



Jet Press 720

PRODUCT BROCHURE

Groundbreaking 4 colour B2 sheet-fed digital inkjet press

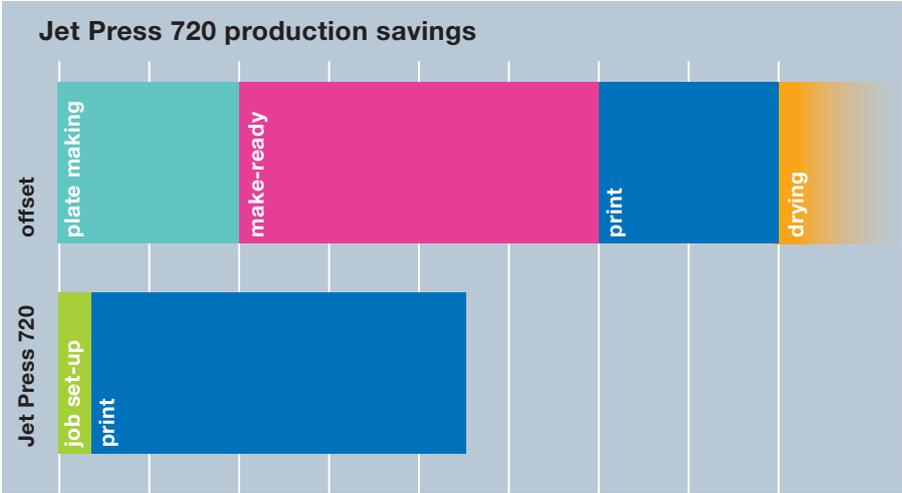


New business opportunities

The Jet Press 720 is set to open up new opportunities in the market for short-run, general purpose commercial print. With a B2 format size and a production speed of up to 1.3 seconds per B2 sheet, this revolutionary new machine is faster and more flexible than any other digital sheet-fed press on the market.

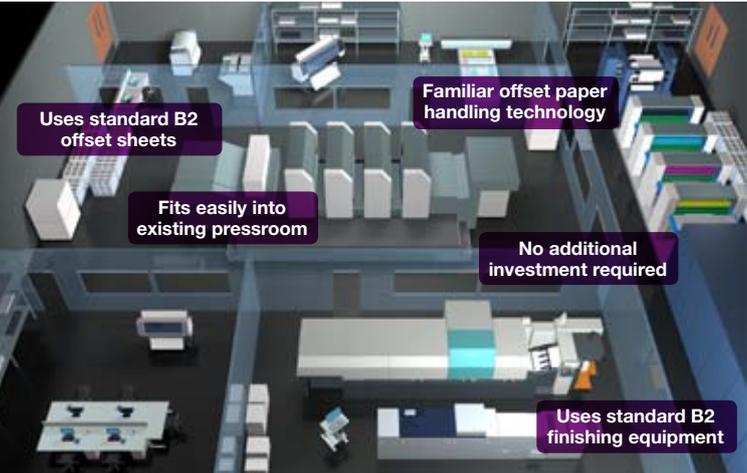
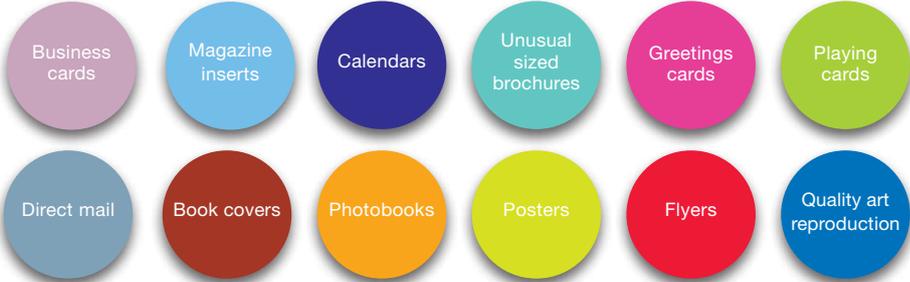
Perfect for short-run print

The 'sweet-spot' for the Jet Press 720 is short-run jobs where the run lengths are too long for pay-per-click SRA3 digital presses to be economical but where traditional offset presses struggle because of the longer pre-press, make-ready and drying times. This 'sweet-spot' is typically from run lengths of around a few hundred to a few thousand. This is where a significant number of jobs are currently being printed, and where the volume growth is likely to take place in the future.



A new flexible format size

The format size of the Jet Press 720 will also create new opportunities for digital print, with applications such as gate-fold brochures, folders, and more unusual page sizes all being possible down to run lengths of one, all finished with existing B2 finishing equipment.



Flexibility to fit into existing pressrooms

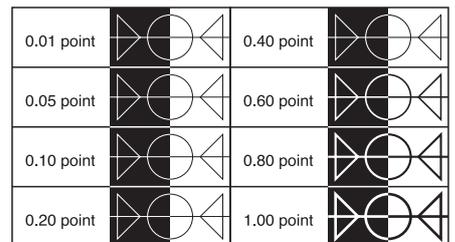
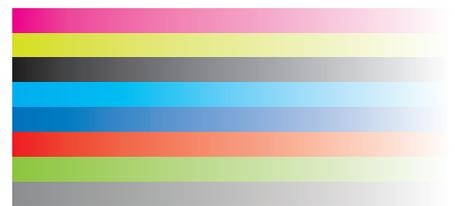
The Jet Press 720 has been designed to make digital print production much more flexible. Firstly, as the machine is B2 format, it fits into existing sheet-fed pressrooms without the need for any alterations in terms of paper handling and finishing.

Secondly, most standard B2 offset paper can be used, removing the requirement to use specialised (and expensive) digital paper.

Finally, once imaged the B2 sheet can be treated like an offset sheet, dropping into existing finishing equipment with many special finishes possible. As a result, digital print can be treated like offset print more than ever before.

Extraordinary quality

The Jet Press 720 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, incredible flat tints, all produced on standard offset paper.

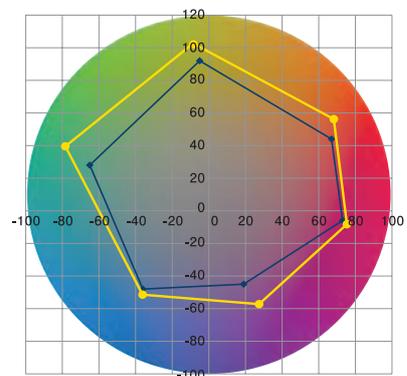


High performance, water-based inkjet ink

Fujifilm scientists made use of the company's advanced chemical technologies to develop a new water-based ink called VIVIDIA. The result is a high performance range of four CMYK ink colours that have each been painstakingly developed to match the performance criteria of the heads and 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 from the print-head nozzle onto the paper. Thanks to the application of the primer, ink movement instantly stops, enabling the sharpest dot formation. These ultra-fine dots, invisible to the naked eye, are responsible for the breathtaking quality possible with the Jet Press 720.

Evaluation of colour reproduction

Jet Press 720
Process CMYK ink



Environmental benefits

There are a number of significant environmental benefits with the Jet Press 720. These include a reduction in raw materials, hazardous pressroom consumables and paper waste, along with the complete elimination of the plate production process. All these benefits mean that the Jet Press 720 has an estimated 25% lower carbon footprint (internal estimate) than an equivalent traditional B2 sheet-fed press.

Sheets can be easily recycled

The results of trials carried out by the International Association of the Deinking Industry (INGEDE) on sheets printed by the Jet Press 720 indicate levels of deinking on a par with offset inks, with 98 out of a possible 100 points, results which represent a milestone in the ability to remove the ink from an inkjet sheet.

“We do these kinds of trials on a regular basis but we were surprised with the levels of deinking that were possible with the Jet Press 720 samples. These types of results are in the same league as those achieved with the best offset inks but we’ve never before seen such a great result with inkjet print.”

Axel Fischer, INGEDE



How it works

The Jet Press 720 takes the best of offset technology, in terms of robust and highly accurate paper handling as the B2 sheet passes through the press, and adds state-of-the-art inkjet deposition technology to produce stunning high quality print.



Output

The final printed sheet emerges in the delivery area in the same way as a traditional offset press



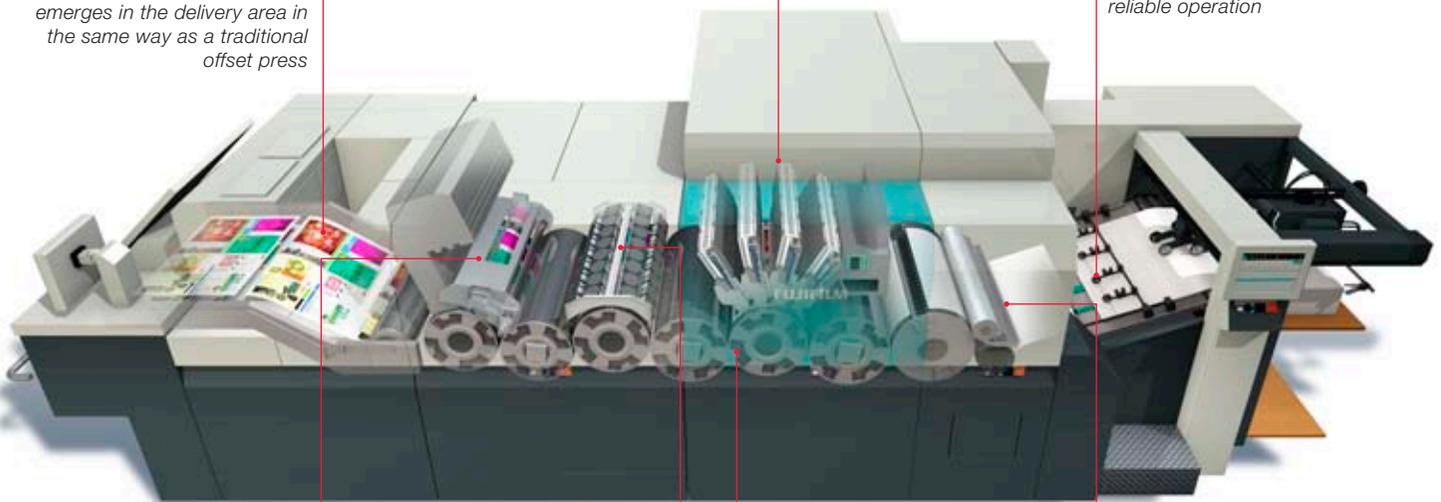
SAMBA™ inkjet heads

Once the RCP has been applied, the paper is fed onto the imaging cylinder where it is held by grippers and a vacuum, and four SAMBA™ print bars deposit the CMYK inks in a single pass



Paper feed

Traditional sheet-fed paper feed mechanism ensures high registration accuracy and reliable operation



Sheet scanning

Once dry, every sheet is scanned by the In-Line Sensor (ILS) with the system making any necessary alterations in real time



Sheet drying

Drying after printing is achieved by a combination of heat and air to ensure that the sheet emerges from the press ready for finishing



Paper transport

Paper transport through the press is achieved through traditional sheet-fed rollers and paper grippers for high accuracy and reliability

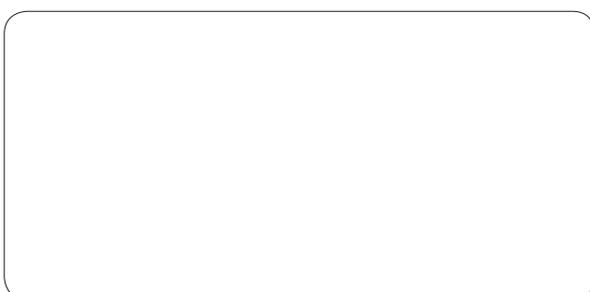


Paper priming

The primer unit applies an ultra-thin film Rapid Coagulation Primer onto the paper via an anilox roller mechanism. The reaction of the primer and the water-based ink produces incredibly sharp dots and vibrant images on standard B2 coated paper

Jet Press 720 specifications	
Printing	
Printing-head	FUJIFILM Dimatix SAMBA™ print bars (x4)
Resolution	1,200 x 1,200 dpi, 4 level greyscale
Productivity	Up to 1.3 seconds per B2 sheet
Workflow	XMF V4.1 or later or a third party workflow with XMF Processor
Substrate	
Sheet size	542 x 382 mm to 750 x 530 mm Note: Supports 4 fixed sizes only (eg. 640 x 450, 700 x 500, 720 x 520, 650 x 480)
Printable area	Non printable area is: 13 mm from gripper edge side 2 mm from tail edge side 2 mm from side edges
Thickness	0.105 mm – 0.34 mm (thickness), 127 g – 300 g Note: If the substrate is over 260 g and / or 0.2 mm support long grain only. Support mode depends on the stiffness of the substrate
Type	Coated paper (matt or silk) and specified uncoated
Inks, Primer and Wash	
Inks, Primer, Wash	Jet Press CMYK inks Rapid Coagulation Primer (RCP) Nozzle cleaning wash
Shelf life	2 years under recommended warehouse conditions
Packaging	Inks, RCP and Wash in 10 litre packs
Physical	
Dimensions	7,181 mm (width), 3,692 mm (depth), 2,045 mm (height*) * The height when cover open is 2,293 mm
Space requirements	9,000 mm x 5,100 mm including transformer and workflow RIP
Required weight bearing load	More than 2 tonnes/square meter
Power requirements	Jet Press 720: 3-phase 400 VAC 55KW (transformer is part of machine package)
Operating environment	20 – 30°C, 40 – 60% RH

Please contact your local Fujifilm partner or visit www.powertosucceed.eu/contacts



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