MODULAR INKJET / PRODUCT GUIDE

KD SERIES

Combine print directions freely

Intelligent siphon ink supply / Flexible dual-printhead layout / Quick standard-module changeover



Control unit and four compact head modules shown; one system connects up to two heads.

01 / Multiple print directions

Choose print faces for the production-line layout

KD supports downward, side, upward and angled printing. Two heads can have separate mounting directions.



Downward | Side | Upward | Angled

One control unit can place two heads at different stations or faces, such as one downward and one sideways.

Flexible directions still require site validation

Separate stations	Two heads can serve two orientations or two production lines.
Multi-face combinations	Print separately on two faces of the same product.

For upward or steeply angled mounting, test ink supply at the nozzle face, print distance, drop placement and curing conditions.

02 / Dual-head solutions

Stitch in one direction or divide work across directions

One system connects up to two head modules; their arrangement follows the product faces and line layout.

01 / WIDE

Seamless stitching on one face

Offset and stitch two same-direction heads for wider printing. Calibrate the seam through mounting, synchronization and sample tests.

02 / MULTI-SIDE

Synchronized printing on different faces

Heads can face the side, top or bottom to print different content on different faces.

03 / DUAL STATION

One control unit for two stations

Configure triggers and jobs for two heads at separate print positions.

04 / CONFIGURE

Speed and width tradeoffs

Choose head stitching or repeated layouts for the job; verify actual speed for head, DPI and content.

Place each head where it fits the job

The control unit manages operation and jobs; head modules provide the required width and drop configuration. Heads may face different directions and print different content, reducing the need for another complete machine at complex stations.

03 / Ink-supply method

Intelligent siphon supply for multiple orientations

Match ink-level height to head conditions for the required supply, with refill and liquid level managed by configuration.

Siphon ink-supply approach

The ink path and liquid-level difference provide back pressure at the nozzles, reducing reliance on separate electronic pressure adjustment. Stable meniscus pressure is still needed; tune each orientation, ink and hose height separately.

01

Simple ink path

Fewer pressure-adjustment steps simplify layout and maintenance.

02

Supports module layouts

Allows ink-supply configurations for two head orientations.

03

Visible liquid level

Include refill and level status in routine checks.

Ink supply depends on viscosity, surface tension, level, tube length and orientation. Circulation or agitation for settling inks is project-specific.

04 / Modular architecture

Change head modules to extend capability

Seven head module types follow a common interface plan. For upgrades, replace the head module and check drive and ink-path configuration.

Standard connections

Head modules use a standardized 29-pin cable and detachable ink tubing. When changing modules, confirm pinout, drive settings and ink compatibility against the delivered harness definition.

STEP 01

Choose print width and resolution

Choose the head module by print height, native resolution and target line speed.

STEP 02

Replace module and connections

Remove and install the head module, cable and ink tube; verify hardware interfaces for the configuration.

STEP 03

Verify printing settings

Load the matching drive, ink and print settings, then check samples.

Module upgrades can reuse the control unit. Available modules, maximum head count and drive compatibility depend on the delivered version.

05 / Model specifications

Seven modules selected by width and resolution

“/” denotes different drop-volume or speed versions. Confirm the matching head module and ink solution when selecting.

Parameter	KD50	KD60	KD70	KD70 Plus
Print height / mm	32.4	54	72	72
Native resolution / dpi	300	300	180	360
Rated speed / m/min	220	140	70 / 54	50 / 35
Drop volume / pL	3	5	35 / 50	12 / 35

Read rated speed with its test conditions

Listed speeds use native horizontal and vertical resolution in single-drop mode, in m/min. Actual line speed also depends on ink, content, waveform, orientation, spacing and line integration.

06 / Model specifications

Select by content density and line speed

Change head modules on the same control unit for different widths, drop volumes and resolutions.

Parameter	KD100	KD200	KD300
Print height / mm	32.4	54	54
Native resolution / dpi	300	600	600
Rated speed / m/min	220	110	150
Drop volume / pL	7	7	5

How to choose

Start with width	Choose modules for single-face print height and dual-head stitching needs.
Then test quality	Test with actual content, ink and target speed.

07 / Machine configuration

One operating platform, flexible job-specific combinations

A 13.3-inch 1080P touchscreen works with variable data, line signals and head modules.

Touchscreen platform	13.3-inch capacitive touchscreen; 1080P display.
Printheads and modules	Up to 2 printheads per system; modular replacement through standardized interfaces.
Print content	Text, images, PDF, 1D barcodes, QR codes and database content.
Production-line integration	Gigabit Ethernet, USB, RS232 and project I/O; supports remote-control development.
Ink compatibility	Select water-based, oil-based or UV-curable ink for the module and project.
Standard ink tube	Standard length 2.5 m; longer lengths are available on request.
Control-unit power	The KD70 Plus standalone configuration lists AC 220 V / 100 W / 0.5 A; verify other configurations by project.

08 / Applications and delivery

Configure for the on-site station

Choose head modules and dual-head layout by print face, line speed, content and ink, then validate with samples.

01 / SURFACES

Multi-face marking

Print content on different faces of boxes, panels and similar products.

02 / STATIONS

Multiple lines or stations

Two heads can serve different stations according to line timing.

03 / WIDTH

Wide-format printing

Stitch on one face to increase print height and tune the seam on site.

04 / UPGRADE

Future upgrades

Replace modules for new jobs while reusing the control unit and operating platform.

Provide for system selection

Material samples / Ink requirements / Print direction / Single-face width / Content and DPI / Target speed / Dual-head layout / Mounting distance

FHES

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