SCREEN

PlateRite 8000 Series

Thermal Plate Recorders

PlateRite 8800ZX

Creating a Future in Print

The PlateRite 8000 series:
Advanced CTP units that make high-performance CTP output a reality in your production environment

A full lineup of PlateRite 8000 series models, to suit any need

The PlateRite 8800ZX/Z/S/E

The PlateRite 8800ZX features a 1,024-channel imaging head with the latest GLV™ technology. This new imaging head makes it possible for the PlateRite 8800ZX to output a remarkable 51 plates per hour*, the highest productivity in its class. It also provides the high-quality halftone dot reproduction users have come to expect in thermal plate output, for the perfect marriage of quality and productivity.

* When using the PlateRite 8800ZX to output 1,030 x 800 mm (40.5" x 31.4") plates, at 2,400 dpi.

The PlateRite 8300S/E

The PlateRite 8300E/S are entry-level thermal CTP recorders that output B1-size plates. The PlateRite 8300S combines a 32-channel light source and a high-speed drum to enable output at a blistering 13 plates per hour. The more economical PlateRite 8300E utilizes a 16-channel light source and can output up to 8 plates* per hour.

* When outputting 1,030 x 800 mm (40.5" x 31.5") plates at 2,400 dpi.

The PlateRite 8600Z/S/SL/E

The PlateRite 8600Z/S/SL/E are standard thermal CTP recorders that output B1-size plates. The PlateRite 8600Z and PlateRite 8600S/SL feature a 64-channel light source that makes it possible to output a blistering 22 plates per hour* on the high-speed rotating drum. The PlateRite 8600E features a 32-channel light source; the PlateRite 8600E can output up to 14 plates per hour*.

* When outputting 1,030 x 800 mm (40.5" x 31.5") plates at 2,400 dpi.
  The PlateRite 8600SL offers a range of functions selected from the PlateRite 8600S.

High-resolution and lenticular printing support
The PlateRite 8800E/S/Z and PlateRite 8600Z offers high-resolution 4,000 dpi support as an option. This option is perfect for everything from high-resolution art printing to the accurate reproduction of small text sizes like those required for bond and other certificate printing.

PlateRite 8800Z/S/E to support the output of plates suitable for high-quality lenticular printing, including plates for the output of 3D images, can also be produced.

The PlateRite 8000 series models offer fast, reliable processing, from data input to plate output, making them the perfect tools for even the most advanced digital workflows.

A full range of advanced features that support high quality and high productivity

Regular monitoring of production status from a remote location

Remote monitoring allows users to keep an eye on CtP operating conditions and output history from a remote location, using a web browser or e-mail. E-mails can also be sent automatically to the service center and entered into a database for use in maintenance, repairs, and periodic inspections, ensuring that the CtP recorder is in optimal operating condition at all times.
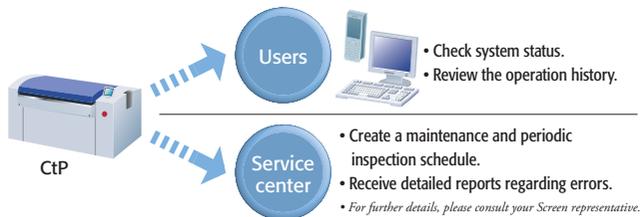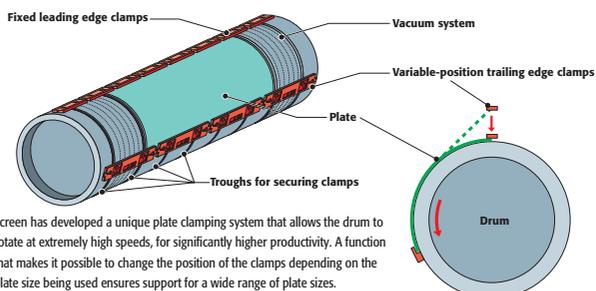

Stable drum rotation

The PlateRite 8000 series features a unique auto-balancing feature. The operator simply selects the appropriate pre-registered plate size and type during setup, and the recorder automatically makes the necessary adjustments to ensure perfect drum balance. This results in stable, high-speed drum rotation for all the plate sizes and thicknesses handled by the recorder.

Maximized available image area

The minimum clamp size that can be used with the PlateRite 8000 series is 8 mm, for both the leading and trailing edge clamps (with a leading edge clamp size of just 6 mm in the 8800 series). The available imaging area is extremely large, so plates can be used for a wide range of printing press types. This helps reduce the amount of effort involved in plate handling and increases printing press operating ratios, thereby contributing significantly to increased productivity.

* When the notchless PlateRite 8800 (option) is selected, the clamp size is even smaller.

Screen has developed a unique plate clamping system that allows the drum to rotate at extremely high speeds, for significantly higher productivity. A function that makes it possible to change the position of the clamps depending on the plate size being used ensures support for a wide range of plate sizes.

Superior registration accuracy

The PlateRite 8000 series features an automatic inline punching system[1] that helps enable perfect registration on press. Plates are punched by this automatic inline punching system immediately before being loaded onto the drum. The registration punch holes ensure consistent plate placement on the drum, when used in conjunction with standard registration pins. This helps eliminate imaging variations caused by improper plate placement, and ensures superior registration accuracy.

When optional press punch blocks[2] are used, the imaged plates can be loaded directly onto the press after output. The use of press punch blocks during plate output eliminates the need for manual punching later on in the workflow, ensures excellent registration accuracy, and creates the foundation for perfect results on press. It also dramatically shortens press make-ready time and improves press operating ratios, for even better overall productivity.

[1] The PlateRite 8600SL supports the use of printing press punch blocks when the registration punch option is selected.
[2] Up to eight individual punch blocks can be selected and mounted, depending on the plate sizes and printing press types being used.
When the optional printing press punch blocks are used with the PlateRite 8600SL, the registration punch option must also be selected.

Upgrade to create the optimal CTP environment

The PlateRite 8800/8600/8300 units all have certain parts that can be replaced to upgrade them to higher model types (upgrade is a paid option). These flexible recorders can be upgraded whenever desired to create the optimal production environment as productivity needs change.

Improved productivity with automation of everything from plate loading to delivery

The PlateRite 8000 series units can be used with auto-loaders that automate plate loading, imaging, transport, developing, and delivery. These auto-loaders enable long periods of continuous production and contribute significantly to improved productivity and better printing press operating ratios.

MA-L 8800ZX

Processor bridge completes automated line, and is compatible with major processor types

Inline punching system (option)

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

Sensor automatically detects plate/interleaf paper

External collection box for ejected interleaf paper

Up to 5 cassettes, each with up to 100 plates
Up to 5 different plate sizes (or all same)
Maximum of 500 plates loaded without operator intervention
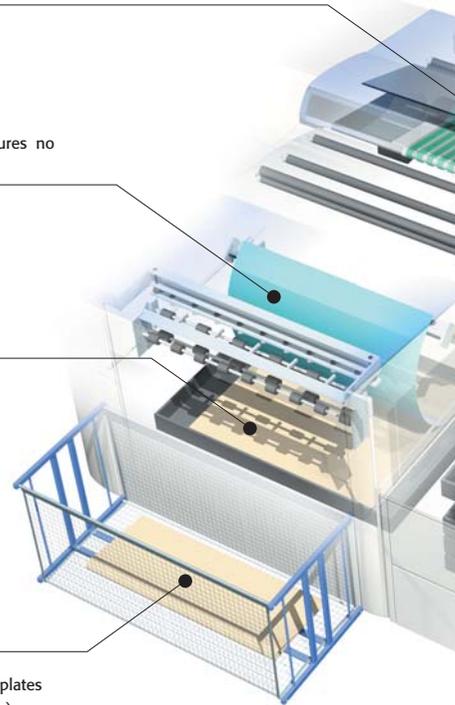
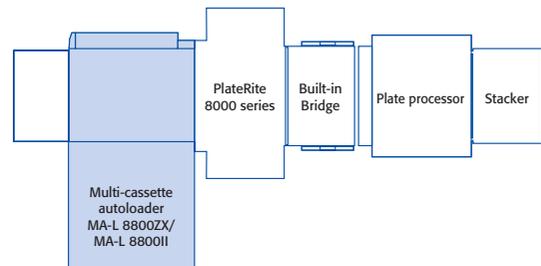# Customize your system by choosing anything from semi-automatic to fully automatic plate

SA-L 8800ZX/8800II single-cassette autoloader (option)

The SA-L 8800ZX/8800II 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 during transport, eliminating the risk of damage to the plate. Manual loading is also possible, providing the flexibility to use different sized plates whenever required.
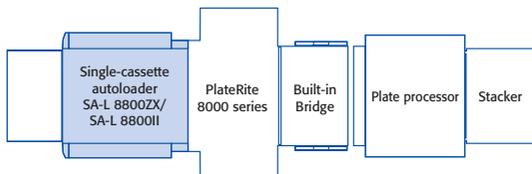
## MA-L 8800ZX/8800II multi-cassette autoloader (option)

The MA-L 8800ZX/8800II multi-cassette autoloader enables complete automation of the cassette changing and plate loading processes. It is attached as an extension to the single-cassette autoloader. It comes standard with three cassettes, with each cassette holding up to 100 plates. An additional two cassettes are available as an option. The use of five cassettes makes it possible to image up to 500 plates of five different sizes without operator intervention - almost 24 hours of unattended operation at 22 plates per hour.

Single-cassette autoloader SA-L 8800ZX/ SA-L 8800II | PlateRite 8000 series | Built-in Bridge | Plate processor | Stacker

Multi-cassette autoloader MA-L 8800ZX/ MA-L 8800II | PlateRite 8000 series | Built-in Bridge | Plate processor | Stacker

	PlateRite 8800ZX	PlateRite 8800Z/S/E, PlateRite 8600, PlateRite 8300
Single-Casette autoloader	SA-L 8800ZX	SA-L 8800II
Multi-Casette autoloader	MA-L 8800ZX	MA-L 8800II
Processor bridge	Built-in Bridge, AT-T 8001, AT-M 8001	
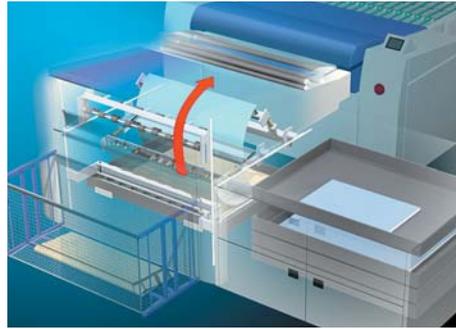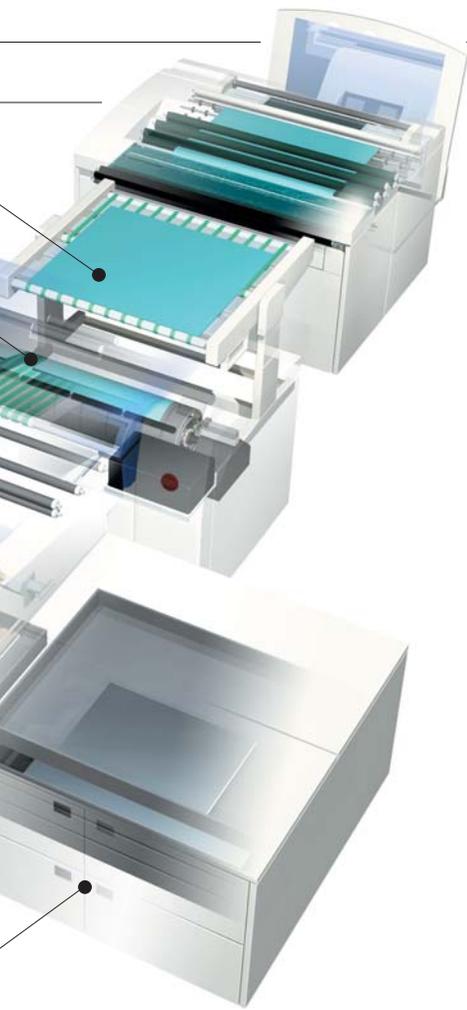
1 The arm goes to pick up the plate, and the plate is hoisted up to the engine section.
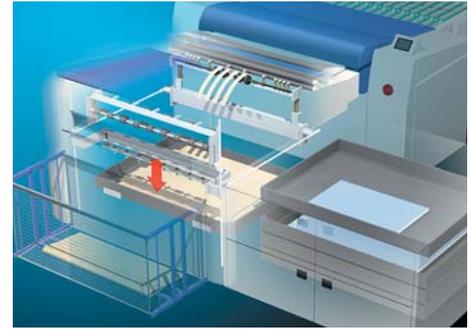
2 The interleaf paper adheres to the suction pads and is removed.
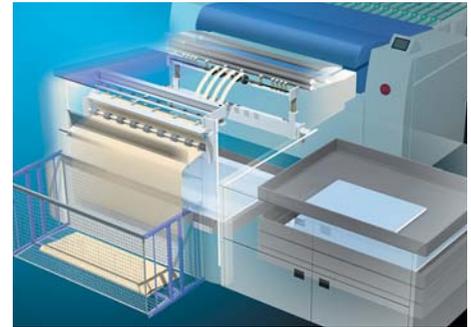
3 The interleaf paper is lifted away and ejected into an external collection box.

handing

Multi-bridge AT-M8001

The AT-M 8001 is a multi-bridge that can connect the PlateRite 8000 Series to multiple plate processors. It allows you to connect the PlateRite 8000 series to several different plate processors and then switch the transport line between them as necessary to process different types of plates at different plate processors. It also has a space-saving design that enables the use of an L-shaped transport line if there isn't room for straight-line transport.

Multi-cassette autoloader
MA-L 8800ZX/
MA-L 8800II

PlateRite 8000 series

AT-M 8001

Stacker

Plate processor

Stacker
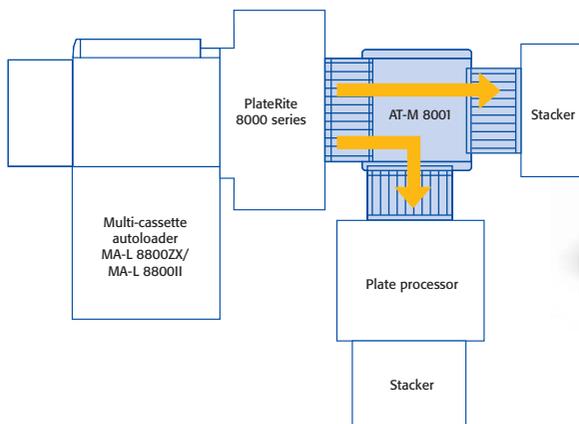
AT-M8001 with straight-line transport bridge (option)

PlateRite 8000 series specifications/diagram

PlateRite 8800ZX/Z/S/E specifications

	PlateRite 8800ZX	PlateRite 8800Z	PlateRite 8800S	PlateRite 8800E
Recording system	External drum			
Light source	1,024-channel laser diode	512-channel laser diode		
Plate size	Maximum: 1,160 x 940 mm (45.6" x 37"); Minimum: 450 x 370 mm (17.8" x 14.6") [minimum 304 x 370 mm (12" x 14.6") available as an option]			
Exposure size	Maximum: 1,160 x 926 mm (45.6" x 36.4") [(when the notchless option is selected)*1]			
Media	Thermal plates			
Media thickness*2	0.15 to 0.3 mm (5.9 mil to 11.8 mil) [0.4 mm (15.7 mil) available as an option]			
Resolutions (dpi)	1,200*3/2,400/2,438/2,540/4,000 (4000 dpi is only available for the PlateRite 8800Z/S/E when the high-resolution option is selected)			
Repeatability	± 5 microns*4			
Productivity*5	51 plates/hr at 2,400 dpi (1,030 x 800 mm/40.5" x 31.4" plates)	42 plates/hr at 2,400 dpi (1,030 x 800 mm/40.5" x 31.4" plates)	32 plates/hr at 2,400 dpi (1,030 x 800 mm/40.5" x 31.4" plates)	24 plates/hr at 2,400 dpi (1,030 x 800 mm/40.5" x 31.4" plates)
Interface	S-PIF			
Plate transport	Semi-automatic loading (standard), Fully-automatic loading (optional), Processor bridge (optional)			
Punch systems	Screen, Heidel, Heidelbach W, Protocol, Komori, and others			
Dimensions (W x D x H)	Main unit: 2,440 x 1,295 x 1,302 mm (96.1" x 51" x 51.3") Blower unit: 693 x 675 x 550 mm (27.3" x 26.6" x 21.7"); Chiller unit: 385 x 530 x 870 mm (15.2" x 20.9" x 34.3")			
Weight	Main unit: 1,150 kg (2530 lb); Blower unit: 85 kg (187 lb); Chiller unit: 79 kg (173.8 lb)			
Power requirements	Main unit: Single phase 200 V to 240 V, 21 A, 4 kW (Approved UL, CSA, Declared CE) Chiller unit: Single phase 200 V to 240 V, 15 A, 3 kW (Approved UL, CSA, Declared CE) [SA-L, MA-L, AT-T, AT-M, and blower unit are powered by main unit.]			
Environment	Recommended: 21 to 25°C (69.8 to 77°F); Required: 18 to 26°C (64.4 to 78.8°F); Relative humidity: 40 to 70% (no condensation)			
Options	SA-L 8800ZX MA-L 8800ZX	SA-L 8800II, MA-L 8800II High-resolution printing option (4,000 dpi)*6		
	Notchless option*6, feed tray, plate transport system (built-in bridge, AT-T 8001, AT-M 8001), various printing punches, small-size plate support option*6, support for 0.4 mm thickness*6, optional registration punch*7, signal tower unit			

*1. If the notchless option is not selected, the maximum is 1,160 x 929 mm (45.6" x 36.5"). The productivity of units with the notchless option is also different.
*2. The factory option thickness of 0.4 mm (15.7 mil) is only available for plates 1,030 x 770 mm (40.5" x 30.3") or larger. *3. 1,200 dpi uses 2,400 dpi double dots.
*4. Over four consecutive exposures on a single plate (temperature: 23°C; relative humidity: 60%). *5. Productivity may vary depending on the sensitivity of the media. *6. Option must be selected before the unit is shipped from the factory.
*7. Required for plate widths 590 mm (23.3") or larger, but less than 610 mm (24").

PlateRite 8600Z/S/SL/E specifications

	PlateRite 8600Z	PlateRite 8600S/SL	PlateRite 8600E
Recording system	External drum		
Light source	64-channel laser diodes		32-channel laser diodes
Plate size	Maximum: 1,160 x 940 mm (45.6" x 37"); Minimum: 450 x 370 mm (17.8" x 14.6") [minimum 304 x 370 mm (12" x 14.6") available as an option] [Maximum: 1,150 x 940 mm (45.2" x 37"); Minimum: 450 x 370 mm (17.8" x 14.6") for the PlateRite 8600SL]		
Exposure size	Maximum: 1,160 x 924 mm (45.6" x 36.3")*1 [Maximum: 1,150 x 916 mm (45.2" x 36.1")*1 for the PlateRite 8600SL]		
Media	Thermal plates		
Media thickness	0.15 to 0.3 mm (5.9 to 11.8 mil) (support for thicknesses up to 0.4 mm available as a factory option)		
Resolutions	1,200*2/2,000*2/2,400/2,438/2,540/4,000 dpi	1,200*2/2,400/2,438/2,540 dpi	
Repeatability	± 5 microns*3		
Productivity *4	22 plates/hr at 2,400 dpi (1,030 x 800 mm/40.5" x 31.4" plates)		14 plates/hr at 2,400 dpi (1,030 x 800 mm/40.5" x 31.4" plates)
Interface	F-PIF		
Plate transport	Semi-automatic loading (standard), Fully-automatic loading (optional), Processor bridge (optional) Rear delivery kit for the PlateRite 8600SL (available as an option only)		
Punch systems	Screen, Heidel, Heidelbach W, Protocol, Komori, and others		
Dimensions (W x D x H)	Main unit: 2,440 x 1,295 x 1,302 mm (96.1" x 51" x 51.3"); Blower unit: 693 x 675 x 550 mm (27.3" x 26.6" x 21.7")		
Weight	Main unit: 1,150 kg (2,530 lb); Blower unit: 85 kg (187 lb)		
Power requirements	Main unit: Single phase 200 V to 240 V, 32A, 4 kW (Approved UL, CSA, Declared CE) (SA-L, MA-L, AT-T, AT-M, and blower unit are powered by main unit.)		
Environment	Recommended: 21 to 25˚C (69.8 to 77˚F); Required: 18 to 26˚C (64.4 to 78.8˚F); Relative humidity: 40 to 70% (no condensation)		
Options	SA-L 8800II, MA-L 8800II, feed tray, plate transport system (built-in bridge, AT-T 8001, AT-M 8001), various printing punches, small-size plate support option*6, support for 0.4 mm thickness*6, optional registration punch*7, signal tower unit. The registration punch system and clearing roller are available for the PlateRite 8600SL only as options.		

*1. A 24-mm portion remains unexposed when 12-mm clamps are used. A 16-mm portion remains unexposed when 8-mm clamps are used. Productivity is different when 8-mm clamps are used.
*2. 1,200 dpi uses 2,400 dpi double dots. 2,000 dpi uses 4,000 dpi double dots. *3. Over four consecutive exposures on one plate at 23 (73.4) and 60% relative humidity.
*4. Productivity may vary depending on the sensitivity of the media. *5. The registration punch option is required for the PlateRite 8600SL when a press punch is installed.
*6. Option must be selected before the unit is shipped from the factory. *7. Required for plate widths 590 mm (23.3") or larger, but less than 610 mm (24").

AT-M 8001 plate transport system specifications

Dimensions (W x D x H)	2,150 x 1,655 x 955 mm (84.7" x 65.2" x 37.6")
Weight	180 kg (396 lb)
Power requirements	Supplied by main unit
Environment	Recommended: 21 to 25°C (69.8 to 77F); Required: 18 to 26°C (64.4 to 78.8F); Relative humidity: 40 to 70% (no condensation)
Options	Left-turn transport layout, straight-line transport bridg

PlateRite 8300S/E specifications

	PlateRite 8300S	PlateRite 8300E
Recording system	External drum	
Light source	32-channel laser diodes	16-channel laser diodes
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 304 x 370 mm [12.0" x 14.6"] with factory option)	
Exposure size	Maximum: 1,160 x 924 mm (45.6" x 36.3")[*1]	
Media	Thermal plates	
Media thickness	0.15 to 0.3 mm (5.9 to 11.8 mil) (support for thicknesses up to 0.4 mm available as a factory option)	
Resolutions	1,200[*2]/2,000/2,400/2,438/2,540 dpi	2,400/2,438/2,540 dpi
		(1,200 dpi[*2] output is also supported by upgraded PlateRite 8300 units.)
Repeatability	± 5 microns[*3]	
Productivity[*4]	13 plates/hr at 2,400 dpi	8 plates/hr at 2,400 dpi
	(1,030 x 800 mm/40.5" x 31.4" plates)	(1,030 x 800 mm/40.5" x 31.4" plates)
Interface	F-PIF	
Plate transport	Semi-automatic loading (standard), Fully-automatic loading (optional), Processor bridge (optional)	
Punch systems (optional)	Screen, Heidel, Heidelbach W, Protocol, Komori, and others	
Dimensions (W x D x H)	Main unit: 2,440 x 1,295 x 1,302 mm (96.1" x 51.0" x 51.3")	
	Blower unit: 693 x 675 x 550 mm (27.3" x 26.6" x 21.7")	
Weight	Main unit: 1,150 kg (2,530 lb); Blower unit: 85 kg (187 lb)	
Power requirements	Main unit: Single phase 200 V to 240 V, 32A, 4 kW (Approved UL, CSA, Declared CE)	
	(SA-L, MA-L, AT-T, AT-M, and blower unit are powered by main unit.)	
Environment	Recommended: 21 to 25°C (69.8 to 77°F);	
	Required: 18 to 26°C (64.4 to 78.8°F); Relative humidity: 40 to 70% (no condensation)	
Options	SA-L 8800II, MA-L 8800II, feed tray, plate transport system (built-in bridge, AT-T 8001, AT-M 8001)[*5], various printing punches,	
	small-size plate support option[*6], support for 0.4 mm thickness[*6], optional registration punch[*7], signal tower unit.	

*1. A 24-mm portion remains unexposed when 12-mm clamps are used. A 16-mm portion remains unexposed when 8-mm clamps are used. Productivity is different when 8-mm clamps are used.
*2. 1,200 dpi uses 2,400 dpi double dots. *3. Over four consecutive exposures on one plate at 23°C (73.4°F) and 60% relative humidity. *4. Productivity may vary depending on the sensitivity of the media.
*5. PlateRite 8300E (included upgraded model) requires the rear delivery kit. *6. Option must be selected before the unit is shipped from the factory. *7. Required for plate widths 590 mm (23.3") or larger, but less than 610 mm (24").

Autoloader specifications

Model name	SA-L 8800ZX	SA-L 8800II	MA-L 8800ZX	MA-L 8800II
Compatible models	PlateRite 8800ZX	PlateRite 8800Z/S/E, PlateRite 8600[*1], PlateRite 8300	PlateRite 8800ZX	PlateRite 8800Z/S/E, PlateRite 8600[*1], PlateRite 8300
Plate transport	Fully automated (automatic interleaf paper removal)			
Cassette capacity	100 plates		100 plates per cassette	
No. of cassettes	—		Up to 5 cassettes (3 cassettes standard)	
Dimensions (W x D x H)	1,758 x 1,806 x 1,295 mm (69.3" x 71.2" x 51")		3,213 x 1,806 x 1,295 mm (126.5" x 71.2" x 51")	
Weight[*2]	600 kg (1,320 lb)		1,250 kg (2,750 lb)	
Power requirements	Power supplied by main unit			
Environment	Recommended: 21 to 25°C (69.8 to 77°F);			
	Required: 18 to 26°C (64.4 to 78.8°F); Relative humidity: 40 to 70% (no condensation)			
Standard accessories	1 carrier-type cassette, interleaf paper disposal box		Interleaf paper disposal box	
Options	Additional carrier-type cassettes (with dustproof covers)		Additional cassettes (with cassette trays and driver motors)	

*1. The autoloader connection kit is required for the PlateRite 8600SL when an autoloader is installed.
*2. Not including the weight of the plates.

Space requirements

Dimensions

	A	B	C	D
mm	1,302	1,253	860	2,440
inches	51.3"	49.4"	33.9"	96.1"

Including built-in bridge.

DAINIPPON SCREEN MFG. CO., LTD.

• This brochure was made using SPEKTA 2 screening.

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