

SCREEN

# Plate Rite 4000

Thermal Plate Recorder



*Productive  
Automated  
Compact*

# Keep your 4-page presses running with thermal CTP—PlateRite 4000

Screen's new PlateRite 4000 B2-size thermal platesetter brings the functionality of Screen's acclaimed 8-page PlateRite 8000 to the task of producing thermal plates for 4-page presses. Thermal plates have attracted attention because they produce crisp dots, support long run-lengths, and can be handled in daylight.

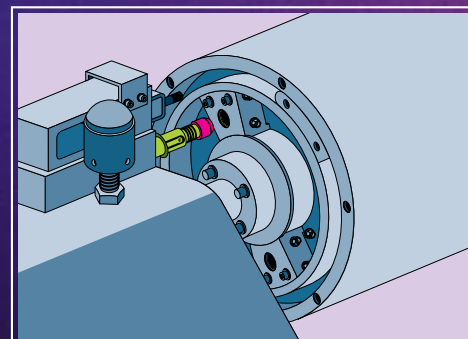
The PlateRite 4000's high-speed drum rotation of up to 1,000 rpm, combined with the 32-channel laser diode exposure head, result in productivity of up to 16 plates per hour\*. A wide range of plates can be exposed, because plates are reliably secured to the drum with Screen's own high-precision clamping system. Screen's automatic drum balancing mechanism enables the PlateRite 4000 to expose plates of various sizes, all at maximum speed.

Information on plate sizes and types can be programmed in, and recalled later from memory. By selecting the desired plate from a menu, drum balance and other settings are automatically adjusted to fit the selected plate. In addition, punch settings can be saved together with plate information, so that the appropriate punch configuration is also selected automatically at set-up time. The basic configuration is semi-automatic, but an optional single-cassette auto-loader and a processor bridge are soon to be released, and a multi-cassette auto-loader is under development.

\*At 2,400 dpi for 724 x 615 mm (28.5" x 24.2") plates.

## ■ Auto-balance to support different plate sizes

The PlateRite 4000 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 4000 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 467 x 394 mm (18.4" x 15.5") or 324 x 492 mm (12.8" x 19.4") to 830 x 645 mm (32.7" x 25.4"), making it easy to tailor plate output to the job at hand.





# high-productivity



## ■ Automatic internal punch

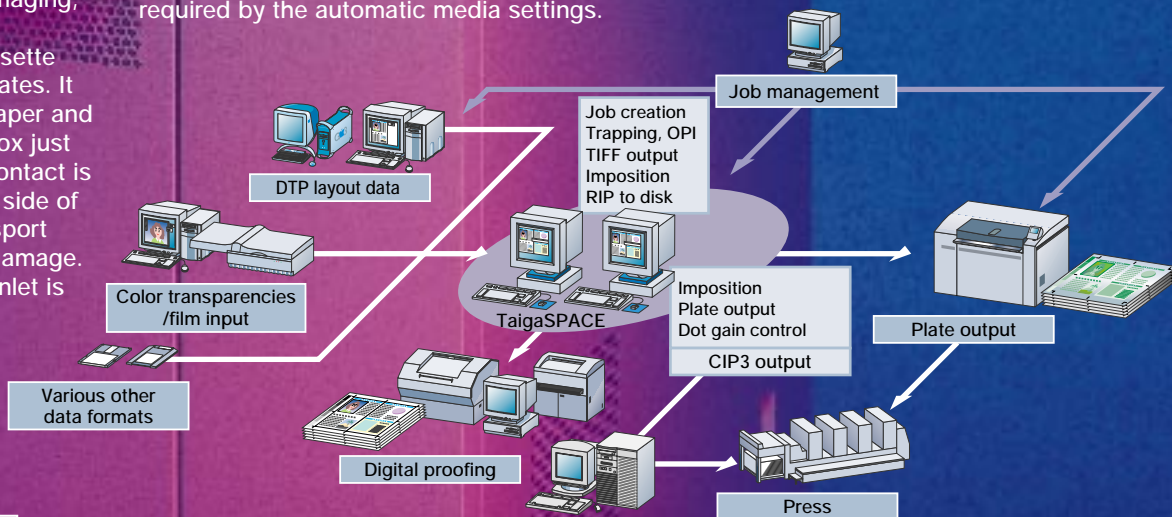
The PlateRite 4000 can even punch your plates for you just before imaging, with your choice of optional internal punch block systems that provide exceptional repeatability. You can mount four punch blocks and select punches based on plate size and press type. A variety of suitable punches are available. The PlateRite 4000 can change between two punch configurations automatically as required by the automatic media settings.

## ■ Digital workflow

Dainippon Screen 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, automatic trapping and imposition, and RIP'ing. The use of CIP3 PPF files is another powerful CTP option, and Screen has been a leading member of the international CIP3 consortium since its inception. Using PPF files, ink-duct keys can be pre-set based on plate image data, which shortens press set-up time, and eliminates plate scanning. Several companies are already achieving excellent results with Screen's CIP3 support.

## ■ Inline system to extend automation

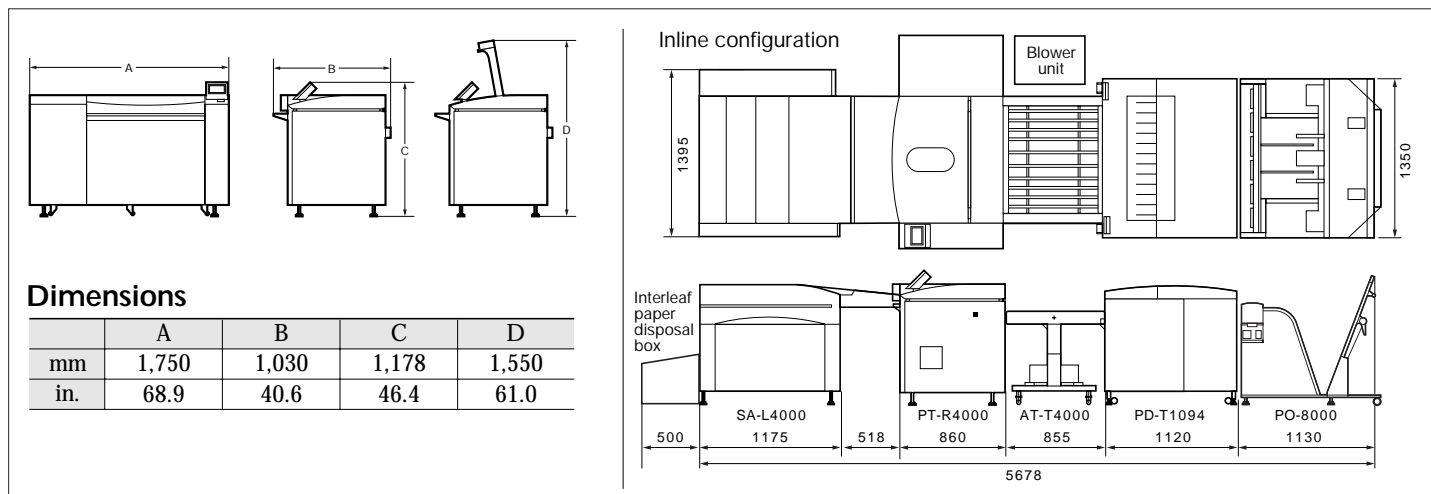
An inline system can be constructed which totally automates the stages involved from plate loading and imaging, through to developing. The optional SA-L4000 single-cassette auto-loader can hold up to 100 plates. It automatically removes interleaf paper and sends it to an external disposal box just before 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 plate damage. Manual loading from an external inlet is also supported, as is the use of different sized plates. Another option to complete this lineup is the AT-T4000 processor bridge, which provides an automated connection between the platesetter and the processor.



# late R ite 4000



## Space requirements



### Dimensions

	A	B	C	D
mm	1,750	1,030	1,178	1,550
in.	68.9	40.6	46.4	61.0

## PlateRite 4000 specifications

Model name	PT-R 4000
Recording system	External drum
Laser	32 channel infrared LD, 1W per channel
Plate sizes	Maximum: 830 x 645 mm (32.7" x 25.4") Minimum: 324 x 394 mm (12.8" x 15.5")
Exposure size	Maximum: 830 x 615 mm (32.7" x 24.2") (With front and rear margins of 15 mm each.)
Media	Thermal (830 nm infrared-sensitive) plates
Media thickness	0.15 - 0.3 mm
Resolution	1,200/2,000/2,400/4,000 dpi
Repeatability	± 5 micrometers (± 0.2 mil.)*
Productivity	16 plates per hour at 2,400 dpi for 724 x 615 mm (28.5" x 24.2")**
Interface	Fast PIF
Plate transport	Semi-automatic (standard) Fully-automatic (optional)
Punch (optional)	DS, Heidelberg, Protocol, Komori, and others
Dimensions	Main unit: 1,750 mm x 1,030 mm x 1,178 mm W x D x H (68.9" x 40.6" x 46.4")
Weight	630 kg (1,386 lbs.)
Environment	Recommended: 21-25°C (70-77°F) Operating range: 18-25°C (64-77°F) 40 - 70% non-condensing humidity
Power	Single phase 200 - 230V ±10% 3kW 15A
Standard accessories	Blower unit
Options	Single cassette auto-loader SA-L 4000 (soon to be released) Processor bridge AT-T 4000 (soon to be released) Multi-cassette auto-loader MA-L 4000 (under 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-L4000 single-cassette auto-loader specifications

Plate transport	Fully automatic (automatic interleaf removal)
Cassette capacity	100 plates
Cleaning roller	removes dust/debris (both sides of each plate)
Throughput	14.1 plates per hour (650 x 550 mm [25.5" x 21.6"] plates, 2,400 dpi, including punching)
Dimensions(W x D x H)	1,395 x 1,735 x 1,010 mm (55.0" x 68.3" x 39.8")
Installation dimensions (W x H)	1,200 x 1,050 mm (47.3" x 41.4")
Weight	approx. 340 kg (748 lbs.)
Power	Single phase 200V 1kW 5A
Grounding	(to comply with local regulations)
Environment	23 ± 2 (73.4 ± 3.6 F), 40 - 70% humidity (no condensation)
Standard accessories	Plate cassette and carrier Interleaf paper collection box
Options	Additional plate cassettes and carriers with cassette covers (for protection against dust)

## AT-T4000 processor bridge specifications

Transport speed	(transferring plates) 600 - 6,000 mm/min. (23.6" - 236.2"/min) (fixed at installation) (discharging plates) 600 - 6,000 mm/min. (23.6" - 236.2"/min) (dependent on processor)
Bridge height adjustment limits	Standard 915 mm (36.0") maximum 80 mm [3.14"] height difference between platesetter and processor center of bridge adjustable to any height between 875-955 mm [34.5" - 37.5"]
Dimensions (W x D x H)	850 x 1,100 x 1,050 mm (33.5" x 43.3" x 41.4")
Weight	50 kg (110 lbs.)
Power	Single phase 100 - 120V 1.1 kW 1.1A Single phase 200 - 240V 1.1 kW 0.55A

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• Printed on recycled paper.

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