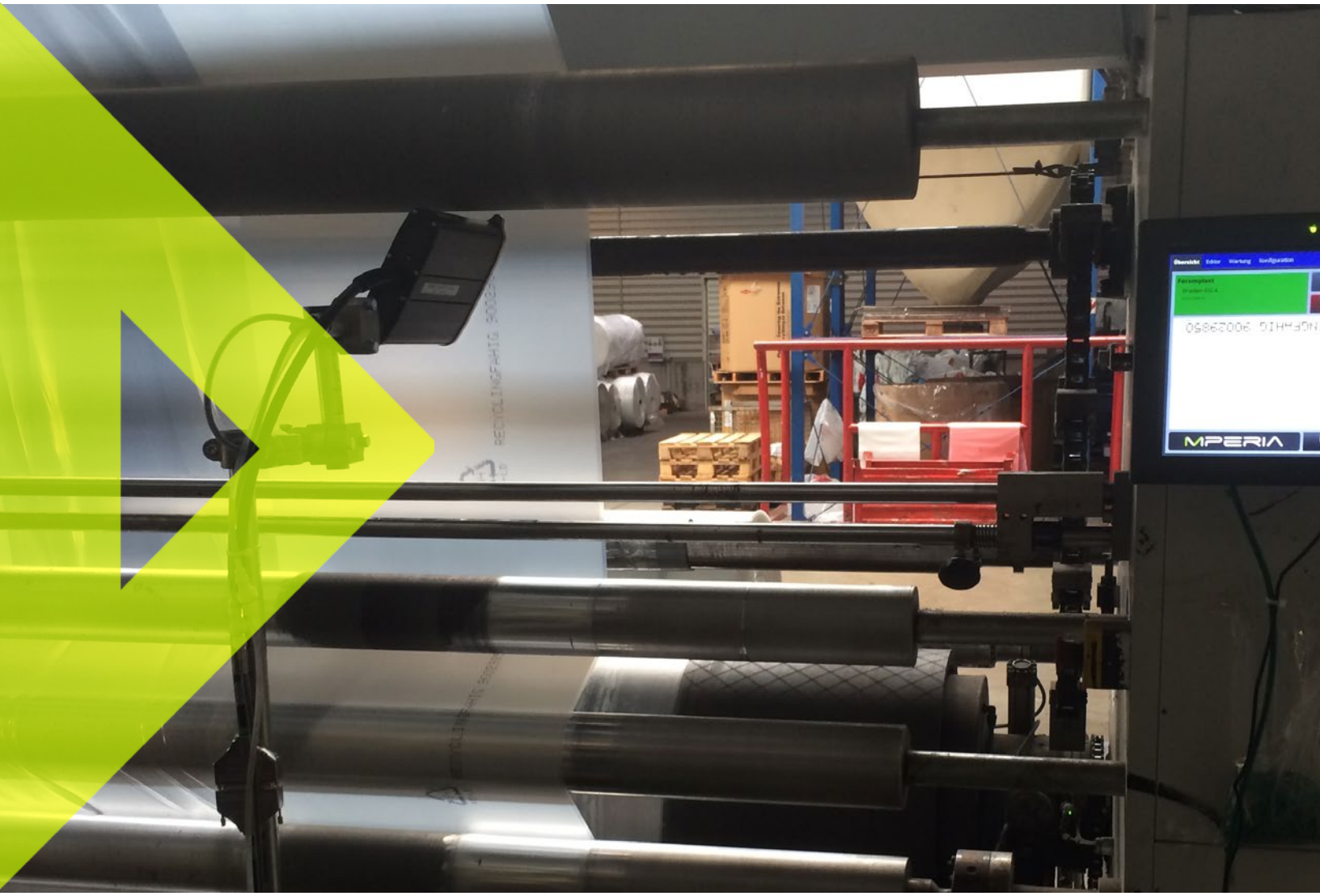
Matthews Marking Systems

MPERIA™ V-Series

DROP-ON-DEMAND VALVE JET PRINTERS POWERED BY MPERIA®

Unequaled Reliability, Speed, and Flexibility

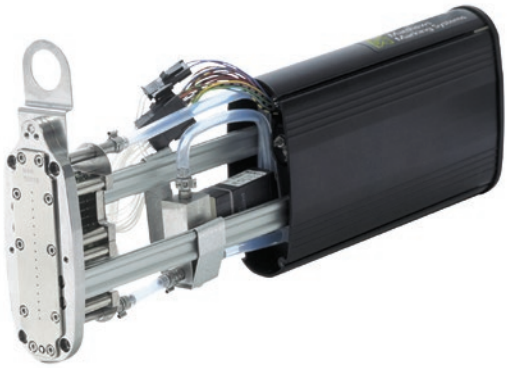


INCREDIBLY CLEAR, CRISP MARKS ON YOUR POROUS AND NON-POROUS SUBSTRATES WITH THE FASTEST AND MOST RELIABLE PRINTHEADS IN THE INDUSTRY

MPERIA® V-Series™ drop-on-demand valvejet printheads offer incredible print quality in flexible configurations and feature one of the fastest speeds in the industry. And because we feature the longest life printheads, your production lines continue to run at the highest efficiency.

Outstanding Reliability

- Longest life printheads in the industry keep your line running
- Flushing valve systems mean cleaning and maintenance are a breeze
- Advanced printhead nozzle design allows you to install in harsh environments with confidence



Unmatched Flexibility

- Install as your production line requires with over, under, and side firing capabilities
- Print your mark at the required height and resolution with tilting printheads
- Print your oversized marks easily by stacking printheads horizontally

True Scalability

- Easily grow from one V-Series on your line to multiple V-Series printers on additional lines all driven by one controller
- Seamlessly integrate print verification and validation without expensive middleware
- Prevent integration headaches and complexity with a single interface controlling your V-Series and 3rd party coding technologies

Introducing MPERIA®, A Truly Universal Controller

- 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

8" V-Series Bundle

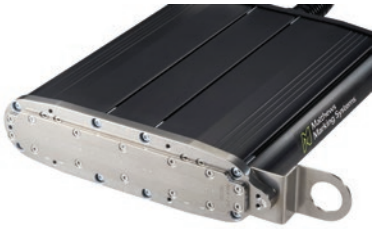
The 8" V-Series bundle is a convenient turn-key packaging of all components necessary for driving up to 32 V-Series valves (i.e. 1 x 32V printhead, 2 x 16V, or 4 x 7V). Table, counter, or wall mounting available. The bundle includes an 8" MPERIA Controller, V-Link, cabling, and mounting hardware.

V-Series Printheads

V-Series printheads meet your large and small character marking requirements offering a choice of 7, 16, and 32 valves per head with mini, midi, and maxi nozzle options.

7 Valve Printhead
Mini, Midi, Maxi Nozzle Options

16 Valve Printhead
Mini, Midi, Maxi Nozzle Options



32 Valve Printhead
Mini, Midi, Maxi Nozzle Options

V-Series printhead	Printhead type	Minimum character size	Maximum character size	Maximum speed	Maximum print distance[3]	3-way valve[5]	Dimensions
8000+ Maxi	7-Valve 16-Valve 32-Valve	1/4" (6.35 mm)	7-VALVE: 1 1/4" (31.75 mm) 16-VALVE: 2 1/2" (63.5 mm) 32-VALVE: 5" (127 mm)	780 ft/min[1] (240 m/min) 400 ft/min[2] (120 m/min)	1/2" (12.7 mm) 1/4" (6.4 mm)	16-Valve 32-Valve	7-VALVE: 7.52"L x 1.68" W x 4.84" H (191 x 42.7 x 123 mm) 16-VALVE: 7.48"L x 1.73" W x 6.26" H (190 x 44 x 159 mm) 32-VALVE: 7.48"L x 1.73" W x 8.8" H (190 x 44 x 223.4 mm)
8000+ Midi		3/16" (4.76 mm)					
8000+ Mini IP65-7-valve printhead[4] available for washdown applications		3/32" (2.38 mm)					
Inks	Water-based, Water-fast, Alcohol (n-propylene, isopropylene, ethenol). Ethyl Acetate, MEK, Acetone, Pigmented						

(1) At 1.8 mm spacing. (2) At 1.0 mm spacing. (3) At <200 fpm. (4) IP65 3.4" Diameter x 5.2" L (87.5 x 132 mm).
(5) Unique 3-way valve enables you to quickly purge solvent, minimizing maintenance and downtime.

Our Inks

Our ink formulations, cleaners, and supply systems are designed to reliably deliver optimal performance. Advanced ink circulation technology reduces waste and cost-per-mark while bulk ink options enable you to run longer for less.

We offer a wide variety of pigmented, porous and non-porous inks, small and large capacity ink delivery systems, with fast startup, ink color changes, rugged construction and reliable performance.

Print Capabilities

V-SERIES PRINTHEAD	MAXIMUM SPEED	PRINTHEAD TYPE	MINIMUM CHARACTER SIZE	MAXIMUM CHARACTER SIZE	MAXIMUM PRINT DISTANCE[3]
8000+ Maxi	780 fpm[(1)]	7-Valve 16-Valve 32-Valve	1/4" (6.35 mm)	7-Valve: 1 1/4" (31.75 mm) 16-Valve: 2 1/2" (63.5 mm) 32-Valve: 5" (127 mm)	1/2" (12.7 mm)
8000+ Midi	400 fpm[(2)]		3/16" (4.76 mm)		
8000+ Mini	400 fpm[(2)]		3/32" (2.38 mm)		1/4" (6.357 mm)

(1) At 1.8 mm spacing
(2) At 1.0 mm spacing
(3) At <200 fpm

Matthews Marking Systems

Matthews Marking Systems is a global supplier of marking and coding solutions for product identification, branding, and traceability. Our customers trust us to help them achieve increased productivity while driving bottom line improvement with reliable systems for any application. With over 160 years of marking and coding experience, we've established a global reputation as a premier innovator helping customers succeed in industrial and consumer goods packaging industries.

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