# 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 | | |

# Kirin440/560/660

## MONOCHROME DIGITAL INKJET SOLUTIONS
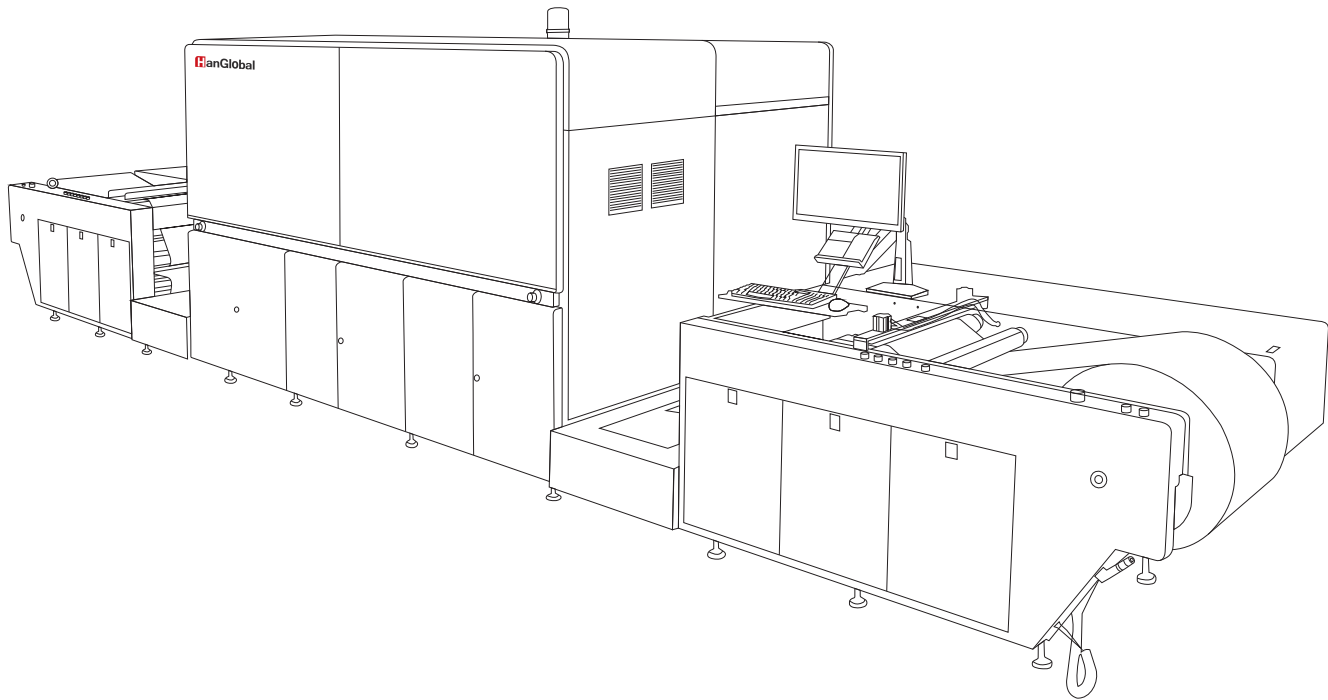


## MONOCHROME DIGITAL INKJET PRINTING SYSTEM

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: **432** mm

# 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

## 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.

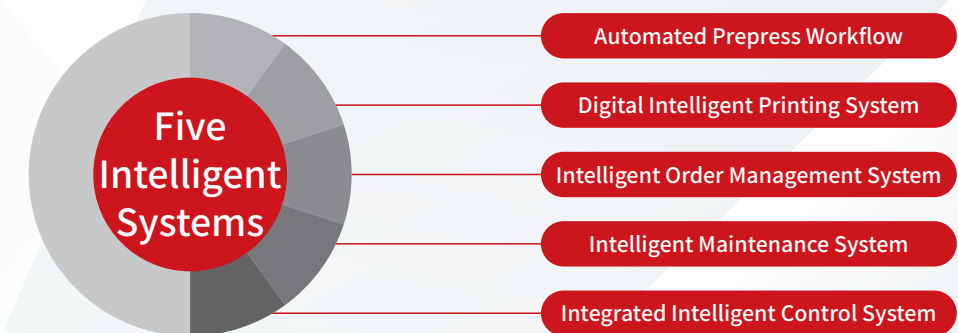## Core Independent R&D Capabilities

- 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 **100** m/min.

## Five Intelligent Systems

- Automated Prepress Workflow
- Digital Intelligent Printing System
- Intelligent Order Management System
- Intelligent Maintenance System
- Integrated Intelligent Control System

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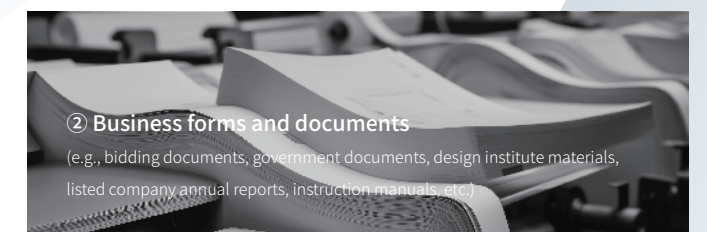
② Business forms and documents
(e.g., bidding documents, government documents, design institute materials, listed company annual reports, instruction manuals, etc.)

③ Educational materials and exam papers

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