

EVOLUTION I™

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 I
Hand Held 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



Hardware Options

Add-on High Resolution Printhead Module
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