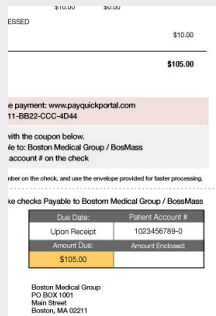# FUJIFILM

FUJIFILM 42K Printbar System

An Industrial Inkjet Printing System

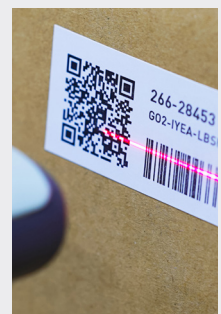**Personalized direct mail**

Form-based transaction imprinting

Book and publication printing

Corrugated and folding cartons
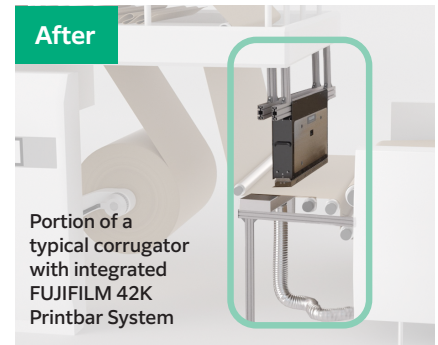
Coding and marking

About the FUJIFILM 42K

The system

The FUJIFILM 42K Printbar System is designed to add variable data at any width needed. Its scalablity means it can span the width of virtually all substrates. Pre-aligned printheads eliminate the need to stitch printbars together.

- Scalable to meet application needs in 1.6" (4.1 cm) increments

- Cross-process resolution of 1200 dpi

- Speeds up to 1000' (304 m) per minute

What is inkjet integration?

Before

Portion of a typical corrugator producing corrugated boxes

After

Portion of a typical corrugator with integrated FUJIFILM 42K Printbar System

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

Technical Specifications

Parameter	FUJIFILM 42K Printbar System
Print Width	Scalable to meet application needs in 1.6" increments
Print Speed & Resolution	Cross process resolution 1,200 dpi
	425 FPM / 129.5 m/min (Resolution: 1200x1200 dpi)
	615 FPM / 187.5 m/min (Resolution: 1200x600 dpi)
	1000 FPM / 304.8 m/min, 1800 FPM/548 m/min in dual array config. (Resolution: 1200x300 dpi)
Fluid	Aqueous dye inks
	Manual or automatic nozzle maintenance
	Bulk ink container with level sensing
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
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
	Output synchronization for simplex or duplex printing
Print Verification	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® 10 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

Technology

Fujifilm has leveraged its imaging and information technologies to create a flagship print system that is adaptable to virtually any printing need.
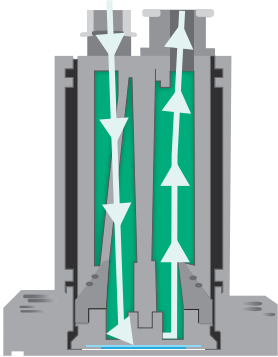
REDIJET®

Fujifilm's patented REDIJET ink recirculation system keeps ink flowing, which allows for fast startup, high uptime, and easy cleaning.

With No Nozzle Loss

With Nozzle Loss

Nozzle Redundancy

Fujifilm's SAMBA® print systems have 32 rows of nozzles per printhead, which provides redundancy in the event of nozzle loss.

Imprinting Synchronization

Fujifilm's imprinting synchronization algorithm can sense registration marks at over 1000 fpm.

This algorithm analyzes the marks to adjust printing in real time. If a trigger mark is missing, the algorithm automatically compensates in real time to hit the next location without affecting printing operation.

The algorithm can also compensate for drifts of pre-print spacing over the print run.

The algorithm can be programmed to print any number of images from one registration mark.
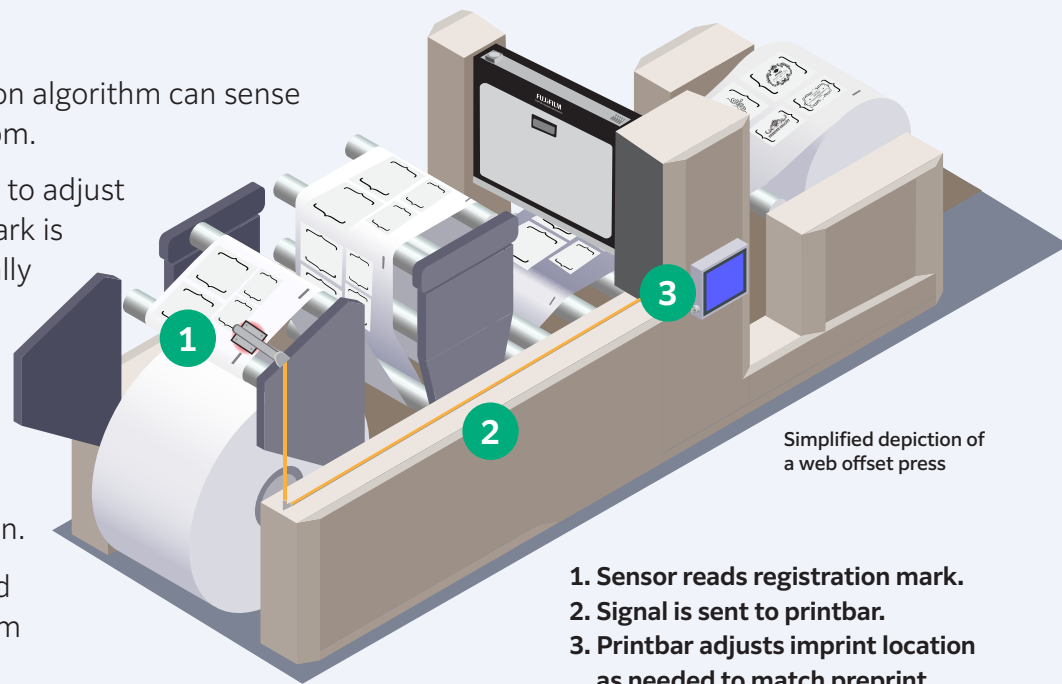
Simplified depiction of a web offset press

1. Sensor reads registration mark.
2. Signal is sent to printbar.
3. Printbar adjusts imprint location as needed to match preprint.

Fast Startup, Low Waste

The FUJIFILM 42K printbar system's time-of-flight compensation responds to substrate speed changes in real time. This enables users to reach optimal print quality as web presses ramp up during startup.

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.

Worldwide Reach

FUJIFILM Integrated Inkjet Solutions provides global support to its customers. 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.

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 Fujifilm company locations include:

- FUJIFILM Australia
- FUJIFILM Canada
- FUJIFILM Mexico
- FUJIFILM Unigraphica
- FUJIFILM North America
- Offices in every major European country

FUJIFILM

Flexibility

The FUJIFILM 42K Printbar System is designed for maximum productivity and return on investment. It will meet your needs for color, monochrome, or specialty printing.

Various optional accessories and features are available for purchase with the 42K System to provide further flexibility:

- Dryers
- Transports
- Splice avoidance
- Automatic, real-time insetting
- Mounting and integration
- Extended service and support
- Rotating head assemblies (which align to arched webs)

FUJIFILM 42K shown on artist's concept of corrugator.

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Scan here to learn more about our many other integrated inkjet printing solutions.

This document was printed using a FUJIFILM JPRESS™ 750s printer.