

Skeleton Transfer Cylinder Specification Adds Versatility to the RMGT 970 Model of A1-Plus Size Offset Presses

RYOBI MHI Graphic Technology Ltd. (RMGT, President: Katsushi Hirokawa) has announced the addition of a skeleton transfer cylinder specification to the 970 model, popular for its exceptional cost performance and advanced operator assist functions. Sale of the presses with the new specification will begin in August 2023.

The newly developed skeleton transfer cylinder specification option for the 970 model corresponds to the demands from commercial printing to light package printing.

In addition to the flexibility to handle sheet thicknesses from 0.04 to 0.8 mm, the maximum feed size of 650 x 965 mm is ideal for a wide range of multi-up printing on A1-plus size sheets, providing exceptional cost performance. Employing many of the flagship RMGT 10 series' sheet transport technologies together with a skeleton transfer cylinder, it can handle a wide variety of printing work, including packages, cards, mounting boards, and book covers.

With the launch of the skeleton transfer cylinder specification for the 970 model enabling low-cost, high-quality light package printing, RMGT is contributing to the creation of new business opportunities for printing companies.

1. Features

1) Generate new business through added flexibility for commercial printing

Handles sheet thicknesses from 0.04 to 0.8 mm for printing packages and various sales promotion materials on substrates, expanding business opportunities.

2) High flexibility

The maximum sheet size of 650 x 965 mm enables the flexibility to handle a wide variety of multi-up jobs on A1-plus size sheets.

3) Enhanced competitiveness

Low-cost light package printing is achieved thanks to approximately 20%* lower plate costs and about 65%* lower power consumption compared to an RMGT B1-size press.

* In-house comparison: actual results will vary according to operating conditions.

4) Sheet transport mechanism incorporating RMGT 10 technologies

From the feeder, register and printing unit, the press employs RMGT flagship 10 series technology to ensure stable transfer and prevent scratches for a wide range of paper thicknesses.

- Improved heavy-stock feed performance*

Changes to the feeder board section and infeed section—including the runner wheels and a front lay swing sheet guide—improve heavy-stock feed performance.

- Pneumatic side lay device with push-pull mechanism*

To increase side lay pulling force and enhance register precision for heavy-stock, the pneumatic side lay is equipped with a push-pull mechanism that simultaneously operates the side lays on both the operation side and drive side.

- Skeleton transfer cylinder*

A skeleton transfer cylinder has no cylinder surface to touch the image area, preventing scratches during paper transfer. Three air management mechanisms— an air blower before the impression cylinder, an air chamber and a venturi system —ensure reliable sheet transfer for wide range jobs of paper thicknesses.

* Including in a skeleton transfer cylinder specification.

5) Capable of high value-added printing using special colors and coating varnishes

Combining a coating unit and LED-UV/UV curing unit with 2- to 6-color printing units enables a variety of high value-added work, including chemical embossed printing using varnish as well as printing on metallized paper.

- Retractable chamber type coating unit

This model adopts the retractable chamber type coating unit, which can apply a wide selection of aqueous and UV varnish coating. When not in use, the coating unit retracts upward and a safety guard moves into position, enabling preparations for the next job to be performed while printing is in progress.

2. Specifications

	970ST-2	970ST-4	970ST-5	970ST-6
Number of printing unit* ¹	2	4	5	6
Sheet thickness * ²	0.04 - 0.8 mm (0.0016" - 0.031") [When a skeleton transfer cylinder specification (option) is adopted.]			
Max. printing speed* ³	16,000 sheets per hour			
Max. sheet size	650 x 965 mm (25.59" x 38")			
Min. sheet size	290 x 410 mm (11.42" x 16.14")			
Max. printing area	640 x 930 mm (25.20" x 36.61")			
Feeder/delivery pile capacity	1,100 mm (43.31") [The 200 mm (7.87") raised up press expands pile capacity to 1,300 mm (51.18") for both the feeder and delivery sides.]			

*1 The skeleton transfer cylinder specification for the 970 model is only available as a straight printing press.

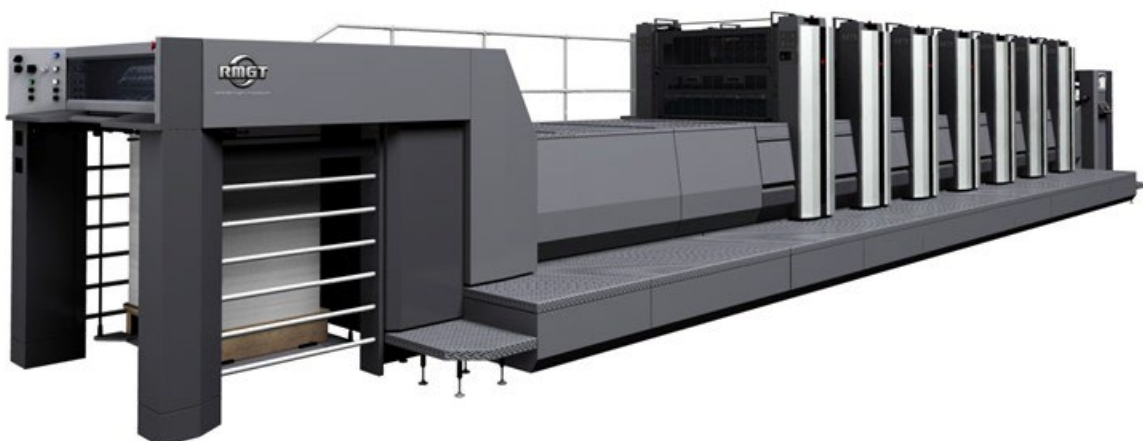
*2 Printing sheet thickness may vary according to paper stock.

*3 The local conditions, ink and printing plate type, and the printing quality required will affect the maximum printing speed.

3. Start of order*

Late in August 2023

* Please contact RMGT for separately regarding shipping schedule.



RMGT 970ST-6+CC+LD
(6-color skeleton transfer cylinder specification press
with coating unit and long delivery)