

# LITHRONE SX29



JQA - QM3657  
JQA - EM3213  
Komori Machinery Co., Ltd.

## 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>

LSX-29	en	JPN	BP	N01	1	Feb.2015	Q2K	MP
--------	----	-----	----	-----	---	----------	-----	----

# LITHRONE SX29

29" OFFSET PRINTING PRESS

**The world's most efficient half-size press has arrived.  
Along with a whole new world of opportunities.**



## Introduction

Today, the key to success doesn't lie in speeds and feeds. What counts is how efficiently you print each and every job. The Lithrone SX29 ushers in a new era of efficiency, versatility and performance unmatched by any other half-size press.

It's the largest half-size press that Komori offers, allowing for a 24/29 sheet and fully capitalizing on the vast spectrum of "in-between" jobs and short runs that can make the difference between surviving and thriving.

But beyond flexibility, the Lithrone SX29 offers the most efficient job cycle around. From start to finish, the design emphasizes reducing hourly running costs. Running costs that directly impact profitability. The Lithrone SX29 accomplishes this with a makeready that's 50% shorter and a maximum printing speed of 16,000sph.

The new press is also fortified with features and functions that improve print quality, simplify operation, enhance durability and reliability and minimize the impact on the environment. This innovative press is the perfect strategic addition to any operation and is destined to become the go-to machine time and time again. It's the half-size press that only Komori could build.

### CONTENTS

- 4 Short Makeready**  
Automation for the fastest job cycle times.
- 5 Quality / Environmentally Friendly**  
An evolution in print quality. / With minimal environmental impact.
- 6 Advanced Digitalization**  
Full compatibility with advanced digitization.
- 7 Custom Configurations / Specifications**

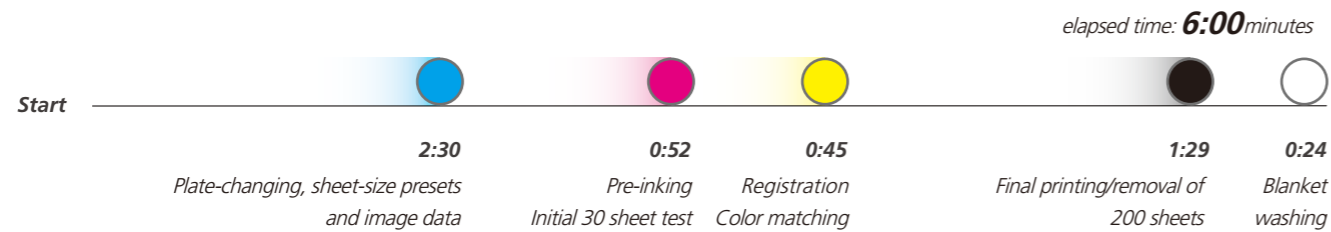
Photo: LSX-629 + C (Six-color 29-inch sheetfed offset press with in-line coater and extended delivery)

\*Model in photograph includes optional specifications.

## Automation for the fastest job cycle times.

The Lithrone SX29 features extensive automation for the world's fastest job cycling thanks to the incorporation of Komori's most advanced technologies. These range from the Full-APC (the first fully automatic platechanging system specifically designed for a half-size press), that eliminates the need for a tail bend on the plate and is capable of changing four plates in just two and a half minutes, to completely automatic washup of the blanket and impression cylinders and inking rollers. Unique Komori expertise

and technologies ensure seamless interlocked operation of these automatic systems to achieve the fastest cycle times available anywhere. These functions work together to reduce the time from the end of one 200-page job to the start of the next job by 50% – to a mere six minutes. This unprecedented changeover time is a powerful instrument for handling short-run work profitably. In fact, the Lithrone SX29 has the unheard-of capacity to finish 10 jobs of 200 pages each in just one hour.



**Full-APC**  
The Lithrone SX29 is equipped with Full-APC, changing each plate in less than 40 seconds.



**APC Clamp Eliminates Plate Tail Bend**  
The clamp system makes plate loading and discharge very efficient. Plus, there is no need for a tail bend on the plate, eliminating a step in the production process.



**Skeleton transfer cylinder/air guide**  
The optional skeleton-type transfer cylinder further reduces scuffing/marking. Very smooth sheet transport is ensured when the skeleton transfer cylinder is combined with the air guide. Accommodates thin to thick sheets.

## The Lithrone Series. An evolution in print quality.

The major advantages of the Lithrone SX29 include high print quality, high reproducibility, superior inking and distribution, and color brilliance along with high productivity. The printing units are at the core of this quality. They incorporate an optimized roller configuration derived from a computer analysis to specify the ideal model for maintaining the optimum balance of ink and water, ensuring sufficient ink retention, and attaining high print quality.

In addition, the Lithrone SX29 printing units are equipped with the Komorimatic dampening system, which provides a consistent supply of dampening solution directly to the plate and also enables high-quality non-alcohol printing with the minimum necessary amount of water. The printing units also exhibit very high rigidity due to micron-order machine accuracy. The essence of the Komori pursuit of high print quality.

## With minimal environmental impact.

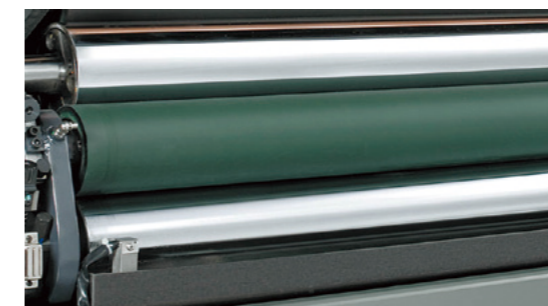
As a leading printing press manufacturer, Komori has long been devoted to the development of printing presses that reduce the impact of printing on the environment. Komori's aim – to create total printing systems that minimize the use of resources, energy and labor – is a basic theme in reducing the environmental footprint of the printing press. In addition to issuing an annual environmental report, Komori addresses environmental issues through a broad program of research and development.



- Reduced paper waste:**  
KHS High-Speed Inking System.  
Reduced energy consumption:
- Use of high-efficiency inverter motors.**  
Integrated automation/digital-ready structural design.
- Reduced use of chemical compounds:**  
Komorimatic dampening system accommodates non-alcohol printing.
- Reduced waste:**  
Automatic ink cartridge loading device (optional).  
Oil-less bearings.  
New oil cleaner with integrated oil pump.
- Noise countermeasures:**  
Soundproof cabinet (optional).



**Automatic Blanket Washing and Impression Cylinder Cleaning.**  
Program control makes automatic cleaning efficient and the pre-soaked cloth eliminates cleaning liquid spray and reduces cloth consumption



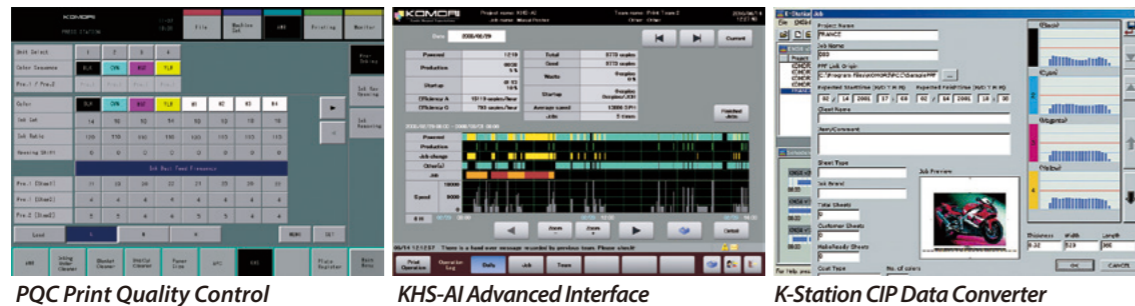
**Komorimatic Dampening System (Komorimatic)**  
Provides a steady supply of dampening solution directly to the plate and facilitates high-quality non-alcohol printing by using the minimum necessary amount of water, ensuring sufficient ink retention, and maintaining high print quality.



## Full compatibility with advanced digitization.

Equipped with dual large-screen touch-panels, the operation console allows nearly all press adjustments to be made easily by remote control. The press can be configured with the CIP4/JDF-compatible K-Station (optional) and the KHS-AI Advanced Interface. This centralized control offers a realtime view of press operating conditions with external data. The operating environment not only facilitates management streamlining

but also reduces the operator's taskload. Combining these capabilities with the optional PDC-SII Print Density Control-Spectrodensitometer and K-ColorProfiler II enables numeric control for color matching printed items and smooth implementation of advanced color management, a major step toward printing standardization. The Komori command center is built to evolve with future digital technologies.



PQC Print Quality Control

KHS-AI Advanced Interface

K-Station CIP Data Converter

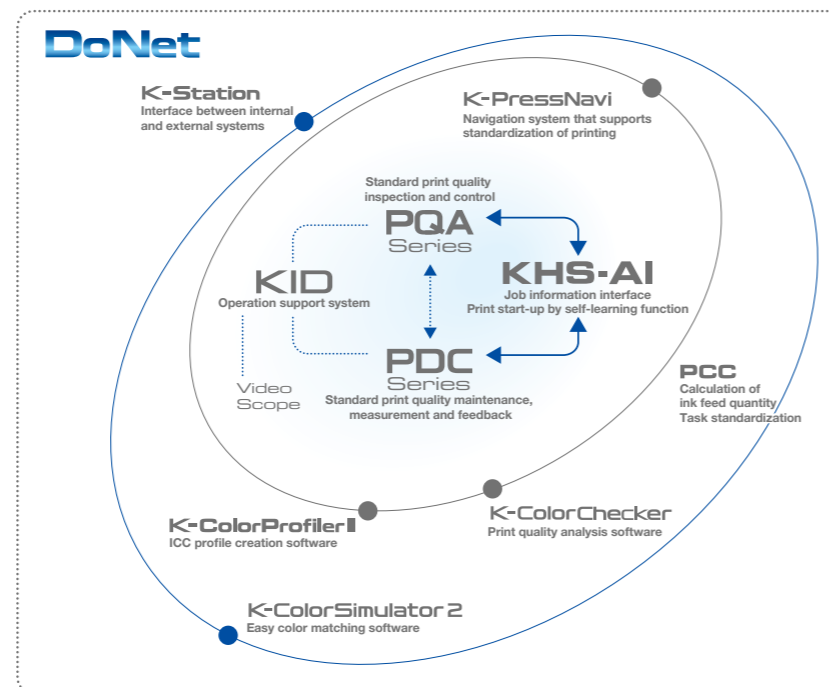
### One-Stop Total Press Control

Centralized control gives the operator pushbutton command of all functions, reducing printing costs by ensuring easy operation and minimal makeready waste.



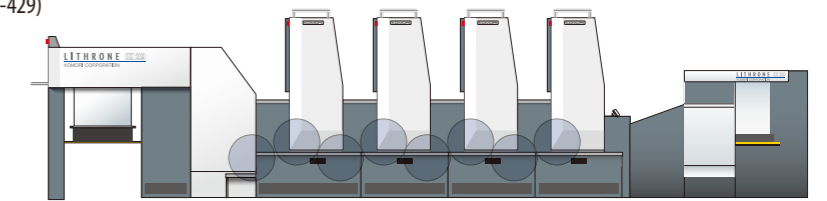
## DoNet Optimized for the CIP4 Era.

DoNet is a digital workflow concept that supports printing standardization from the perspective of a specialist manufacturer of high-performance digital-ready offset presses. Komori DoNet offers complete JDF connectivity, as proven in tests with makers and vendors of prepress and postpress equipment. DoNet is open architecture thinking that starts from the user's environment.

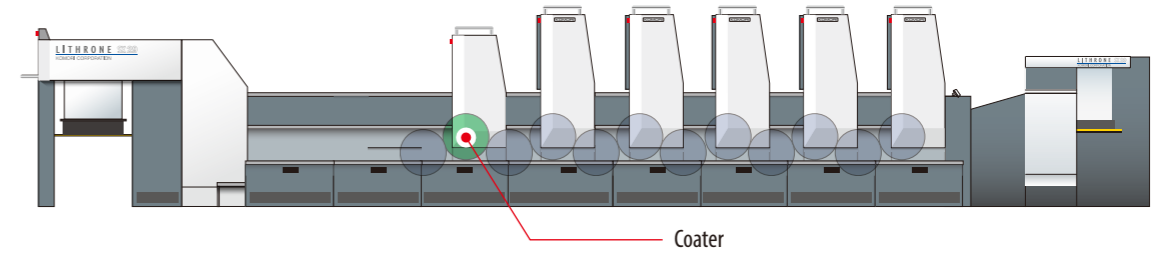


## Custom configurations and lineup

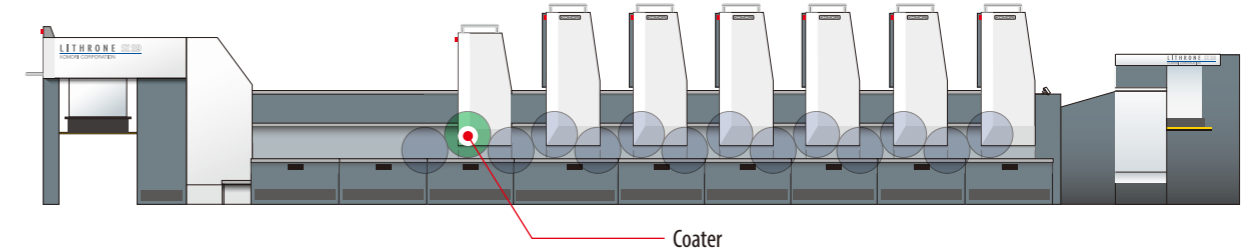
### Four-Color Standard Specification (LSX-429)



### Five-Color Plus Coater Specification with Extended Delivery (LSX-529 + C + Extended Delivery)



### Six-Color Plus Coater Specification with Extended Delivery (LSX-629 + C + Extended Delivery)



# Specifications

## LITHRONE SX29 (29-inch offset printing press) specifications

Model	LSX-229	LSX-429	LSX-529	LSX-629
Number of colors	2	4	5	6
Max. printing speed	sph 16,000			
Max. sheet size	mm (in.) 610 x 750 (24 x 29 <sup>1</sup> / <sub>2</sub> )			
Min. sheet size	mm (in.) 297 x 420 (11 <sup>11</sup> / <sub>16</sub> x 16 <sup>17</sup> / <sub>32</sub> )			
Max. printing area	mm (in.) 585 x 740 (23 x 29 <sup>1</sup> / <sub>8</sub> )			
Sheet thickness range	mm (in.) 0.04 ~ 0.3 (0.0016 ~ 0.0118): option 0.04 ~ 0.8 (0.0016 ~ 0.0315)			
Plate size	mm (in.) 660 x 760 (26 x 29 <sup>15</sup> / <sub>16</sub> )			
Blanket size	mm (in.) 768 x 770 (30 <sup>1</sup> / <sub>4</sub> x 30 <sup>5</sup> / <sub>16</sub> ) including aluminum bar			
Feeder pile height	mm (in.) 1,000 (39 <sup>3</sup> / <sub>8</sub> )			
Delivery pile height	mm (in.) 1,100 (43 <sup>5</sup> / <sub>16</sub> )			
Dim.	Length	mm (ft.) 6,220 (20'4")	8,180 (26'10")	9,160 (30'1")
	Width	mm (ft.) 3,130 (10'3")		
	Height	mm (ft.) 2,090 (6'10") [ 2,320 (7'7") : cover open ]		
Weight	kg (lb.) 12,000 (26,455)	20,000 (44,092)	24,000 (52,911)	28,000 (61,729)

• Maximum printing speed may differ from specifications herein.

Note:

Copyright © 2015 Komori Corporation all rights reserved. All specifications stated herein are current as of February 2015. Maximum printing speed may differ from specification herein. Komori reserves the right to change specifications on machines without notice and without obligation to modify equipment previously manufactured. Because of changes in design, specification, or optional attachments and accessories, the machine actually delivered may differ in appearance and performance from that shown in this brochure. The trademarks and logos of Komori Corporation or others used on this brochure are the property of Komori Corporation or their respective owners. Nothing contained in this brochure grants by implication, waiver, estoppel or otherwise, any right to use any trademark displayed on the brochure without the written permission of Komori Corporation or the respective owner.