FUJIFILM

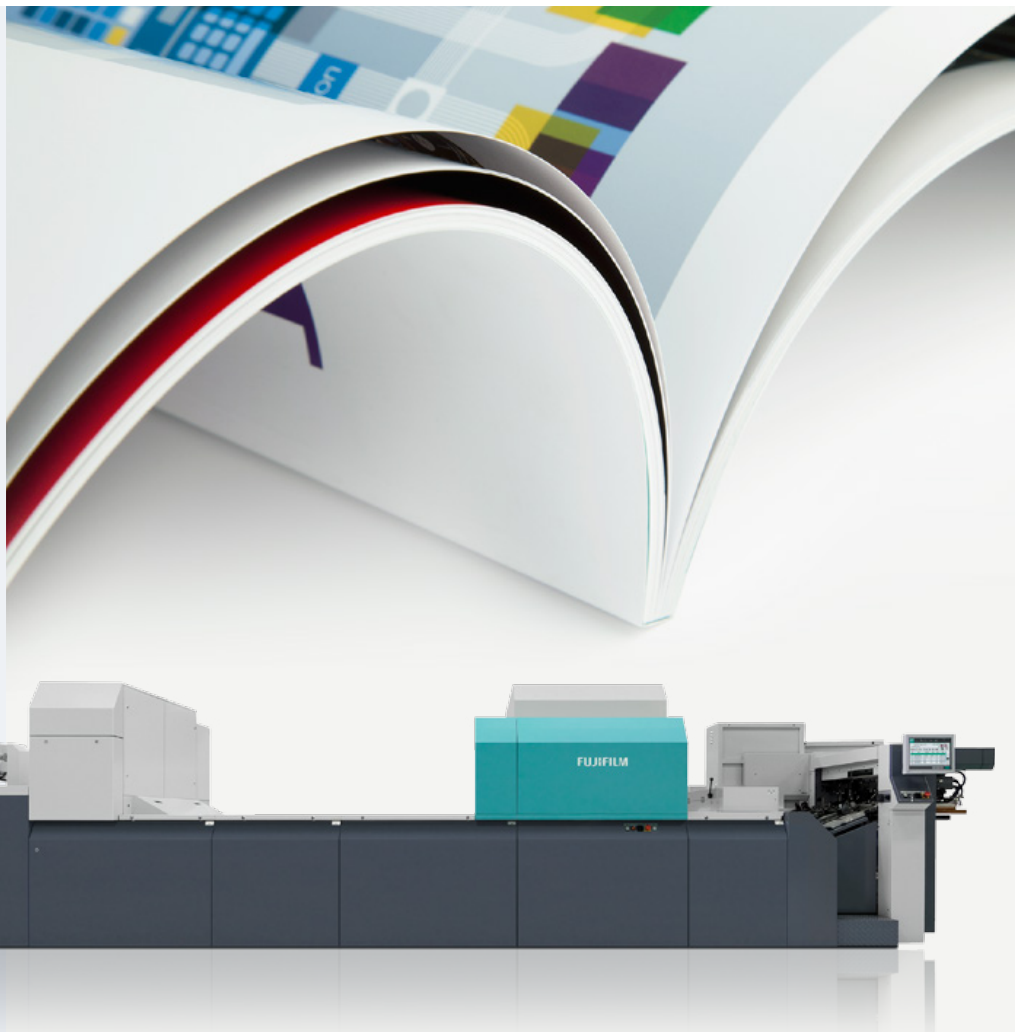
Jet Press 720S: Overview

Powerful second generation B2 sheet-fed digital inkjet press

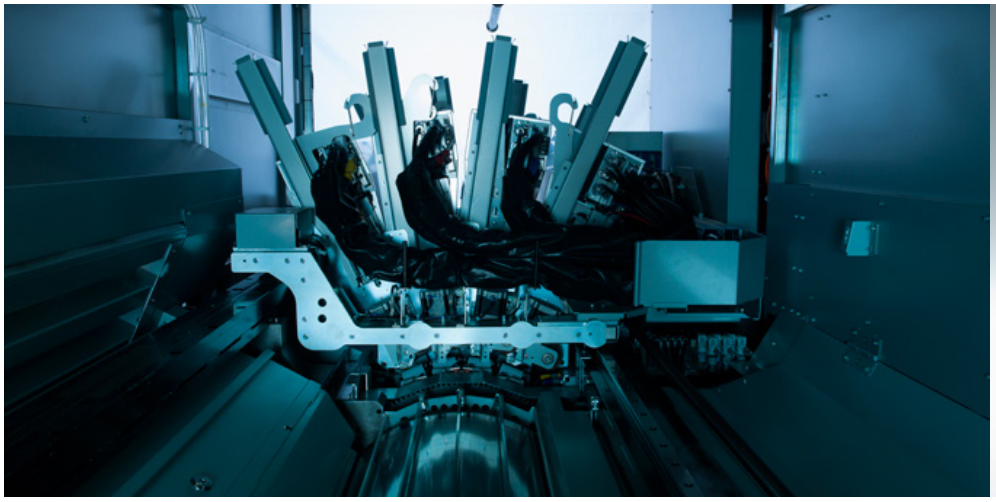
The Jet Press 720S is a second generation ultra-high quality, 4 colour, B2 sheet-fed digital inkjet press with a production speed of up to 2,700 B2 sheets per hour. With benchmark reliability and up-time, the Jet Press 720S sets new standards for digital print production.

Key features

- Ultra-high image quality
- B2 sheet size
- Single pass inkjet technology
- Wide gamut water-based inks
- Industry leading 1200 x 1200 dpi SAMBA™ printheads
- Automatic Nozzle Control
- Offset paper handling system
- Colour managed workflow and screening technologies
- Double-sided variable data handling
- Exceptional environmental performance



Jet Press 720S



SAMBA™ modular printheads are the powerful heart of the Jet Press 720S.

Ready to transform your business

The efficient way to produce short run print

The most efficient way to produce short run print is to send the PDF to the press and print. This is how the Jet Press 720S operates. There are no plates, platesetters or processors to maintain, no make readies, waste sheets, and virtually no pressroom consumables. The Jet Press 720S is about as efficient as you can get. Just send the PDF and print.

A wide range of application possibilities

The B2 format size of the Jet Press 720S means it is possible to print a wider range of applications digitally on most standard offset stocks. Its integrated Rapid Coagulation Primer system coats the sheet with an ultra-thin invisible film, providing a consistent environment for the coagulation of ink droplets, guaranteeing the highest print quality. Many new applications can be printed digitally that were previously impossible.

Outstanding image quality and consistency

The Jet Press 720S 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 colours, superb skin tones, extraordinary fine text and line detail, and incredible flat tints, all produced on standard offset paper.

Exceptional environmental performance

Significant environmental benefits with the Jet Press 720S include a reduction in raw materials, pressroom consumables and paper waste, along with the complete elimination of the plate production process. All these benefits mean that the Jet Press 720S has a lower carbon footprint than an equivalent offset production system.

The new standard in print quality

Colour managed workflow and screening
XMF workflow controls imposition, workflow automation, and all aspects of colour management. Fujifilm FM screening algorithms eliminate moiré and produce ultra-smooth tints.

1200 x 1200 dpi four level greyscale inkjet heads
The Jet Press 720S features a new generation of printhead technology, with each B2 width print bar built up of 17 individually replaceable modules, each with 2,048 nozzles. The SAMBA™ print bar features VersaDrop™ technology: the size and shape of each ink drop is precisely controlled, resulting in unbelievably fine lines and text.

Registration accuracy better than offset
Jet Press 720S makes use of an offset paper feed, adjusting automatically for each paper size. This removes issues with current digital printing systems, where the tolerance from sheet-to-sheet can limit job flexibility. With the Jet Press 720S, the registration and repeatability from sheet–to-sheet are second to none.

Larger colour gamut inks
VIVIDIA high performance CMYK ink colours achieve the best performance on the widest range of standard offset papers. Ink grains as small as 0.5 trillionths of a litre, are discharged at high speed to deliver breath-taking print quality.

Bleed-free ink technology
To counter the natural tendency of an ink droplet to spread when it hits the paper the Jet Press 720S applies a Rapid Coagulation Primer (RCP) to the sheet. The RCP features unique “anti-curling” and “rapid coagulation ink” technologies preventing paper curl and dot gain - a critical component of a high quality image.

Real-time closed-loop image compensation
A CCD sensor scans every sheet and makes alterations to the ink discharged from the printhead in real time. The proprietary In-Line Sensor (ILS) system detects nozzle and ink deposition inconsistencies, modifying the nozzle map in real time to correct deviations from the norm.

High performance digital print

Double-sided variable data handling
Jet Press 720S prints a barcode in the non-image area of every sheet, the press reads the barcode from the first side of every sheet and downloads the correct page information before it prints the second, guaranteeing front and back page matching.

Integration into existing B2 print businesses
Jet Press 720S B2 format fits into existing sheet-fed pressrooms without the need for any alterations in terms of paper handling and finishing. A printer can take advantage of current B2 paper stocks, reducing stockholding and costs.

Finishing equipment
Jet Press 720S sheets can be treated like offset sheets, with many special finishes possible.

Environmental performance

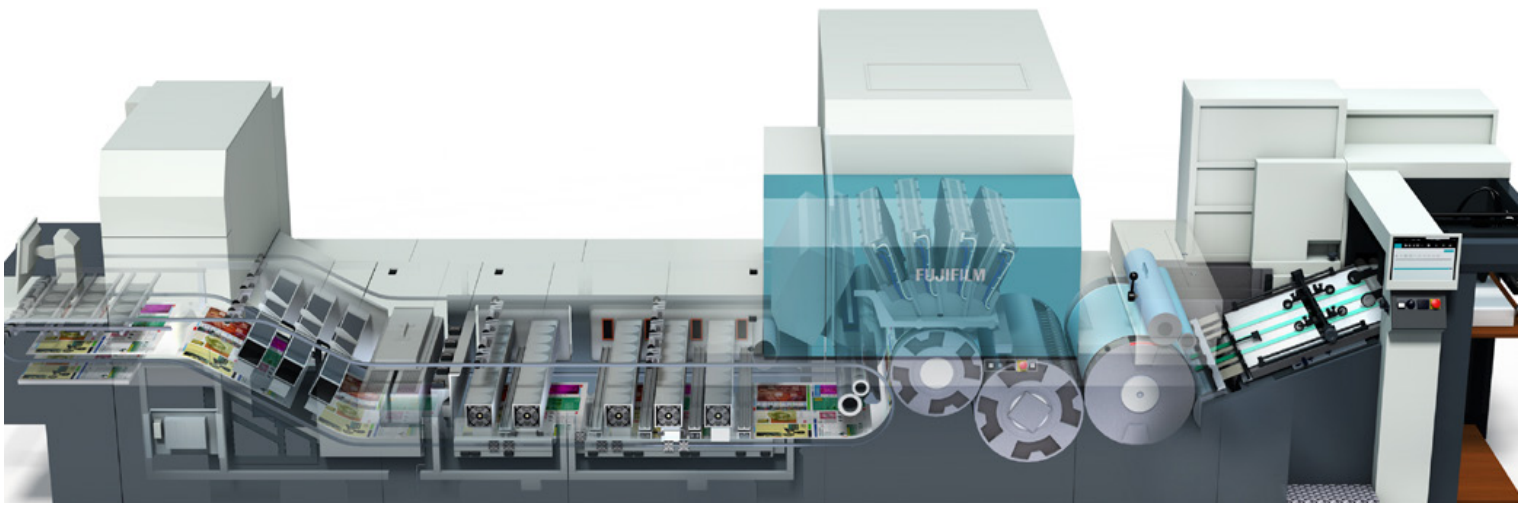
Reduce raw materials and paper waste
Minimising over-runs is a key benefit of the Jet Press 720S, make ready time is virtually zero.

Eliminate plate production, water and alcohol
Jet Press 720S eliminates the use of plates, platesetters, processors and associated chemistry, water and waste. Plate production systems have significant carbon footprints relating to design, manufacture, transport, use and eventual disposal.

Reduce hazardous pressroom consumables
Jet Press 720S also removes founts, sprays and potentially harmful VOC washes used on a typical offset press, and significantly reduces the requirement for water.

Lower carbon footprint than typical offset
Fujifilm carries out life cycle analysis for all the products it manufactures, and we estimate that the carbon footprint of the Jet Press 720S compared to an equivalent B2 sheet-fed press is approximately 25% less.

Sheets are easily recycled
Trials carried out by the International Association of the Deinking Industry (INGEDE) on Jet Press 720S indicate levels of deinking on a par with offset inks, with 98 out of 100 points, a milestone for an inkjet sheet.



Technical specification

Jet Press 720S	
Printing	
Printing-head	FUJIFILM Dimatix SAMBA™ print bars (x4)
Colours	4 colour, CMYK printing
Resolution	1200 x 1200 dpi, 4 level greyscale
Productivity	Up to 2700 B2 sheets per hour (static and variable jobs)
Workflow	XMF v5.5 or later or a third party workflow with XMF Processor
Varable data capability	Yes, thanks to barcode system and high capacity data transfer
Substrate	
Sheet size	545 x 394 mm to 750 x 532 mm
Printable area	Non printable area is: 13 mm from gripper edge side 2 mm from tail edge side 2 mm from side edges
Thickness	Standard: 0.105 mm – 0.34 mm (thickness), 127 g – 300 g When configured for heavier stocks: 0.2 mm – 0.6 mm (thickness)
Type	Coated paper (matt, silk or gloss) and specified uncoated
Inks, Primer and Wash	
Inks, Primer, Wash	VIVIDIA CMYK inks Rapid Coagulation Primer (RCP) Nozzle cleaning wash
Ink light fastness	The inks have been tested for light fastness to the blue wool scale, achieving a very good blue wool step 6 rating with respect to ISO 12040
Shelf life	2 years under recommended warehouse conditions
Packaging	Inks, RCP and Wash in 10 litre packs
Physical	
Dimensions	8019 mm (w) x 2653 mm (d) x 2050 mm (h)* * The height when cover is open is 2293 mm
Space requirements	12 m x 5 m x 3 m including transformer and workflow RIP
Required weight bearing load	More than 2.2 tonnes/square metre
Power requirements	Jet Press 720S: 3-phase 400 VAC 55KW (transformer is part of machine package)
Operating environment	20 – 28°C, 40 – 60% RH

For further information:

Please contact your local Fujifilm partner.

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