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From Commercial Printing to Package Printing, Upgraded 1020 and 1060 Models Offer Shorter Make-ready Time and Enhanced Operator Support

In January 2022, RYOBI MHI Graphic Technology Ltd. (Katsushi Hirokawa, President) introduced the 1020 and 1060 models, upgraded versions of flagship RMGT 10 series models known for their exceptional durability, printing quality, and operability.

The printing industry trend toward diversified and small lot work continues to increase while being confronted with difficulty of employing young operators and securing skilled human resources. To meet with this, RMGT has responded by developing numerous automated devices for its flagship RMGT 10 series, increasing press production rate and adding a variety of digital control systems to enable easier operation for less experienced operators and automatic printing quality management.

For the newly announced RMGT 10 series 1020 and 1060 models, RMGT developed a number of new functions offering enhanced operator support and greater productivity for both commercial and package printing. For commercial printing, there is a newly developed Smart Assist Printing system[1] for each type of press – straight (ST), tandem perfector (TP), and convertible perfector (PF) –an automatic job data sorting function[1], faster blanket cleaning, and other improvements that shorten make-ready time by up to 70%[2] compared with previous models. Smart Assist Printing enables multiple jobs to be consecutively printed fully automatically at a touch of the operating panel. Integrated with the PQS-D printing quality control system[1] that automatically performs print quality inspection, register and printing density adjustment without the need to sample printed sheets, Smart Assist Printing markedly improves the press production rate while reducing the labor required for small-lot continuous printing.

For package printing, the paper feed and delivery functions have been further improved on wide-stock-range (LX) type, and the package printing speed is significantly faster[1]. In addition to improvements that shorten make-ready time for commercial printing on ST, TP and PF types, LX type features a new retractable coating unit[1] that allows make-ready tasks for the next job to be performed while printing, shortening make-ready time for package printing by up to 40%[2] compared with previous models.

To improve both operability and accessibility, the upgraded models also feature redesigned operation panels, control buttons, and covers for the feeder and delivery sections. In addition, the 1060 models' maximum paper size has been increased from 1,050 to 1,060 mm (maximum printing width of 1,050 mm), expanding the range of work that can be performed. (1020 model remains the same format.)

RMGT is constantly improving printing quality and press performance, and providing comprehensive operator support to help customers solve any issues they may face.

*1 Option

*2 As measured by in-house staff. Results will vary according to operator experience and the printing conditions.

Main upgraded functions and features on the 1020 and 1060 Models

<Upgraded functions and features common to all types>
1. Smart Assist Printing* increases press production rates for continuous small-lot printing
   The newly developed Smart Assist Printing system enables consecutive printing of multiple jobs automatically. The series of printing processes from ink preset to blanket cleaning, plate changing, test printing, register alignment, density adjustment and production printing is performed at a touch of the operating panel, improving the press operating rate while reducing the labor required for continuous printing of short-run jobs.
   *Option

2. Automatic job data sorting*
   This feature automatically sorts jobs and puts them in the optical order according to the paper, color, due date and other parameters, based on data from the printing company's main system. This reduces the time required to change the paper stock and perform other tasks between jobs, greatly improving operating efficiency.
   *Option

3. Shorter blanket cleaning time
   By optimizing the cleaning cycle, the time required for blanket cleaning is reduced by approximately 20 seconds compared with previous models.

4. Improved operability and accessibility for feeder and delivery sections
   The feeder and delivery section operation panels feature a touch-panel display. The feeder and delivery section operation panels, control buttons and covers have all been ergonomically redesigned, improving operability and accessibility.

<Upgraded functions and features for LX type, wide-stock-range press (for package printing)>
1. High-speed package printing*
   The delivery section features a newly developed polygon type vacuum wheel for heavy stock paper. The register section is equipped with a side lay push-pull mechanism that simultaneously operates the operation and drive side side lays to increase the side lay pulling force, with a front lay swing paper guide that ensures reliable heavy stock paper feeding. Addition of these new features enable to increase the speed for package printing.
   *Option

2. Retractable coating unit*[1] enables preparation of coating varnish during printing
   The coating unit is retractable, so the coating cylinder can be swung upward when not in use, preventing marking to the printed sheets. An independent drive*[2] for the coating cylinder enables preparations for the next job, such as cleaning the coating cylinder and changing the plates, to be performed while printing, and SPC semiautomatic plate changer*[2] which enables faster plate mounting on the coating cylinder is available.
   *1 Option   *2 Option for the press with retractable coating unit

3. Shorter make-ready time for changing paper thickness*
   The preset function at the infeed section is further enhanced to adjust to the paper thickness. The leaf spring position preset function at the register section automatically switches from thin to heavy stock paper feeding speedily.
   The heavy stock paper guide rollers also automatically adjust the height to accommodate heavy stock paper feed, shortening make-ready time when changing paper thickness.
   *Option

1,020 mm format 8-color tandem perfector RMGT 1020TP-8
1,060 mm format 8-color tandem perfector RMGT 1060TP-8

1,020 mm format 4-color straight press RMGT 1020ST-4
1,060 mm format 4-color straight press RMGT 1060ST-4

1,020 mm format 6-color straight press RMGT 1020LX-6
1,060 mm format 6-color straight press RMGT 1060LX-6

1,020 mm format 8-color convertible perfector RMGT 1020PF-8
1,060 mm format 8-color convertible perfector RMGT 1060PF-8

■Scheduled start of shipping: August 2022