



bestCode
continuous innovations

C80 Series.

Next generation marking and coding.

High speed. Non-contact. Continuous ink jet printing systems.

BestCode Industrial Marking and Coding Systems print best by, lot code, sell by, expiration codes and other identifying marks and codes on industrial and consumer goods to ensure product traceability.



A complete range of small character printing systems.

C80 systems print high speed, reliable marks and codes on a wide range of substrates, including plastic, glass, paper and more.

C82 Designed for basic applications, targeted at applications printing 1 or 2 lines of text, with 1-2 shifts per day, 5 days per week – 1000-2000 hour annual operation, with slower production line speeds.

C86 Designed for high speed applications, targeted at applications printing 1, 2, or 3 lines of text with 1-2 shifts per day, 5 days per week – 2000-4000 hour annual operation, with high speed production line speeds.

C88 Designed for high speed / high use applications, targeted at applications printing 1, 2, 3, or 4 lines of text, with 2-3 shifts per day, 5-7 days per week 6000-8000 hour annual operation, with high speed production line speeds.



SOLUTIONS

TruPoint

Best print quality. TruPoint™ provides the best CIJ print quality. Through high speed processing and CIJ specific electronic hardware, millions of drop patterns are dynamically adjusted on the fly to achieve best in class print quality.

Print anything.
Mark and code everything.



C80 printheads start clean every time.

C80 printheads are industrial stainless steel, built-to-last for the harshest printing applications. Printheads are designed for a clean, pin-pointed start every time. C80

printheads are built around BestCode's proprietary micro-disk drop generator. A single small bore tube delivers ink and solvent eliminating the need for multiple inlets/outlets. An integrated valve provides Direct Solvent Injection for printhead nozzle and gutter cleaning. Jet Startup is ready to print in less than 1 minute.

CLEAN
start 

1 minute

Ready to Print



Ink range. A range of quick to immediate dry inks have been developed for use with C80 printing systems. Inks available include MEK, Acetone, Ethanol, and Acetone/Ethanol blend based inks. Multiple colors are available and a number of specialty fluids for unique applications.



C80 systems print fast, faster and fastest – 3 speed settings.

A single line of text can print at speeds exceeding 1500 feet/minute (470M/minute), two lines over 600 feet/minute (200M/minute), three or four lines of print at 300 feet/minute (100M/minute).



Simplified, Extended Operation, Lower Cost of Ownership

C80 systems are designed to extend operation time between human interactions. Routine operator functions are made less often.

EZTouch
interface

Clearer and simpler to operate. A large, 10.4" Color Touch Display is employed to allow easy visual of all operating information. Operating functions are large, intuitive icon based buttons, making full use of color for status indicators. A true WYSIWYG environment provides the most realistic view of creating your print message. Using "drag and drop" field based message, a graphical screen provides exacting location of your message format.

BestCode products are designed for the global market. Systems use multi-national character sets, featuring multiple languages and Unicode character printing – over 60,000 characters.

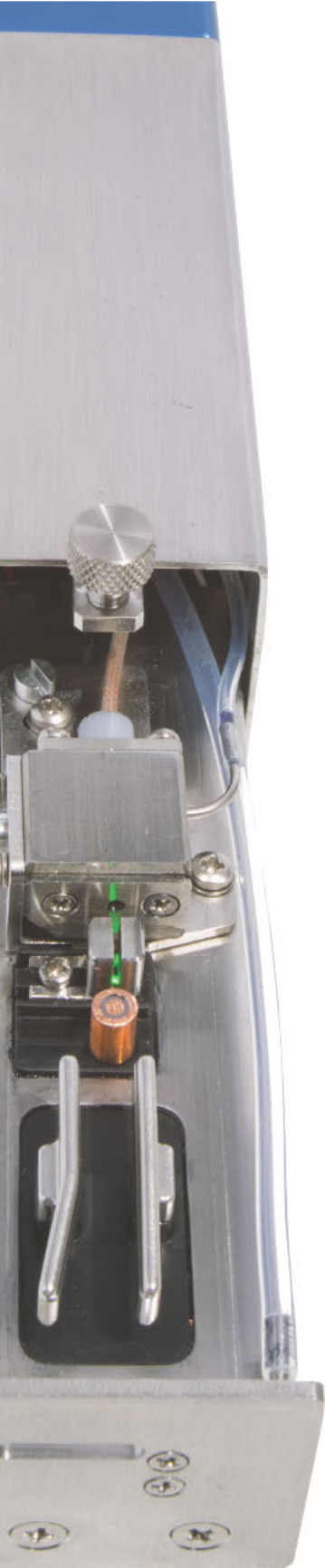


10.4"

Color LCD
Touch Interface

SmartFill

Print everything. Waste nothing! Bottles drain completely so you can print every drop. External fill fluid addition allows on-the-fly Ink and Solvent filling without opening enclosure. The large, clean, mistake proof intelligent one quart fluid containers are sized differently eliminating the risk of adding Solvent or Ink into the wrong tank, while extending time between fluid additions. The quart ink and solvent bottles know their fluid type, and shelf life.





LargeVolume™ ink and solvent tanks.

High volume, demanding print applications are achieved with minimal user intervention. Tanks hold multiple liters of fluids for extended run time. Ink tank volumes can operate multiple months between additions. Solvent tank volumes can operate 1000+ operational hours between additions.

1000+ hours

Operational

Industrial, Designed to the Extremes

C80 systems are designed for industrial extreme applications, engineered to the operating specification edges. Systems operate in wet/dry/dusty and hot/cold applications.

Industrial, all metal, stainless steel enclosure.

The systems are "Built-to-Last" in a compact, lightweight space saving design. Operate in the most extreme wet and dry applications with an IP55, or IP65 rated enclosure for high dust.

TempSense™ ventilation.

Using automatic detection systems, variable fan speed and highly efficient air flow, TempSense™ ensures the system operates in the correct temperature range. High volume air filters operate 12 months between service intervals.





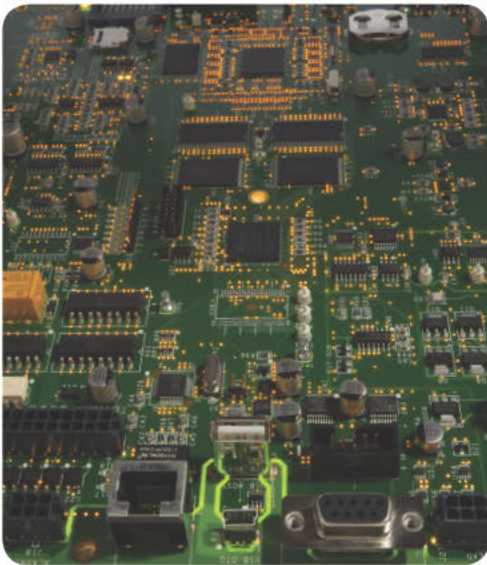
EcoTec™ fluid management system reduces solvent consumption, lowering overall cost of ownership while extending the time between solvent additions and filter replacements.

EcoTec™ is a proprietary ink tank, reduced cycle pump, SmartFilter™ and a twin trap vapor condensing unit purpose designed for CIJ Technology. The ink tank is designed to last the life of the system. The reduced cycle pump extends pump life and lowers fluid operating temperature resulting in lower evaporation rates. Vapor condensing and reduced solvent evaporation lowers overall ownership cost and reduces interaction time adding solvent to the system.

SMART
filter



Filters know their install date, keeping track of usage and alerting when the ink filter should be replaced. Quick change, extended life filters operate up to 8,000 hours – 12 months.



State-of-the-Art Electronics. Systems feature high speed, state-of-the-art 208Mhz processor core integrated into a single electronic board. Systems feature large memory storage, allowing multiple thousand messages to be stored for selection.

Code.
Connect

Stay connected. Integrated USB, RS232, multiple programmable inputs and outputs and optional Ethernet communications enable network connectivity allowing integration into any application

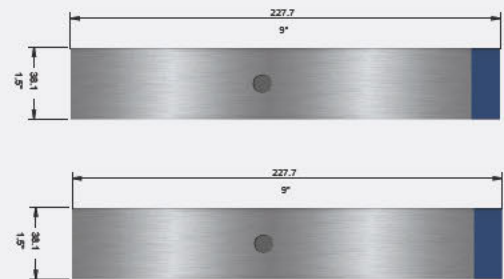
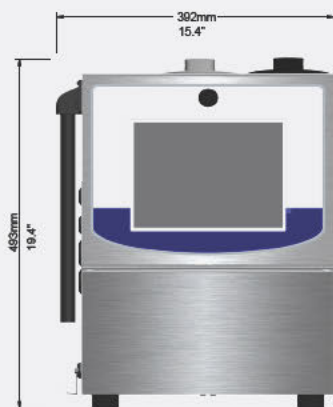
Use USB memory sticks to backup, restore, move, and carry system files wherever you go.



Specifications



Printhead	Continuous Ink Jet (CIJ) Technology, Single Printhead Control		
User Interface	10.4" (264mm) Color LCD, Touch Screen, Icon based - Graphical User Interface (GUI)		
Lines of Print	1-2 Lines, 16 pixel	1-3 Lines, 25 pixel	1-4 Lines, 32 pixel
Print Fonts	5, 7, 9, 12, 16	5, 7, 9, 12, 16, 19, 25	5, 7, 9, 12, 16, 19, 25, 32
Electronic Hardware	32 Bit ARM 9, 208 Mhz Processor		
Storage	4GByte Solid State Drive, 16 MByte Flash, 128 MByte RAM, USB Interface (thumb drive)		
Machine Interface	RS232	RS232	RS232, Ethernet
Inputs	1 Photocell, 1 Photocell or Programmable Input, 1 Shaft Encoder, 8 Programmable – Field programmable input, remote message selection option – 256 possible selections		
Outputs	4 Programmable Alarms (open collector,150mA sink), 1 Programmable Dry Contact RelayExternal Power (+24VDC 500mA)		
Enclosure	Stainless Steel Enclosure		
Ingress Protection	IP55	IP55	IP65
Filter Life	2,000 hours	4,000 hours	8,000 hours
Operating Environment	Temperature: 32°—122° F (0°—50° C), % Relative Humidity: 10—90% (non condensing)		
Electrical Requirements	Auto Ranging: 100—240 VAC (3 Amp), Frequency: 50—60Hz, Power Consumption: 50 watts		
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, Download Graphics and Integrated Editor, Continuous and Repeat Print Capability		
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, Downloadable Software Updates, Multiple Operator Languages, Download Language Translations		
Ink Delivery	SmartFill™ Ink Bottle: 32oz (946ml), SmartFill™ Solvent Bottle: 32oz (946ml)		
Fluid Capacity	Ink Capacity: 68oz (2 liter), Solvent Capacity: 102oz (3 liters)		
Ink Types	Quick Dry to Immediate, Full Range — MEK, Ethanol, Acetone		
Ink Colors	Black, Red, Blue, Green, Yellow, White, Invisible (UV Readable)		
Specialty Systems	—	—	C88S micro, C88S pigment, C88S food
Printhead Umbilical	10 Feet (3 Meter) *other options on request		
Printing	Printhead Orientation - Omni Directional		
Image Height	Adjustable: .025" (.6mm) - .5" (12mm)		
Throw Distance	Non-contact printing ¼" (6mm) – 1" (25mm) throw distance		
Print Speed Capability	600 ft/minute (196M/min)	1500 ft/minute (470M/min)	1500 ft/minute (470M/min)
Weight	45 lbs (20kg)		
Optional Accessories	Alarm Beacon, Photocells, Mountings, Shaft Encoder, Positive Air Kit (for high dust), Printhead Wash Station		



By request, BestCode can adapt hardware and software to meet specific application demands.