

EVOLUTION LX™

High Resolution Ink Jet Printer

Ink Jet Printer Series

EVOLUTION LX STC 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 color touch screen controller 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 speeds 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% decrease in the Total Cost of Ownership.

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 allows you to securely snap the printhead module back into position after the misaligned carton has passed.



EVOLUTION Color Touch Screen Controller



Color Touch Screen Controller

The Touch Screen Controller utilizes a large 4.3" (diagonal) color display which guides you through message entry in a very user friendly manner. A stylus is included and snaps back into place on the controller when not in use.

Two LX Versions Available

EV1-LX-STC 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-STC** 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-STC is a fully loaded system which includes all of the optional **EVOLUTION I** software as standard. **EV2-LX-STC** 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 are built in to the **EV2-LX-STC**. 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 touch screen controller to network all of the printheads on the production line.

Technical Specifications

Standard/Optional Hardware and Software Features	EV1-LX-STC	EV2-LX-STC
Color Touch Screen 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
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, Spanish, French and German	S	S
Message Storage: Up to 200 messages in Controller Each message can have it's own unique name.	O	S
Back up stored messages on Data Flash Card	O	S
Automated message recall with optional USB Bar Code Scanner	O	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
 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: 4.500" wide x 3.000" long x 1.000" 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 Touch Screen Controller has the capability of controlling up to 32 individual printhead modules through via a RS 485 data link.
 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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