

# Software & Hardware Options

EVOLUTION has been designed to be a "low cost" yet completely expandable High Resolution printing system. In its basic form, it is a direct replacement for contact style roller coders printing simple product identification onto corrugated cartons.

However the addition of optional software enhancements take EVOLUTION from a simple system to one that rivals much higher priced hi-res large character printers meant for secondary carton coding, as well as a viable alternative to the small character DOD, continuous ink jet, and laser printers.

## Optional Software Packages

A series of four Optional Software Packages have been developed for EVOLUTION. These packages give the end user the flexibility to add only what he needs for his particular application.

They are supplied on a Data Flash Card, and can be easily installed in the field. They can each operate independently or as a group making EVOLUTION a full featured system.

The Optional Software Package on the Data Flash Card is intended to be used in only one printhead module. If the same option package is required in more than one printheads, separate option packages must be purchased.



### Optional Software Package No. 1

This package includes three software features.

**Message Storage:** Allows the user to store up to 50 messages in the hand held controller. The stored messages include the text and the operating parameters such as line speed and print registration.

**Automatic Message Repeat:** Designed for those applications where a continuously repeating message is required. The distance between message repeats can be programmed through the controller to give varying distances of up to 20 inches.

**Password Protection:** This feature gives a supervisor the ability to store a password into the controller to prevent unauthorized tampering of the message and the operating parameters of the system.

# EVOLUTION

High Resolution Inkjet Printer



### Optional Software Package No. 1.5

The standard message length with EVOLUTION is one line of 24 characters 1/2" in height, or 48 characters of 7/32" high with 24 character per line. This software package gives the user added message length capability and expands message storage.

**Extended Message Length:** Expands the message length to one line of 48 characters 1/2" high, or 96 characters of 7/32" height with 48 characters per line.

**Expanded Memory:** Of up to 99 messages which includes both the text and operating parameters and are stored in the hand held controller.

### Optional Software Package 2

Sequential numbering along with time and date coding capabilities can be added with this package.

**Sequential Numbering:** A user defined sequential numbering counter is added with this option. Sequential number can start at zero or any number you enter up to a maximum of 9 digits.

Example: 0000 (start) 9999 (end and resets to 0000)

**Variable Date Formats:** Can be represented in a numerical (05/25/09), alphabetical (May 25, 2009) format, and Julian Date format. The formats can be arranged to print Month/Day/Year, or Day/Month/Year. The ability to print only the month and year, or other combinations are totally programmable. Delimiters (: / .) are selectable.

**Variable Time Formats:** Military style time numbering in hours and minutes (14:45) can be entered into the message for more precise production tracking. Time can be printed as hour and minutes, hours only or minutes only. Delimiters (: / .) are selectable.

**Added Value:** Optional Software Package No. 2 also includes all of the software features that are contained in option packages 1 and 1.5.

### Optional Software Package 3

This package adds shift coding and offset date capabilities.

**Shift Coding:** Allows the user to break the day into 6 or less individual shifts and will print either a single number of alpha character to identify each shift.

**Date Offset:** Designed for the automatic rollover of expiration dates. The user can program in up to 999 days and the printer will automatically advance the date by that value.

**Product Counter:** The ability to count the number of products printed within a programmed time period.

**Added Value:** Optional Software Package No. 3 also includes all of the software features that are contained in option packages 1, 1.5 and 2.



## Trend Marking Systems

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## Alternate Fonts

EVOLUTION comes equipped with one font style in character heights of 1/2" and 7/32". Alternate font styles and character heights can be ordered to suit the application. The fonts are supplied on a Data Flash Card and are downloaded into the printhead module in the same manner as the software packages.

## Logos

The ability to print up to three logos in either the one line mode or the two line mode is a standard feature on all EVOLUTION printers. The logo is simply a bitmap file and can contain anything from multiple lines of text to intricate graphics or barcodes.

Logos can be ordered from your distributor and will be supplied on a Data Flash Card ready to be downloaded into the printhead module.

Example of single line (1/2" height) logos and text.



Example of dual line logos and text.

**LOT** 793G42    **OCT 22, 2009**  
**24 UNITS 4 SIX PACKS 143589**

## Download Package

The user has the ability to create logos in any graphic program that is capable of producing a 2-bit black and white logo in BMP format. The optional Logo Download Package gives the user the ability to download the BMP file directly to the printhead module or data flash card installed in the module. Two versions of the package are available. A software only version or a complete version which includes the software, an RS232 to RS485 converter (printhead modules only accept RS485 data signals) and cables.

## EVOLUTION-Net Software

This is a PC resident package that gives the user complete control of all of the EVOLUTION printers within the manufacturing area. Create messages, monitor printers and more all from a central location. Due to the varying lengths, all interconnect cables are optional. Please ask your distributor for complete details.



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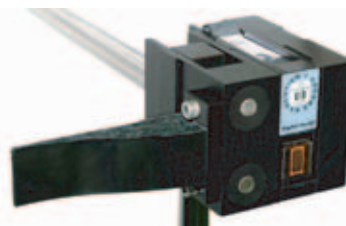
## Hardware Options

**Printhead Modules:** EVOLUTION comes standard with one printhead module. If your requirement calls for additional line of text or if you need to print on both sides of a carton, you can simply add printhead modules to the system.



**Top Coding Bracketry:** EVOLUTION is capable of top coding. It does however require a small add-on bracket to allow the printhead module to face down toward the surface to be printed on.

**Floor Stand:** A floor stand can be used as a portable base for the EVOLUTION printer to move it to different produc-



**Spring Loaded Carton Follower:** A printhead breakaway feature is standard on EVOLUTION. However if cartons are frequently misaligned as they travel down the conveyor the carton follower can prevent damage to

the printhead module by moving it backward while still maintaining the proper print distance. The spring loaded feature returns it to the original position when the carton has passed.

**External Product Sensor:** If the application is printing onto a web or if graphics on the carton prevent the built in product sensor from reading the carton properly, the external product sensor can be positioned to overcome these difficulties.

**External Encoder:** Graphics and barcodes require production line speeds that do not vary. If they do, the graphic will be either condensed or elongated depending on how the speed changes. To prevent this, an optional encoder tracks the varying speed of the line and provides accurate timing pulses to the printhead module to give you a perfect print every time.