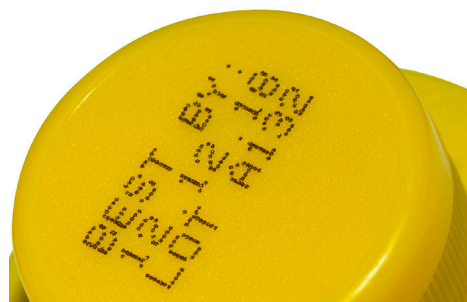


CONTINUOUS INK JET TECHNOLOGY

MODEL 88 SYSTEM

High Speed. High Use Applications.



THE MODEL 88 IS TARGETED AT HIGH SPEED, HIGH USE APPLICATIONS, PRINTING 1, 2, 3, 4 OR 5 LINES OF TEXT, BARCODES OR GRAPHICS. A COMPLETE RANGE OF DYE AND SOFT PIGMENTED INKS AVAILABLE IN A VARIETY OF COLORS FOR A WIDE RANGE OF APPLICATIONS.

Print real-time "Best By", "Lot Code", "Sell by", "Expiration Codes" and other identifying marks and codes to any substrate.

Typical applications mark and code one, two or three shifts per day or 24/7 operations, five to seven days per week, averaging 4,000 - 8,760 hour annual operation. Utilize integrated RS232 and programmable inputs/outputs for remote control and communications.

Systems are simplified to allow anyone to

operate, minimizing operator touches, extending time between human interaction.

PRINT CAPABILITIES

- **Lines of Print** - 1, 2, 3, 4 or 5 lines of text, graphics and barcodes.
- **Image Height** - from 1.5mm to 19mm
- **Non-Contact Printing** - Ink throw distances from 12mm up to 50mm
- **Print Speeds** - up to 470 meters/minute for single line of print, up to 108 meters/minute for two lines of print, up to 54 meters/minute for three lines of print, up to 36 meters/minute for four lines of print and up to 35 meters/minute for five lines of print.

FEATURES

- **CleanStart** - Automatically cleans printhead elimination daily and weekly cleanings
- **10.4" Color Touch Screen** - Always on, vivid display with large intuitive buttons and status indicators
- **OneTouch** - Single step operator functions reduce operator steps
- **Large Volume Ink Tanks** - Extend time between fluid additions to weeks or months
- **On-the-Fly External Ink Filling** - accomplished in less than a minute with no waste
- **AutoOff™ Go Home Button** - Automate and eliminate time consuming end of day manual routines

SPECIFICATIONS

Technology	Continuous Ink Jet (CIJ) Technology, Single Printhead Control
User Interface	264 mm Color LCD, Touch Screen, Icon based – Graphical User Interface (GUI)
Lines of Print	1 - 5 Lines, 32 Pixel
Print Fonts	5, 7, 9, 12, 16, 19, 25, 32
Adjustable Print Height	1.5mm - 12mm
Optional Print Height	2mm - 19 mm
Print Speed	1 Line: 470 meters/minute, 2 Lines: 108 meters/minute, 3 Lines: 54 meters/minute, 4 Lines: 36 meters/minute, 5 Lines: 35 meters/minute
Ink Throw Distance	True Non-Contact Printing: 12mm - 50mm
Electronic Hardware	32 Bit ARM 9, 208 Mhz Processor
Memory Storage	4 GByte Solid State Drive, 15 MByte Flash, 128 Mbyte RAM, USB Interface (thumb drive)
Machine Interface	RS232, Ethernet
Inputs	1 Photocell, 1 Photocell or Programmable Input, 1 Shaft Encoder, 8 Field Programmable Inputs, Remote Message Selection option – 256 possible selections
Outputs	4 Alarm Outputs, 1 Relay Output
Enclosure	Stainless Steel Enclosure
Ingress Protection	IP65
SmartFilter™ Life	10000 hours
Operating Environment	Temperature: 0° - 50°C, % Relative Humidity: 10 - 90% (non-condensing)
Electrical Requirements	Auto Ranging: 100 - 240 VAC (3 Amp), Frequency 50 - 60 Hz, Power Consumption: 50 W
Compliance	CE Certified, RoHS Compliant
Message / Code Creation	Dynamic Message Storage (over 1000 Messages), WYSIWYG Message Editing, Drag / Drop Field Based Formatting, Multi-National (Unicode) Character Printing, Download Fonts, Integrated Font Editor, Real and Expiration Time and Date, Shift and Rollover Functions, Product and Batch Counting, Remote Count Resets, Download Graphics and Integrated Graphic Editor, Continuous and Repeat Print, Auto Reverse / Traverse Print
Operation Features	Icon Based Operation, Single Button Start, Single Button Stop / Power Off, Password Security, Automatic Diagnostics, Error and Activity Logs, Service Reminders, Backup / Restore Functions, USB Load Firmware Updates, All Operator Languages, Download Languages
Ink Delivery	SmartFill™ Ink Bottle: 946 ml, SmartFill™ Makeup Bottle: 946 ml
Fluid Capacity	Ink Capacity: 2 liters, Makeup Capacity: 3 liters
Ink Types	Quick Dry to Immediate, Complete Ink Range: MEK, Acetone, Ethanol and Blends
Ink Colors	Black, Red, Blue, Green, Yellow, Orange, Invisible
Specialist Inks	Thermo Color Change, Wet Bottle, Caustic Washable, Plastic, Eco-Friendly, Alcohol Resistant, Military Spec
Printhead Umbilical	3 meters, 4.5 meters option
Printhead Options	Right Angle Printhead
Printing	Printhead Orientation – Omnidirectional
Weight	20 kg
Optional Accessories	Alarm Beacon, Photocells, Mountings, Shaft Encoder, AirFlow™ Positive Air Kit (for high dust), Printhead Wash Station

