



KONICA MINOLTA

News Release

Konica Minolta Launches the KM1800iSHK-DC, a New Inkjet Printhead Capable of Jetting Two Colors of Ink Raising Productivity in Sign Graphics, Packaging, and Logistics

Tokyo (September 24, 2025) – Konica Minolta, Inc. (Konica Minolta) today announced that the Company has launched the KM1800iSHK-DC, which is capable of jetting two colors of ink from a single printhead, as a new product of the KM1800i series of industrial inkjet printheads with an extended print width suitable for high-resolution, high-speed printing. The product will be exhibited at PACK EXPO Las Vegas, which will be held in Las Vegas, U.S. from September 29, 2025, and at PRINTING United Expo, which will be held in Orlando, U.S. from October 22, 2025.



Values Provided by the KM1800iSHK-DC

Installation Process and Space Reduced by the 24 mm-Thick Two-Color Printhead

Printers for sign graphics such as posters and signboards, and packaging, including labels and packages, use four colors of ink, which are indicated by CMYK.*¹ Each of Konica Minolta's conventional inkjet printheads is capable of jetting one color of ink. In contrast, the KM1800iSHK-DC can jet two colors*² of ink from a single printhead thanks to the new structural design. In addition to this two-color capability, the printhead also features a thin profile with a thickness of just 24 mm, making it possible to reduce the number of printheads in a print head carriage as well as the installation process and printhead installation space.

High-Resolution Printing on Curved and Rough Surfaces Realized by Superb Long Throw Distance Performance

The KM1800iSHK-DC also features a superb long throw distance performance, which enables printing with high image quality on target objects 10 mm*³ away from the jetting nozzles. The long throw distance enables printing even on base materials where the distance from the nozzles to the printing surface varies, such as curved and rough surfaces, making the printhead suitable for printing on three-dimensional objects as well. The distance between the inkjet printhead and a target object reduces the chance of failure of printheads installed in print head carriage due to strikes during transfer or of damage to the target object, reducing downtime in operation.

Saving Time by a Mounting Structure That Facilitates Alignment

Printing with high image quality is crucial in the field of sign graphics. To realize printing with high image quality, ink must be jetted to accurate positions from nozzles. This requires precise alignment between the inkjet printhead and nozzles. The KM1800iSHK-DC employs a mounting structure that facilitates printhead alignment,

reducing the time required for alignment.

Product Design for Current Customers' Usability, in Addition to High-Resolution Printing by the Thin Structure

The narrow width between nozzle rows due to the thin product structure enables high-resolution printing when two colors are used. To enhance usability for customers who use the conventional KM1800i printheads, the product is designed to make it easy to upgrade from these printheads.

About the KM1800i Series

The series embodies Konica Minolta's key inkjet printheads which are widely used in such applications as sign graphics, labels and packaging, coding and marking, printed circuit boards (PCBs), and flat panel displays (FPDs), including LCDs, because of their suitability for high-speed, high-resolution printing.

Capable of High-Speed Printing, in Addition to Top-Tier Resolution Among Konica Minolta's Printheads

The proprietary structural design, in which 1,776 nozzles are arranged (on the printhead) with a high density of 600 npi,^{*4} featuring an extended print width of 75 mm, is combined with high-speed driving technology to realize fast printing and excellent productivity.

Stable Jet Performance

The product structure, which demonstrates stable inkjet performance with a proprietary customized design, supports various inks. The inkjet printhead incorporates a heater to enable application of highly viscous inks.

Main Specifications of the KM1800iSHK-DC

Product name	KM1800iSHK-DC
Number of nozzles	1776
Print width	75mm
Resolution	600npi
Dimensions	W:135mm×D:24mm×H:107mm
Maximum jetting frequency	75kHz
Drop volume	5.5pl
Ink viscosity	8~12mPa · s
Heater	Yes
Inks	UV, solvent, oil
Weight	250g
Grayscale level	Up to 16

Customer Contact

[Inquiry form](#)

Sales Division, IJ Component Business Unit, Konica Minolta, Inc.

^{*1} CMYK: An abbreviation for cyan, magenta, yellow, and key or black, the four process colors used to reproduce the colors of printed matter.

- *2 The resolution is 300 npi when two colors are used, and 600 npi when one color is used.
- *3 In the case of printing on corrugated cardboard. This is a verification example under Konica Minolta's own driving conditions, and is not a guaranteed value.
- *4 npi (nozzles per inch)

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