

FUJIFILM 42K Printbar System

An Industrial Inkjet Printing System



Personalized
direct mail



Form-based
transaction
imprinting



Book and
publication
printing



Corrugated
and folding
cartons



Coding
and marking

About the FUJIFILM 42K Printbar System

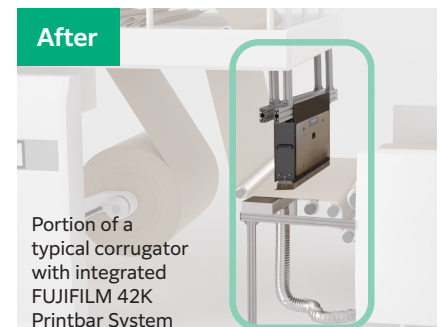
The system



The FUJIFILM 42K Printbar System is designed to add variable data in a range of widths to cover various applications and types of integrations. Pre-aligned printheads eliminate the need to stitch printbars together.

- Available in a wide range of widths
- Cross-process resolution of 1200 dpi
- Speeds up to 920' (280.4 m) per minute

What is inkjet integration?



Inkjet integration is adding digital inkjet capability to existing production lines.

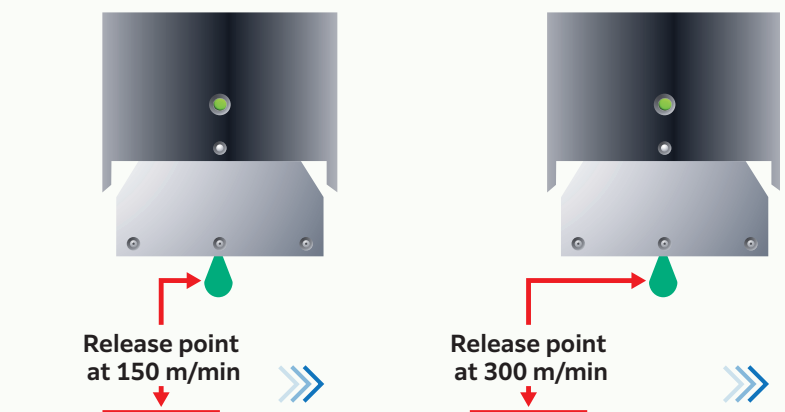
Technology Spotlight: Time of Flight Compensation

The FUJIFILM 42K printbar system's time-of-flight compensation responds to substrate speed changes in real time.

This enables optimal print quality as web presses ramp up during startup.

Using this technology, we are able to maintain accurate drop placement even when the substrate is accelerating or decelerating by as much as 16 feet per second squared (16 ft/s²).

That's 0 to 300 ft/min in less than 10 inches of travel!



As the substrate moves faster, Fujifilm technology compensates by releasing drops earlier.

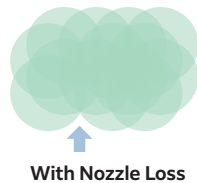
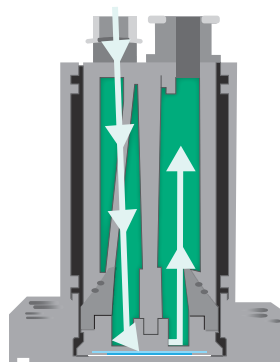
Getting colors aligned more quickly reduces waste.

Technology

Fujifilm has leveraged its imaging and information technologies to create an integrated print system that is adaptable to virtually any printing need.

REDIJET®

Fujifilm's patented REDIJET ink recirculation system keeps ink flowing all the way to the jetting nozzles, which allows for fast startup, high uptime, and easy cleaning.



Nozzle Redundancy

Fujifilm's SAMBA® printheads have 32 rows of nozzles each and are capable of multi-pulse waveform. These provide redundancy in the event of nozzle loss.

No Refurbishment Required

Fujifilm's integrated print systems are designed and built to exacting standards in order to minimize the down time required for refurbishment and repair.



Imprinting Synchronization

If a trigger mark is missing, Fujifilm's imprinting synchronization algorithm compensates to hit the next location without affecting operation.



Worldwide reach

FUJIFILM Integrated Inkjet Solutions provides global support for its customers. Fujifilm customers benefit from fully integrated, reliable print systems built to industrial standards. This includes production-ready, multi-color print systems fully integrated into the production process.

Technical specifications

Parameter	FUJIFILM 42K Printbar System	
Printbar Dimensions	Print Width	Dimensions
	13.5 in	29.3 x 7.6 x 26.8 in (74.42 cm x 19.3 cm x 68.07 cm)
	17 in	36.2 x 7.6 x 26.8 in (91.95 cm x 19.3 cm x 68.07 cm)
	20.4 in	36.2 x 7.6 x 26.8 in (91.95 cm x 19.3 cm x 68.07 cm)
	27.2 in	43 x 7.6 x 26.8 in (109.2 cm x 19.3 cm x 68.07 cm)
	40.9 in	56.6 x 7.6 x 26.8 in (143.7 cm x 19.3 cm x 68.07 cm)
Print Speed & Resolution	Cross process resolution 1200 dpi	
	300 FPM / 91 m/min (Resolution: 1200x1200 dpi)	
	550 FPM / 168.5 m/min (Resolution: 1200x600 dpi)	
	700 FPM / 213.3 m/min (Resolution: 1200x400 dpi)	
	920 FPM / 280.4 m/min (Resolution: 1200x300 dpi)	
Color & Quality	Monochrome	
	CMYK (CMYK to monochrome conversion)	
	2-bit grayscale	
	Native drop size 2.4 or 3.5 pL	
	Max drop size 13 pL	
	Smallest font 2 pt (4 pt knockout)	

Parameter	FUJIFILM 42K Printbar System
Fluid	Aqueous - dye, pigment, or dye-pigment hybrid inks
	Manual or automatic nozzle maintenance
	Bulk ink container available in 20L, 210L, and 1000L with level sensing
	Intermediate reservoir to allow for continuous printing while bulk container is being replaced
Print Controller	Print queue management using Job Tickets and Hot Folders
	RIP Stream; simultaneous RIP and print
	RIP-to-TIFFs; jobs are ripped in advance and saved as ready-to-print TIFFs
Print Verification	Output synchronization for simplex or duplex printing
	Verifies up to the first ten pages before printing for items such as: separations, cut marks, barcodes, dimensions, and density
File Format & Page Data Stream	PDF (including ISO 32000-1 and 32000-2 PDF 2.0), PDF/VT TIFF; can be generated with included RIP software or off line For legacy transaction data streams, a third party conversion utility may be required
Interfaces	Windows® 11 and Print Engine Control Software (PECS)
Power	208-240VAC, 1 Phase, 50/60Hz, 20A max for single printbar control
	208-240VAC, 3 Phase, 50/60Hz, 40A max for multiple printbar control
	110-240VAC, 1 Phase, 50/60Hz, 30A max for ink cabinet

Global resources

With office locations in every major geographic region, Fujifilm provides the latest technology quickly and is there to help at any time. Some of our locations include:

- FUJIFILM Australia
- FUJIFILM Canada
- FUJIFILM Mexico
- FUJIFILM Europe
- FUJIFILM New Zealand
- FUJIFILM North America
- Offices in every major European country



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