EVOLUTION DM™

Ink Jet Printer Series

EVOLUTION DM has been designed for printing onto the side of egg cartons. The DM is specifically intended for Diamond Systems egg packaging machines. Evolution DM delivers all of the benefits of a high resolution ink jet printer with a fully loaded software package and takes away the mess and time consuming changeovers of the contact style imprinters normally associated with egg carton coding.

Inkjet Technology by Hewlett Packard
Designed and manufactured by Digital Design, EVOLUTION DM 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.

A Complete System
EVOLUTION DM is complete and ready to install right out of the box. The system includes the mounting bracketry, an extended printhead module, remote product sensor and universal junction box for connecting power, sensor and other functions directly to the printhead.

Mounting Bracketry
A unique mounting bracket bolts directly onto the denester. This bracket allows in, out, up and down adjustment of the printhead and moves with the denester as it is set up for varying egg carton widths.

Optimum Print Resolution
EVOLUTION DM 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.

Evolution DM with 2 printheads shown mounted on an 8200 Diamond Machines egg packager.

Three DM Versions Available.
EV-DM-AHD is a basic system that will print up to two lines of text. No additional software is included. Standard character sizes are 1/2" and 7/32".

EV1-DM-AHD3 offers a fully loaded software package which allows automatic date roll over in a variety of formats. It also includes time, sequential numbering, date offset and other software features.

EV2-DM-AHD includes the same software package as the above system, but offers the ability to print up to four lines of text. One line of 1/2", two lines of 7/32", three lines of 1/8" or four lines of 3/32".

Optional fonts sizes are available for all three models.

Actual print sample from EV DM.

EV-DM printhead with extended Cartridge.

Technical Specifications

Standard/Optional Hardware and Software Features	EV1-DM-AHD	EV1-DM-AHD3	EV2-DM-AHD
Hand Held Controller	O	O	O
Alpha/Numeric Character Set with special characters	S	S	S
Ability to control up to 32 printheads via RS 485	S	S	S
Mounting bracketry for Denester	S	S	S
Character Heights: 1/2" in one line, 7/32" in two lines	S	S	S
Character Heights: 1/2", in one line, 7/32" in two lines, 1/8", in three lines, 3/32" in four lines	N/A	N/A	S
Alternative font styles and character heights	O	O	O
24/48 Character message length per line of text	24	48	48
Message Storage: Up to 100 messages in Controller	N/A	S	S
Programmable line speed, Print direction and Print delay	S	S	S
Inter-character spacing, Inverted print	S	S	S
Variable Time and Date formats, Sequential numbering, Shift coding, Date offset, Automatic message repeat, Password protection	O	S	S
Multiple language prompts: English and Spanish	S	S	S
EV-Net Software for PC control of up to 32 Evolution printers	O	O	O

S = Standard   O = Optional   N/A = Not Available

Production Speed
Up to 200 feet (61m) per minute @ 300dpi

Ink Supply
Cartridge volume: 42ml
Porous Colors: Black, Blue, Red, Green, Yellow, UV Visible
Semi-Porous Colors: Black, Blue, Red
Low ink monitoring

Power Required
Taken directly from Diamond Systems machine.

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

Typical contact style egg carton imprinter.

Networking Capabilities
The hand held controller has the capability of controlling up to 32 individual printhead modules through via a RS 485 data link. The printhead modules have a discreet address which is used to identify them for message entry functions and are inter-connected with standard CAT 5 cable. Complete PC control of the EVOLUTION DM network through our EVOLUTION-NET software is available as an option.

Authorized EVOLUTION Distributor:

inkjet
technology by **hp** invent

digital design, inc. 67 Sand Park Road, Cedar Grove, NJ 07009
● (800)967-PRINT   ● (973)857-0900   ● FAX: (973)857-0607
● Internet: www.evolutioninkjet.com   ● E-mail: sales@evolutioninkjet.com