



# Change Is Coming To Flexible Packaging

***J Press***  
**FP790**

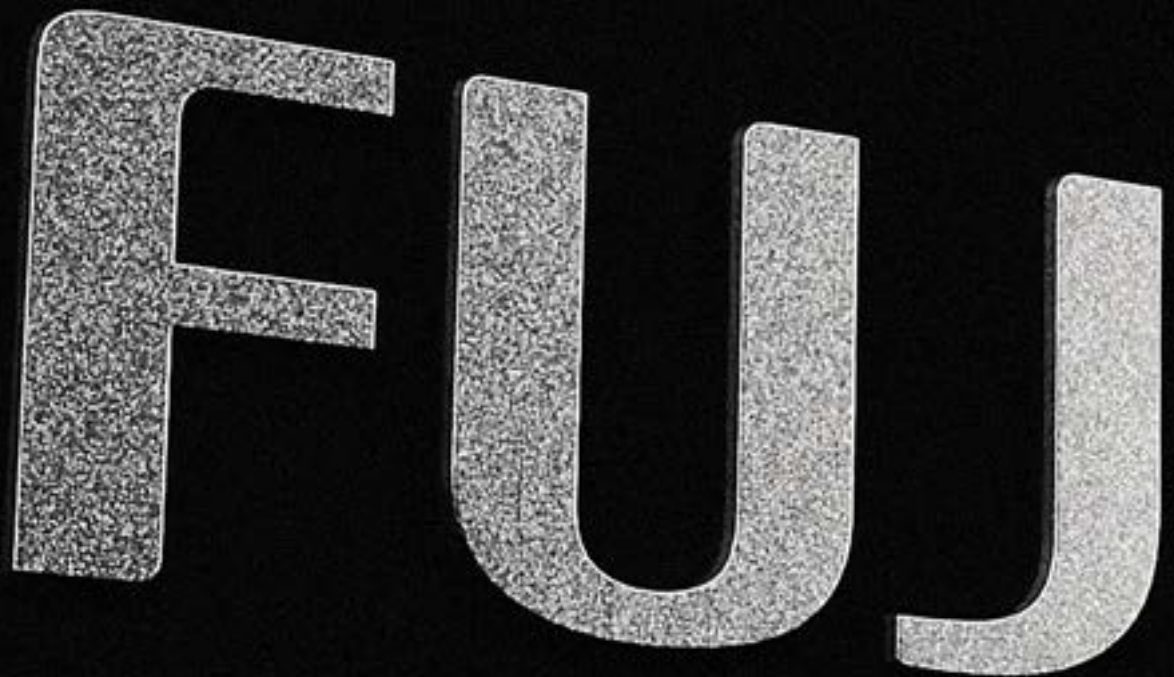


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**Product Guide**

# 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.

The letters 'FUJ' are rendered in a large, bold, sans-serif font. Each letter has a distinct, grainy or stippled texture, giving them a three-dimensional, metallic appearance. They are set against a solid black background.

### 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.



# J Press FP790: Digital inkjet press for flexible packaging

In 2011, Fujifilm launched the J Press range of inkjet digital production presses to the global commercial printing market. Since that time, Fujifilm has installed more than 300 presses worldwide, with the press having achieved industry acclaim for setting a new standard in print quality, superseding even offset.

Fujifilm is now applying these industry-leading technologies and know-how to flexible packaging. Using its unique expertise in world-class inkjet system development, Fujifilm is now able to offer packaging converters an exceptional opportunity with its new J Press FP790 digital platform.

The J Press FP790 has been designed to help printers and converters adapt to changing market dynamics that are driving shorter print runs and product life cycles, faster delivery times and more sustainable production, whilst also adhering to the regulatory requirements of flexible packaging.

**The J Press FP790 digital press could be considered to be three presses in one, able to:**

- **Print digitally, with all the benefits of digital production**
- **Print mainstream flexo jobs**
- **Print rotogravure quality jobs**



# Mainstream



# Suitable for mainstream flexible packaging

The J Press FP790 digital press has been designed to be suitable for mainstream flexible packaging applications, thanks to a number of key features. Firstly, the J Press FP790 digital press produces ultra-high print quality, wide gamut print similar to the J Press 750HS, making it possible to convert analog flexo and rotogravure jobs to digital.

The press can also run at high productivity levels, with a print speed of 164 feet per minute irrespective of the ink colors, and very high uptime contributing to the overall performance. Critically, the J Press FP790 is also able to fit into existing production processes with no other capital investments, along with being a much more sustainable solution than its analog counterparts.

## High productivity

The maximum substrate width is 31 inches with a productivity of 164 feet per minute, no matter the number of colors. The high machine uptime and ability to change printing jobs and design adjustments within a matter of minutes contribute to the overall improvement of production efficiency of the entire factory.

## Wide color gamut and ultra-high quality

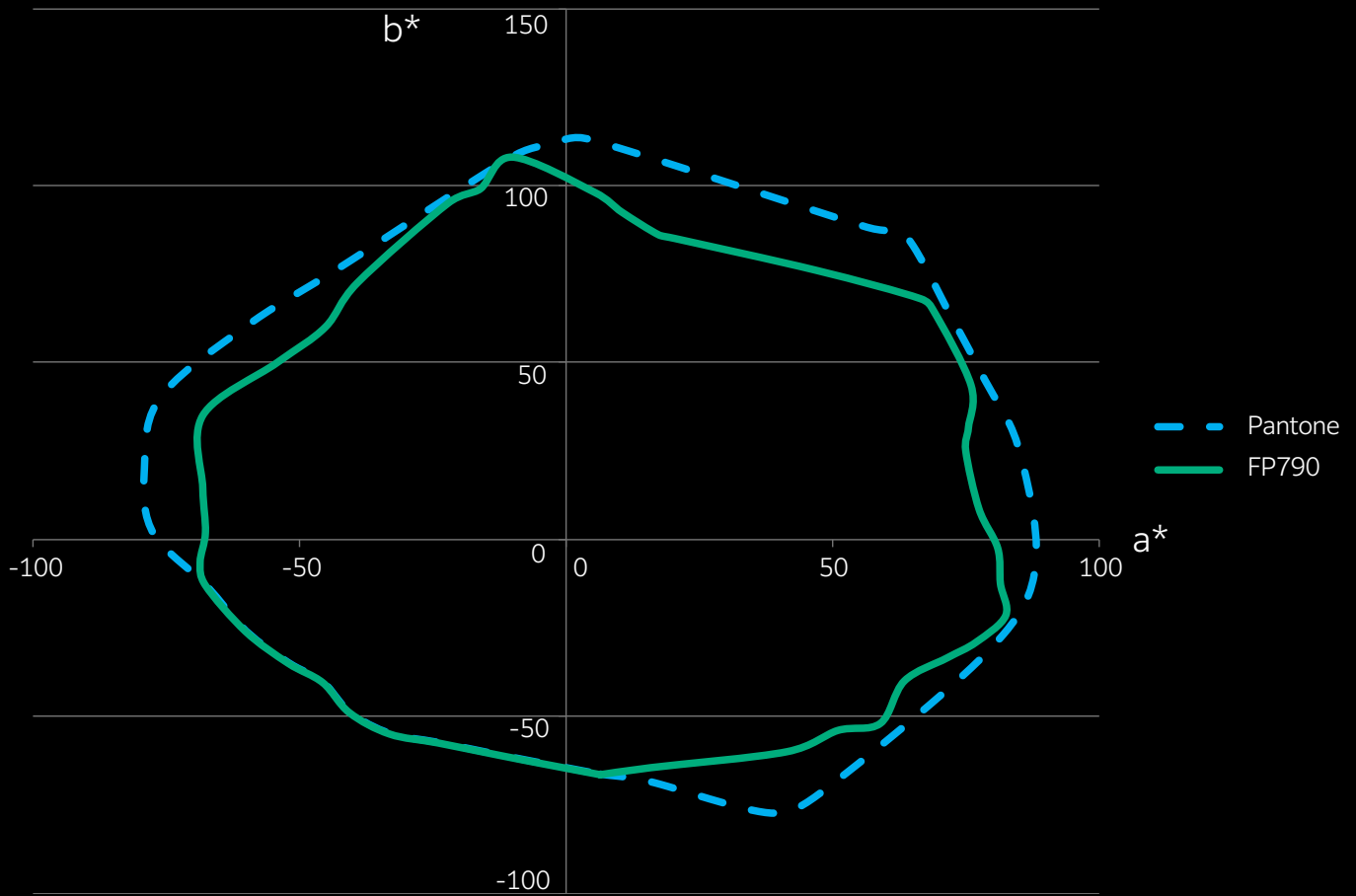
Using 1200 X 1200 dpi resolutions with CMYK inks, the J Press FP790 can achieve more than 90% of the Pantone® color gamut, while also using two white ink channels for delivering high white opacity, all achieved with unprecedented color stability. The wide color gamut allows converters to achieve special brand and spot color matching with no need for additional special inks.

## A more sustainable print process

Fujifilm employs environmentally friendly water-based primers and inkjet technologies, which meet or exceed all regulatory requirements for flexible packaging printing. The J Press FP790 is also able to minimize waste, reduce the number of consumables associated with traditional analog production, and totally eliminate all elements of the plate-making process.



## Comparison of the color gamut of J Press FP790



Displayed  $L^*a^*b^*$  space in  $a^*b^*$  plane



**Water-based priming**

Treatment process to ensure ink adhesion for different substrates

**Digital print unit (cmyk) and drying**

**High resolution**

New 1200 X 1200 dpi printing heads enable highest quality printing. Ability to do heavy coverage and small type.

**Vibrant color**

Color density is much higher than existing flexo and digital. Able to hit 90.5% of Pantone gamut with CMYK

**Automatic register**

Controlled within +/- .006 in.

**Unwinder**

**Inline corona**

Creates surface tension of the substrate for better wettability, adhesion and print quality.

**Digital print unit (ww) and drying**

High opacity digital white. Two digital white inkjet channels hitting 55-58% opacity.



# J Press FP790 at a glance



## Image inspection

Inspection technology  
in order to ensure print  
quality, capture defects &  
reduce waste

# Fits existing production processes

With the challenging demands of the flexible packaging market, particularly the short turnaround times and regulatory requirements, Fujifilm has carried out extensive testing of printed output from the J Press FP790 with various laminating, slitting and finishing processes, to ensure customers of the press are in the best possible position to maximize the production opportunities from day one.

Fujifilm extensively tested Henkel's renowned portfolio of laminating adhesives to ensure compatibility with the J Press FP790 ink as well as verify adhesion properties and lamination performance in post-press production, to guarantee the highest quality output. Given the excellent results and positive outcomes from these rigorous tests, Henkel's solvent-free laminating adhesives are Fujifilm's recommended solution for use with the J Press FP790.

Fujifilm also successfully tested Nordmeccanica's Simplex range of two-layer laminating machines for solvent-less adhesives. The environmental benefits of the J Press FP790, combined with Henkel's solvent-free adhesives and Nordmeccanica's solvent-less lamination technology, delivers a truly sustainable production solution. In addition, it will enable packaging converters to remain compliant with the increasingly stringent environmental regulations that are now commonplace throughout the industry.

By collaborating with renowned and leading manufacturers of pre-press and post-press technologies, Fujifilm can clearly demonstrate that its new J Press FP790 is fully compatible and integrates effortlessly into existing production environments offering a 'plug and play' digital solution that delivers the highest quality finished packaging with minimal testing, training or setup.

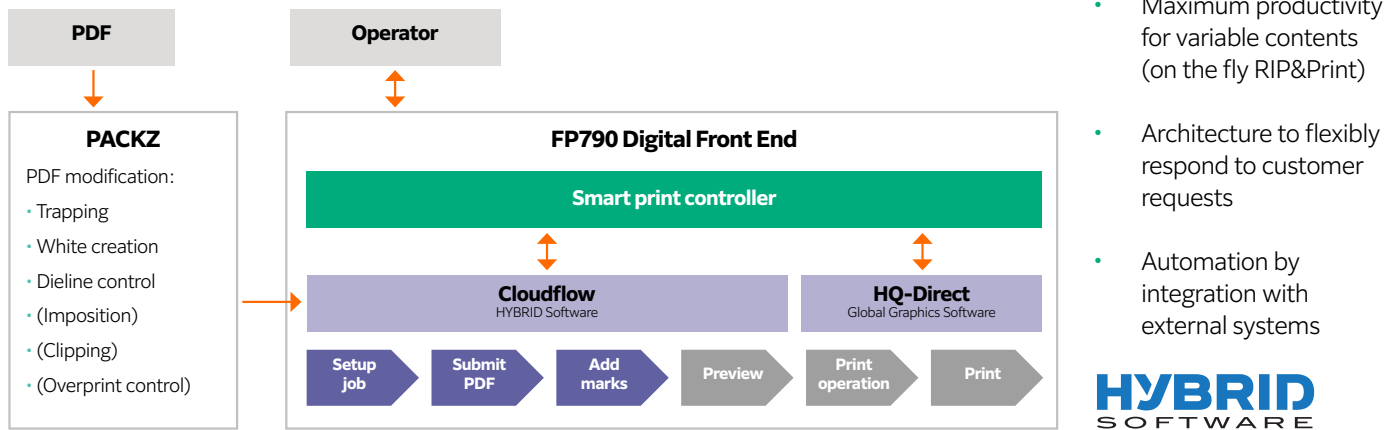


## XMF Packaging powered by HYBRID Software

Fujifilm's J Press FP790 will feature a unique smart Digital Front End (DFE) and unified workflow solution developed specifically by HYBRID Software to optimize the productivity and output of Fujifilm's press.

This new XMF Packaging DFE is the first of its kind to be developed by a software company for use in the packaging market, and is a result of a close working partnership between Fujifilm's R&D team and HYBRID's specialist software developers.

Based on proven technology, the web-based, open architecture production workflow offers fully automated pre-press functionality to ensure the J Press FP790 press offers accelerated turnaround times, maximum productivity and reduced operating costs. In addition, its modular configuration allows for greater workflow expansion and upstream customization to cater for specific user requirements.



## Technical specifications

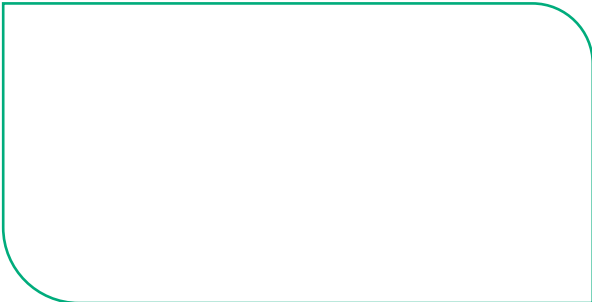
J Press FP790	
<b>Printing method</b>	Water-based inkjet, single pass
<b>Print speed</b>	164 ft/min - regardless of the number of colors
<b>Image resolution</b>	1,200dpi x 1,200dpi
<b>Maximum image size</b>	28.9 in
<b>Substrate width</b>	20.5 in – 31 in.
<b>Substrate thickness</b>	12 to 40 microns
<b>Substrate material</b>	PET, BOPP and most common media's (With preliminary test)
<b>Main application</b>	Flexible packaging for food and non-food, reverse print
<b>Un-winder</b>	Max roll diameter: 23.6 in. Max roll weight: 440.9 lbs.
<b>Re-winder</b>	Max roll diameter: 23.6 in. Max roll weight: 440.9 lbs.
<b>Dimensions</b>	472 (L) x 98.4 (W) x 94.5 (H) in.
<b>Weight</b>	36,376 lbs.
<b>Minimum floor space</b>	644.5 in. x 317 in. incl. auxiliary equipment and work-space
<b>Power-supply voltage</b>	200V and 400V
<b>Ink</b>	Water-based pigmented ink, 5 colors FP790-Cyan, Magenta, Yellow, Black and White
<b>Pre-conditioner</b>	Water-based coating liquid



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Find more information at:  
[print-us.fujifilm.com](http://print-us.fujifilm.com)



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