

# EVOLUTION LX™

High Resolution  
Ink Jet Printer

## Ink Jet Printer Series

**EVOLUTION LX** is the next generation in High Resolution Ink Jet printers. The **LX** series delivers greater print distance and higher ink yield per cartridge with the same features as the original **EVOLUTION**.



### A Complete System

**EVOLUTION LX** is complete and ready to install right out of the box.

The system includes the mounting bracketry, a hand held controller with tactile keypad for message entry, a printhead module with internal product sensor and power supply.

### Lexmark Inkjet Technology

Designed and manufactured by Digital Design, **EVOLUTION LX** is driven with ink jet technology by Lexmark™. This combination gives you the benefits of an affordable, compact, and efficient design coupled with the reliability of printhead technology by Lexmark.

### Optimum Print Resolution 300 or 600dpi

**EVOLUTION LX** delivers bold, highly legible and fully formed characters in a print resolution of 300 or 600dpi at production line speed of up to 200 feet per minute.

### Ink Supply

Built into the printhead is an internal ink reservoir. Once the ink in the cartridge is depleted, it can be taken out, disposed of and a new ink cartridge inserted in just seconds.

And, the printhead drivers developed by Digital Design for the Lexmark™ cartridge deliver an approximate 20% increase in the number of printable characters.

### Breakaway Printhead Protection

Cartons traveling on a typical powered conveyor or going through a case taper can sometimes come through skewed or off center. The horizontal adjusting rod that holds the **LX** printhead module has been designed with a breakaway feature that moves the printhead out of harms way should the carton come in contact with it. A detent in the assembly allow you to securely snap the printhead module back into position after the misaligned carton has passed.

### Two LX Versions Available

**EV1-LX-SYS** starts off as a basic system that will print either one line of 1/2" high characters or two lines of 7/32" characters. No additional software is included as standard. There are a number of software options for the **EV1-LX** that add memory, extended message length, sequence numbering, time and date formats, and more. Please see our Options Brochure for a complete listing and description.

**EV2-LX-SYS** is a fully loaded system which includes all of the optional **EVOLUTION I** software as standard. **EV2-LX** can print one line of 1/2", two lines of 7/32", three lines of 1/8" or four lines of 3/32".

Eight of the more popular barcode symbologies built in to the **EV2-LX**. These barcodes include: I 2 of 5, Code 39, UPC-A, UPC-E, 128 B, 128 C, EAN 8 and EAN 13. Data Matrix is available as an option.

Optional fonts sizes and styles are available for all both models.

### Add-On Printheads

Adding another printhead is as simple as sliding it on. Each printhead module is manufactured with a dovetail slot on one side and a dovetail slide on the other. You can attach up to three additional printheads on a single bracket by inserting the slide on one into the slot on the other. A small RS 485 data cable is then used to connect the modules. This allows the hand held controller to network all of the printheads on the production line.

**EVOLUTION LX** printheads are compatible with **EVOLUTION I and II** printheads and can be added on to existing systems in the field.



EVOLUTION LX Controller and LX2 printhead module

# Technical Specifications

Standard/Optional Hardware and Software Features	EV1-LX-SYS	EV2-LX-SYS
Hand Held Controller	S	S
Printhead Module with internal product sensor	S	S
Mounting bracketry for side coding applications	S	S
Alpha/Numeric Character Set with special characters	S	S
Ability to control up to 32 printheads via RS 485	S	S
Mixed Raster Printing	N/A	S
Character Heights: 1/2" in one line, 7/32" in two lines	S	S
Character Heights: 1/2", in one line, 7/32" in two lines, 1/8" in three lines, 3/32" in four lines	N/A	S
Alternative font styles and character heights	O	O
24/48 Character message length per line of text	24	48
Message Storage: Up to 100 messages in Controller	O	S
Programmable line speed, Print direction and Print delay	S	S
Inter-character spacing, Inverted print	S	S
Variable Time and Date formats, Sequential numbering, Shift coding, Date offset, Automatic message repeat, Password protection	O	S
Multiple language prompts: English and Spanish	S	S
EV-Net Software for PC control of up to 32 Evolution printers	O	O

S = Standard O = Optional N/A = Not Available

## Production Speed

Up to 200 feet (61m) per minute @ 300dpi

## Ink Supply

Cartridge volume: 42ml  
 Porous Colors: Black, Blue, Red, Green, Yellow, UV Visible  
 Semi-Porous Colors: Black, Blue, Red  
 Non-Porous Color: Black  
 Low ink monitoring

## Power Required

110-240 VAC, 50-60Hz 0.5A

## Environmental

50F - 104F (10C - 40C)  
 Up to 80% RH non-condensing

## Physical Dimensions

Controller: 4.125" wide x 8.750" long x 1.500" deep  
 Printhead module: 2.5" wide x 4" deep x 3" high

**Authorized EVOLUTION Distributor:**

## Software Options

Alternate font heights and styles  
 Logos  
 Evolution-Net  
 Message storage, extended message length, date and time formats, sequence numbering and more.  
 See our Options Brochure for a complete description

## Hardware Options

Add-on printhead modules  
 Spring loaded carton follower  
 Top coding bracket  
 External sensor  
 External encoder  
 External Low Ink Beacon

## Networking Capabilities

The hand held controller has the capability of controlling up to 32 individual printhead modules through via a RS 485 data link. The printhead modules have a discreet address which is used to identify them for message entry functions and are inter-connected with a CAT 5 style cable. Complete PC control of the **EVOLUTION** network through our **EVOLUTION-NET** software is available as an option.

Ink Jet Technology by



Lexmark is a registered trademark of Lexmark International, Inc. registered in the United States.

**digital design. inc.** 67 Sand Park Road, Cedar Grove, NJ 07009

• (800)967-PRINT • (973)857-0900 • FAX: (973)857-0607

• Internet: [www.evolutioninkjet.com](http://www.evolutioninkjet.com) • E-mail: [sales@evolutioninkjet.com](mailto:sales@evolutioninkjet.com)