# ENTHRONE 26/29 26P/29P

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 Machinery Co.,Ltd.

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KOMORI

# ENTHRONE SERIES

## ENTHRONE 26/29

26/29" OFFSET PRINTING PRESS

## ENTHRONE 26P/29P

26/29" CONVERTIBLE PERFECTING OFFSET PRINTING PRESS


Photo: E-529
* Model in photograph includes optional specifications.

## Quality and Cost Performance Resonate

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

The Enthrone embodies the high print quality and leading-edge technologies that have become synonymous with Komori. And with its stepless operator-side design and small footprint, the Enthrone fits easily in any installation space.

The highly specified Enthrone is configured with double-size impression and transfer cylinders to ensure consistent performance on short runs of a diverse work mix.

Accommodating sheet thicknesses of 0.04 mm to 0.6 mm, the press dramatically shortens the time required for changeover between light and heavy stocks because no transfer cylinder gripper pad adjustment is necessary. The Enthrone, in short, enables working efficiencies that result in higher margins and business growth.

*Sheet thickness range for perfectors: 0.04 ~ 0.45 mm in straight mode, 0.04 ~ 0.3 mm in perfecting mode.

### Developed as a true green printing press

Ninety-five percent of the environmental impact of a press takes place during the print production stage. For this reason, Komori develops printing presses and systems that have a low environmental impact that is achieved by saving energy and resources through the reduction of makeready time and paper waste and by reducing harmful chemical substances such as volatile organic compounds (VOCs) released during printing. Komori products also comply with the Restriction of Hazardous Substances Directive (RoHS) of the European Union and incorporate features to minimize noise. The Enthrone is a true green printing press that is considerate of both the production environment and the earth's ecosystem.

Environmentally Friendly

## Contents


* Model in photograph includes optional specifications.

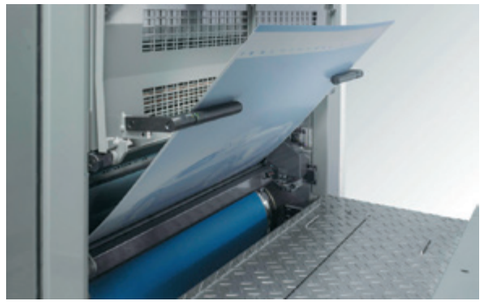
## Short Makeready Powered by Multifunctional Design

Incorporating a highly evolved double-size cylinder configuration, the compact 26/29-inch Enthrone Series presses were born from Komori cutting-edge technology.

The Enthrone 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 raises working efficiency with its full complement of functions to meet today's needs of ever-shorter runs and tighter turnaround deadlines.

*Maximum printing speed for perfectors: 13,000sph in straight mode, 11,000sph in perfecting mode

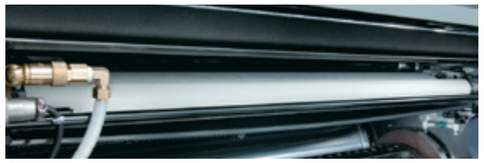
**Tool-less Plate Clamping System**
The one-touch flat clamp design enables quick plate-changing with high register accuracy and can reduce costs even more as the plates may be re-used. In addition, the plate tensioning system makes it easy to quickly and evenly mount the plates. Manual skewing, and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



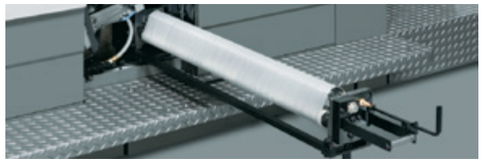
**Sheet Thickness Preset**
The sheet thickness preset allows printing on a full range of stocks – from thin sheets to thick. Sheet thickness adjustment between the blanket cylinder and the impression cylinder can be performed from the touch-panel by means of an easy one-touch operation.


Sheet thickness preset on touch-panel operation screen

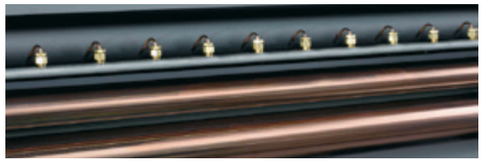
**Automatic Cleaning Systems**
The very efficient automatic cleaning is software controlled. Not only is the time for automatic blanket washing and automatic impression cylinder cleaning reduced by the use of a highly effective presoaked cloth, the reduced amount of cloth consumption helps the environment.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



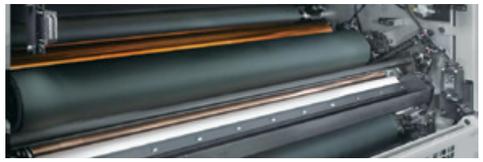
Automatic blanket washing



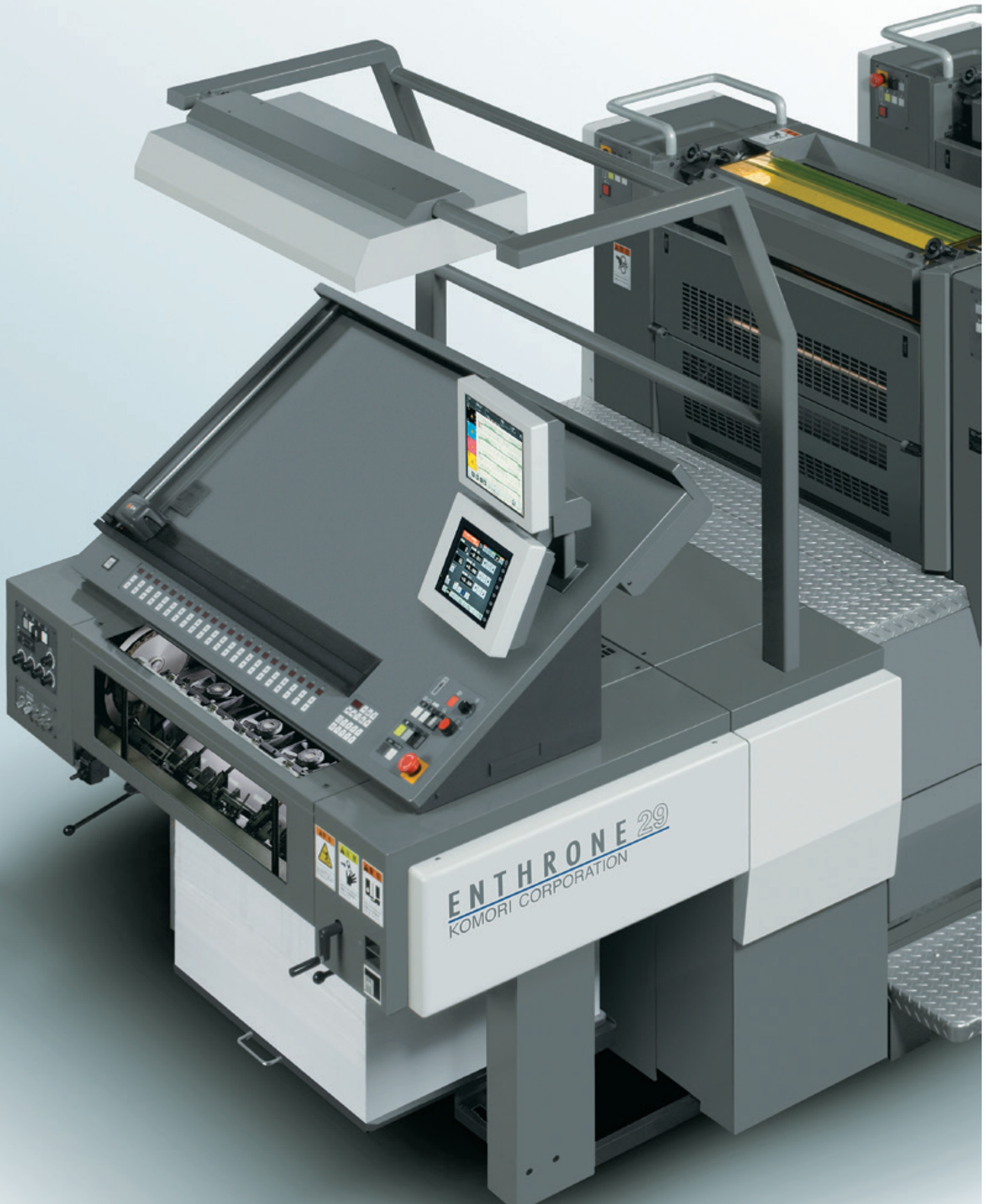
Automatic impression cylinder cleaning *Option



Automatic ink roller cleaning *Option



Cleaning blade air on/off



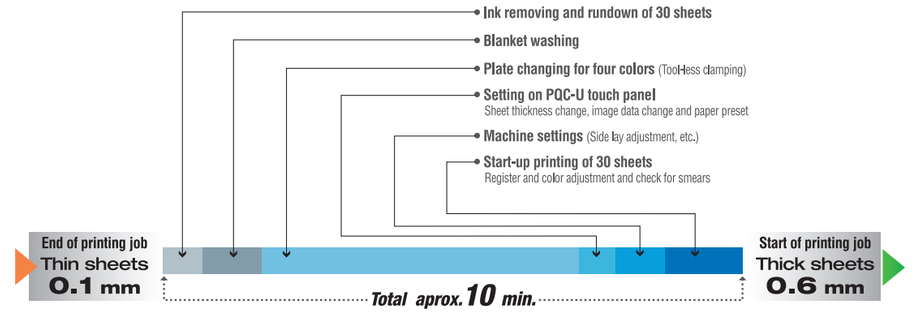

* Model in photograph includes optional specifications.

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

The development concept of the Enthrone Series presses 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'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 operator-side stepless design means the Enthrone 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.

* Standard job data storage is by CF card or USB flash drive.

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




- For test printing, the 12,000sph high-speed start-up is a standard specification. (11,000sph for two-sided printing with perfector)
- For sheet thicknesses of 0.04 mm to 0.6 mm, changeover requires no gripper pad adjustment.

* Sheet thickness range for perfectors: 0.04 mm ~ 0.45 mm in straight mode, 0.04 mm ~ 0.30 mm in perfecting mode

**PDM-II (PQC Data Manager-II)** *Option
PDM-II is an online network compatibility system that provides the basic functions of KHS and KMS.
- Basic functions of KHS system: ink key data presets, ink and water feed presets, and ink conversion curve.
- Basic functions of KMS (Komori Management System): operating data control, maintenance and error information control, self diagnostics, and interface to JDF networks


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


PDC-SG

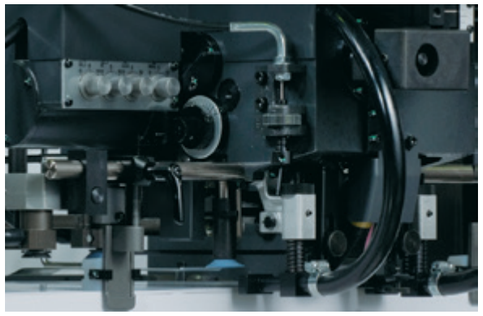
* Figures show Komori measurements under specific conditions. No warranty is implied.

# Superior Dot Reproduction and Inking Performance for High Quality Print

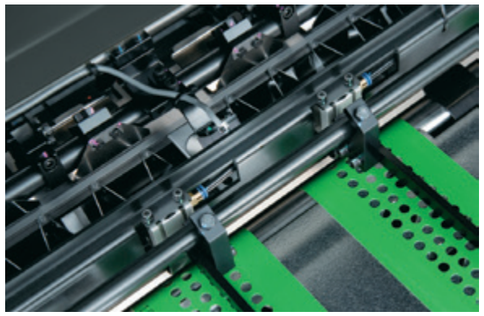
Komori never relents in its pursuit of quality. Print quality is characterized by excellent reproduction, superior inking performance and vivid color brilliance. In the printing unit, which is the core element in attaining this objective, the ideal configuration of inking and dampening rollers as determined 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 performance-stabilized 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.

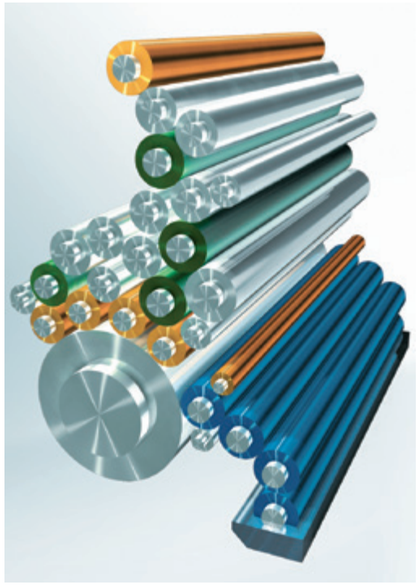
**Sucker Box**
The sucker box provides exceptional high-speed stability, ensuring consistent feeding performance from thin to thick sheets.



**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.



**Ink and Dampening Roller Mechanism**
The ink fountain keys, Komorimatic dampening, and inking roller system are all inherited from the Lithrone S Series presses. In addition, the ink fountain roller is equipped with an independent motor drive and automatic cleaning function. The plate dampener has upper and lower oscillating rider rollers to level out the ink and water films. These technologies ensure high print quality by consistently maintaining the optimum balance of ink and water and supplying a stable, uniform ink film to the plate surface.







# The Perfector: High Efficiency and Profitability

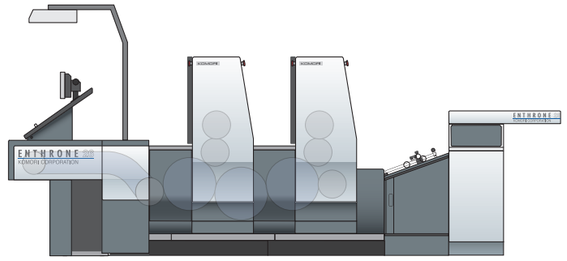
The Enthrone perfector provides the printer with the ability to perform two-sided and single-sided printing on thin or thick sheets with just one machine. The sheet turning mechanism of the Enthrone perfector consists of a newly developed 'double – double – single' cylinder configuration which uses a double transfer cylinder, a double suction cylinder and a single sheet turning cylinder for high-stability perfecting. This cylinder configuration enables smooth, stress-free sheet transport over a wide range of printed work. The sheet turning mechanism employs a smooth, even perfecting cylinder surface which eliminates scratches and marking. The mechanism is also equipped with an automatic changeover function that allows quick, accurate mode changeover, thereby reducing human error. In addition, a new changeover fault recovery guidance system enables the avoidance of errors, the prevention of mechanical damage, and the reduction of any downtime if a problem should occur during perfecting changeover. Moreover, the use of air control in the delivery, such as the upsweep air guide, ensures stable sheet transport and prevents problems such as scratches and marking in the delivery. The new perfecting, feeding and delivery functions along with the new automatic systems mean that the Enthrone perfector meets all the requirements for high print quality in two-sided printing. The Enthrone perfector's short run capability with a wide range of sheet thicknesses reduces paper stock requirements and increases working efficiency, thus assuring high margins and business growth.

**'Double – Double – Single' Perfecting Cylinder configuration**
Compared to a 'single – double – single' design, this new cylinder configuration ensures stable sheet transport and high-performance perfecting that reduce the possibility of scratches and marking.


* Model in photograph includes optional specifications.

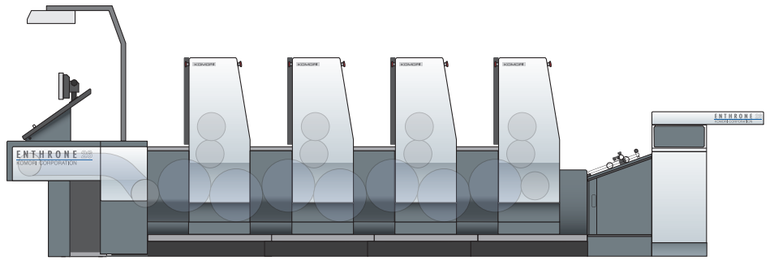
## ENTHRONE 26 (E-226)

26-inch Two-color Sheetfed Offset Printing Press



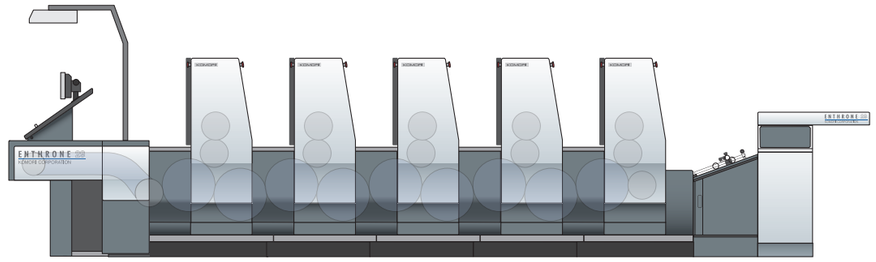
## ENTHRONE 26 (E-426)

26-inch Four-color Sheetfed Offset Printing Press



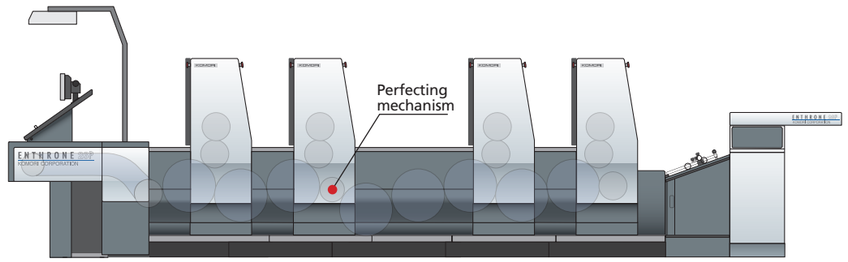
## ENTHRONE 29 (E-529)

29-inch Five-color Sheetfed Offset Printing Press



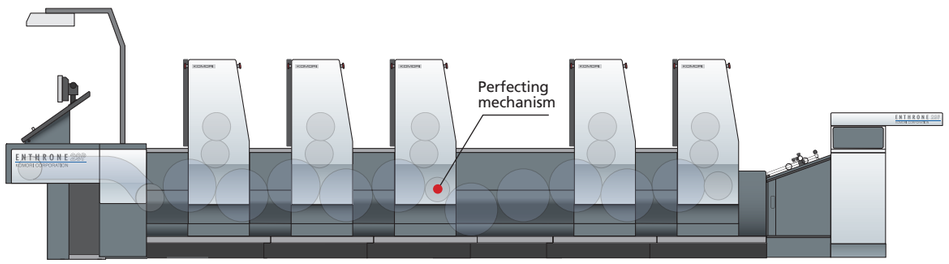
## ENTHRONE 26P (E-426P)

26-inch Four-color Convertible Perfecting Sheetfed Offset Printing Press




## ENTHRONE 29P (E-529P)

29-inch Five-color Convertible Perfecting Sheetfed Offset Printing Press








| Specifications | | | ENTHRONE 26 26-inch Sheetfed Offset Printing Press | | | ENTHRONE 26P 26-inch Convertible Perfecting Sheetfed Offset Printing Press | |
|---|---|---|---|---|---|---|---|
| Model | | | E-226 | E-426 | E-526 | E-426P | E-526P |
| Number of colors | | | 2 | 4 | 5 | 4 | 5 |
| Max. printing speed | | sph | 13,000 | | | 13,000 [single sided] 11,000 [double sided] | |
| Max. sheet size | | mm (in.) | 480 x 660 ($18^{29}/_{32}$ x $25^{31}/_{32}$) | | | 480 x 660 ($18^{29}/_{32}$ x $25^{31}/_{32}$) | |
| Min. sheet size | | mm (in.) | 200 x 280 ($7^{7}/_{8}$ x $11^{1}/_{32}$) | | | 200 x 280 ($7^{7}/_{8}$ x $11^{1}/_{32}$) [single sided] 280 x 305 ($11^{1}/_{32}$ x 12) [double sided] | |
| Max. printing area | | mm (in.) | 470 x 650 ($18^{1}/_{2}$ x $25^{19}/_{32}$) | | | 470 x 650 ($18^{1}/_{2}$ x $25^{19}/_{32}$) [single sided] 460 x 650 ($18^{1}/_{8}$ x $25^{19}/_{32}$) [double sided] | |
| Sheet thickness range | | mm (in.) | 0.04~0.6 (0.0016~0.024) | | | 0.04~0.45 (0.0016~0.018) [single sided] 0.04~0.3 [double sided] (0.0016~0.012) | |
| Plate size | | mm (in.) | 560 x 670 ($18^{1}/_{16}$ x $25^{3}/_{8}$) | | | 560 x 670 ($18^{1}/_{16}$ x $25^{3}/_{8}$) | |
| Blanket size | | mm (in.) | 688 x 770 ($27^{3}/_{32}$ x $30^{5}/_{16}$) including aluminum bar | | | 688 x 770 ($27^{3}/_{32}$ x $30^{5}/_{16}$) including aluminum bar | |
| Dim. | Length (L) | mm (ft.) | 4,594 (15') | 6,322 (20'9") | 7,354 (24'2") | 6,926 (22'9") | 7,958 (26'1") |
| | Width (W) | mm (ft.) | 2,582 (8'6") [2,632 (8'8")*2] | | | 2,582 (8'6") [2,632 (8'8")*2] | |
| | Height (H) | mm (ft.) | 1,770 (5'10") [2,135 (7')*3]<br>2,055 (6'9") cover open | | | 1,770 (5'10") [2,135 (7')*3]<br>2,055 (6'9") cover open | |

| Specifications | | | ENTHRONE 29 29-inch Sheetfed Offset Printing Press | | | ENTHRONE 29P 29-inch Convertible Perfecting Sheetfed Offset Printing Press | |
|---|---|---|---|---|---|---|---|
| Model | | | E-229 | E-429 | E-529 | E-429P | E-529P |
| Number of colors | | | 2 | 4 | 5 | 4 | 5 |
| Max. printing speed | | sph | 13,000 | | | 13,000 [single sided] 11,000 [double sided] | |
| Max. sheet size | | mm (in.) | 530 x 750 ($20^{7}/_{8}$ x $29^{17}/_{32}$) | | | 530 x 750 ($20^{7}/_{8}$ x $29^{17}/_{32}$) | |
| Min. sheet size | | mm (in.) | 200 x 280 ($7^{7}/_{8}$ x $11^{1}/_{32}$) | | | 200 x 280 ($7^{7}/_{8}$ x $11^{1}/_{32}$) [single sided] 280 x 305 ($11^{1}/_{32}$ x 12) [double sided] | |
| Max. printing area | | mm (in.) | 520 x 740 ($20^{15}/_{32}$ x $29^{17}/_{32}$)<br>[520 x 736 ($20^{15}/_{32}$ x $28^{31}/_{32}$)]*1 | | | 520 x 740 ($20^{15}/_{32}$ x $29^{17}/_{32}$) [single sided] 510 x 740 ($20^{3}/_{32}$ x $29^{17}/_{32}$) [double sided]<br>520 x 736 ($20^{15}/_{32}$ x $28^{31}/_{32}$) [single sided] 510 x 736 ($20^{3}/_{32}$ x $28^{31}/_{32}$) [double sided]*1 | |
| Sheet thickness range | | mm (in.) | 0.04~0.6 (0.0016~0.024) | | | 0.04~0.45 (0.0016~0.018)[single sided] 0.04~0.3[double sided] (0.0016~0.012) | |
| Plate size | | mm (in.) | 605 x 760 ($23^{13}/_{16}$ x $29^{29}/_{32}$) [605 x 745 ($23^{13}/_{16}$ x $29^{11}/_{32}$)*1] | | | 605 x 760 ($23^{13}/_{16}$ x $29^{29}/_{32}$) [605 x 745 ($23^{13}/_{16}$ x $29^{11}/_{32}$)*1] | |
| Blanket size | | mm (in.) | 688 x 770 ($27^{3}/_{32}$ x $30^{5}/_{16}$) including aluminum bar | | | 688 x 770 ($27^{3}/_{32}$ x $30^{5}/_{16}$) including aluminum bar | |
| Dim. | Length (L) | mm (ft.) | 4,594 (15') | 6,322 (20'9") | 7,354 (24'2") | 6,926 (22'9") | 7,958 (26'1") |
| | Width (W) | mm (ft.) | 2,582 (8'6") [2,632 (8'8")*2] | | | 2,582 (8'6") [2,632 (8'8")*2] | |
| | Height (H) | mm (ft.) | 1,770 (5'10") [2,135 (7')*3]<br>2,055 (6'9") cover open | | | 1,770 (5'10") [2,135 (7')*3]<br>2,055 (6'9") 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.
* Margin for vacuum wheels on back side of sheet required for double-sided printing.

| Common for all models | | |
|---|---|---|
| Feeder pile height | mm (in.) | 800 ($31^{1}/_{2}$) |
| Delivery pile height | mm (in.) | 600 ($23^{5}/_{8}$) |