SCREEN

PlateRite HD 8900

Thermal Plate Recorder

Creating a Future in Print

The best of 8-page CtP: A stunning combination of fine laser control and tried-and-true imaging technology enables productivity of over 60 plates per hour!

PlateRite HD 8900Z/S/E

The flagship model of the No. 1 CtP producer in the world, offering the very highest in quality and productivity, as well as made-in-Japan reliability

Speedy

Timely, super-high-speed output of more than 60 plates per hour

The high-end PlateRite HD 8900Z model*[1] features a 1,024-channel imaging head that makes the most of GLV technology, and can output a maximum of more than 60 plates per hour*[2]. A single PlateRite HD 8900Z can replace multiple CtP recorders in an existing production line, making it easier to manage processing while also reducing running costs and liquid waste. Best of all, it's fast enough to provide the almost instantaneous response required with today's small lots and ultra-short deadlines, so you can offer your clients a new kind of added value. The S and E models each feature a 512-channel imaging head, and productivity of up to 43 plates and 33 plates per hour, respectively.

*1 The Z model is scheduled for release in July 2011.

*2 At 2,400 dpi, with 1,030 x 800 mm (40.5" x 31.5") plates.

Supports a variety of plate sizes for different printing presses

The PlateRite HD 8900 supports plates as small as 304 x 305 mm (12.0" x 12.1") and as large as 1,165 x 950 mm (45.8" x 37.4"). What's more, since the unit is compatible with 6-mm leading and trailing edge clamps, it can output plates for a wide variety of printing presses. The amount of work required when setting plates in the press is reduced, and press operating ratios improve. This boosts the productivity offered by the PlateRite HD 8900's high-speed output even further.

Quality

Sharp, crisp halftone dots created with the latest technology

Thanks to its use of an imaging head with the latest GLV™ technology, and a wide range of high-quality screening options, ranging from Screen's unique AM/FM hybrid screening – Spekta and Spekta 2 – to high-end AM screening and FM screening, the PlateRite HD 8900 provides superior image quality suitable for a wide variety of applications with its standard 2,400 dpi resolution. What's more, the unit features an auto-focus function that enables more reliable imaging quality.

High-resolution 4,000 dpi* output

The S and E models offer a 4,000 dpi high resolution option. Thanks to its use of ultra-high-precision AM halftone dots, this option supports the production of plates for extremely detailed printing, including everything from high-resolution art printing to the accurate reproduction of small text sizes like those required for bond and other certificate printing.

* Available as an option for the S and E models.

Lenticular output mode* available

Lenticular output mode, which eliminates pixel shifting through spiral imaging correction, is now compatible with every output resolution supported by the PlateRite HD 8900. Lenticular output mode eliminates the interference moiré that is sometimes seen with lenticular lenses, and its benefits are particularly noticeable during the imaging of high-precision straight lines such as those in bar codes. The PlateRite HD 8900 can also be used to output high-quality plates for 3D lenticular printing when the 4,000 dpi high resolution option is selected.

* Available as an option for the S and E models.

It does not publish with the U.S. version.

Automation

Autoloader that maximizes productivity

Updated !

The PlateRite HD 8900 can be used with an autoloader system that automates the entire platemaking process, from plate loading through imaging and transport to developing and plate delivery. The autoloader system enables extended periods of continuous operation and contributes significantly to both increased productivity and better printing press operating ratios.
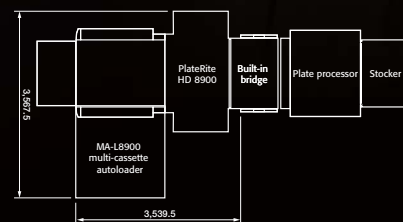
Load plates during platemaking

With the MA-L8900, plates can be loaded into the cassette during continuous operation, which avoids the downtime that normally occurs when additional plates are required. This helps ensure the best possible productivity and printing press operating ratios.

The system features an ergonomic design that is easy on operators, even when plates need to be added to the cassettes.

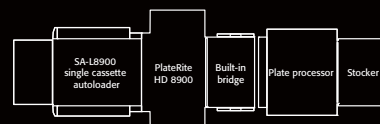### MA-L8900 multi-cassette autoloader

The MA-L8900 comes standard with three plate cassettes (up to five cassettes as an option), and both plate supply and switching between cassettes

can be fully automated. Each cassette holds up to 120 plates,* for a maximum of 600 plates stored in the autoloader, and if different size plates are loaded into separate cassettes, the autoloader can switch between cassettes flexibly and automatically as required for the job. Loading all the cassettes with the same size of plates is useful during extended periods of continuous operation.

SA-L8900 single cassette autoloader

The SA-L8900 autoloader features a single cassette that can hold up to 120 plates.* It automatically

detects and removes interleaf paper from between the plates, and the transport system only makes contact with the rear side of the plate, eliminating the risk of damage to the sensitive emulsion side of the plate. Manual plate loading is also possible, so operators have the flexibility to use different sized plates whenever required.

Timely, efficient production
with super-high output speeds

Over 60 plates*
per hour

* Z model

Remarkably high quality

Maximum output
resolution of
4,000 dpi*

* S and E models

Even better operability

Autoloading
system

Gentle to employees
and the environment

Environmentally
conscious CtP

Remote checking of CtP status available at all times

• Remote monitoring system
Remote monitoring allows users to keep an eye on CtP operating conditions and check output history from a remote location, using a web browser or e-mail. E-mails can also be sent automatically to a 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 (support contract required).

• Remote control*
An external PC can effectively function as a subpanel of the PlateRite HD 8900's actual operation panel, allowing users at remote locations to make CtP settings and send commands to the unit. This improves operability for users, while also making it possible for technicians at a distant service center to perform remote maintenance.

* Under development.

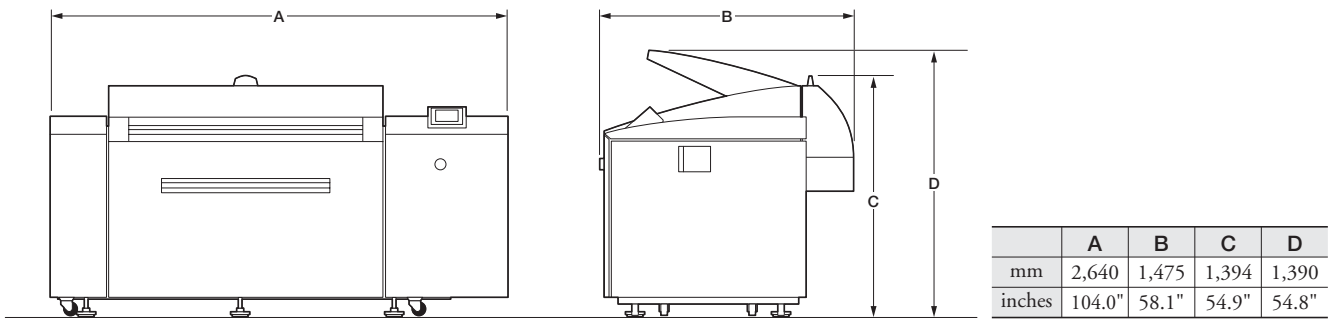## Ecology   Gentle to the environment

Dainippon Screen applies an environmental impact assessment to products as a form of design review. The PlateRite HD 8900, like the rest of Screen's products, has been developed with the goal of minimizing energy use and environmental impact while maximizing safety.

• Energy use during operations has been reduced up to XX%.*
• Features a low-energy mode that reduces energy use by about 50% while the unit is idle.
• The unit's low-environmental-impact design conforms with RoHS standards.
• The unit is compatible with chemical-less plates from a variety of manufacturers.

* When comparing the PlateRite HD 8900S with the PlateRite 8600S.

Dimensions

	A	B	C	D
mm	2,640	1,475	1,394	1,390
inches	104.0"	58.1"	54.9"	54.8"

PlateRite HD 8900Z/S/E specifications

Product Name	PlateRite HD 8900Z	PlateRite HD 8900S	PlateRite HD 8900E
Model Name	PT-R8900		
Recording system	External drum		
Light source	1,024-channel laser diode	512-channel laser diode	
Plate size	Maximum: 1,165 x 950 mm (45.8" x 37.4"); Minimum: 304 x 305 mm (12.0" x 12.1")*1		
Exposure size	Maximum: 1,165 x 938 mm (45.8" x 36.9")		
Plate	Thermal aluminum plate		
Plate thickness	0.15 to 0.3 mm (5.9 mil to 11.8 mil) [0.4 mm (15.7 mil)*2 available as an option]		
Resolutions	1,200*3/2,400/2,438/2,540 dpi	1,200*3/2,400/2,438/2,540/4,000 dpi (4,000 dpi is only available when the high resolution option is selected)	
Repeatability	±5 μm*4		
Productivity *5	60 plates/hr at 2,400 dpi (1,030 x 800 mm/40.5" x 31.4" plates)	43 plates/hr at 2,400 dpi (1,030 x 800 mm/40.5" x 31.4" plates)	33 plates/hr at 2,400 dpi (1,030 x 800 mm/40.5" x 31.4" plates)
Interface	S-PIF		
Punch systems	Screen, Heidel, Heidelbach W, Protocol, and Komori punch systems are standard; all others are special orders. (Up to twelve individual punch blocks can be selected and mounted, depending on the plate sizes and printing press types being used.)		
Dimensions (W x D x H)	Main unit: 2,640 x 1,475 x 1,394 mm (104" x 58.1" x 54.9")(blower unit is internal)		
Weight	Main unit: 1,150 kg (2530 lb); Chiller unit: 63 kg (138.6 lb)		
Power requirements	Main unit: Single phase 200 V to 240 V, 16 A, 3.2 kW (Approved UL, CSA, Declared CE) Chiller unit: Single phase 200 V to 240 V, 4 A, 0.7 kW (Approved UL, CSA, Declared CE) [SA-L and MA-L are supplied by main unit.]	Main unit: Single phase 200 V to 240 V, 16 A, 3.2 kW (Approved UL, CSA, Declared CE) Chiller unit*6: Single phase 200 V to 240 V, 3 A, 0.6 kW (Approved UL, CSA, Declared CE) [SA-L and MA-L are 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)		
Required options	MA-L8900, SA-L8900, plate insertion table		
Options	Plate transport system to connect with plate processor (built-in bridge, AT-T8001R, AT-M8001), various printing press punches, support for 0.4 mm (15.7 mil) thickness, high resolution (4,000 dpi support)*7, lenticular printing plate output*7, air filter unit (AF-180), upgrade to Z or S specifications.		

*1 Plates wider than 590 mm (23.3") and narrower than 610 mm (24") cannot be used. *2 Plates that are 0.4 mm (15.7 mil) thick must be 900 x 770 mm (35.5" x 30.4") or larger.
*3 1,200 dpi uses 2,400 dpi double dots. *4 Over four consecutive exposures on one plate at 23°C (73.4°F) and 60% relative humidity.*5 Productivity may vary depending on the sensitivity of the plate.
*6 The North American specifications may be single phase 200/208/220/230/240 V, 8 A, 1.4 kW. *7 Option must be selected before the unit is shipped from the factory.

Autoloader specifications

Product Name	SA-L8900	MA-L8900
Compatible models*1	PlateRite 8900Z/S/E	
No. of cassettes	1	Up to 5 cassettes (3 cassettes as standard)
Cassette capacity*2	100 plates (0.15 to 0.3 mm thickness) 75 plates (up to 0.3 mm thickness)	100 plates per casette (0.15 to 0.3 mm thickness) 75 plates per casette (up to 0.3 mm thickness)
Plate size	Maximum: 1,165 x 950 mm (45.8" x 37.4"); Minimum: 304 x 305 mm (12.0" x 12.1")	
Plate thickness	0.15 to 0.4 mm (5.9 mil to 15.7 mil)	
Dimensions (W x D x H)	1,810 x 2,330 x 1,530 mm (71.3" x 91.8" x 60.3")	3,345 x 2,330 x 1,530 mm (131.7" x 91.8" x 60.3")
Weight*3	600 kg (1,320 lb)	1,200 kg (2,640 lb)
Power requirements	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)	
Options	Additional carrier-type cassette (with dustproof cover) Left layout kit (for filed upgrade is under consideration)	Additional cassette Left layout as factory option

*1. PlateRite 8000(N) series can not be connected. *2. When loading only 0.24mm plate, capacity is 120 plates per cassette.
*3. Not including the weight of the plates.

DAINIPPON SCREEN MFG. CO., LTD.

• This brochure was made using SPEKTA 2 screening.