SCREEN

OUTPUT

PlateRite 8000II/8600

Thermal Plate Recorder

The versatility and performance you need for your pressroom

Why is thermal computer-to-plate (CTP) technology the system of choice for so many successful companies? There's no doubt about thermal CTP's reliable high-quality output. It is unrivalled for its superb sharp dots. Whenever quality is crucial, the natural choice is thermal. Its consistency for long run lengths and easy daylight handling are also important for many printers. And the bottom line is always about keeping the presses running.

The PlateRite 8000II and PlateRite 8600 are state-of-the-art thermal CTP recorders. They deliver the versatility and productivity you need to keep your presses running. And they can do this for any plate format from B3 to B1 size.

Both also offer optional inline plate punching for perfect on-press register and faster makereadies, as well as Screen's acclaimed autoloader options for unattended plate loading. If you like the idea of running your pressroom at full capacity, you'll love the PlateRite 8000II/8600.

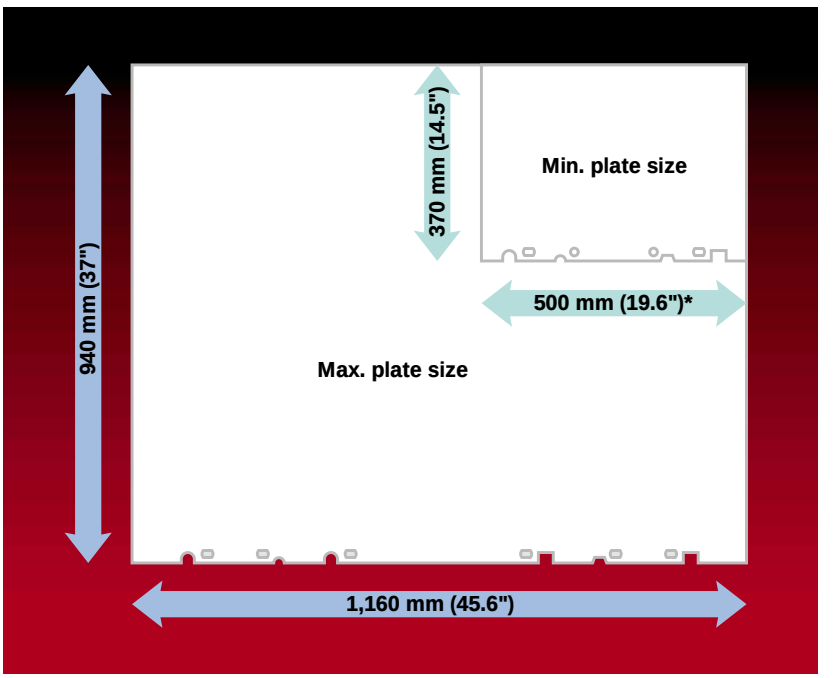
Fast, reliable thermal CTP output

Thermal plates are well known for their consistency and quality. And with the thermal PlateRite series, you can output them fast. When imaging 1030 x 800 mm (40.6” x 31.5”) plates at 2400 dpi, the PlateRite 8000II can output 13 plates per hour. Or, if you need extra speed, the PlateRite 8600 will comfortably run at 20 plates per hour. Both platesetters are supported by Screen’s full range of automation options.

Model	PlateRite 8000II	PlateRite 8600
Plates per hour	13	20
Imaging head	32 channels	64 channels
Plate sizes	B3 to B1	

Run your pressroom at full capacity

There’s no better way to use the full capacity of your pressroom than to achieve high plate output with reliable thermal plates. And the PlateRite 8000II/8600 can do this even for pressrooms that use multiple plate sizes. Both models can output plates for most presses in the B3 to B1 range. The minimum plate size is 500 x 370 mm (19.6" x 14.5")* and the maximum is 1,160 x 940 mm (45.6" x 37"). They can handle plates as thin as 0.15 mm (5.9 mil) and as thick as 0.3 mm (11.8 mil). If you need to output plates for multiple presses in this range, you owe it to yourself to look at the PlateRite 8000II/8600.

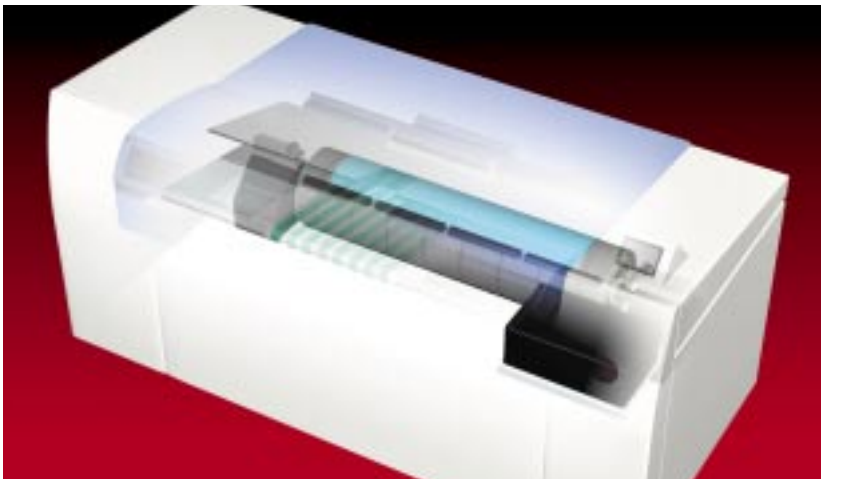


* If manually loaded, even smaller plates can be used in the PlateRite 8000II. Minimum 450 x 370 mm (17.7" x 14.5").

Reap the benefits of
the PlateRite 8000II/8600's proven,
reliable construction

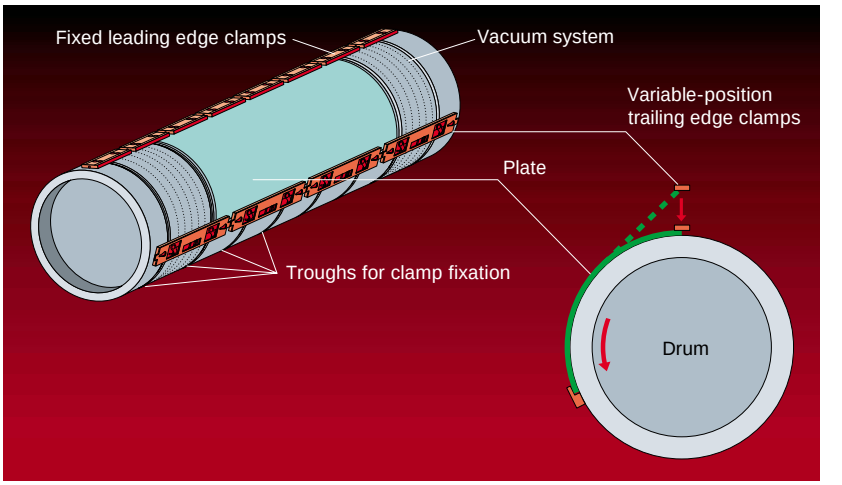
Advanced external drum design

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.



State-of-the-art plate-clamping system

The PlateRite 8000II/8600 features an advanced automatic plate-clamping system. A powerful vacuum-clamping system works in combination with secure leading edge and trailing edge clamps to provide outstanding reliability. This ensures consistent imaging quality and fast makeready times.

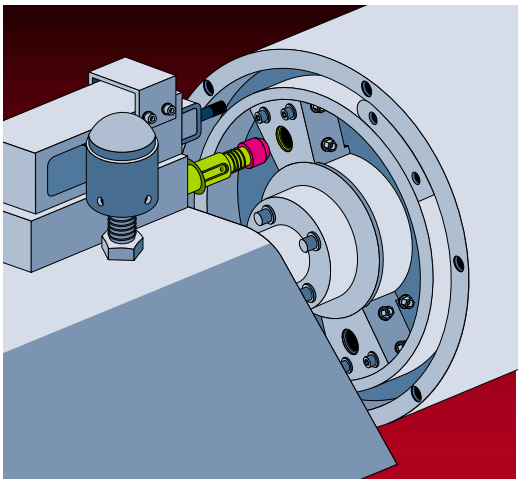


Compatible with 8-mm clamps

The PlateRite 8000II/8600 supports the use of 8-mm clamps as well as common 12-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 8000II/8600 is able to cover the requirements of both web and sheet offset presses.

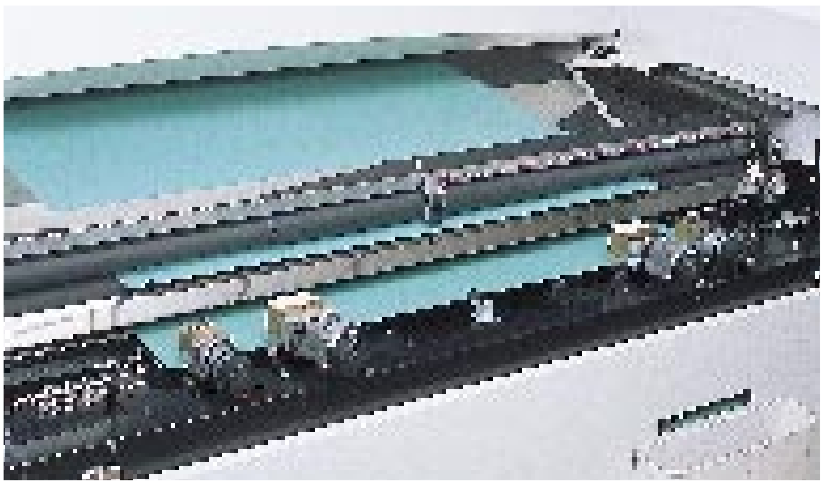
Intelligent auto-balance system

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



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 compared with either manual or off-line punching. It also eliminates human error and achieves faster press makeready. Up to eight punch blocks can be mounted and selected according to plate size and press type.



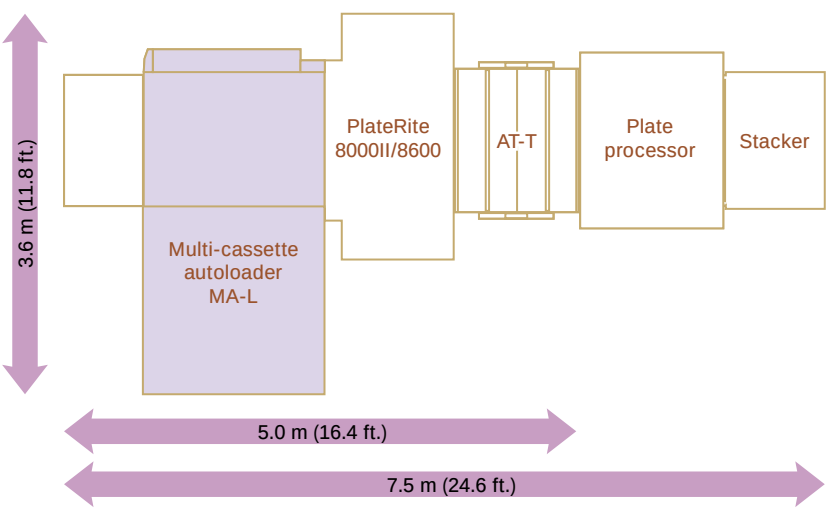
If automated plate production is part of your plan for CTP success, the PlateRite 8000II/8600 has what you're looking for

Multi-cassette autoloader (option)

The MA-L multi-cassette autoloader enables complete automation in the process of cassette changing and plate loading. It is attached as an extension to the single-cassette autoloader. It comes with three cassettes as standard, each cassette holding up to 100 plates. An additional two cassettes are optional. This makes it possible to image up to 500 plates of five different sizes without operator intervention.

Plate transport	Fully automatic loading and automatic interleaf removal
Cassette capacity	100 plates per cassette
No. of cassettes	3 cassettes (standard), additional 2 cassettes (optional)
Cassette transport	Fully-automatic (horizontal/vertical)
Cleaning function	Cleaning roller (cleans both surfaces of plates)
Cassette changeover	2 minutes (between 1st and 5th cassette)
Dimensions (W x D x H)	1,806 mm x 3,213 mm x 1,295 mm (71.1" x 126.5" x 50.9") Plate supply section : 1,758 mm x 2,120 mm x 1,295 mm (69.2" x 83.5" x 51.0") Cassette collection section : 1,521 mm x 1,521 mm x 855mm (59.9" x 59.9" x 33.7")
Weight	1,250 kg (2,753 lb.) Plate supply section : 530 kg (1,166 lb.) Cassette collection section : 720 kg (1,586 lb.)*
Power	Single phase 200 to 230V ± 10%, 5A 1.0kW **
Environment	23˚C ± 2˚C (73.4˚F ± 3˚F), 40 to 70% (non-condensing)
Standard accessories	3 cassettes, interleaf paper collection box
Options	Additional plate cassettes (with cassette trays and drive motors)

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



Single-cassette autoloader (option)

The SA-L 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. No contact is made with the sensitive emulsion side of the plate at any stage of the transport line, eliminating the risk of damage to the plate. Manual loading is also possible, providing the flexibility to use different sized plates whenever required.

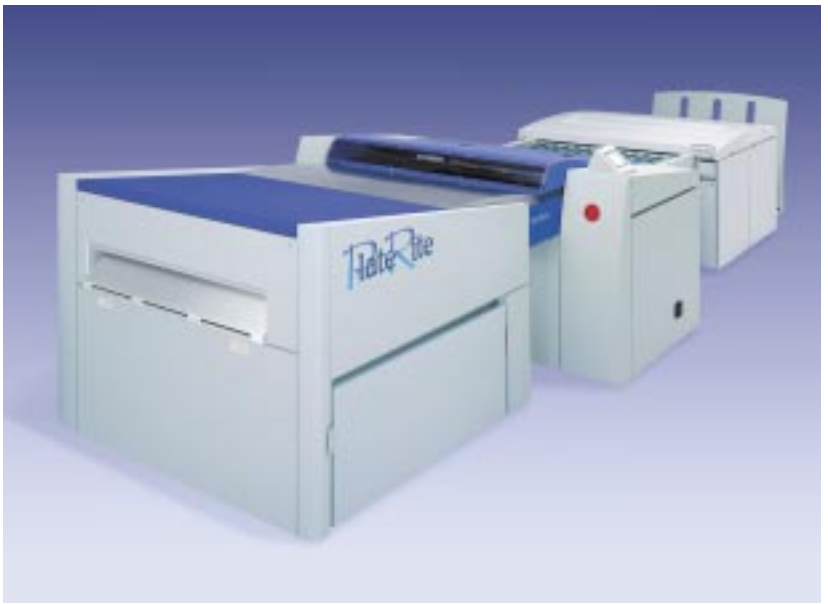
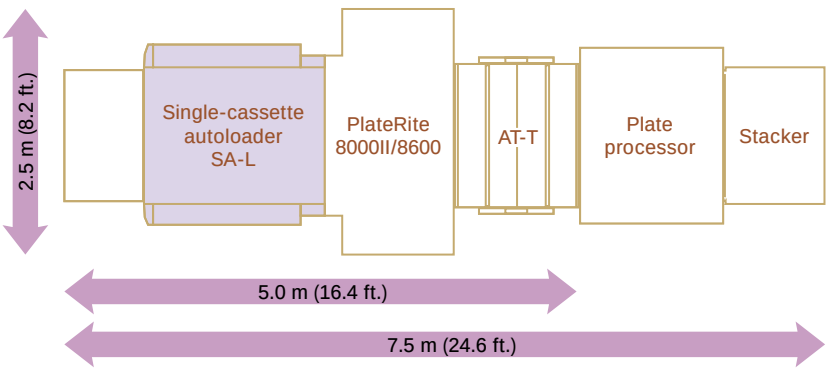


Plate transport	Fully automatic loading and automatic interleaf removal
Cassette capacity	100 plates
Cleaning function	Cleaning roller (cleans both surfaces of plates)
Dimensions (W x D x H)	1,806 mm x 1,758 mm x 1,295 mm (71.1" x 69.2" x 51.0")
Weight	600 kg (1,321 lb.)
Power	Single phase 200 to 230V ± 10%, 5A 1.0kW *
Environment	23˚C ± 2˚C (73.4˚F ± 3.6˚F), 40 to 70% (non-condensing)
Upgrade paths	Manual to SA-L or MA-L; SA-L to MA-L
Standard accessories	Plate cassette and carrier Interleaf paper collection box
Options	Additional plate cassettes and carriers (with cassette dust covers)

* Powered by main unit



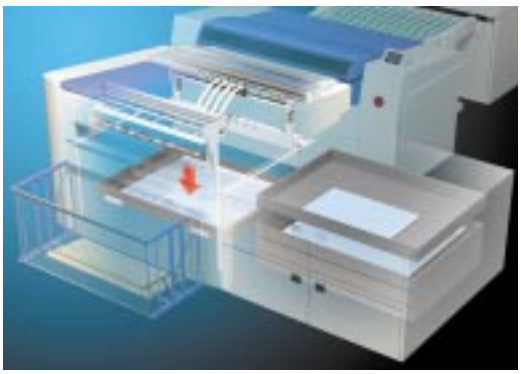
Processor bridge

The AT-T processor bridge automates plate transport between the PlateRite 8000II/8600 and the inline processor. Exposed plates are moved from the PlateRite onto the bridge. From the bridge, the plates can then be conveyed to the plate processor.

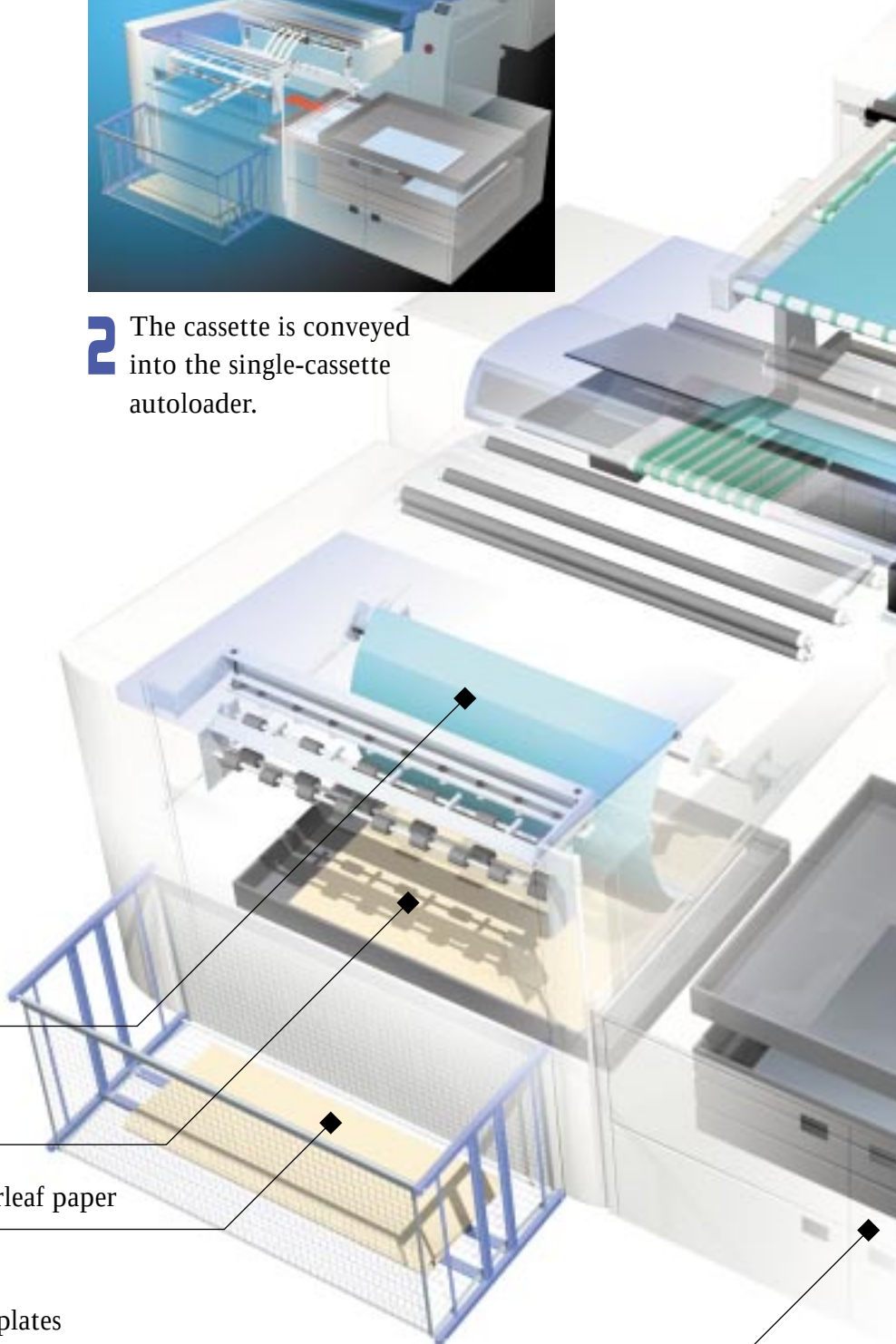
Multi-cassette loading

1 The lifting unit moves to the same level as the cassette that holds the selected plate type.

2 The cassette is conveyed into the single-cassette autoloader.



3 The cassette is lifted to the loading position.

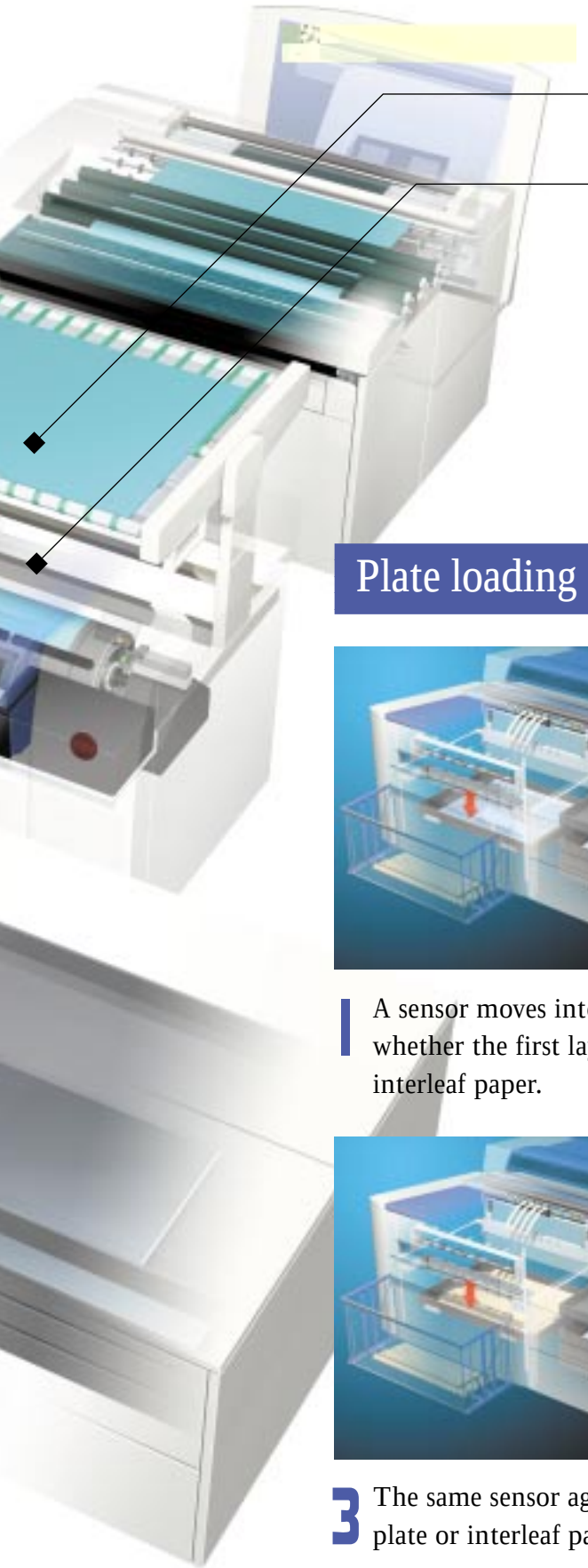


Innovative plate-handling system ensures no contact with front of plate

Sensor automatically detects plate/interleaf paper

External collection box for ejected interleaf paper

MA-L
Up to 5 cassettes, each with up to 100 plates
Up to 5 different plate sizes (or all same)
Maximum 500 plates loaded without operator intervention

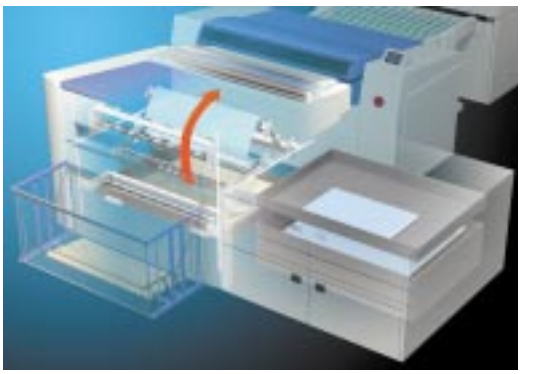


Processor bridge completes automated line, compatible with major processor types

Inline punching system (option)

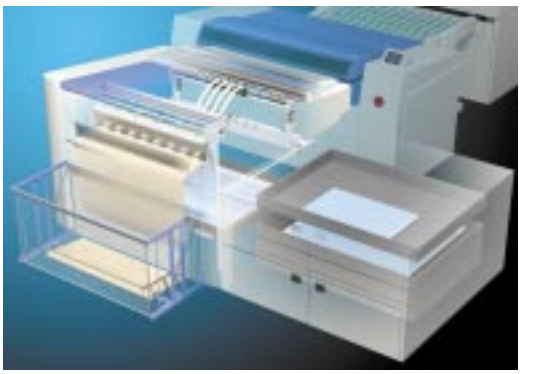
Plate loading

1 A sensor moves into place to detect whether the first layer is a plate or interleaf paper.



2 Suction pads grip the backside of the plate (no contact is made with the front) and it is loaded inside the PlateRite.

3 The same sensor again detects for plate or interleaf paper.



4 The interleaf paper is lifted away and ejected to an external collection box.

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 enables the control and speed required to match the performance of the PlateRite 8000II/8600.

Trueflow is the world's first Web browser-operated PDF workflow solution. It is designed as 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 can be sure of the speed and flexibility you need to efficiently create a high-performance workflow. You can drive your workflow with one of the industry's most advanced workflow solutions.

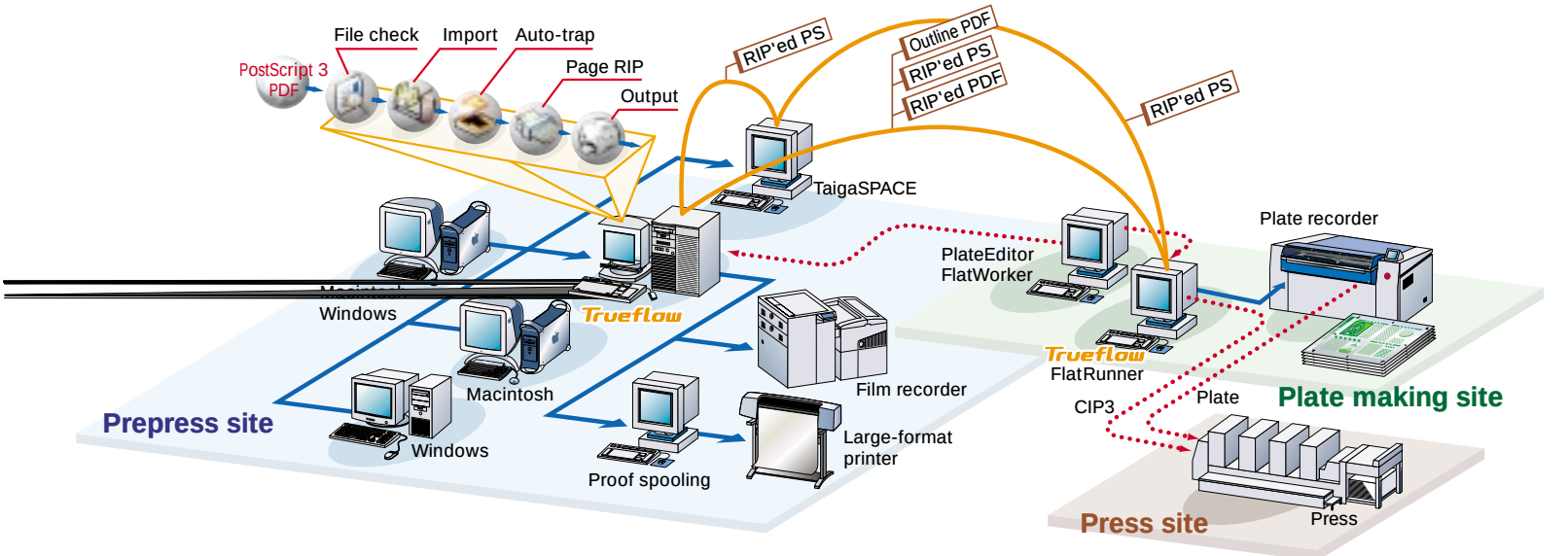
Built on Adobe technology

Trueflow is built on Adobe's latest interpreter technology to enable full support for PDF 1.3 and 1.4, and

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

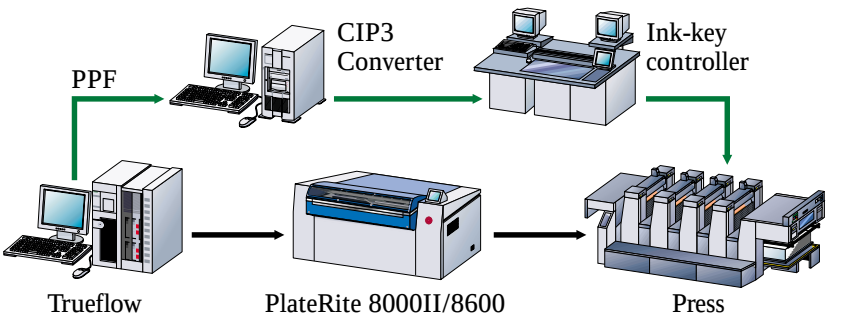
Trueflow brings workflow automation to a new level. Dropping data files into Trueflow's hot folders is all it takes to process jobs automatically. Job tickets can be used to specify high quality trapping or flexible imposition. Trueflow can provide your workflow with outstanding late-binding functionality. 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

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 works with major printing press manufacturers to implement innovations such as PPF (Print Production Format). Implementing solutions such as PPF is another way to reduce makeready times and ensure streamlined production.

Screen continues to work in the industry for further 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.

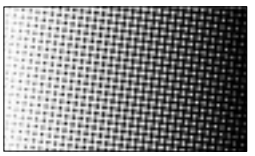


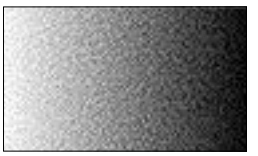
SPEKTA

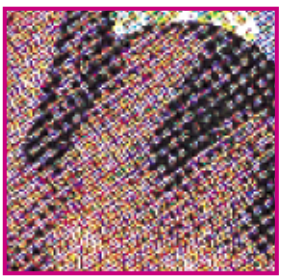
AM/FM hybrid screening

The PlateRite 8000II/8600 supports Spekta screening. Spekta combines the strengths of both conventional AM screening methods and advanced FM (stochastic) screening. This makes it possible to produce extraordinary quality with ordinary screen rulings.

All the dots in Spekta screens are at least slightly randomized so that moiré and visible rosette patterns can never occur. And by applying FM screening methods to highlights and shadow areas, Spekta produces breathtaking detail and color completely free of jagged edges and broken lines. Spekta screening and the PlateRite 8000II/8600 make an unbeatable combination.


AM screening


SPEKTA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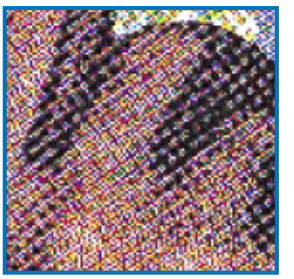
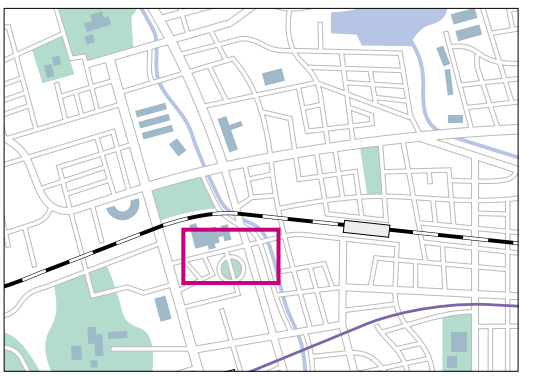
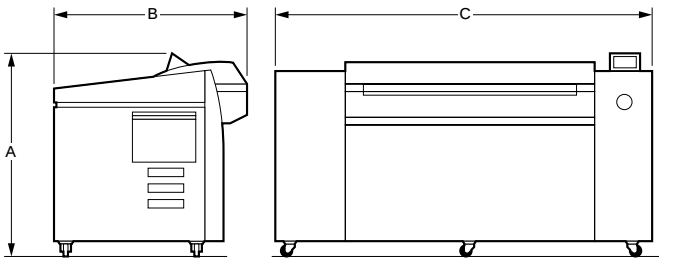

AM screening


SPEKTA


AM screening



Space requirements



Dimensions

	A	B	C
mm	1,285	1,295	2,420
inches	50.5"	50.9"	95.2"

PlateRite 8000II/8600 specifications

Model name	PT-R8000II	PT-R8600
Recording system	External drum	
Light source	32-channel infrared laser diodes	64-channel infrared laser diodes
Plate size	Maximum 1,160 mm x 940 mm (45.6" x 37") Minimum 500 mm x 370 mm (19.6" x 14.5")*	
Exposure size	Maximum 1,160 mm x 924 mm (45.6" x 36.3") Minimum 500 mm x 354 mm (19.6" x 13.9")**	
Across the drum	Same as plate size	
Around the drum	Plate size less 16 mm (0.62") or 24 mm (0.94")**	
Media	Thermal (infrared sensitive) plates	
Media thickness	0.15 mm to 0.3 mm (5.9 mil to 11.8 mil)	
Resolutions	1,200/2,000/2,400/4,000 dpi	
Repeatability	±5 microns***	
Productivity	13 plates/hr at 2,400 dpi (1,030 mm x 800 mm/40.5" x 31.4" plates)****	20 plates/hr at 2,400 dpi (1,030 mm 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, Protocol, Komori, and others	
Dimensions (W x D x H)	2,420 mm x 1,295 mm x 1,285 mm (95.2" x 50.9" x 50.5")	
Weight	Approx. 1,150 kg (2,530 lb.)	
Environment	23˚C ±2˚C (73.4˚F ±3.6˚F), 40% to 70% relative humidity (non-condensing)	
Power requirements	Single phase 200 V to 230 V, 25 A, 4.0 kW*****	Single phase 200 V to 230 V, 35 A, 5.0 kW*****

* If manually loaded, even smaller plates can be used in the PlateRite 8000 II. Minimum 450 x 370 mm (17.7" x 14.5").
** Use of 8-mm clamps results in 16-mm reduction of exposure size. Use of 12-mm clamps results in 24-mm reduction.
Maximum drum speed of 600 rpm for 8-mm clamps or for plates smaller than 650 mm x 550 mm (25.5" x 1.6").
*** 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 selection of clamp size.
***** Also covers power requirements of SA-L, MA-L, AT-T, & blower unit.

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Internet web site http://www.screen.co.jp/

• This brochure was made using SPEKTA screening.
• Printed on recycled paper.

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