DIAGRAPH

IJ4000 HIGH RESOLUTION INKJET SYSTEM

The Diagraph IJ4000 Impulse Jet System is designed to consistently print sharp, high-resolution images on porous surfaces in the most challenging of industrial environments. The enhanced printhead design allows for printing barcodes, graphics and alphanumerics at higher speeds with superior edge definition and contrast for superior legibility and scanner recognition.

Multiple printhead configuration allows you to print on two independent production lines, driving up to four IJ384E 2" or two IJ768E 4" printheads per controller

10.2" color touch screen controller specially enclosed in stainless steel for industrial environments simplifies operator inputs, achieving dynamic print message designs compatible with Unicode supported languages

Heavy-duty repairable printheads feature an industrial, all stainless steel design utilizing Trident-based technology for maximum uptime, reliability and longevity

KEY FEATURES

- **Automatic cleaning system** can adjust to your unique environment to keep dust, glue and debris from getting inside the printhead nozzles, maintaining excellent print quality
- **Reinforced roller retractors** combined with superior ink throw distances assure quality prints regardless of irregularities in gaps between the printhead and cartons
- **Built-in channel check** feature allows all printhead channels to be assessed by the simple push of a button at the printhead level, giving operators the ability to quickly prime the printheads on the spot for maximum print quality
- **Smart Ink Delivery System** design allows you to control multiple production lines from remote locations while also simplifying ink management across multiple printheads with a single ink supply

SPECIFICATIONS

Controller	IJ4000 HMI
Touch Screen Display	10.2" (25.0 cm) Color
Operator Interface	Graphic User Interface (GUI), WYSIWYG Editor
QWERTY Keypad	Pop Up on Touch Screen
Enclosure	Stainless Steel, Environmentally Sealed
Memory	512 MB
Connectivity	1-Ethernet, 1-USB, 2-RS232
IO Interface	IO Board Options
Auto Codes	Time, Date, Use By, Julian, Count, User Defined, Shifts, Variable Input, Barcodes
Bar Codes	UPC, GTIN, I2of5, 128, Code 39, EAN, UCC, 2D Data Matrix, GS1-128
Logos	Bitmap Images, Multiple Formats
Fonts	True Type Available

PC Interface	
Windows PC GUI Software	Graphic User Interface (GUI), WYSIWYG Editor
Network Software w/Database	Available Option
Direct Interface	Protocol Provided

Printheads	IJ384E and IJ768E
Technology	Piezoelectric (Trident Impulse Jet)
Print Height	384E 2" (50mm) and 768E 4" (100mm) Printheads
Print Resolution	192 x 300 dpi (100-300 dpi User Selectable Range)
Standard Print Speeds	Up to 250 fpm
Print Options	Side, Top Down, Angled, Low Temp
Print Throw Distance	Up to 1/4" (6 mm) for Barcodes, Up to 1/2" (2.5 mm) for Text (Application Dependent)

Ink Systems	
Ink Delivery	Centralized Ink Delivery for Multiple Printheads
Ink Supplies	500 and 1000 ml
Ink Types	Porous Inks, Black and Red Pigmented for Barcodes
Compatible Substrates	Corrugate, Paper, Fiber Board, Gypsum, Wood and More

System	
Regulatory Listings	TUV (CE/CSA/UL)
Operating Environment	50°F to 104°F (10°C to 40°C), 32°F Option (0°C)

DIAGRAPH

Diagraph Marking & Coding
1 Research Park Drive
St. Charles, MO 63304-5685

+1 800 722 1125 | **Diagraph.com**

An ITW Company