

PlateRite News

Thermal Plate Recorder

CTP



The PlateRite News: Packed with remarkable new technology

SCREEN, THE PRINTING INDUSTRY'S TOP MANUFACTURER OF THERMAL CTP EQUIPMENT, IS PROUD TO ANNOUNCE THE RELEASE OF THE PLATERITE NEWS, A NEW THERMAL CTP UNIT FOR THE NEWSPAPER INDUSTRY. THE PLATERITE NEWS USES THE TECHNOLOGY THAT HAS GIVEN THE ENTIRE PLATERITE SERIES ITS REPUTATION FOR SUPERIOR QUALITY, EFFICIENCY, STABILITY AND PRODUCTIVITY, SO THAT IT CAN EVEN KEEP UP WITH THE DEMANDS OF NEWSPAPER PRODUCTION, WHERE TIME AND RELIABILITY ARE ALWAYS OF THE ESSENCE.

THE PLATERITE NEWS USES A NEXT-GENERATION EXPOSURE HEAD THAT FEATURES GLV™ TECHNOLOGY. SCREEN HAS USED THIS CUTTING-EDGE IMAGING TECHNOLOGY TO CREATE A 512-CHANNEL EXPOSURE HEAD THAT CAN IMAGE A PLATE AT LIGHTNING SPEED. THANKS TO ITS ADVANCED EXPOSURE HEAD, THE PLATERITE NEWS CAN OUTPUT UP TO 35 PLATES PER HOUR, ALL WITH THE PRECISE HALFTONE DOTS ENABLED BY THERMAL IMAGING. THE UNIT ALSO FEATURES A VARIETY OF AUTOMATED SYSTEMS THAT SUPPORT ITS HIGH PRODUCTIVITY WHILE REDUCING THE STRAIN ON OPERATORS.

FLEXIBLE ENOUGH FOR A VARIETY OF NEWSPAPER INDUSTRY WORKFLOWS, THE PLATERITE NEWS IS THE ULTIMATE THERMAL CTP FOR NEWSPAPER.

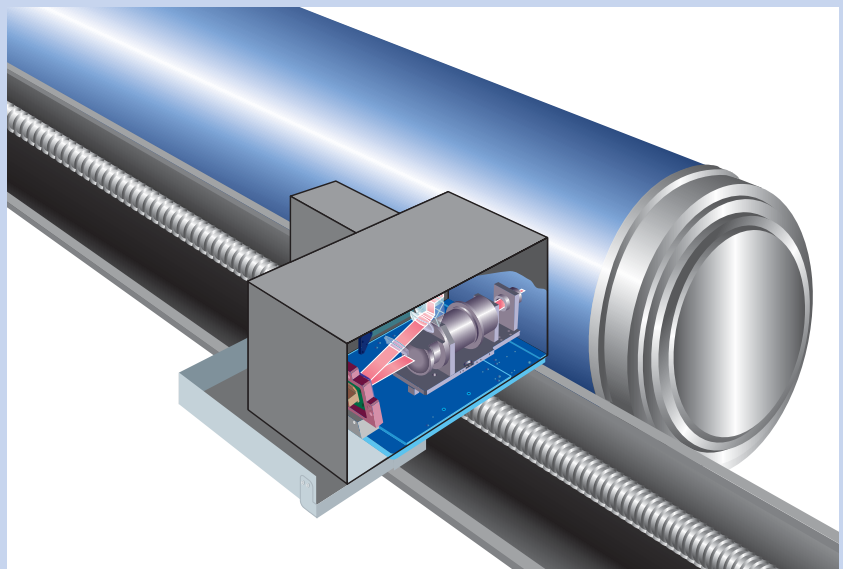


What is GLV™ (Grating Light Valve™)?

GLV™ technology features MEMS (micro-electro-mechanical systems) transmission and sensors, and is based around light sources that take advantage of semiconductor technology and light interference methods used in biotechnology. The GLV™ structure consists of an array of parallel ribbons on a semiconductor board, which diffract a single light source into multiple channels of light.

Screen has developed a 512-channel imaging head using GLV™ technology. This unique imaging head enables high-precision, high-speed imaging without requiring any reduction in rotation speed. The result is a remarkable jump in output productivity.

Grating Light valve™ and GLV™ are trademarks of Silicon Light Machines (headquartered in the United States).



Advanced Technology

Versatility and productivity

512-channel exposure head for dramatically higher productivity

The PlateRite News features an exposure head with 512 laser diode channels. This head can image a wider swath of the plate in a single rotation, enabling output of a remarkable 35 plates per hour at 1,200 dpi. The PlateRite News gives you the productivity of the future today!

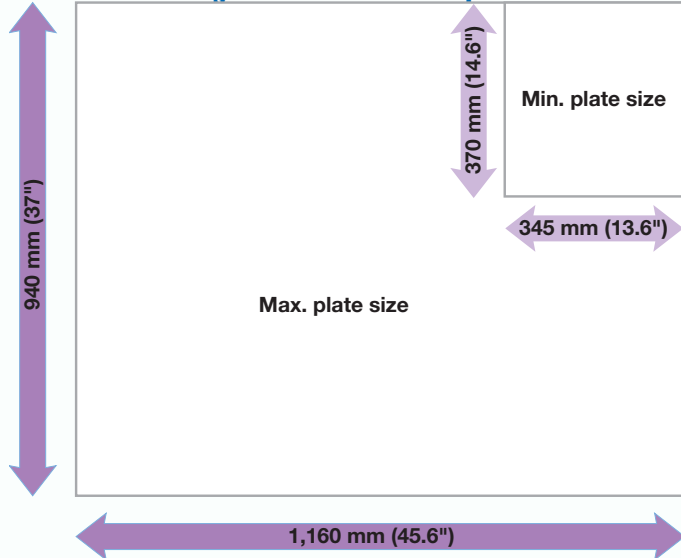
Quality a cut above the already high standard for thermal platesetters

The PlateRite News' 512-channel bar laser system features seamless construction that avoids the need to power down the laser beam, so imaging can be carried out efficiently and with no loss of precision. The unusually high number of channels – the highest in the world – enables remarkable productivity, without the need to change drum rotation rates. The high number of channels also makes it possible to create high-precision, extremely minute halftone dot forms. Thanks to its remarkable imaging head, the PlateRite News offers quality a notch above the already high quality users expect from thermal platesetters.

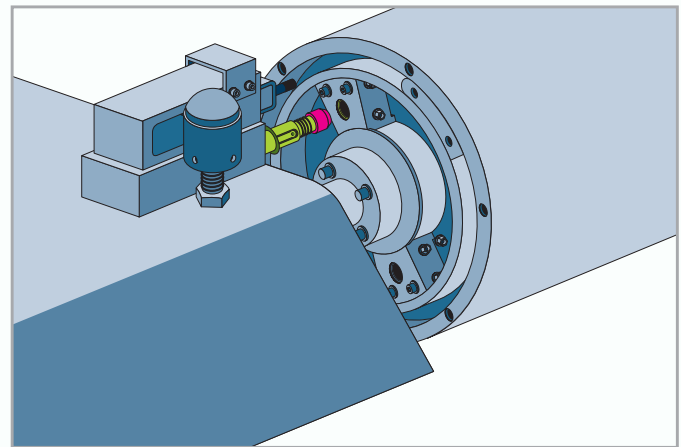
A variety of plate sizes

The PlateRite News is perfect for press rooms that use multiple plate sizes. It can output plates for most presses in the B3 to B1 range, with a minimum plate size of 345 x 370 mm (13.6" x 14.6") and a maximum plate size of 1,160 x 940 mm (45.6" x 37"), for plates ranging from 0.2 mm (8 mil) to 0.3 mm (12 mil) thick.

Plate auto-balancing takes the burden off operators



The PlateRite News' auto-balancing feature makes it possible to use different sized plates without making any manual adjustments for correct drum balance. The operator simply selects the desired type of plate, and the PlateRite News automatically makes the necessary adjustments to create perfect drum balance for each plate size. The PlateRite News also features separate loading and unloading bays, so that one plate can be readied for loading while another is being exposed.



Semi-automatic loading

Maximum productivity can be achieved with the semi-automatic loading mechanism (standard), as well as with optional automatic loading.

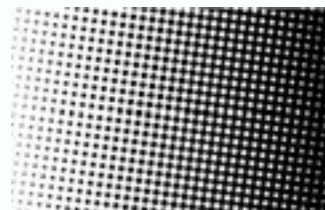
Automated CTP production line

The PlateRite News, which features Screen's reliable plate-handling technology, is the perfect core for a fully automated plate production line. Simply add the plate autoloader and a processor bridge to create a workflow that takes care of everything from plate loading to developing automatically. Once the plate cartridges are loaded into the autoloader, operators can focus on other tasks.

Support Spekta screening

The PlateRite News support Spekta screening. Spekta combines the strengths of both conventional AM screening methods and advanced FM (stochastic) screening. This makes it possible to produce extraordinary quality with ordinary screen rulings.

All the dots in Spekta screens are randomized, so that moiré and visible rosette patterns can never occur. And by applying FM screening methods to highlights and shadow areas, Spekta produces breathtaking detail and color completely free of jagged edges and broken lines. Spekta screening and the PlateRite News make an unbeatable combination.



AM screening



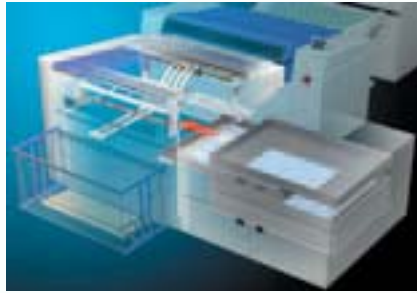
Spekta

If automated plate production is part of your plan for CTP success, the PlateRite News has what you're looking for

Multi-cassette loading



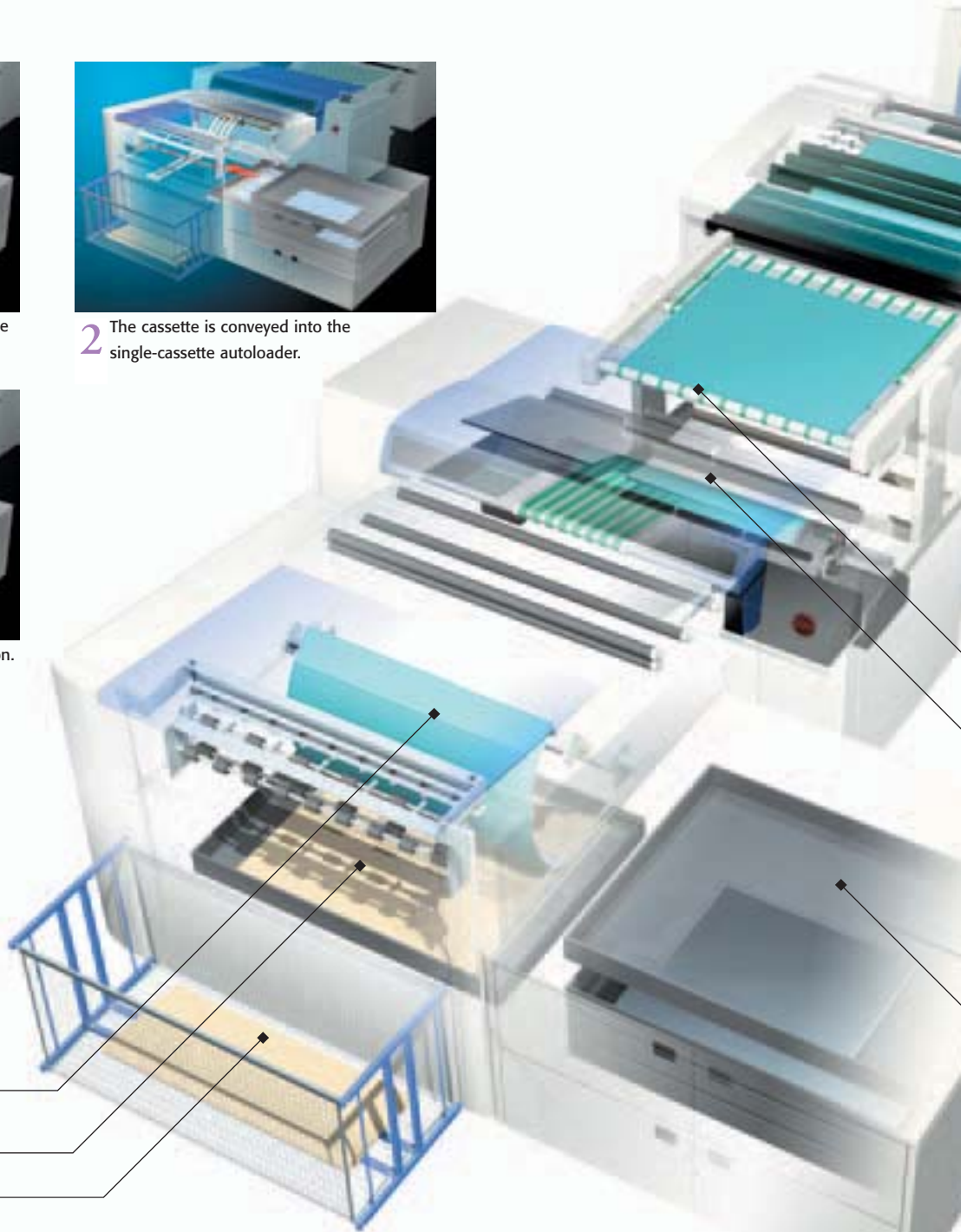
1 The lifting unit moves to the same level as the cassette that holds the selected plate type.



2 The cassette is conveyed into the single-cassette autoloader.



3 The cassette is lifted to the loading position.



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

Sensor automatically detects plate/interleaf paper

External collection box for ejected interleaf paper

Plate loading



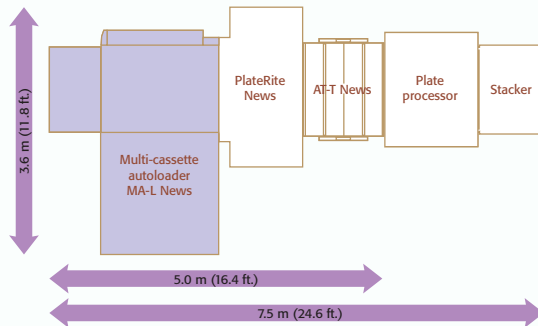
1 A sensor moves into place to detect whether the first layer is a plate or interleaf paper.



2 Suction pads grip the backside of the plate (no contact is made with the front) and it is loaded inside the PlateRite.

MA-L News multi-cassette autoloader (option)

The MA-L News 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 optional. This makes it possible to image up to 500 plates of five different sizes without operator intervention.



Processor bridge

The AT-T processor bridge automates plate transport between the PlateRite News and the inline processor. Exposed plates are moved from the PlateRite onto the bridge. The plates can then be conveyed from the bridge to the oven or plate processor.

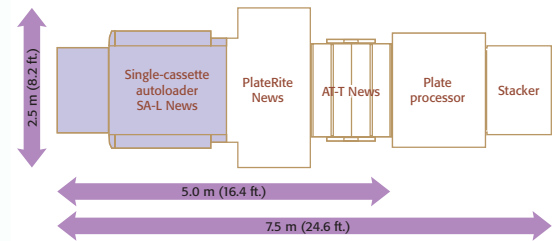
Processor bridge completes automated line, and is compatible with major processor types

Inline punching system (option)

MA-L News
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

SA-L News single-cassette autoloader (option)

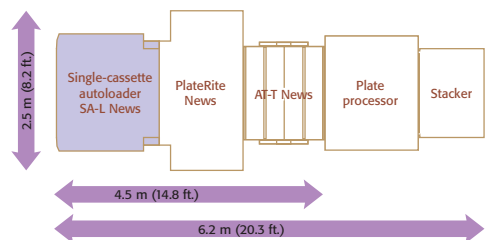
The SA-L News single-cassette autoloader can hold up to 100 plates. It automatically removes interleaf paper and sends it to an external collection box just before each plate is loaded. No contact is made with the sensitive emulsion side of the plate at any stage during transport, eliminating the risk of damage to the plate. Manual loading is also possible, providing the flexibility to use different sized plates whenever required.



SA-L News single-cassette autoloader (option)

The SA-L News single-cassette autoloader is an affordable unit that offers automated loading of up to 100 plates.* It is somewhat smaller and lighter than the SA-L News with slipsheet removal, but like the SA-L News, it transports plates without any contact to the sensitive emulsion side, so you can be sure your plates will arrive at the platesetter in perfect condition for imaging.

* Manual removal of interleaf paper is required.



3 The same sensor again detects for plate or interleaf paper.



4 The interleaf paper is lifted away and ejected to an external collection box.

Take full advantage of CTP production with these solutions

Trueflow Rite News

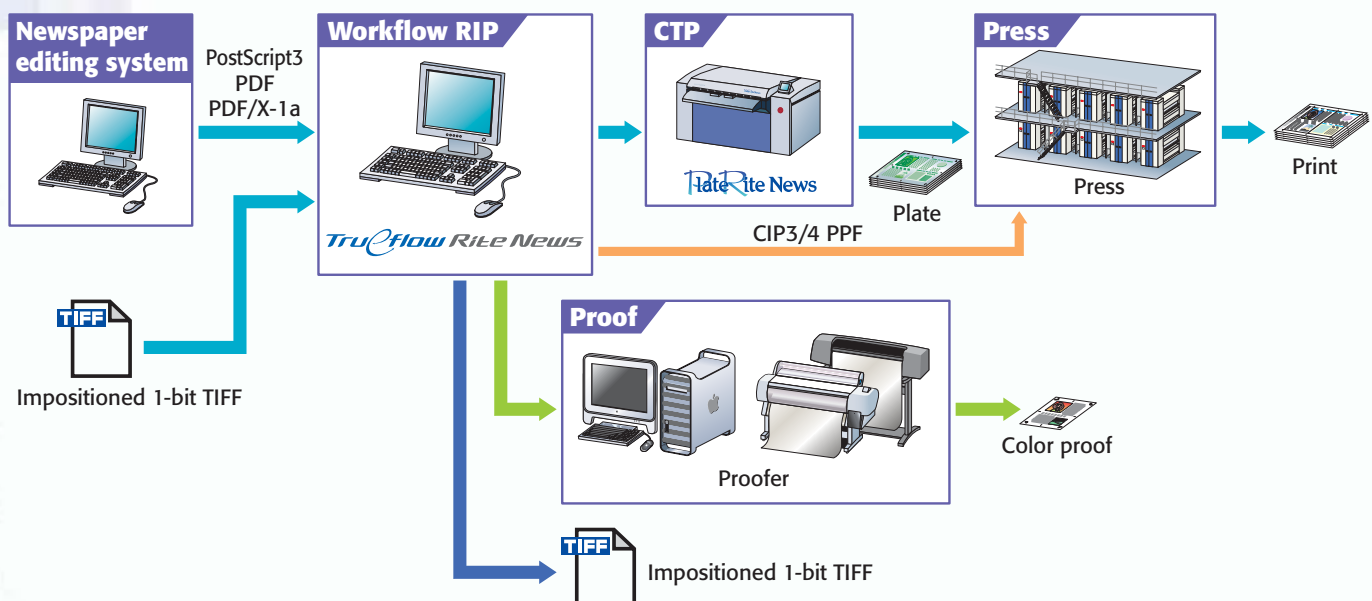
Intelligent RIP'ing power for PDF workflows



Trueflow Rite News provides an automated CTP workflow solution with all the functionality required to make newspaper production run smoothly. Based on PDF 1.4/1.5 interpreter technology, Trueflow Rite News features a drag-and-drop icon job flow graphical user interface (GUI) that allows operators to create intuitive job tickets for processing files. Files can be output across a network, and plate output can be easily repeated for any job that has already been processed. Job progress can be monitored in real time in networked environments with a unique built-in email notification feature for remote operators. Trueflow Rite News can also output CIP3/4 PPF ink-key preset data for press and postpress systems. Trueflow Rite News is designed specifically for newspaper production and features JDF-compliant job tickets for automated output.

Trueflow Rite News offers two automated workflow paths involving hot folders and intuitive job tickets to create custom workflow paths for automatic output. Trueflow Rite News accepts standard PDF job files, such as PDF/X1-a, Postscript 3 and Imposed PDF. The 1-bit TIFF import option allows operators to import imposed 1-bit TIFF files for output as well.

With Trueflow Rite News' imposition option, operators can use an intelligent job container workflow to accept pages arriving late by automated parallel processing of multiple page and page-independent late-binding files in an output-ready imposition signature. The job container workflow helps eliminate delays and ensures consistent productivity for plate output-ready jobs.

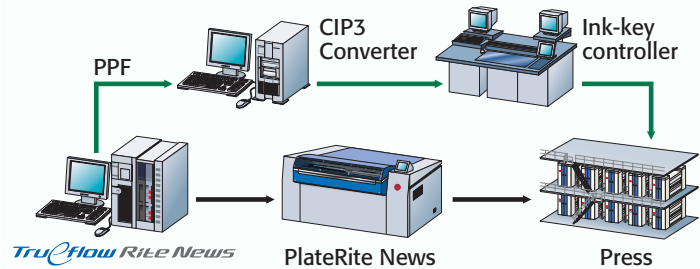


CIP3/CIP4 support

Keeping you on the cutting edge

Screen is a founding member of both CIP3 (Cooperation for Integration of Prepress, Press and PostPress) and CIP4 (Cooperation for Integration of Processes in Prepress, Press and PostPress). As part of these initiatives, Screen works with major printing press manufacturers to implement innovations such as PPF (Print Production Format). Implementing solutions such as PPF is another way to reduce makeready times and ensure streamlined production.

Screen continues to work in the industry for further prepress, press and postpress integration, especially with CIP4's XML-based Job Definition Format (JDF). With Screen, you can be sure that the equipment you use today will be in step with the solutions of tomorrow.

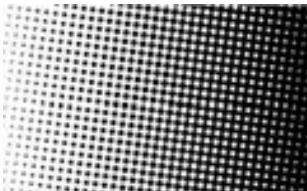


SPEKTA NEWS

AM/FM hybrid screening

The PlateRite News supports Spekta screening. Spekta combines the strengths of both conventional AM screening methods and advanced FM (stochastic) screening. This makes it possible to produce extraordinary quality with ordinary screen rulings.

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AM screening



Spekta



Spekta



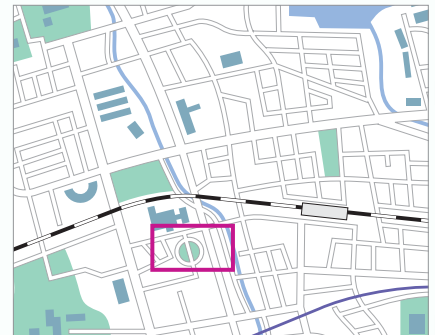
AM screening



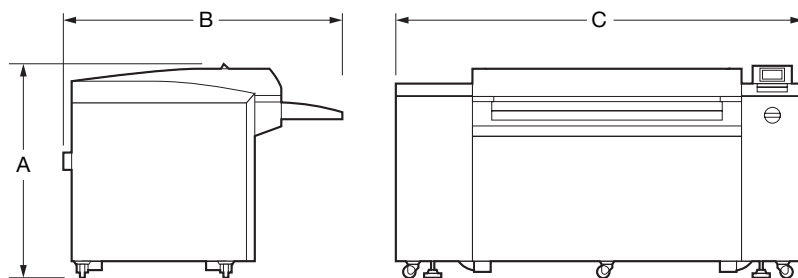
Spekta



AM screening



Space requirements



Dimensions

| | A | B | C |
|--------|-------|-------|-------|
| mm | 1,263 | 1,795 | 2,420 |
| inches | 49.7" | 70.6" | 95.2" |

Specifications

| | |
|--------------------------|--|
| Recording system | External drum |
| Light source | 512-channel imaging head (with GLV™ technology) |
| Plate size* | Maximum 1,160 x 940 mm (45.6" x 37") Minimum 345 x 370 mm (13.6" x 14.6") |
| Exposure size (maximum) | Across the drum: Same as plate size Around the drum: 9 mm (0.35") smaller than plate size |
| Media | Thermal (infrared sensitive) plates |
| Media thickness | 0.2 to 0.3 mm (7.9 to 11.8 mil) |
| Resolutions | 1,000/1,016/1,200/1,270 dpi |
| Repeatability | 10 microns** |
| Productivity | Max. 35 plates/hr at 1,200 dpi (890 x 600 mm/35.0" x 23.6" plates)*** |
| Interface | Fast PIF |
| Plate transport | Semi-automatic loading (standard) / Fully-automatic loading (optional) |
| Punch systems (optional) | SCREEN, Heidelberg, Heidelberg-Bacher, Protocol, Komori, Stoesser, Grapho Metronic, others |
| Dimensions (W x D x H) | 2,420 x 1,795 x 1,263 mm (95.2" x 70.6" x 49.7") |
| Weight | Approx. 1,150 kg (2,530 lbs.) |
| Environment | 23C 2C (73.4F 3.6F), 50% to 70% relative humidity (non-condensing) |
| Power requirements | Single phase 200 to 240 V (+6% to -10%), 25.51 A, 5.08 kW**** |

* Plate widths between 590 mm and 610 mm cannot be loaded.

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

*** Output speed may vary depending on the sensitivity of the media and clamp size selection.

**** Includes power requirements of SA-L, MA-L, AT-T, and blower unit.

Autoloader specifications

| Model name | MA-News | SA-L News | SA-L News |
|------------------------|---|--|---|
| Plate transport | Fully automatic loading and automatic interleaf removal | Fully automatic loading and automatic interleaf removal | Fully auto loading and manual interleaf removal |
| Cassette capacity | 100 plates per cassette | 100 plates | 100 plates |
| No. of cassettes | 3 cassettes (standard), additional 2 cassettes (optional) | 1 cassette | 1 cassette |
| Cassette transport | Fully-automatic (horizontal/vertical) | — | — |
| Cleaning function | Cleaning roller (cleans both sides of plate) | | |
| Cassette changeover | 2 minutes (between 1st and 5th cassette) | — | — |
| Dimensions (W x D x H) | 3,213 x 2,120 x 1,295 mm (126.5" x 83.5" x 51.0") | 1,758 x 2,120 x 1,295 mm (69.2" x 83.5" x 51.0") | 1,590 x 1,288 x 1,173 mm (62.6" x 50.7" x 46.2") |
| Weight | 1,250 kg (2,753 lbs.) Plate supply section: 530 kg (1,166 lbs.) Cassette collection section: 720 kg (1,586 lbs.)* | 600 kg (1,321 lbs.) | Main unit approx. 180 kg (397 lbs.) Carrier 66 kg (146 lbs.) |
| Power | Single phase 200 to 230 V 10%, 5 A, 1.0 kW | | |
| Environment | 23°C 2°C (73.4°F 3.6°F), 40% to 70% relative humidity (non-condensing) | | |
| Standard accessories | 3 cassettes, interleaf paper collection box | Plate cassette and carrier Interleaf paper collection box | Plate cassette and carrier |
| Options | Additional plate cassettes and carriers | | |

* Increases by 500 kg (1,102 lbs.) when fully loaded with cassettes and plates.

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- Printed on recycled paper.

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