

# EVOLUTION I™

## Ink Jet Printer Series

## High Resolution Ink Jet Printer

**EVOLUTION I** is a High Resolution ink jet printer. It is the first in a series of printers that has been designed at a price competitive with contact style "roller coders" still being used in production today.



### A Complete System

**EVOLUTION I** 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 and the printhead module with internal product sensor.

### Inkjet Technology by Hewlett Packard

Designed by Digital Design, the **EVOLUTION I** is powered with ink jet technology by Hewlett Packard. This combination gives you the benefits of an affordable, compact, and efficient design coupled with the reliability of printhead technology by Hewlett Packard.

### Optimum Print Resolution

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

### Variable Character Heights

Print a one line message in 1/2" characters or two lines of text with the 7/32" high characters. Selecting the character size is accomplished through the font key on the hand held controller.

### Ink Supply

Built into the printhead is a 42 cc 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 minutes.



### Breakaway Printhead Protection

A typical powered conveyor or case taper corrugated cartons can sometimes come through skewed or off center. The horizontal adjusting rod that holds the 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 back into position after the misaligned carton has past.

### 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.



### Customized

**EVOLUTION I** is supplied with a built in font style. Optional alternative fonts are available and can be downloaded into the printhead modules through flash card media.

Logos are another option, and up to 3 can be downloaded into the message via the data flash card.

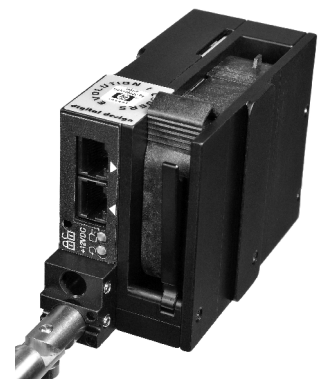
### Networking Capabilities

The hand held controller has the capability of controlling up to 32 individual printhead modules through the use of a RS 485 data cable. A small data cable is used to connect the modules on the same production line while a longer cable connects them to the next production line in the manufacturing area. The printhead modules have a discreet address which is used to identify them for message entry functions.

Complete PC control of the **EVOLUTION I** network through our **EVOLUTION-NET** software is available as an option.



EVOLUTION  
Universal Controller



Printhead Module with Bracketry

# Technical Specifications

## Complete Standard System Includes:

A controller with 4 line x 16 character LCD and tactile keypad for message entry. A high resolution printhead module with complete mounting bracket and internal product sensor for side coding applications.

## Standard Operating Features

Alpha/Numeric character set plus special characters  
Ability to control up to 32 printheads via RS 485  
Bracketry capable of mounting up to 4 printheads  
Character Heights: 1/2" (12.7mm) and 7/32" (5.5mm)  
Message Length: 24 characters of 1/2" height  
48 characters of 7/32" height (24 per line)  
Print Resolution: 300dpi at 200 feet (61m) per minute  
Programmable line speed  
Programmable print direction  
Programmable print delay  
Inter-character spacing  
Inverted printing  
Multiple language prompts: English and Spanish

## Production Speed

Up to 200 feet (61m) per minute

## Ink Supply

Cartridge volume: 42cc  
Colors: Black, Blue, Red, Green, Yellow  
Low ink monitoring

## Power Required

110-240 VAC, 50-60Hz 0.5A

## Environmental

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

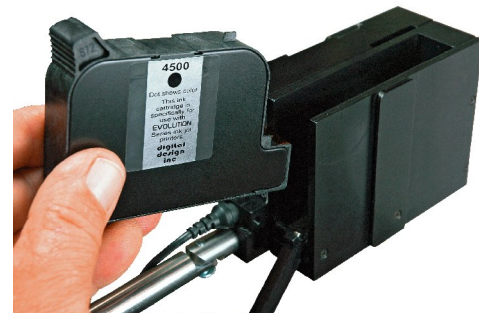
## Physical Dimensions

Controller: 4.125" wide x 8.750" long x 1.500" deep  
Printhead module: 2" wide x 4" deep x 3" high

Authorized **EVOLUTION** Distributor:



Universal Hand Held Controller



Ink Cartridge and Printhead Module

## Hardware Options

Add-on High Resolution printhead modules  
Spring loaded carton follower  
Top coding bracketry  
Floor stand  
External product sensor  
External encoder

## Software Options

Alternative fonts: Downloadable via custom programmed flash card media  
Logos: Ability to load up to 3 logos into the message  
Downloadable via flash card media  
**EVOLUTION-NET** software for PC control of network

## Special Software Package No. 1

**Includes:**  
Message Storage: Up to 50 messages system wide  
Automatic message repeat  
Password protection

## Special Software Package No. 1.5

**Includes:**  
Expanded Message Storage: Up to 99 system wide  
Expanded Message Length: Up to 48 characters of 1/4" to 1/2" in height. Or, up to 96 characters of 7/32" or smaller with 48 characters in two lines.

## Special Software Package No. 2

**Includes:**  
Variable time formats  
Variable date formats  
Sequential numbering  
Special Software Packages 1 and 1.5

## Special Software Package No. 3

**Includes:**  
Shift Coding capability  
Date Offset and Product Counter  
Special Software Packages 1, 1.5 and 2

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