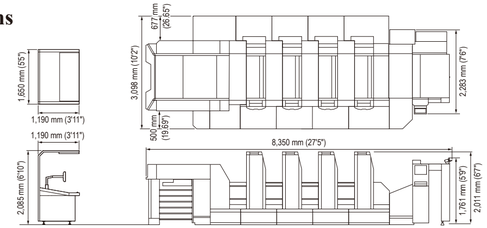
Specifications

		970ST-2/ 970PF-2	970ST-4/ 970PF-4	970ST-5/ 970PF-5	970ST-6/ 970PF-6	970PF-8	970PF-10
Number of printing units		2 (2/0, 1/1)	4(4/0, 2/2)	5 (5/0, 4/1) 5 (5/0, 3/2)	6 (6/0, 5/1) 6 (6/0, 4/2)	8 (8/0, 4/4)	10 (10/0, 5/5)
Cylinder arrangement of the convertible perfecting device		Double-, double- and single-diameter perfecting mechanism					
Max. sheet size		650 x 965 mm (25.59" × 38")					
Min. sheet size		970ST (straight press): 290 x 410 mm (11.42" × 16.14") 970PF (convertible perfector): [straight printing] 290 × 410 mm (11.42" × 16.14") [perfecting] 370 × 410 mm (14.57" × 16.14")					
Max. printing area		970ST (straight press): 640 x 930mm (25.20" × 36.61") 970PF (convertible perfector): [straight printing] 640 × 930 mm (25.20" × 36.61") [perfecting] 630 × 930 mm (24.80" × 36.61")					
Paper thickness*1		970ST (straight press): 0.04 – 0.6 mm (0.0016" – 0.024") 970PF (convertible perfector): 0.04 – 0.5 mm (0.0016" – 0.020")*2					
Max. printing speed *3		970ST (straight press): 16,000 S.P.H., 970PF (convertible perfector): 15,000 S.P.H.*2					
Plate size		700 × 945 mm (27.56" × 37.20") [positioning pin pitch: 780 mm (30.71")] Plate thickness (cylinder packing total): 0.48 mm (0.019")					
Blanket size		800 × 955 mm (31.50" × 37.60")					
Feeder/delivery pile capacity		Feeder: 1,100 mm (43.31") Delivery: 1,100 mm (43.31") (includes pallet height for both the feeder and delivery pile)					
Number of rollers		Ink rollers: 19 (form rollers: 4) / unit Water rollers: 4 (form roller: 1) / unit					
Non printing area		10 ± 1 mm (0.39" ± 0.039")					
Dimensions	Length *4	6,380 mm (20'11") / 7,051 mm (23'2")	8,350 mm (27'5") / 9,021 mm (29'7")	9,335 mm (30'8") / 10,006 mm (32'10")	10,320 mm (33'10") / 10,991 mm (36'1")	12,960 mm (42'6")	14,930 mm (49')
	Width	3,098 mm (10'2")				3,453 mm (11'4")	
	Height	2,011 mm (6'7")					

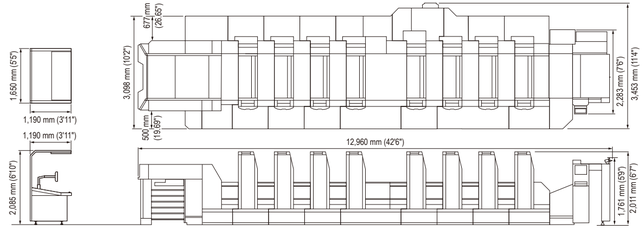
*1 Printing paper thickness may vary according to paper stock. *2 For both straight printing and perfecting.
*3 The local conditions, ink and printing plate type, and the printing quality required will affect the maximum printing speed.
*4 The indicated length is for a standard delivery type press without a coating unit and does not include peripheral devices.
Please contact an RMGT dealer or representative for detailed information on dimensions and weight for other press types.

Dimensions

970ST-4



970PF-8



Design and specifications are subject to change without notice.

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RMGT

NEW
RMGT 9
A1-plus Size Offset Presses
970 model

970ST-5 + CC + SLD
(5-color straight press with coating unit)

A1-plus size format enables a wide range of printing work new

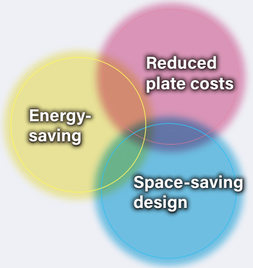
The 970 model handles a maximum sheet size of 650 × 965 mm, and perfecting is possible with sheets up to 650 mm vertically.
The maximum printing area of 640 × 930 mm (630 × 930 mm for perfecting) provides ample space for printing a color bar and PQS-D register mark*.
In addition to 8-up A4-size and letter-size printing, the 970 model can also flexibly perform a wide range of multi-up printing including packages.

* Optional

Exceptional cost performance increases profitability

Compared to B1-size (40-inch) format presses, the 970 model has significantly lower plate costs and markedly lower power consumption.
The compact space-saving design results in a more comfortable work environment and enables efficient utilization of valuable printshop space.
(Plate costs reduced by about 20%, power consumption by about 34%, and installation space by about 30%.*)

* Based on in-house research by RMGT.
Actual reductions will vary depending on the specific conditions.



Automated operation and instant drying boost productivity

● Smart Assist Printing increases press operating rates for continuous printing of short-run work new

With the newly developed Smart Assist Printing function,* you just touch the operation panel and the whole printing process—from ink presets, blanket cleaning, and plate changing to test printing, register alignment, density adjustment, and production printing—is performed fully automatically. The result is a much higher press operating rate for continuous short-run printing requiring frequent job changeover.

* Currently under development. Requires the optional PQS-D (I+C+R) with an FPC (Fully Automatic Plate Changing) or Smart-FPC (Fully Automatic Simultaneous Plate Changing) system.

● One pass instant-drying perfecting at up to 15,000 S.P.H. new

Equipped with a double-, double- and single-diameter cylinder perfecting device, convertible perfectors enable perfecting at up to 15,000 S.P.H. for higher productivity.
Plus, installing LED-UV curing units at the perfecting device and delivery section makes one pass instant-drying perfecting possible, eliminating the need to wait before proceeding to post-press processes and satisfying the demand for shorter lead times.

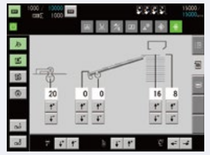

Convertible perfecting device

User-friendly

● Feeder and delivery section touchscreen panels new

Various feeder section operations, settings and checks can be performed via a touchscreen panel, including starting a print run, the counter settings, feeder air presetting*, and feed timing checker. Delivery section settings such as adjustment of the back guide and side guide as well as adjustment of the delivery fan volume are also performed using a touchscreen panel, greatly simplifying delivery section tasks. Both operation panels are equipped with error description displays and other monitoring functions to assist the press operator.

*Optional


Feeder air presetting* screen


Delivery fan volume adjustment screen

Shorter make-ready time

● Automatic plate changers equipped with a benderless plate clamp new

Three systems are available for automatic plate changing — the SPC semiautomatic plate changer (standard equipment), the FPC fully automatic plate changer (optional), and the Smart-FPC fully automatic simultaneous plate changer (optional).
All three plate-changing systems feature a benderless plate clamp that eliminates the need to bend the plates.


Smart-FPC fully automatic simultaneous plate changer

Reliable sheet feeding for consistently high printing quality

● Highly reliable sheet feeding from heavy to light stock

The 970 model is equipped with the same feeder head that has proven so successful on 1020/1050 mm format RMGT 10 presses. A unique separator mechanism ensures highly reliable sheet feeding from 0.04 to 0.6 mm* stock even during high-speed printing, making the 970 ideal for printing a wide range of jobs from fliers to packages.

* 0.5 mm for convertible perfectors.

● A double-diameter cylinder arrangement for more stable paper transfer

The printing units are comprised of double-diameter impression and transfer cylinders. The larger cylinder curvature radius ensures stable paper transfer with no flapping even when printing on stiff heavy stock or film media.


High-speed, high-performance separator

Automatic monitoring of printing status and printing quality

● Press Information Display* and Press Information Edge* for checking press operation status at the delivery section

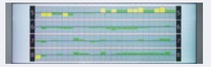
A 55-inch large screen display for the operation stand allows easy monitoring of printing quality and operating status. Real-time viewing of sheet transfer by press-mounted video cameras is available on the live-view monitor at the press operation stand.
The information display features a monitoring function to show image area data, job progress, print density measurement results, and the operating conditions of safety devices.

* Optional. The Press Information Edge is required for Smart Assist Printing and connecting to the Press Information Cloud.

● PQS-D (I+C+R)* printing quality control system: Quality inspection function + Printing density tracking function + Automatic register adjustment function

A CCD camera installed on the press captures images of the printed sheets during printing for online inspection of printing quality, eliminating the need to sample the printed sheets.
In addition to reducing paper waste and enhancing quality assurance, the PQS-D also facilitates automation of printing tasks.

* The PQS-D comprises a quality inspection function (I) as the main feature, and a color density tracking function (C) and an automatic register adjustment function (R) as options.
* Requires the Press Information Display, FPC Server III, and PDS-E SpectroDrive (or PDS-E SpectroJet).
* Smart Assist Printing requires the PQS-D (I+C+R).


Density control screen


Live view monitor


CCD camera

Expand Your Business with the RMGT 970