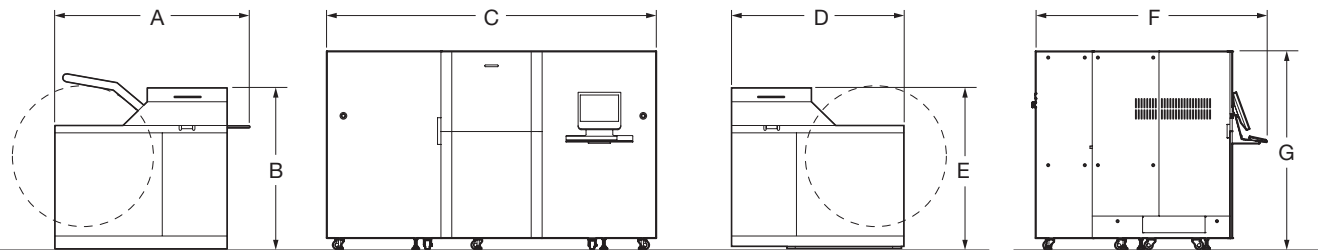


Space requirements



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 Advanced specifications

Printing method	Piezo single-pass printing, four levels
RIP	EQUIOS
Ink	Water-based pigment inks, water-based dye inks, four process colors (CMYK)
Resolution	Maximum 720 x 720 dpi
Printing speed (under SCREEN's conditions)	520Z Advanced : Maximum 128m (419.94')/min 520S Advanced : Maximum 100m (328.08')/min 520E Advanced : Maximum 50m (164.04')/min
Printing width*1	150 to 507 mm (5.90" to 19.96")
Paper width*2	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) [Simplex], 2,500 kg (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 unit/Rewinder unit: Single phase 200 V, 17 A Controller: Single phase 200 V, 25 A
Operating environment	Temperature: 18 to 24 °C (64.4 to 75.2°F) (no sudden temperature changes) Relative humidity: 40 to 60 % (no condensation)

*1 150 to 238 mm (5.90" to 9.37") during duplex printing with a single engine duplex system.
*2 165 to 250 mm (6.50" to 9.84") during duplex printing with a single engine duplex system.

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For more information, please visit our web site.



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• This brochure was made using SPEKTA 2 screening.



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SCREEN

POD



Truepress Jet520

ADVANCED

Full-Color Variable Printing System

Incredible performance and reliability
Globally recognized world standard model



Opening up new business fields with full-color variable printing

Marketing approaches aim to create close communication with customers, and this has led to a rapid shift in focus from mass to segment and now individuals as targets.

Particularly in the personalized printing field, the issue of how to effectively deliver added value is attracting attention—as is the requirement to provide improved information management from the perspective of ensuring compliance with personal information protection laws.

The Truepress Jet520 Advanced answers these challenges.

This system provides a high-level balance of speed and quality, and addresses the important themes of one-to-one marketing and work requiring an ultra-fast turnaround.

It enables your company to deploy various applications strengthened by the value-added features of full-color variable printing. The result: greatly expanded business opportunities.

Make Us Your Partner

What you need is always changing depending on the market situation, and what we can offer now does not mean we cannot do more for you. Having been in the printing market since 1943, SCREEN knows the importance of being our customers' business partner and of not being afraid of changing ourselves to advance. Worldwide SCREEN group is eager to be your best partner with our technology, experience and creativity. Make us your partner, create new solution for YOUR clients with SCREEN.



Direct mail

The Truepress Jet520 Advanced is excellent for use in creating promotional tools. No longer mass-produced materials, direct mail can now provide individually tailored information, in full color. Better response can be expected.



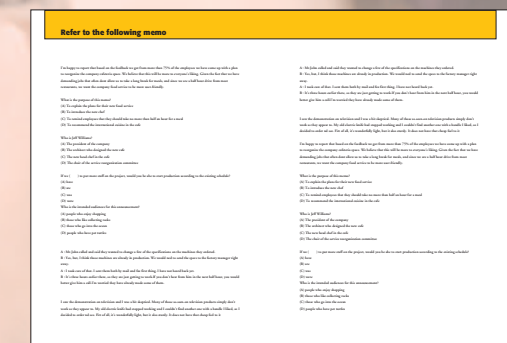
On-demand books

High-quality books of any quantity, even small lots, can be printed with a short lead time. SCREEN offers high-quality book binding with excellent print quality.



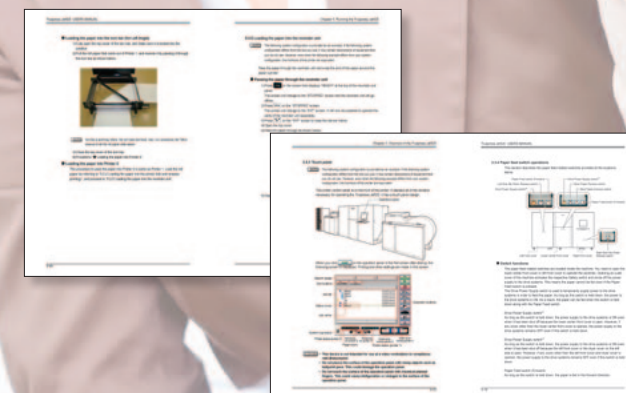
Invoices

Full-color information segmented according to an individual's gender, age, and occupation can now be added to credit card bills and other invoices, which have an extremely high opening rate.



Study materials

The Truepress Jet520 Advanced can produce school study materials, such as practice questions, progress reports, and study guides, that are tailored to the needs of individual students.



Product manuals

The Truepress Jet520 Advanced 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.



Newspapers & free papers

Information on printed media, such as articles and advertisements can be regionally optimized and be printed in just the quantities required. This approach is attracting attention as a new newspaper business solution.

Two new speed modes better meet customer needs



The Truepress Jet520 Advanced has established itself as the industry's leading high-speed, full-color variable printing system. This proven model has now been relaunched with a range of new functions and modes.

The new Truepress Jet520 Advanced features unrivalled internationally recognized reliability, extremely user-friendly operation, a design that can be upgraded according to production volume, and world-leading cost performance. Meet the ideal partner for companies that are targeting new business areas.

Quality

High-quality printing with multiple drop sizes

Productivity

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

* 128 meters: 419.94 feet

Easy Operation

Comfortable operating environment

Workflow

New generation EQUIOS workflow system

Flexibility

Flexible layout



Outstanding reproduction that creates clearly superior results

The Truepress Jet520 Advanced combines SCREEN’s proven inkjet technology with the latest prepress technology. It provides reliable, high-speed printing while maintaining superior quality. All this makes the Truepress Jet520 Advanced the perfect tool for the growing full-color variable printing market.

Piezo/DOD inkjet head

The Truepress Jet520 Advanced 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 fine control of the ink drops ejected from the inkjet head. This world-first grayscale technology allows the reproduction of extremely smooth gradations.

Better printing and registration precision from a more compact design

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.



■ Inkjet heads and their output

High-quality printing supporting barcodes

The Truepress Jet520 Advanced enables EAN128 and other high-resolution barcodes to be printed with high accuracy to ensure reliable reading.

■ Suitable for barcode printing

(91) 899091-5758593738390001028990
915758-5-937383-2

(91) 912345-0123456789012345678901
010331-0-123000-3

Print quality monitoring

Unevenness is often cited as a problem when using multiple printheads. The Truepress Jet520 Advanced features built-in quality control scanners, reading a printed test chart and automatically checking and adjusting. The unit is also designed to use special techniques to prevent problems with clogged nozzles. The Truepress Jet520 Advanced'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.

■ EPC roller

■ Preprinted marks and barcode marks

Preprinted marks

Front side printing

Front/back barcode

Back side printing

Preprinted marks

Front/back barcode

Selection of optimal inks to suit the application

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 provide outstanding water, heat, chemical, and light resistance, allowing long-term storage of documents. They also offer wide-ranging color reproduction and are suitable for various applications.
- **Water-based dye inks**
Dye inks offer vivid coloring, with particularly impressive display of intermediate colors. They are also effective for reducing operating costs.

High speed output ensures fast turnaround

While print speed is a key factor in improving throughput, even more important is operational efficiency. The Truepress Jet520 Advanced is widely recognized for its world-leading performance. This is made possible by its 128 meter (419.8 feet) per minute high-speed printing and outstanding operability, reliability and easy maintenance. Together these features maximize both operational efficiency and productivity.



Trifold direct marketing postcard size
300 x 145 mm (11.81" x 5.70")

880 postcards/min



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

1,720 pages/min
with a Dual Engine Duplex System



Tabloid size 546 x 406.5 mm (21.48" x 16.00")
Simplex: 460 ppm

920 pages/min
with a Dual Engine Duplex system

Printing speeds that support fast turnaround

The Truepress Jet520 Advanced 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 Advanced 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 27,600 pages of tabloid size newspaper. The Truepress Jet520 Advanced'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") : 910 ppm, 1,920 pages per minutes with a Dual Engine Duplex System

Suitable for a wide range of paper types

In addition to inkjet paper, the Truepress Jet520 Advanced 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.

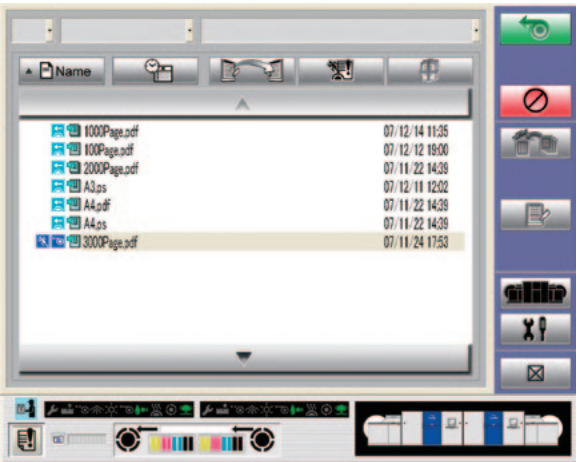


A better work environment that makes things easy for the operator

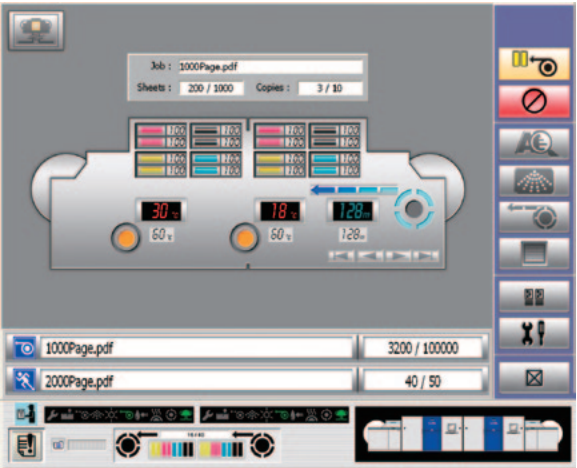
The Truepress Jet520 Advanced features a touch panel that makes operation simple. Even operators with little printing knowledge or experience can be trained quickly. Potentially troublesome color matching and head cleaning operations are automated. Maintenance is easy and doesn't require extensive downtime.

Touch panel

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



Job list screen

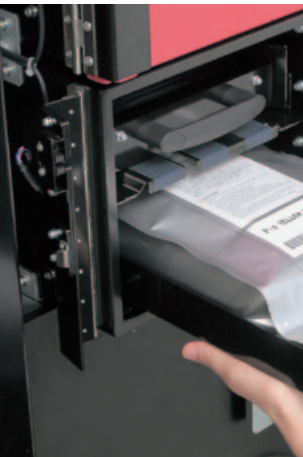


Printer screen

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.

* Specified before shipment



Ink cartridge



Ink bottle

Automatic diagnosis and correction

To ensure consistent printing, SCREEN has equipped the Truepress Jet520 Advanced with scanner technology for improved quality control. The scanner is able to read in test charts and automatically detect inkjet printheads that require automatic adjustment and cleaning.

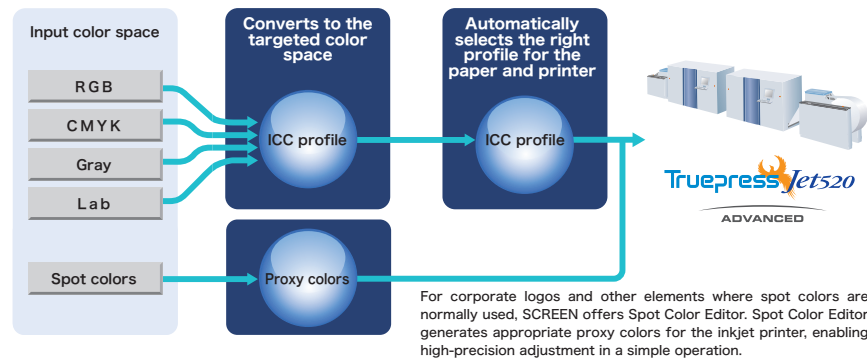
Linked workflow EQUIOS leads the digital printing era

EQUIOS is a professional workflow system created based on SCREEN’s extensive experience, which provides straightforward usage regardless of the operator’s own experience and specialized skill. EQUIOS offers high-speed processing using the latest RIP core, practical and easy color management linked to paper information and simplified imposition based on in-depth prepress know-how.



Automatic selection of optimal profile by EQUIOS Color Management System

The EQUIOS Color Management System first converts all the elements in a job to the targeted color space, such as FOGRA or Japan Color. It then automatically selects the appropriate ICC profile according to paper types and output devices. Thanks to the EQUIOS Color Management System, the specialized skill is not required to get professional results.



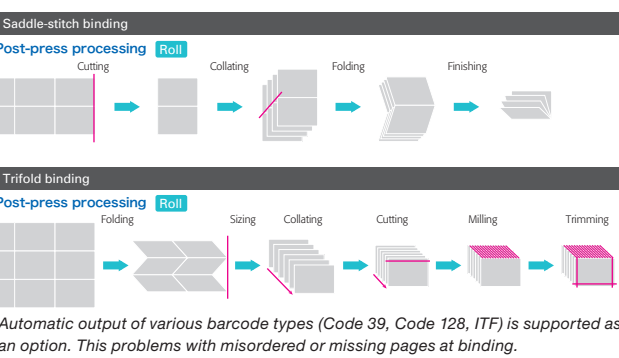
Scalable Load Balancing that maximizes productivity

EQUIOS features a scalable load balancing function designed to ensure optimal performance with the Truepress Jet520 Advanced and other connected engines. The configuring of large volumes of data requires high capacity and load balancing is performed internally to

derive maximum performance from the overall system. A system configuration can also be constructed specifically to match the type of work carried out by a customer.

Smart Imposition: optimal impositions, whatever the binding method

EQUIOS is equipped to handle not only a multitude of impositions for book binding specifications including saddle stitching, and perfect binding from a single paper roll, but also provides easy layout functions for accessory items such as crop marks and barcodes required for post-press processing. It’s a full support system for high quality print production with rapid turnaround. EQUIOS provides precision support for varied customer needs, such as on-demand book production, which has been attracting increasing attention in recent years.

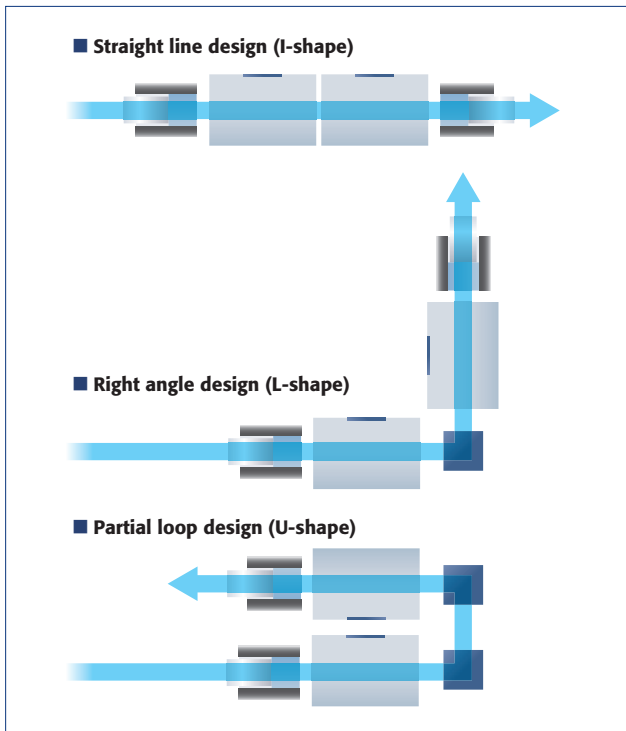


Customizable, thanks to a flexible layout

A variety of layouts are possible to suit individual site environments and operator work processes.

A variety of installation setups

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.

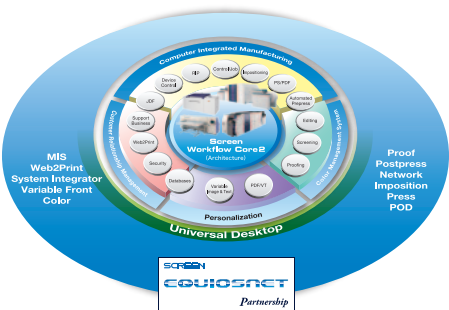


Connect to postpress processing

Since the Truepress Jet520 Advanced 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.

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 intends to provide customers with a succession of solutions that reduce errors and work load and enable the creation of a one-stop printing service.



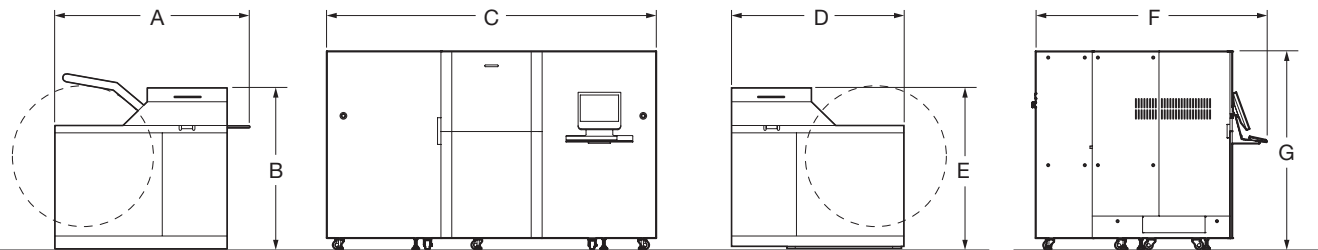
Truepress Jet520 ADVANCED

Full-Color Variable Printing System

Incredible performance and reliability
Globally recognized world standard model



Space requirements



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Operating environment	Temperature: 18 to 24 °C (64.4 to 75.2°F) (no sudden temperature changes) Relative humidity: 40 to 60 % (no condensation)

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