

SYSTEM G38



38-inch Offset Printing Press

KOMORI

SYSTEM G38

Introduction

Komori relentlessly drives the evolution of print technology. Now in the pursuit of print perfection comes the ultimate printing press for production and management efficiency.

A web offset press with its inherent high productivity, the 38" System G38 Double-sided Offset Printing Press features the H-UV L(LED) curing system — the revolutionary Komori system that enables high quality printing on sheetfed presses. A maximum printing speed of 30,000 iph yet a total length of just 20 meters. The same size as an eight-color sheetfed perfecter with utterly overpowering productivity. All made possible by Komori's independently developed H-UV L(LED) curing system along with new functions and a range of automatic devices and systems. Komori's latest outstanding technologies are unstintingly deployed throughout the press for very short makeready, lightning quick print start-up as well as shorter job changeovers and automatic color control during the run. New ink cleaning and mist recovery systems as well as the means to visualize operating information and outstanding ease of operation, the press embodies maximum consideration for people and the environment.

Solving a host of printing issues with its superb printing quality, high productivity, short turnaround, excellent cost performance and blue-chip environmental credentials, the System G38 will be a critical asset for greater management efficiency.



Contents

4 Short Makeready

Short Makeready, High Print Quality and Unmatched Productivity

5 Quality

Automated Systems for Print Quality and the Environment

H-UV L(LED)/H-UV — Quality and Reliability in an Eco-friendly and Economical Innovative UV Curing System

6 Color and Register Control

Automatic Color and Register Control for Stable Quality

7 Specifications

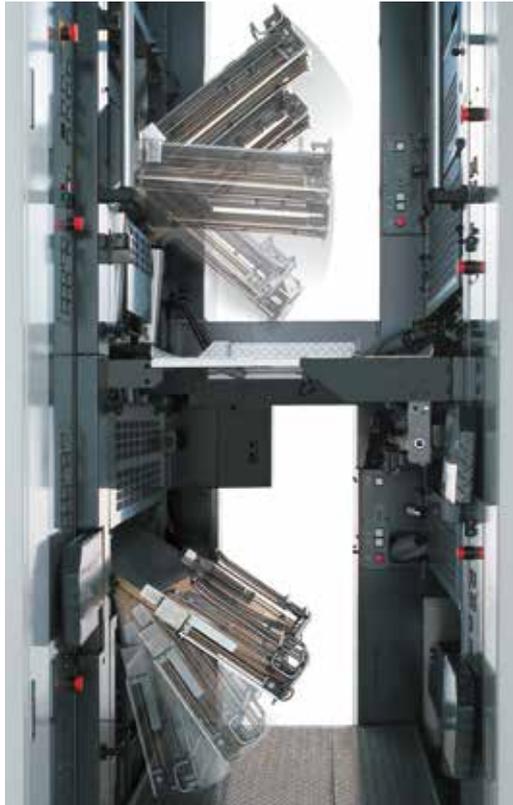
High Productivity and Quality with H-UV L(LED) The Ultimate Double-sided 38" Offset Printing Press



Photo: SYSTEM G38
H-UV L(LED)-equipped 38" Offset Printing Press with Folder

Short Makeready, High Print Quality and Unmatched Productivity

The development concept of the System G38 is the combination of sheetfed print quality technologies and web offset productivity. A web press that can be handled like a sheetfed. Initial development aimed at solving the problems of web offset presses, such as paper waviness. Made a reality as a true state-of-the-art press ideal for next-generation market needs through the development of numerous new functions, devices and systems that automate printing processes. Ultimate short makeready performance with the AI-Link integrated control system, Full-APC fully automatic platechanger and the H-UV L(LED)/H-UV instant curing system. Job changeover is completed with automation of all processes from the end of one job to the start of the next by just inputting to the Smart Sequence job reservation function. Printing of the next job is also started automatically. The fully automatic seamless flow for printing preparation not only reduces the operator's workload but also realizes high print quality and staggering productivity.



Full-APC Fully Automatic Platechanger

Plate changing for all eight colors is completed in about two minutes. Job changeover time is reduced to around five minutes. Higher plate mounting precision due to improved plate holding pad and lateral guide. Easier plate setting due to sideways insertion method for lower cylinder plates.

Automatic Splicer



Two-arm flying paster with integrated infeed

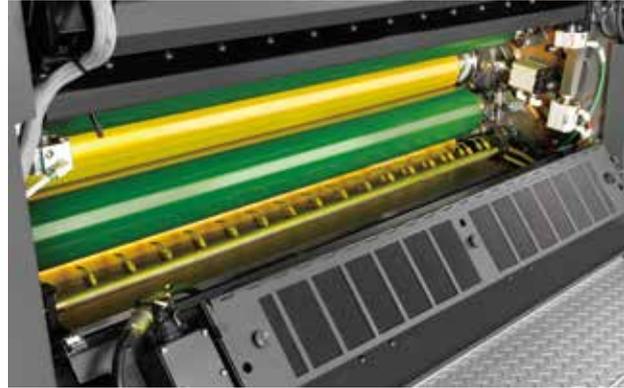
The split-arm accommodates simultaneous loading for full-size web reels. Development of the System G38 focused relentlessly on enhancing profitability, as shown in the tail control that accommodates the pasted and cut positions in one signature for easy splicing and to prevent paper jams in the folder.

Automated Systems for Print Quality and the Environment



Ink Mist Extractor Fans

Ink mist from inside the inker is recovered by a dedicated fan and filter. Maintains the environment of machine and the surrounding area and reduces the workload for air conditioning and peripheral maintenance.



Automatic Ink Cleaning System

After plate changing, the inker is washed by water and cleaning fluid automatically sprayed from two nozzles. In addition to ink recovery, this is a very effective countermeasure for paper dust on the ink rollers.

H-UV L(LED)/H-UV — Quality and Reliability in an Eco-friendly and Economical Innovative UV Curing System

The System G38 comes equipped with H-UV L(LED) instant curing as standard. H-UV L (LED) energy curable inks combine economy and ecology with high quality and reliability. Since the LED lamps pulse on only while the image is fully present, energy demand is reduced and press efficiency is improved. The proven long lifespan of LED lamp modules reduces maintenance requirements and costs.

An H-UV type that uses a UV lamp and highly sensitive UV ink developed with our own know-how can also be installed.



H-UV L(LED) lamps housed in pullout drawers, making lamp replacement easy.

H-UV L(LED) — Innovative 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 the Dry-Down

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

Improved Printing Efficiency

- Can be used immediately when required due to instant ON/OFF capability of the LED lamp.

Environmentally Friendly

- The H-UV L(LED) system 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

- Since the H-UV L(LED) system is compact, installation space is minimal and no area is needed to place printed items that have not yet dried.

Automatic Color and Register Control for Stable Quality

The System G38 is equipped with the latest technologies and systems that simultaneously complete adjustment of register and standard densities to enable printing of webs of paper. Plate register is set by the in-line automatic plate adjustment system, and cutoff control and the web guide are automatically controlled by the high precision presets of KHS-AI. At print start-up, quick start-up by H-UV L(LED) is performed until standard densities are reached, making possible considerable paper waste reduction. Moreover, standard densities are automatically maintained throughout the run by the in-line color control system. In addition, AI-Link, which provides integrated control of the press and various automatic systems and devices, enables further paper waste reduction and very short makeready. Also, stable operation and improved productivity and working efficiency result from the tight coordination of KHS-AI, H-UV L(LED) and the various automatic systems and devices., thereby contributing to significantly increased profitability.



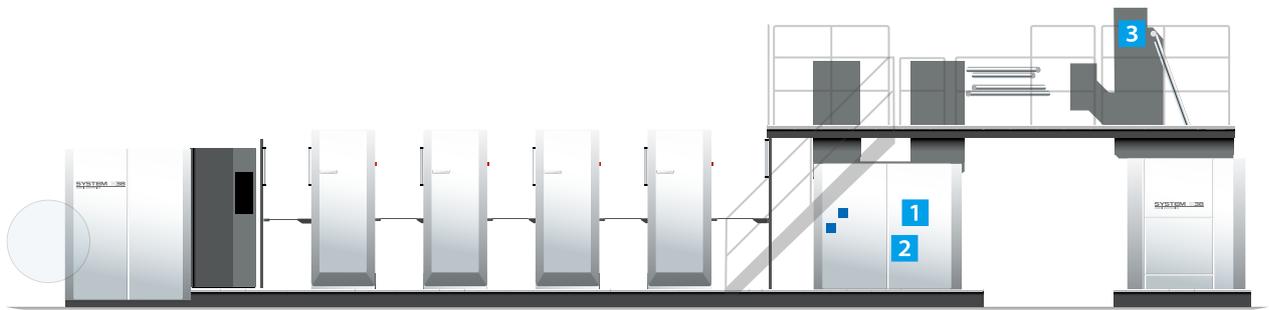
1 Register monitoring camera



2 Web guide



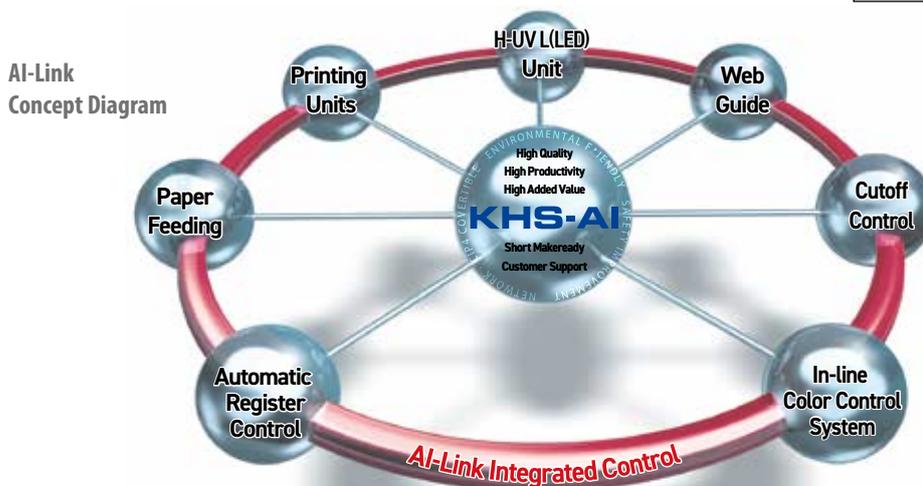
3 Cutoff monitoring camera



AI-Link (Integrated Control System)

- Automatic control of fine adjustment at print start-up in addition to the preset self-learning function of conventional KHS-AI.
- Controls the press from the infeed unit to delivery and also provides integrated control of peripherals.

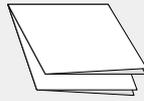
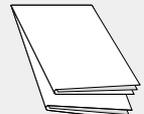
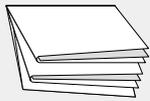
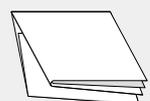
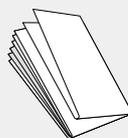
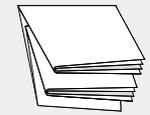
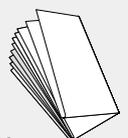
Extraordinary waste paper reduction and short makeready by means of integrated control.



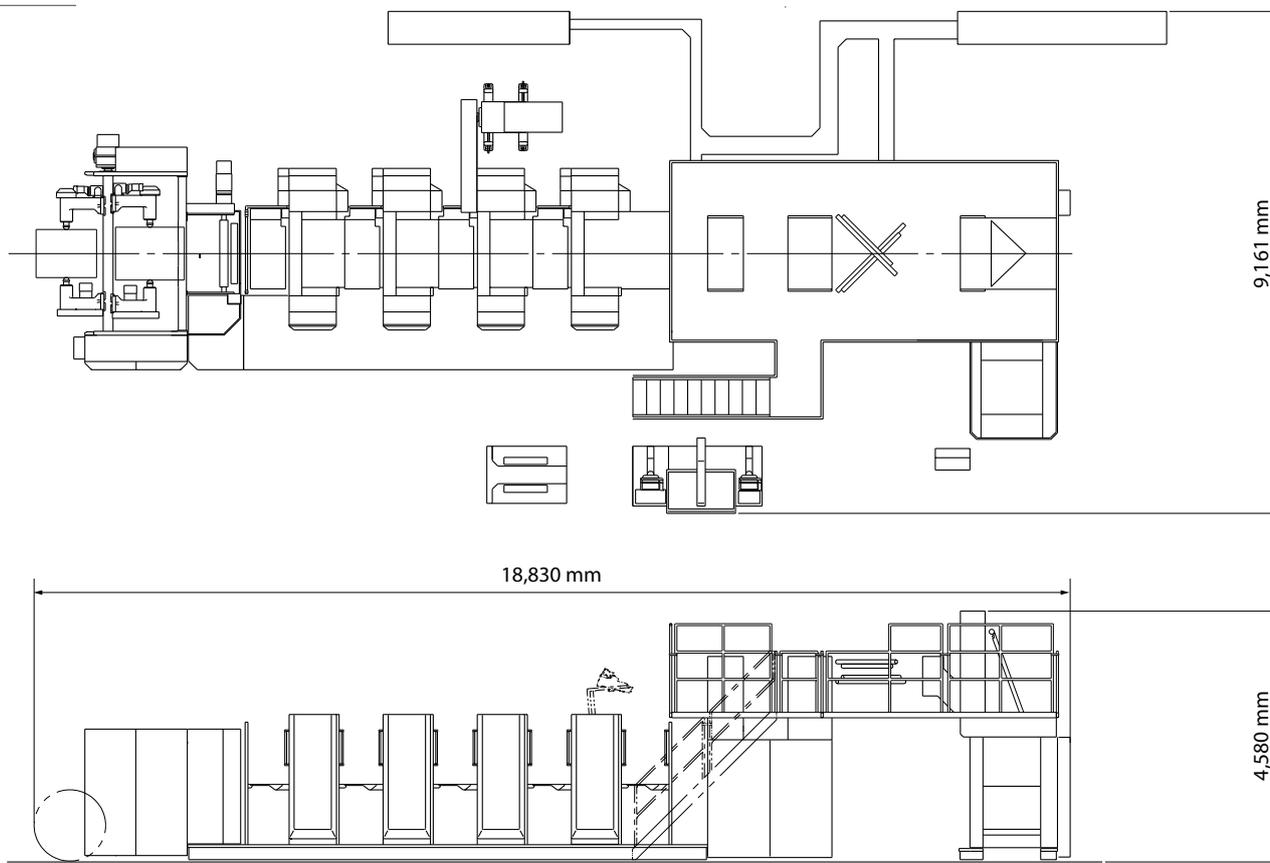
Specifications: 4-color front/4-color back specification with folder

Maximum printing speed		30,000iph	
Paper size	Cutoff	625mm	578mm
	Web width	625mm – 985mm	625mm – 965mm
Maximum roll diameter		Φ1,100mm	
Non-printing gap		8mm	
Paper stock range		40~130g/m ²	

Signatures

	⇒ First fold	⇒⇒ Double parallel fold	⇒⇐ Delta fold	⇒⊥ Chopper fold	
FULL WEB 	 A3x8p	 A5x2x16p	 12p	 A4x16p	 24p
Slit 1/3 Ribbons Shift 	 12p	 24p	 18p	 24p	
Slit 1/2 Ribbons Shift 	 A4x16p	 A5x32p	 24p	 32p	

Outline



Note:

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