SCREEN
INNOVATION & RELIABILITY

PlateRite 8800

Thermal Plate Recorder

CTP

The PlateRite 8800:
Packed with remarkable new technology

DAINIPPON SCREEN IS PROUD TO ANNOUNCE THE ADDITION OF A NEW 8-UP THERMAL PLATESETTER IN THE PLATERITE 8000 SERIES: THE PLATERITE 8800. THE PLATERITE 8800 IS AN EXTERNAL DRUM THERMAL PLATESETTER THAT FEATURES CUTTING-EDGE CTP TECHNOLOGY AND A NEXT GENERATION IMAGING HEAD. IT OFFERS SUPERIOR, HIGH-PRECISION OUTPUT AND REMARKABLE PRODUCTIVITY.

THE PLATERITE 8800'S NEXT GENERATION IMAGING SYSTEM FEATURES A 512-CHANNEL EXPOSURE HEAD DEVELOPED WITH THE AID OF GLV™ TECHNOLOGY. THIS REMARKABLE IMAGING HEAD CAN EXPOSE EXTREMELY WIDE SWATHES OF THE PLATE WITH EACH ROTATION. THANKS TO THE 512-CHANNEL IMAGING HEAD, THE PLATERITE 8800 CAN OUTPUT UP TO 30 PLATES PER HOUR, WHILE MAINTAINING TERRIFIC OUTPUT QUALITY. A VARIETY OF HIGH-END AUTOMATED SYSTEMS MAKE IT EASY TO GENERATE HIGH QUALITY OUTPUT WHILE PROVIDING TOP PRODUCTIVITY.

IN TODAY'S DIFFICULT MARKET, WHERE CUSTOMERS DEMAND INCREASINGLY LARGE VOLUMES OF PRODUCT IN LESS TIME THAN EVER, A TOOL LIKE THE PLATERITE 8800 IS INDISPENSABLE. THE PLATERITE 8800: A THERMAL PLATE RECORDER THAT BRINGS YOU THE ULTIMATE IN CTP PRODUCTION.

The PlateRite 8800's 512-channel imaging head increases productivity dramatically

The PlateRite 8800's 512-channel imaging head, which features cutting-edge GLV™ technology, enables productivity far beyond the norm, while still maintaining superior quality.

512-channel exposure head for dramatically higher productivity

The newest addition to the PlateRite 8-up thermal platesetter series, the PlateRite 8800, features an exposure head with 512 laser diode channels. This head can image a wider swathe of the plate in a single rotation, enabling output of a remarkable 30 plates per hour at 2400 dpi. The PlateRite 8800 gives you the productivity of the future today!

Quality a cut above the already high standard for thermal platesetters

The PlateRite 8800's 512-channel bar laser features seamless construction that avoids the need to power down the laser beam, so imaging can be carried out efficiently and with no loss of precision. The unusually high number of channels — the highest in the world — enables remarkable productivity, without the need to change drum rotation rates. The high number of channels also makes it possible to create high-precision, extremely minute halftone dot forms. Thanks to its remarkable imaging head, the PlateRite 8800 offers quality a notch above the already high quality users expect from thermal platesetters.

The best of the PlateRite 8000 series

The PlateRite 8800 thermal platesetter features output quality and performance that make it the top unit in the PlateRite 8000 series. And even if you don't need 30 plate per hour output, there's sure to be a PlateRite 8000 series thermal platesetter that will fit into your workflow. Choose between the high-end, unbeatably productive PlateRite 8800, the high-productivity PlateRite 8600, the standard 8000II, and the entry-level PlateRite 8100. Screen's PlateRite 8000 thermal platesetter series covers all the bases.

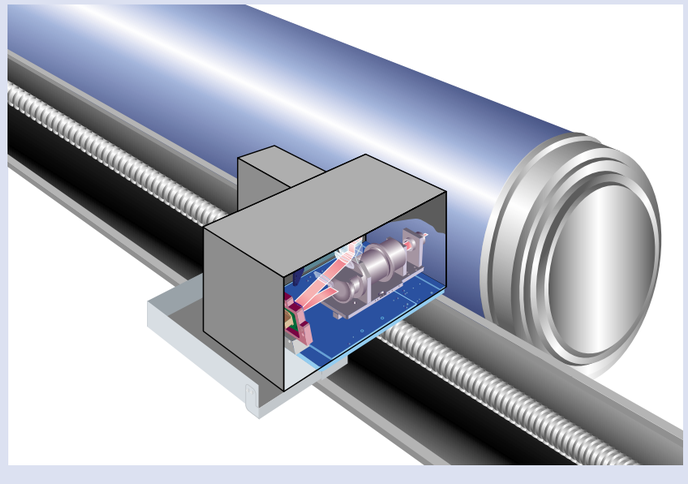
Model	**PlateRite 8800**	PlateRite 8600	PlateRite 8000II	PlateRite 8100
Plates per hour	**30**	20	13	8
Imaging head	**512 channels**	64 channels	32 channels	16 channels
Plate sizes	B3 to B1			

*Productivity may vary with media sensitivity.

What is GLV™ (Grating Light Valve™)?

GLV™ technology features MEMS (micro-electro-mechanical systems) transmission and sensors, and is based around light sources that take advantage of semiconductor technology and light interference methods used in biotechnology. The GLV™ structure consists of an array of parallel ribbons on a semiconductor board, which diffract a single light source into multiple channels of light.

Dainippon Screen has developed a 512-channel imaging head using GLV™ technology. This unique imaging head enables high-precision, high-speed imaging without requiring any reduction in rotation speed. The result is a remarkable jump in output productivity.



A large memory buffer for great productivity

A large memory buffer helps make the PlateRite 8800's remarkable 30 plate per hour productivity possible. This memory buffer enables more efficient imaging by buffering newly received RIP data during imaging, so that imaging can be carried out without interruption. The operator can set the exact number of pages to be buffered.

A variety of plate sizes

The PlateRite 8800 is perfect for press rooms that use multiple plate sizes. It can output plates for most presses in the B3 to B1 range, with a minimum plate size of 450 x 370 mm (17.7" x 14.5") and a maximum plate size of 1,160 x 940 mm (45.6" x 37"), for plates ranging from 0.15 mm (5.9 mil) to 0.4 mm (15.7 mil) thick.*

* 0.4 mm (15.7 mil) thickness support requires an optional blower unit. Supported plate sizes at 0.4 mm (15.7 mil) thickness range from 950 x 550 mm (37.4" x 21.7") to 1,160 x 940 mm (45.6" x 37").

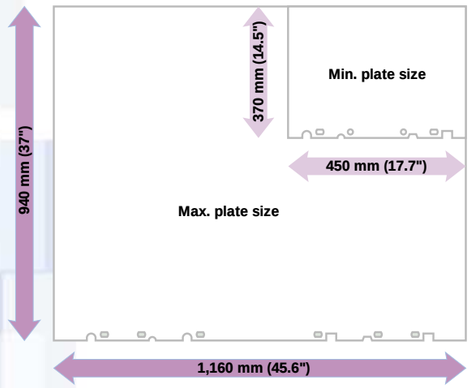
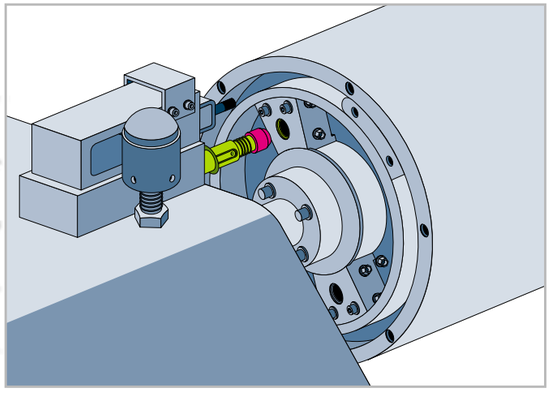


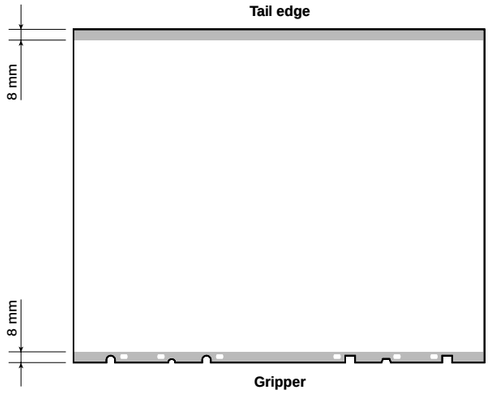
Plate auto-balancing takes the burden off operators

The PlateRite 8800's auto-balancing feature makes it possible to use different sized plates without making any manual adjustments for correct drum balance. The operator simply selects the desired type of plate, and the PlateRite 8800 automatically makes the necessary adjustments to create perfect drum balance for each plate size. The PlateRite 8800 also features separate loading and unloading bays, so that one plate can be readied for loading while another is being exposed.



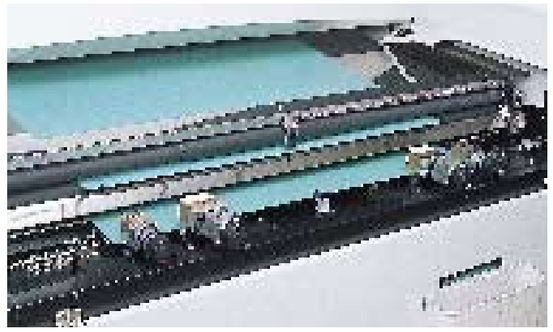
Support for 8-mm clamps

The PlateRite 8800 supports the use of 8-mm clamps. Most web offset presses require smaller clamp sizes to ensure that the maximum imaging area is made available. By supporting 8-mm clamps, the PlateRite 8800 is able to meet the requirements of both web and sheet-fed offset presses.



Automatic inline punching

Screen's automatic inline punching system is the industry leader for enabling perfect register on press. It does this by performing the two types of punching (for press and platesetter registrations) at the same time, immediately before mounting the plate on the drum. This method gives much greater accuracy than either manual or off-line punching. It also eliminates human error and achieves faster press make-ready. Punch blocks from Heidelberg, Komori, Bacher, Protocol, Stoesser, Grapho Metronic, and Screen are available, covering the full range of sizes for all major press types. Up to eight punch blocks can be mounted and selected according to plate size and press type.



Take full advantage of CTP production with these solutions

Trueflow

Intelligent RIP'ing power for PDF workflows

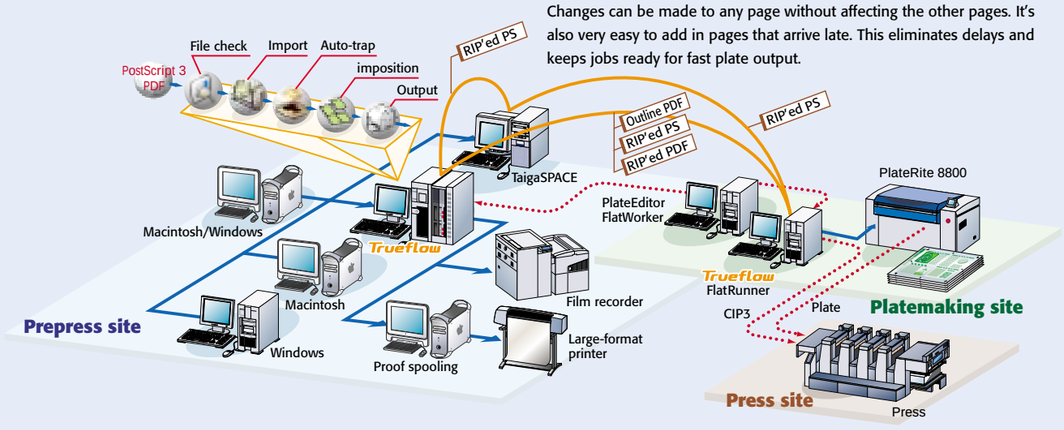
Fast platesetters need the right system to drive them. Screen provides this with Trueflow, an intelligent RIP'ing system that provides the necessary control and speed to match the performance of the PlateRite 8800.

Trueflow is the world's first Web-browser-operated PDF workflow solution. It is an open production system supporting a range of file formats. It can output Outline PDF, RIP'ed PDF, RIP'ed PostScript, and 1-bit TIFF files.

With Trueflow, you are assured of the speed and flexibility you need to efficiently create a high-performance workflow, and can drive that workflow with one of the industry's most advanced workflow solutions.

Built on Adobe technology

Trueflow is built on Adobe's latest interpreter technology, which enables full support for PDF 1.3 and 1.4 files, as well as PostScript 3 files. Screen has used its many years of prepress expertise in workflow systems to build this core into an innovative and reliable PDF workflow system.



Hot folders and job tickets for faster workflow

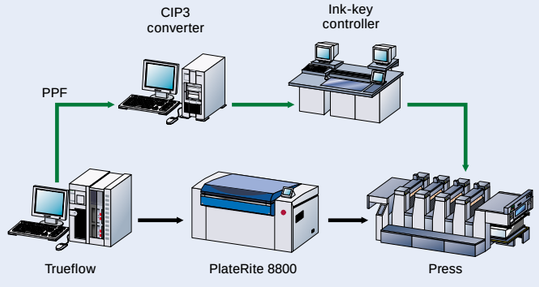
Trueflow brings workflow automation to a new level. Dropping data files into Trueflow's hot folders is all it takes to process jobs automatically. Job tickets can be used to specify high quality trapping or flexible imposition. Trueflow provides your workflow with outstanding late-binding functionality. Changes can be made to any page without affecting the other pages. It's also very easy to add in pages that arrive late. This eliminates delays and keeps jobs ready for fast plate output.

CIP3/CIP4 support

Keeping you on the cutting edge

Screen is a founding member of both CIP3 (Cooperation for Integration of Prepress, Press, and Postpress) and CIP4 (Cooperation for Integration of Processes in Prepress, Press, and Postpress). As part of these initiatives, Screen has worked with major printing press manufacturers to implement innovations such as PPF (Print Production Format). New standards such as PPF are another way to reduce make-ready times and ensure streamlined production.

Screen continues to work in the industry for greater prepress, press, and postpress integration, especially with CIP4's XML-based Job Definition Format (JDF). With Screen, you can be sure that the equipment you use today will be in step with the solutions of tomorrow.



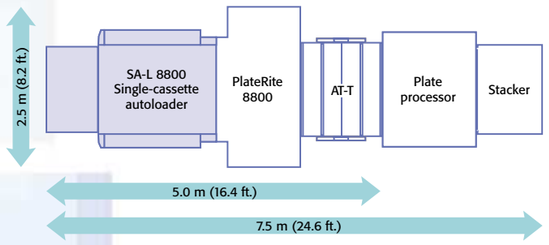
For a fully automated CTP production line, look no further than the PlateRite 8800

The PlateRite 8800, which features Screen's reliable plate-handling technology, is the perfect core for a fully automated plate production line. Simply add the SA-L 8800 or MA-L 8800 plate autoloader and a processor bridge to create a workflow that takes care of everything from plate loading to developing automatically. Once the plate cartridges are loaded into the autoloader, operators can focus on other tasks.

SA-L 8800

Single-cassette autoloader (option)

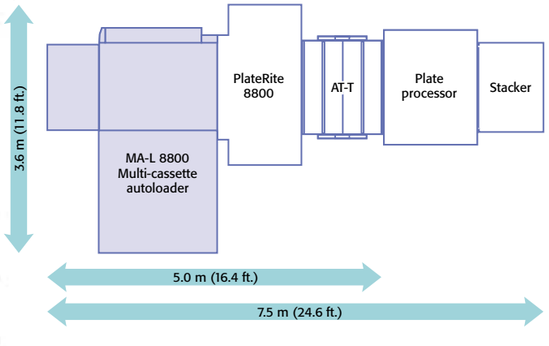
The SA-L8800 single-cassette autoloader can hold up to 100 plates. It automatically removes interleaf paper and sends it to an external collection box just before each plate is loaded. Since it picks up plates from the cassette without making any contact with the sensitive emulsion side of the plates, it eliminates the risk of plate damage. Manual loading is also possible, providing the flexibility to use different sized plates whenever required.



MA-L 8800

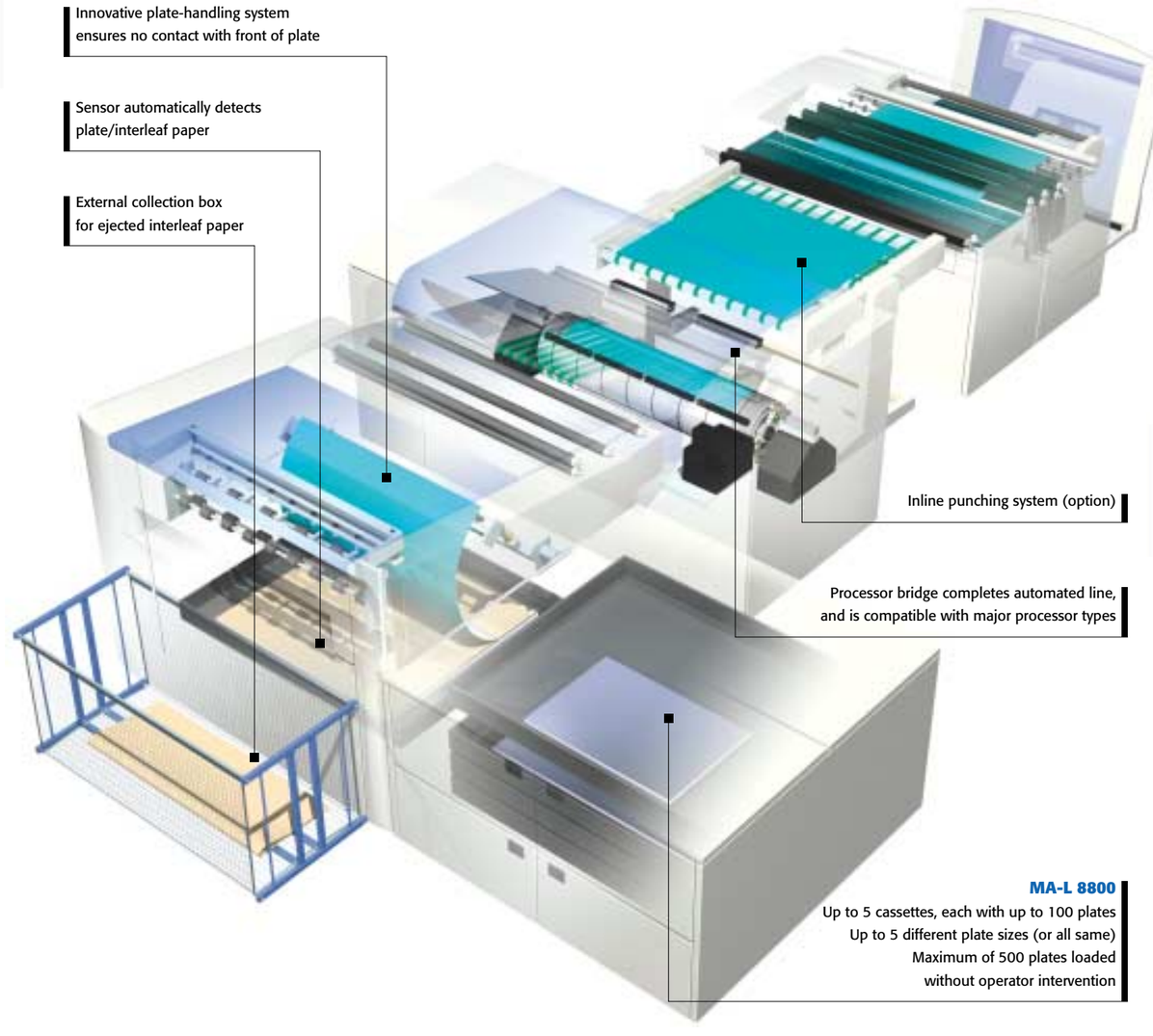
Multi-cassette autoloader (option)

The MA-L 8800 multi-cassette autoloader enables complete automation of the cassette changing and plate loading processes. It is attached as an extension to the single-cassette SA-L 8800 autoloader, and comes standard with three cassettes, each of which holds up to 100 plates. An additional two cassettes can be added as an option. With the optional cassettes, the MA-L 8800 makes it possible to image up to 500 plates of five different sizes without operator intervention.



Processor bridge

The AT-T processor bridge automates plate transport between the PlateRite 8800 and the inline processor. Exposed plates are moved from the PlateRite 8800 onto the bridge, and then conveyed from the bridge to the plate processor.

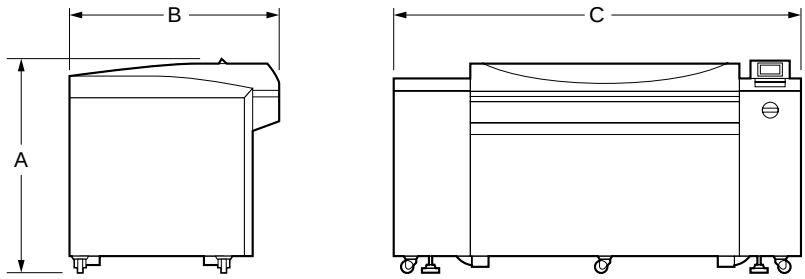


Autoloader specifications

Model name	SA-L 8800	MA-L 8800
Plate transport	Fully automatic loading and automatic interleaf removal	
Cassette capacity	100 plates	100 plates per cassette
No. of cassettes	1 cassette	3 cassettes (standard), additional 2 cassettes (optional)
Cassette transport	–	Fully-automatic (horizontal/vertical)
Cleaning function	Cleaning roller (cleans both sides of plate)	
Dimensions (W x D x H)	1,758 x 2,120 x 1,295 mm (69.2" x 83.5" x 51.0")	3,213 x 2,120 x 1,295 mm (126.5" x 83.5" x 51.0")
Weight	600 kg (1,321 lbs.)	1,250 kg (2,753 lbs.) Plate supply section: 530 kg (1,166 lbs.) Cassette collection section: 720 kg (1,586 lbs.)*
Power	Single phase 200 to 230 V ± 10%, 5 A, 1.0 kW**	
Environment	23°C ± 2°C (73.4°F ± 3.6°F), 40% to 70% relative humidity (non-condensing)	
Standard accessories	Plate cassette and carrier, interleaf paper collection box	3 cassettes, interleaf paper collection box

* Increases by 500 kg (1,102 lbs.) when fully loaded with cassettes and plates. ** Powered by main unit.

Space requirements



Dimensions

	A	B	C
mm	1,295	1,263	2,420
inches	50.9"	49.7"	95.2"

Specifications

Recording system	External drum
Light source	512-channel imaging head (with GLV™ technology)
Plate size*	Maximum 1,160 x 940 mm (45.6" x 37") Minimum 450 x 370 mm (17.7" x 14.5")
Exposure size	Across the drum: Same as plate size Around the drum: 16 mm (0.62") smaller than plate size
Media	Thermal (infrared sensitive) plates
Media thickness	0.15 to 0.3 mm (5.9 to 11.8 mil) Optional 0.4 mm thickness plate support is available.**
Resolutions	1,200/2,400/2,438/2,540 dpi
Repeatability	±5 microns***
Productivity	Max. 30 plates/hr at 2,400 dpi (1,030 x 800 mm/40.5" x 31.4" plates)****
Interface	Fast PIF
Plate transport	Semi-automatic loading (standard) / Fully-automatic loading (optional)
Punch systems (optional)	SCREEN, Heidelberg, Heidelberg·Bacher, Protocol, Komori, Stoesser, Grapho Metronic
Dimensions (W x D x H)	2,420 x 1,263 x 1,295 mm (95.2" x 49.7" x 50.9")
Weight	Approx. 1,150 kg (2,530 lbs.)
Environment	23°C ±2°C (73.4°F ±3.6°F), 40% to 70% relative humidity (non-condensing)
Power requirements	Single phase 200 to 240 V (+6% to –10%), 25.51 A, 5.08 kW*****

* *Plate widths between 590 mm and 610 mm require an optional registration punch block.*

** *Optional 0.4 mm plate thickness support is only available for plate sizes between 950 x 500 mm and 1,160 x 940 mm. Only semi-automatic plate loading is available for 0.4 mm thick plates.*

*** *Over four consecutive exposures on one plate at 23°C (73.4°F) and 60% relative humidity.*

**** *Output speed may vary depending on the sensitivity of the media and clamp size selection.*

***** *Includes power requirements of SA-L, MA-L, AT-T, and blower unit.*

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