



Jet Press FP790

PRODUCT BROCHURE

JetPress FP790



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Digital inkjet press for flexible packaging

In 2011, Fujifilm launched the Jet 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 Jet Press FP790 digital platform.

The Jet 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 whilst also adhering to the regulatory requirements of flexible packaging.

The Jet 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. Mastered.



Suitable for mainstream flexible packaging

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

The press can also run at high productivity levels, with a print speed of 50 m/min irrespective of the ink colours, and very high uptime contributing to the overall performance. Critically, the Jet Press FP790 is also able to fit into existing production processes with no other capital investments.

High productivity

The maximum substrate width is 790mm (31 inches) with a productivity of 50 m/min (164 feet per minute), no matter the number of colours. 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 colour gamut and ultra-high quality

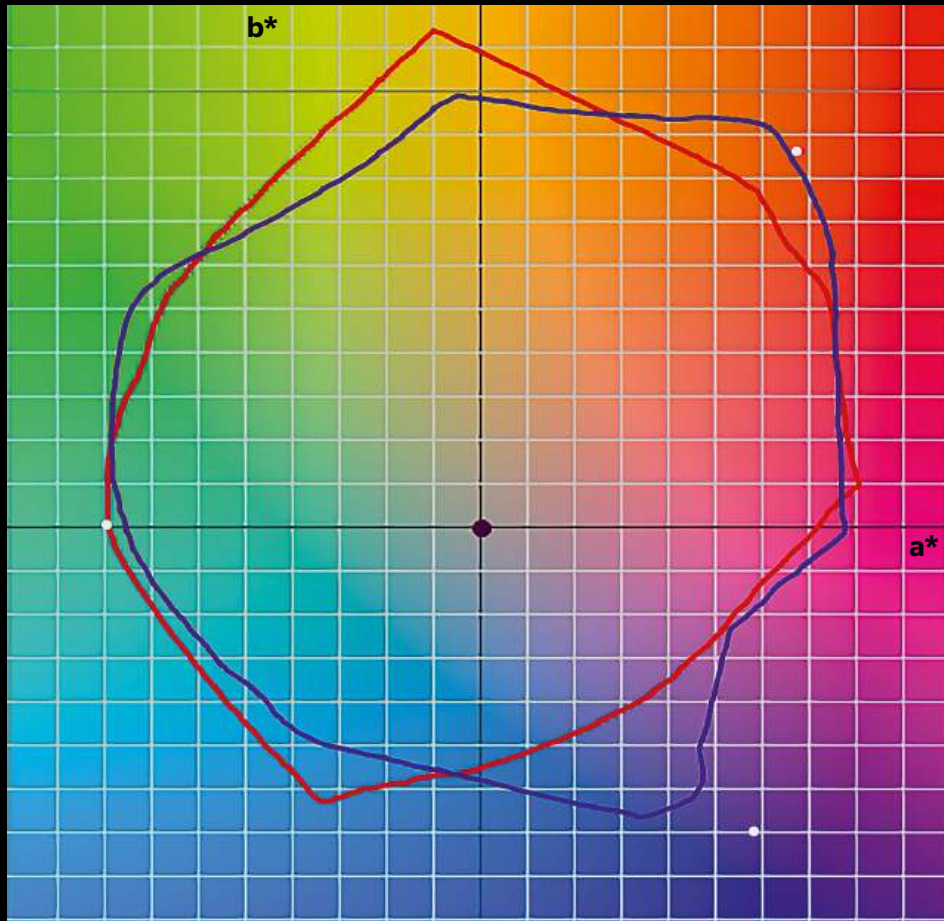
Using 1200 X 1200 dpi resolutions with CMYK inks, the Jet Press FP790 can achieve more than 90% of the Pantone® colour gamut, while also using two white ink channels for delivering high white opacity, all achieved with unprecedented colour stability. The wide colour gamut allows converters to achieve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

A simpler print process producing minimal waste

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



Comparison of the colour gamut of Jet Press FP790



Red: Fujifilm

Blue: Fogra 55

White Dots: Orange 21,
Green, Violet

Relative colorimetric, 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 colour

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

Automatic register

Controlled within $\pm 0.15\text{mm}$

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.

Jet Press FP790 at a glance



Image inspection

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

Eco Flexibles pioneers with the Jet Press FP790

Eco Flexibles, based in Northampton, UK, has installed two Jet Press FP790 presses to meet the growing demand for fast turnaround flexible packaging.

Eco Flexibles has become an early investor in the Jet Press FP790; the first outside of Japan. Two presses are installed at the company's new state-of-the-art 40,000 sq. ft factory in Northampton. Working closely with retailers, brand owners, and food manufacturers, Eco Flexibles develops recyclable mono-polymer flexible and paper-based packaging solutions that provide equivalent or improved performance over incumbent mixed plastic designs.

"Unlike conventional digital presses that rely on toners and electrographic inks, the Jet Press FP790 uses water-based inks to ensure superior performance while further driving down carbon impact. This is a transformative moment for the flexible packaging industry in the UK, and for us as a business," stated Matt Francklow, Director, Eco Flexibles. "Our mission is to make recyclable mono-polymer and paper packaging more accessible for brand owners, and with this multi-million pound investment, we're providing our customers with digital press technology with all

the benefits that attracts – very short run and variable data printing, fast job turnarounds and outstanding performance that more than rivals traditional analogue print techniques. We are setting a new benchmark in quality and sustainability."

Matt adds: "There's a good reason that Fujifilm is such an established and respected name in print, and it's why we feel so comfortable investing in the first machine of its kind in Europe. We are in a sustainability-centric market where 'good enough' is no longer good enough for brands; we must be constantly pushing harder for lower carbon emissions and higher quality. Eco Flexibles has been a pioneer in many ways, and with our latest investment, we're further driving home the message that sustainable flexible packaging doesn't need to be a concession or come with sacrifices. With a partner like Eco Flexibles in your corner, and technology such as the Jet Press FP790, you can truly have it all."

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This is a transformative moment for the flexible packaging industry in the UK, and for us as a business.”

**Matt Francklow, Director,
Eco Flexibles**



The Jet Press FP790 delivers for Delo

One year on from installation, the German flexo packaging giant has transformed its offering to customers with the Jet Press FP790.

Based in northern Germany, Delo is one of Europe's leading manufacturers of flexible packaging, operating one of the continent's largest integrated production sites, with 19 flexographic presses on the premises.

In early 2025, the company became just the second business outside of Japan to invest in Fujifilm's flagship digital flexo press for flexible packaging – the Jet Press FP790. "We'd been looking at digital flexo press options for years," says Ralf Wilkens, Managing Director at Delo. "But nothing we'd seen met the speed and performance criteria we required. In the Jet Press FP790, we were finally confident we'd found a solution that met our threshold for productivity and quality, and provided a true value-add solution for our customers."

One year on from installation, the benefits of the investment have been significant. "We can now easily handle smaller volume jobs that would have been inefficient, costly, or often completely impossible on our flexo presses. This is hugely valuable for new product

launches or trials, and helps us to help our customers to get their products to market faster."

Wilkens continues: "Reduced waste and massive sustainability gains have been another benefit of the investment, as traditional flexo short runs generate disproportionately high levels of waste. With a digital production option, we can reduce waste substantially on short and medium run work as well as enjoying faster job changeovers. Furthermore, the water based inks used by the Jet Press FP790 provide an additional sustainability benefit."

Wilkens also has high praise for the quality of the work the press produces. "We're now seeing very consistent high quality results, with both our customers and end users seeing no quality difference compared to with flexo and, in some cases, even a slight quality improvement. We're delivering a premium quality product to our customers with a level a flexibility far beyond anything we could have offered before."



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 Jet Press FP790 with various laminating, slitting and finishing processes, to ensure customers of the press are in the best possible position to maximise the production opportunities from day one.

Fujifilm extensively tested Henkel's renowned portfolio of laminating adhesives to ensure compatibility with the Jet 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 Jet Press FP790.

Fujifilm also successfully tested Nordmeccanica's Simplex range of two-layer laminating machines for solvent-less adhesives. 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 Jet 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.

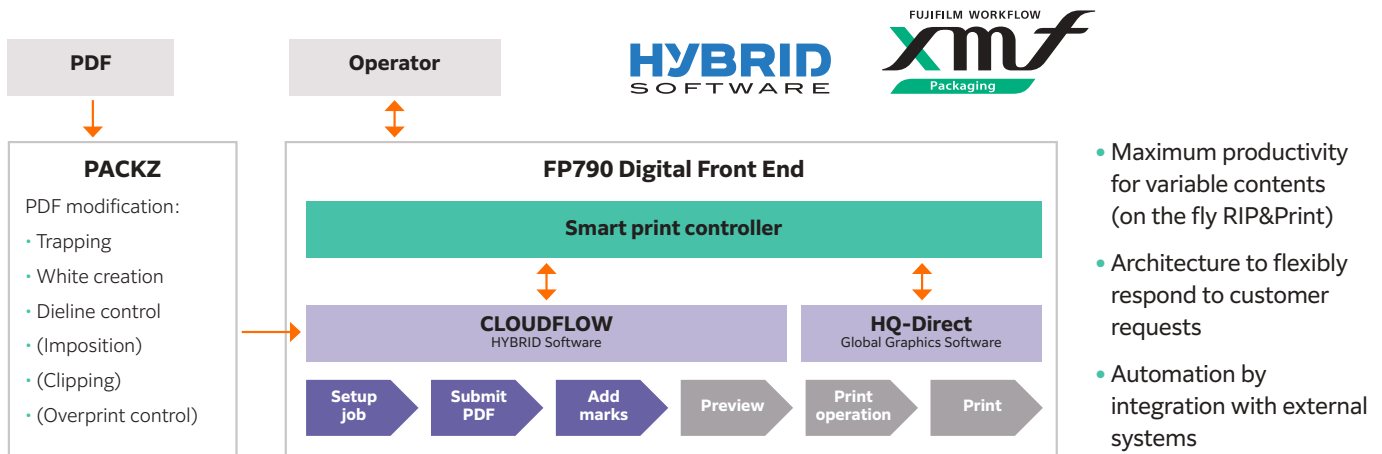


XMF Packaging

Fujifilm's Jet Press FP790 features a unique smart Digital Front End (DFE) called XMF Packaging. This unified workflow solution was developed specifically by HYBRID Software to optimise the productivity and output of Fujifilm's press.

XMF Packaging 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 Jet 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 customisation to cater for specific user requirements.



Technical specifications

Jet Press FP790	
Printing method	Water-based inkjet, single pass
Print speed	50m/min 164 fpm - regardless of the number of colours
Image resolution	1,200dpi x 1,200dpi
Maximum image size	733mm, 28.9in
Substrate width	520mm – 790mm, 20.5in – 31in
Substrate thickness	10 to 130 microns ^{*1}
Substrate material	PET, BOPP, Paper, LabelStock, BOPE, MDOPE ^{*2}
Main application	Flexible packaging for food and non-food, reverse print
Un-winder	Max roll diameter: 600mm, Max roll weight: 200kg
Re-winder	Max roll diameter: 600mm, Max roll weight: 200kg
Dimensions	Width: 12,000mm, Height: 2,400mm, Depth: 2,500mm
Weight	16,500kg
Minimum floor space	16,090mm x 8,060mm incl. auxiliary equipment and work-space
Power-supply voltage	200V and 400V
Ink	Water-based pigmented ink, 5 colours: Cyan, Magenta, Yellow, Black and White
Pre-conditioner	Water-based coating liquid

^{*1} 10 to 40 microns for film substrates

^{*2} Substrate characteristics are dependent on supplier/brand/region, so printing performance isn't guaranteed for every substrate and material type. Prior testing of print performance using the actual substrate and image is required.



Please contact your local Fujifilm partner or visit:
fujifilmprint.eu



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