

INDUSTRIAL INKJET / SERIES GUIDE

VD SERIES

Downward printing with precise ink supply

Intelligent negative-pressure ink supply / Dual-module width stitching / Seven printhead configurations



Illustrative VD control unit and dual-head modules; appearance varies by configuration.

One platform for different print jobs

The VD Series is designed for downward-printing stations, with modules selected for width, resolution, drop volume and speed.

01 / PLATFORM

One operating platform

A 13.3-inch industrial touchscreen centrally manages layouts, jobs, ink status and maintenance.

02 / MODULE

Up to two modules

Use one module or stitch two in the same direction to increase effective print width.

VD Series design constraints

Heads are designed for downward printing. When stitching, keep both modules oriented the same way and tune the seam for actual content, mounting distance and synchronization signals.
Select matching modules, drives and ink paths for each model.

Applicable stations

Packaging lines, panels and other stations printing onto products from above.

Selection starting point

First determine print height, target line speed, native resolution and ink requirements.

Intelligent negative pressure stabilizes nozzle operation

Manage head supply, refilling, temperature and cleaning in one configurable, observable ink-path workflow.

Integrated intelligent negative-pressure supply

Negative-pressure control maintains the ink meniscus at the nozzle face, reducing seepage and ink-starvation risks. Refill and level status can be monitored during long runs.

01 / PRESSURE

Negative-pressure settings

Common set range 0.30-6.00 kPa, setting step 0.01kPa.

02 / REFILL

Automatic refilling

Independent refilling on A/B paths, with secondary liquid-level detection and status prompts.

03 / THERMAL

Ink-path temperature control

Temperature settings for two paths, in 1 °C increments.

04 / CARE

Maintenance actions

Use one-touch cleaning, ink purging and fault diagnosis as configured.

0.01 kPa is a setting increment, not an accuracy claim for pressure control. Circulation, agitation and ink compatibility depend on the specific ink path and tests.

One head alone, or two heads stitched in one direction

Up to two head modules can be arranged in the same direction to stitch a wider print area.

01 / SINGLE

Single module

Choose one module for content and print height to save space.

02 / WIDE

Dual-module width stitching

Offset two same-direction modules and calibrate the seam using mechanical position and synchronization settings.

03 / CHANGE

Replace modules

Replace modules for new width or resolution needs after confirming drive, cable and ink compatibility.

04 / DELIVERY

Project validation

After stitching, check print spacing, drop placement, trigger delay and seam consistency.

Reuse the control platform when upgrading

Confirm connections, electrical drive, ink path and software settings for the target head. The delivered configuration defines actual compatible modules and maximum stitched width.

From layout design to line integration

One interface links layout editing, variable data, job management and line integration.

Layouts and content	Text, images, PDF, 1D barcodes, QR codes and multi-line layouts.
Variable data	Generate dates, counters, serial numbers and database fields by job.
Job management	Template preview, settings and job switching; duplicate-code prevention can be configured by project.
System interfaces	Gigabit Ethernet, USB and RS232; TCP/IP and project I/O integration.
Production software	Easyprint; optional LabelBridge and remote-data integration by project.
Status diagnostics	Pressure, temperature, liquid level and ink-path action status support troubleshooting.

Confirm software functions, accessible interfaces and external integration scope for the selected version and site communication plan.

Seven models selected by width and speed

The following follows the source VD model table; different drop volumes require different head modules.

Parameter	VD100	VD200	VD300	VD70
Print height / mm	32.4	54	54	72
Native resolution / dpi	300	600	600	180
Drop volume / pL	7	7	5	50

Rated speed / m/min	220	110	150	68
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Speed note

Rated speeds are for each head at native horizontal and vertical resolution in single-drop mode, in m/min. Validate production speed with actual content and ink samples.

From detail resolution to production pace

With the same control unit, head modules trade off native resolution, drop volume and speed.

Parameter	VD70M Plus	VD70 Plus	VD70S
Print height / mm	72	72	72
Native resolution / dpi	360	360	360
Drop volume / pL	12	35	30

Rated speed / m/min	51	35	114
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Selection and stitching note

Choose a 72 mm model for target line speed, content density and drop-volume needs. For same-direction stitching, confirm seam, trigger synchronization, print distance and final result with samples.

Shared platform, configured for head and ink

These are general series configurations. Confirm the delivered scope by model, ink-supply solution and order.

Control platform	13.3-inch industrial capacitive touchscreen with a shared interface.
Printheads and orientation	Up to two head modules; downward printing only.
Ink options	Select oil-based, UV-curable or water-based ink for the head, substrate and project.
Synchronization and integration	Configure encoder, fiber-optic sensor and line trigger by project.
Standard conduit	Standard length 2.5 m; longer lengths are available on request.
Enclosure and power	Powder-coated control unit; AC 100–240 V / 50–60 Hz / 2 A.
Maintenance and consumables	UV curing, wipes and other accessories depend on the order.

Apply series capabilities to the actual line

Use print height, line speed, content density, ink and material to confirm head modules and dual-head layout.

01 / WIDTH

Set print width first

Determine whether one module covers the target height or two same-direction modules are needed.

02 / SPEED

Then check line speed

Shortlist by rated speed at native DPI, then test-print actual artwork and ink.

03 / INK

Check the substrate

Provide the substrate to confirm oil-based, water-based or UV-curable ink and adhesion.

04 / LAYOUT

Validate the station

Confirm downward-printing space, print distance, trigger synchronization and maintenance access.

Provide for system selection

Product material / Print content / Print height / Target speed and DPI / Ink requirements / Single- or dual-module layout



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