SCREEN
INNOVATION & RELIABILITY

PlateRite 4300/4100
Thermal Plate Recorders

High-quality thermal CTP for 4-page presses

DAINIPPON SCREEN'S THERMAL CTP SOLUTIONS ARE UNBEATABLE FOR THEIR QUALITY, ACCURACY, AND RELIABILITY. THEY CONSISTENTLY OUTPUT PLATES WITH A DOT SHARPNESS AND REGISTRATION ACCURACY THAT ENABLE SUPERIOR PROCESS CONTROL AND FAST MAKEREADY TIMES. THEY ALSO OFFER THE BENEFITS OF EASY DAYLIGHT HANDLING AND EXCEPTIONAL PRODUCTION EFFICIENCY FOR BOTH SHORT AND LONG RUNS.

SCREEN'S PLATERITE 4300 AND PLATERITE 4100 ARE SPECIALLY DESIGNED TO PROVIDE OPTIMAL VERSATILITY IN PLATE PRODUCTION FOR 4-PAGE AND 2-PAGE PRESSES. THE PLATERITE 4300 IS A HIGH-SPEED MODEL THAT CAN COMFORTABLY AND CONSISTENTLY OUTPUT UP TO 20 PLATES PER HOUR WHEN WORKING WITH 724 X 65 MM (28.5"X 24.2") PLATES AT 2,400 DPI. THE PLATERITE 4100 IS AN AFFORDABLE ENTRY-LEVEL SOLUTION THAT OFFERS THE SAME HIGH-QUALITY FEATURES AS THE PLATERITE 4300, AND PROVIDES OUTPUT AT UP TO 10 PLATES PER HOUR. BOTH MODELS HAVE A PROVEN EXTERNAL-DRUM DESIGN AND COME WITH THE OPTION OF INLINE PUNCHING BLOCKS TO HELP ENSURE PERFECT ON-PRESS REGISTER AND FASTER MAKE-READY TIMES.

THE CHOICE HAS NEVER BEEN EASIER FOR MAKING THE MOVE TO HIGH-QUALITY THERMAL CTP.
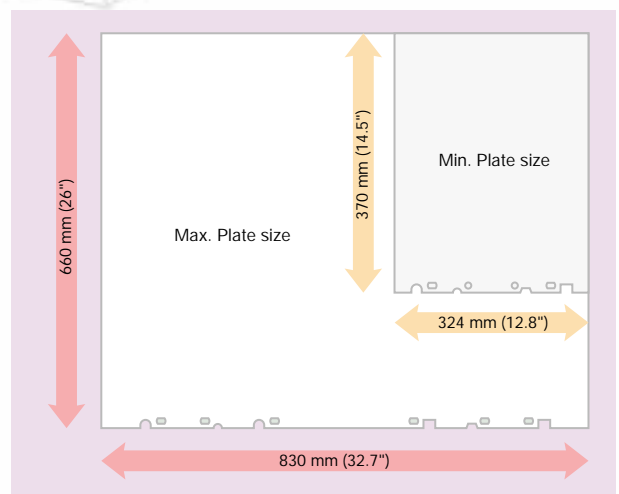

Versatile and easy to use
Output suitable for 2-page or 4-page presses

Support for a wide range of plate sizes
The PlateRite 4300 and 4100 can handle the plate requirements of new larger-format 4-page presses. Both support a maximum plate size of 830 x 660 mm (32.7" x 26"), and are also capable of supporting some of the smaller 2-page presses with a minimum plate size of 324 x 370 mm (12.8" x 14.5"). The PlateRite 4300 and 4100 offer an unbeatably flexible and reliable solution for fast output of a wide variety of plate sizes.

Auto-balance for different plate sizes
Auto-balance lets you use different sized plates without making any manual adjustments for correct drum balance. All you do is select the type of plate you want to use and the PlateRite 4300 and 4100 automatically make the necessary adjustments to create perfect drum balance for each plate size. The PlateRite 4300 and 4100 also feature separate loading and unloading bays, so that one plate can be readied for loading while another is being exposed.

660 mm (26")
370 mm (14.5")
Min. Plate size
Max. Plate size
324 mm (12.8")
830 mm (32.7")

Productivity-enhancing automation

Optional inline punching and automated plate loading

Automatic inline punch

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 registration accuracy compared with either manual or off-line punching, eliminates human error and achieves faster press makeready. 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 four punch blocks can be mounted and selected according to plate size and press type.

Autoloader options

The PlateRite 4300 and 4100 can be configured for efficient automatic operation with Screen's optional autoloaders, which are acclaimed in the market for their reliability and precision. Both the PlateRite 4300 and PlateRite 4100 can be paired with the SA-L4300 single-cassette autoloader. This high-quality unit can hold up to 100 plates and automatically removes interleaf paper before loading each plate. It is also possible to upgrade from the SA-L4300 to the MA-L4300 multi-cassette autoloader, which comes standard with three cassettes and enables up to 300 plates of three different sizes to be loaded and imaged in the PlateRite 4300 or PlateRite 4100 without operator intervention. The PlateRite 4100 can also be matched with the more economical SA-L4100 single-cassette autoloader*.

Both the PlateRite 4300 and PlateRite 4100 are supported by an automatic processor bridge, which extends the automation process all the way through to the plate processor.

* The SA-L4100 has a capacity of 50 plates and requires manual interleaf removal.

SA-L4300 single-cassette autoloader specifications

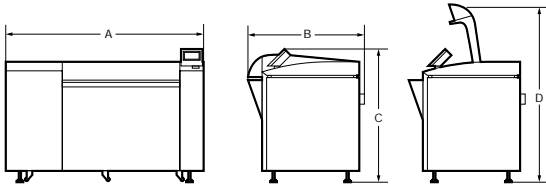|	
Plate transport	Fully automatic loading & automatic interleaf removal
Cassette capacity	100 plates
Cleaning function	Cleaning roller (cleans both sides of plate)
Dimensions (W x D x H)	1,395 x 1,775 x 1,060 mm (55.0" x 69.9" x 41.7")
Installation dimensions (W x H)	1,240 x 1,100 mm (48.8" x 43.3")
Weight	Approx. 340 kg (748 lbs.)
Power	Single phase 200 to 240V +6%/-10%, 5A, 1.0kW
Grounding	(to comply with local regulations)
Environment	Same as main unit
Standard accessories	Plate cassette and carrier, interleaf paper collection box
Options	Additional plate cassettes and carriers with cassette covers (for protection against dust)

MA-L4300 multi-cassette autoloader specifications

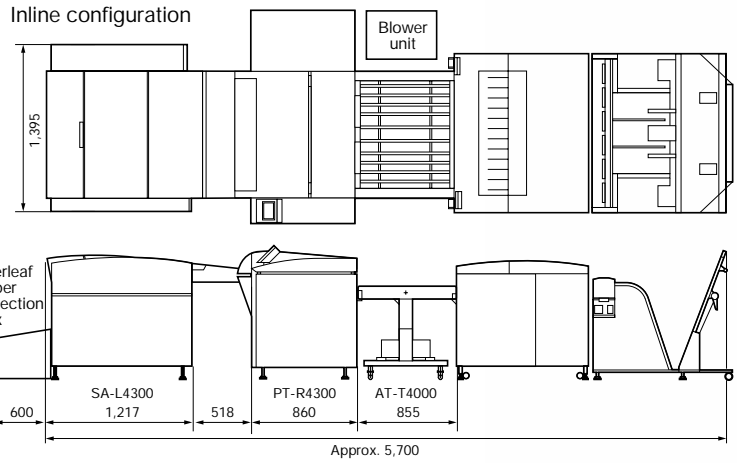|	
Plate transport	Fully automatic loading & automatic interleaf removal
Cassette capacity	100 plates per cassette
No. of cassettes	3 cassettes
Cassette transport	Fully automatic (horizontal/vertical)
Cleaning function	Cleaning roller (cleans both sides of plate)
Dimensions (W x D x H)	2,590 x 1,775 x 1,060 mm (10.2" x 69.9" x 41.7")
Installation dimensions (W x H)	1,240 x 1,100 mm (48.8" x 43.3")
Weight	Approx. 765 kg (1,683 lbs.)
Power	Single phase 200 to 240V +6%/-10%, 5A, 1.0kW
Environment	Same as main unit
Standard accessories	3 cassettes, interleaf paper collection box

SA-L4100 single-cassette autoloader specifications

Plate transport	Automatic, but requires manual removal of interleaf paper
Cassette capacity	50 plates (same size only)
Cleaning function	Cleaning roller (cleans both sides of plate)
Dimensions (W x D x H)	1,260 x 1,335 x 1,031 mm (49.6" x 52.6" x 40.6")
Installation dimensions (W x H)	1,300 x 1,100 mm (51.2" x 43.3")
Weight	Main unit approx. 150 kg (330 lbs.), Carrier 48 kg (106 lbs.)
Power	Single phase 200 to 240V +6%/-10%, 50/60 Hz, 5A, 1.0 kW
Grounding	(to comply with local regulations)
Environment	Same as main unit
Standard accessories	Plate cassette with cassette carrier

Space requirements

Dimensions

	A	B	C	D
mm	1,750	1,030	1,178	1,537
in.	68.9	40.6	46.4	60.5

Inline configuration

Blower unit

1,395

Interleaf paper collection box

	SA-L4300		PT-R4300	AT-T4000
600	1,217	518	860	855

Approx. 5,700

PlateRite 4300/4100 specifications

Product name	PlateRite 4300	PlateRite 4100
Recording system	External drum	
Light source	32-channel infrared laser diodes	16-channel infrared laser diodes
Plate sizes	Maximum 830 x 660 mm (32.7" x 26") Minimum 324 x 370 mm (12.8" x 14.5")	
Exposure size	Maximum 830 x 633 mm (32.7" x 24.9") (Front margin 15 mm, rear margin 12 mm)	
Media	Thermal (infrared sensitive) plates	
Media thickness	0.15 to 0.3 mm (5.9 to 11.8 mil)	
Resolutions	1,200/2,000/2,400/2,438/2,540/4,000 dpi	2,400/2,438/2,540 dpi
Repeatability	± 5 microns*	
Productivity	20 plates/hr at 2,400 dpi (724 x 615 mm / 28.5" x 24.2")**	10 plates/hr at 2,400 dpi (724 x 615 mm / 28.5" x 24.2")**
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)	1,750 x 1,030 x 1,178 mm (68.9" x 40.6" x 46.4")	
Weight	645 kg (1,422 lbs.)	
Environment	23°C ± 2°C (73.4°F ± 3.6°F), 40% to 70% relative humidity (non-condensing)	
Power requirments	Single phase 200 to 240V +6%/-10%, 20A, 4.0kW	
Standard accessories	Blower unit	
Options	Single-cassette autoloader SA-L4300 Multi-cassette autoloader MA-L4300 Processor bridge AT-T4000	Single-cassette autoloader SA-L4100 Single-cassette autoloader SA-L4300 Processor bridge AT-T4000

 * *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.*

Note: The MA-L4300 autoloader cannot be used with the PlateRite 4100.

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

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