

POD

SCREEN

Creating a Future in Print

Truepress Jet520

Full-Color Variable Printing System



Attract new business opportunities with a var

Production printers are always looking for mass-print marketing alternatives to improve response rates, reduce costs, and increase demand for products.

Conventional commercial print job lengths have been reduced as marketing shifts to personalization printing, targeting the specific needs of a particular customer or market segment. This trend is leading to increased need for customized printing, with the highest impact coming from full-color variable printing.

Color variable print allows companies to go beyond focusing on a particular customer type, and talk to an individual. Personalized printed material can be interesting and effective to the target individual, catching their attention and producing a greater response. Commercial print companies expanding into the variable data printing market are sure to succeed as the trend continues to shift away from static printing.



Variable printing system



The information you need, when you need it

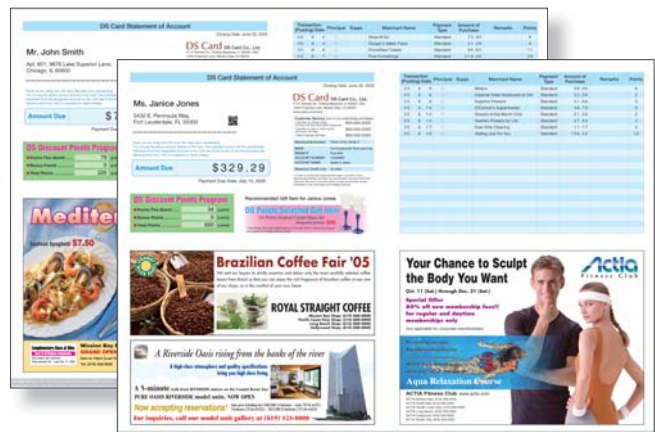
Companies strive to provide the exact products their customers need to improve efficiency and get a better response return for their marketing efforts. Full-color variable printing is the perfect tool to make it happen. Thanks to recent digital print improvements, it is now possible to create high-quality one-to-one marketing materials quickly.

The added value inherent in fast, high-quality, full-color variable printing opens the door to a variety of new applications and business opportunities.



Direct mail

No longer mass-produced materials, direct mail can now provide individually tailored information, in full color. Better response rates can be expected.



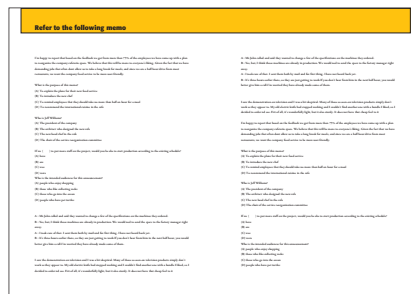
Invoices

Color information tailored to the individual customer's gender, age, and occupation can now be added to credit card bills and other invoices.



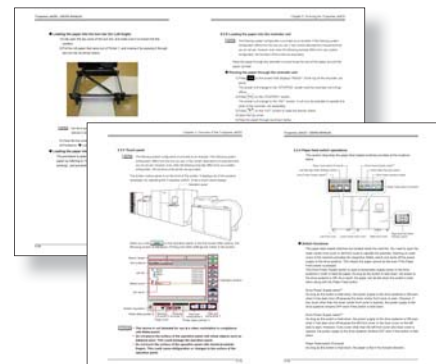
Publications

Full-color variable printing is attracting attention as a potential substitute for traditional offset printing in the production of local papers and magazines with limited circulation.



Study materials

Full-color variable printing can produce school study materials, such as practice questions, progress reports, and study guides, that are tailored to the needs of individual students, improving results in learning.



Product manuals

Full-color variable printing is perfect for the production of product manuals with a heavy page volume and full-color pages, when only a limited number of prints are required. It also eliminates the need for expensive stock inventory of manuals that become out-dated.



Get the Perfect Balance of Quality and Produ



Truepress Jet520

The Truepress Jet520 is a full-color variable printing system that combines Dainippon Screen's high-quality prepress technology with the very latest color inkjet technology. In addition to printing different images and text at high-quality on each page, the Truepress Jet520 features a roll-fed paper transport system that enables extremely fast, high-volume printing. The Truepress Jet520's remarkable combination of high-quality and high productivity creates tremendous added value and makes this full-color variable printing system the perfect tool for today's one-to-one marketing.

Thanks to the quality and speed it offers, the Truepress Jet520 is the perfect printing system for today's world. With Screen's ingenuity and the Truepress Jet520, together you can truly create your future in print.



High-quality printing with multiple drop sizes

Comfortable operating environment

Full lineup of models to suit every business need

High-speed, 128 meter-per-minute* printing onto a wide range of media

128 meter: 419.94 feet

Flexible workflow can be adjusted to suit production

ctivity with the Truepress Jet520



Quality

Easy Operation

Flexibility

Productivity

Workflow

Quality far beyond ordinary high-speed inkjet printing

The Truepress Jet520 combines the latest inkjet technology with Dainippon Screen's high-quality color management technology. It provides reliable, high-speed printing while maintaining superior quality. All this makes the Truepress Jet520 the perfect tool for the growing full-color variable printing market.



Inkjet heads and their output



Suitable for barcode printing



Piezo/DOD inkjet head

The Truepress Jet520 features the reputable Piezo Drop on Demand (DOD) inkjet heads manufactured by Seiko Epson Corporation. The piezo elements in these inkjet heads change shape according to the voltage applied, which enables extremely fine control of the ink drops ejected from the inkjet head. This grayscale technology generates extremely smooth gradations.

Single-pass production for better printing and registration precision

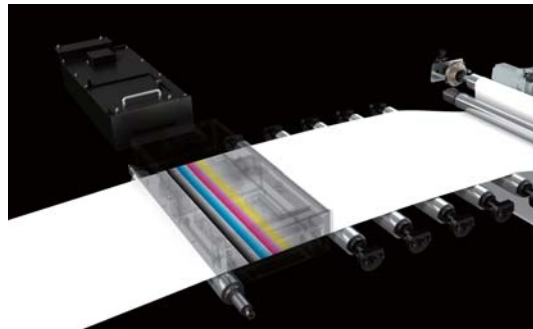
The inkjet heads are mounted in Screen's unique single-pass multiple-head array, which enables extremely high printing precision. The distances between the inkjet heads for each color, as well as the distances from the inkjet heads to the media, are short, ensuring exceptional color-to-color registration.

Top of its class 720 x 720 dpi imaging

The Truepress Jet520 boasts the highest resolution of any single-pass inkjet digital printing system – a remarkable 720 x 720 dpi. This makes it suitable for just about anything, including the output of barcodes, which must be output at high resolution to work properly.

Print quality monitoring

Unevenness is often cited as a problem when using multiple printheads. The Truepress Jet520 features built-in quality control scanners, reading a printed test chart and automatically correcting for any problems. The unit is also designed to use special techniques to prevent problems with jammed nozzles. The Truepress Jet520's automated printing quality monitoring ensures consistent, high-quality results throughout each job as the system prints.



High registration accuracy

Printing can be carried out with the aid of preprinted registration marks, marginal punches or registration marks created for use as a reference, to make certain print registration is maintained. Related registration marks on the front and back sides of each sheet ensures front-to-back registration and accuracy.

A sensor monitors the paper feed. If the paper starts to come out of proper alignment, the EPC roller tension is automatically adjusted to compensate, so that the paper is fed correctly at all times.

Preprinted marks and barcode marks

Preprinted marks Front side printing

The image shows a printed page with various registration marks and a barcode. The text on the page includes "Spring Lineup of Stylish Men's Wear (166.8mm)", "High quality suits and accessories for the stylish businessman", and "KYOTO-EYE". A barcode is located at the bottom left of the page.

Barcode

Back side printing **Preprinted marks**

The image shows the reverse side of a printed page with registration marks and a barcode. The text on the page includes "KYOTO-EYE" and "KYOTO-EYE". A barcode is located at the bottom right of the page.

Barcode



EPC roller

Water-based pigment inks, water-based dye inks

The Truepress Jet520's water-based pigment inks are highly water- and light-resistant. Its water-based dye inks support a wide range of paper grades, and have advantages on running cost.

In both cases, the Truepress Jet520 can output good photo quality onto a variety of stock, from inkjet paper to standard paper and even uncoated paper.

High speed output ensures fast turnaround

Information must be up-to-date, as well as reliable. The Truepress Jet520 is the perfect solution for the full-color variable printing field, which is so dependent on fast turnaround. With its maximum 420 feet-per-minute speeds and its ability to print onto a wide range of types of paper, the Truepress Jet520 offers the flexibility and productivity demanded by today's variable printing market.



Trifold direct marketing postcard size
300 x 145 mm (11.81" x 5.70")
880 postcards/min

52,800 postcards/hour



A4 size 297 x 210 mm (11.69" x 8.26") *2
Simplex: 860ppm *1

103,200 pages/hour
with a Dual Engine Duplex System



Tabloid size 273 x 406.5mm (10.74"x16.00")
Simplex: 468ppm

56,200 pages/hour
with a Dual Engine Duplex system

Printing speeds that support fast turnaround

The Truepress Jet520 can print at up to 420 feet of paper per minute at high-quality, in full color, and with all the advantages of variable printing. This makes it perfect for today's ever-tightening deadlines and helps ensure that information can be published in time. For a 2-up, A4-size page printed on one side only, the Truepress Jet520 can output about 860 ppm, or a remarkable 51,600 pages per hour. It can also output up to 52,800 3-page direct marketing leaflets per hour or 28,100 pages of tabloid size newspaper. The Truepress Jet520's astoundingly high productivity and page size flexibility allow it to meet just about any application.

*1. ppm: Pages Per Minute

*2. Letter size(11" x 8.5") : 910ppm, 109,200 pages per hour with a Dual Engine Duplex System



Suitable for a wide range of paper types

In addition to inkjet paper, the Truepress Jet520 can print directly onto general purpose paper and recycled paper, and even onto peel-off postcards, significantly expanding the range of jobs it can handle.

Easy Operation

A better work environment that makes things easy for the operator

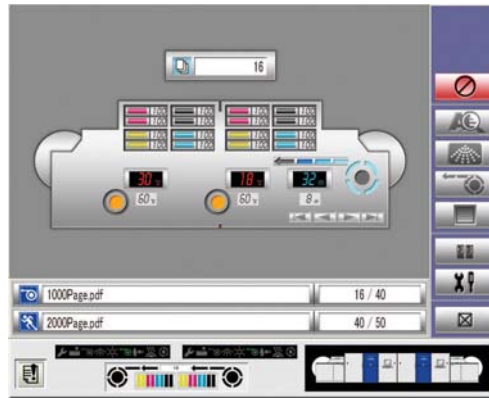
The Truepress Jet520 features a touch panel that makes operation simple. Even operators with little printing knowledge or experience can be trained quickly. Potentially troublesome color matching and head cleaning operations are automated. Maintenance is easy and doesn't require extensive downtime.

Touch panel

Printing job instructions, log management, and all the different printing settings can be made through the Truepress Jet520's user-friendly touch panel. The simple interface was designed to make operating the Truepress Jet520 effortless and efficient.



A touch panel makes operation easy



Consistent quality

To ensure consistent printing quality, Screen has incorporated the technology it developed through its years of experience as a scanner manufacturer into a built-in printing quality control scanner. This scanner reads test charts and determines if the inkjet heads need adjustment or cleaning.

Because of the large-size ink cartridges and ink levels displayed on touch panel, inks never run out during the print job.



Flexibility

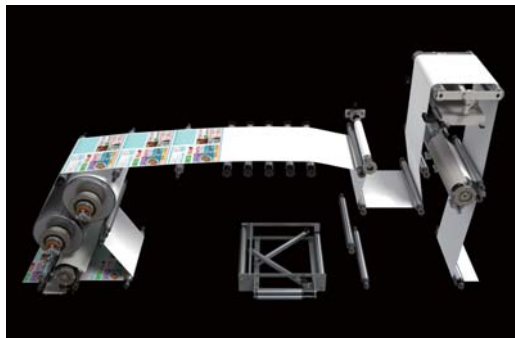
Customizable, thanks to a flexible layout and modular design

A variety of system setups are available to suit your print outputs and job conditions. The Truepress Jet520 also features a flexible layout that allows it to fit almost any space while accommodating your specific needs in terms of job content and printing volume.

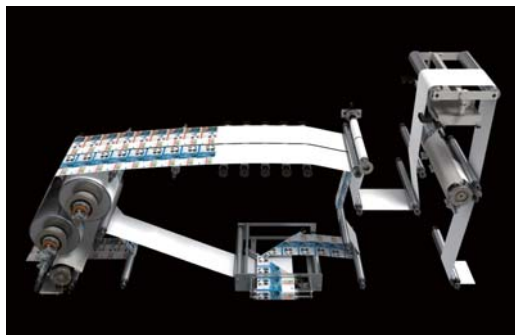
The flexibility to handle a variety of printing tasks

A single printing unit of Truepress Jet520 has the flexibility to switch between printing full-web, single sided (Simplex) and half-web duplex (Single Engine Duplex). You can also combine two printing units to print full web, both sides of the paper (Dual Engine Duplex). This flexible design makes the Truepress Jet520 an affordable choice.

Simplex



Single Engine Duplex



A variety of installation setups

The Truepress Jet520 can be set up in a variety of shapes, depending on how the printing units and paper roll unwinder/rewinder units are positioned. These include a straight line design (I-shape), a partial loop design (U-shape), and a right angle design (L-shape). Simply choose the arrangement that best suits your needs.

Straight line design (I-shape)



Right angle design (L-shape)



Partial loop design (U-shape)



Connect to postpress processing

Since the Truepress Jet520 has an open interface, it can be connected to a variety of postpress processing units, such as folding and cutting equipment. This contributes to an even more productive processing environment. Mail inserting system can be added offline.

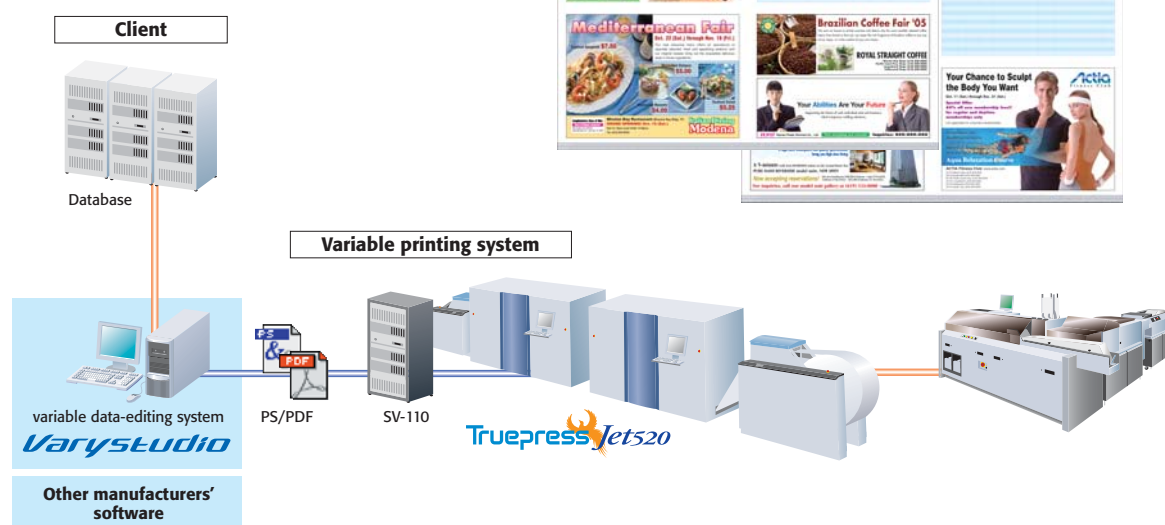
Workflow

The flexibility to handle both variable and on-demand printing

Variable printing workflow

Variable printing is indispensable for the success in the business of one-to-one marketing. Cooperation with various kinds of variable front-end software that can support full-color data along with existing legacy environments is also important to the success of the variable printing system. The Truepress Jet520 takes full advantage of color variable printing workflows, cooperating with these front-end software products and environments.

The Truepress Jet520 features the SV-110 high-speed parallel processing controller, incorporating the latest Adobe RIP. The Truepress Jet520 can function both as a high-quality, high-volume variable data printing system and as a high-speed on-demand printing system, ensuring the optimal workflow for your particular job types and printing volume.



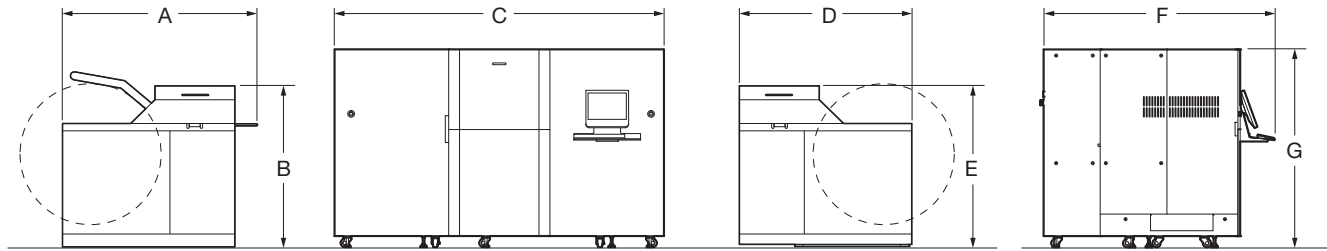
On-demand printing

The Truepress Jet520 is perfect for the on-demand production of local magazines and periodicals, small-lot printing jobs for a particular market segment, as well

as for the immediate production of jobs with tight deadlines. Since it accepts printing industry standard PDF and PostScript DTP data, the Truepress Jet520 fits right into existing printing workflows.



Space requirements



Dimensions

| | A | B | C | D | E | F | G |
|--------|-------|-------|-------|-------|-------|-------|-------|
| mm | 1,768 | 1,456 | 2,960 | 1,550 | 1,456 | 2,075 | 1,780 |
| inches | 69.7 | 57.4 | 116.6 | 61.1 | 57.4 | 81.7 | 70.1 |

Truepress Jet520 specifications

| | |
|------------------------|--|
| Printing method | Piezo single-pass printing, four tones per drop |
| Ink | Water-based pigment inks, water-based dye inks, four process colors (CMYK) |
| Resolution | 360 x 360 dpi, 720 x 360 dpi, 720 x 720 dpi |
| Printing speed*1 | Maximum 128 m (419.94')/min (360 x 360 dpi) |
| Printing width*2 | 150 to 507 mm (5.90" to 19.96") |
| Paper width*3 | 165 to 520 mm (6.50" to 20.47") |
| Dimensions (W x D x H) | 2,960 (116.6") x 1,766 (69.6") [2,075 (81.7") including operation panel] x 1,780 mm (70.1") [printer unit] |
| Weight | 2,400 kg (5,291 lb) [Sinplex], 2,500kg (5,511 lb) [Single Engine Duplex] |
| Power source | Printer: Three phase 200 V, 25 A Single phase 200 V, 15 A Single phase 200 V, 2 A Unwinder and rewinder units: 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) |

*1 Maximum 64m (209.97') during duplex printing with a single engine duplex system.

*2 150 to 238 mm (5.90" to 9.37") during duplex printing with a single engine duplex system.

*3 165 to 250 mm (6.50" to 9.84") during duplex printing with a single engine duplex system.

DAINIPPON SCREEN MFG. CO., LTD.

• Adobe and PDF are trademarks of Adobe Systems Incorporated.

HEAD OFFICE

• Teranouchi-agaru 4-chome, Horikawa-dori, Kamigyo-ku, Kyoto, 602-8585 Japan/Phone +81-75-414-7610/Fax +81-75-414-7608

SCREEN (USA)

• 5110 Tollview Dr., Rolling Meadows, IL 60008, USA/Phone 847-870-7400/Fax 847-870-0149 www.screenusa.com

DAINIPPON SCREEN (DEUTSCHLAND) GmbH

• Mandelheimer Weg 39, 40472 Düsseldorf, Germany/Phone 0211-472701/Fax 0211-4727199/Telex 858-4438 DSDD D

DAINIPPON SCREEN (U.K.) LTD.

• Michigan Drive, Tongwell, Milton Keynes, Buckinghamshire MK15 8HT, UK/Phone 01908-848500/Fax 01908-848501 www.screen.co.uk

DAINIPPON SCREEN (NEDERLAND) BV

• Souwerij 46, 1185 XX Amstelveen, Holland/Phone 020-4567800/Fax 020-4567805 www.screeneurope.com

SCREEN FRANCE

• 10 allée des Cascades, immeuble Niagara, Z.I. Paris Nord 2, 95940 Roissy C.D.G. Cedex, France/Phone +33 (0)1 48178600/Fax +33 (0)1 48178601

DAINIPPON SCREEN SINGAPORE PTE. LTD.

• 29, Kaki Bukit View, Kaki Bukit Technopark II, Singapore 415963/Phone 67493833/Fax 67499010 www.screensp.com.sg

DAINIPPON SCREEN (CHINA) LTD.

• Room 2001 - 2003, 20/F Cable TV Tower 9 Hoi Shing Road Tsuen Wan, N.T. Hong Kong/Phone +852-2953-0038/Fax +852-2755-8683

Beijing office/Phone 010-6708-9271, 9272, 9273/Fax 010-6708-9395

Shanghai office/Phone 021-6466-4501/Fax 021-6466-4503

Guangzhou office/Phone 020-3981-1112/Fax 020-3981-1036

DAINIPPON SCREEN (TAIWAN) CO., LTD.

• 4F No. 126-1, Ming Tsu West Rd., Taipei, Taiwan/Phone 02-25862711/Fax 02-25914367

DAINIPPON SCREEN (KOREA) CO., LTD.

• 10th, Yonsei Bongsae B/D 4B-3, 7Ga, Bongsae-Dong, Joong-Gu, Seoul 100-161, Korea/Phone 02-7766-786/Fax 02-7766-787

DAINIPPON SCREEN (AUSTRALIA) PTY. LTD.

• Suite 11, 2 Eden, Park Drive, Macquarie, NSW2133, Australia/Phone +61-2-9016-3400/Fax +61-2-9016-3425

Internet web site : www.screen.co.jp

www.screenusa.com

www.screeneurope.com

• This brochure was made using SPEKTA 2 screening.

We reserve the right to alter product design and specifications without prior notice.

No.205-125E Printed in Japan 06-08 060FSI(R1-1)