

# High Speed Industrial Inkjet Printers

Monochrome Variable  
Data Printing



Innovative



Affordable



Flexible



Profitable



## Master Class Solution For VDP

Welcome to JETSCI® Inkjet Imprinting Printers, your go-to high-performance monochrome variable data printing solution. Our advanced systems provide exceptional accuracy and cost-efficiency, producing sharp barcodes, text, images, and other printed elements with the highest quality.

Our scalable solutions can be tailored to meet your specific project requirements, including varying colours, higher speeds, resolutions, and print widths, making JETSCI® the versatile and reliable partner for all your printing needs.



## Variety of Applications

The JETSCI® Inkjet Imprinting Solutions is designed for sheet and web printing, delivering high-quality variable data solutions for labels, tickets, packaging, envelopes, business forms, and flexible packaging.



Customise labels with variable 2D codes, including QR codes, for enhanced brand protection.



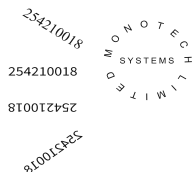
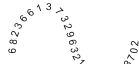
Imprints fully personalized and secure variable data, making it ideal for tickets, phone cards, packaging solutions and more



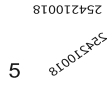
Prints 2D codes, barcodes, and numbering sequences with precision for envelopes and business forms.



QR & variable data Printing on security labels and Tax stamps to enhance traceability and prevent counterfeiting.



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## Models

### JETSCI® Y Series

- Prints high-quality variable data at speeds up to 150 m/min at native resolution of 600 dpi.

### JETSCI® K Series

- Offers variable data printing at speeds up to 180 m/min at native resolution of 600 dpi.

### JETSCI® M Series

- High-quality variable data printing at speeds up to 180 m/min at native resolution of 360dpi.

### JETSCI® X1/X2 Series

- Prints high-quality variable data at speeds up to 200 m/min at native resolution of 1200 dpi.

### JETSCI® E Series

- Variable data printing at speeds up to 150 m/min at native resolution of 600dpi.

## Simple

Utilizing Piezo DOD technology, our standard equipment includes an industrial controller for 24/7 production and pre-installed advanced VDP software for real-time printing. Custom configurations are available to meet specific customer needs.

## Modular

JETSCI® inkjet imprinting solutions offer modular flexibility, with print widths ranging from 43 mm to 108 mm. Our advanced printers feature a selection of print heads, providing outstanding precision and versatility.





## Seamless Integration

Our Printers offer seamless integration with existing web presses, sheetfed systems, and offline substrate carriers, ensuring a smooth and efficient transition. Whether you are working with continuous web presses, discrete sheetfed equipment, or handling substrates offline, our technology effortlessly fits into your current setup. This flexibility minimizes disruption and maximizes productivity, allowing you to enhance your printing capabilities without overhauling your existing infrastructure.



## Specialized Inks

JETSCI® inkjet imprinting solutions offer a diverse range of specialist inks, including UV curable and water-based. Our selection features black, spot colors, varnish, and security inks, specifically designed for brand protection and security printing. With features like invisible elements and tamper-evident properties, these inks ensure that your printed materials remain secure and trustworthy.

## WHY? Choose JETSCI® Inkjet Imprinting Systems?



### Unmatched Productivity

Operates at speeds of up to 300 m/min, maximizing output and minimizing downtime.



### Faster ROI

Deliver rapid returns on investment by streamlining operations, reducing waste, and increasing production efficiency.



### Versatile Platform

Configurable print widths ranging from 43 mm to 108 mm, accommodating a variety of applications.



### Exceptional Print Quality

Achieves a native resolution of 600dpi for sharp, vibrant prints.



### User Friendly

A user-friendly touch control panel enables seamless operation, effortless printhead maintenance, and easy customization of print settings.

# Technical Specifications

		YUV   YAQ		K	M	X1 / X2	E
Print Head		Kyocera KJ4A (Piezo DOD)	Kyocera KJ4B (Piezo DOD)	Konica Minolta 1800i Series (Piezo DOD)	Konica Minolta 1024i Series (Piezo DOD)	Fujifilm Dimatix	Ricoh Gen 6 (Piezo DOD)
Print Width mm		Multiple of 108 mm		Multiple of 75 mm	Multiple of 72 mm	Multiple of 43 mm	Multiples of 54.1 mm
Print Resolutions		600 dpi (Native)			360 dpi (Native)	1200 dpi (Native)	600dpi (Native)
Speed	(Inks, Resolution and Print Head type dependent)	Up to 150 m/min		Up to 180 m/min		Up to 200 m/min	Upto 150m/min
Drop Volume		3 pL, 7pL 11pL, 14pL (Binary or Gray Scale)	5 pL, 7pL 12pL, 18pL * (Binary or Gray Scale)	3.5 pL (Gray scale / Binary mode)	13 pL (Gray scale / Binary mode)	2.4pL (Gray scale / Binary mode)	Binary Mode: 5pL Grayscale mode: 5-15pL
Ink Type		UV Curable	Water Based (Dye/Pigment)	UV Curable, Water Based (Dye/Pigment)			
Ink Tanks		5 Litres					
Standard Color		Monochrome   Spot   Security					
Ink Options		Spot Color, Invisible, White		CMYK, Spot, White, Varnish , Security inks			Black, Spot Color
Recommended Substrates		Paper, Coated, Glossy, Films, Plastics, Polyester, Aluminium Foils, Labels, PVC, Carton, PET , Tyvek etc.					
VDP Software Input Format		BMP, JPEG, PNG, TIFF, CSV, TXT, XLS, Database File, PDF Printing (Optional)					BMP, JPEG, PNG, TIFF, CSV, TXT Files
Controller Configuration		Industrial PC with 64 - Bit Windows 11, 32 GB RAM, 250 GB SSD (Configurable)					
Optimum Temp & Humidity Range		20-26 °C, Humidity 40-60%, Non Condensing					
Air Supply Requirements		Compressed Air, 6-8 Bar, Moisture & Oil Free					
Electrical Requirements		Standard 220-240 V, 50 Hz, 10 A only for Inkjet Print Module (Configuration dependent)					

# JETSCI® USCI

## Variable Data Inkjet Printing, Slitter Rewinder and the Inspection System



The VSRI system includes high-performance slitters and rewinders specifically designed for the label printing industry, capable of printing variable data (UV or water-based inkjet) with the JETSCI® Y or M series inkjet printing systems. It also features 100% camera inspection and verification of printed variable data. This complete

solution is expertly crafted to effectively address counterfeiting issues. Customers can personalize every label or document with unique barcodes, 2D/QR codes, text, numbers, images, and more, all of which can be verified by a high-resolution camera inspection system.

### Features:

- ▶ Slitter Rewinder (fully servo driven)
- ▶ Loose and tight web tension control
- ▶ Multiple lane Inkjet printing
- ▶ Speed up to 150 m/min
- ▶ Upto 600 dpi native
- ▶ VDP camera inspection
- ▶ Up to 450 mm web width
- ▶ UV curing system | IR dryers
- ▶ Track & Trace module

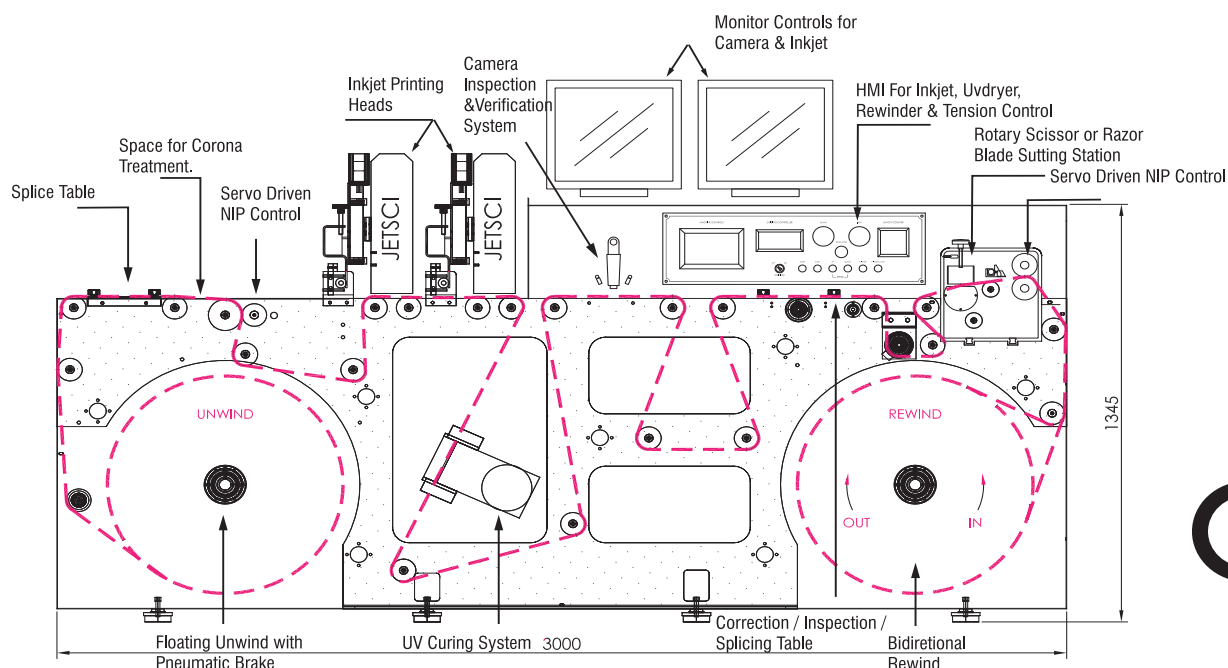
### Specifications :

- ▶ Web width in configurations of 250/330/410/450 mm
- ▶ Max. 1000 mm Rewind and Unwind Dia
- ▶ Speed up to 150 m/min.
- ▶ Adjustable Pneumatic or Power brake to control unwind tension
- ▶ Electronic Web Guide or Floating Unwind
- ▶ Variable motor speed control with dynamic braking
- ▶ Pneumatic Shaft with 76 mm Core Dia as standard
- ▶ 2 X Adjustable splice table
- ▶ Inspection & correction table with an optional Stroboscope for easy print inspection at higher speed
- ▶ 2 X Servo driven Nip rollers Assy for perfect tension in loose wound webs (optional)
- ▶ Supply Voltage 440V, 3 Phase, 50 Hz. AC

### Optional Accessories :

- ▶ Multiple lane Missing Label Detection
- ▶ Web Inspection Camera
- ▶ In-line Corrna treatment
- ▶ Static eliminator





Model	JETSCI® M Series	JETSCI® Y Series
Inkjet Type	Piezo Drop On Demand Inkjet Print head Technology	
Print width	In Multiples of 72 mm	In Multiples of 108 mm
Web width	Up to 450 mm	
Print Resolution	360 X 360 DPI	600 X 600 DPI
Drop Sizes	13pL (8 Level Grey Scale)	6,7,11,14 pL (4 Level Grey Scale)
Speed	Up to 120 m/min	Up to 75 m/min
Positioning	X - Z axis movement of print heads fully controlled through servo motors and touch Screen HMI.	
Ink Type	Aqueous (Water Based) / UV Curable - Arc + LED	
Color(s)	Black/Spot Color/Varnish/White	
Substrates	Paper, Glossy, Coated, PET, BOPP, LDPE, Metallic, Tyvek etc.	
System Configuration	Industrial PC with 64- Bit Windows OS, 16/32/64 GB RAM, 500 GB HDD	
Data Type	CSV, TXT, XLS, TIFF , JPEG, and other data base files, PDF at an extra cost	
Camera Type	Multiple Lane Line Scan or Area Scan Camera	
Inspection	Barcodes/ QR/2D Codes/ OCR inspection & verification	
Report	Complete report on the verified / rejected labels and comparison with original data base	
Electrical Requirements	220-240 V, 50 Hz, 10 A (Inkjet & Camera System)	



## Eco-Friendly Solutions

JETSCI® prioritizes sustainable environmental practices, consistently exceeding industry standards and regulations. Our UV-curable and water-based inks provide eco-friendly alternatives, free from SVHCs and toxic metals, and compliant with RoHS. Engineered for reliability and exceptional printing quality, these inks enhance printhead lifespan and deliver impressive durability against water, light, ozone, and abrasion, making them suitable for a wide variety of media applications.



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