SCREEN

CtP Products Handbook

Technology you can rely on

Creating a Future in Print

PlateRite Series

Screen provides an extensive range of CtP solutions renown for high quality, reliability and productivity. The machines available cover every press size that is currently on the market and include B2 (4-page), B1 (8-page) and four different large format solutions up to and including the jumbo presses from Manroland, Goss and KBA. Each machine has a specific set of specifications (see following pages) that impact the plate sizes that can be imaged, the speed that plates can be imaged and the range of automation options that are available. However, there is also a wide range of benefits that are applicable to all Screen platesetters.

Inline press punch will reduce make-ready times and increases the overall profitability

Key to Screen's success in today's competitive CtP market is the comprehensive range of automatic plate handling options that we are able to offer. From a simple plate stacker through to a completely automated model with multiple feed cassettes for long periods of unattended operation, there is a solution to meet every requirement and every budget.

Screen's automation starts with plate loading. On most of our machines, packets of plates can be loaded complete with interleaving paper. The autoloader then detects the interleaf before removing it. The paper is expelled from the machine to reduce the risk of paper dust and prevent the interleaf jamming the platesetter.

Once the interleaf is removed, the plate is picked up from the back. There is never any contact with the emulsion side, this avoids any risk of damage to the image area. As the plate leaves the autoloader, it passes through a set of 'sticky' rollers. This is to remove any last traces of dust before imaging. The plate is now ready to be punched and imaged.

Best cost of ownership CtP

The initial price of a platesetter is only part of the total cost of ownership: you also need to keep in mind any maintenance charges that might be required. Screen's PlateRite series of recorders have proven to be exceptionally reliable machines. This has resulted in one of the total lowest costs of ownership in the industry – one of the reasons why Screen has sold more platesetters than anybody else over the last few years.

High resolution

The PlateRite HD 8900S/E and PlateRite 8600N-Z offers high-resolution 4,000 dpi support. This is perfect for everything from high-resolution art printing to the accurate reproduction of small text sizes like those required for bond and other certificate printing. This function is available for the PlateRite HD 8900S/E and the PlateRite 8600N-Z to output high-quality 4,000 dpi* 3D lenticular printing plates.

4,000 dpi support comes as option for the PlateRite HD 8900S/E.

Advantage of PlateRite Series

Advanced external drum design

The thermal PlateRite series is constructed with a reliable external drum design. This makes it possible for the drum to spin at high speeds with the imaging head positioned close to the surface of the plate. Easy maintenance of the imaging head is another key advantage of this design. Individual laser diodes can be replaced as required (not on GLV).

Inline punching saves hundreds of hours on press

The benefits of unattended operation are obvious, but the potential impact of inline punching should not be underestimated. Screen has pioneered the use of punching inline and our customers have been enjoying the benefits for many years. In addition to the time saved from an operator not having to punch the plates, the real savings are seen once the plates go to the press. Compared to manual punching, the time required for each make-ready can be dramatically reduced as the image area is always in the same place in relation to the punch. This means that once on press, the side lays should never have to be adjusted to get your job in register.

Intelligent auto-balance system

Thanks to the auto-balance system, no manual adjustments are required for drum balance when switching to different plate sizes. All you need to do is select the plate size from the display menu and the auto-balance system automatically optimizes the balance on the recording drum.

Field upgradeable

A benefit that has been introduced to the latest range of platesetters is that output capacity can be upgraded in the field. This same benefit has been extended to most of the platesetters in our range. This means that once you have decided what machine best suits your current needs, you know that the machine can grow with your business - from an entry-level manual machine through to a high productivity fully automated model using the same base engine.

With the breadth of machines on offer, the options available for automatic plate handling and the ability to upgrade productivity in the field, means that no matter what your need, you're sure to find the perfect output unit among the platesetters in Screen's acclaimed PlateRite series.

Regular monitoring of production status from a remote location

Remote monitoring allows users to keep an eye on CtP operating conditions and output history from a remote location, using a web browser or e-mail. E-mails can also be sent automatically to the service center and entered into a database for use in maintenance, repairs, and periodic inspections, ensuring that the CtP recorder is in optimal operating condition at all times.

CtP

Users
• Check system status.
• Review the operation history.

Service center
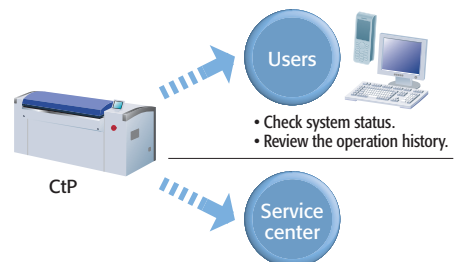
• Create a maintenance and periodic inspection schedule.
• Receive detailed reports regarding errors.

For further details, please consult your Screen representative.

GLV™ Technology

GLV™ stands for 'Grating Light Valve' an innovative new imaging technology designed for applications that require high-speed light modulation. A GLV™ head is made up of hundreds of microscopic reflective ribbons placed over a silicon chip. These ribbons can be moved up or down to either reflect or diffract the imaging laser beam. The benefit of incorporating this latest technology with the 512/1024-channel imaging head is that it greatly increases the amount of data that can be delivered to the plate surface. With this unique combination Screen can attain the type of imaging speeds that are demanded to keep today's large format presses as well as the popular B1 long-perfectors fed with plates.

Specifications	PlateRite Ultima 48000		PlateRite Ultima 40000		PlateRite Ultima 36000			
Model type	SX	S	SX	S	ZX	Z	SX	S
Imaging method	External drum		External drum		External drum			
Light source	GLV1,024	GLV512	GLV1,024	GLV512	GLV1,024 × 2	GLV512 × 2	GLV1,024	GLV512
Media type	Thermal aluminum plate		Thermal aluminum plate		Thermal aluminum plate			
Resolution (dpi)	1,200 / 2,400 / 2,438 / 2,540		1,200 / 2,400 / 2,438 / 2,540		1,200 / 2,400 / 2,438 / 2,540			
Plate size maximum mm	2,900 x 1,350 mm 2 x 1,450 x 1,350 mm		2,280 x 1,600 mm 2 x 1,060 x 1,600 mm		2,100 x 1,600 mm 2 x 1,060 x 1,600 mm		2,100 x 1,600 mm (2 x 1,060 x 1,600 mm)[2]	
Plate size maximum inch	114.1" x 53.1" 2 x 57.0" x 53.1"		89.7" x 62.9" 2 x 41.7" x 62.9"		82.6" x 62.9" 2 x 41.7" x 62.9"		82.6" x 62.9" (2 x 41.7" x 62.9")[2]	
Plate size minimum mm	650 x 550 mm		650 x 550 mm (500 x 550 mm)[2]		650 x 550 mm (500 x 550 mm)[3]			
Plate size minimum inch	25.6" x 21.7"		25.6" x 21.7" (19.7" x 21.7")[2]		25.6" x 21.7" (19.7" x 21.7")[3]			
Throughput (pph)[1]	17 (42)	14 (34)	22 (44)	17 (36)	35 (70)	29 (58)	24 (44)	19 (36)[2]
Plate handling options								
Manual load	Yes, continues load		Yes, continues load		Yes, continues load			
Single cassette loader	SA-L48000 Skid		SA-L40000 Skid		SA-L40000 Skid			
Capacity	600 plates		600 plates		600 plates			
Interleaf removal	Yes		Yes		Yes			
Multi cassette loader	MA-L40000		MA-L40000		MA-L40000			
Capacity	4 x 75 plates		4 x 75 plates		4 x 75 plates			
Interleaf removal	Yes		Yes		Yes			
Inline punching	Up to 10 punches		Up to 10 punches		Up to 10 punches			
Inline to processor	AT-M36000II		AT-M36000II		AT-M36000II			
Workflow								
	1-bit TIFF DTC, Trueflow SE, EQUIOS PT-R		1-bit TIFF DTC, Trueflow SE, EQUIOS PT-R		1-bit TIFF DTC, Trueflow SE, EQUIOS PT-R			

*1. 2,900 x 1,350 mm, at 2,400 dpi (1,030 x 800 mm)

*1. 2,280 x 1,276 mm, at 2,400 dpi (1,030 x 800 mm)
*2. Small size plate support option.

*1. 2,032 x 1,270 mm, at 2,400 dpi (1,030 x 800 mm)
*2. S-type is an option.
*3. Small size plate support option.

For 96 page web press (48 page) **For 80 page web press** (40 page) **Size 8+** (36 page) • **Upgradeable**

PlateRite Ultima 48000

The PlateRite Ultima 48000 can image onto the world's largest plates – plates that are suitable for the large-format web presses expected to dominate the market in the future. The PlateRite Ultima 48000 can also be used to output multiple jobs impositioned on a single plate, increasing efficiency and enabling fast turnaround.

PlateRite Ultima 40000/36000

The PlateRite Ultima 40000 can handle plates up to 2,280 x 1,600 mm in size. It features Screen's unique automated transport system and an inline punching system that supports better registration accuracy and enables faster press make-ready. This results in significantly higher press operating ratios, even when large-format plates are used. Smaller plates can be loaded onto the PlateRite Ultima 40000 in pairs, reducing the number of plate loading operations and increasing production efficiency further. The PlateRite Ultima 36000 can handle plates up to 2,100 x 1,600 mm in size, and can be upgraded to handle 40-A4-page size plates.

PlateRite Ultima 24000

Specifications	ZX	Z	SX	S
Model type	ZX	Z	SX	S
Imaging method	External drum			
Light source	GLV1,024 × 2	GLV512 × 2	GLV1,024	GLV512
Media type	Thermal aluminum plate			
Resolution (dpi)	1,200 / 2,400 / 2,438 / 2,540			
Plate size maximum mm	1,750 x 1,400 mm 2 x 1,060 x 1,600 mm			
Plate size maximum inch	68.8" x 55.1" 2 x 41.7" x 62.9"			
Plate size minimum mm	650 x 550 mm (500 x 550 mm)*³			
Plate size minimum inch	25.6" x 21.7" (19.7" x 21.7")*³			
Throughput (pph)*¹	41 (70)	34 (58)	30 (44)	24 (36)*²
Plate handling options				
Manual load	Yes, continues load			
Single cassette loader	SA-L40000 Skid			
Capacity	600 plates			
Interleaf removal	Yes			
Multi cassette loader	MA-L40000			
Capacity	4 x 75 plates			
Interleaf removal	Yes			
Inline punching	Up to 10 punches			
Inline to processor	AT-M36000II			
Workflow				
	1-bit TIFF DTC, Trueflow SE, EQUIOS PT-R			

*1. 1,448 x 1,143 mm, at 2,400 dpi (1,030 x 800 mm)
*2. S-type is an option.
*3. Small size plate support option.

PlateRite Ultima 16000II

Specifications	Z	S	E
Model type	Z	S	E
Imaging method	External drum		
Light source	GLV512		
Media type	Thermal aluminum plate		
Resolution (dpi)	1,200 / 2,400 / 2,438 / 2,540		
Plate size maximum mm	1,470 x 1,165 mm		
Plate size maximum inch	57.8" x 45.8"		
Plate size minimum mm	650 x 550 mm (450 x 370 mm)*²		
Plate size minimum inch	25.6" x 21.7" (17.8" x 14.6")*²		
Throughput (pph)*¹	31 (39)	25 (32)	17 (20)
Plate handling options			
Manual load	Yes, continues load		
Single cassette loader	—		
Capacity	—		
Interleaf removal	—		
Multi cassette loader	MA-L16000		
Capacity	3 / 6 x 75 plates		
Interleaf removal	Yes		
Inline punching	Up to 10 punches		
Inline to processor	AT-M16000		
Workflow			
	1-bit TIFF DTC, Trueflow SE, EQUIOS PT-R		

*1. 1,448 x 1,143 mm, at 2,400 dpi (1,030 x 800 mm)
*2. Small size plate support option.

Size 7+ (24 page) • Upgradeable

PlateRite Ultima 24000

The PlateRite Ultima 24000 is designed to meet the needs of users of the 7B format, which is popular for sheet-fed and web printing presses. The PlateRite Ultima 24000ZX can output up to 41 plates per hour (for 1,448 x 1,143 mm plates), which gives it the ability to supply plates to multiple printing presses smoothly. It can also handle plates as large as 1,750 x 1,400 mm. An upgrade that enables output suitable for 36- or 40-A4-page plate sizes is also available.

Size 6+ (16 page) • Upgradeable

PlateRite Ultima 16000II

The PlateRite Ultima 16000II can handle plates up to 1,470 x 1,165 mm in size, and is flexible enough to be used in commercial printing applications and the production of books and packaging. All the PlateRite Ultima 16000 II models feature a GLV™ imaging head, and the high-end PlateRite Ultima 16000IIZ boasts a maximum output of 31 plates per hour.

Specifications	PlateRite HD 8900			PlateRite 8600N		PlateRite 8600
Model type	Z	S	E	Z / S	E	SL
Imaging method	External drum			External drum		External drum
Light source	GLV1,024	GLV512		64LD	32LD	64LD
Media type	Thermal aluminum plate			Thermal aluminum plate		Thermal aluminum plate
Resolution (dpi)	1,200 / 2,400 / 2,438 / 2,540	1,200 / 2,400 / 2,438 / 2,540 / 4,000[*2]		1,200 / 2,000 / 2,400 / 2,438 2,540 / (4000 only 8600Z)	1,200 / 2,400 / 2,438 / 2,540	1,200 / 2,400 / 2,438 / 2,540
Plate size maximum mm	1,165 x 950 mm			1,160 x 940 mm		1150 x 940 mm
Plate size maximum inch	45.8" x 37.4"			45.6" x 37"		45.2" x 37"
Plate size minimum mm	304 x 305 mm[*3]			304 x 370 mm		450 x 370 mm (304 x 370 mm)[*2]
Plate size minimum inch	12" x 12.1"[*3]			12" x 14.6"		17.8" x 14.6" (12" x 14.6")[*2]
Throughput (pph)[*1]	67	43	33	23	14	22
Plate handling options						
Manual load	Yes, continues load			Yes, continues load		Yes, continues load
Single cassette loader	SA-L8900			SA-L8800N		SA-L8800N
Capacity	100 plates			100 plates		100 plates
Interleaf removal	Yes			Yes		Yes
Multi cassette loader	MA-L8900			MA-L8800N		MA-L8800N
Capacity	3[*4] x 100 plates			3[*2] x 100 plates		3[*3] x 100 plates
Interleaf removal	Yes			Yes		Yes
Inline punching	Up to 12 punches			Up to 8 punches		Up to 8 punches[*4]
Inline to processor	AT-T8001R / AT-M8001			AT-T8001R / AT-M8001		AT-T8001R/AT-M8001
Workflow						
	1-bit TIFF DTC, Trueflow SE, EQUIOS PT-R			1-bit TIFF DTC, Trueflow SE, EQUIOS PT-R		1-bit TIFF DTC, Trueflow SE, EQUIOS PT-R

*1. 1,030 x 800 mm, at 2,400 dpi *2. Option
*3. Plates wider than 590 mm (23.3") and narrower than 610 mm (24") cannot be used. *4. Available up to 5 cassettes (option)

*1. 1,030 x 800 mm, at 2,400 dpi
*2. Available up to 5 cassettes (option)

*1. 1,030 x 800 mm, at 2,400 dpi *2. Small size plate support option. *3. Available up to 5 cassettes (option). *4. Option (Registration punch is required)

Size B1 (8 page) • Upgradeable

Size B1 (8 page) • Upgradeable

Size B1 (8 page)

PlateRite HD 8900

The high-end PlateRite HD 8900Z features a 1,024-channel imaging head that utilizes GLV™ technology. This enables output of more than 67 plates per hour,* allowing a single PlateRite HD 8900Z to replace multiple CtP recorders in an existing line.

Processing is easier to manage and running costs and liquid waste are lower than ever.

The S and E models also feature a 512-channel imaging head, with respective throughputs of up to 43 and 33 plates per hour.
At 2,400 dpi, with 1,030 x 800 mm (40.5" x 31.5") plates.

PlateRite 8600N

The PlateRite 8600N is Screen's mid-level 8-page CtP recorder. The PlateRite 8600N-E can output up to 14 plates per hour (for 1,030 x 800 mm plates), while the PlateRite 8600N-S and PlateRite 8600N-Z models can output up to 23 plates per hour, which makes these models particularly appealing in terms of cost-performance. The PlateRite 8600N-Z offers a high-resolution 4,000 dpi output option.

PlateRite 8600SL

The new PlateRite 8600SL is an entry-level recorder offering the basic features of the PlateRite 8600N-S and recommended for those looking to get into CtP for the first time. It offers all the productivity required for successful CtP operations, with high-speed output of up to 22 B1-size plates per hour.

Specifications	PlateRite 8600M		PlateRite 8300N		PlateRite 6600	
Model type	S	E	S	E	S	E
Imaging method	External drum		External drum		External drum	
Light source	64LD	32LD	32LD	16LD	64LD	32LD
Media type	Thermal aluminum plate		Thermal aluminum plate		Thermal aluminum plate	
Resolution (dpi)	1,200 / 2,400 / 2,540		1,200 / 2,400 / 2,438 / 2,000 / 2,540 / 4,000[*2]	2,400 / 2,438 / 2,540	1,200 / 2,400 / 2,438 / 2,540	1,200 / 2,400 / 2,438 / 2,540
Plate size maximum mm	1,150 x 940 mm		1,160 x 940 mm		980 x 685 mm	
Plate size maximum inch	45.2" x 37"		45.6" x 37"		38.5" x 26.9"	
Plate size minimum mm	304 x 300 mm[*2]		450 x 370 mm (304 x 370 mm)[*3]		304 x 370 mm	
Plate size minimum inch	12" x 11.9"[*2]		17.8" x 14.6" (12" x 14.6")[*3]		12" x 14.6"	
Throughput (pph)[*1]	20	13	14	8	30	18
Plate handling options						
Manual load	Yes, continues load		Yes, continues load		Yes, continues load	
Single cassette loader	—		SA-L8800N		SA-L6600	
Capacity	—		100 plates		100 plates	
Interleaf removal	No		Yes		Yes	
Multi cassette loader	—		MA-L8800N		MA-L6600	
Capacity	—		3[*4] x 100 plates		3 x 100 plates	
Interleaf removal	—		Yes		Yes	
Inline punching	—		Up to 8 punches		Up to 4 punches	
Inline to processor	—		AT-T8001R/AT-M8001		Built-in bridge	
Workflow						
	1-bit TIFF DTC, Trueflow SE, EQUIOS PT-R		1-bit TIFF DTC, Trueflow SE, EQUIOS PT-R		1-bit TIFF DTC, Trueflow SE, EQUIOS PT-R	

*1. 1,030 x 800 mm, at 2,400 dpi
*2. The width of plate between 570 mm (22.5") and 624 mm (24.5") can not be used.

*1. 1,030 x 800 mm, at 2,400 dpi *2. When outputting at 4,000dpi, confirm output quality before use. *3. Small size plate support option. *4. Available up to 5 cassettes (option)

*1. 724 x 615 mm, at 2,400 dpi

Size B1 (8 page) • Upgradeable

Size B1 (8 page) • Upgradeable

Size B2+ (6 page) • Upgradeable

PlateRite 8600M

The PlateRite 8600M is a semi automatic thermal CtP recorder that combines Screen's unique external drum technology with high-precision optics to enable timely, high-quality plate output. When you use CtP, there is no need for complex processing and intermediate steps such as outputting layout data to film or exposing plates using film, which makes processing much simpler than the traditional platemaking methods of the past. The use of CtP also frees you from concerns about paste-up errors and foreign-matter contamination, while contributing to increased efficiency in both the platemaking and printing processes.

PlateRite 8300N

The PlateRite 8300N-E offers output of eight B1-size plates per hour, and can be upgraded to the faster PlateRite 8300N-S (14 plates per hour). The PlateRite 8300N can also be connected to an autoloader system that loads and unloads plates automatically, for long periods of continuous operation supporting better productivity and higher press operating ratios.

PlateRite 6600

The PlateRite 6600 can image onto a wide range of plate sizes, including plates larger than B2-size that are suitable for use in Ryobi and Harris printing presses.

With a maximum output capacity of 30 plates per hour, the PlateRite 6600 is not only compatible with larger plates, it's also 50% faster than previous Screen B2-size CtP recorders. It also features in-line punching for faster make-ready and superior registration accuracy, as well as the many automated functions users have come to expect from Screen CtP equipment.

Specifications	PlateRite 4300		PlateRite2055 Vi-S
Model type	S	E	—
Imaging method	External drum		Flatbed
Light source	32LD	16LD	Violet laser diode
Media type	Thermal aluminum plate		photo polymer aluminum plates
Resolution (dpi)	1,200 / 2,400 / 2,438 / 2,000 / 2,540 / 4,000*2	2,400 / 2,438 / 2,540	1,200 / 2,400 / 3,000
Plate size maximum mm	830 x 660 mm		754 x 635 mm (Auto) 760 x 635 mm (Semi-auto)
Plate size maximum inch	32.6" x 25.9"		29.6" x 25" (Auto) 29.9" x 25" (Semi-auto)
Plate size minimum mm	324 x 370 mm (304 x 370 mm)*3		450 x 280 mm
Plate size minimum inch	12.8" x 14.6" (12" x 14.6")*3		17.8" x 11.1"
Throughput (pph)*1	21	11	20 (36 at 1200 dpi)
Plate handling options			
Manual load	Yes, continues load		Yes
Single cassette loader	SA-L4300II		included with autoloader
Capacity	100 plates		50 plates
Interleaf removal	Yes		Yes
Multi cassette loader	MA-L4300II		—
Capacity	3 x 100 plates		—
Interleaf removal	Yes		—
Inline punching	Up to 4 punches		Up to 5 punches (2 systems)
Inline to processor	AT-T4000		built-in
Workflow			
	1-bit TIFF DTC, Trueflow SE, EQUIOS PT-R		1-bit TIFF DTC, HQ, Trueflow SE Rite, Trueflow SE

*1. 724 x 615 mm, at 2,400 dpi
*2. When outputting at 4,000 dpi, confirm output quality before use.
*3. Small size plate support option.

*1. 754 x 635 mm, at 2,400 dpi

Size B2+ (4 page) • Upgradeable

PlateRite 4300

The PlateRite 4300 is the leading B2-size (4-page) CtP recorder in the market. The PlateRite 4300E offers output of up to 11 plates per hour, and can be upgraded to the same productivity as the PlateRite 4300S (21 plates per hour). The PlateRite 4300 is also compatible with a multi-cassette autoloader that can load up to 300 plates automatically.

Size B2+ (4 page)

PlateRite 2055Vi-S

The PlateRite 2055Vi-S is an affordably priced B2-format CtP recorder for printing companies that prefer to use visible light plates. With an output capacity of 20 plates per hour and the option of a 50-plate autoloader for continuous plate feeding, the PlateRite 2055Vi-S is the perfect tool for companies catering to the B2-size market.

Specifications	PlateRite FX1524/FX1200		PlateRite FX870II	PlateRite News 2000S+	
Model type	FX1524	FX1200	FX870II	—	
Imaging method	External drum		External drum	External drum	
Light source	64LD		64LD	64LD	
Media type	Flexo digital plates, letterpress digital plates, thermal ablation film		Flexo digital plates, letterpress digital plates, thermal ablation film	Thermal plates	
Resolution (dpi)	2,400 (2,540) / 4,800		2,400 (2,540) / 4,800	1,000 / 1,016 / 1,200 / 1,270	
Plate size maximum mm	1,067 x 1,524 mm	1,067 x 1,200 mm	762 x 870 mm	980 x 685 mm 2 x 460 x 685 mm	
Plate size maximum inch	42" x 60"		34.2" x 30"	38.5" x 26.9" 2 x 18.1" x 26.9"	
Plate size minimum mm	200 x 100 mm		100 x 100 mm	290 x 460 mm	
Plate size minimum inch	7.9" x 4" mm		4" x 4" mm	11.4" x 18.1"	
Throughput (pph)[1]	4 - 6 m² / h		4 - 6 m² / h	49 / 106[1]	
Plate handling options					
Manual load	Yes		Yes	Yes	
Single cassette loader	—		—	SA-L N2000	Semiautomatic loader
Capacity	—		—	100(200)[2] plates	60(120)[2] plates
Interleaf removal	—		—	Yes	No
Multi cassette loader	—		—	MA-L N2000	
Capacity	—		—	2[3] x 100(200)[2] plates	
Interleaf removal	—		—	Yes	
Inline punching	—		—	No	
Inline to processor	—		—	Built-in bridge	
Workflow					
	1-bit TIFF DTC, Trueflow SE Rite, Trueflow SE		1-bit TIFF DTC, Trueflow SE Rite, Trueflow SE	1-bit TIFF DTC, Trueflow SE Rite News, Trueflow SE News	

*1. 320 x 470 mm / 890 x 590, at 1,200 dpi
*2. Numbers in parentheses indicate capacity when dual loading is used. *3. Available up to 3 cassettes (option)

Flexo/Letterpress

PlateRite FX1524/FX1200

The PlateRite FX1524/FX1200 is suitable for a wide range of uses, including the production of labels, flexible packaging, cartons, and corrugated packaging. With its maximum output resolution of 4,800 dpi, the PlateRite FX1524/FX1200 supports the output of remarkably smooth gradations and minimizes the appearance of jaggies and other artifacts.

Flexo/Letterpress

PlateRite FX870II

The PlateRite FX870II are the ideal flexo/letterpress CtP recorder for printing companies that already possess letterpress printing presses but want higher quality output, as well as for companies looking to improve the quality of the labels output from their intermittent letterpress printing presses, offset label printing presses, and flexo combination printing presses. Thanks to its superior halftone dot reproduction, the PlateRite FX870II supports consistently reliable printing results from the highlights to the shadows.

Newspaper (panorama / broadsheet)

PlateRite News 2000S+

The PlateRite News 2000S+ is the CtP recorder for newspaper market. Designed with the aid of Screen's acknowledged expertise in producing fast, reliable thermal devices, the PlateRite News 2000S+ is the ideal unit for the high-speed newspaper production environment.

The format of the PlateRite News 2000S+ is designed for the single web press plate and is ideal for the popular Berliner and Broadsheet formats, which it can image two at a time.
The PlateRite News 2000S+ can easily be incorporated into any newspaper workflow and its output capacity of up to 106 plates an hour, makes it suitable for a wide range of publishers.
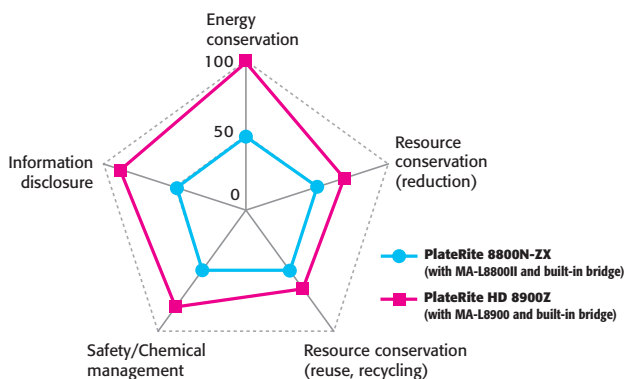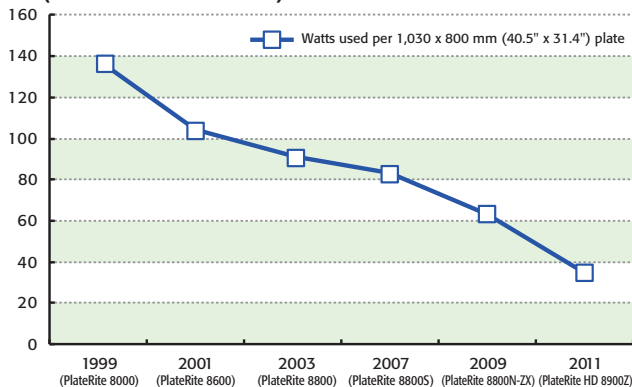
Ecological and economical:
Initiatives for environmental conservation in the printing industry

Founded in the city where the Kyoto Protocol was created, Screen is always working on environmental management. Environmental initiatives are in place throughout the company. For example, there is a Screen train station located within the Hikone Plant, which in conjunction with Japan's extensive network of trains helps encourage employees to travel by rail, rather than by car. Screen has also replaced overland transport using trucks with transport by rail and sea, and uses lightweight corrugated cardboard boxes instead of heavy wooden containers to package its products.

      Screen actively pursues a variety of avenues in its efforts for the environment. For example, the company's CtP products are compatible with chemical-less plates sold by a wide range of manufacturers. These plates eliminate the need to use chemicals and additional electricity for developing after exposure. Screen also offers Spekta hybrid AM/FM screening, which reduces the amount of ink required for printing. In addition, the latest PlateRite HD8900 models for the high-demand A4-8 page size have been developed with even greater emphasis on environmental concerns. With the PlateRite HD8900Z, power consumption during operation has been reduced by up to 41 percent per plate,* while the installation of a new power saving mode decreases power consumption during standby by 88 percent.*

* As power consumption levels are also affected by the operating environment and other external factors, the above values cannot be guaranteed.
  Comparison of the PlateRite HD 8900Z and PlateRite 8800N-ZX when an MA-L/built-in bridge is connected.
  The conditions of a room temperature of 25°C (77°F) and during operation are for a resolution of 2,400 dpi and plate size of 1,030 x 800 mm (40.5" x 31.4").

Trends in PlateRite 8000 series electricity consumption (Screen measurements)

Chemistry Free Technology

A new range of chemistry free plate technologies based on the non-ablative process has a growing market share. These technologies vary slightly but the main theme is to eliminate the need for chemical processing. As the name suggests, Chemistry free processing saves the costs of both chemicals and processors, providing a more stable production process as well as an environmentally safer workplace. The Screen PlateRite thermal platesetter range, both new and old, is the first choice platesetter for using these new plates.

Ink volumes reduced through the use of high-precision halftone dots

Spekta 2 employs the principle of optical dot gain to increase density, which makes it possible to reproduce mid-range colors using lower halftone dot percentages. As a result, Screen's brochures require 15% less ink than brochures output using traditional 175 lpi screening, while print quality increased.

Screen performs an environmental impact assessment as part of the design review process during the development of each new product. This assessment assigns point scores for the product in each of a variety of categories derived from applicable laws and Screen standards.

Note: The overall assessment provided under "Energy conservation" incorporates both reductions in the energy consumed during manufacturing of the product in the factory and reductions in the energy consumed during equipment operation, and provides a numerical, point-based comparison between the current model and previous models.

EQUIOS: Your partner for next-generation printing solutions

EQUIOS

for Offset Printing Workflow

EQUIOS for Offset Printing Workflow promotes greater automation and labor saving in all print-related operation processes and, at the same time, improves the efficiency and centralization of all processing and quality management. It combines Screen's established prepress knowhow with the latest print-on-demand technology under the universal workflow concept.

Process design

Rapid navigation enables the straightforward creation of powerful input/output workflow designs and imposition schemes.

Action Plan

Imposition

Optimized imposition layouts are automatically created based on the number of printed sheets and post-press processing.

Auto Ganging

Progress control

A CtP workflow cockpit means the status of an in-process job can be freely collectively managed on a page, signature, or file basis.

Activity Board

CMS

The latest, optimized settings for individual printing specifications are added to the database, enabling high-precision color management without any specialized knowledge or skill.

Media Admin Tool Database

Feature

Auto Ganging: Increases printing efficiency for small jobs
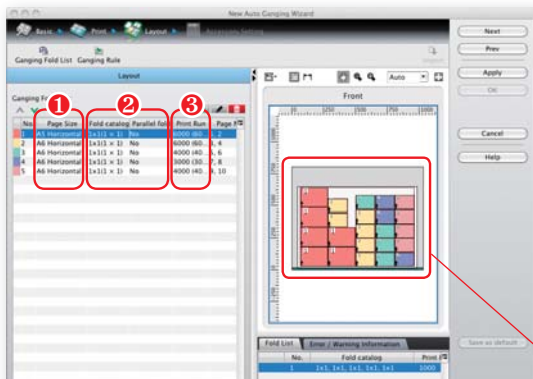
EQUIOS's Auto Ganging automatically performs the most efficient ganging according to page size, signature settings and number of copies. Intelligent plate design that takes into account details down to ease of cutting further increases productivity in small job printing.

❶ Page sizes
❷ Signature settings
❸ Number of copies
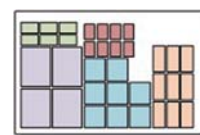
Grouping
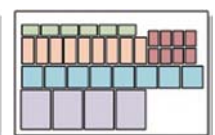
Horizontal direction
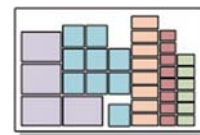
Vertical direction
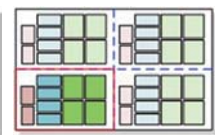
Step and repeat

EQUIOS Universal Workflow

PlateRite

Truepress Jet520ZZ

Truepress JetSX

EQUIOS

Digital Printer

EQUIOS promotes greater automation and labor saving in all print-related operation processes and, at the same time, improves the efficiency and centralization of all processing and quality management. It combines Screen's established prepress knowhow with the latest print-on-demand technology under the universal workflow concept.

EQUIOSNET Partnership Program
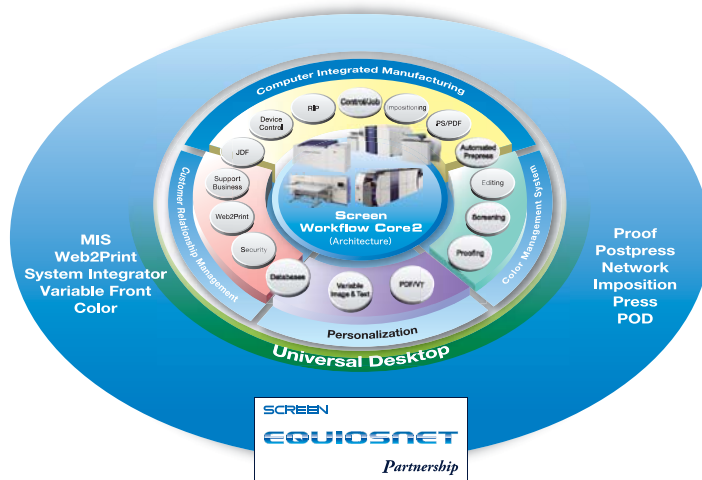
The EQUIOSNET Partnership Program is Screen's strategic workflow collaboration scheme reliable by various vendors. It accelerates end-to-end automation in print production and assures overall benefits.

VEGETABLE OIL INK

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DAINIPPON SCREEN MFG. CO., LTD.

• This brochure was made using SPEKTA 2 screening.
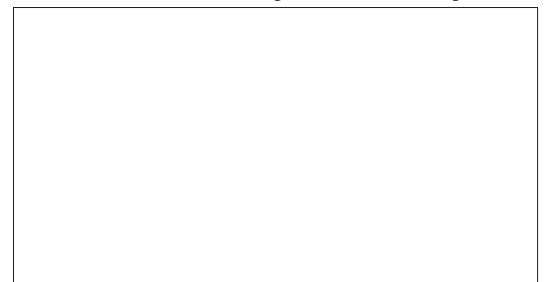
We reserve the right to alter product design and specifications without prior notice.

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