DJet: Revolutionizing Double-Sided Printing

Digital Information remains at the forefront of cutting edge technology with the all new DJet. The DJet is an innovative new printing system for the economical production of short runs featuring Epson quality, as well as an ultra-fast inkjet print *solution for the output of double-sided imposition proofs. The DJet is a smart investment which yields significant returns.*

With the launch of the all new DJet, Digital Information introduces the printing and graphic arts industry to the next generation of their reliable, renowned, double-sided printing solution. The DJet system is based on Epson's new, high-performance, Energy Star rated, SureColor SC-T series printers and can cover both four-up and eight-up formats with paper widths of 23″ (580 mm), 35″ (890 mm), and 43″ (1090 mm), as well as all offset formats up to class 6 (100 x 140 cm). With five cartridge chambers to facilitate a fast and auto-matic change between Photo Black and Matte Black, the DJet with SureColor SC-T series printers is efficient and environmentally friendly.

Profitable Production System

Compared with its predecessors, the DJet takes double-sided proofing and digital print solutions to the next level with considerably accelerated print performance. Depending on the preselected resolution, printing speeds can be as much as three times faster than earlier iterations for jobs up to 300 A4 sheets per hour printed on both sides. In addition to producing imposition proofs, the DJet also serves as an efficient production system for short runs, suitable for the output of a wide variety of products including brochures, leaflets, books, menus, point of sale papers, etc. The DJet works with the four CMYK process colors and easily meets all targets defined by common print standards.
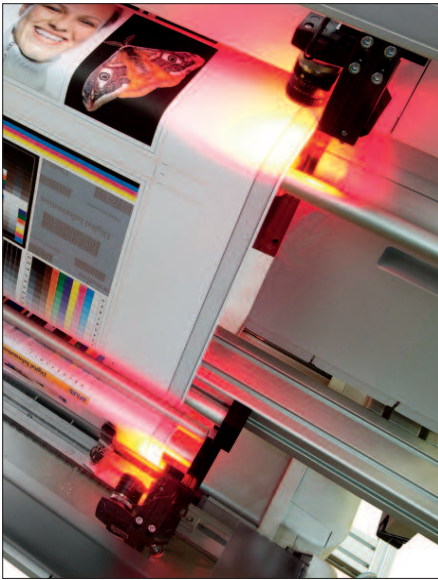
Simple and Safe

With a minimum of mechanical parts, the DJet concept provides maximum production safety and operational simplicity. The two printers, which are engineered in sequence and offset by 180°, allow for the direct output of double-sided print jobs in just a single pass through the system. The need for operator intervention to feed sheets or turn the media over has been eliminated.

The new DJet is capable, for example, of printing up to 40 double-sided printing blocks of 70 x 100 cm (8-up) per hour.

From Consumer Market to Pro

With the launch of DJet, Digital Information is ahead of the curve on a phenomenon that has been hitting the graphics industry in a big way since the 1990s. Technologies that were originally developed for a consumer market are replacing specialized, very expensive machines at a fraction of the cost. This trend began with the introduction of the PC and user-friendly software which led to the erosion of the established typesetting and image process systems. Soon thereafter, the trend hit proofing systems, which were replaced by cost-effective Inkjet systems whose technology was first tried and true in the consumer arena. Taking the curve a step further, as Inkjet technology has become increasingly more sophisticated, Inkjet printers used for proofing have been gaining in the area of print production speed and are now adequate to be used as production printing systems. The DJet sets the bar high for a revolutionary, low-cost digital press that functions as an imposition proofing system, as well.

Monitored by video cameras, the DJet prints with high-precision front-to-back registration.

Equipped with the latest electronic/software innovations, the DJet has minimal mechanical parts

Off-the-shelf video cameras are used to monitor production progress utilizing a code printed alongside the sheets. Throughout the print run, the system registers the current position of the printed paper. This enables high-precision, front-to-back registration on the uncut paper web. With the DJet, status messages regarding printer readiness, filling level of the ink cartridges, production progress, end of paper roll, etc. are reported in real-time.

Inkjet Quality, no primer coating
The environmentally-friendly Epson UltraChrome XD inks are water-based and are distinguishable by their large color space, their deep shades of black, and their outstanding resistance to fading. These favorable characteristics are paired with their reliability on a wide variety of print substrates. Hence, it is possible to use some uncoated FSC certified papers with a grammage of 90 gms to 250 gms per square meter without having to pre-treat them with a primer.

Simple Installation
Important functions for controlling the system have been integrated directly by Epson into the firmware of the SureColor printers used with the DJet solution. Mechanical and electronic modifications and adaptations by Digital Information are no longer necessary. According to the «Plug and Play» principle, every DJet is ready for production immediately upon installation.

The DJet
- Unrivaled, double-sided print system for the 4-up or 8-up formats
- Economical, short, print runs in Epson quality
- High performance, up to 300 double-sided A4 sheets per hour
- Use of FSC certified papers, no pre-treatment with primers required
- Eco-friendly, pigmented, water based inks with maximum resistance to fading
- Latest generation SureColor printers with Energy Star rating
- Instant «Plug and Play» setup
- Low maintenance costs

Technical Specifications DJet 300, 500 and 700

Supported Resolutions
360 x 720, 720 x 720, 1440 x 1440 DPI

Printing Method
Inkjet, drop-on-demand, piezo technology

Printers Used
2 x Epson SureColor SC-T 3000 up to 22"/56 cm print span or
SureColor SC-T 5000 up to 34"/86 cm print span or
SureColor SC-T 7000 up to 42"/106 cm print span.

Printer Connection
Integrated Ethernet and USB port

Operating System
Windows 7 Professional or Ultimate

Job Sizes
DJet 300: maximum print span 22"/56 cm
DJet 500: maximum print span 34"/86 cm
DJet 700: maximum print span 42"/106 cm

Production Speed
Double-sided sheets per hour, 360 x 720 DPI standard quality:
DJet 300: up to 40 sheets, 4up/50 x 70 cm
DJet 700: up to 40 sheets, 8up/70 x 100 cm

Repeatability
+/- 1 mm

PC Port
Ethernet and USB

Paper
Various paper types: 23"/58 cm max. width for DJet 300, 35"/89 cm max. width for DJet 500, 43"/109 cm max. width for DJet 700
Tecco «DJet DUO Ecoprint», exclusively from www.tecco.de

Recommended Ambient Conditions
Temperature 73°F/23°C
40–50% relative humidity, zero condensation