



Empowering production lines to run lean, run smart, and run more.

Meet the revolutionary new marking technology that will transform your primary packaging operation.

MPERIA® Axian Inkjet AX1000

A better way to mark.

Don't settle for the hassles of continuous inkjet (CIJ) when you can instantly transform your primary marking operation with MPERIA® Axian Inkjet AX1000.

Fast. Flexible. User friendly.

What if you could combine the flexibility of continuous inkjet with the clean operation and low maintenance of thermal inkjet — and print multiple lines of text and 2D codes at your production speeds? Meet MPERIA® XIJ AX1000 — the revolutionary small character inkjet printer that leapfrogs CIJ to deliver a seamless, high performance and more cost-effective marking experience — without sacrificing print quality.



+ Game-changing reliability.

Re-imagined technology features fewer points of failure, minimal operational maintenance, and is up and running in no time. That's measurable efficiency and real cost savings.

+ Operational simplicity.

Instant start-up and shut-down, faster throughput, no solvent make-up required, and load while running ink system yields an exceptional marking system.

The best attributes of well known marking technologies converge in a cutting edge printing alternative.

MPERIA® XIJ AX1000 brings industrial-grade robustness and reliability to your packaging line. No more clogs, unscheduled downtime, solvent additives, or service calls. Just unparalleled efficiency plus a speed and print quality combination that surpasses other small character marking technology.

+ No solvent additives.

A single 800 ml ink cartridge slides into the printer, which features a 100 ml ink reservoir for uninterrupted printing. No make-up solvents required.

+ User-replaceable jetting technology.

An innovative 52-nozzle jetting disc featuring user-adjustable drop sizes can be swapped in less than 2 minutes when you need to renew your printhead.

Compact footprint means little-to-no production line modification to install.

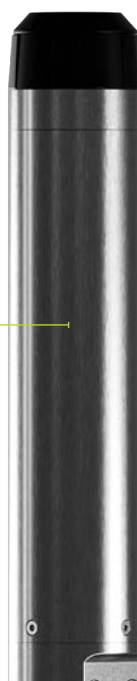


+ Plug and print simplicity with minimal training required.

Features an 8" capacitive LCD touchscreen with industry-leading MPERIA® user interface for message creation and data automation.

+ Application flexibility in any environment.

MPERIA® XIJ AX1000 is ideal for marking many different sizes and shapes of non-porous and semi-porous substrates on your packaging line.





Multi-line text



Lot/batch codes



2D codes

Superior marking performance without sacrificing print speed or readability. Make your mark — up to five lines including 2D codes at up to 200 feet per minute/3,000 characters per second.

Primary marking. Optimized.

MPERIA® XIJ AX1000 is the small character marking system you've been waiting for. With none of the drawbacks of continuous inkjet printing, plus easy, low-maintenance operation — you'll maximize your efficiency.

Superior Marking Performance

Print multiple lines of text and 2D codes at speeds up to 200 ft/min (60 m/min) without sacrificing print speed or readability.

Game-Changing Reliability

Fewer moving parts, stainless steel enclosure for cleaner, nearly maintenance-free operation.

Easy-to-Load and Change Ink Technology

Swap the single ink cartridge in seconds, with no make-up solvent required.

Plug and Print Simplicity

Features MPERIA®, the intuitive touchscreen user interface for message creation and data automation.

Lower Operating Costs

With faster startup, higher throughput, more uptime, and simple operation, total cost of ownership is lower than comparable CIJ marking systems.



Hinged PET clamshells



PET bottles



Coated cardboard



MPERIA®: Automated, Centralized, and Adaptable Marking and Coding Platform

- + Eliminate human error and rework; message and code automation all handled through a single intuitive interface
- + Grows with your business; whether adding additional printers or expanding with more production lines
- + Reduce complexity by removing unneeded middleware and 3rd party providers
- + Achieve next level productivity; seamlessly connect to your business systems



Engineered with Sustainability in Mind

MPERIA® XIJ AX1000 supports a cleaner, more eco-friendly operation.

- + Draws less than 25 watts of power
- + Closed ink system eliminates unnecessary solvent emissions

MPERIA® XIJ AX1000 Key Highlights

System Highlights

- + Fast 1-minute startup
- + Low maintenance operation

Throw Distance

- + Up to 0.32" (8 mm)

Throughput

- + Line speed: up to 200 fpm (60 mpm)
- + Max print speed: 3,000 characters per second (3-line message/5-dot wide characters/1-dot spacing)
- + Typical print speed: 1,500 characters per second (2-line message/7-dot wide characters/1-dot spacing)

Printhead

- + Mounting: 0 degrees (horizontal) to 90 degrees (down)

Printhead Umbilical

- + Material: Ethylene Propylene Diene Monomer (EPDM)

Weight (Nominal)

- + Controller: 2.20 lbs (1.0 kg)
- + Printhead: 2 lbs (0.9 kg), excluding umbilical
- + IDS (dry): 13.22 lbs (6.0 kg)
- + IDS (inked): 15.43 lbs (7.0 kg)

Ink Delivery System (IDS)

- + Single 800 ml ink cartridge (no make-up solvent required); 100 ml ink reservoir for uninterrupted printing while replacing empty cartridge

Ink Cartridge

- + Black, fast dry solvent and dye-based

Fonts

- + Bitmap matrix fonts from 5x5 to 39x52
- + Scalable fonts, including user-added TrueType fonts

Typical Startup Time

- + < 1 minute after power cycle

I/O and Communications

- + 100 Mbps Ethernet
- + Trigger input (photocell included)
- + Encoder input
- + Outputs for light tower (option) and system state (ready/printing/low ink/error)
- + MPERIA® external protocols: line action, XML, command

Electrical

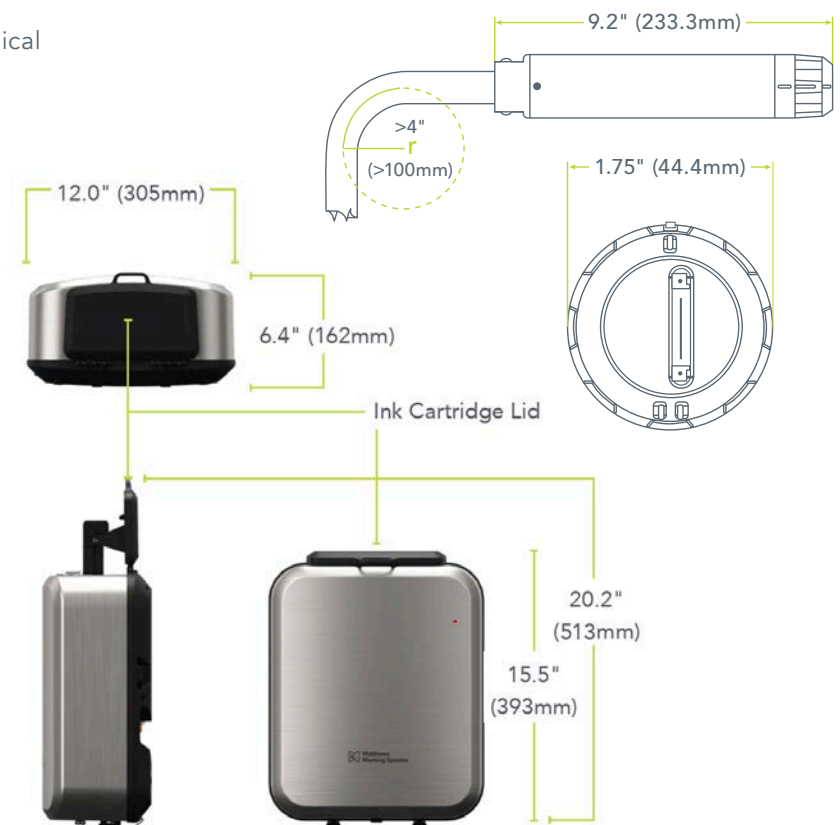
- + 100–240VAC @ 50/60Hz, 25W
- + 3m power cord (North America)

Environmental

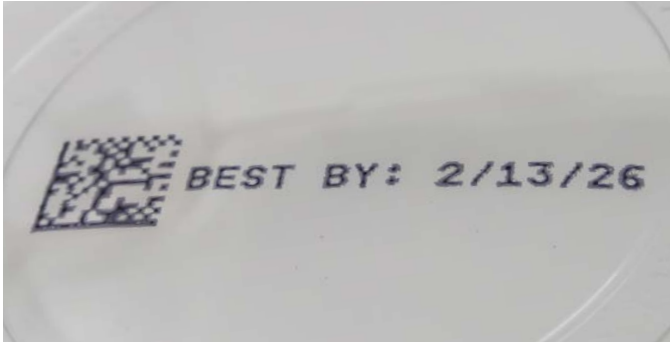
- + Operating temperature: 41F–113F (5C–45C); 10–90% RH non-condensing
- + IP54 rated controller and IP54 IDS

Options and Accessories

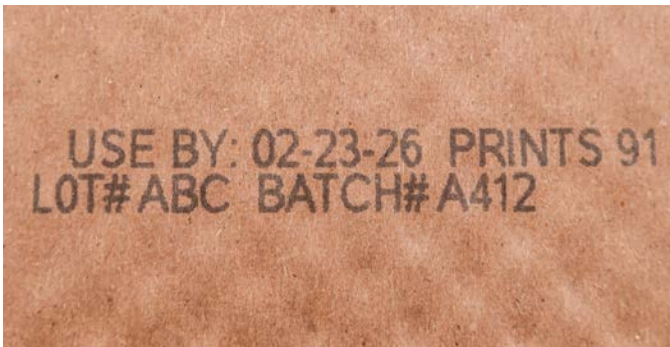
- + Mounting stands and brackets
- + Linear encoder
- + Light tower (red/orange/green)
- + Printhead cleaning kit
- + IDS cleaning cartridge



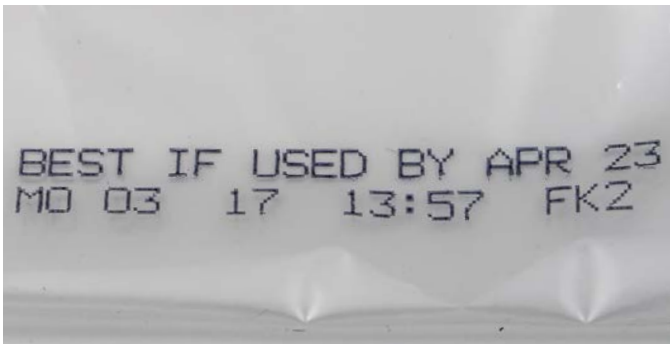
The MPERIA® Axian Inkjet AX1000 Advantage



Flexible film



Cardboard



Plastic



Coated cardboard

Higher throughput — don't let marking speed limit your production.

- + Throw Distance: Up to 0.32" (8 mm)
- + Line Speed: Up to 200 fpm (60 mpm)
- + Max Print Speed: 3,000 chars/sec (3-line message, 5-dot wide chars, 1-dot spacing)
- + Typical Print Speed: 1,500 chars/sec (2-line message, 7-dot wide chars, 1-dot spacing)

Fast drying, no-clog ink system for maximum uptime.

- + Single 800 ml ink cartridge
- + No make-up solvent required
- + 100 ml ink reservoir for uninterrupted printing
- + Black, fast dry solvent and dye-based

Safe and suitable for food, beverage, and household applications.

- + Operating Temp: 41-104F (5C - 40C)
- + IP54 rated controller and IP54 rated IDS
- + 10-90% RH non-condensing

Robust, reliable, and ready to roll.

- + Easy to operate, with ultra-fast startup and shutdown
- + Operational maintenance takes less than 1 minute/day
- + Simpler technology with fewer points of failure
- + Invulnerable to clogging contaminants and variable ink viscosity
- + No scheduled maintenance needed to replace pumps or filters

Make your mark — with more lines, more options.

- + Resolution: 100 DPI, characters and 2D Data Matrix
- + Maximum Height: Up to 0.50" (13 mm)
- + Print Lines: Up to 5 lines
- + Fonts: Bitmap matrix fonts from 5x5 up to 39x52 (full-height); Scalable fonts, including user-added TrueType fonts
- + 2D Codes

About Us

We are your dedicated marking and coding partner.

We are your team of engineers, product designers, supply chain specialists, print and ink experts, customer service advocates, and everything in-between working together to provide the best solution for your specific application.

We are who you want to partner with when reliability and quality can't be compromised. From thermal inkjet printers and drop-on-demand systems to labelers and a controller platform that does it all — we have the equipment and expertise to solve your most difficult marking and coding challenges. Looking for customized ink, OEM equipment or custom engineered systems? We do that too.



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 set up, 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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