**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.
## Technical Specifications

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

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

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**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.

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**Authorized EVOLUTION Distributor:**

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

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