ENTHRONE G29

29" Offset Printing Press

KOMORI

ENTHRONE G29

High quality in a compact design — the perfect answer for today's opportunities

The Enthrone 29, offering compact size and high quality, has been adopted worldwide for its outstanding cost performance. The press has now evolved into the Enthrone G29 that is more environmentally friendly and fully compatible with KP-Connect.

- **Now including Lithrone Series technology, achieving reduced power consumption and improved ROI*[1]**

- **Realizing further quality improvement and reduced energy consumption through the use of the optimized Smart Inking Flow used in the Lithrone G advance Series**

- **Enhanced visualization of performance through connection with Komori Solution Cloud KP-Connect Basic***

- **A complete upgrade of the exterior design while still maintaining the compact and space-saving press size**

- **High register accuracy achieved by plate cylinder with flat clamp mechanism**

*[1] ROI: Return on Investment
* Option

Photo: EG-429
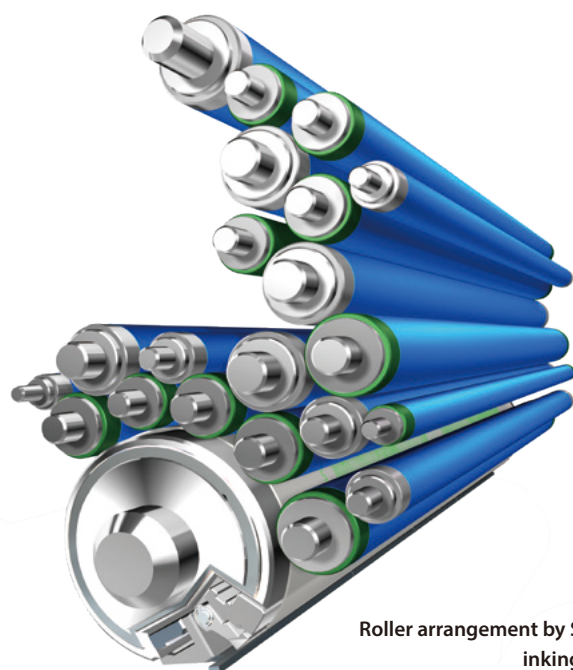* Model in photograph includes optional specifications.

New specifications combining reduced power consumption and ROI enhancement

The Enthrone G29 significantly reduces power consumption during printing by adopting the inker array Smart Inking Flow from the Lithrone G advance Series. Additionally, it enables the installation of the PDM-II press management system and connection with KP-Connect Basic and supports improved ROI by visualizing press operation.

Enables quick color matching and achieves improved print quality and energy saving

Smart Inking Flow

An optimized roller arrangement backed by state-of-the-art analysis, not only ensures enhanced print quality through stable density control, but reduces exhaust heat and energy consumption by alleviating the load on the rotary drive.

Roller arrangement by Smart inking flow

Standardization of printing and quick printing startup through numerical management

PDM-II(PQC Data Manager-II)*

Equipped with the basic functions of the KHS-AI integrated control system developed for Lithrone and compatible with online networks.

- Basic functions of KHS system: ink key data presets, ink and water feed presets, and ink conversion curve.
- Job management functions: operating data control, maintenance and error information control, self diagnostics, and interface to JDF networks

PDM-II operation screen

KP-Connect Basic

Monitor operations remotely, anytime, anywhere

KP-Connect Basic*

KP-Connect visually analyzes and graphs real print operation data, helping to improve productivity.
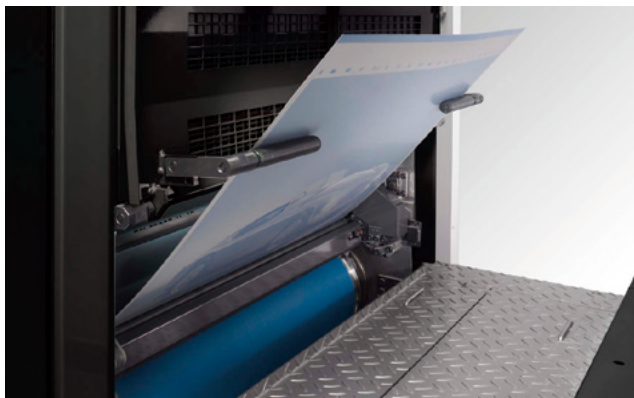
* PDM-II* is required.

* Option

Short Makeready Powered by Multifunctional Design

Incorporating a highly evolved double-size cylinder configuration, the compact 29-inch Enthrone G29 was born from Komori cutting-edge technology. The Enthrone G29 is a new model that within its compact dimensions incorporates multiple functions to assure the high level print quality and the short makeready required by today's diverse market. Improved register accuracy and greatly reduced makeready times are realized by the pre-inking and removing functions and tool-less clamping system employing a flat plate clamp mechanism. Simply pressing a button enables quick automatic blanket washing and automatic impression cylinder cleaning by means of a presoaked cloth as well as automatic ink roller cleaning. The time required for sheet thickness changeover is slashed thanks to the adoption of a sheet thickness preset function and the elimination of gripper pad height adjustment. The maximum printing speed of 13,000 sheets per hour and the high-speed print start-up function shorten test printing and reduce paper waste. Print preparation time is further cut by the coordination of various functions, enabling unprecedented short makereadies that easily accommodate heavy stock. Only the nimble, easy-to-use Enthrone G29 raises working efficiency with its full complement of functions to meet today's needs of ever-shorter runs and tighter turnaround deadlines.

Tool-less Plate Clamping System

The one-touch flat clamp design enables quick plate-changing with high register accuracy and can reduce costs even more as the plates may be reused. In addition, the plate tensioning system makes it easy to quickly and evenly mount the plates. Manual skewing, and fan-out adjustment are all possible with the tail edge plate clamp.

Semi-APC (Semi-Automatic Plate Changer)*

Highly efficient automatic plate changer that performs plate changing quickly. The automatic plate changer substantially reduces makeready times and improves productivity by raising the actual working efficiency of the press.
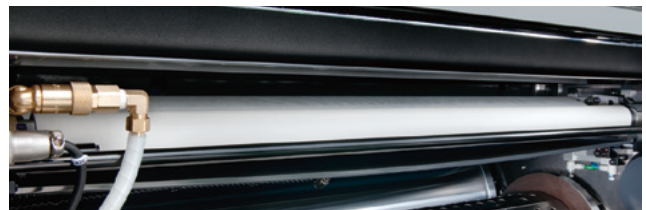
Sheet Thickness Preset

The sheet thickness preset allows printing on a full range of stocks – from thin sheets to thick. Sheet thickness adjustment between the blanket cylinder and the impression cylinder can be performed from the touch-panel by means of an easy one-touch operation.
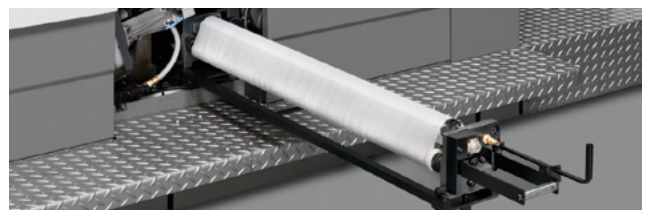

Sheet thickness preset on touch-panel operation screen

Automatic Cleaning Systems

The very efficient automatic cleaning is software controlled. Not only is the time for automatic blanket washing and automatic impression cylinder cleaning reduced by the use of a highly effective presoaked cloth, the reduced amount of cloth consumption helps the environment. Total print preparation time is dramatically reduced by automatically linking these functions together.
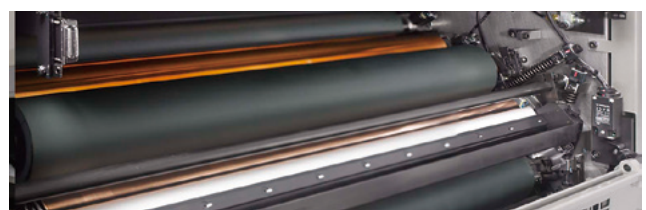

Automatic blanket washing

Automatic impression cylinder cleaning*

Automatic ink roller cleaning*
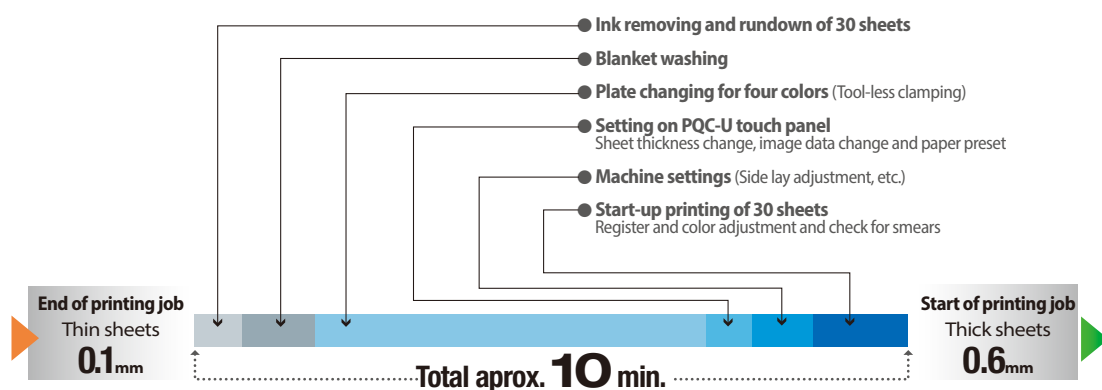

Cleaning blade air on/off

* Option

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Space-saving Press Configured with Double-size Cylinders for Outstanding Performance with Heavy Stock and Short Runs

The development concept of the Enthrone G29 was 'the ideal press for outstanding cost performance with high print quality.' The result is a compact press utilizing a double-size cylinder configuration that delivers both high print quality and high productivity and also offers superior stock range and short run performance. Particularly noteworthy is the Enthrone G29's ability to print on sheets ranging in thickness from 0.04 mm to 0.6 mm. Sheet thickness changeover is very easy — requiring just a one-touch operation — thanks to the sheet thickness preset function. In addition, a dramatic reduction in changeover time is achieved since there is no need for gripper pad adjustment. A new operation panel located above the delivery facilitates press settings for ink, water and register. The operatorside stepless design means the Enthrone G29 easily fits into confined installation spaces. In addition, the ergonomic cover design between the units and the configuration of the auxiliary step reduces the operator's workload and improves working efficiency.

Also, when equipped with the optional PDC-SE or PDC-SG (Spectral Print Density Control) and PDM-II, which provides the basic functions of the KHS system, the Enthrone becomes capable of print standardization by numeric control and very fast print start-up.

Job changeover flow from thin to thick sheets – Four colors, no change of paper size

- Ink removing and rundown of 30 sheets
- Blanket washing
- Plate changing for four colors (Tool-less clamping)
- Setting on PQC-U touch panel
  Sheet thickness change, image data change and paper preset
- Machine settings (Side lay adjustment, etc.)
- Start-up printing of 30 sheets
  Register and color adjustment and check for smears

End of printing job Thin sheets **0.1mm**

Total aprox. **10** min.

Start of printing job Thick sheets **0.6mm**

- For test printing, the 12,000sph high-speed start-up is a standard specification.
- For sheet thicknesses of 0.04 mm to 0.6 mm, changeover requires no gripper pad adjustment.

PDC-SG (Spectral Print Density Control - SG Model)*

Measures color of printed items and provides feedback to press. Komori's original color feedback technology contributes to shorter changeover time and reduced paper waste.
- Color feedback by density and Lab measurement results
- Spot measurement
- Space-saving

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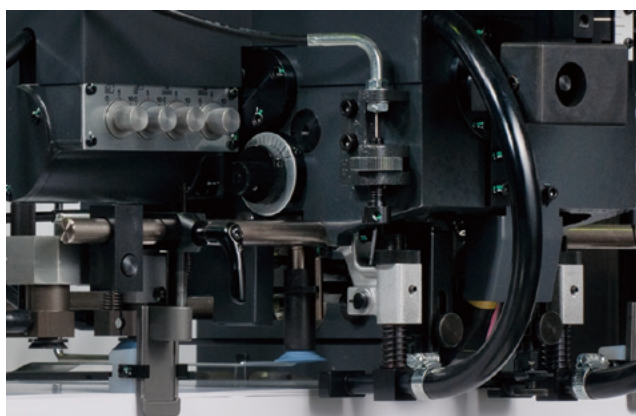• Figures show Komori measurements under specific conditions. No warranty is implied.

Superior Dot Reproduction and Inking Performance for High Quality Print

Komori never relents in its pursuit of quality. Print quality is characterized by excellent reproduction, superior inking performance and vivid color brilliance. In the printing unit, which is the core element in attaining this objective, the ideal configuration of inking and dampening rollers as determined by computer analysis maintains the optimum balance of ink and water and ensures high print quality.

In addition, the use of the double-size cylinder configuration, the new gripper shaft configuration, and performancestabilized tapered roller bearings on the plate, impression and transfer cylinders ensures high quality image reproduction. This unrelenting insistence on quality with items such as the Komorimatic continuous dampening system, which directly supplies dampening water uniformly to the plate surface and enables non-alcohol printing, and the micron-order stability and precision of the press raises the value of print quality to the highest level. In addition, the sheet transport system is equipped with a range of functions to ensure stable high print quality, from consistent sheet feeding by the feeder head, front lay, and ultrasonic double-sheet detector to stable sheet piling in the semi-high pile delivery.
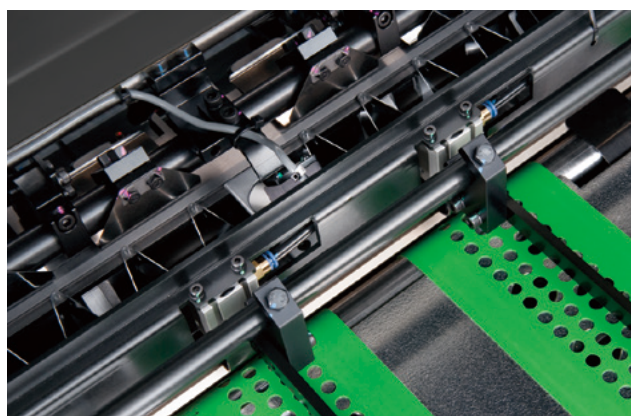
Sucker Box

The sucker box provides exceptional high-speed stability, ensuring consistent feeding performance from thin to thick sheets.

Ultrasonic Double-Sheet Detector / Front Lay

The double-sheet detector utilizes the latest mechatronics technology to prevent mis-fed sheets with a high degree of accuracy over a wide range of detection conditions. The front lay area ensures high register accuracy with a full range of stocks — from thin to thick sheets — and increases the stability of the paper in the registration unit.
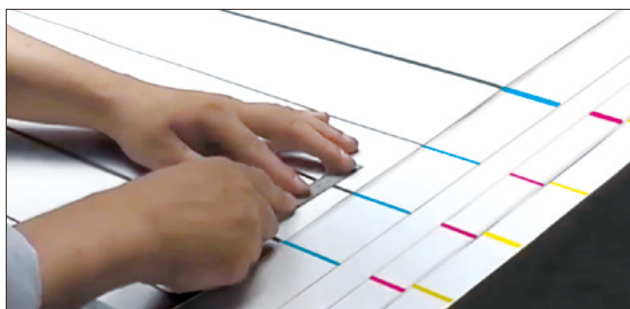
Maintenance Assistance and Operator Support

Reduces time spent on daily machine maintenance and adjustment work

Positioning auto set*

Streamlines two routine tasks by simply pressing a button.

1). Nip width can be verified by printing*[1]

2). Automatically positions grease lubrication points

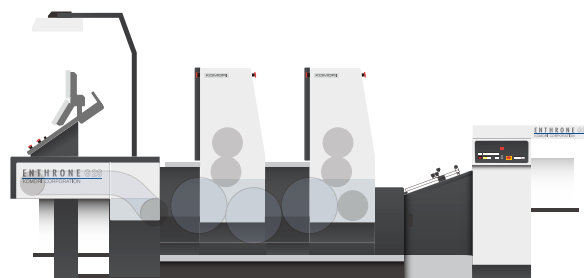*[1] Verify nip width between plate surface and form rollers and between form and vibrator rollers by printing.
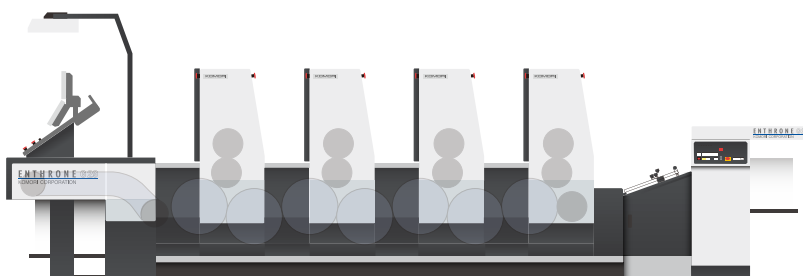
Verification of nip width by printing
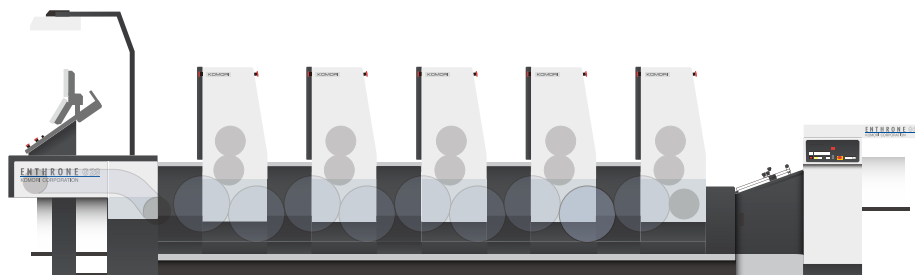
* Option

ENTHRONE G29 (29" Two-color Offset Printing Press) EG-229

ENTHRONE G29 (29" Four-color Offset Printing Press) EG-429

ENTHRONE G29 (29"Five-color Offset Printing Press) EG-529

Specifications

ENTHRONE G29 (29" Offset Printing Press) specifications				
Model		EG-229	EG-429	EG-529
Number of colors		2	4	5
Max. printing speed	sph	13,000		
Max. sheet size	mm	530 × 750 (20.9 × 29.5)		
Min. sheet size	mm	200 × 280 (7.9 × 11)		
Max. printing area	mm	520 × 740 (20.5 × 29.1) [520 × 736 (20.5 × 29)*1]		
Sheet thickness range	mm	0.04 – 0.6 (0.0016~0.024)		
Plate size	mm	605 × 760 (23.8 × 29.9) [605 × 745 (23.8 × 29.3)*1]		
Blanket size	mm	688 × 770 (27.1 × 30.3) including aluminum bar		
Feeder pile height	mm	800 (31.5)		
Delivery pile height	mm	600 (23.6)		
Dimensions	Length (L)	mm	4,762 (15'7")	6,322 (20'9")	7,354 (24'2")
	Width (W)	mm	2,582 (8'6") [2,632 (8'8")*2]		
	Height (H)	mm	1,770 (5'10") [2,135 (7')*3] 2,055 (6'9") with cover open		

*1 Option
*2 Width when wide auxiliary step on operator-side is specified
*3 Height to the operation stand handrail

* 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 improvements.

Note:

ISO 9001
ISO 14001
JQA - QM3657
JQA - EM3213
Komori Machinery Co.,Ltd.

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