

Technical Parameters

Model	Kirin440 (Standard)		Kirin440/560/660 (Professional)	
Technology	Single Pass, Piezoelectric Inkjet			
Printing Method	Monochrome Double-Side			
Ink Type	Water-based Pigment			
Max. Resolution	1200 * 600 DPI		1200 * 600 DPI	1200 * 1200 DPI (Double Printheads)
Max. Printing Speed	100 m/min		100 m/min	150 m/min (Double Printheads)
Media Types	Inkjet Treated, Wide Range of Standard Coated and Uncoated Offset Media, Other Papers Subject to Testing from 45-165 gsm			
Media Thickness	45-165 gsm			
Max. Media Width	440 mm		440 mm/560 mm/660 mm	
Max. Printing Width	432 mm		432 mm/540 mm/648 mm	
Max. Media Diameter	1270 mm			
Transportation Method	Roll to Sheet		Roll to Roll, Roll to Sheet (optional)	
Equipment Dimensions				
Dimensions	9360 * 1720 * 2100 mm (Roll to Sheet)		8150 * 2050 * 2060 mm	
Power Supply	AC380 V/50 Hz			
Power Consumption	Printer: 22 kW; Drying: 15 kW		Printer: 35 kW; Drying: 30 kW	
Drying	Infrared Air Drying			
Air Supply	Industrial Air Supply: 0.6-0.8 Mpa, Dry, Clean, And Free Of Condensation			
Working Environment				
Temperature	18-24 °C			
Constant Humidity	40-60% (Non-condensing) Independent, Clean, Low Dust, Low Light Exposure, Well-ventilated			



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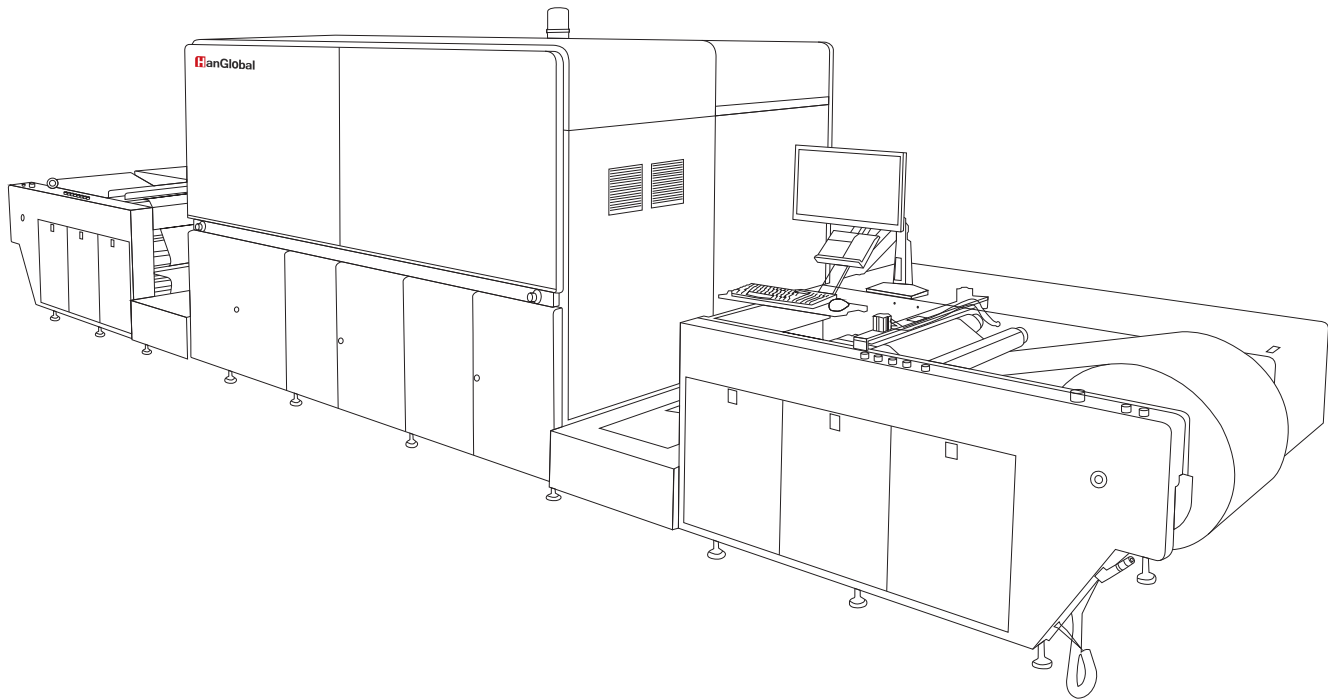
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V2.0/2023



Kirin440/560/660

MONOCHROME DIGITAL INKJET SOLUTIONS



MONOCHROME DIGITAL INKJET PRINTING SYSTEM

Printing quality meets international standards on publication, government documents, industrial user manuals and other POD requirements.

Optional Width: 440 mm / 560 mm / 660 mm Max. Resolution: 1200 * 1200 DPI Max. Printing Speed: 150 m/min



Kirin440 (Economic Monochrome Printing Solution)

- Max. Printing Speed: **100 m/min**
- Max. Resolution: **1200 * 600 DPI**
- Max. Printing Width: **432mm**

Significantly Increased Production Capacity to Meet POD

- Equipped with industrial-grade piezoelectric ceramic print heads, achieving enhanced productivity.
- Supports seamless job changes while maintaining print quality that meets international standards for national book and publication printing.
- Self-developed quick-drying ink allows for grayscale printing as low as 5 pl, resulting in finer images and sharper text.
- Enables on-demand digital inkjet printing, transforming production processes, reducing costs, and supporting both large-scale production and small-batch customization.

Resolution Configuration for Ensuring Stable Printing Quality

- Integrated framework body with high processing resolution and structural stability.
- Integrated inkjet control system that monitors various components of the inkjet printing system in real time.
- Utilizes active unwinding with a multi-node tension control system, ensuring high precision and minimal tension fluctuations. Additionally, the paper path design for two-sided printing without a turn bar mechanism ensures stable web tension and precise in registration.
- Equipped with international top brands' alignment devices, motors, electromagnetic valves, and electronic components to ensure long-term equipment stability in production.
- Can be configured with a printhead water cooling system to ensure stable printhead operation.

Core Independent R&D Capabilities

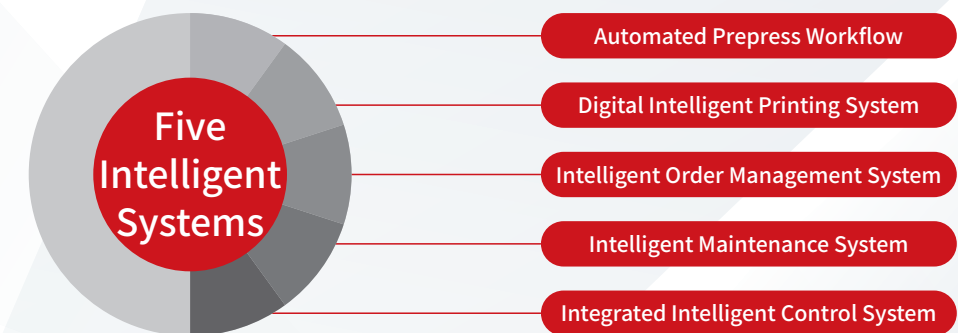
- Holds independent intellectual property for digital inkjet technology and develops core software, mechanical platforms, inkjet systems, and more.
- Collaborates with print head manufacturers, accumulating over a decade of experience in high-speed industrial print head research and application, mastering core print head driving technology for exceptional inkjet performance.
- Self-developed water based inks, creating an inkjet industry ecosystem. Quick-drying ink meets green environmental standards, fast dries, reduces energy consumption in drying systems, and offers stability for various paper types, with controlled costs.
- HanGlobal Digital Printing and Cutting System (Optional)

Efficient and advanced cutting technology enables efficient roll-to-sheet cutting, staggered bookbinding, and stable cutting for various specifications and sizes, with a maximum cutting speed of **100m/min**.



Kirin440/560/660 (Professional Monochrome Printing Solution)

- Max. Printing Speed: **100 m/min; 150 m/min** (Double Printheads)
- Max. Resolution: **1200 * 600 DPI; 1200 * 1200 DPI** (Double Printheads)
- Max. Printing Width: **432 mm / 540 mm / 648 mm**



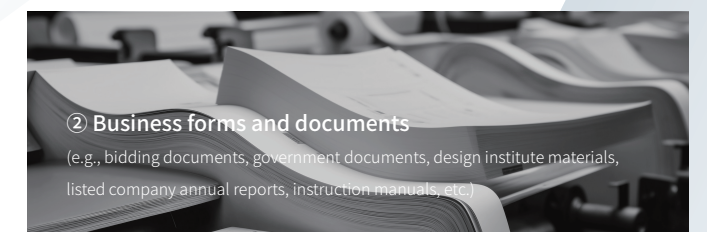
Comprehensive Solution

- HanGlobal provides end-to-end comprehensive solutions, including pre-press processing, printing, cutting, and ink supply.
- Options: Roll-to-Roll Solution / Roll-to-Sheet Solution

Suitable for Various Printing



① Books and magazines printing
(e.g., POD books, short-run books, self-published books, professional books, library collections, etc.)



② Business forms and documents
(e.g., bidding documents, government documents, design institute materials, listed company annual reports, instruction manuals, etc.)



③ Educational materials and exam papers



④ Newspapers and journals
(e.g., short-run newspapers, business journals, etc.)