SCREEN

PlateRite 8000

Thermal Plate Recorder

Productive
Automated
Elegant

Not if or when, but which .

Now Dainippon Screen's expertise in external drum recorders and precision optical systems converge to bring you a new thermal CTP recorder with superior output speeds. Make the move to thermal with a full range of high-powered functions that deliver versatility with high-productivity—up to 12 plates* per hour at 2,400 dpi, including punching.

* 1,031 x 800 mm (40.6" x 31.5")

Four standard resolution settings handle a wide range of jobs. An innovative automatic drum balancing system enables the PlateRite 8000 to adapt precisely to various plate sizes. And with the largest maximum media size in its class, PlateRite 8000 outputs plates for most 4-up and 8-up presses. Separate slots for plate input and output, boost productivity even further.

PlateRite 8000 features

- The fastest thermal plate output speeds available.
- Auto-balance, enabling recording of different sized plates with no manual adjustment.
- Four adjustable resolution levels to fit a wide range of jobs.
- A small footprint and elegant design.
- Separate slots for plate input and output increase productivity.

The perfect recorder for thermal

PlateRite 8000 is the perfect recorder to reap all the benefits of thermal imaging.

Reap the thermal advantage with PlateRite 8000

While visible-light CTP requires a dark room or special processing, thermal plates are imaged with heat rather than light so they can be handled under yellow or ultraviolet-filtered white light. PlateRite 8000's advanced optical and clamping system images thermal plates with superior productivity, versatility and ease of use. The exposure head supports a wide range of resolutions from 1,200 to 4,000 dpi, which support high quality, high precision output. Its advanced plate securing and auto-balance features allow for extremely fast rotation speeds and high productivity. And PlateRite 8000's ease of use, automation and user friendly interface make it a snap to use.

At your command

With its advanced automation, PlateRite 8000 requires minimal operator attention, and the degree of automation is scalable to fit user needs.

Auto-balance to fit different plate sizes

The PlateRite 8000 is designed to fit smoothly into your workflow. Auto-balance enables recording of different sized plates with no manual adjustment. All you do is input or select the type of plate you want to use and the PlateRite 8000 automatically makes the necessary adjustments to create perfect drum balance for each plate size you use. It can handle a wide variety of plate sizes, from 550 x 650mm (21.7" x 25.6") all the way up to 940 x 1,160 mm (37" x 45.6"), making it easy to tailor plate output to the job at hand.
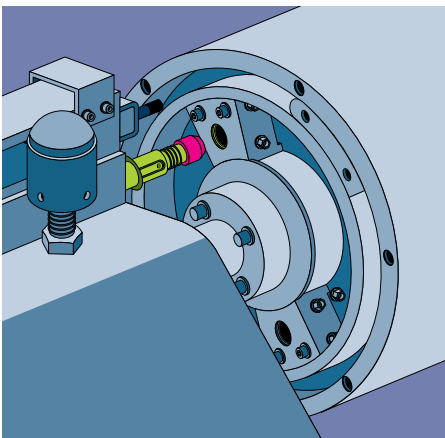
Automatic loading and unloading options

The PlateRite 8000 can be configured for fully automatic, continuous operation with the optional SA-L8000 single auto-loader and AT-T8000 processor bridge, and plates can still be loaded manually. One cassette can hold up to 100 plates. The single auto-loader can be upgraded to a multi-cassette auto-loader (under development), which can hold up to five plate cassettes.

Sceen's automatic plate loaders feature an interleaf removal system. The system automatically routes paper to the disposal area, and plates to the platesetter. Since plates are vacuum-gripped from the back for transport, there is no risk of scratching.
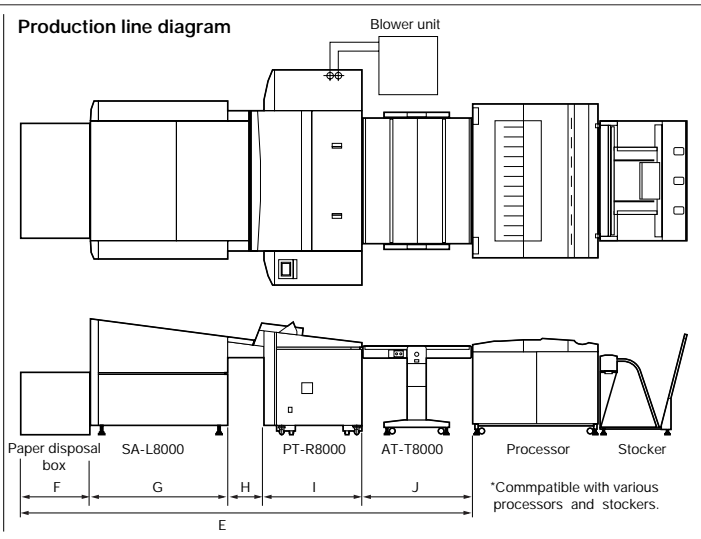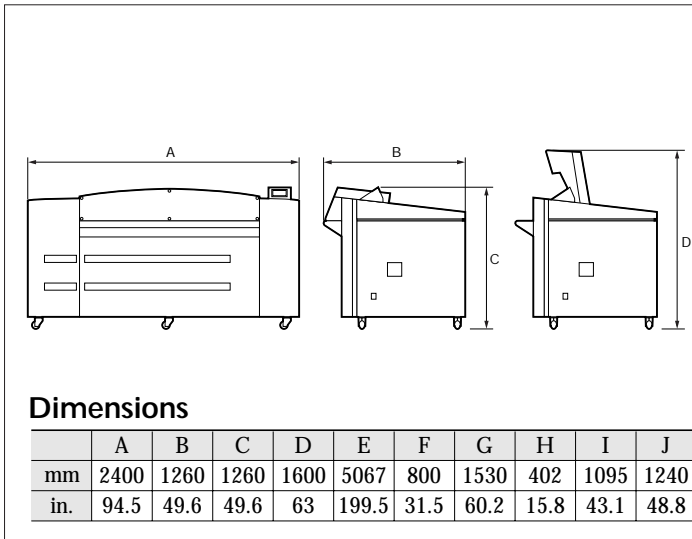
Automatic internal punch

The PlateRite 8000 can even punch your plates for you just before imaging, with your choice of optional internal punch block systems that provide exceptional repeatability. You can mount six punch blocks and select punches based on plate size and press type. A variety of suitable punches are available. The PlateRite 8000 can change between two punch configurations automatically as required by the automatic media settings.

Space requirements

Production line diagram

Paper disposal box   SA-L8000   PT-R8000   AT-T8000   Processor   Stocker

*Commpatible with various processors and stockers.

Dimensions

	A	B	C	D	E	F	G	H	I	J
mm	2400	1260	1260	1600	5067	800	1530	402	1095	1240
in.	94.5	49.6	49.6	63	199.5	31.5	60.2	15.8	43.1	48.8

PlateRite 8000 specifications

Model name	PT-R8000
Recording system	External drum
Light source	32-channel infrared laser diodes 1W/1 ch
Plate size	Maximum 940 x 1160 mm (37.0" x 45.6")
	Minimum 550 x 650 mm (21.7" x 25.6")
Exposure size	Maximum 910 x 1160 mm (35.8" x45.6")
	Minimum 520 x 650 mm (20.5" x 25.6")
Media	Thermal (830 nm infrared sensitive) plates
Media thickness	0.2 - 0.3 mm (7.9 - 11.8 mil.)
Resolution	1,200/2,000/2,400/4,000 dpi
Repeatability	± 5 micrometers (± 0.2 mil.)*
Productivity	12 plates/hr. at 2,400 dpi *
Imaging time	3.4 minutes for a B1 plate at 2,400 dpi **
Interface	Fast PIF
Plate transport	Semi-automatic loading (standard)
	Fully-automatic loading (optional)
Punch (optional)	DS, Heidelberg, Protocol, Komori, and others
Dimensions	2,400 mm W x 1,260 mm D x 1,260 mm H
	(94.5" x 49.6" x 49.6")
Weight	1,000g (2,200lbs.)
Environment	23 ± 2°C (73.4 ± 3.6°F), 50 - 70% RH (no condensation)
Power requirements	Single phase 200 - 230V 4.0 kW
Options	Single Auto-loader, Processor bridge,
	Multi-cassette unit (in development)

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

** Output speed may vary depending on the sensitivity of the media.

SA-L 8000 Single auto-loader specifications

Plate transport	Fully automatic loading and automatic interleaf removal
Cassette capacity	100 plates
Cleaning function	Cleaning roller (cleans both surfaces of plates)
Productivity	11 plates/hr. (1030 x 800 mm) at 2,400 dpi,
	including punching
Dimensions	1,758 mm W x 2,120 mm D x 1,295 mm H
	(69.2" x 83.5" x 51.0")
Weight	530 kg (1,166 lbs.)
Power	Single phase 200 - 230V +/- 10% 1kW 5A
Environment	23 ± 2 °C (73.4 ± 3.6 oF), 40 - 70% (no condensation)
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).

AT-T 8000 Processor bridge specifications

Transport speed	At input: 500-6500 mm/min. (19.7-255.9"/min.)
	At output: 500-4000 mm/min. (19.7-157.5"/min.)
Height variability	920 mm ± 60 mm
Dimensions	1,210 mm W x 1,533 mm D x 1,015 mm H
	(47.6" x 60.4" x 40.0")
Weight	125 kg (275 lbs.)
Power	Single phase 200 - 230V ± 10%, 1kW 1A

DAINIPPON SCREEN MFG. CO., LTD.

• Printed on recycled paper.

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

Comprehensive digital workflow solutions

Job management

DTP layout data

Job creation
Trapping, OPI
TIFF output
Imposition
RIP to disk

Color transparencies
/film input

TaigaSPACE

Imposition
Plate output
Dot gain control

CIP3 output

Plate output

Various other
data formats

Press
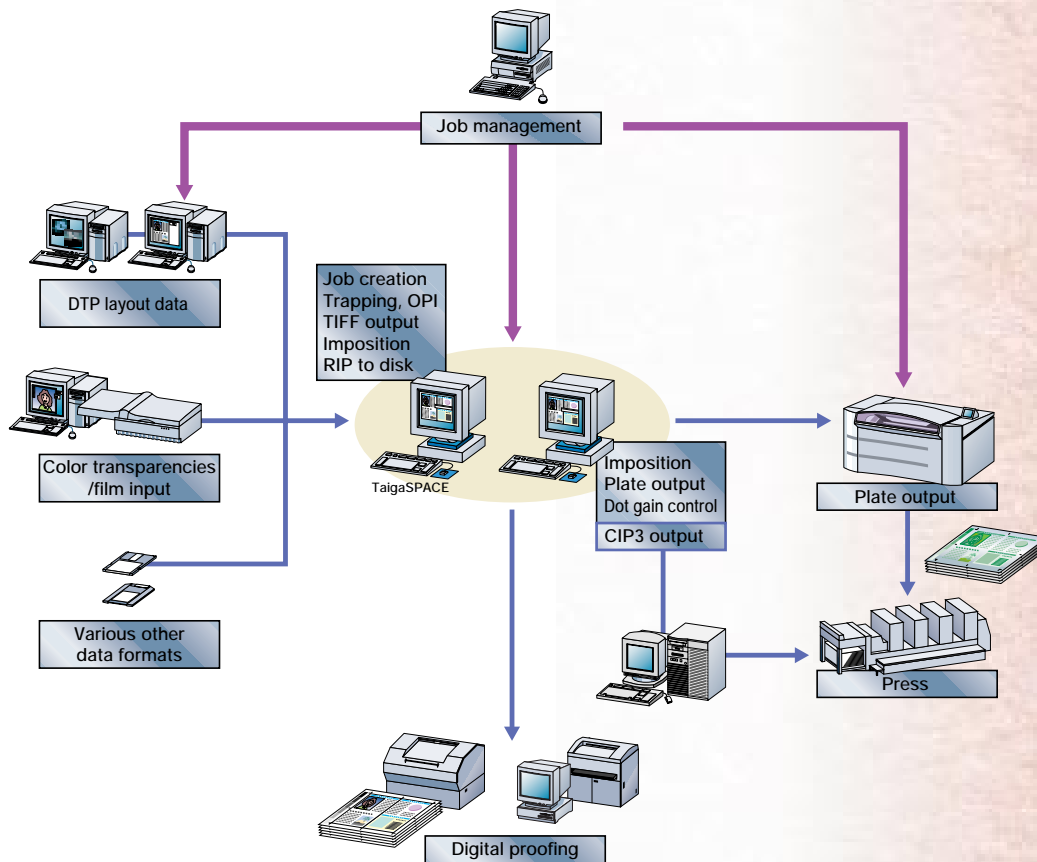
Digital proofing

Dainippon Screen also offers all the other components you need to move to a fully digital workflow such as copydot scanning, digital halftone color proofing, imposition proofing, color management, electronic trapping and imposition, and RIPping.

Copydot scanning with Cézanne

The award-winning Cézanne scanner with DotFinder copydot scanning software removes one of the barriers to CTP––incorporating archived and supplied films into a fully digital workflow. Replacing film with data saves a lot of physical storage space and facilitates faster, more versatile repurposing.

Digital proofing

The TrueRite digital color proofer and the PlateRite 8000 can both be driven by the same TaigaSPACE RIP system. The Renafit color management system carries out high-precision color matching to the final printed product. And because TrueRite can output digital halftone screens on the actual printing stock, it can output proofs nearly identical to the final printed product.

And for cost effective imposition proofing from TaigaSPACE, an A0-size printer is also available.

Digital workflow software

Screen's TaigaSPACE workflow automation system can handle everything from automatic trapping and imposition, and placement of color bars, collation marks, and register marks, to RIP'ing and screening. What's more, with the FlatWorker module, different jobs can be arranged on a single plate, with controls for dot gain, and fine xy adjustments for each of the jobs. FlatWorker can also be used to arrange color control patches, register marks, and gripper margins. TaigaSPACE can output CIP3 PPF (Print Production Format) data, which makes press set-up faster and easier and increases pressroom productivity by eliminating plate scanning and reducing the time it takes to get presses up to color.

Try speed

Our external drum spins not just a little faster, but many times faster than conventional external drum plate recorders.
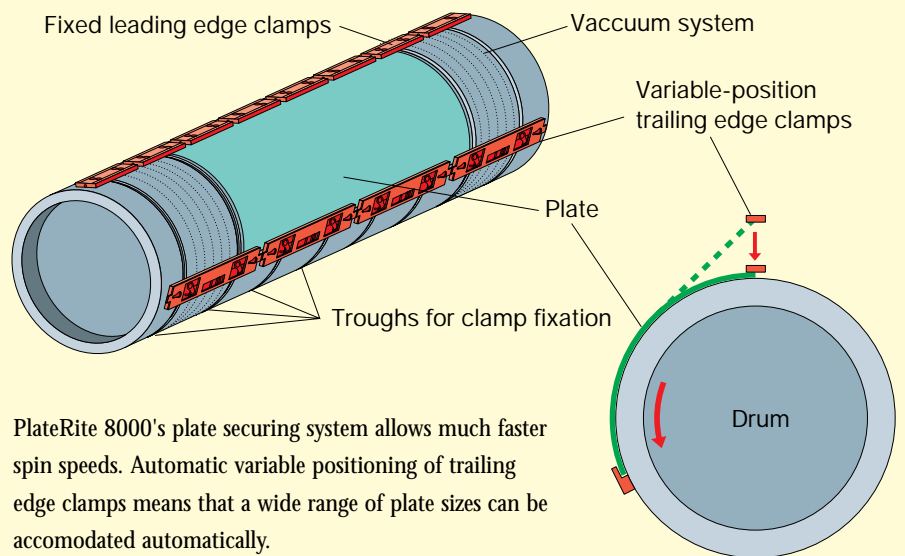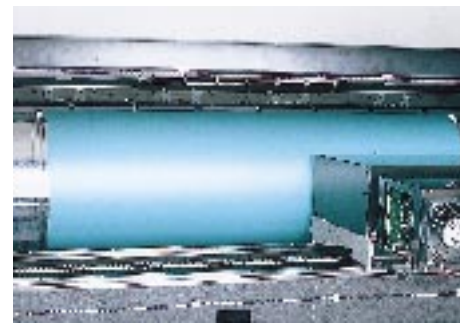
Fast external drum with multi-channel recording

Thermal plates require high energy for exposure. That's why high energy must be delivered to the plate to image dots. On external drum recorders, the light source can be positioned close to the plate, but up to now, drum speeds have been limited by the difficulty of securing the plates well enough to tolerate higher rotation speeds.

Now Screen has built on our expertise in external drum recording and precision clamping technologies to bring you a 32-channel external drum recorder with a difference––very fast drum rotation speeds are achieved in practice. That's how we can offer such high thermal plate output productivity.

An advanced, automated, light-weight clamping and vacuum system is the secret of PlateRite 8000's superior speed and productivity. The system keeps plates fully secure even at the PlateRite 8000's rapid rotation speeds. As the drum spins at up to 1,000 rpm, the 32 powerful laser diodes image in parallel creating the ultimate in thermal productivity.

Fixed leading edge clamps

Vaccuum system

Variable-position trailing edge clamps

Plate

Troughs for clamp fixation

Drum

PlateRite 8000's plate securing system allows much faster spin speeds. Automatic variable positioning of trailing edge clamps means that a wide range of plate sizes can be accomodated automatically.

4

PlateRite 8000
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NEW SOFTWARE AVAILABLE

To find out more about using the Harlequin® RIP-Kit software with this particular output device visit rti-rips.com or call 800-816-5755 (International Callers: 941-925-1303)

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