CreoScitex™

High-Quality, High Throughput,
4-up Platesetters

Lotem 400V Family >>>

PLATESETTING



>>>

Lotem 400 Family

The Lotem 400V, Lotem 400VA and Lotem 400V PS/M thermal platesetters provide superior quality, high throughput, and efficient plate handling, making them leaders in the 4-up class. The Lotem 400V platesetter has an innovative, semi-automatic plate loading system; the Lotem 400VA platesetter has a fully automatic system for unattended operation. These systems address the broad needs of today's printers by providing an easy and cost-effective transition to computer-to-plate. The Brisque Extreme digital front end drives the Lotem 400V and Lotem 400VA platesetters. A new configuration is now available for connecting the Lotem 400V to the Macintosh based PS/M digital front end.

> Thermal Imaging for Top Quality and Convenience

Thermal imaging is the standard CTP technology today due to its superior performance in a production environment. Thermally imaged plates show superior results on press compared to conventionally exposed plates, and enable longer run lengths. Thermal plates, which are available from a large number of vendors, have proven to be stable and resilient within the demanding press room environment. These plates do not require a darkroom, making plate handling more efficient and convenient.

> Semi and Automatic Operation for High Productivity

The Lotem 400V is a semi-automatic platesetter with a very small footprint. The platesetter is based on the ContinuousLoad concept; while one plate is being imaged, the second plate is placed in standby and loads automatically after the plate on the drum unloads. It is designed to be easily upgraded onsite to the fully automatic Lotem 400VA system. For streamlined production, the plate is unloaded automatically onto an optional in-line processor after imaging.

The Lotem 400VA is a high productivity, fully automated platesetter. Automation includes loading of plates, removal of slipsheets, imaging and automatic



The three-cassette loading unit of the Lotem 400VA platesetter has a capacity of up to 150 plates for many hours of unattended automatic operation.



A plate is positioned in standby while another is being imaged; it will be loaded automatically without operator intervention.



Plates are automatically unloaded into an inline processor for maximum efficiency.

in-line punching for precise registration and faster fit on press. The three-cassette option provides unattended operation freeing staff for other tasks. The unit stores up to 150 plates with each cassette holding 50 plates of a different size.

The Lotem 400V, Lotem 400VA and Lotem 400V PS/M platesetters image sixteen full-sized, 4-up plates an hour (see specifications for details). Separate loading and unloading systems operate simultaneously, keeping the platesetters running for non-stop production.

> Continuously Variable Resolution and Plate Size Let You Match the Platesetter Output to Your Jobs and Presses

The platesetters image at continuously variable resolution from 60-140 dpmm / 1,524 to 3,556 dpi, so that you can select the optimal resolution for each job. They support any plate size from 381 x 318 mm / 15 x 12.5 inches up to 750 x 622 mm / 29.5 x 24 inches, making them ideal for multiple press sizes.

> Turbo Screening for High Quality and Productivity

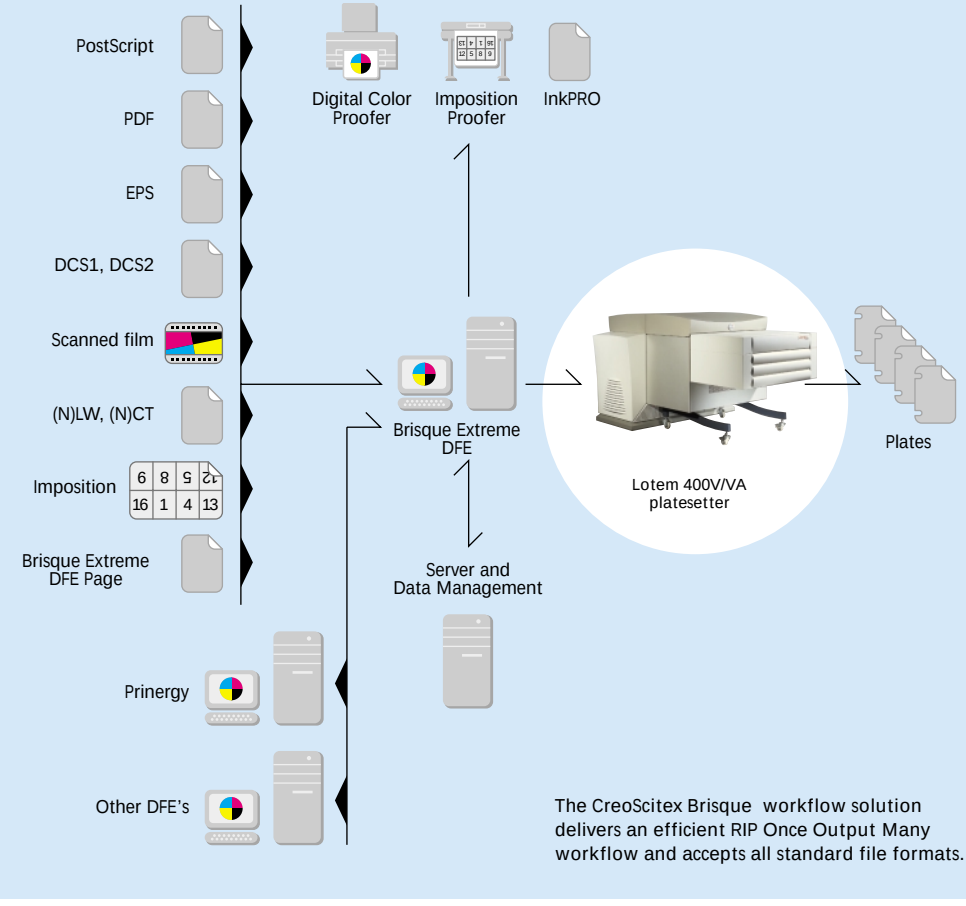
Turbo Screening technology produces smoothly shaped dots, resulting in high image quality, predictable dot gain and sharp detail. Commonly used resolutions of 100 dots per mm / 2,540 dpi can be used to output high screen rulings of up to 118 lines per cm / 300 lpi, without sacrificing gray levels or reducing productivity.

> Small Footprint and Easy Access for Maintenance

The Lotem 400V and Lotem 400V PS/M platesetters have a small footprint of only 1.28 sq m / 13.9 sq ft of floor space. They are uniquely designed for easy access to internal parts for quick and convenient periodic maintenance.

> Maximum Control - Minimum Effort

The simplicity of the graphic user interface (GUI) means that system operation is not dependent on the level of operator expertise. Highly intuitive, the GUI displays processes in sequence. Little attention is needed to keep the platesetters in full production.



The CreoScitex Brisque workflow solution delivers an efficient RIP Once Output Many workflow and accepts all standard file formats.



The platesetters have a compact design that gives them a surprisingly small footprint.

> Brisque Extreme Digital Front End (DFE) for Flexible CTP Workflow

The Lotem 400V and Lotem 400VA platesetters are driven by the Brisque Extreme DFE with dedicated CTP functionalities. These include Fast Replate, for immediate remake of a damaged plate, and the Back-and Front Preview to check the alignment of two plates comprising a signature. Everything needed for plate imaging is merged on-the-fly: pages, imposition layout, press related marks, finishing marks, tone reproduction curve (dot gain compensation data) and screening. These functionalities enable last-minute press rescheduling, paper and ink combinations, as well as modifications in the screening parameters. The Brisque workflow provides flexibility throughout the production process. The DFE's RIP Once, Output Many workflow assures predictability because the same data is used for proofing and platesetting. It's easy to edit post-RIP pages, since there is no redundant cycle time.

> Lotem 400V PS/M Enables the CTP Workflow from a Macintosh Based Computer

The optional PS/M digital front end (DFE) configuration includes built-in Adobe PostScript 3, RIP and applications such as Automatic Picture Replacement (APR) for replacement of low-res images with high res- images, and Full Auto Frame (FAF) trapping. Turbo Screening, the Expose application and the queue manager are now incorporated into the Lotem controller interface allowing the operator to submit jobs and control them from the Lotem 400V control system. Files generated on the Macintosh based PS/M DFE are copied over the network to the Lotem. The distance between the PS/M and the platesetter is unlimited, allowing a distributed workflow. Moreover, multiple Macintosh based PS/M DFEs can be connected to the same platesetter. Supported file formats include LW, CT, Brisque job, bitmap, and TIFF files.

> Platesetters Can Connect to Other DFEs in Your Operation

The optional Lotem Link configuration is a solution for customers using other workflows who want to benefit from the high quality and productivity provided by Lotem systems. Connected to front ends such as CreoScitex Prinergy, PCC, Barco and others, the Lotem Link configuration integrates the platesetter smoothly and seamlessly into existing workflows, while offering full automation, variable resolution and other Lotem advantages.

> Digital Ink Management Option for Short Makeready

The award-winning CreoScitex InkPro application sends an ink management file to the press for automatic setting of the ink keys. This application supports CIP3, the international industry standard for reducing press make-ready, improving image quality, and digitally linking all processes throughout the press production workflow.

The platesetter provides easy access to internal parts, making periodical maintenance very convenient.



Features	Benefits
High imaging speed	High productivity and short turnaround time.
Continuous load	Non-stop imaging and high machine utilization.
Simultaneous loading and unloading	High throughput.
Automatic unloading into online plate processor	Efficient operation without operator intervention.
Continuously variable resolution	Optimal fit between selected resolution, screen ruling and job requirements.
Turbo Screening	High screen rulings can be used with standard resolutions
Small footprint	Requires minimal floor space for lower fixed costs; efficient use of plant facilities
User-friendly GUI	Easy to operate; fast learning curve
Independent page	Efficient last-minute correction and imposition elements
Seamless integration with CreoScitex InkPRO	Short make-ready times, less paper and ink waste
Fast RePlate	Immediate re-imaging of a damaged plate for minimal press downtime.

Automation Features and Benefits on Lotem 400VA

150 plates in three 50-cassette trays	Nine hours of unattended operation, even when three different plate sizes are used
Automatic slip sheet removal	Saves time and labor
Inline punch	Assures precise registration and faster fit on press; saves time and labor

Lotem 400 Family Specifications

Technology:
Fully automatic external drum, thermal imaging platesetter
Laser type:
Infrared laser diodes 830 nm
Imaging time:
2.4 min.*
Continuous throughput:
Lotem 400V, Lotem 400VA, Lotem 400V PS/M 16 plates per hour
Expose resolution:
Lotem 400V, Lotem 400VA, Lotem 400V PS/M
Continuously variable from 60 to 140 dpmm/1,524 to 3,556 dpi
Plate sizes (minimum to maximum; along drum x around drum):
381 x 318 mm / 15 x 12.5 in.
750 x 622 mm / 29.5 x 24.5 in.
Plate thickness:
0.15-0.3mm / 6-12 mil
Accuracy:**
±20 µm between 2 plates from different Lotem systems (max. format)
Repeatability accuracy:**
±5 µm between 2 plates from the same Lotem
Register accuracy:**
±25 µm between image and punch notches
Slip sheet removal:
Manual for Lotem 400V
Auomatic for Lotem 400VA
Optional punch for Lotem 400VA:
Customized according to press configuration; automatically selected according to press profile; up to 6 individually controlled, single, punch heads installed concurrently.
Digital Front End:
Brisque Extreme, Brisque^{2} Extreme, Brisque^{4} Extreme, Brisque^{6} Extreme connection to additional workflows through Lotem Link configuration
Lotem 400V available with PS/M connectivity
Screening:
Turbo Screening, up to 98.4 lines per cm / 250 lines per in. (Media dependent)
Optional FM screening
Optional turbo HDP (high definition printing) screening

Dimensions of Lotem 400 family ***

	No. trays	No. plates	Combined footprint (H x L x W)
Lotem 400V / PS/M	1	Single plate continuous load	0.8 x 1.65 x 1.34 mm 31.5 x 64.9 x 52.7 in.
Lotem 400VA	3	3 x 50	2.37 x 1.65 x 1.34 mm 93.3 x 64.9 x 52.7 in.

Electrical requirements:
> 208V/120V ±10%, 3 phase (Star) 20A, 7.5 KW
> 200/220/240 Vac ±10% 50/60 ±2 Hz single phase 5KVA
Ambient conditions:
20-30 ˚C / 68-86 ˚F
40-60% relative humidity (non-condensing)
Contact media supplier for exact environmental operating ranges of media
Weight:
Lotem 400V PS/M 750 kg / 1,650 lb
Lotem 400VA 1,300kg / 2,860 lb

* 724 mm / 28.5 in. wide, 180 mj/sq cm sensitivity, at 100 dpmm / 2,540 dpi
** Specification for metal plates with fixed thickness only
*** Cover not included

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CreoScitex™

This device is a class 1 laser product and is fully compliant with IEC standard 825-1 and US federal regulations 21 CFR 1040.10 and 1040.11 - CDR.

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