

SCREEN
ADVANCING THE FUTURE OF PRINT

& Graphtech Group Corporation

PlateRite 8800II
Thermal Plate Recorder

CTP



The PlateRite 8800II: Packed with remarkable new technology

The ultimate in performance, this B1 size PlateRite delivers exceptionally high quality and flexibility. Incorporating the latest GLV™ imaging head the PlateRite 8800II is designed for the high productivity printer. With the ability to image plate sizes from A3 to B1 size the 8800II is the ultimate multi purpose platesetter.

The PlateRite 8800II offers a high speed option (optional accessory) that enables the unit to operate at maximum efficiency, increasing productivity from the standard 30 plates per hour to a remarkable 35 plates per hour (productivity may vary depending on the sensitivity of the plates used).

The PlateRite 8800II'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 8800II 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 8800II is indispensable. The PlateRite 8800II: a thermal plate recorder that brings you the ultimate in CTP production.



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

The PlateRite 8800II'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 8800II, 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 8800II gives you the productivity of the future today!

Quality a cut above the already high standard for thermal platesetters

The PlateRite 8800II'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 8800II sets a standard that is a notch above the already high quality users expect from thermal platesetters.

The best of the PlateRite 8000 series

The PlateRite 8800II 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 8800II, 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 8800II	PlateRite 8600	PlateRite 8000II	PlateRite 8100
Plates per hour	30 35**	20	13	8
Imaging head	512 channels	64 channels	32 channels	16 channels
Plate sizes	B3 to B1			

* Productivity may vary with media sensitivity.

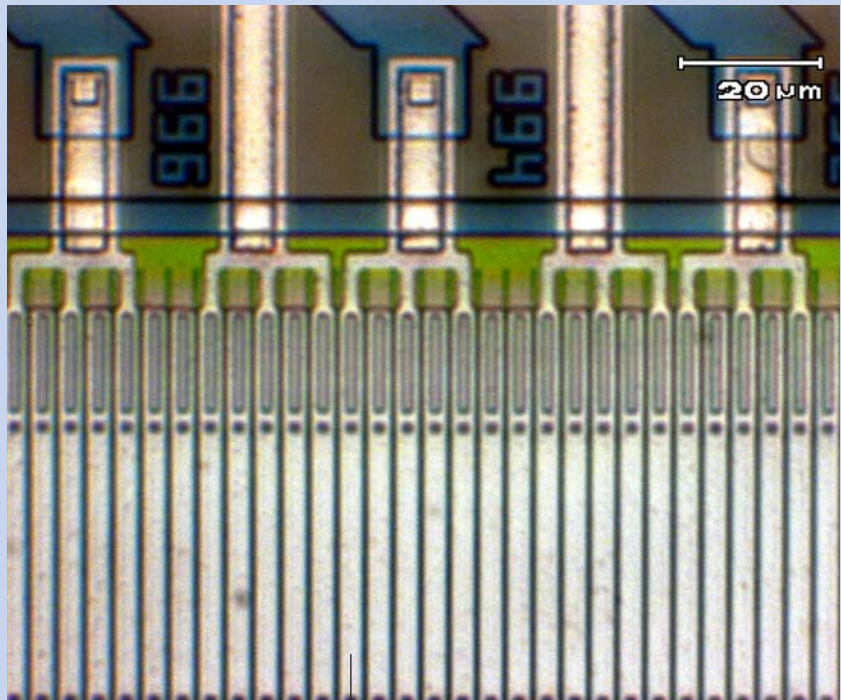
** With high speed option

Imaging head with GLV™ and high-power laser

GLV™ stands for "grating light valve" and employs the same production process as that used in semiconductors. A GLV™ is made up of thousands 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 that is targeted upon them and thus simultaneously turn ON and OFF an extremely high number of optical channels.

Dainippon Screen utilizes the laser control technology that it has cultivated over the years to apply a high-power laser on the GLV™ with extremely high precision, making it possible to simultaneously control 512 channels of light.

As a result, the width of the area that can be imaged with each rotation of the drum is dramatically increased and high productivity is attained. This combination of a high-power laser and GLV™ delivers sharp clear halftones and is the core technology built into the PlateRite Ultima 24000, a thermal platesetter that answers the growing demands of our clients.



Reflective ribbon (4µm)

A large memory buffer for great productivity

A large memory buffer helps make the PlateRite 8800II'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.

Suitable for a wide range of plate sizes

The PlateRite 8800II offers standard support for plate sizes between 450 x 370 mm (GTO size) and 1,160 x 940 mm, with minimum 324 x 370 mm plate size support available as a factory option. It can handle plate thicknesses ranging from 0.15 to 0.3 mm (0.4 mm thickness support is also available as a separate option).

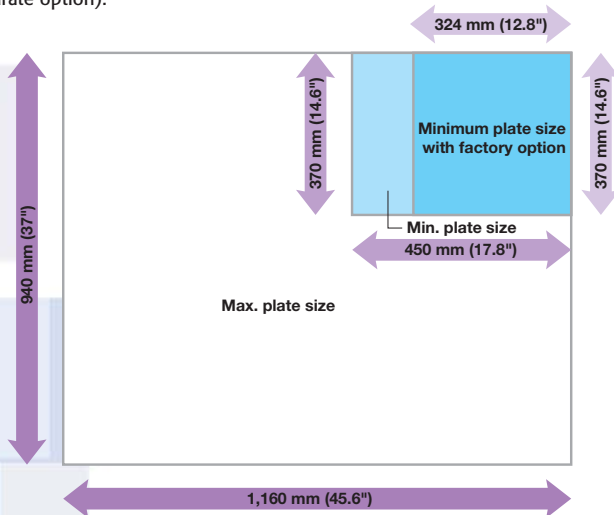
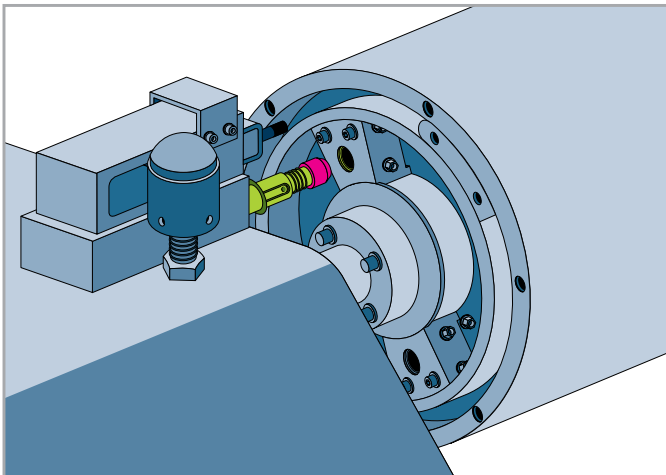


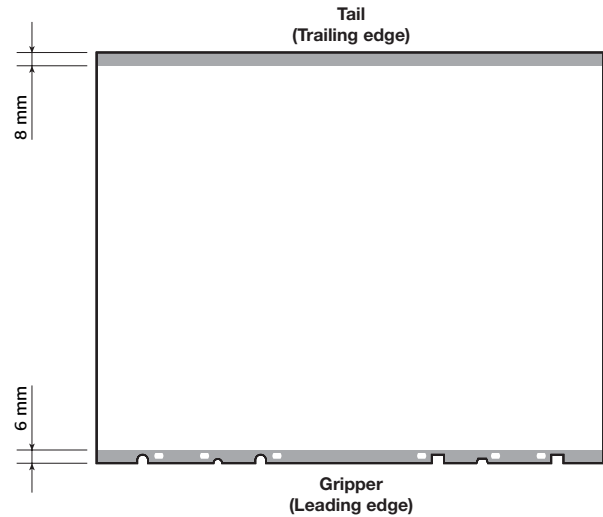
Plate auto-balancing takes the burden off operators

The PlateRite 8800II'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 8800II automatically makes the necessary adjustments to create perfect drum balance for each plate size. The PlateRite 8800II also features separate loading and unloading bays, so that one plate can be readied for loading while another is being exposed.



Support for 6-mm and 8-mm clamps

The PlateRite 8800II supports the use of 6-mm clamps in leading edge and 8-mm clamps in trailing edge. Most web offset presses require smaller clamp sizes to ensure that the maximum imaging area is made available. By supporting 6-mm and 8-mm clamps, the PlateRite 8800II is able to meet the requirements of both web and sheet-fed offset presses.



Achieving very high registration accuracy by an Automatic Inline Punching System.

PlateRite 8800II features an automatic inline punching system that helps enable perfect register on press. Plates are punched by this automatic inline punching system immediately before loading to the drum, and by registering the plates using punched holes and registration pins on the drum, the plates will be placed always in the same position irrespective of the variation of the plate size and square-ness, and constantly achieve very high registration accuracy.

By adding optional press punch blocks (up to 8 punch blocks can be mounted and selected according to plate sizes and press types), imaged plates can be loaded straight on to the press. This eliminates any further manual steps, ensures high registration accuracy and creates the foundation for perfect results on press. This whole process shortens press make ready time dramatically and massively improves the efficiency of the whole operation.



Take full advantage of CTP production with Trueflow 3

Trueflow 3

A fully JDF-compliant PDF workflow system

Fast platesetters need the right system to drive them. Screen provides this with Trueflow 3, a fully JDF-compliant PDF workflow system that enables the control and speed required to match the performance of the PlateRite 8800II.

Trueflow 3 is designed to drive flexible and highly automated computer-to-plate (CTP) production and to manage a JDF-based operating environment. Using JDF-based Job tickets, Trueflow 3 integrates everything from incoming job handling to prepress, proofing, and output for CTP.

Trueflow 3 incorporates the latest Adobe PDF interpreter, and can accept standard PDF 1.4/1.5 and PostScript data files, as well as supporting JDF ticket based workflow technologies for automated print production. Trueflow 3 automation for output-ready jobs covers every step of your production workflow, including preflight, overprint, automated trapping, imposition, multiple format output, and CIP3 PPF/CIP4 JDF.

High-quality screening library

Trueflow 3 supports Screen's extensive screening library, including the innovative Spekta AM/FM hybrid screening, high-quality FM Randot X screening, and AM high frequency screening. This complete screening library offers printers the ultimate in choice, quality, and reliability.

A fully JDF-enabled end-to-end print production workflow solution

Trueflow 3, a fully JDF-compliant PDF workflow system is the core of Trueflownet, Screen's latest innovative JDF-based print business solution.

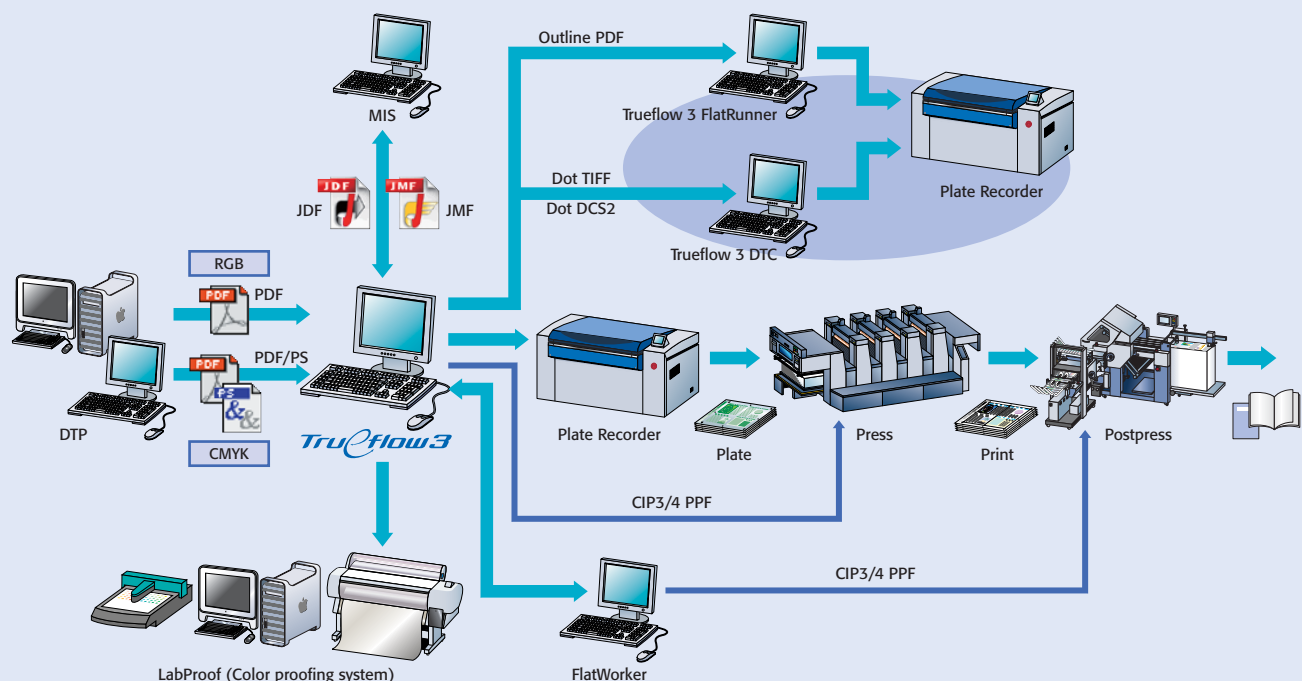
Trueflow 3 makes it possible for you to build an advanced process automation workflow for CTP production, from MIS to press and postpress processing. Trueflow 3 can generate JDF automatic processing job tickets based on information from a JDF-enabled MIS job ordering system and feed job status and processing results back to the MIS. It makes it easy for you to create a fully JDF-enabled end-to-end print production management workflow.

CIP3/CIP4 support

Trueflow 3 outputs PPF files that comply with CIP3/4 standards. These files, which use prepress data to streamline downstream processes, dramatically reduce the work involved in setting up PPF-compatible printing presses by offering automated ink key control. PPF files can also be set up to include information for postpress devices such as binding, cutting, and folding equipment. Trueflow 3 offers all the process integration advantages of CIP3/CIP4 support.

Remote-site operations

With Trueflow 3, you can create quality-assured screened Outline PDF or Dot TIFF files for delivery to a remote site for proofing or output. Trueflow 3 offers remote operation solutions such as Trueflow 3 FlatRunner and Trueflow Dot Tiff Controller (DTC). Trueflow 3 FlatRunner functions as an output station for Trueflow/Trueflow 3, and DTC can accept Dot TIFF files and send them to the desired output device.



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

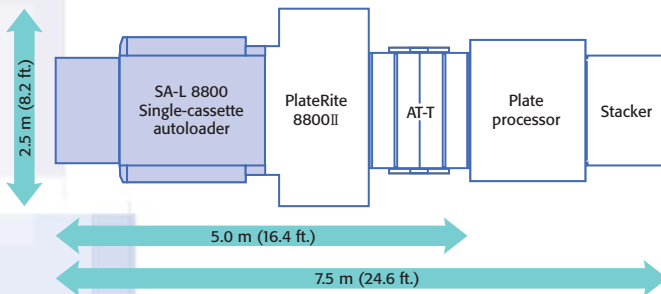
The PlateRite 8800II, which features Screen's reliable plate-handling technology, is the perfect core for a fully automated plate production line. Simply add the SA-L 8800 or MA-L 8800 plate autoloader and a processor bridge to create a workflow that

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)

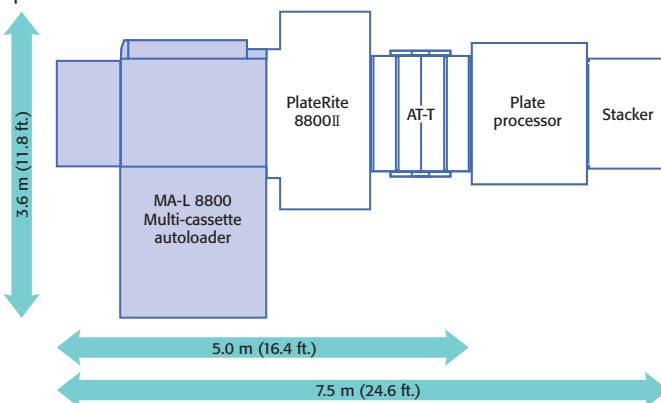
The SA-L8800 single-cassette autoloader can hold up to 100 plates. It automatically removes interleaf paper and sends it to an external collection box just before each plate is loaded. Since it picks up plates from the cassette without making any contact with the sensitive emulsion side of the plates, 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

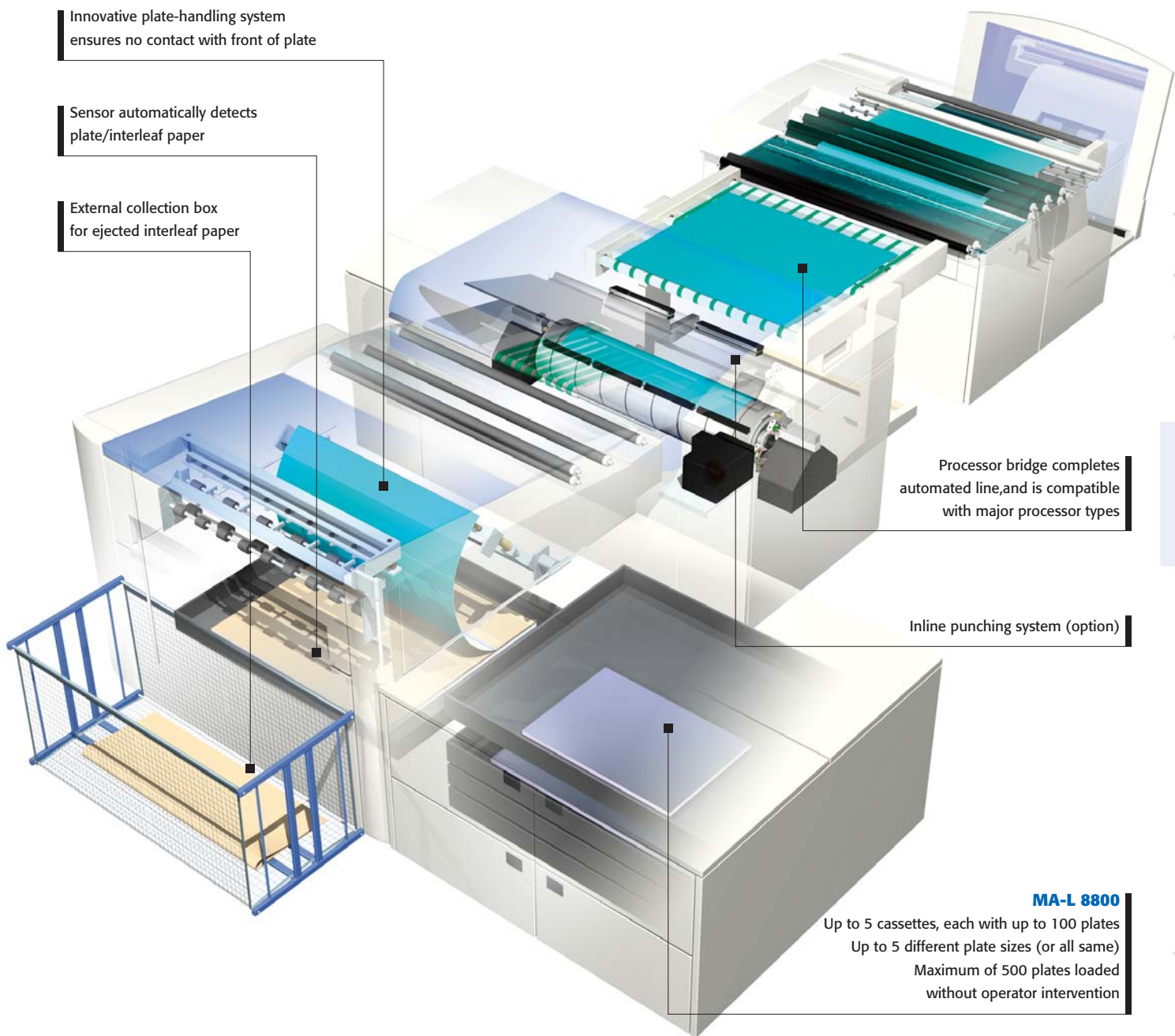
Multi-cassette autoloader (option)

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 8800II and the inline processor. Exposed plates are moved from the PlateRite 8800II onto the bridge, and then conveyed from the bridge to the plate processor.

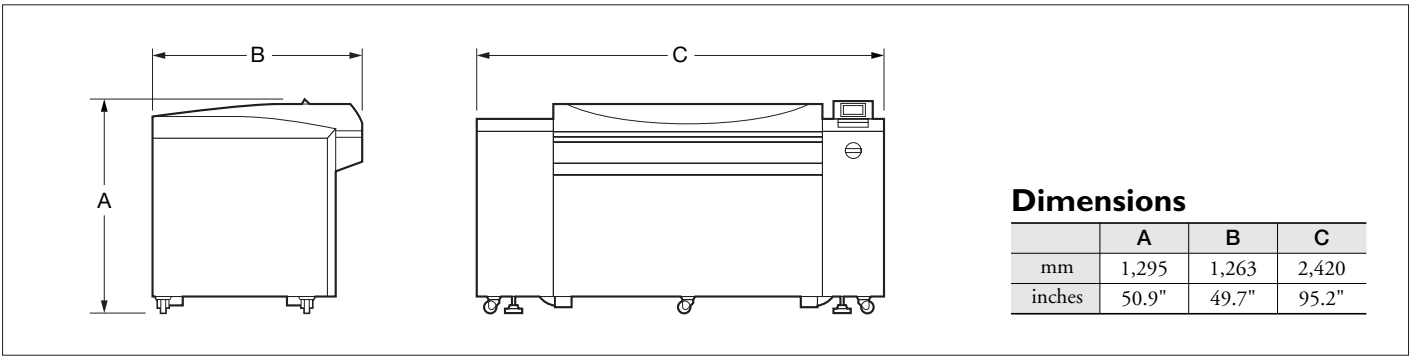


Autoloader specifications

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



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 (17.8" x 14.6") (Minimum plate size 324 x 370 mm [12.8" x 14.6"] with factory option)
Exposure size	Across the drum: Same as plate size Around the drum: 14 mm (0.55") 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	Maximum 1,160 x 926 mm (45.6" x 36.4") / Minimum 450 x 356 mm (17.8" x 14.1") (Minimum exposure size 324 x 356 mm [12.8" x 14.1"] with factory option) Standard: 30 plates/hr (1,030 x 800 mm [40.5" x 31.4"] plates, at 2,400 dpi)**** With high-speed option attached: 35 plates/hour (1,030 x 800 mm [40.5" x 31.4"] plates, at 2,400 dpi) ****
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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