LITHRONE GX40RP

KOMORI CORPORATION
11-1, Azumabashi 3-chome, Sumida-ku, Tokyo 130-8666, Japan Tel: +81-3-5608-7817~19 Fax: +81-3-3624-6955
http://www.komori.com

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KOMORI
Kando : Beyond Expectations

LITHRONE GX40RP

40" Front / Reverse Multicolor Offset Printing Press

Ultimate H-UV•UV*-equipped Dedicated Double-sided Printing Press

Expanding the OffsetOnDemand World

The Lithrone GX40RP

Introduction

The latest OffsetOnDemand-compatible double-sided printing press carries on the brilliant performance of the Lithrone G Series. This is the 40-inch H-UV·UV-equipped Lithrone GX40RP dedicated double-sided offset printing press. Designed to deliver high quality, short turnaround, high speed, stability and reduced waste in double-sided printing. A new system features single-edge gripping and eliminates sheet reversal. Single-edge gripping makes the margin on the tail edge of the sheets — an unavoidable structural requirement of perfectors — completely unnecessary, enabling paper costs to be cut by minimizing the sheet size. Eliminating sheet reversal ensures stable sheet transport that is capable of handling either light or heavy stocks through the use of four double-size transfer cylinders. Front/back plate imaging is in the same direction, just as with single-sided presses, increasing efficiency in prepress.

This machine expands the OffsetOnDemand world by means of cutting-edge short makeready and powderless instant drying to accommodate very small lots and short turnarounds thanks to the KHS-AI*1 integrated start-up control system and the H-UV·UV curing system. Maximum printing speed is 18,000 sheets per hour*2. Thin sheet specification for commercial printing and cardboard specification for package printing. In addition, this press can be optionally specified with the A-APC Asynchronous Automatic Plate Changer, the PDC-SX Spectral Print Density Control SX Model, and the PQA-S Print Quality Assessment System for Sheetfed to achieve even higher levels of quality and productivity.

The Lithrone GX40RP: leading-edge technologies and know-how to achieve printing automation, standardization and innovation. A powerful platform for the new generation of printing business.

* Can be equipped with one of the following: H-UV•UV
*1 KHS-AI: Advanced Interface
*2 In the case of thin sheet, high printing speed specification

Photo: GLX-840RP
* Model in photograph includes optional specifications.

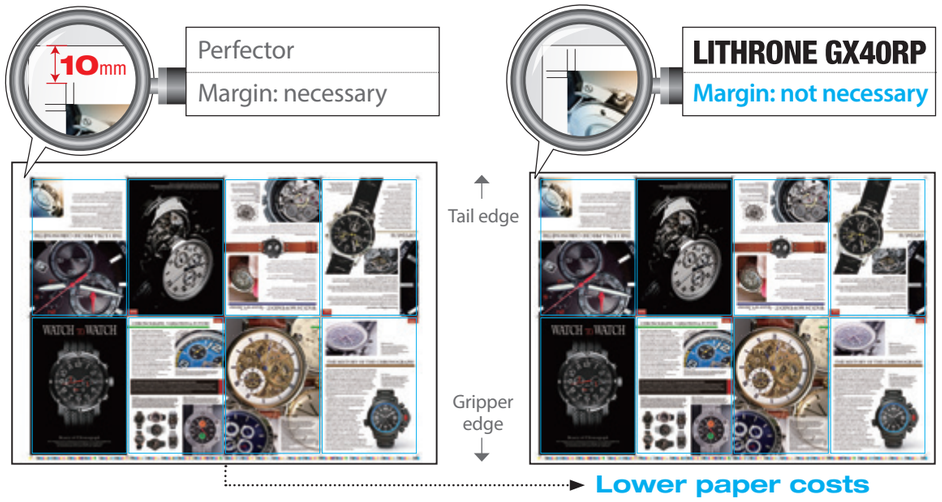
Contents

Exceptional Paper Transport Allows Smaller Sheet Sizes and Lower Costs

Double-sided printing of 8-up A4 imposition on smaller sheet size

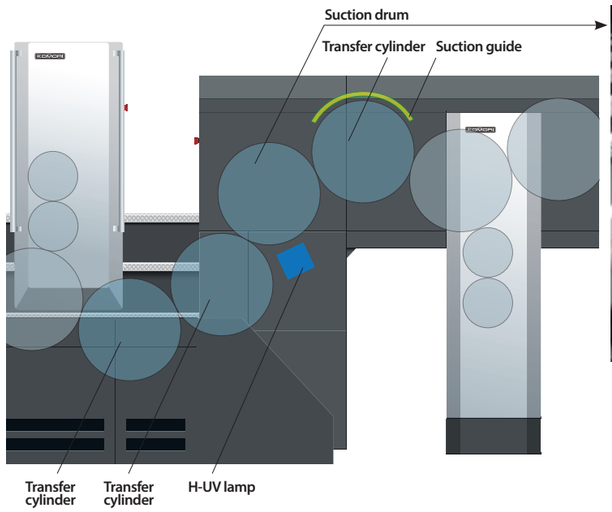
New system that uses single-edge gripping and has no sheet reversal eliminates the need for a margin on the tail edge of the sheets in double-sided printing. This means that an 8-up imposition of A4 sheets including a CMS* color bar can be printed on a smaller sheet size. Special sizes of cardboard for package printing can also be kept to the minimum.

*CMS: Color Management System



Sheet transport flexibly accommodates either light or heavy stocks

Use of a cylinder configuration of four double-size transfer cylinders and a suction guide along with a suction head delivers a system offering outstanding sheet transport performance with single-edge gripping and no sheet reversal. This system is capable of handling either light or heavy stocks and ensures high quality, stable double-sided printing. In addition, the UV or H-UV lamp by the suction drum provides instant drying of the side printed first, making impression cylinder jackets on the downstream printing units unnecessary and realizing print quality with virtually no front/back difference.



Suction drum and suction head

High Quality and Productivity with Short Makeready

H-UV·UV curing system produces high quality and short makereadies

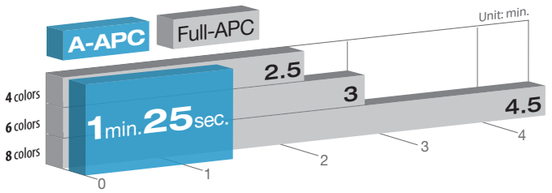
The Lithrone GX40RP is equipped with either the H-UV or UV curing system. In the case of H-UV, innovative powderless instant curing is provided by the combination of Komori's H-UV lamps and high-sensitivity UV inks. One lamp is mounted by the suction drum and one in the delivery, ensuring instant drying of both the front and back sides.
For UV, UV lamps are mounted by the suction drum and in the delivery, facilitating both package printing and special printing.
These printing systems with instant curing address several printing issues, such as the improvement of print quality by powderless drying, shorter turnaround because of the reduction of total lead time, lower operator workload and environmental impact, and higher productivity due to improvements in working efficiency.

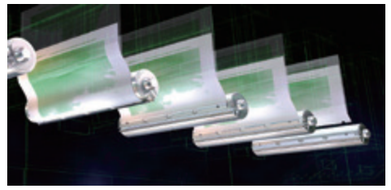
H-UV lamp by suction drum

A-APC* changes plates in all printing units in just 1 min. 25 sec.

The A-APC Asynchronous Automatic Plate Changer can finish automatic changing of all plates in just 1 min. 25 sec. regardless of the number of colors.

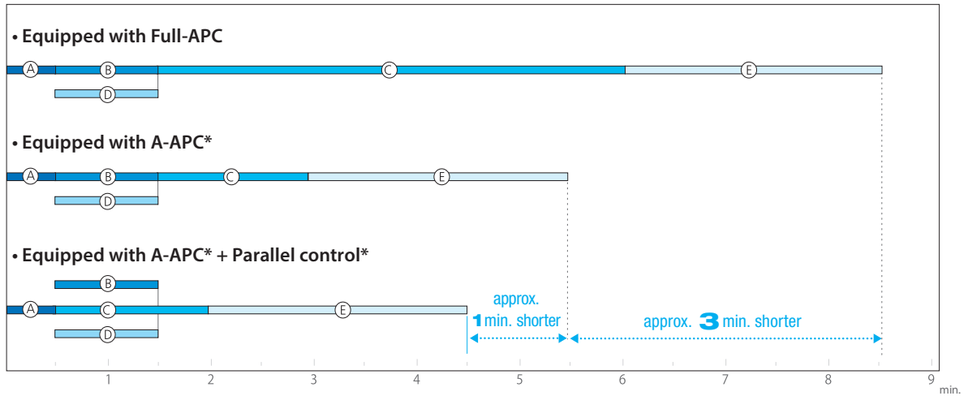
Automatic plate changing times
(Lithrone G Series, benderless)





Shorter makeready
The graph below shows a comparison of Lithrone GX40RP (Eight-color 40" Front/Reverse Offset Printing Press equipped with KHS-AI).

Ⓐ Ink removing Ⓑ Blanket washing Ⓒ Plate changing Ⓓ Pre-inking / Air presets / Register adjustment Ⓔ Initial printing / Color matching



* option

OffsetOnDemand for Short Run·Short Turnaround Performance

OffsetOnDemand is Komori's system to facilitate short runs and quick turnarounds by shortening makeready time, cutting paper waste and reducing the printing process to the absolute minimum while maintaining the high print quality and productivity of offset printing. Komori OffsetOnDemand is a new solution that employs an innovative offset-based printing system that has as its core the KHS-AI and H-UV systems and the various software components of Komori CMS Solutions. In addition, by equipping the press with the optional PDC-SX and PQA-S systems, which offer powerful support for digitizing print quality and high-level quality control, further optimization of printing processes and breakthrough improvements in productivity can be achieved.

KHS-AI (Advanced Interface)

Shorter changeovers, reduced paper waste and higher productivity

KHS is a productivity enhancement system that facilitates short makereadies by means of quick register adjustment and color matching. A further evolution of the system, KHS-AI contributes to shorter changeover times, reduced paper loss and less press downtime by means of a self-learning function that optimizes various preset data as well as air and register preset functions that ensure stable sheet feeding and delivery. The system includes a self-diagnostic function for troubleshooting.

KHS-AI

PDC Series (Print Density Control System Series)

Contributes to shorter changeovers, reduced paper waste and print standardization

The PDC Series digitizes and automates color on printed sheets that was previously adjusted and managed by the subjective sense of the operator.

- **PDC-SX**
  Multifunction high-end model that adds automatic registration function
- **PDC-SG**
  High cost performance model for color management

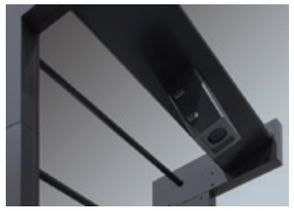
PDC-SX

PQA Series (Print Quality Assessment System Series)

High level color control by means of in-line print quality inspection

The PQA Series performs the checking for defective sheets previously done by regular sampling and visual checking by the operator and provides high level quality control by means of in-line inspection.

- **PQA-S V5**
  High precision in-line print quality inspection system
  Inspection/color control model: print quality inspection + color control
  All-in-one model: print quality inspection + color control + automatic register adjustment
- **PQA-S SG**
  High cost performance model for color control



PQA-S V5

KID (Komori Info-Service Display)

Support system with optimized information presentation

KID is an operation support system that provides information needed by the operator at just the right time in an easy-to-understand format. Supporting multifunctional, complex printing systems, KID enables high productivity by contributing to quick, accurate decisions by the operator. Information from KHS-AI, PDC Series and PQA Series can, of course, be displayed on KID.

KID

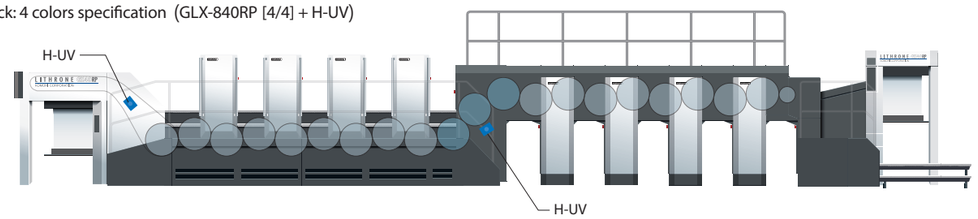
* Above lineup includes options and selected specifications.
* Restrictions apply to presses on which these products can be equipped and combinations of models and functions.

Custom Lineup

LITHRONE GX40RP Standard Specification (40" Front/Reverse Multicolor Offset Printing Press)

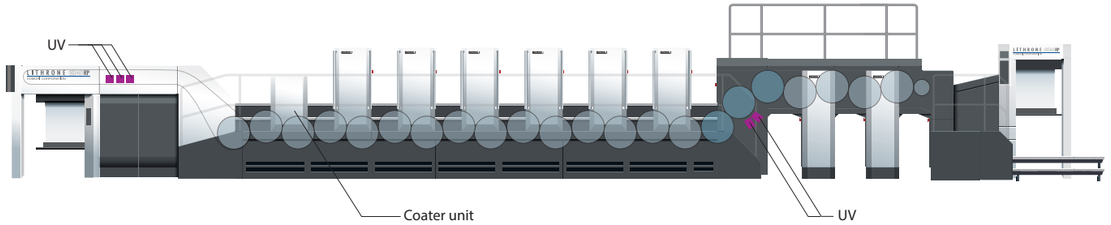
Thin sheet specification for commercial printing and publishing

Front: 4 colors/back: 4 colors specification (GLX-840RP [4/4] + H-UV)



Cardboard specification for package printing

Front: 6 colors and coater/back: 2 colors specification (GLX-840RP [6/2] + C + UV + Extended Delivery)



Specifications

LITHRONE GX40RP Specifications (40" Front/Reverse Multicolor Offset Printing Press)

Model			Thin sheet, high printing speed specification		Thin sheet standard specification		Thick sheet specification	
			GLX-840RP	GLX-1040RP	GLX-840RP	GLX-1040RP	GLX-740RP+C	GLX-840RP+C
Number of colors			4 × 4	5 × 5	4 × 4	5 × 5	6 × 1	6 × 2
Max. printing speed		sph	18,000		16,500		16,500	
Max. sheet size		mm (in.)	750 × 1,050 ($29^{11}/_{32} \times 41^{11}/_{32}$)		720 × 1,030 ($28^{11}/_{32} \times 40^{9}/_{16}$)		750 × 1,050 ($29^{11}/_{32} \times 41^{11}/_{32}$)	
Min. sheet size		mm (in.)	360 × 520 ($14^{3}/_{16} \times 20^{15}/_{32}$)					
Max. printing area		mm (in.)	740 × 1,040 ($29^{1}/_{8} \times 40^{15}/_{16}$)		710 × 1,020 ($27^{15}/_{16} \times 40^{5}/_{32}$)		740 × 1,040 ($29^{1}/_{8} \times 40^{15}/_{16}$)	
Sheet thickness range		mm (in.)	0.04 ~ 0.5 (0.0016 - 0.0197)				0.2 ~ 0.8 (0.0079 - 0.0315)	
Plate size		mm (in.)	811 × 1,055 ($31^{15}/_{16} \times 41^{17}/_{32}$)		800 × 1,030 ($31^{1}/_{2} \times 40^{9}/_{16}$)		811 × 1,055 ($31^{15}/_{16} \times 41^{17}/_{32}$)	
Blanket size		mm (in.)	935 × 1,060 ($36^{3}/_{4} \times 41^{23}/_{32}$) including aluminum bar		920 × 1,040 ($36^{7}/_{32} \times 40^{15}/_{16}$) including aluminum bar		935 × 1,060 ($36^{3}/_{4} \times 41^{23}/_{32}$) including aluminum bar	
Feeder pile height		mm (in.)	1,850 ($72^{27}/_{32}$)					
Delivery pile height		mm (in.)	1,450 ($57^{3}/_{32}$)					
Dimensions	Length (L)	mm (ft.)	20,146 (66'1")	22,504 (73'10")	20,146(66'1")	22,504(73'10")	21,686(71'9")	23,048(75'7")
	Width (W)	mm (ft.)	4,416 (14'6") [5,610 (18'5") with blower cabinet]					
	Height (H)	mm (ft.)	3,265 (10'9")					

* The above specifications require one of the following: H-UV•UV
* Total length of the thick sheet specification press includes the coater and extended delivery.
* Length includes the feeder/delivery steps and the operation stand.
* Maximum printing speed is subject to change depending on printing conditions.
* Performance and numbers may differ from specifications herein, and specifications may also be modified for product improvement

Note: