SYSTEM 38D

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KOMORI

C O N C E P T

System 38D : An Offset Web Press Combining Energy-saving Performance and High Productivity

In response to growing demand for environmentally conscious business strategies,
Komori has developed a next-generation web offset press, the System 38D,
which delivers not only high productivity and high quality but also outstanding energy-saving performance.
This 32-page press inherits the superior print quality and control systems of the highly acclaimed System series of offset web presses while delivering enhanced energy-saving performance.
Komori's proprietary technologies reduce makeready times while achieving a printing speed of 40,000 iph.
Delivering high quality, short makeready, and the flexibility to handle everything from short to long runs,
this highly efficient web offset press opens new market opportunities.
In addition, by connecting prepress, press, and postpress processes through KP-Connect Pro,
the system optimizes the entire production workflow and contributes to the realization of smart factories.
The System 38D reduces time, labor, and printing materials while lowering environmental impact
and also supports stable operation with an industry-leading support network.

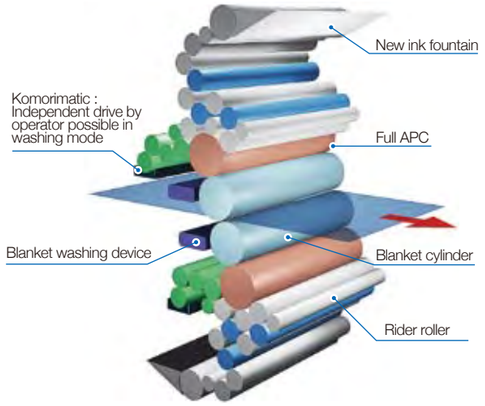
E C O L O G Y

Komori has long pursued the development of printing presses that are friendly to both people and the environment. In recent years, reducing energy consumption has become one of the industry's most important challenges.

The new System 38D is equipped with the next-generation KHS-AI integrated control system, AI-link and various automation system, significantly reducing paper waste, ink consumption, and solvent usage. Komori's proprietary Komorimatic dampening system forms a uniform and thin water film using only the minimum amount of water, making it well suited for alcohol-free printing. In addition, the adoption of a newly developed motor contributes to lower power consumption. Combining reduced energy costs with high productivity, the System 38D is a machine designed to be friendly to both people and the environment.

Q U A L I T Y

The superior print quality of the System 38 press is an established fact.
The key is Komori's unique cylinder array of double-size blanket and plate cylinders and large-diameter inking rollers, which guarantee an utterly stable, stress-free paper flow.
The inker design, dampening system and automatic register guidance function employ the proven technologies of the System 38S to ensure high print quality.
The hickey picker is motorized and 1st ink form rollers and dampening rollers use an innovative oscillating design.
Digital control executed from the state-of-the-art operation console offers very easy operation, allowing the operator to focus on quality control tasks.
High fold quality is provided by the DC-38/1250 double chopper folder.
Fold format changeover is integrated into the KHS-AI system and is fully automated.
The cutting cylinder with collecting function assures perfect matching of leading-edge positions of folded products.
The full repertoire of System 38/S technologies allows differentiation by quality in the 32-page web market.
And legendary Komori structural rigidity means this print quality will be on the front line for the long term.



Printing unit

- Compatible inker/dampening arrangement with 38S ensures high quality printing
- Double-size blanket & plate cylinders and large-diameter inking rollers
- Full APC Fully Automated Platechanging
- Motorized hickey picker
- Oscillating 1st ink form rollers and dampening rollers

AFC Automated Folder Changeover

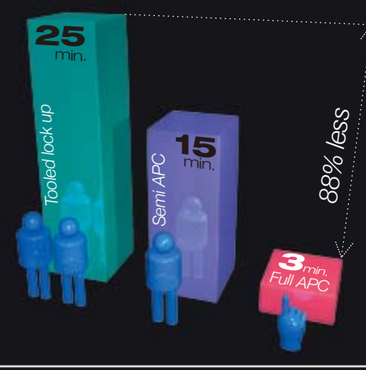
- 3 to 5 minutes for all format changes
- Auto copy reject/Leading in
- KHS-AI preset integration
- Selection of fold format, paper width, and paper type presets the following items.
  Chopper timing, head stop guide height, and chopper roll clearance
  Paper guides position
  Upper nipping roll position

P R O D U C T I V I T Y

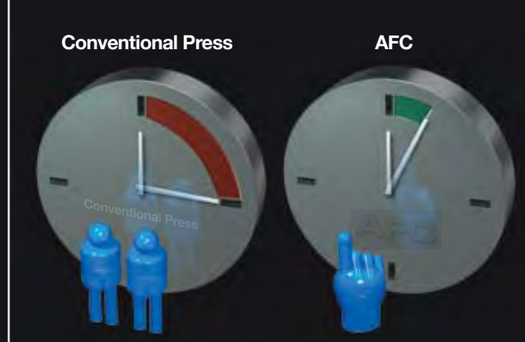
Komori's revolutionary fully automatic platechanging (Full APC) system makes
the System 38D the ultimate short-run 32-page web.
Full APC lets one operator change all eight plates in less than three minutes — time
and labor metrics that actually change the equation.
The press is designed to maximize the efficiency of Full APC, with easy setting of plates
in the loader and ample space between units for the operator.
And the high plate mounting accuracy takes full advantage of high-end CTP systems.
To further streamline job changeovers, the System 38D employs the Smart Sequence System
for simultaneous parallel execution of changeover tasks based on the job ticket data.
In addition, it deploys the Synchronized Drive System, which accelerates the press very quickly,
allowing the operator to get the OK sheet and begin final printing with no delay.
Both systems have a significant impact on the economics of short-run work, saving considerable time and labor.

New Full APC
8 plates changed in 3 min
High plate mounting accuracy with CTP
Easy plate setting in loader
Web intact during platechanging
Ample maintenance space between units

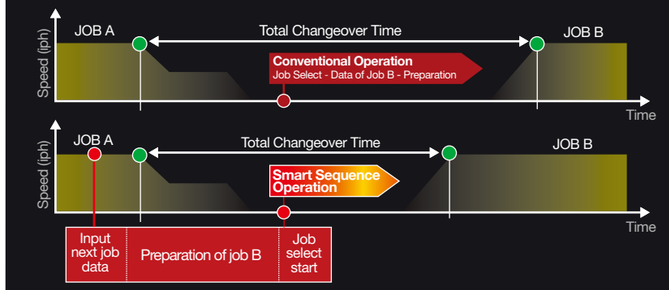
Full APC
Platechanging time and number of operators

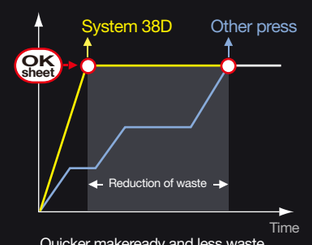


AFC Automated Folder Changeover
3 to 5 minutes for all format changes with one-touch operation



Smart Sequence Operation

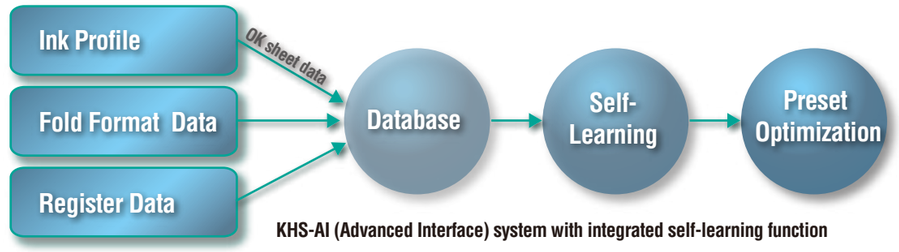




Quicker makeready and less waste

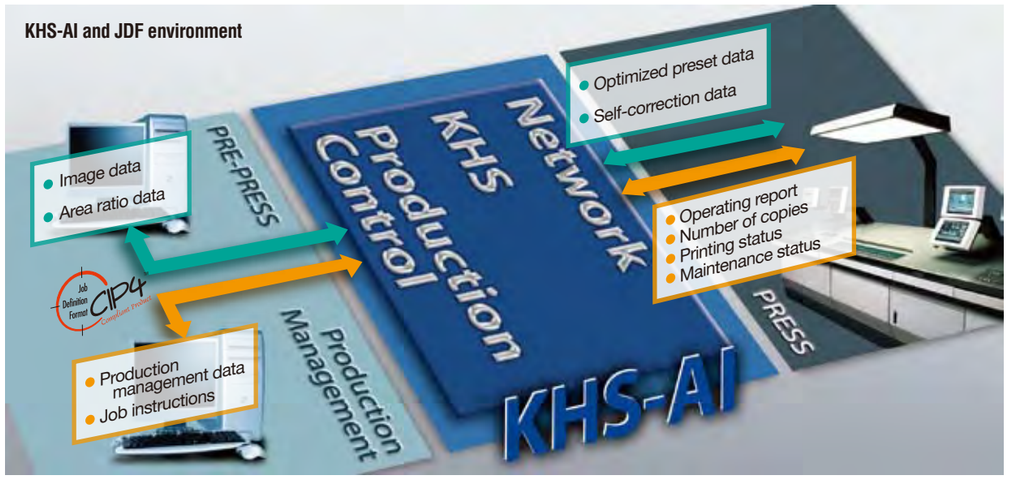
T E C H N O L O G Y

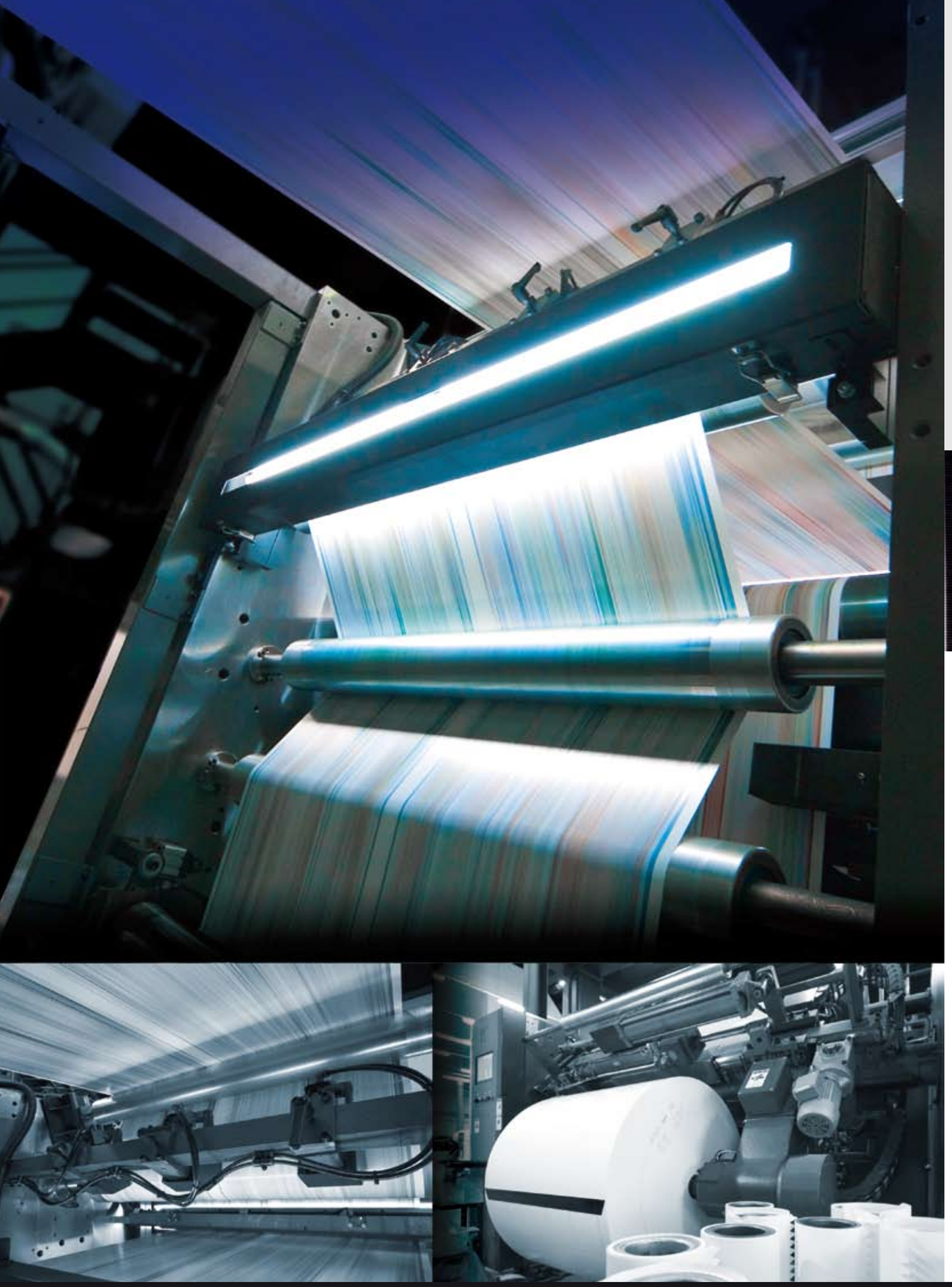
System 38D productivity is derived from the logic of a 32-page press printing flawlessly at 39,000iph.
Yet the imperative of handling shorter run lengths makes short makeready time equally important.
The System 38D performs makereadies in a fraction of the time needed by every other 32-page web on the market.
Directing this brilliant performance is the Komori DoNet-based KHS-AI (Advanced Interface) system
with integrated self-learning function, standard on the System 38D.
K-Station sends the job ticket, including paper specifications, inking profile, and fold format to KHS-AI,
which then searches its database for the optimum press operating parameters,
controlling web guides, tensions, dryer settings and other variables.
The press is fine-tuned even before the job starts running.
The KHS-AI self-learning function facilitates optimized presetting by continuously analyzing the fine color adjustments
and compensation values that vary by plant environment, paper type, other printing materials, and even client.
This analysis is used for continuously updating the KHS-AI database to provide the best preset data
for everything from ink key openings to chopper timing. The fastest and most accurate 32-page setup ever.



KHS-AI (Advanced Interface) system with integrated self-learning function

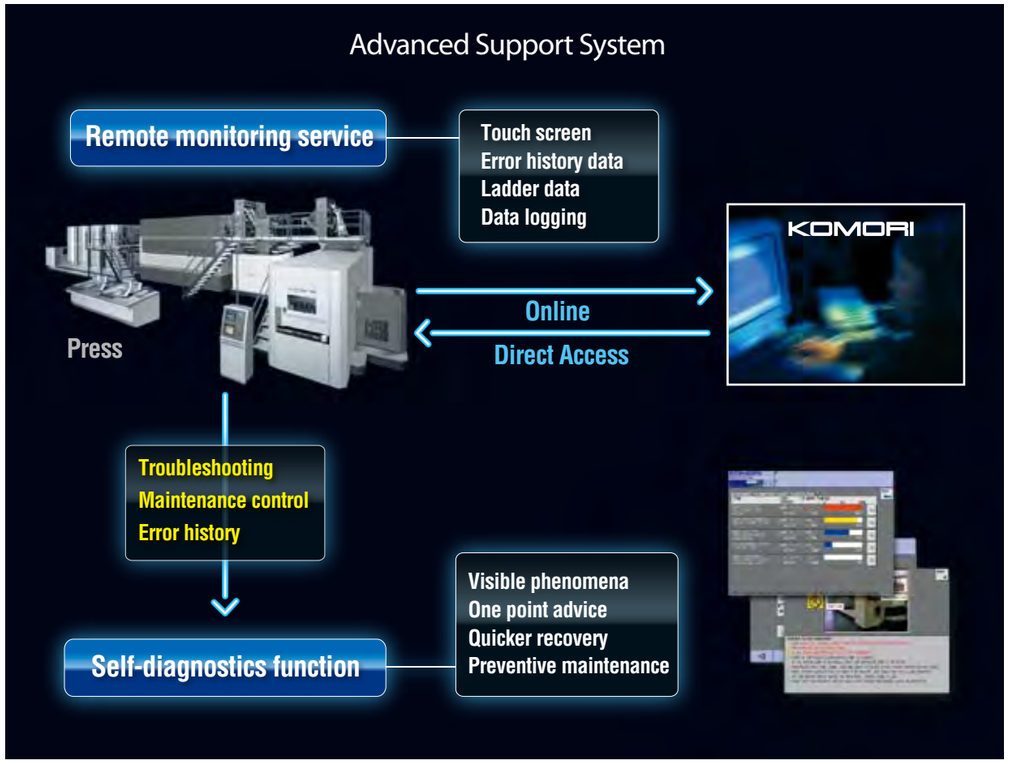
KHS-AI and JDF environment





SYSTEM-WIDE RELIABILITY

Komori understands the level of support needed for high-capacity 24h/7-day production machinery
such as the System 38D and has designed an intelligent technical support system
into the easy-to-use KHS-AI system in the operation console.
Komori also deploys a seamless network of online service engineers, strategically sited parts depots
and layered backup to ensure rapid recovery in any situation. Reliability must be system-wide.
The press features advanced self-diagnostics that permit rapid troubleshooting and
maintenance control and also provide an error history.
KHS-AI supports the operator in handling routine conditions.
And remote monitoring allows Komori to 'see' into the press over the network
when remote troubleshooting and support are needed.
Beyond the hardware and software,
Komori has the people and infrastructure to keep the System 38D running. Constantly.



SPECIFICATONS

General Specifications	
Model	LR-438/1250II
Maximum printing speed	40,000IPH(80,000CPH/16P)
Cutoff	578mm, 625mm
Maximum web width	965mm
Non-printing gap	9mm (theorètical - 1 color with unit phasing)
Paper stock range	40～130g/m

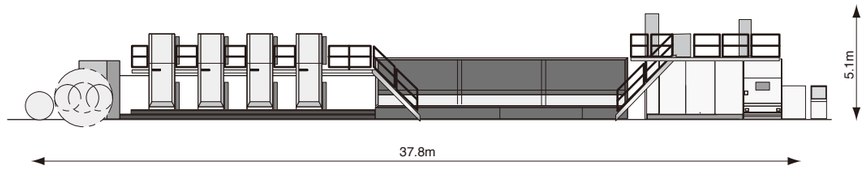
SYSTEM 38D — **DC Double Chopper Combination Folder**

SIGNATURES — Maximum production speed 39,000IPH (78,000CPH/16P)

First fold | Double parallel fold | Delta fold | Chopper fold

Full Web	A3x8p	A5x2x16p	12p	A4x16p	24p
Slit 1/3 Ribbons Shift	A4x12p	A5x2x24p	18p	A6x2x24p	
Slit 1/2 Ribbons Shift	A4x16p	A5x32p	24p	A6x2x32p	
Collect					
Full Web	A3x16p	A5x2x32p		A4x32p	

OUTLINE



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