

MODULAR INKJET / PRODUCT GUIDE

# LD SERIES

## Compact size, flexible integration

Intelligent siphon ink supply / Multi-angle printing / Cascaded printheads



Illustration of a downward-printing station with two heads. Head count, control modules and mounting method are project-specific.

# A modular platform for compact lines

The compact control unit and ink path fit space-limited stations and simplify distributor transport, installation and service.

## 01 / COMPACT

### Compact integration

Small modules suit tight installation spaces, including inside equipment or on short conveyors.

## 02 / 304 STEEL

### Stainless-steel enclosure

The 304 stainless-steel structure is easy to clean and suits lines with higher equipment-surface and hygiene requirements.

## 03 / MODULAR

### Reusable module upgrades

For a different print width or resolution, replace the matching printhead module and verify its drive and ink path.

## 04 / FAST START

### Fast installation and delivery

The machine is easy to move; standard modules reduce on-site assembly and later replacement time.

## Core value of the LD Series

Compact design and reusable modules help control purchase, installation and service costs. Select heads for the station and expand modules with capacity needs.

# From multiple heads on one module to cascaded expansion

One module can drive up to four heads in a downward-printing configuration. Cascade modules to expand capacity.

## Up to 4 heads / module

In a downward-printing layout, one control module can connect up to four heads. Arrange them for print height, content zones and line layout.

Cascaded modules

Cascade control modules to expand the number of manageable heads.

Unified software

One software system manages jobs and settings for cascaded heads.

Expand as needed

Set the single-module configuration first, then expand controls, ink supply and synchronization for added capacity.

The four-head limit applies to one module in a downward-printing configuration. Verify total head count, synchronization and actual line speed for cascaded systems in the delivery plan.

# Intelligent siphon ink supply for multiple angles

Position heads downward, sideways, at an angle or upward according to the product. Tune ink supply for each installation orientation.

## 01 / SIPHON

### Intelligent Siphon Ink Supply

Use ink level and tubing configuration to establish stable supply and reduce complex on-site adjustments.

## 02 / ANGLE

### More than one print direction

Choose downward, side, angled or upward printing for the station.

## 03 / ADJUST

### Quick mounting adjustments

Arrange heads, brackets and ink-path modules for the available space to speed station adaptation.

## 04 / VERIFY

### Confirm results with samples

For each orientation, verify ink supply at the nozzle face, drop placement, print distance and curing or drying.

## Stable ink supply at every angle

Orientations may require different ink level, tube length, liquid level and nozzle-face conditions. Confirm upward printing and similar solutions through actual configuration and continuous-running tests.

# Six models, selected by print width and resolution

Choose the head module by head type, print height and native resolution.

| Parameter               | LD50   | LD60 | LD70 | LD70 Plus | LD100 | LD200 |
|-------------------------|--------|------|------|-----------|-------|-------|
| Printhead model         | GH2220 | CE4  | 510  | 1020      | GEN4  | GEN5  |
| Print height / mm       | 32.4   | 54   | 72   | 72        | 32.4  | 54    |
| Native resolution / dpi | 300    | 300  | 180  | 360       | 300   | 600   |

## Speed conditions

The series addresses applications from 0 to 60 m/min. Determine actual speed for the selected head and native-resolution condition using print content, ink, waveform and line tests. Verify each configuration separately.

# Configure a compact platform for each station

Select control module, head, ink path and interfaces for the print job. The order defines the delivered configuration.

|                          |                                                                                                 |
|--------------------------|-------------------------------------------------------------------------------------------------|
| Printheads and cascading | Up to 4 printheads per downward-printing module; modules can be cascaded.                       |
| Enclosure material       | 304 stainless-steel structure; brackets and accessories are project-specific.                   |
| Print content            | Text, images, PDF, 1D barcodes, QR codes and database content.                                  |
| Control and language     | One software system manages cascaded modules; multilingual operator interface.                  |
| Printer interfaces       | Gigabit Ethernet, USB and RS232; production-line I/O is project-specific.                       |
| Ink types                | Oil-based, water-based and UV-curable inks; select color and adhesion for the material.         |
| Print modes              | Single-shot or continuous printing; choose mounting orientation for the station and ink supply. |

## Clear fault location and faster module replacement

Modular architecture simplifies on-site diagnosis and replacement by customers or distributors.

### 01 / FWS

#### Fault-code prompts

The FWS fault-alarm system displays codes. One-touch cleaning and liquid-level prompts support routine operation.

### 02 / REPLACE

#### Modular replacement

Replace the relevant module when an on-site fault cannot be resolved quickly to restore production.

### 03 / SERVICE

#### Shorter maintenance time

Standard spare parts and interfaces simplify on-site replacement and reduce waiting and service time.

### 04 / LOGISTICS

#### Easy transport and installation

Its compact size allows several units in an ordinary passenger vehicle, supporting flexible distributor deployment.

## From alarm to production restart

Read fault code → inspect the relevant module and connections → replace or repair on site → verify printing and ink supply. Keep suitable spare modules and follow shutdown and power-isolation procedures.

## Integration for clean and demanding environments

The 304 stainless-steel enclosure is easy to clean. Assess actual corrosion resistance for on-site substances and cleaning methods.

### 01 / FOOD

#### Food and beverage

Print dates, batch numbers and traceability data at compact stations while allowing equipment-area cleaning.

### 02 / MEDICAL

#### Pharmaceuticals and personal care

For packaging lines that emphasize external cleaning and changeover efficiency.

### 03 / CHEMICAL

#### Chemicals and industrial materials

Check stainless-steel and ink compatibility for solvents, cleaning agents and environmental conditions.

### 04 / OEM

#### Equipment integrators

Compact enclosure and modular interfaces simplify embedding in existing machines and reduce installation lead time.

## Selection involves more than enclosure material

Verify ink adhesion, hygiene requirements, corrosive substances, print angle and line speed with samples and installation conditions. Protection rating and contact-material requirements depend on the delivered configuration.

# Set the final configuration for the print job

The photo shows a dual-head downward-printing station. Choose models, cascading and options for site needs.

Start with print height      Choose 32.4, 54 or 72 mm and decide whether dual-head stitching is required.

Then check quality and pace      Test native resolution with actual content, ink and target line speed.

Finally check the station      Downward or side printing, mounting distance, trigger, encoder and cable routing.

## Provide for system selection

Print content / Material samples / Print width / Target line speed / Print orientation / Ink requirements / Line installation drawing



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