

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: 1 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



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