

PlateRite Ultima 16000

Thermal Plate Recorder

CTP



Innovation & Reliability

Unprecedented speed and quality in a large, multi-format platesetter

Dainippon Screen's PlateRite Ultima is a large, multi-format thermal platesetter that can output 16-page plates, as well as every other plate size down to 4-page format. Thanks to its advanced 512-channel imaging head, which uses GLV™ (grating light valve™) technology, it outputs all these plates at a speed and quality that is sure to amaze you and your customers.



Ultra high quality imaging

For 4-page to 16-page plates

Large, multi-format output—from 4-page to 16-page

The PlateRite Ultima can output large-format plates up to 1,470 x 1,165 mm (57.9" x 45.9") in size. It can also output plates as small as 650 x 550 mm (25.6" x 21.6"). The PlateRite Ultima is in a class of its own—a true multi-format platesetter.

Advanced 512-channel imaging head

Screen has used GLV™ technology to develop a revolutionary multi-channel imaging head that enables remarkably high-speed and high-quality exposure. This cutting-edge imaging head features 512 individual laser beams that expose plates in wide swathes, enabling the PlateRite Ultima to deliver unbeatable throughput without sacrificing quality.

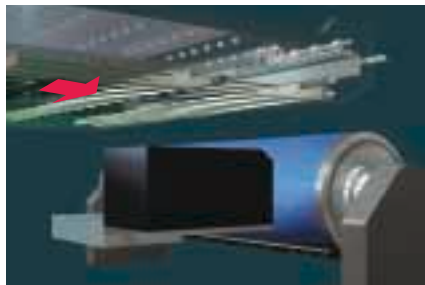
Automatic inline punching

With inline punching, plates are punched immediately before being mounted on the drum. Inline punching provides greater registration accuracy than either manual or off-line punching. It also helps eliminate human error and supports faster press make-ready. Up to ten punch blocks can be mounted in the platesetter and then selected during output according to the plate size and press type required for the job.

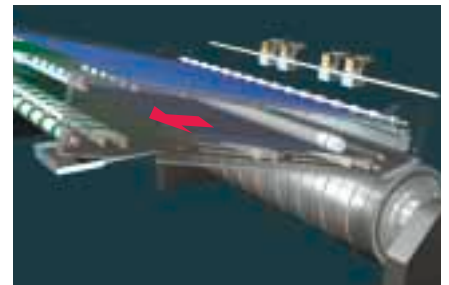
Reliable automatic plate loading

Automation is a key element in the handling of large format plates. Screen's renowned and reliable plate handling systems are integrated into the design of the PlateRite Ultima 16000, and a range of scalable automation solutions are available. 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. The optional automatic plate loaders are available in two types, namely two cassette type and four cassette types. Each cassette can hold 100 sheets of 16 page 0.3mm (11.8 mil) plate. So maximum number of plate can be held is 400. Interleaf paper is removed automatically before plate are loaded.

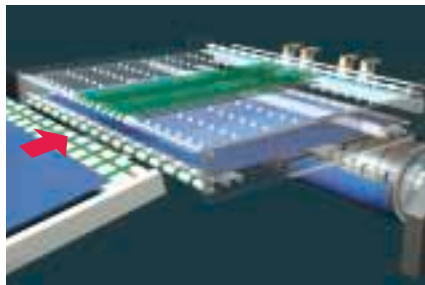
Cutting-edge media handling



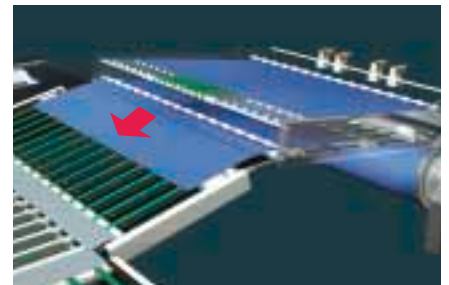
1 While the current plate is being exposed, the plate scheduled to be exposed next is punched and then moved to the standby cassette's upper tray.



2 The plate that was just exposed is transferred to the standby cassette's lower tray.



3 The plate that was in the standby cassette's upper tray is wrapped around the drum, and the next plate is transferred to the standby cassette's upper tray.



4 While the plate is being exposed, the plate scheduled to be exposed next is punched and then moved to the standby cassette's upper tray. The plate that was just exposed is transferred from the standby cassette's lower tray to the automatic inline developer.

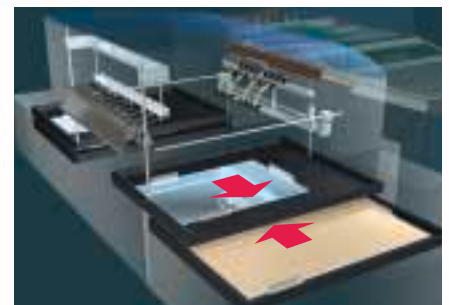
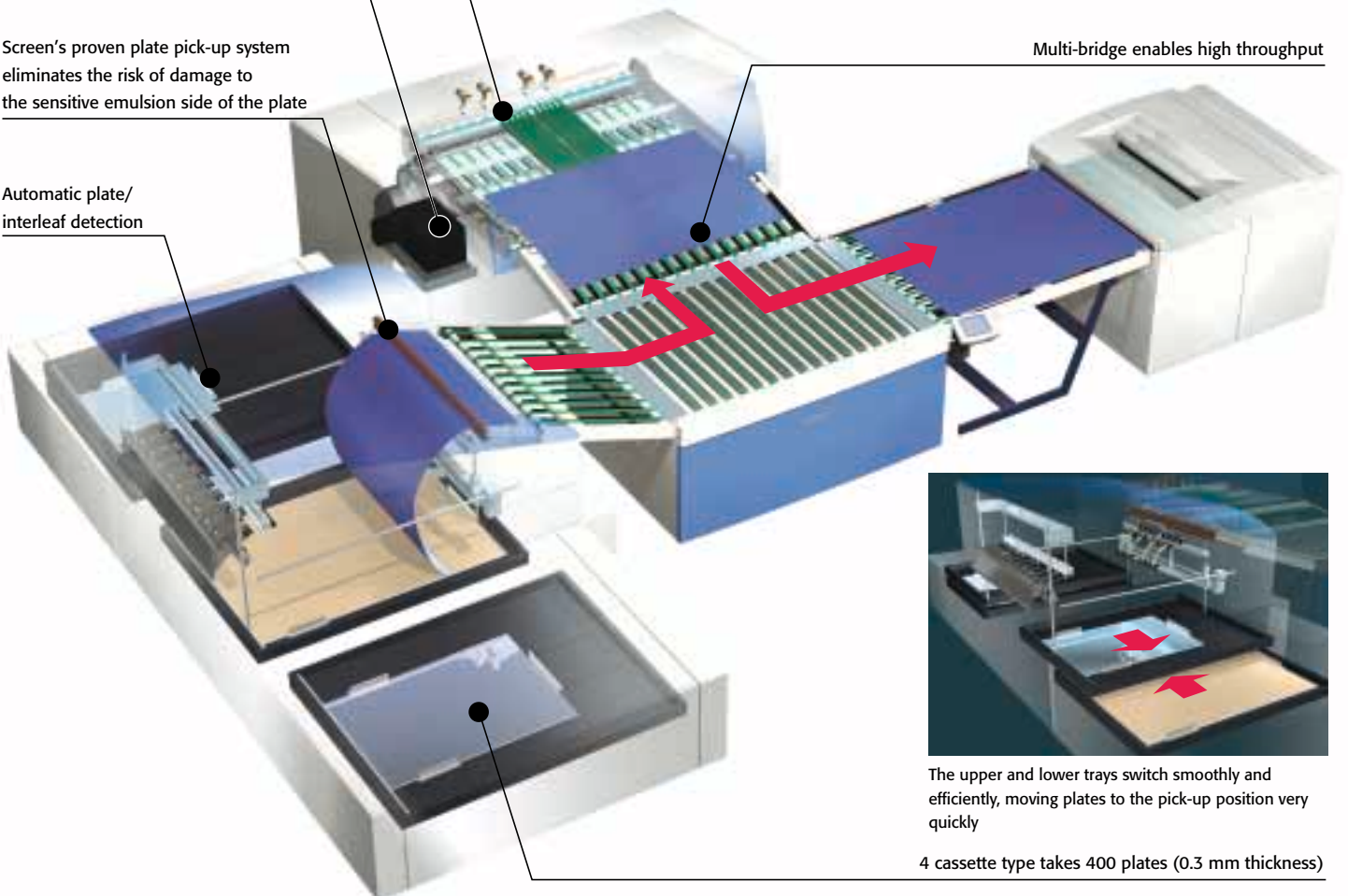
Automatic inline press punching system

Advanced GLV™ imaging head for large-format imaging

Screen's proven plate pick-up system eliminates the risk of damage to the sensitive emulsion side of the plate

Automatic plate/interleaf detection

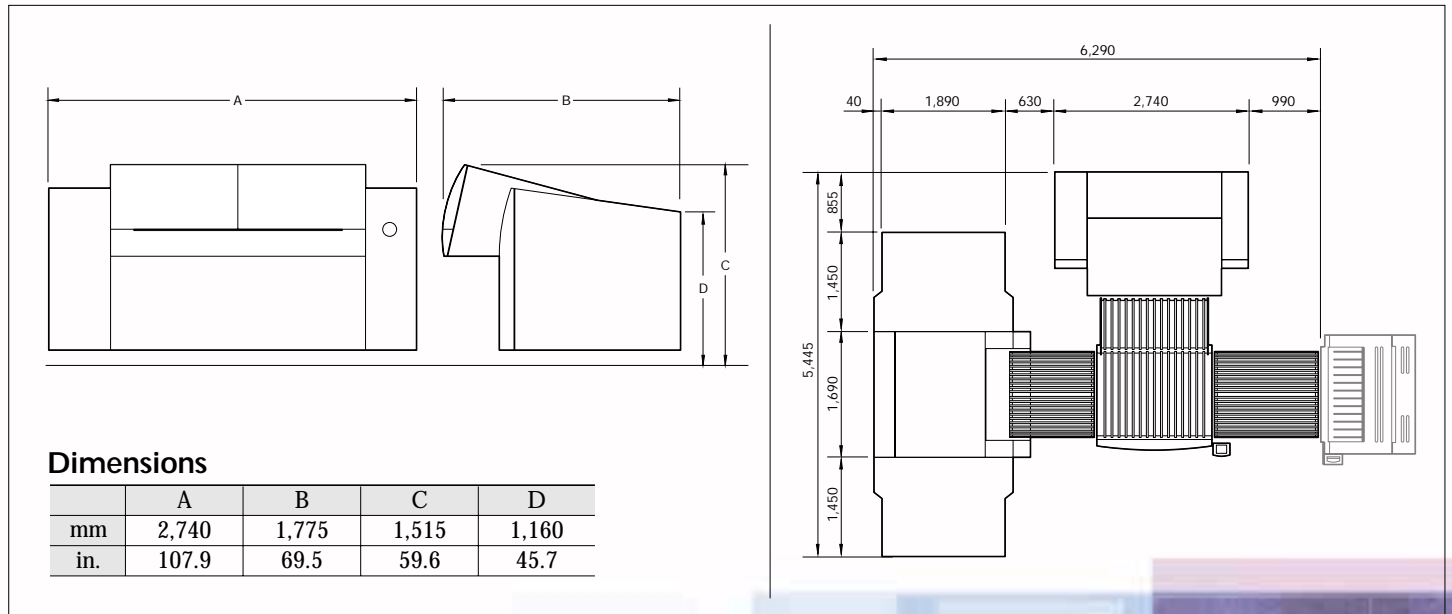
Multi-bridge enables high throughput



The upper and lower trays switch smoothly and efficiently, moving plates to the pick-up position very quickly

4 cassette type takes 400 plates (0.3 mm thickness)

Space requirements



Dimensions

	A	B	C	D
mm	2,740	1,775	1,515	1,160
in.	107.9	69.5	59.6	45.7

PlateRite Ultima 16000 specifications

Recording system	External drum
Light source	Infrared laser diodes
Light system	Multi-channel thermal imaging head (with GLV™ technology)
Plate size	Maximum 1,470 x 1,165 mm (57.9" x 45.9") Minimum 650 x 550 mm (25.6" x 21.6")
Exposure size	Maximum 1,470 x 1,154 mm (57.9" x 45.5") (6-mm leading edge and 5-mm trailing edge clamps)
Media	Thermal (infrared sensitive plates)
Media thickness	0.2 mm to 0.4 mm (7.8 mil to 15.7 mil)
Resolution	1200/2400/2438/2540 dpi
Repeatability	±5 microns*
Productivity	MAX. 23 plates/hr at 2,400dpi (1,448 x 1,143 mm/57" x 45" plates)**
Interface	Fast PIF
Plate transport	Automated with optional multi cassette autoloaders Semi-automated with optional plate set conveyor
Punch systems (optional)	SCREEN, Heidelberg, Protocol, Komori, Stoessor, and others
Weight	Main body: 1,640 kg (3,608 lb.); 2 cassette : 1,005 kg (2,211 lb.) / 4 cassette : 1,395 kg (3,069 lb.)
Environment	23°C ±2°C (73.4°F ±3.6°F), 50% to 70% relative humidity (non-condensing)
Power requirements	Main body : Single phase 200V to 240V (+6% to -10%), Max 25A, Max 5.0kW*** Blower : Single phase 200V to 230V 10A, 1.2kW

* Over four consecutive exposures on one plate at 23°C (73.4°F) and 60% relative humidity.

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

*** Includes power requirements of chiller, MA-L, & AT-M.

- Grating Light Valve™ and GLV™ are trademarks of Silicon Light Machines.
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DAINIPPON SCREEN MFG. CO., LTD.

HEAD OFFICE

• Terauchi-agari 4-chome, Horikawa-dori, Kamigyo-ku, Kyoto, 602-8585 Japan/Phone +81-75-414-7610/Fax +81-75-414-7608

SCREEN (USA)

• 5110 Tollview Dr., Rolling Meadows, IL 60008, USA/Phone 847-870-7400/Fax 847-870-0149 www.screenusa.com

DAINIPPON SCREEN (DEUTSCHLAND) GmbH

• Mundelheimer Weg 39, 40472 Düsseldorf, Germany/Phone 0211-472701/Fax 0211-4727199/Telex 858-4438 DSDD D

DAINIPPON SCREEN (U.K.) LTD.

• Michigan Drive, Tongwell, Milton Keynes, Buckinghamshire MK15 8HT, UK/Phone 01908-848500/Fax 01908-848501 www.screen.co.uk

DAINIPPON SCREEN (NEDERLAND) BV

• Bouwerij 46, 1185XX Amstelveen, Holland/Phone 020-4567800/Fax 020-4567805 www.screeneuropa.com

SCREEN FRANCE

• 2-1, Paris Nord III, 12 Rue des Chardonnerets, B.P. 50315, F-95940 ROISSY C.D.G. Cedex, France/Phone 1-48-17-86-00/Fax 1-48-17-86-01

DAINIPPON SCREEN SINGAPORE PTE. LTD.

• 29, Kaki Bukit View, Kaki Bukit Techpark II, Singapore 415963/Phone 67493833/Fax 67499010 www.screensp.com.sg

DAINIPPON SCREEN (CHINA) LTD.

• 6th Floor, 414 Kwun Tong Road, Kwun Tong, Kowloon, Hong Kong/Phone 2953-0038/Fax 2755-8683

• Beijing office /Phone 010-6708-9271, 9272, 9273/Fax 010-6505-4975 (China)

• Shanghai office /Phone 021-6466-4501/Fax 021-6466-4503 (China)

• Guangzhou office/Phone 020-3891-1112/Fax 020-3891-1036 (China)

DAINIPPON SCREEN (TAIWAN) CO., LTD.

• 4F No. 126-1, Ming Tsu West Rd., Taipei, Taiwan/Phone 02-25862711/Fax 02-25914367

DAINIPPON SCREEN (KOREA) CO., LTD.

• 8th Yonsei Bongnae B/D 48-3, 1Ga, Bongnae-Dong, Joong-Gu, Seoul 100-161, Korea/Phone 02-7766-786/Fax 02-7766-787

DAINIPPON SCREEN (AUSTRALIA) PTY. LTD.

• Unit 2, 207-209 Young Street, Waterloo, NSW 2017, Australia/Phone 02-9310-1314/Fax 02-9310-3566

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