

LITHRONE G26
G29

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JQA - QM3657
JQA - EM3213
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GL-26/29 en JPN 16P M11 2 Feb.2019 02K MP

KOMORI

LITHRONE G26 G29

Strategic Partner for the Next Stage of Business

Lithrone G26/G29: Advanced Functions in Optimal Form

Introduction

Komori relentlessly seeks new possibilities in printing. Now the machine that conquered the world with its high performance is reborn as the Lithrone G Series. The pinnacle machine meeting complex next-generation printing needs. The newly developed Lithrone G26/G29 sheetfed offset press.

Loaded with advanced functions combining outstanding technology and Komori know-how, this press offers outstanding print quality and productivity, ease of use, maintainability and environmental considerations such as power and materials saving. Maximum printing speed of 16,500 sph with superb high-speed stability even on heavy stock. Ensuring the high print quality that is a perfect match for UV printing*, which is in increasing demand. Moreover, equipped with the latest systems and automatic devices, the press offers short makeready and reduced total lead time while flexibly meeting demand for a range of high added value printing.

In mature markets, the Lithrone G26/G29 reduces job turnaround time and paper waste and creates added value, which are directly linked to customer profit. This extraordinary value makes the Lithrone G26/G29 the strategic partner for the next stage of business.

* UV printing: H-UV, H-UV L (LED) and UV compatible



Photo: GL-529+C
(H-UV-equipped five-color 29" sheetfed offset press with coater and PQA-S V5 Print Quality Assessment System)
Model in photo includes options.

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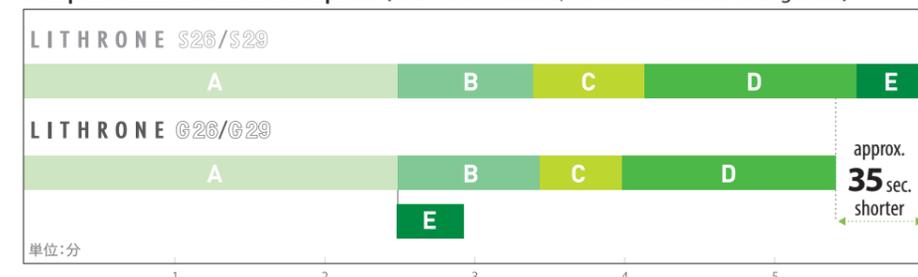
Ultimate Job Changeover Flow

Meeting the needs of small lot and short turnaround production is the most important issue in markets where on-demand printing is common. The Lithrone G26/G29 is a nimble machine capable of high added value printing. Loaded with automatic devices and systems that allow the press to meet the printing needs of a diverse market with high-level print quality. In addition to the awesome short makeready performance enabled by advanced Komori technology, the press provides a 12,000 sph high-speed print start-up and a 16,500 sph maximum printing speed. The Full-APC Fully Automatic Plate Changer changes four plates in about 2 minutes 30 seconds. Also, blanket washing and impression cylinder and ink roller cleaning are all completed automatically at just the touch of a button by the operator. The Lithrone G26/G29 possesses the functionality and versatility to meet ever-increasing small lot and short turnaround needs and significantly improves productivity and profitability.

Ultimate job changeover flow

Job changeover time can be significantly reduced by equipping the press with the latest systems, such as the KHS-AI integrated control system, the PDC Series* color management system and the PQA Series* print quality inspection system. On runs of 200 sheets, for example, the time from the end of one job to the start of the next job is just about 5 minutes 30 seconds. Job changeover performance that finishes 10 jobs (of 200 sheets) in one hour yields tremendous productivity.

Comparison with conventional press (four-color machine, no sheet thickness changeover)



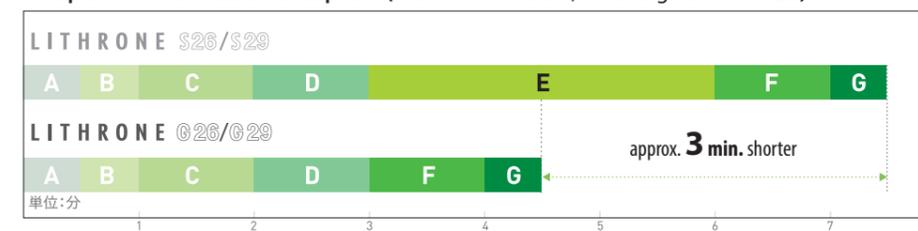
A-Plate changing, paper size setting and Image data setting B-Preinking and startup printing 30 sheets C-Register adjustment and color matching D-Production printing 200 sheets, ink removing and rundown E-Blanket washing

Job changeover flow when switching from light to heavy stock

Sheet thickness range of 0.04–0.6 mm*. Sheet thickness changeover is a simple, one-touch operation with the sheet thickness preset function. Further, no gripper pad is used, so gripper pad adjustment is unnecessary, significantly shortening changeover time.

* 0.06–0.8 sheet thickness range available by optional specification.
(Gripper pad adjustment necessary for sheet thickness of 0.5 mm or more.)

Comparison with conventional press (four-color machine, no change of sheet size)



A-Sucker adjustment B-Double sheet detection C-Brush wheel adjustment D-A cylinder gripper adjustment E-Transfer cylinder gripper pad adjustment F-Paper guide on impression cylinder adjustment G-B-I printing pressure adjustment

• Figures show Komori measurements under specific conditions. No warranty is implied.
* Option

Short Makeready for Small Lots and Short Turnarounds

Full-APC* (Fully Automatic Plate Changer)

The new Full-APC completes changing of four plates in just 2 minutes 30 seconds. The bender-less clamping system used by Full-APC requires no bending of the plate tail or plate, making plate preparation more efficient. Also, the use of a flat clamp improves register accuracy.



Semi-APC* (Semi-Automatic Plate Changer)

Short platechanging cycle improves makeready time and productivity.



Automatic Cleaning Systems

Efficient automatic cleaning is performed under an automatic control program. The use of a pre-soaked cloth with high cleansing performance for blanket washing and impression cylinder cleaning not only shortens cleaning time but also cuts cloth consumption and contributes to a better environment. All of these function together automatically, dramatically shortening total print setup time.



Automatic ink roller cleaning*



Automatic blanket washing*



Automatic impression cylinder cleaning*

* Option

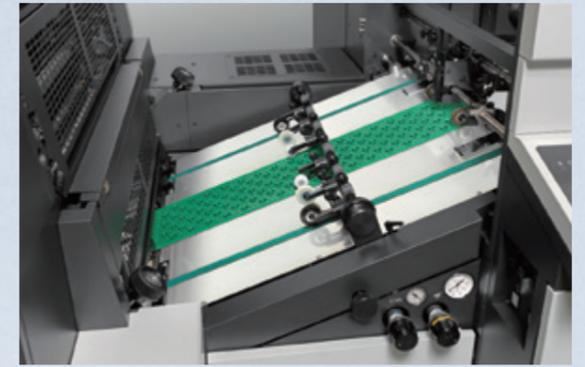


Agile Half-size Press for the Digital Age

Komori is the press manufacturer long committed to the combination of offset and digital as well as the development of new technologies and products for the evolving printing environment. Packed with Komori know-how, technology and systems, the Lithrone G26/G29 offset press is perfect for the digital age. An agile machine with very short makeready and quick setup, the Lithrone G26/G29 delivers extraordinary cost performance regardless of run length. Performance features improved sheet feeding thanks to a new feeder board design and improved print quality due to an enhanced Komorimatic dampening system. In addition, expanded work potential, including high added value printing, by adoption of special printing specifications such as for lenticular and card printing. Ultimate short run and quick turnaround performance with high print quality, productivity and efficiency through the combination of various advanced systems.

Suction tape feeder board

Improved ease operation and stable feeding even in high speed operation.



Feeder

Sucker box designed for stable high speed feeding and easy-to-use operation panel positioned near the feeder.



Photo: GL-529
(Five-color 29" sheetfed offset press)
Model in photo includes options.



Quality and Reliability in an Eco-friendly and Economical Innovative UV Curing System

H-UV / H-UV L (LED) — Innovative UV Curing System

H-UV*

The Komori H-UV System is an innovative UV curing system that uses a UV lamp developed with Komori know-how and high-sensitivity UV ink. With just one lamp mounted in the delivery, this system offers high print quality and reliability as well as excellent economic and eco-friendly performance.

H-UV L (LED)*

The H-UV L (LED) version improves printing efficiency by further reducing power consumption and enabling instant ON/OFF of the LED lamp. In addition, the long service life of the LED module reduces the maintenance load.

Advantages of UV Curing System

Shorter Total Turnaround Time

Extremely effective in shortening the time from receipt of materials to delivery.

Improved Quality due to Powderless Operation

None of the troubles associated with the scattering of powder granules and much easier postpress.

Reduction of Stock Space

The stock space necessary to accommodate the increasing number of short runs of varied items can be reduced.

Elimination of Drydown

Simple color determination, so printing with client in attendance and production printing are easier.

Eco-friendly

Environmentally Friendly

Contributes tremendously to a better environment inside the printing plant because it does not discharge ozone, does not use powder and is nearly odorless.

Effective Space Utilization

Installation space is minimal and no area is needed to place printed items that have not yet dried.

High Efficiency with Komori Total Support

Komori total support helps maintain high print quality, reduction of common problems and reduced costs since all K-Supply brand consumables are supplied by Komori. For quality control, it is essential to adjust machine conditions to meet changes in the environment and variations due to aging. Komori uses its know-how as a press manufacturer to ensure quality control by not only supplying materials but also through recommending and providing machine maintenance.

KG-911/KG-914 — The Ideal High Performance Ink for H-UV Printing

KG-911 H-UV / KG-914 H-UV L (LED) Ink is the ideal Komori standard ink for H-UV printing that was developed with the know-how gained through the sale of H-UV systems.

Main Features

- ① Beneficial in preventing cracking during folding.
- ② Ink misting has been reduced, ensuring clean conditions.
- ③ Paper peeling and edge picking are constrained.
- ④ The problem of ink backing away from the fountain roller in long runs has been mitigated.
- ⑤ Sharp dot shapes and minimal feathering.

* Option

Short-Run and Fast-Turnaround Printing

Komori Print Management Solutions dramatically improves productivity through optimization of the printing environment and objectively analyzing print quality. KHS-AI is the system handling overall control of the printing process; PDC series checks and adjusts print quality; and PQA series continuous inspection features maintain quality throughout the run, continuously supporting operator tasks. By utilizing KHS-AI, PDC and PQA together, high-quality prints can be continuously and reliably produced in less time than ever before.



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-SV5
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

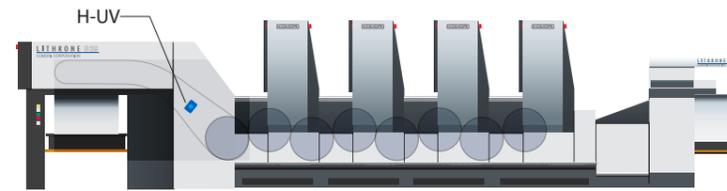
* Above lineup includes options and selected specifications.

* Restrictions apply to presses on which these products can be equipped and combinations of models and functions.

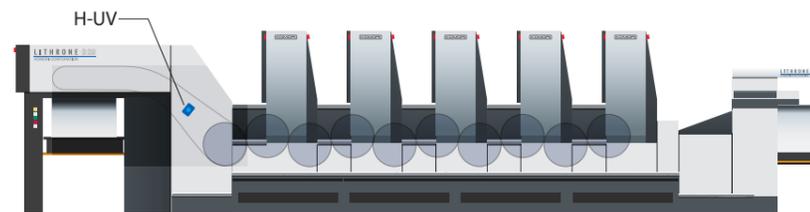
Custom Configurations and Lineup

LITHRONE G26/G29 Configurations

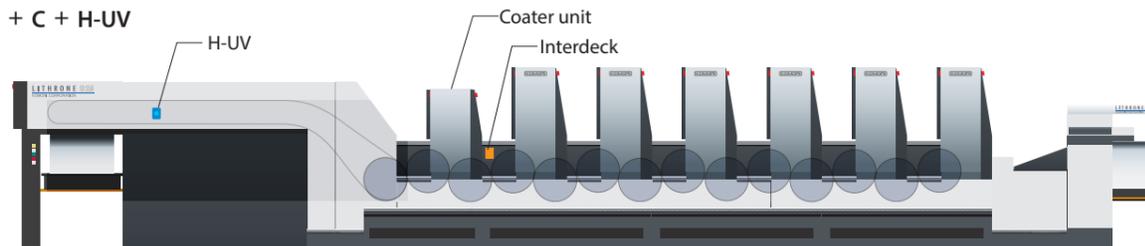
GL-429 + H-UV



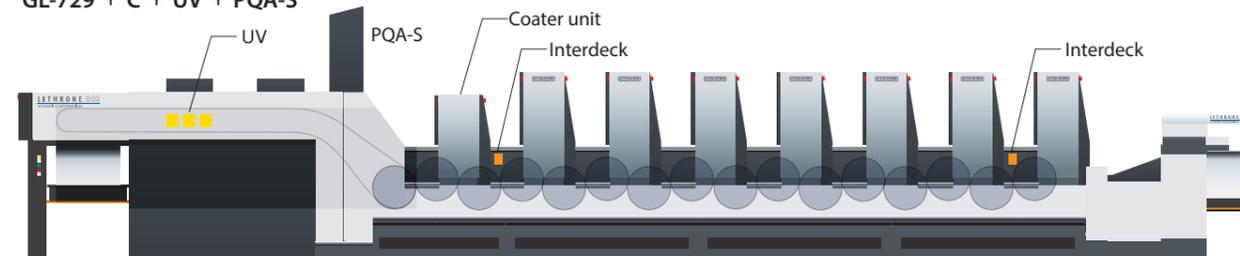
GL-529 + H-UV



GL-629 + C + H-UV



GL-729 + C + UV + PQA-S



Specifications

LITHRONE G26 (26-inch offset printing press) specifications

| Model | GL-226 | GL-426 | GL-526 | GL-626 | GL-726 | GL-826 | | |
|-----------------------|----------|----------|--|---------------|-------------|---------------|---------------|----------------|
| Number of colors | 2 | 4 | 5 | 6 | 7 | 8 | | |
| Max. printing speed | sph | | 16,500 | | | | | |
| Max. sheet size | mm (in.) | | 480 × 660 (18 ²⁹ / ₃₂ × 25 ³¹ / ₃₂) | | | | | |
| Min. sheet size | mm (in.) | | 257 × 364 (10 ¹ / ₈ × 14 ¹¹ / ₃₂) : option 200 × 280 (7 ⁷ / ₈ × 11 ¹ / ₃₂) | | | | | |
| Max. printing area | mm (in.) | | 470 × 650 (18 ¹ / ₂ × 25 ¹⁹ / ₃₂) | | | | | |
| Sheet thickness range | mm (in.) | | 0.04~0.6 (0.0016~0.024) : option 0.06~0.8 (0.0024~0.032) [Gripper pad adjustment necessary for 0.5 mm or more] | | | | | |
| Plate size | mm (in.) | | 560 × 670 (22 ¹ / ₁₆ × 26 ³ / ₈) | | | | | |
| Blanket size | mm (in.) | | 628 × 680 (24 ²³ / ₃₂ × 26 ²⁵ / ₃₂) including aluminum bar | | | | | |
| Feeder pile height | mm (in.) | | 800 (31 ¹ / ₂) | | | | | |
| Delivery pile height | mm (in.) | | 900 (35 ⁷ / ₁₆) | | | | | |
| Dim. | Length | mm (ft.) | 5,650 (18'6") | 7,380 (24'3") | 8,240 (27') | 9,100 (29'9") | 9,970 (32'8") | 10,830 (35'6") |
| | Width | mm (ft.) | 2,680 (8'10") | | | | | |
| | Height | mm (ft.) | 1,780 (5'10") [2,090 (6'10") : cover open] | | | | | |

LITHRONE G29 (29-inch offset printing press) specifications

| Model | GL-229 | GL-429 | GL-529 | GL-629 | GL-729 | GL-829 | | |
|-----------------------|----------|----------|--|---------------|-------------|---------------|---------------|----------------|
| Number of colors | 2 | 4 | 5 | 6 | 7 | 8 | | |
| Max. printing speed | sph | | 16,500 | | | | | |
| Max. sheet size | mm (in.) | | 530 × 750 (20 ⁷ / ₈ × 29 ¹⁷ / ₃₂) | | | | | |
| Min. sheet size | mm (in.) | | 257 × 364 (10 ¹ / ₈ × 14 ¹¹ / ₃₂) : option 200 × 280 (7 ⁷ / ₈ × 11 ¹ / ₃₂) | | | | | |
| Max. printing area | mm (in.) | | 520 × 740 (20 ¹⁵ / ₃₂ × 29 ¹ / ₈) | | | | | |
| Sheet thickness range | mm (in.) | | 0.04~0.6 (0.0016~0.024) : option 0.06~0.8 (0.0024~0.032) [Gripper pad adjustment necessary for 0.5 mm or more] | | | | | |
| Plate size | mm (in.) | | 605 × 760 (23 ¹³ / ₁₆ × 29 ²⁹ / ₃₂) | | | | | |
| Blanket size | mm (in.) | | 678 × 770 (26 ¹¹ / ₁₆ × 30 ⁵ / ₁₆) including aluminum bar | | | | | |
| Feeder pile height | mm (in.) | | 800 (31 ¹ / ₂) | | | | | |
| Delivery pile height | mm (in.) | | 900 (35 ⁷ / ₁₆) | | | | | |
| Dim. | Length | mm (ft.) | 5,650 (18'6") | 7,380 (24'3") | 8,240 (27') | 9,100 (29'9") | 9,970 (32'8") | 10,830 (35'6") |
| | Width | mm (ft.) | 2,680 (8'10") | | | | | |
| | Height | mm (ft.) | 1,780 (5'10") [2,090 (6'10") : cover open] | | | | | |

- Maximum printing speed may differ from specifications herein.
 - Performance and values may differ depending on specifications.
- Komori reserves the right to change specifications for the purpose of product improvement.

Note:
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