Matthews Marking Systems™

ELIXIR INDUSTRIAL EQUIPMENT INCORPORATED

DATASHEET

VIAjet™ T SERIES

Matthews' VIAjet™ high-resolution piezo inkjet printheads provide exceptional barcode readability on porous substrates like corrugated cartons. The T-Series offers superior ink efficiency and a re-circulating autoprime function that alllows for up to 35% less ink consumption than competing brands. The 4" (102 mm) printheads can be stitched together for large branding and graphics, allowing you to replace costly labels and pre-printed carton inventory. With the ability to print vertical, horizontal and or down the VIAjet™ T-Series performs well on a range of porous packaging and in challenging industrial environments.

The VIAjet™ T-Series high-resolution printheads are powered by the MPERIA® platform. The MPERIA® controller effectively manages messages and settings for multiple printers across one or several production lines or packaging locations. An extensive selection of pre-formatted and configurable counters, batch controls, user-defined text fields and barcode symbologies makes message creation and selection a breeze with the intuitive, touchscreen interface. Seamless integration with ERP/MRP/WMS systems helps to reduce coding errors. Best of all, MPERIA® is expandable, allowing you to add other printheads or print technologies as needed, making your system investment secure.

VIAjet™ T-Series Technical Specifications

Operating temperature and humidity

- Ink dependent(2)

Electrical

- 96-264 VAC, 50-60Hz, 0.5-1A via adapter or 24VDC 90W filtered power

Inking System

- Safe, non-pressurized container
- Clean, disposable 500 ml, 125 ml or 1 liter ink bottle
- Unique ink cleaning system recycles ink and minimizes ink consumption
- Built-in ink filtration
- Low level ink warning

Inks

- Designed for porous surfaces
- Excellent light fastness performance
- "No Bleed" formulation
- Non-toxic, non-flammable and waterproof
- Black, red and blue pigmented inks





*excludes the T100S

MPERIA® Platform

MPERIA® Controller[1]

- Controls multiple production lines
- Mix 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
- Color images
- Guided installation/configuration
- Multilingual with full BIDI support

Communications & Networking

- Ethernet-based with advanced connectivity possibilities for ERP systems, computers and 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, Code39/128)
- 2D codes (GS1-Data matrix, Data matrix, QR & Micro QR code)

	Resolution	Minimum character size	Maximum image height	Maximum print speed[3]	Maximum print distance [4]	Printing direction	Printhead dimension
T50	192 dpi vertical and 64-640 dpi horizontal	5/64" (2 mm)	2" (50 mm)	276 ft/min (81 m/min)	1/4" (6.4 mm)	Horizontal (Side)	14.23" x 8.5" x 18" (364 x 216 x 4,570 mm) (W x H x L)
T100	192 dpi vertical and 64-640 dpi horizontal	5/64" (2 mm)	4" (100 mm)	276 ft/min (81 m/min)	1/4" (6.4 mm)	Horizontal (Side)	14.23" x 8.5" x 18" (364 x 216 x 4,570 mm) (W x H x L)
T100S	192 dpi vertical and 64-640 dpi horizontal	5/64" (2 mm)	4" (100 mm)	276 ft/min (81 m/min)	1/4" (6.4 mm)	Vertical (Down)	8.8" x 5.2" x 41" (224 x 133 x 1,042 mm) (W x H x L)

(1) Find detailed information about our MPERIA® controllers on the MPERIA® controller data sheet.
(2) Typically 50-104 °F/10-40°C, 10-80% RH (non-condensing) for water-based inks. For more information see data sheet for the ink that is being used.
(3) Maximum recommended speed for printing GS1-128 barcodes on carton boxes. Higher speeds up to 650 fpm (200 m/min) can be achieved in specific applications.
(4) Printing alphanumeric characters.

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