Matthews Marking Systems™

VIAjet™ L-Series Active Bulk Ink System (ABIS)

INTELLIGENT THERMAL INKJET (TIJ) BULK INK DELIVERY SYSTEM

Achieve unmatched productivity of your production line marking with VIAjet L-Series thermal inkjet printers and Active Bulk Ink System (ABIS).

Ideal Applications

+ Primary, secondary, or tertiary production lines
+ Single and multi-line text, 1D and 2D barcodes, logos, and graphics
+ Fixed and variable data, including date/lot codes, serial numbers, GS1

Advantages

+ Increased uptime with up to 30x longer cartridge life compared to single-use cartridges*
+ Reduced cost-per-mark up to 8x less compared to single-use cartridges*
+ True 600 dpi marking at 200 ft/min (60 m/min)
+ Bulk ink cartridges are virtually maintenance free
+ Minor environmental changes compensated for with automatic calibration
+ Non-stop printing with auto-switching dual-ink supply
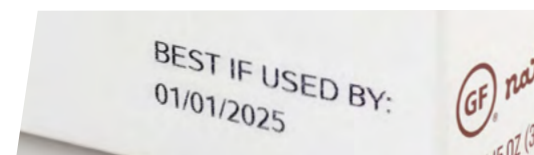+ 1–2 liters of ink per Quick Disconnect (QD) bulk ink cartridge compared to 400 ml for other TIJ systems

*Application dependent.

L50 mark on plywood

L12 marks on brown kraft corrugate

L12 mark on white corrugate

L50 mark on white corrugate

VIAjet L-Series ABIS Specs

Operating Temperature and Humidity

+ Ink dependent[1]
+ Approximately 50–100°F (10–40°C)
+ 10–95% RH (noncondensing) for water-based inks

Inking System

+ Multi-color water-based inks for porous substrates and black ink for non-porous substrates

Electrical

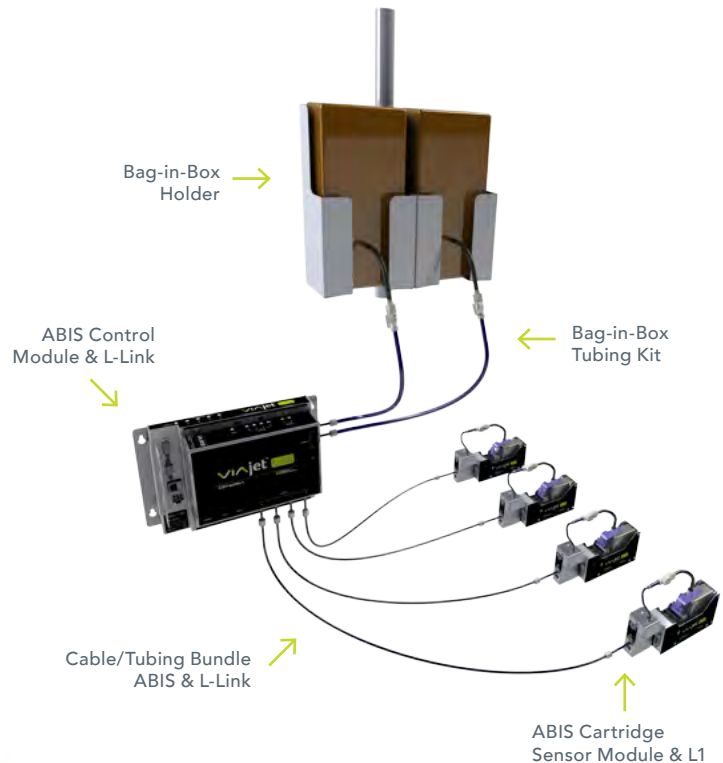+ 100-240 VAC, 50/60Hz, .5-1A via adapter or 24VDC 90W

IP Rating

+ IP30

Connections

+ Install up to four cartridges per ABIS control unit
+ Mount cartridge sensor module up to 6' (2m) from ABIS control module
+ Ethernet connection to L12, L25, L50 or L-Link

	(L x W x H)
ABIS Module	7.1" x 5.9" x 1.7" / 182 x 150 x 44 mm
L1 and Cartridge Sensor Module (CSM)	9.8" x 1.7" x 2.8" / 248 x 44 x 72 mm
L12 and CSM	9.1" x 3.4" x 6.7" / 232 x 86 x 171 mm
L25 and CSM	9.1" x 5.3" x 7.2" / 232 x 133 x 182 mm
L50 and CSM	9.1" x 8.9" x 8.2" / 232 x 225 x 207 mm

Bag-in-Box Holder

ABIS Control Module & L-Link

Bag-in-Box Tubing Kit

Cable/Tubing Bundle ABIS & L-Link

ABIS Cartridge Sensor Module & L1

ABIS Features

+ Compatible with all L-Series printheads, can be mounted to L-Link for compact installation
+ Dual-ink supply of 500 ml or 1L bags provides hot swap bulk ink change
+ Animated, step-by-step installation and configuration guidance
+ Control up to four cartridges per ABIS unti at various elevations and orientations
+ Easy, one button system and cartridge priming
+ Status log reporting and diagnostics in MPERIA
+ Alarm light compatible
+ Pre-bundled communication cables and fluid lines

ABIS mounted to L-Link

Cartridge sensor modules mounted to L25

Cartridge sensor module mounted to L1

[1]*Approximately 50–100°F (10–40°C), 10–95% RH (noncondensing) for water-based inks*