

# EVOLUTION-1

High Resolution Inkjet Printer

## Evolve with the times

EVOLUTION-1 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, yet is capable of so much more.

### A Complete System

EVOLUTION-1 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-1 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 moments.



### 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 .



Printhead module

XT extended Printhead

### Customisable

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 Smart 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.



Hand Held Controller



EVOLUTION XT head and FlexMount bracket



### Trend Marking Systems

PO Box 1311 Castle Hill NSW 2154  
TEL: 02 96299535 FAX 02 96297535  
EMAIL: trend@trendmarking.com.au  
www.trendmarking.com.au

# 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

Low ink monitoring

Porous ink Colours:

*Black, Blue, Red, Green, Yellow*

Semi-Porous ink Colours

*Black, Red, Blue*

Non-Porous Ink Colours

*Black*

## Power Required

110-240 VAC, 50-60Hz 0.5A



Ink Colour samples



FlexMount angled bracket



Sprint-loaded product follower



Economical - one controller runs multiple heads in multiple locations



Ink Cartridge and Printhead Module

## 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 modules

Spring loaded carton follower

Top coding bracketry

Floor stand

External product sensor

External encoder

## Software Options

Installed via Flash-card media

## Optional Software Package No. 1

50 Message Storage. Automatic Message Repeat.

Password Protection:

## Optional Software Package No. 1.5

48chars/line Extended Message Length. 99 Message Storage:

## Optional Software Package No. 2

Sequential Numbering. Variable Date Formats.

Variable Time Formats. Includes SW Package 1 & 1.5.

## Optional Software Package No. 3

Shift Coding. Date Offset. Product Counter. Includes SW Package 1, 1.5.& 2

## EVOLUTION-NET PC Control Package

## Customised Logo Flash Cards



**Trend Marking Systems**

PO Box 1311 Castle Hill NSW 2154

TEL: 02 96299535 FAX 02 96297535

EMAIL: trend@trendmarking.com.au

www.trendmarking.com.au