FUJIFILM
Value from Innovation

Exceptionally Fast Full-Color Inkjet Sheet-Fed Digital Press

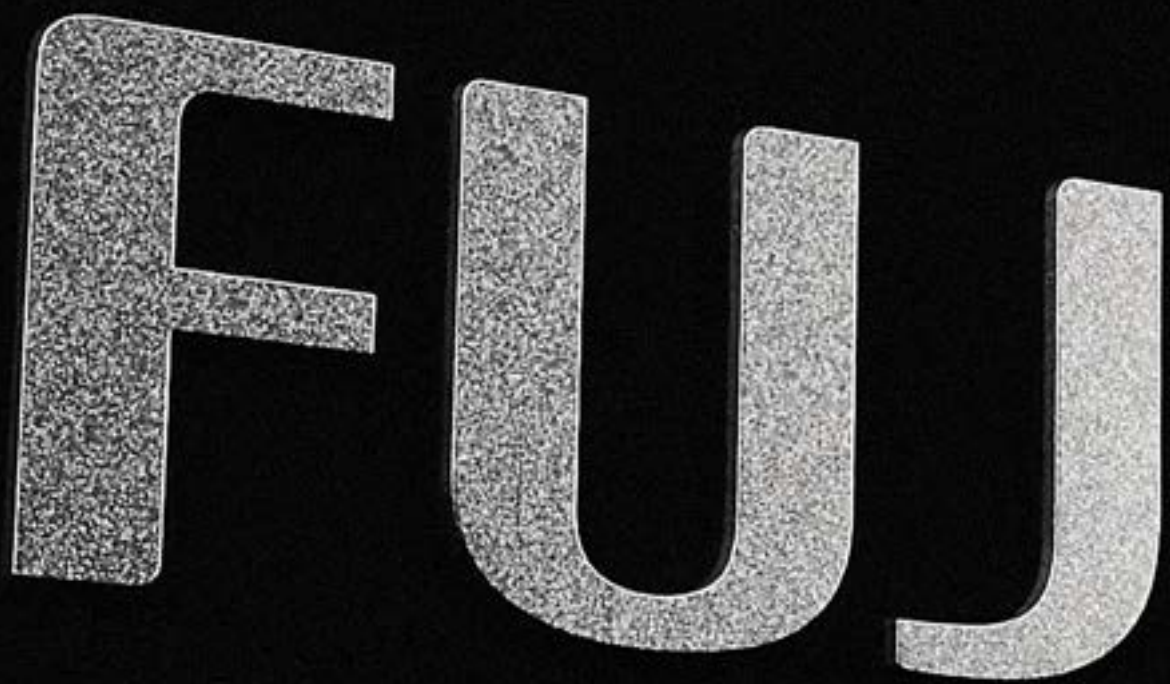
J Press

750HS

Product Guide

Why Fujifilm?

Fujifilm believes that our collective future of print is based on dynamic collaboration. Therefore, you deserve a partner who understands where you have been, where you are currently, and where you want to go. Fujifilm's business is anchored to the traditions of our industry and the historical relationship we have with the print community. When we combine our history of innovation and our commitment to product development with our enthusiasm for our customers' success, together we can achieve any vision you have for your company.



History of Innovation

The Fujifilm difference is supported by 4 pillars of strength. Our long history and countless milestone achievements are proof of both our longevity and dedication to this amazing industry. Fujifilm grew up in this business and there is no substitute for the collective experiences we have had and the depth to our understanding of the business. Our portfolio truly spans the entire print industry and is purely the result of the other pillars. Our history of innovation drives a culture of progress.

Global Strength

The culture within Fujifilm is rooted in respect and innovation. The care with which we engage clients and investment in solutions has been critical to our ability to create advances in technology and infrastructure. Being devoted to traditional business processes allows us to align with traditional hierarchy while also being innovative and disruptive. Our approach is born from mutual respect for others and a willingness to drive change.

Local Partner

Fujifilm Graphic Communication Division (GCD) is full of passionate team members. While globally, Fujifilm invests in Research & Development at a frenetic pace ($7 million dollars per day), locally, Graphics Communication Division (GCD) embraces a culture of relentless service & support. When it comes to innovation, we develop all our technology in house including printheads, inks, inkjet technology and image processing systems. And there is no better place to witness this than our remarkable Innovation Lab. Located in our North American Headquarters in Hanover Park, Illinois, just 30 minutes west of Chicago, the Fujifilm Graphics Innovation Hub (GIH) is here to showcase for you the newest innovations from Fujifilm's Graphic Communication Division. The GIH demonstrators have industry experience and are experts in the operation and use of our print equipment.

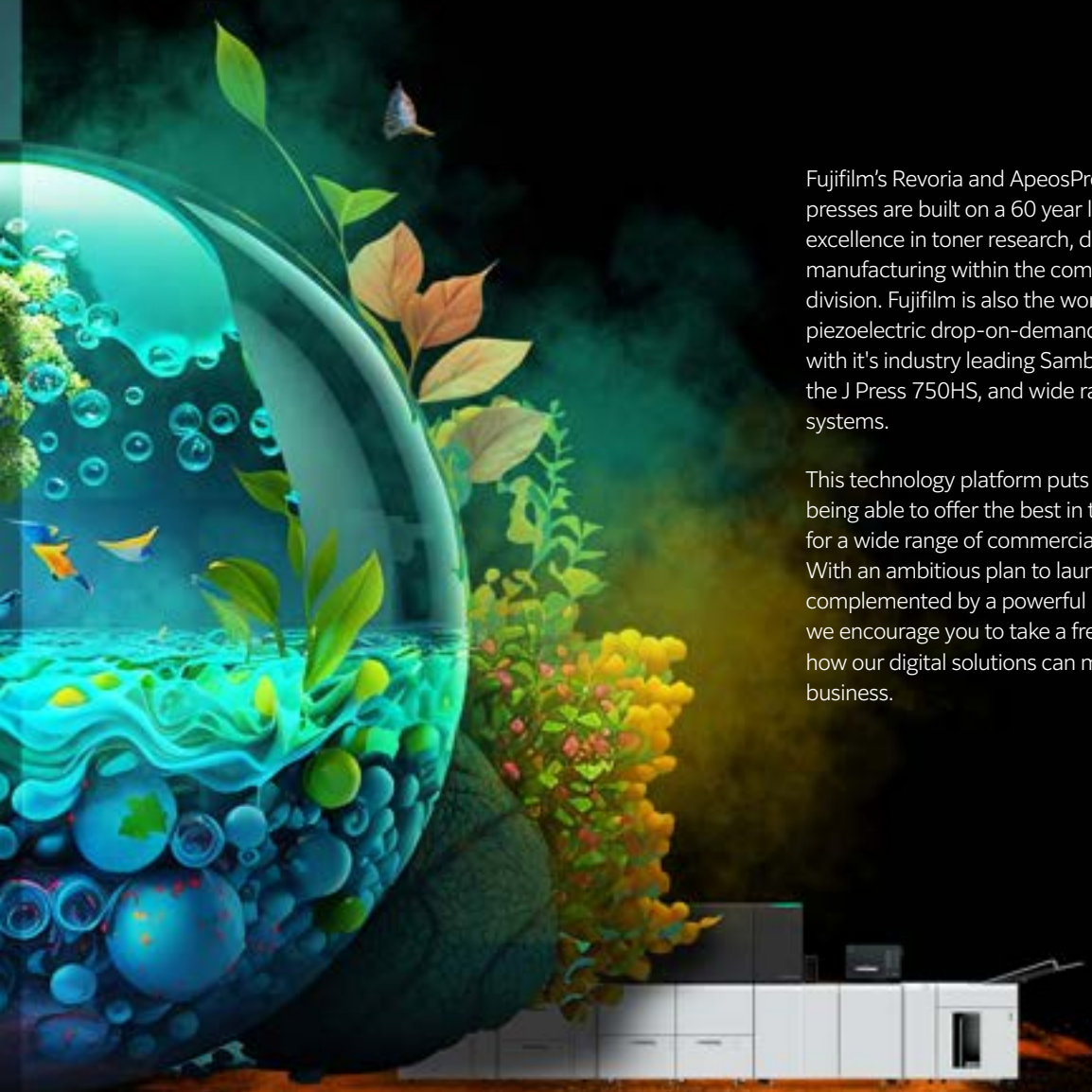
Broad Portfolio

The Fujifilm portfolio is broad and is the result of our history of innovation, our corporate reach, and our local connections. The breadth of our portfolio aims to fulfill every sector of the print market and continues to grow as our customer's needs grow. We aim to support the most progressive leaders, the maniacally detailed operators, the environmentally conscious, and the creatives that realize the impact that print can have on brand equity.

The best of inkjet & toner

Fujifilm is well known as a supplier of high quality pre-press and workflow solutions for commercial offset printing. But less well known is the fact that the company has been undergoing a radical transformation of its business. The result of this transformation is an industry-leading range of digital printing solutions.

inkjet



toner

Fujifilm's Revoria and ApeosPro ranges of toner digital presses are built on a 60 year legacy of technological excellence in toner research, development and manufacturing within the company's Business Innovation division. Fujifilm is also the world's leading supplier of piezoelectric drop-on-demand inkjet printheads and ink, with it's industry leading Samba printbar at the heart of the J Press 750HS, and wide range of modular imprinting systems.

This technology platform puts Fujifilm in the position of being able to offer the best in toner and the best in inkjet for a wide range of commercial printing applications. With an ambitious plan to launch new digital solutions, complemented by a powerful new digital workflow, we encourage you to take a fresh look at Fujifilm to see how our digital solutions can make a difference to your business.

Commercial advantage

J Press 750HS: Transforming short run print

The J Press 720S was the first B2 inkjet press to gain a foothold in this market, and was ahead of the game in terms of productivity and quality. And with over 300 J Press installations worldwide, more and more print buyers are now recognizing what you can achieve with the inkjet technologies built into this groundbreaking press. But with the steady increase in the number of short run jobs, and the introduction of the J Press 750HS, capable of printing up to 5,400 impressions per hour, more and more jobs are going to fit the sweet spot of this industry-leading press.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Voice of Customer

With the J Press 750S, I was able to take jobs off our large presses and quote jobs I wasn't able to in the past. Everything I threw at the J Press 750S came back with superior quality, less set up time and completed the job faster than I thought possible. Buying the J Press 750S was one of the best investments I've ever made."

Enrique de la Vega - CEO/Owner
NuPress

J Press 750HS:
Two presses in one

High Performance Mode:

Accelerate offset replacement
Offset print quality
Up to 5,400 sheets per hour
1200 x 600 dpi
No primer required, reducing cost
Lower ink usage for lower cost per sheet
Print most offset jobs profitably

High Quality Mode:

Differentiate your business
Better than offset print quality
Up to 3,600 sheets per hour
1200 x 1200 dpi
Uses Rapid Coagulation Primer
Wider gamut, high impact printing
For the most demanding, high quality print jobs

Characteristics common to both modes:

Accurate sheet-to-sheet registration
High up time and reliability
No pre-press or make readies
Variable data and personalisation

In High Performance mode

5,400 sheet per hour B2 digital press that delivers offset quality and press reliability but with lower ink consumption and therefore cost per sheet. This doubles the number of profitable digital print jobs you can print, simplifying and speeding up your production.

In High Quality mode

3,600 sheet per hour press that delivers print quality better and more consistent that offset, with a wider high-impact color gamut. This allows you to compete for print jobs of the absolute highest quality, setting you apart from your competition.

A truly versatile press

J Press 750HS: High Speed Versatility

The J Press 750HS is able to print on a wide range of substrates. As well as coated and uncoated offset stocks, the press can print on carton board, photo canvas and some plastic materials. As a result, the opportunity to use the J Press to diversify and open up new markets makes it an exciting proposition.

Print on standard coated & uncoated offset paper

The J Press 750HS is unlike many other digital presses in that it can use an assortment of standard offset stocks. This means, for example, that a printer can take advantage of current paper stocks, simplifying inventory and reducing costs.

Printing on canvas and plastic

Thanks to improvements in the vacuum drum and ink chemistry, the J Press 750HS can be used to print on canvas and some plastic substrates. This adds another versatile option that allows owners of the J Press to explore new applications and revenue streams.

Suitable for offset post-press enhancements

J Press printed sheets have been tested and found to be compatible with a wide range of analog and digital coating, foiling, lamination and cutting solutions. An automatic bridge is also available to connect to online coating solutions.

Full speed double-sided variable data handling

The J Press 750HS can handle variable data, with the press using a barcode system to guarantee front and back page matching. The barcode is printed in the non-image area of every sheet immediately after the paper leaves the input sheet stacker. The press reads the barcode on every sheet as it leaves the stacker and downloads the correct page information before it prints the second side.

The benefits of this capability extend beyond the obvious application of variable data personalization. Jobs can also be printed 'collated' in page order to simplify and speed up the finishing process or improve the logistics for job distribution, making the production of versioned print jobs simple and straightforward.

Perfect for packaging

Delivering exceptionally consistent, high quality output ready for finishing on carton board. The J Press 750HS is ideal for printing packaging.

The J Press can print heavier weight folding carton stock up to 24 pt. This makes it ideal to print short run packaging applications.

Adding the J Press 750HS Riser kit means an additional 11.8 in. of stock can be fed and delivered by the press without intervention. This is equivalent to an extra 1000 sheets of 300µm folding carton board compared to the standard J Press 750S, expanding the capacity for non-stop running for folding carton converters by an extra hour, or 37%.

Ultra-high quality

The J Press 750HS takes the print quality produced by a digital printing system to new heights thanks to a combination of fundamental Fujifilm technologies. The end result is stunning, vibrant colors, superb skin tones, extraordinary fine text and line detail, and incredible flat tints, all produced on standard coated or uncoated offset paper.

Color management, workflow and screening

VIVIDIA CMYK inks have been painstakingly developed to match the Samba printheads and achieve the best consistent performance on the widest range of standard offset papers with or without primer. Ink grains as small as 0.5 trillionths of a liter, invisible to the naked eye, are discharged at high speed to deliver breathtaking print quality.

Real-time closed loop quality control

Quality is enhanced through the use of a CCD sensor that makes any necessary alterations to the way the ink is discharged from the printhead in real time. The In-Line Sensor (ILS) system detects any nozzle and ink deposition inconsistencies, modifying the parameters in real time to correct deviations from the norm.

Latest generation samba printheads

Samba printheads lead the industry in terms of performance. Fabricated using precision MEMS* technology, they can achieve 1,200 x 1,200 dpi, and thanks to VersaDrop technology, the ink droplets can be reproduced in four levels of greyscale, with the effective resolution therefore much higher.

Larger gamut, ultra consistent water-based inks

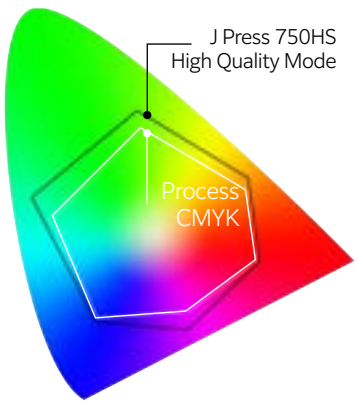
In addition, one of the key advantages of the J Press running in High Quality mode is its enhanced color gamut that can produce more vibrant print with just four CMYK inks, and reproduce more spot colors.

Registration accuracy better than offset

Quality is nothing without consistency. Because the J Press makes use of an offset paper feed mechanism, which adjusts automatically when the paper size is selected, registration accuracy and repeatability from sheet-to-sheet are superb.

Bleed-free ink coagulation technology

The natural tendency of an ink droplet is to spread when it hits the paper. In High Quality mode, the J Press applies a Rapid Coagulation Primer (RCP) right before printing to ensure uniform ink formation whatever the paper type. The primer incorporates technologies which prevent dot gain - a critical component in the formation of an ultra-high quality image.



A wide color gamut enables vibrant images to be reproduced and allows color matching to GRACoL, critical for mixed offset and digital production environments.

*Micro Electro Mechanical System

Exceptional environmental performance

There are a number of significant environmental benefits with the J Press 750HS.

The J Press significantly reduces paper waste by minimizing over-runs and make readies. On some short-run jobs on older traditional sheet-fed presses, the number of make ready sheets can represent a significant percentage of the total run, 25% or more in some cases. This problem is eliminated with the J Press as the make ready waste is virtually zero.

Elimination of plate production, water and waste

The J Press eliminates all the elements involved in the production of plates. This includes the plates, platesetters, processors and associated chemistry, water and waste. Each one of these elements of a plate production system has a significant carbon footprint in terms of its life cycle, from design, manufacture, transport and use to eventual disposal.

Reduction of hazardous pressroom consumables

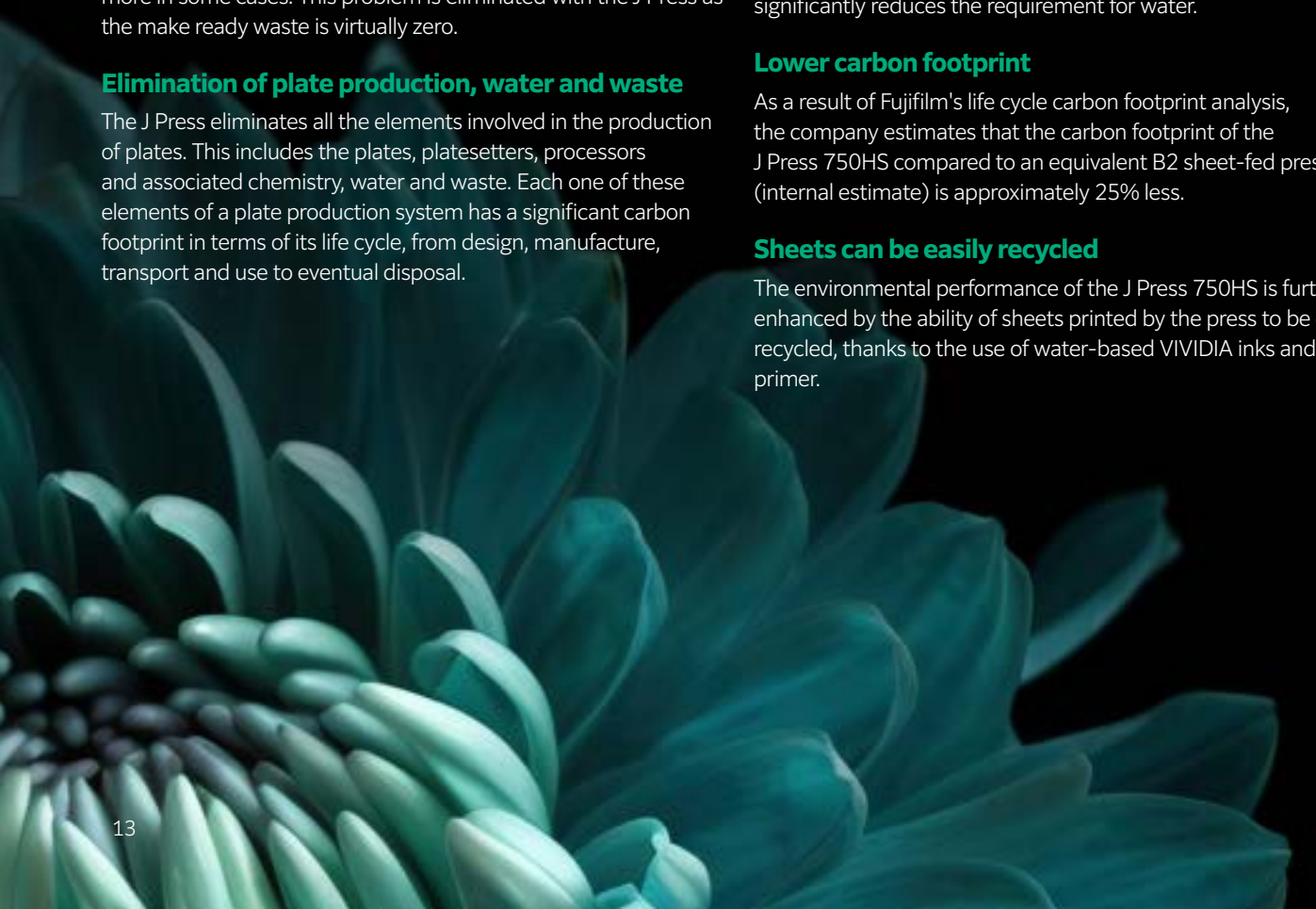
The J Press also removes the need for a number of the pressroom consumables used on a typical offset press, for example founts, sprays and potentially harmful VOC washes, and of course significantly reduces the requirement for water.

Lower carbon footprint

As a result of Fujifilm's life cycle carbon footprint analysis, the company estimates that the carbon footprint of the J Press 750HS compared to an equivalent B2 sheet-fed press (internal estimate) is approximately 25% less.

Sheets can be easily recycled

The environmental performance of the J Press 750HS is further enhanced by the ability of sheets printed by the press to be easily recycled, thanks to the use of water-based VIVIDIA inks and primer.



Technical specifications

J Press 750HS	
Printing	
Printheads	Next generation Samba printheads
Colors	4 color, CMYK, extended gamut
Resolution	1200 x 1200 dpi (High Quality) or 1,200 x 600 dpi (High Performance mode), VersaDrop technology with 4 level greyscale
Productivity	Up to 3,600 impressions per hour (High Quality) or 5,400 impressions per hour (High Performance mode), static and variable jobs
Workflow	XMF Workflow V6.x or later, or a third party workflow with XMF Processor
Variable data capability	Yes, thanks to barcode system and high capacity data transfer
Substrate	
Maximum sheet size	29.5" x 23"
Printable area	28.85" x 22.65"
Weight	60 lb text to 14 pt or up to 24 pt when heavyweight jacket is used
Type	Standard offset coated and uncoated paper Canvas Heavier duty folding carton board Some plastics
Physical	
Dimensions	24 ft (L) x 7.7ft (W) x 6.72 ft (H)* *The height when cover is open is 7.5 ft
Space requirements	33ft x 17 ft x 10 ft including space for ancillary equipment
Required weight bearing load	More than 143 lbs. per square foot
Power requirements	285A/200 - 285VAC
Operating environment	68 – 82.4°C, 40 – 60% RH
Inks, Primer and Wash	
Inks, Primer, Wash	VIVIDIA HS CMYK inks (High Performance Model) VIVIDIA CMYK inks (Standard Model) Rapid Coagulation Primer (RCP) Nozzle cleaning wash
Shelf life	2 years under recommended warehouse conditions
Packaging	Inks, RCP and Wash in 10 liter packs

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Find more information at:
print-us.fujifilm.com

Fujifilm Graphic Communication Division

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