

POD Product Handbook

Technology you can rely on



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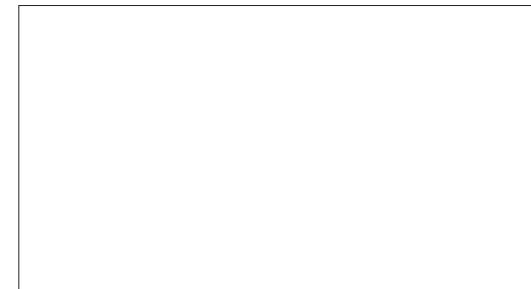
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No. 205-119E Printed in Japan 05-08 100FSI(R0-0)

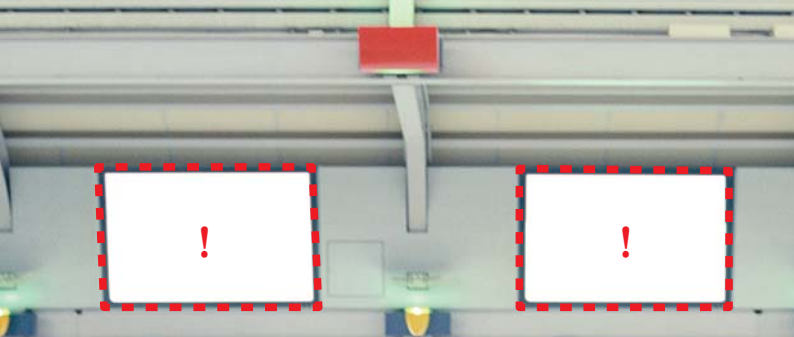


Creating a Future in Print



The printing industry is surely ongoing transition to a full automated workflow. What brings these dramatical changes, is our cultivated prepress technology such as screening and color knowledge, and also precise manufacturing and programming skills.

The industry's next common ideal is true "Print On Demand", satisfying small lot printing, short turn-around time, stockless production and various application support. With those 60 year experience in printing, we are assured that we can contribute to the market again by our Print On Demand solutions.



Print On Demand will change your business and your lifestyle.



Increase your one-to-one business with the aid of a high-quality, full-color variable printing system

Truepress Jet520 Full-Color Variable Printing System

The Truepress Jet520 is a digital printing system for the growing full-color variable data market. It was developed by combining Screen's famed prepress technology with the latest inkjet printing technology. This revolutionary system, which uses high-speed color inkjet printing, offers high performance and high-quality with low running costs. Uniting speed with beautiful output, the Truepress Jet520 is a next-generation digital printing system that is perfect for variable printing of everything from personalized product catalogs and direct mails, in which the use of color continues to increase, to full-color bank statements, technical manuals, and industry newsletters.

Superior expressiveness and quality

The Truepress Jet520 features Seiko Epson Corporation's reliable Piezo Drop on Demand (DOD) inkjet heads. 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 multi-drop technology generates extremely smooth gradations. 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 substrate, are short, ensuring exceptional plate registration and color-to-color registration.



• Inkjet heads and their output

Superior productivity

The Truepress Jet520 can print up to 128 meters per minute of variable, full-color data. The Dual Engine Duplex system setup, which consists of two connected Simplex units, has a productivity of 108,000 A4 pages per hour, or it can print 74,400 trifold direct mail postcards per hour, or 27,600 newspaper size pages per hour. The Truepress Jet520 makes it possible to send out high-quality full-color variable printing products in a timely manner, helping you meet today's increasingly tight deadlines.

Trifold direct mail postcard size
300 x 145 mm (11.81" x 5.70")
Simplex: 1,240 ppm*1
74,400 postcards/hour

A4 size
297 x 210 mm (11.69" x 8.26")*2
Simplex: 940 ppm
100,800 pages/hour, during duplex printing

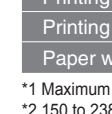
Newspaper size
546 x 406 mm (21.49" x 15.98")
Simplex: 230 ppm
27,600 sheets/hour, during duplex printing

*1 ppm: Pages Per Minute
*2 Letter size (11" x 8.5"): 900 ppm, 108,000 pages per hour

Flexible workflow

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 for like local magazines and periodicals, small-lot printing jobs or immediate production jobs with tight deadlines. Since it accepts printing industry standard PDF and PostScript DTP data, the Truepress Jet520 fits right into existing printing workflows.

Variable data-editing system
Varystudio
Varystudio is SCREEN's own variable data software that has been developed to maximize the performance of the Truepress Jet520. It can output optimized data for our print unit, and offers several system configurations that match different customers' requirements. As an Adobe InDesign plug-in, Varystudio is easy to use and features a hot folder workflow. Without any special training, well-designed, appealing transactional material can be created.



*1 Maximum 64m (209.97"/min) 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.

Truepress Jet520	
Printing method	Piezo single-pass printing, four tones per drop
Ink	Water-based dye inks, water-based pigment inks, four process colors (CMYK)
Resolution	720 x 360 dpi, 720 x 720 dpi
Printing speed*1	Maximum 128 m (419.94')/min (at 720 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")

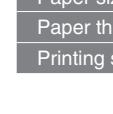
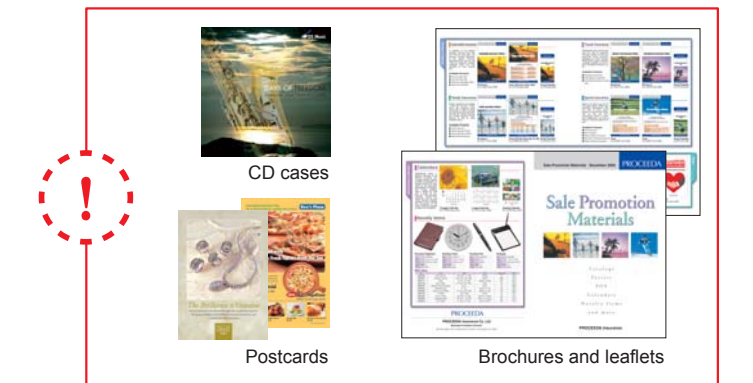


A four-color digital offset printing press that ensures high quality for even small lot jobs

Truepress 344 Digital offset press

The Truepress 344 is an A3 four-color digital offset press that incorporates the latest in innovative imaging and plate technology, as well as state-of-the-art automation and quality control. It prints 7,000 impressions per hour, and its conventional wet offset printing process ensures high print quality and flexibility, as well as economical running costs since traditional inks and paper are used.

The Truepress 344 includes TrueFit Advance, an automatic print quality management system that helps realize the advantages of digital printing by controlling ink key and dampening solution levels throughout the print run to ensure consistently high quality with minimal operator intervention.



Truepress 344	
Printing method	Wet offset printing
Substrate	Processless thermal plates
Resolution	2,400 dpi
Printing area	Max. 330 x 460 mm (13" x 18.1")
Paper size	90 x 148 mm (3.5" x 5.8") to 340 x 470 mm (13.4" x 18.1")
Paper thickness	0.05 to 0.4 mm (2 to 15.7 mil)
Printing speed	Up to 7,000 sheets/hour



Print onto both board and rolled substrates with this wide-format, high-speed, high-quality UV inkjet printing system

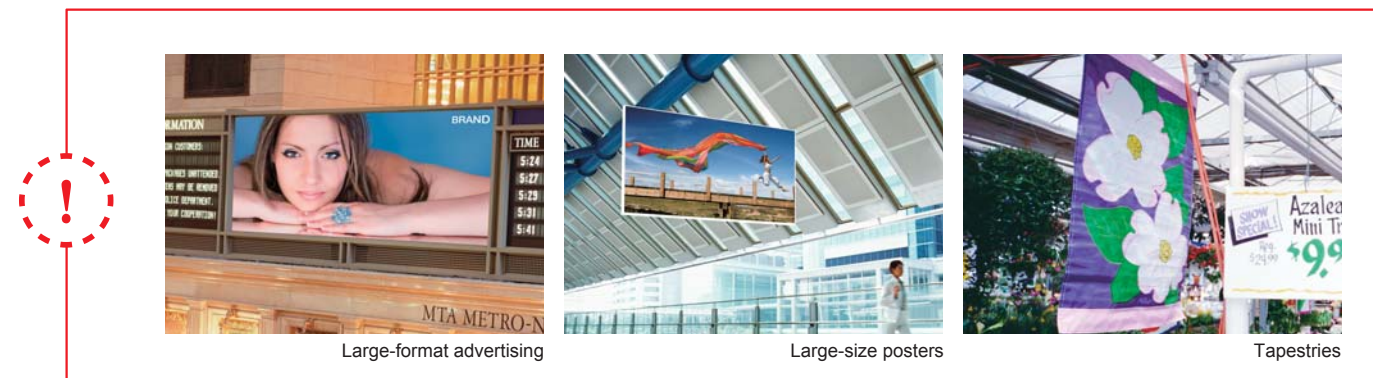
Truepress Jet2500UV Wide format UV inkjet printing system

The Truepress Jet2500UV is a wide-format UV inkjet printing system that can print onto many different substrates—both flat and rolled—in a wide range of sizes. Offering a fantastic balance between quality and productivity, it boasts a maximum output resolution of 1,500 dpi and a top speed of 67.5 m² per hour, and can be used with both boards and rolled substrates up to 2,500 mm wide. It even offers an automatic printhead cleaning function.

Compatible with substrates and applications ranging from POP to posters, banners, building materials, and textiles, the Truepress Jet2500UV is poised to revolutionize the wide-format sign and display market.



• Suitable for boards and rolled substrates



Large-format advertising

Large-size posters

Tapestries

Truepress Jet2500UV	
Printing method	UV-curable flat and rolled substrate inkjet printing system
Ink	Original flexible UV ink (CMYK is standard, LcLm and White are optional)
Output resolution	1,500/1,200/900/600/300 dpi
Output size	Maximum output width 2,500 mm (98.4")
Substrate size	Rolled substrates: Maximum substrate width 2,500 mm (98.4"), maximum substrate length 50 m (164') *Exact measurements depend on the substrate. Board substrates: Maximum size 2,500 x 1,300 mm (98.4" x 51.1") (under the standard specifications), optional use of longer substrates is supported (when the media loading table is installed).
Substrate thickness	Maximum substrate thickness 50 mm (1.96")
Printing speed	Maximum speed 67.5 m ² /hour (under Screen's operating conditions)



Higher quality and precision gradations in an industrial UV inkjet printing system

Truepress Jet650UV UV inkjet printing system for industrial use

The Truepress Jet650 UV features an adaptation of Screen's proven printing technology for use in inkjet printing, which enables the world's highest levels of productivity and precision in an industrial inkjet printing system.

With a top speed of 1,300 cm² per minute (under Screen's recommended operating conditions), the Truepress Jet650UV boasts the world's highest productivity for industrial use, thanks to the incorporation of a linear motion drive. It features a variety of printhead quality maintenance functions, including a misfire check function and non-contact wiping, which eliminate many of the problems that have plagued inkjet printing in the past. The Truepress Jet650UV also has a function that prevents the heat of the UV light source from distorting resin-type substrates, which helps ensure consistent production and high reliability.



• θ adjustment (microscopic angle adjustment) of the printing table is carried out automatically with great precision.



Sample drink cans for vending machines (printing of flat stickers that can be used on solid objects)

Automobile gauges (instrument panel, etc.)

Plastic cards

Truepress Jet650UV	
Printing method	UV-cured flatbed inkjet printing system: Grayscale printheads, color module type (up to 8 modules and 32 heads)
Ink	Original flexible UV ink (CMYK is standard, White ink is optional)
Output resolution	Maximum output resolution 2,400 dpi
Output size	644 x 594 mm (25.3" x 23.3")
Substrate size	Maximum 650 x 600 mm (22.5" x 23.6")
Substrate thickness	Maximum substrate thickness 50 mm (1.96")
Substrate setup	Positioning using adjustable height pins, vacuum attachment
Printing speed	Maximum speed 1,300 cm ² /minute (under Screen's operating conditions)

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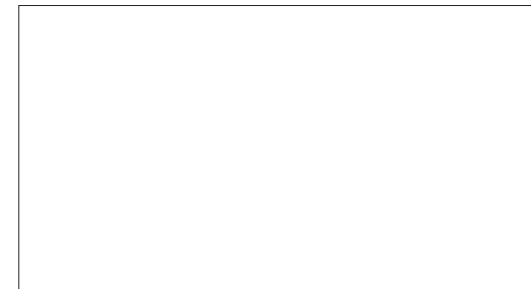
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