

Dainippon Screen to Exhibit the Advanced Truepress JetSX at IPEX 2010 — Equipped with Advanced Mechanisms Including Duplex Printing Capability and Supporting a Wide Range of Needs —

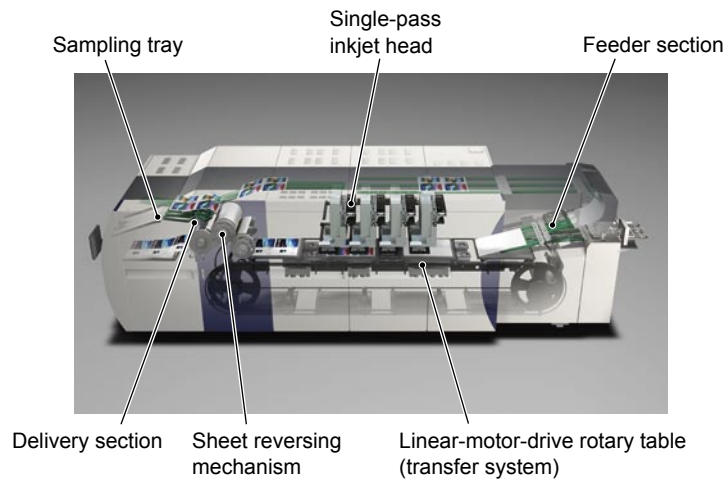
The Media and Precision Technology Company (President: Kyohei Fujisawa) of Dainippon Screen Mfg. Co., Ltd. (Headquarters: Kyoto, Japan) will exhibit the Truepress JetSX,* a full-color B2 variable sheet-fed printing system newly equipped with duplex printing capability, at the International Printing Exhibition (IPEX) 2010 to be held in Birmingham, UK from May 18 (Tuesday) to May 25 (Tuesday), 2010. Screen will introduce solutions, accompanied by printed samples, to the rapidly expanding needs of the commercial printing field, including short-run printing, variable printing, and quick turnaround, as well as high quality.

The Truepress JetSX was unveiled at drupa 2008 as the world's first full-color B2 variable sheet-fed printing system. The latest Truepress JetSX is equipped with new advancements, such as duplex printing capability. The system incorporates a duplex printing mechanism as standard equipment and also inherits conventional features such as high quality approaching offset printing, a B2 output capability that supports A4 4-up imposition and A2 calendars, and variable element overprinting for offset printed materials. The Truepress JetSX provides exceptional quick start-up and production flexibility, which is essential for handling variable printing and short-run printing. This enables wide-ranging support for diverse, high-resolution applications that require duplex printing, such as catalogs, calendars, photo books, posters, greeting cards, and yearbooks. In addition, as the system can print on offset printing paper without precoating, it is possible to achieve finishes that accentuate the texture of the paper.

At IPEX 2010, Screen will use photo book samples to introduce A4 landscape spread page printing, which is possible with the B2-compatible Truepress JetSX. In addition, visitors will be able to assess duplex printing of multilingual calendars, requiring high resolution and variability, in a demonstration of multiple-language imposition output.

Screen will use the Truepress JetSX with its newly incorporated functions to provide solutions that allow short-run and variable printing, which are difficult with conventional offset methods. This will be accomplished while maintaining the quality levels required by the commercial printing market. Through these efforts, Screen will vigorously support the creation of new value-added businesses in the printing industry.

* Exhibited as a provisional product.



Internal structure of Truepress JetSX

Please download the photo from
<http://www.screen.co.jp/press/nr-photo/indexE.html>

Features of the Truepress JetSX

Adoption of newly developed, original ink

The system uses newly developed Truepress ink for the Truepress JetSX. It can print on paper without precoating and achieve finishes that accentuate the texture of the paper.

Incorporation of a duplex printing mechanism

Screen has developed an original reversing mechanism that enables duplex printing inside the main unit. This allows up to B2-size, full-color variable printing even on both sides in a single pass.

Achievement of a minimum droplet size of 2 picoliters and a maximum resolution of 1,440 dpi

The Truepress JetSX uses a grayscale head with a minimum droplet size of 2 picoliters. This has produced a maximum resolution of 1,440 dpi, enabling high image quality approaching offset printing.

Incorporation of specialized FM screening

The Truepress JetSX is equipped with specialized FM screening, which was developed specifically for the system. This enables exceptional color and smooth tone reproduction.

High-speed, high-accuracy transfer using a linear motor

Paper can be transferred with high speed and accuracy thanks to the linear-motor-drive rotary table.

High-accuracy front to back registration

Screen has adopted the same lateral sheet positioning method for the Truepress JetSX as offset presses. The printing position on the paper is controlled with high accuracy.

Incorporation of unique inspection functions

A scanner for monitoring print quality is built into the main unit. In combination with the Truepress JetSX's specialized management software, this provides stable, high-quality printing.

Spot inspection capability

The output destination can be changed to a specialized single-sheet sampling tray even during continuous printing. This allows spot inspection to be conducted safely during printing.

Features of newly developed and installed EQUIOS

Screen has quickly equipped the Truepress JetSX with EQUIOS, which is currently under development as a universal workflow that will enable the integration of CtP and POD. EQUIOS realizes the maximum performance of the printing device. In addition, Screen has adopted Adobe® PDF Print Engine® 2 to provide support for variable data along with the latest production environments.

Enhanced imposition function

B2 paper can be used without any loss, thanks to the transfer of imposition knowhow developed with CtP workflows. The Truepress JetSX is equipped with a digital collation function that controls the output order of data in advance, decreasing the load during postprocessing.

Incorporation of high-level color management functions

The Truepress JetSX is equipped with CMS knowhow developed in prepress, CMS processing that capitalizes on the features of Screen's original high color gamut inks, and a function for high-accuracy conversion of spot colors to substitution colors. This enables particularly high-quality printing with the system.

Performance improvement with distributed processing

Distributed processing delivers maximum engine performance even with full-color variable printing, which is complex and results in system load. It also supports load balancing for the RIP computation section.

Support for linkage between processes

The Truepress JetSX is based on JDF, defined by CIP4, and supports Web2Print and postpress equipment from other companies. It enables linkage between processes including other companies' systems.

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