

# GENESIS™

Ink Jet Printer Series

# EVOLUTION I

High Resolution Large Character

**EVOLUTION I** is a High Resolution large character ink jet printer. It is the first in a series of printers that has been designed as a direct replacement for the contact style "roller coders" still being used in production.



## 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

We know that on 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

Need more than one line of 1/2" text on your carton? With **EVOLUTION I** you can simply add another printhead. Each printhead module is manufactured with a dovetail slot on one side and a dovetail slide on the other. Simply 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 Smart Card media.

Logos are another option, and up to 2 can be downloaded into the message via the Smart Card.

The optional External Programmer is required to perform the download operations.

## 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 GenLink software is available as an option.



**EVOLUTION I**  
Hand Held Controller



Printhead Module with Bracketry

# Technical Specifications

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## Complete Standard System Includes

Controller with 4 line x 16 character LCD and tactile keypad for message entry. 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

115-230 VAC, 50-60Hz

## 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



Hand Held Controller on Bracket



Ink Cartridge and Printhead Module

## Hardware Options

Add-on High Resolution printhead modules  
Top coding bracketry  
Floor stand  
External product sensor  
External encoder  
External programmer to download logos, upgraded software and fonts

## Software Options

Alternative fonts: Downloadable via custom programmed Data Flash Card  
Logos: Ability to load up to 2 logos into the message  
Downloadable via Data Flash Card  
GenLink style software for PC control of network

## Special Software Package

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

**Authorized EVOLUTION Distributor:**



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## ADVANCED Labeling & Marking

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