



VIAjet™ L-Series

HIGH-RESOLUTION THERMAL INKJET PRINTERS



L-SERIES PRINT SAMPLES

L-Series Cartridge

L1 · L12 · L25 · L50 · VIApack



About VIAjet™ L-Series

Powered by MPERIA®, the most versatile and powerful print management platform, the VIAjet L-Series thermal inkjet printer provides high print resolution at very high speeds. It can print 600x600 dpi at 196 ft /min (60m/min) and 75x600 dpi at up to 1,600 ft /min (488m/min), significantly outperforming other thermal inkjet systems.



- + Very high print speed, twice as fast as HP-based systems
- + High-resolution images up to 2" per head
- + Simple touchscreen interface
- + Porous inks in various colors
- + Scalable solution for one printhead or multiple
- + Bulk Ink Supply available

L-Series Printheads



L12

- + Print height: ½" (12.7 mm)
- + Max print speed @ 75 DPI: 1,600 ft / min (488 m / min)
- + Print direction: horizontal or down
- + High resolution codes up to 2 mm and larger codes and text up to 6 mm*



L25

- + Print height: 1" (25.4 mm)
- + Max print speed @ 75 DPI: 1,600 ft / min (488 m / min)
- + Print direction: horizontal or down
- + High resolution codes up to 2 mm and larger codes and text up to 6 mm*



L50

- + Print height: 2" (50.8 mm)
- + Max print speed @ 75 DPI: 1,600 ft / min (488 m / min)
- + Print direction: horizontal or down
- + High resolution codes up to 2 mm and larger codes and text up to 6 mm*



L1

- + Print height: ½" (12.7 mm)
- + Prints-per-second: over 500 unique QR codes
- + Print direction: horizontal or down
- + Perfect for tight spaces and OEM integration
- + High resolution codes up to 2 mm and larger codes and text up to 6 mm*



VIApack

- + Complete basic system right out of the box
- + Print height: ½" (12.7 mm)
- + Max print speed @ 75 DPI: 1,600 ft / min (488 m / min)
- + Print direction: horizontal or down
- + High resolution codes up to 2 mm and larger codes and text up to 6 mm*

*Depends on ink type and message.

1 Quality At High-Speed.

Our thermal inkjet product line provides precise marks at high-speeds to keep your products in compliance and looking their best while reducing the need for waste or re-work.

2 High-Adhesion Inks.

No matter what you're printing on, our in-house engineering team are experts at finding the right ink for every substrate, including fast-dry inks.

3 Reduce Downtime.

No more messy inks and maintenance issues slowing your line down. Our reliable thermal inkjet solutions make them easy to use and a snap to maintain. No maintenance, easily replace your old print head with a new print head.

4 Scalable Solution.

Easily scale up without sacrificing quality. Get clear, crisp marks at high speeds with the ability to add multiple printheads for larger marks. We can stitch for seamless large marks.

VIApack

VIApack is a complete and affordable thermal inkjet printing system for industrial and packaging marking applications, such as batch codes, date codes, fixed and variable texts, graphics and barcodes. This simple system includes everything you need to be up and printing in minutes: the powerful universal print controller MPERIA®, a thermal inkjet printhead, power supply, photocell, Ethernet cable and mounting hardware. In addition to VIApack hardware, bulk ink hardware packages are available with a license.



- + 7" VIApack controller
- + VIAjet™ L-Series L12: 1/2" (12.7mm) printhead
- + Photocell
- + Mounting brackets
- + MPERIA® Creator: Windows-based message creator
- + Ethernet Cable
- + Power supply
- + Manuals & software

L-Link

The VIAjet™ L1 printheads connect to an L-Link, a compact, low profile and fully networkable control module. Up to four L1 printheads can be connected to a single L-Link and multiple L-Links can be connected to a single MPERIA® controller over Ethernet for ultimate flexibility and scalability. Each L1 can be remotely mounted up to 6 feet (2 meters) from the L-Link, making it easy to add printheads as needed. MPERIA can connect to virtually any ERP, MRP or database system as well as control multiple printer technologies (TIJ, Piezo, DOD as well as third party CIJ, TTO and Print and Apply systems) on single or multiple production lines.



MPERIA®

LESS EFFORT, MORE CONTROL

An automation platform that adapts to you, not the other way around. Easily integrate your existing environment using your current enterprise systems and legacy equipment. No custom software or server hardware required.

The MPERIA marking and coding automation platform provides a flexible architecture and a library of plug-ins to keep integration costs down, even for the most complex configurations.

MPERIA makes integration easy:

- + No expensive middleware or servers
- + No 3rd party integrators
- + No changes to your existing equipment or process
- + Data security without the IT headache
- + Unlimited number of printheads
- + Stitching printheads

- + Improve the efficiency of your print operations and increase production line productivity
- + Easily integrate your existing environment using your current enterprise systems and legacy equipment. No custom software or server hardware required
- + Scale up easily – add equipment to your line or expand to multiple plant locations. MPERIA's unparalleled performance will keep up



Success Story

TORTILLA CHIP MANUFACTURER



Objective

A tortilla chip manufacturer, tired of excessive downtime, needed a replacement for their CIJ system that was cost-effective and easy to use, while reducing maintenance and start-up time.



Reduce Jet Clogging



Reduce Costly Down Time



Improve User Interface

Results



The manufacturer saw a total return of investment within 4 months



Operators were able to easily set up and edit manufacturing data

The company eliminated complicated ink and solvent mixing, clogs and spills and slow start-up time, cutting their printer-related downtime by 90%.

Summary

Due to excessive downtime caused by multiple difficulties with their previous coding system—including ink clogs and spills that required frequent cleanup, challenging and confusing user interface that caused multiple coding errors, and slow start up times that impeded productivity—a tortilla chip manufacturer needed a new way to mark date and lot codes. Matthews Marking Systems implemented a low-maintenance thermal ink jet printer with cartridge-based ink supply, controlled by the MPERIA platform for ease of message creation, system control and future expandability.



Solution

Matthews replaced the CIJ system with a single, easy-to-use VIAjet™ L-Series thermal ink jet (TIJ) L12 0.5-inch tall printhead. The system marks variable data at a higher printing resolution (600 x 600 dots per inch) than CIJ printers for maximum clarity, and at speeds up to 1,200 feet per minute. It also starts up and shuts down in seconds. Because the VIAjet L-Series utilizes a cartridge-based ink supply, it is inherently clean nearly maintenance-free—no ink and solvent mixing required. Installation took less than a day and only required the mounting of a printhead bracket to the side of the existing conveyor line.

Engineered Solutions

Partner with Matthews and let us put our experience and technical know-how to work for you. We can design and develop specific solutions to help you increase productivity, reduce waste, and improve overall efficiency.

MATTHEWS MARKING SYSTEMS
SPECIALIZES IN:

- + Traversing Systems
- + Logos and Kickplates
- + Custom Mounting
- + Custom Software
- + Custom User Interfaces
- + Controls and Integration
- + Material Handling
- + Turn-key Automation

1 Quality Engineering.

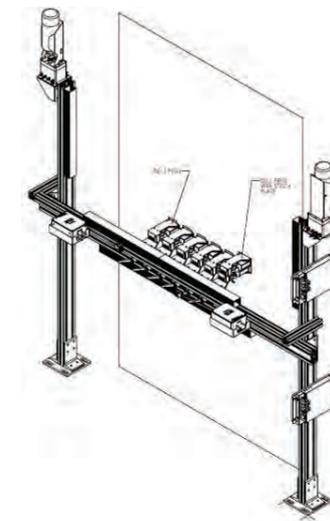
Don't leave your investment in the hands of third-party integrators. We're the experts at customizing our products to your specifications.

2 Save Time and Money.

We do the work so you don't have to. Avoid costly shortcuts and work-arounds by integrating to your specifications right from the start.

3 Maximize Productivity.

Get your line up and running with minimal interruptions on site, so your team can focus on what they do best.





Our Inks

We take pride in creating our inks in-house, and being experts in knowing your industry needs. From water-based solutions in color options, to excellent solvent based inks that are FDA-approved, we have the best team to help produce the ink you need. We are constantly innovating new ink types as regulations become stricter, new applications and substrates evolve, and manufacturing requirements update.

- + Water-based
- + Solvent-based
- + Various colors available
- + Single use and bulk delivery options
- + MEK inks, for very tough non-porous applications



VIAjet L-Series Specs

MPERIA® Controller⁽¹⁾

- + Controls multiple production lines
- + Combine multiple inkjet technologies
- + Stack printheads for extra print height
- + Touchscreen interface (available 7"–15")
- + Built-in database
- + Network-ready
- + Simple message creation & editing
- + Application-specific plugins
- + Password-protected user levels
- + Troubleshooting/maintenance screens
- + Virtually no storage limits for number of messages/logos, message length, types of barcodes and time codes, etc.
- + On-board image editor
- + Virtual simulator
- + Intuitive program design
- + Windows/Codesoft driver
- + TrueType fonts, grayscale and color images
- + Guided installation/configuration
- + Multilingual with full BIDI support

Communications & Networking

- + Ethernet-based with advanced connectivity possibilities for ERP systems, computers, PLCs
- + Remote User Interface control via VNC

Print Capabilities

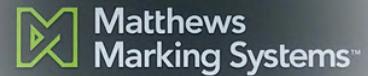
- + TrueType fonts with unique ink-saving print density and object color settings
- + On-line cost per mark & ink usage calculator
- + Static and dynamic text fields
- + User-editable variable fields
- + Customizable date and time codes
- + Customizable sequential and batch counters
- + Barcodes (GS1-128, GS1 DataBar, EAN-8/13, UPC-A, ITF/ITF-14, Code 39/128)
- + 2D codes (GS1-Data matrix, Data matrix, QR & Micro QR code)

	Number of ink cartridges	Maximum print height	Maximum print speed @75 dpi ⁽²⁾	Maximum print speed @600 dpi	Maximum print distance for readable 2D barcode	Printing direction	Printhead dimensions
L1	1	1/2" (12.7 mm)	1,600 ft/min (488 m/min)	196 ft/min (60 m/min)	3/4" (6.4 mm)	Horizontal or down	3.6" x 1.6" x 5.6" (92 x 42 x 143 mm) (W x H x L)
L12	1	1/2" (12.7 mm)	1,600 ft/min (488 m/min)	196 ft/min (60 m/min)	3/4" (6.4 mm)	Horizontal or down	3.4" x 5.1" x 8.3" (87 x 129 x 210 mm) (W x H x L)
L25	2	1" (25.4 mm)	1,600 ft/min (488 m/min)	196 ft/min (60 m/min)	3/4" (6.4 mm)	Horizontal or down	5.2" x 5.1" x 8.3" (133 x 129 x 210 mm) (W x H x L)
L50	4	2" (50.8 mm)	1,600 ft/min (488 m/min)	196 ft/min (60 m/min)	3/4" (6.4 mm)	Horizontal or down	8.8" x 5.2" x 8.3" (224 x 133 x 210 mm) (W x H x L)

(1) Find detailed information about our MPERIA® controllers on the MPERIA® controller data sheet.
 (2) Multiple printheads can be interlaced to increase print speed by two times to four times.

About Us

We are a global provider of marking and coding solutions designed to perform their best on high-demand, high-capacity production lines, where reliability is a must. We are a true partner, customizing our solutions to your requirements and building with high-quality materials to provide many years of service.



Expertise, Applied

We make printing the most reliable step in your production line by leading in three critical areas:

1 Innovation.

We maintain a technical advantage over competitors, investing in the continuous improvement of our marking solutions.

2 Flexibility.

No matter what you're trying to mark, no matter how your production lines are setup, we'll make it happen.

3 Know-How.

We understand your industry and speak your language, building solutions that fit your world.



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