

SCREEN

POD

Creating a Future in Print

Truepress Jet520

Full-Color Variable Printing System

Incredible quality and reliability
Globally recognized world standard model



Opening up new business fields

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 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 for your company.

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 printing market since 1943, Screen knows the importance of being 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.



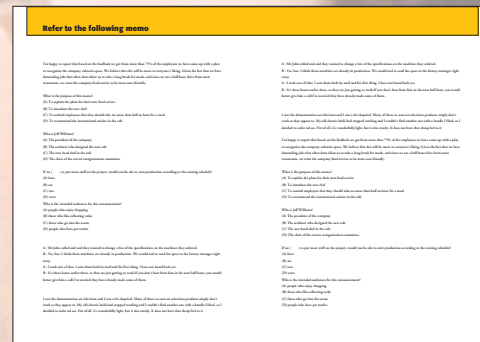
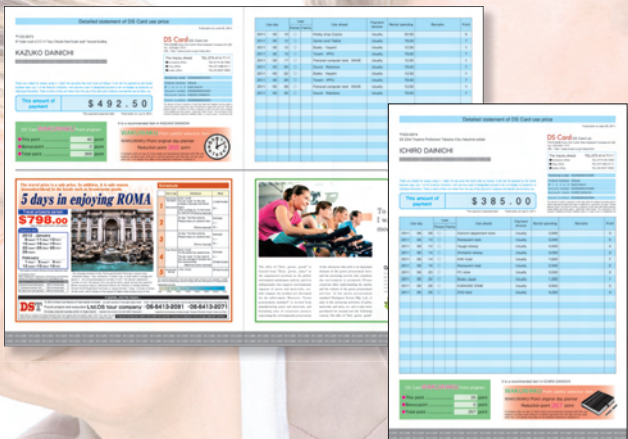


Direct mail

The Truepress Jet520 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 offset-quality printing.

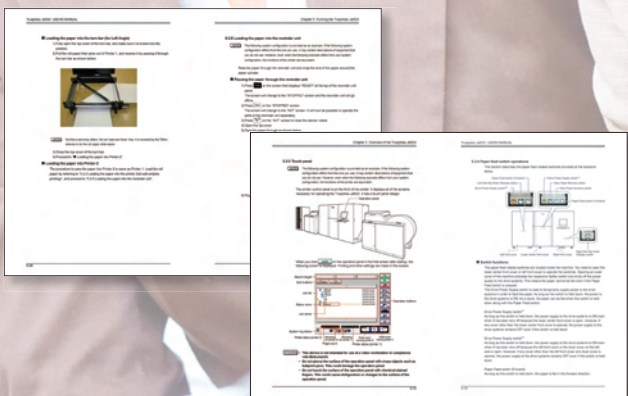


Invoices

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 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

The Truepress Jet520 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 the necessary small lot sizes. This approach is attracting attention as a new newspaper business solution to replace web printing.

Get the Perfect Balance of Quality and Productivity with the 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.



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

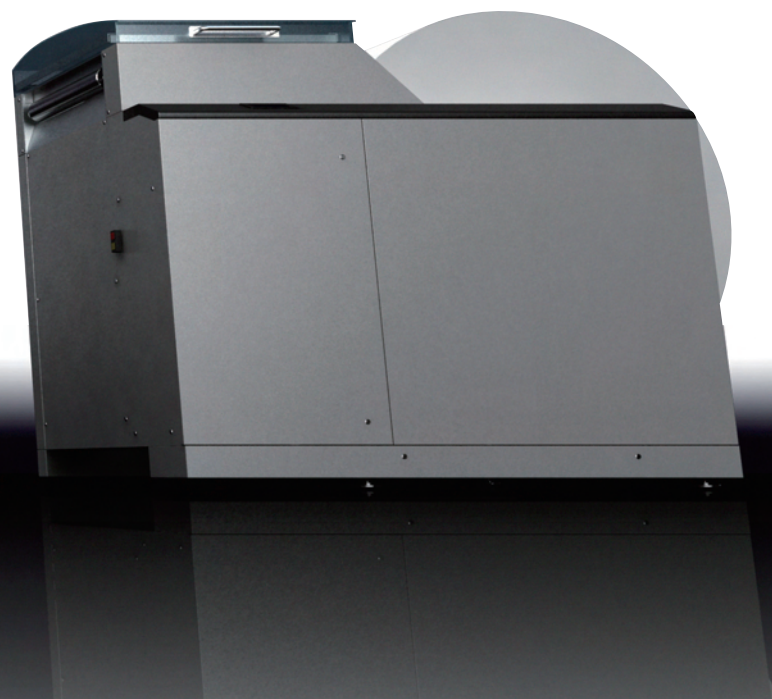
Comfortable operating environment

Flexibility

Full lineup of models to suit every business need

Workflow

New generation EQUIOS workflow system



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.

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.



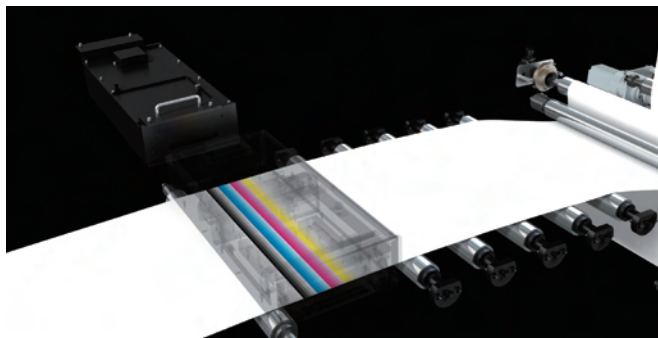
■ Inkjet heads and their output

■ Suitable for barcode printing



Print quality monitoring

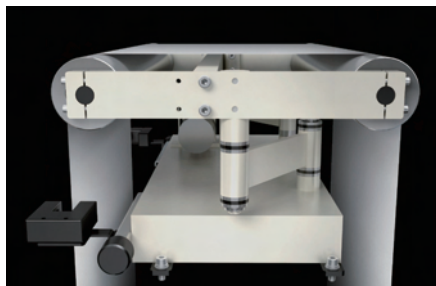
Unevenness is often cited as a problem when using multiple printheads. The Truepress Jet520 features built-in quality control scanners, reading a printed test chart and automatically correcting for any problems. The unit is also designed to use special techniques to prevent problems with jammed nozzles.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



EPC roller

Preprinted marks and barcode marks

Front side printing

Preprinted marks

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

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



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 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") : 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 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 features a touch panel that makes operation simple.

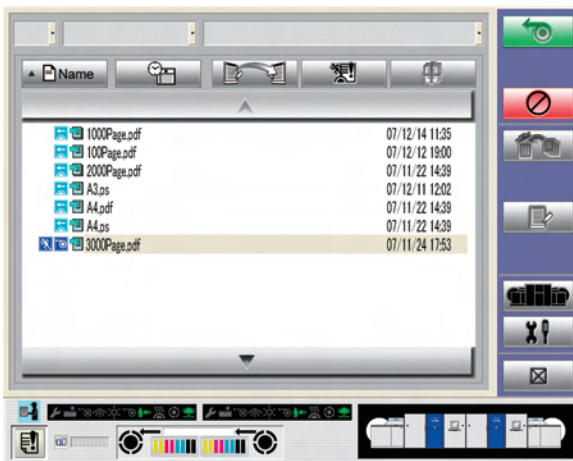
Even operators with little printing knowledge or experience can be trained quickly.

Potentially troublesome color matching and head cleaning operations are automated.

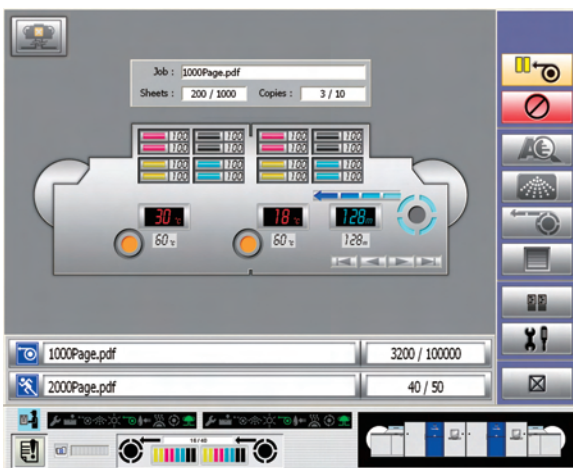
Maintenance is easy and doesn't require extensive downtime.

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.



Job list screen



Printer screen

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.



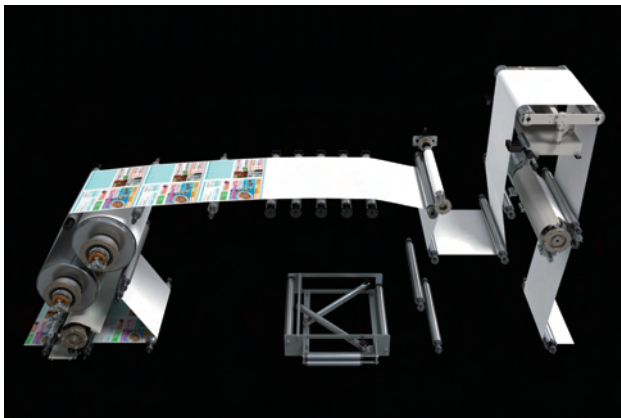
Flexibility

Customizable, thanks to a flexible layout and modular design

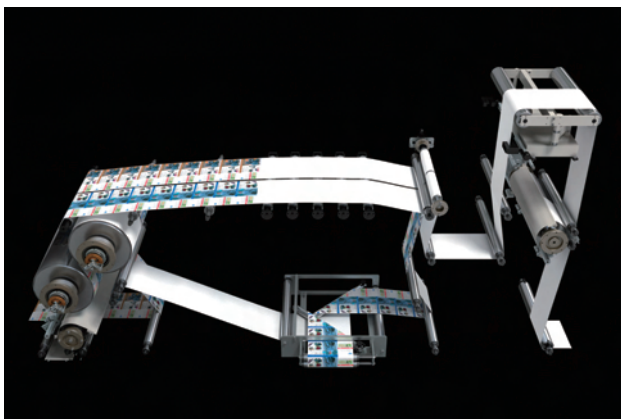
A variety of system setups are available to suit your print outputs and job conditions. The Truepress Jet520 also features a flexible layout that allows it to fit almost any space while accommodating your specific needs in terms of job content and printing volume.

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.



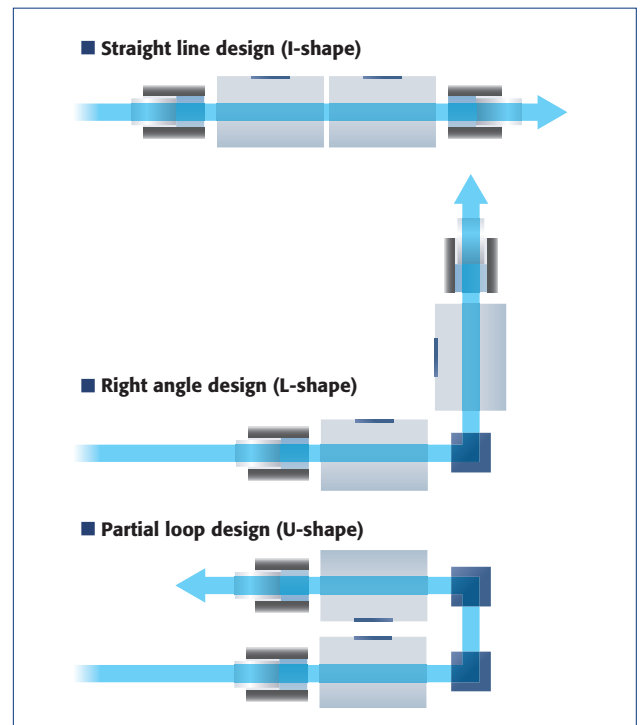
■ Simplex



■ 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.



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.

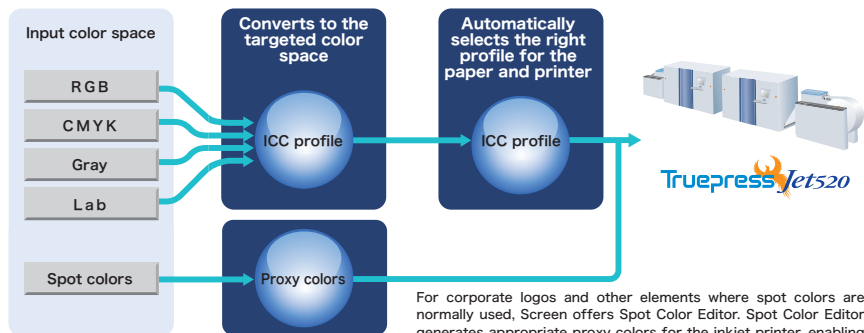
Linked workflow EQUIOS leads the digital printing era

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.



Advanced Color Management System

The EQUIOS Color Management System first converts all the elements in a job to the targeted color space, such as Euro Standard 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.



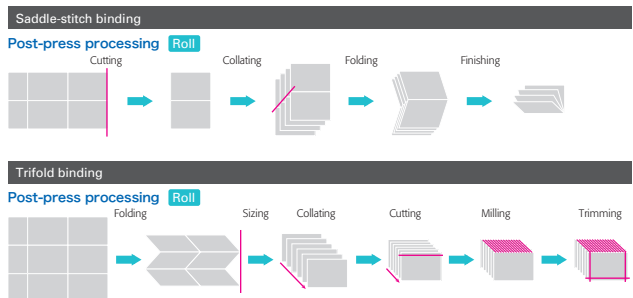
Scalable Load Balancing that maximizes productivity

EQUIOS features a scalable load balancing function designed to ensure optimal performance with the Truepress Jet520 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.

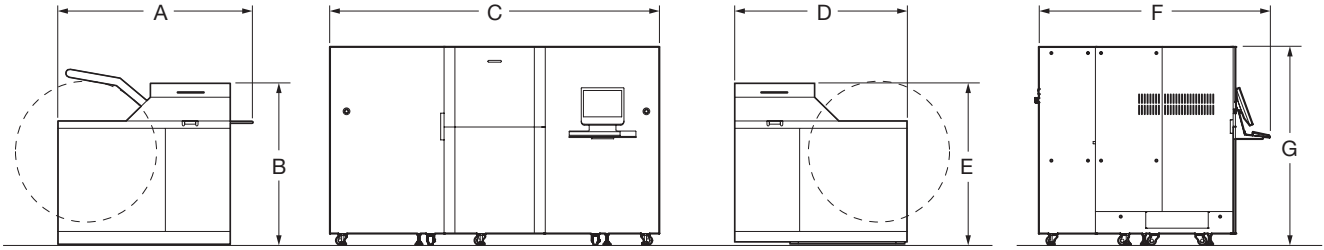
Smart Imposition: optimal impositions, whatever the binding method

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 accurate and 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.



Automatic output of various barcode types (Code 39, Code 128, ITF) is supported as an option. This prevents problems with misordered or missing pages at binding.

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
RIP	EQUIOS
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 (under Screen's conditions)
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) [Simplex], 2,500 kg (5,511 lb) [Single Engine Duplex]
Power source	Printer: Three phase 200 to 240 V, 25 A / 380 to 440 V, 15 A Single phase 200 to 240 V, 15 A Single phase 100 to 240 V, 2 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 Maximum 64 m (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.

www.screen.co.jp/520

For more information, please visit our web site.



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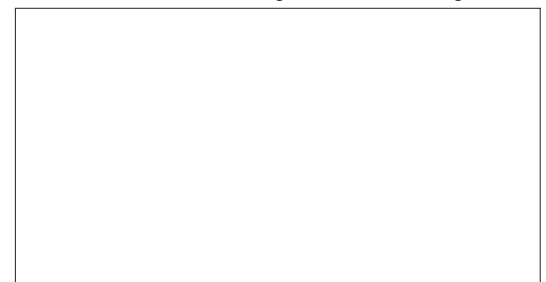
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We reserve the right to alter product design and specifications without prior notice.