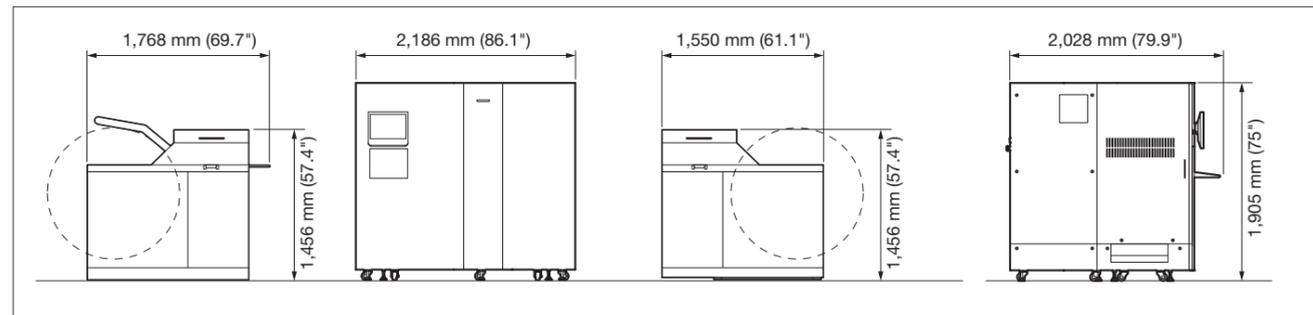


Dimensions



Truepress Jet520EX Monochrome Advanced specifications

Printing method	Piezo single-pass printing, four tones per drop
RIP	EQUIOS
Ink	Water-based pigment inks, water-based dye inks
Resolution	Maximum 720 x 720 dpi
Product configurations	Simplex, Dual Engine Duplex
Printing speed (under SCREEN's conditions)	520Z EX Advanced Mono: Maximum 128 m (419.94')/min 520S EX Advanced Mono: Maximum 100 m (328.08')/min
Paper width	165 to 520 mm (6.5" to 20.47")
Printing width	150 to 506 mm (5.9" to 19.92")
Dimensions(W x D x H)	2,186 x 1,766 mm [2,028 including operation panel] x 1,905 mm [printer unit]
Weight	1,766 kg (3,894 lb) [Simplex]
Power source	Printer: Three phase 200 V, 25 A Single phase 200 V, 13 A Single phase 200 V, 2 A Unwinder unit/Rewinder unit: Single phase 200 V, 17 A Controller: Single phase 200 V, 25 A
Operating environment	Temperature: 18 to 24°C (no sudden temperature changes) Relative humidity: 40 to 60% (no condensation)

The Truepress Jet520EX Monochrome Advanced that uses water-based dye inks can be converted to print in color.
Please consult your SCREEN representative for details.

It is possible to upgrade from the current Truepress Jet520EX Monochrome model to the Truepress Jet 520EX Monochrome Advanced.
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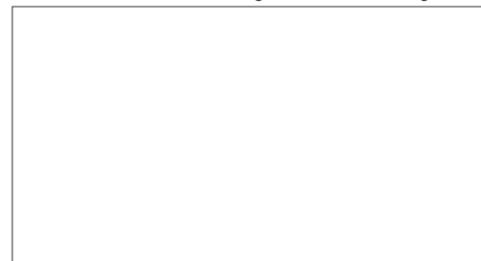
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• This brochure was made using SPEKTA 2 screening.



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SCREEN



Truepress Jet520EX
Monochrome

ADVANCED

Variable Printing System

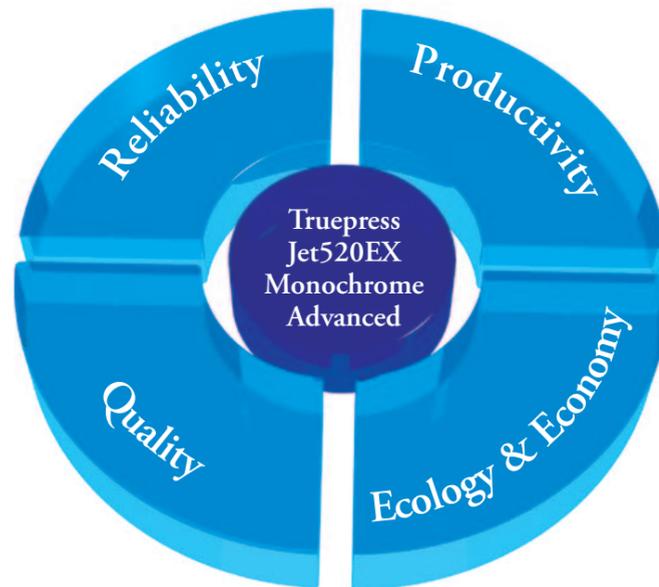
Practical solution for the monochrome printing market



Targeting the growing need for diversified, small lot printing to create new business

The new Truepress Jet520EX Monochrome Advanced concentrates the core functions required for monochrome printing in a single compact unit that also features a two-fold increase in physical resolution and specialized functions for book printing. It combines various features that precisely meet both the rising need for diversified and small lot production centered around on-demand book production, as well as customer requirements for lower costs and faster turnaround.

This versatile system also delivers industry-leading quality thanks to SCREEN's proprietary inkjet technologies. In addition to improving the efficiency and performance of existing operations, its smooth integration with postpress devices opens up unlimited potential for on-demand book printing and other fields.



Outstanding print quality that supports book production

The Truepress Jet520EX Monochrome Advanced features grayscale printing of minimum 3 picoliters and proprietary screening technology, enabling high printing quality. This system also offers rapid throughput of up to 128 meters (419.94 feet) per minute (comparable to 1,720 A4 pages per minute*), making it a high-spec inkjet system capable of satisfying all requirements. As a monochrome printer, the Truepress Jet520EX Monochrome Advanced enhances the quality of text and barcode output and enables superb expression of the gradations in photos.

* When using a dual engine duplex configuration. Preliminary calculation for 2-up duplex printing.

EQUIOS linked workflows lead the digital printing era

EQUIOS provides straightforward usage regardless of the operator's own experience and specialized skills. It offers high-speed processing using the latest RIP core, practical and easy operation linked to paper information and simplified imposition based on in-depth prepress know-how.



Gentle on paper

The Truepress Jet520 series prints with small ink droplets, enabling the use of low-temperature drying that is gentle on paper. In addition, proprietary transfer technology minimizes the load on the paper and allows printing on types other than specialized inkjet paper, such as thin or fine grades. This wider range of applicable paper types far exceeds other inkjet printers and expands potential business areas.

Gentle on people

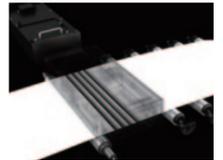
• Easy operation

All daily required operations, such as the specification of print jobs and log control as well as the creation of different print settings, can be performed centrally on a touch type panel. A design approach that prioritizes ease of use has allowed the creation of an operation environment that is both simple and easy to understand.



• Easy maintenance

To facilitate stable printing, scanning technology developed over many years has been introduced for a quality control scanner. This device imports a test chart and performs an inspection to locate inkjet printheads that require correction and cleaning.



Gentle on the environment

The Truepress Jet520EX Monochrome Advanced delivers industry-leading electricity savings. This system offers an ecological design not seen in other high-speed inkjet printers.

Selectable inline processing

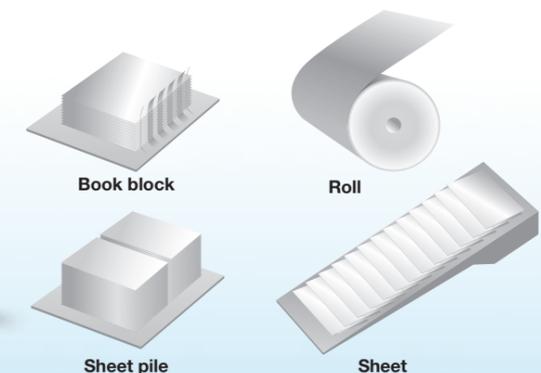
The Truepress Jet520EX Monochrome Advanced has been carefully designed to interface with postpress processes. In addition to roll to roll printing, a wide variety of inline finishing options are available as options.

• Inline processing

Marginal punching, horizontal/vertical perforation, slit processing, file punching, book processing.

• Finishing format

Roll, signature, sheet, sheet pile, book block.

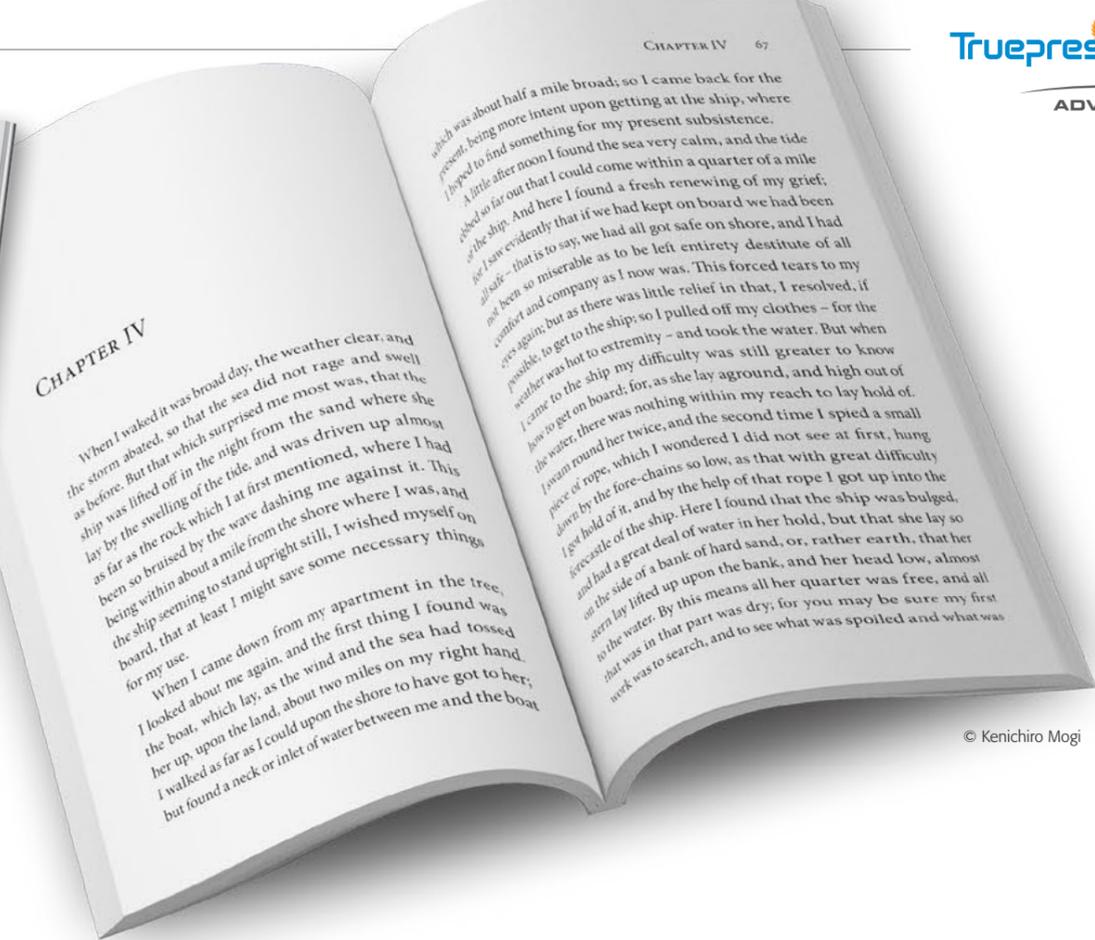


On-demand book business

- Books/comics
- Manuals
- Study materials/texts
- Further editions/reprints
- Other



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Potential for inkjet to open up the on-demand book business

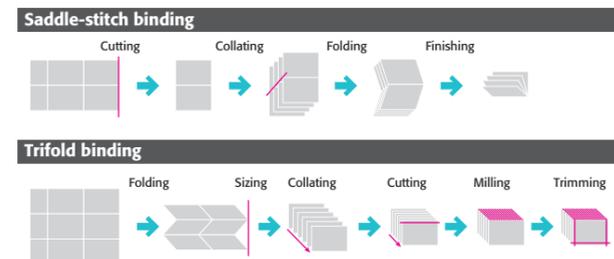
The Truepress Jet520EX Monochrome Advanced offers both postpress processing capabilities and storage performance equal to offset printing, as well as the flexibility to print single copies. Thanks to its maximum resolution of 720 dpi, it is able to faithfully reproduce even finely detailed text and also offers significantly improved linking with both pre and postpress devices.

Despite the great potential offered by on-demand book printing, this field has remained consistently difficult to enter. The Truepress Jet520EX Monochrome Advanced now provides the key to establishing a successful business in this demanding area.

Further improvements to the specialized functions required for book printing

• Optimal imposition whatever the binding method

Linked with EQUIOS, the Truepress Jet520EX Monochrome Advanced is equipped to handle a multitude of impositions for book binding specifications including saddle stitching, and perfect binding from a single paper roll. In addition, it also provides easy layout functions for accessory items such as the crop marks and barcodes required for postpress processing. The Truepress Jet520EX Monochrome Advanced is a full support system for high-quality on-demand book production requiring rapid turnaround.



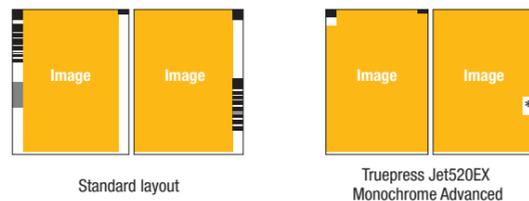
• Optimized printing of outline text

The Truepress Jet520EX Monochrome Advanced features a text choke function that combines high-resolution RIP plus anti-aliasing technologies. This function even adjusts the thickness of outline text to ensure it retains the same sharpness and quality.



• Greater freedom in positioning of accessories

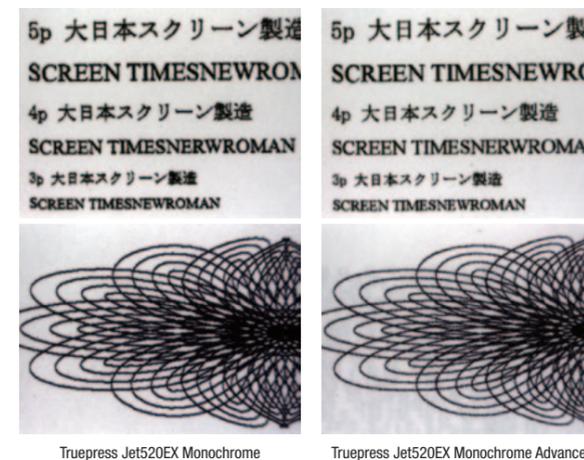
The layout of barcodes and other types of accessory can all be arranged to suit the size of the paper and finished item. This reduces paper wastage to a minimum and allows the creation of a cost-efficient and environmentally friendly workflow.



* Customers can also use the back side bar code area as print area if they like.

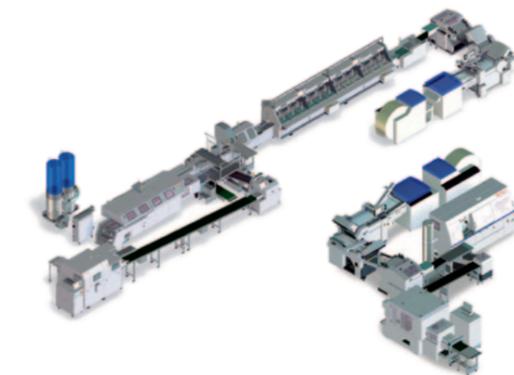
Excellent print quality with a maximum output resolution of 720 x 720 dpi

SCREEN's proprietary inkjet printhead and screening technologies deliver a maximum output resolution of 720 x 720 dpi. At this resolution, text remains sharp with clearly visible edges.



Linking with various book binding machines

Reflecting the trend toward diversified and small lot production, manufacturers of binding machines have all released roll paper compatible systems. The Truepress Jet520EX Monochrome Advanced can be linked with various binding machines. This ability reliably meets the needs of many customers related to perfect binding and saddle stitching for minimum lot runs and books containing variable data.

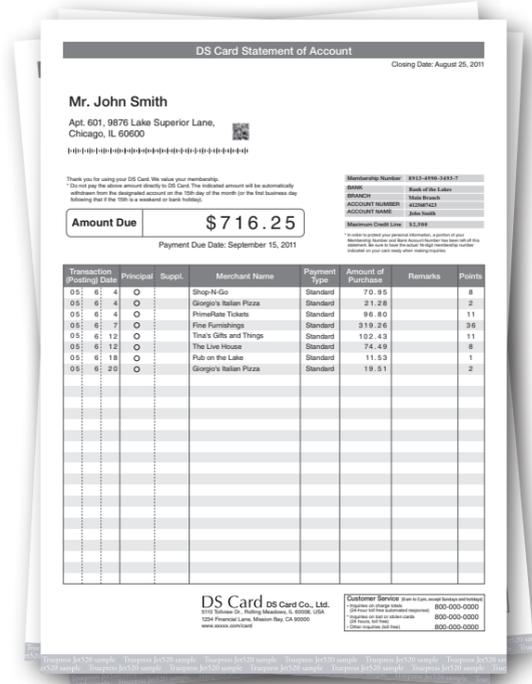


No concerns about lost or incorrectly ordered pages

Printing a single copy using a continuous sheet of roll paper eliminates collation in postpress processing and removes any concerns about missing or incorrectly ordered pages. This approach also includes linking with the book binding machine using barcode printing, leading to the construction of a more reliable production management system.

Data printing business

- Detailed statements and invoices
- Direct mail
- Notifications and guidance type materials
- Overprinting
- Other



Operational adaptability and flexibility supports the creation of new business

The Truepress Jet520EX Monochrome Advanced delivers outstanding efficiency thanks to a throughput equivalent to 1,720 A4 pages per minute.* In addition, its highly accurate reproduction of gradients and ability to use a wide range of papers allows it to achieve high quality in various fields.

* When using a dual engine duplex configuration. Preliminary calculation for 2-up duplex printing.

Streamlining using single-pass printing

With conventional data printing, it is common to use pre-print on an offset printer in advance and then print the variable parts on a non-offset printer. However, the Truepress Jet520EX Monochrome Advanced's exceptional quality now allows single-pass printing on blank paper. This clearly has benefits in terms of pre-printed shells, and also eliminates paper storage requirements and decreases control and disposal costs. It also enables more flexible handling of design changes required by customers.



Creation of secure workflows

The Truepress Jet520EX Monochrome Advanced can be combined with an optional bitmap inspection system to allow the creation of a highly secure workflow that further improves the security already offered by continuous document printing. As inspection results can be exported in CSV format, they can be used for ejecting defective pages in postpress devices and supplied to the printer as reprint information. This allows the construction of a secure system environment with an absolute minimum of human involvement.



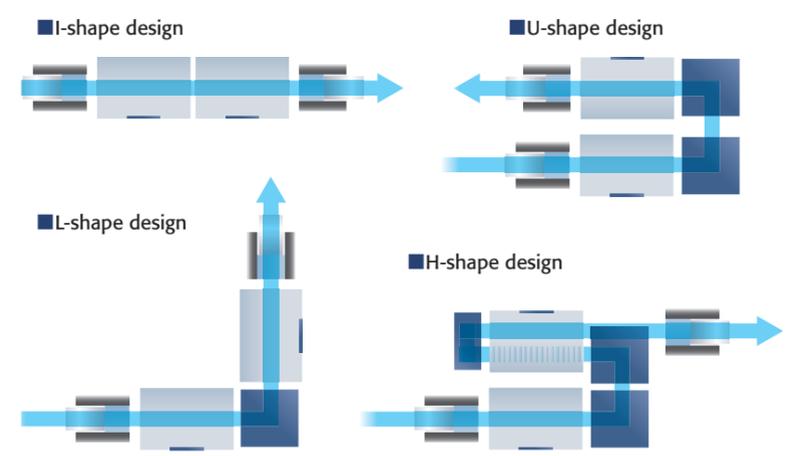
Availability of overprinting operation with inspection

By using the inspection system, overprint sections and even the dirt in the paper can be detected at real time.

Fully compatible with most work environments

Flexible layout

I-, L-, U- or H-shape designs can be selected for the printing unit and roll paper unwinder/rewinder unit layout to suit the application and installation space.



Selectable inks

A lineup including both water-based pigment and dye inks is available. The optimal ink type can be selected to suit the work details and conditions.

- Water-based pigment inks**
Pigment inks minimize both strike-through and spreading of characters, enabling sharp, unblurred printing. They also offer high resistance to water, light, heat, ozone and chemicals. These inks can be stored for extended periods, even under rigorous conditions.
- Water-based dye inks**
Dye inks are an excellent choice for applications in which cost outweighs the functionality provided by pigment inks.

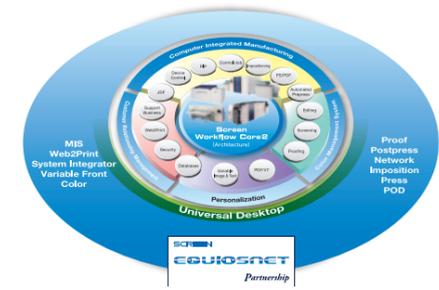
Ink supply

The remaining ink volume is displayed on a panel. Either cartridge or bottle type ink supply can be selected* to suit operational requirements.

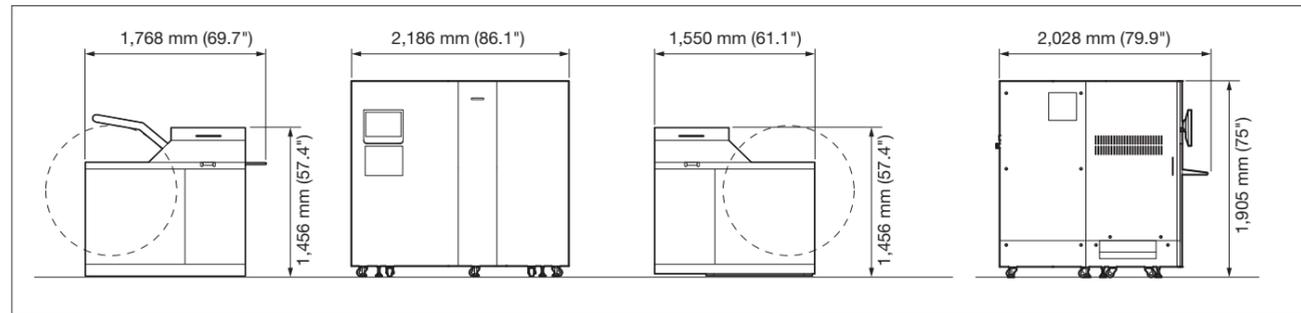


EQUIOSNET Partnership Program

This program enables end-to-end automation covering all processes from data submission to final processing and customer delivery, which are dependent on collaborations with partner companies representing each processing field in the printing industry. SCREEN provides customers with a succession of solutions that reduce errors and work load and enable the creation of a one-stop printing service.



Dimensions



Truepress Jet520EX Monochrome Advanced specifications

Printing method	Piezo single-pass printing, four tones per drop
RIP	EQUIOS
Ink	Water-based pigment inks, water-based dye inks
Resolution	Maximum 720 x 720 dpi
Product configurations	Simplex, Dual Engine Duplex
Printing speed (under SCREEN's conditions)	520Z EX Advanced Mono: Maximum 128 m (419.94')/min 520S EX Advanced Mono: Maximum 100 m (328.08')/min
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Operating environment	Temperature: 18 to 24°C (no sudden temperature changes) Relative humidity: 40 to 60% (no condensation)

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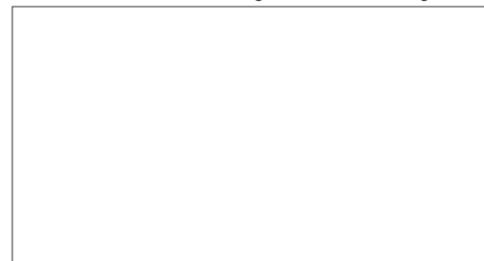


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SCREEN



Truepress Jet520EX
Monochrome

ADVANCED

Variable Printing System

Practical solution
for the monochrome printing market

