SCREEN

PlateRite Ultima Series

Multi-Format Thermal Plate Recorders

Informações e vendas:
Alpha Service Consultoria e Qualidade Gráfica
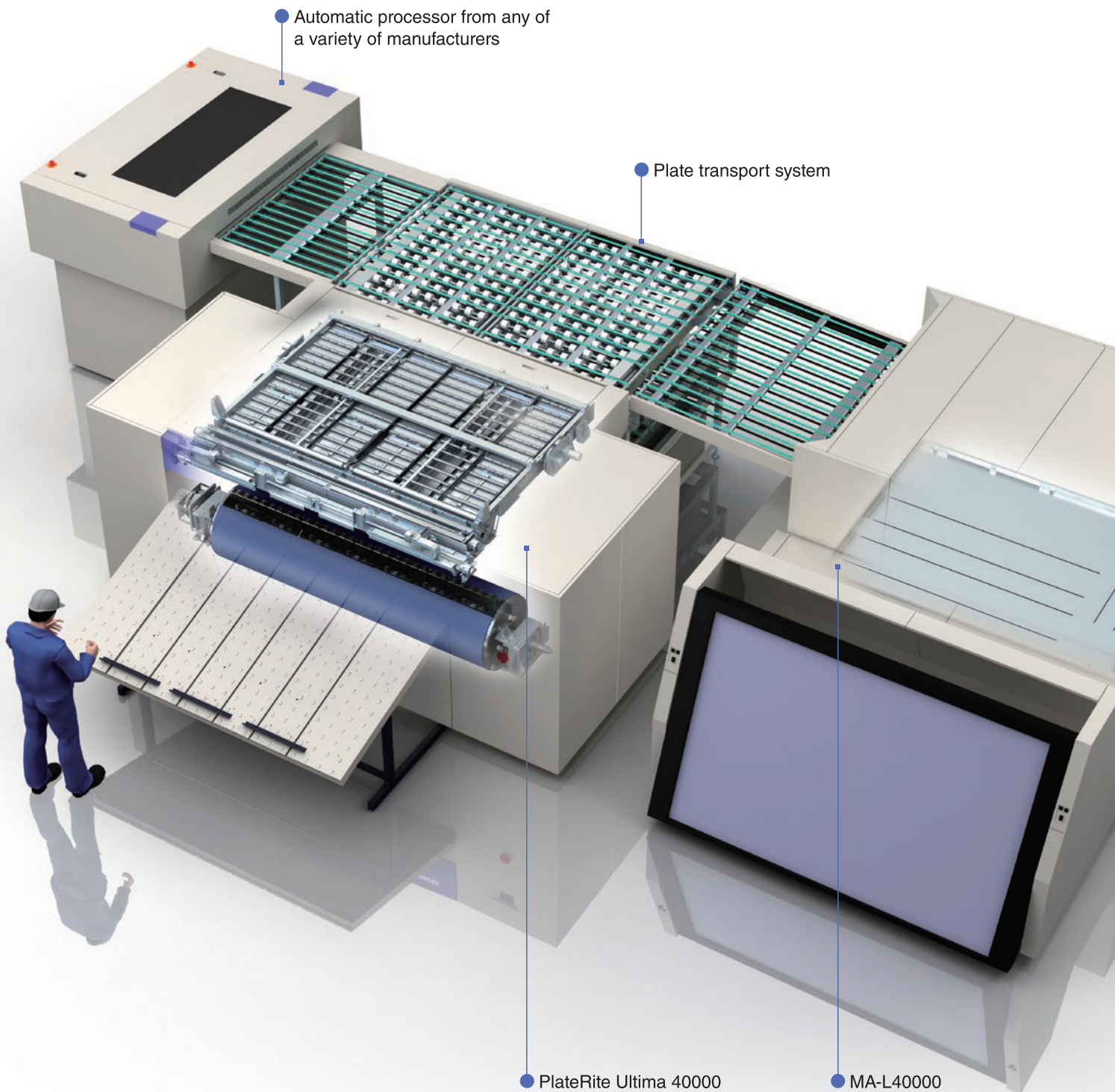WhatsApp: (11)98379-2128
Website: www.alphaservice.epizy.com

High-end CtP that maximizes the performance of large-format offset presses

PlateRite Ultima Series

● Automatic processor from any of
a variety of manufacturers

● Plate transport system

● PlateRite Ultima 40000   ● MA-L40000

This illustration shows the PlateRite Ultima 40000 connected to the MA-L40000.

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PlateRite Ultima 48000

An advanced thermal CtP unit that can output plates up to 48 A4 pages in size, and maximizes the productivity of large-format web offset presses.

Supported plate sizes:

Maximum: 2,900 x 1,350 mm; Minimum: 650 x 550 mm

PlateRite Ultima 40000

A space-saving thermal CtP unit that can output plates up to 40 A4 pages in size.

Supported plate sizes:

Maximum: 2,280 x 1,600 mm; Minimum: 650 x 550 mm*

* 500 x 550 mm (factory option)

PlateRite Ultima 36000

A thermal CtP unit that can output plates up to 36 A4 pages in size and features twin imaging heads for even higher productivity (ZX and Z models).

Supported plate sizes:

Maximum: 2,100 x 1,600 mm; Minimum: 650 x 550 mm*

* 500 x 550 mm (factory option)

PlateRite Ultima 24000

The same features as the PlateRite Ultima 36000 in a thermal CtP unit that can output plates up to 24 A4 pages in size.

Supported plate sizes:

Maximum: 1,750 x 1,400 mm; Minimum: 650 x 550 mm*

* 500 x 550 mm (factory option)

PlateRite Ultima 16000N

A thermal CtP unit that can output plates for large-size media, including plates up to 16 A4 pages in size.

Supported plate sizes:

Maximum: 1,470 x 1,180 mm; Minimum: 650 x 550 mm*

* 450 x 370 mm (Field option)

SIZE UPGRADE

PRODUCTIVITY UPGRADE

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Realizing a remarkable level of productivity

A multi-channel imaging head made possible by unique GLV™ technology

GLV™ (Grating Light Valve™) technology employs production techniques used in semiconductor manufacturing. A GLV™ array consists of thousands of microscopic reflective ribbons placed over a silicon chip. These ribbons can be moved up or down to reflect or diffract an imaging laser targeted at the array, simultaneously turning on and off a high number of optical channels.

The PlateRite Ultima series units feature an advanced imaging head in which SCREEN's tried-and-true laser control technology is used to precisely target a high-power laser at the GLV™ array, making it possible to simultaneously control 1,024 channels of light. This dramatically increases the width of the area that can be imaged with each rotation of the drum and contributes to significantly higher productivity.

2,900×1,350
2,280×1,276
2,032×1,270
1,448×1,143
1,030×800
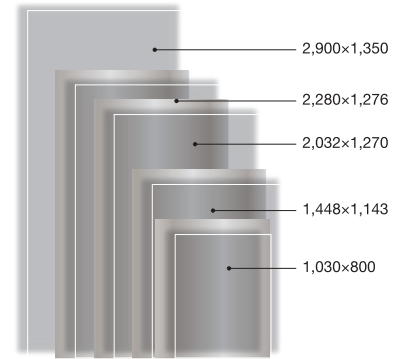
PlateRite Ultima series productivity

	2,900 x 1,350 mm	2,280 x 1,276 mm	2,032 x 1,270 mm	1,448 x 1,143 mm	1,030 x 800 mm
PlateRite Ultima 48000SX — 1024 Channel / Dual Loading	17	20	22	34	42
PlateRite Ultima 48000S — 512 Channel / Dual Loading	14	17	18	28	34
PlateRite Ultima 40000SX — 1024 Channel / Dual Loading	—	22	24	30	44
PlateRite Ultima 40000S — 512 Channel / Dual Loading	—	17	19	24	36
PlateRite Ultima 36000ZX — 1024 Channel ×2 / Dual Loading	—	—	35 (24)	41 (30)	70
PlateRite Ultima 36000Z — 512 Channel ×2 / Dual Loading	—	—	29 (19)	34 (24)	58
PlateRite Ultima 36000SX — 1024 Channel / Dual Loading	—	—	24	30	44
PlateRite Ultima 36000S — 512 Channel / Dual Loading	—	—	19	24	36
PlateRite Ultima 24000ZX — 1024 Channel ×2 / Dual Loading	—	—	—	41 (30)	70
PlateRite Ultima 24000Z — 512 Channel ×2 / Dual Loading	—	—	—	34 (24)	58
PlateRite Ultima 24000SX — 1024 Channel / Dual Loading	—	—	—	30	44
PlateRite Ultima 24000S — 512 Channel / Dual Loading	—	—	—	24	36
PlateRite Ultima 16000N-Z — 1024 Channel	—	—	—	42	46
PlateRite Ultima 16000N-S — 512 Channel	—	—	—	29	37
PlateRite Ultima 16000N-E — 512 Channel	—	—	—	17	20

• Productivity may vary depending on the sensitivity of the plates used.
• Productivity was measured during output at 2,400 dpi, with the unit connected to an MA-L multi-cassette plate autoloader.
• Numbers in parentheses indicate productivity when only one imaging head is used.
• Productivity may vary slightly by model when a Skid autoloader is used.

Smooth and easy handling of even large-size plates

Automated plate loading/unloading system

Mounting heavy large-size plates not only taxes the operator but also has the potential to reduce the overall efficiency of the CtP production line, since the use of large plates increases the risk of damage to the plates when they are loaded into the cassettes, and more time is required for loading operations.

The PlateRite Ultima series units can be incorporated into an automated production line with the addition of any of a variety of plate handling equipment options, including the Skid and MA-L plate autoloaders, which feature SCREEN's renowned plate transport technology.

Increased efficiency supplying the press

Automatic inline plate punching eliminates the need to adjust registration at the press

The PlateRite Ultima series automatic inline punching system punches holes in plates immediately before they are loaded onto the drum. The punch holes ensure consistent plate placement on the drum, when used in conjunction with registration pins. This helps eliminate imaging variations caused by improper plate placement, and results in superior registration accuracy.

When optional press punch blocks are used (up to 10 punch blocks can be installed and selected according to plate size and press type), the imaged plates can be loaded directly onto the press after output to ensure registration accuracy is maintained. The use of press punch blocks during plate output not only removes the need for manual punching later on in the workflow, but also practically eliminates the need to adjust register at the press. The result is shorter press make-ready time and improved press operating ratios, for even better overall productivity.

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Higher productivity with dual plate loading models

Consecutive imaging of pairs of plates

Not only can the advanced PlateRite Ultima large-format platesetters load a single large-size plate onto the drum, they can also load pairs of smaller plates together. Imaging pairs of plates increases productivity, since plates need to be loaded and unloaded fewer times. The PlateRite 36000 and PlateRite 24000's ZX and Z series models also feature twin imaging heads that enable simultaneous imaging of two plates, for even higher productivity.
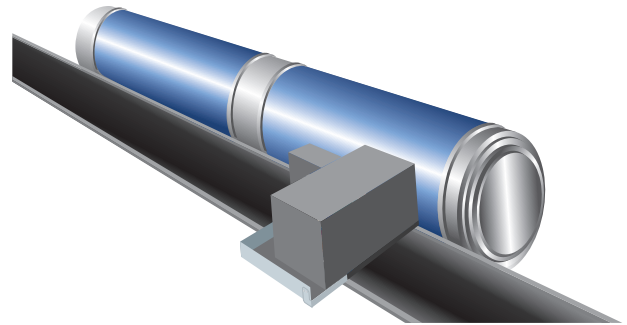
	Plate size during dual plate loading
PlateRite Ultima 48000	16 A4-size pages
PlateRite Ultima 40000	8 A4-size pages
PlateRite Ultima 36000	
PlateRite Ultima 24000	

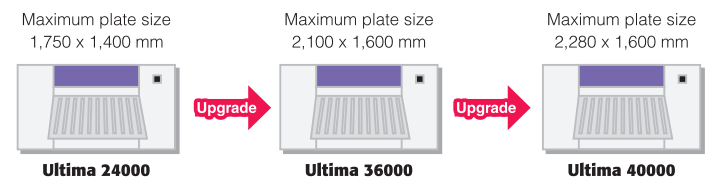• *The PlateRite Ultima 16000N does not support dual plate loading.*

The flexibility to upgrade in the future

Upgrade to larger size plate output when you get a larger press

The PlateRite Ultima 24000 and PlateRite Ultima 36000 can be upgraded to handle the same size of plates as the PlateRite Ultima 40000. In other words, the PlateRite Ultima 24000 and PlateRite Ultima 36000 not only provide high-end CtP, they also offer the flexibility to support larger plates if you get a large-format press in the future.
• *Not all models can be upgraded.*

• Upgrading to support larger plate sizes

Maximum plate size 1,750 x 1,400 mm	Maximum plate size 2,100 x 1,600 mm	Maximum plate size 2,280 x 1,600 mm
Ultima 24000	**Ultima 36000**	**Ultima 40000**

Upgrade → Upgrade →

Upgrade to higher productivity and support greater work volume

With the replacement of a few key parts, the PlateRite Ultima 16000N can be upgraded from the E model to the S model for higher productivity even after installation. Equipment like the PlateRite Ultima 16000N helps you schedule and minimize your investment costs.

• PlateRite Ultima 16000N series productivity upgrade

Ultima 16000N-E (17)   Upgrade →   Ultima 16000N-S (29)
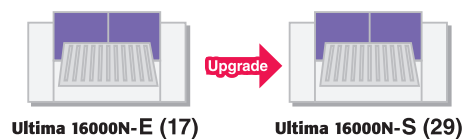
Numbers in parentheses indicate productivity.
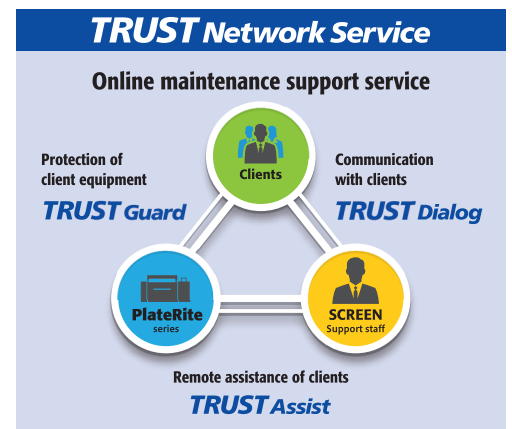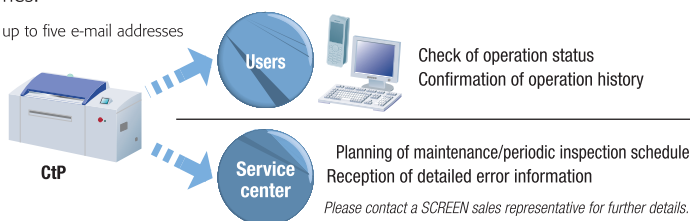• *Values as determined under SCREEN's operating conditions*

Advanced support boosts system reliability

Remote monitoring function

Users can easily monitor and control their system from a remote location via Web browser or e-mail.* An external PC can also be effectively used as a substitute operation panel to manage CtP settings.

E-mails are automatically forwarded to a service center, providing an in-depth understanding of the operation status of the equipment. This information can be used during maintenance and periodic inspections to ensure the system remains in optimal condition at all times.

* Can be forwarded to up to five e-mail addresses

Users — Check of operation status
Confirmation of operation history

CtP

Service center — Planning of maintenance/periodic inspection schedule
Reception of detailed error information

Please contact a SCREEN sales representative for further details.

TRUST *Network Service*

Online maintenance support service

Protection of client equipment
TRUST *Guard*

Clients

Communication with clients
TRUST *Dialog*

PlateRite series

SCREEN Support staff

Remote assistance of clients
TRUST *Assist*

Support for TRUST Network Service is planned.
Please refer to the catalogue for TRUST Network Service for detailed information.

Main unit specifications

Product name	PlateRite Ultima 48000		PlateRite Ultima 40000		PlateRite Ultima 36000			
	48000SX	48000S	40000SX	40000S	36000ZX	36000Z	36000SX	36000S
Recording system	External drum		External drum		External drum			
Light source	1,024 channel laser diode x 1	512 channel laser diode x 1	1,024 channel laser diode x 1	512 channel laser diode x 1	1,024 channel laser diode x 2	512 channel laser diode x 2	1,024 channel laser diode x 1	512 channel laser diode x 1
Plate size	Maximum 2,900 x 1,350 mm [114.1" x 53.1"]; Minimum 650 x 550 mm [25.6" x 21.7"]		Maximum 2,280 x 1,600 mm [89.7" x 62.9"]; Minimum 650 x 550 mm [25.6" x 21.7"] [1]		Maximum 2,100 x 1,600 mm [82.6" x 62.9"]; Minimum 650 x 550 mm [25.6" x 21.7"] [1]			
Dual plate support	Support for two plates, maximum 1,450 x 1,350 mm [57.0" x 53.1"] each		Support for two plates, maximum 1,060 x 1,600 mm [41.7" x 62.9"] each		Support for two plates, maximum 1,060 x 1,600 mm [41.7" x 62.9"] each			
Imaging size	Maximum 2,900 x 1,335 mm [114.1" x 52.5"] [2] (Leading edge gripper margin: 8 mm [0.32"]; Trailing edge gripper margin: 7 mm [0.28"])		Maximum 2,280 x 1,585 mm [89.7" x 62.4"] [2] (Leading edge gripper margin: 8 mm [0.32"]; Trailing edge gripper margin: 7 mm [0.28"])		Maximum 2,100 x 1,585 mm [82.6" x 62.4"] [2] (Leading edge gripper margin: 8 mm [0.32"]; Trailing edge gripper margin: 7 mm [0.28"])			
Plate thickness	0.3 to 0.4 mm [11.9 to 15.7 mil][3]		0.2 to 0.4 mm [7.9 to 15.7 mil][3]		0.2 to 0.4 mm [7.9 to 15.7 mil][3]			
Plate type	Thermal aluminum plate		Thermal aluminum plate		Thermal aluminum plate			
Resolutions	1,200[4], 2,400, 2,438, 2,540 dpi		1,200[4], 2,400, 2,438, 2,540 dpi		1,200[4], 2,400, 2,438, 2,540 dpi			
Productivity	See productivity chart in this brochure		See productivity chart in this brochure		See productivity chart in this brochure			
Press punch systems	Installation of up to 10 units		Installation of up to 10 units		Installation of up to 10 units			
Registration punch system	Preinstalled		Preinstalled		Preinstalled			
Interface	S-PIF		S-PIF		S-PIF			
Dimensions*[5] (W x D x H)	Main unit: 4,600 x 2,100 x 1,795 mm [181.2" x 82.7" x 70.7"]		Main unit: 3,840 x 2,100 x 1,795 mm [151.2" x 82.7" x 70.7"]		Main unit: 3,840 x 2,100 x 1,795 mm [151.2" x 82.7" x 70.7"]			
Weight	Main unit: 4,000 kg [8,800 lb] (maximum)		Main unit: 3,720 kg [8,184 lb] (maximum)		Main unit: 3,720 kg [8,184 lb] (maximum)			
Power requirements	Main unit : Single phase 200 to 240 V, 5.2 kW, 32 A Chiller unit : Single phase 200 to 240 V, 0.7 kW, 4 A Blower unit: Single phase 200 to 240 V, 1 kW, 10 A		Main unit : Single phase 200 to 240 V, 5.2 kW, 35 A Chiller unit : Single phase 200 to 240 V, 0.7 kW, 4 A Blower unit: Single phase 200 to 240 V, 1 kW, 10 A		Main unit : Single phase 200 to 240 V, 5.2 kW, 35 A Chiller unit : Single phase 200 to 240 V, 0.7 kW, 4 A (Z and ZX models require two chiller units) Blower unit: Single phase 200 to 240 V, 3 kW, 10 A			
Environment	Recommended: Temperature 21 to 25°C (69.8 to 77°F); Relative humidity: 50 to 70% Required : Temperature 18 to 26°C (64.4 to 78.7°F); Relative humidity: 40 to 70%		Recommended: Temperature 21 to 25°C (69.8 to 77°F); Relative humidity: 50 to 70% Required : Temperature 18 to 26°C (64.4 to 78.7°F); Relative humidity: 40 to 70%		Recommended: Temperature 21 to 25°C (69.8 to 77°F); Relative humidity: 50 to 70% Required : Temperature 18 to 26°C (64.4 to 78.7°F); Relative humidity: 40 to 70%			
Standard accessories	Manual plate loading table, chiller unit, blower unit, signal tower		Manual plate loading table, chiller unit, blower unit, signal tower		Manual plate loading table, chiller unit, blower unit, signal tower			
Optional accessories	Punchless plate handling option, 0.5 mm plate thickness support		Punchless plate handling option, 0.5 mm plate thickness support		Punchless plate handling option, dual plate loading support (S model only), 0.5 mm plate thickness support			
	SA-L48000 Skid, MA-L40000*[6], AT-M		MA-L40000, SA-L40000 Skid*[6], AT-M		MA-L40000, SA-L40000 Skid*[6], AT-M			

*1. A minimum size of 500 x 550 mm is offered as a factory option.
*2. When the punchless plate handling option is used, the leading edge gripper margin is 5 mm and the trailing edge gripper margin is 7 mm.
*3. When the factory option for support of 0.5 mm thick plates is selected, the supported plate thickness is 0.3 to 0.5 mm.   *4. 1,200 dpi uses doubled 2,400 dpi dots.
*5. For information on system dimensions, please consult your SCREEN representative.   *6. There are limits to the sizes of plate this unit can handle.

Significantly increasing CtP productivity and press operating ratios Multi-autoloader

The multi-autoloader system automates everything from plate loading to imaging, transport, developing and unloading in a single ongoing set of operations. It makes it possible to continuously output CtP plates for long periods of time, and significantly increases both productivity and press operating ratios.

Handling a large volume of single-size plates at once
Skid autoloader

The Skid autoloader makes it possible to set an entire pallet's worth of large-size plates directly onto a unique skid base. Since a large number of plates of the same size can be set in place at once, the strain involved in plate loading is greatly reduced. The Skid autoloader is an extremely useful component for creating a fully automated CtP line.

• *Up to a maximum of 600 plates (for plates 0.3 mm thick; depends on the plate size).*
• *Not compatible with the PlateRite Ultima 16000N.*

Choose the right media for the job
MA-L (multi-cassette autoloader)

The MA-L is an autoloader that can supply media as needed from any of its multiple cassettes, each of which can be loaded with a different size or type of media. The MA-L40000 features four cassettes, and can supply up to 300 large-size plates automatically (plate thickness: 0.3 mm).

The MA-L16000N II can be equipped with cassettes that hold up to 75 plates*, and can supply a maximum of 450 plates automatically. Units can be equipped with three or six independent cassettes. Even after installation, the three-cassette type can be upgraded to support six cassettes.

* For plates 0.3 mm thick

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Product name	PlateRite Ultima 24000				PlateRite Ultima 16000N		
	24000ZX	24000Z	24000SX	24000S	16000N-Z	16000N-S	16000N-E
Recording system	External drum				External drum		
Light source	1,024 channel laser diode x 2	512 channel laser diode x 2	1,024 channel laser diode x 1	512 channel laser diode x 1	1024 channel laser diode x 1	512 channel laser diode x 1	
Plate size	Maximum 1,750 x 1,400 mm [68.8" x 55.1"]; Minimum 650 x 550 mm [25.6" x 21.7"]*[1]				Maximum 1,470 x 1,180 mm [57.8" x 46.4"]; Minimum 650 x 550 mm [25.6" x 21.7"]*[7]		
Dual plate support	Support for two plates, maximum 1,060 x 1,400 mm [41.7" x 55.1"] each				Not supported		
Imaging size	Maximum 1,750 x 1,385 mm [68.8" x 54.5"] [2] (Leading edge gripper margin: 8 mm [0.32"]; Trailing edge gripper margin: 7 mm [0.28"])				Maximum 1,470 x 1,172 mm [57.8" x 46.1"] (Leading edge gripper margin: 3 mm [0.12"]; [7] Trailing edge gripper margin: 5 mm [0.20"])		
Plate thickness	0.2 to 0.4 mm [7.9 to 15.7 mil]*[3]				0.2 to 0.4 mm [7.9 to 15.7 mil]*[7]*[8]		
Plate type	Thermal aluminum plate				Thermal aluminum plate		
Resolutions	1,200 [4], 2,400, 2,438, 2,540 dpi				1,200 [4], 2,400, 2,438, 2,540 dpi		
Productivity	See productivity chart in this brochure				See productivity chart in this brochure		
Press punch systems	Installation of up to 10 units				Installation of up to 10 units		
Registration punch system	Preinstalled				Not installed		
Interface	S-PIF				Gigabit Ethernet		
Dimensions*[5] (W x D x H)	Main unit: 3,840 x 2,100 x 1,795 mm [151.2" x 82.7" x 70.7"]				Main unit: 2,740 x 1,772 x 1,511 mm [107.9" x 69.8" x 59.5")]		
Weight	Main unit: 3,710 kg [8,162 lb] (maximum)				Main unit: 1,640 kg [3,608 lb]		
Power requirements	Main unit : Single phase 200 to 240 V, 5.2 kW, 35 A Chiller unit : Single phase 200 to 240 V, 1.4 kW, 8 A (Z and ZX models require two chiller units) Blower unit : Single phase 200 to 240 V, 1 kW, 10 A				Main unit : Single phase 200 to 240 V, 5 kW, 25 A Chiller unit : Single phase 200 to 240 V, 0.7 kW, 4 A Blower unit : Single phase 200 to 240 V, 1 kW, 10 A	Main unit : Single phase 200 to 240 V, 5 kW, 25 A Chiller unit : Single phase 200 to 240 V, 0.6 kW, 3 A Blower unit : Single phase 200 to 240 V, 1 kW, 10 A	

Environment	Recommended: Temperature 21 to 25°C (69.8 to 77°F);
	                     Relative humidity: 50 to 70%
	Required : Temperature 18 to 26°C (64.4 to 78.7°F);
	                     Relative humidity: 40 to 70%
					Recommended: Temperature 21 to 25°C (69.8 to 77°F);
					                     Relative humidity: 50 to 70%
					Required : Temperature 18 to 26°C (64.4 to 78.7°F);
					                     Relative humidity: 40 to 70%		

Standard accessories	Manual plate loading table, chiller unit, blower unit, signal tower				Chiller unit, blower unit		
Optional accessories	Punchless plate handling option, dual plate loading support (S model only), 0.5 mm plate thickness support				Signal tower unit, manual plate loading table		
	MA-L40000, SA-L40000 Skid, AT-M				MA-L16000N II, AT-M16000N II		

*7. A minimum plate size of 450 x 370 mm and thickness of 0.15 mm (with leading edge gripper margin of 4 mm) are offered as an option. Plates wider than 590 mm and narrower than 610 mm cannot be used.

*8. With a plate thickness of 0.4 mm, only plate sizes of 900 x 770 mm and above can be used.
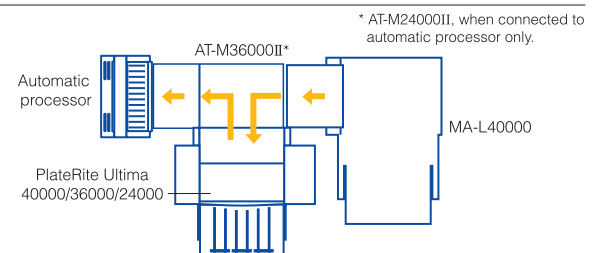
Mix and match up to two autoloaders
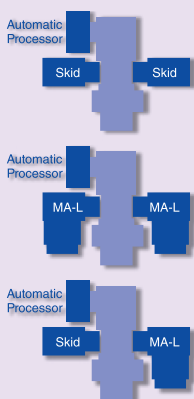
• Connect two Skid autoloaders
Load up to 1,200 plates of the same type. If you need to output high volumes of the same type of media, this setup enables continuous operation for a surprisingly long time.

• Connect two MA-L autoloaders
Automatically supply up to eight different types of media. This setup is strongly recommended for companies that handle many different types of plates.

• Connect one Skid autoloader and one MA-L autoloader
Load the media you use most often with the Skid autoloader and reserve the MA-L for lower volume media. This will provide greater flexibility during operation.
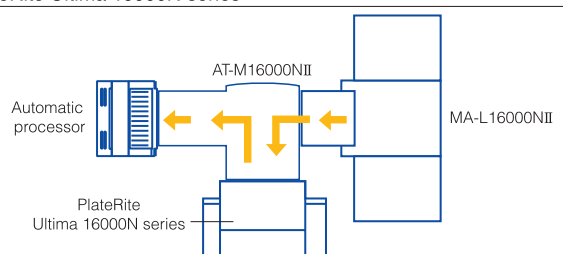
• Not compatible with the PlateRite Ultima 16000N series.

Standard layout for main unit and autoloader

• PlateRite Ultima 40000/36000/24000

* AT-M24000II, when connected to automatic processor only.

• PlateRite Ultima 16000N series

■ Layout for PlateRite Ultima 40000 with MA-L40000 [units: mm]

※ *The size of the automatic processor and other equipment varies with the plates used.*
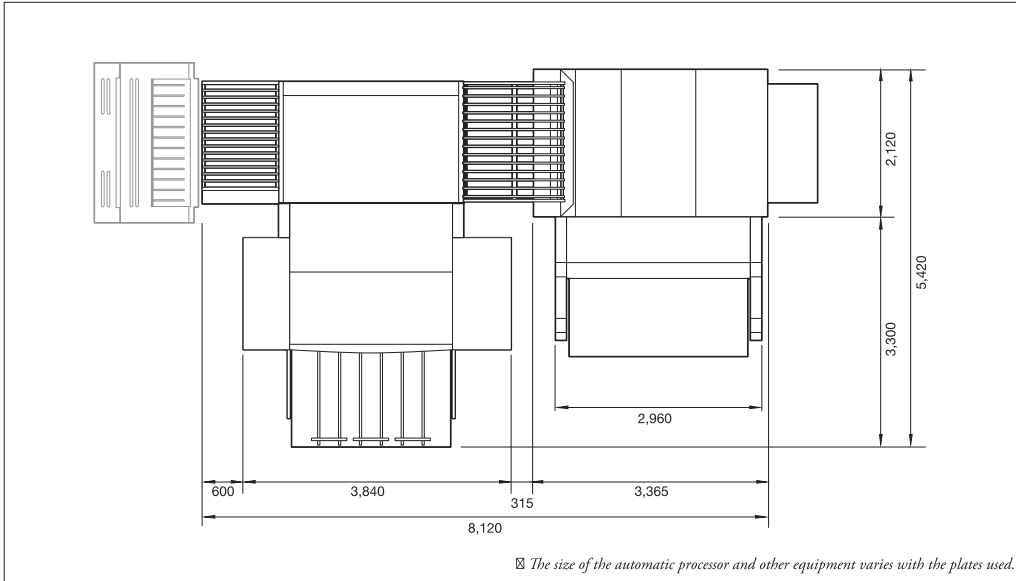
■ Layout for PlateRite Ultima 16000N with MA-L16000NⅡ (six-cassette autoloader type) [units: mm]

※ *The size of the automatic processor and other equipment varies with the plates used.*

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