



Lotem 800, Lotem 800 II, Lotem 800 II Quantum

automated, high-throughput 8-page CTP



Quality, consistency and flexibility in 8-page platesetting

- full automation for hours of unattended operation
- seamless integration with Creo workflows, compatibility with third-party workflows
- cassette loading options for various production needs
- proven design and ergonomics in a modular package
- SQUAREspot imaging technology on Lotem 800 II Quantum for unmatched process control and superior imaging

The Lotem™ 800 platform combines sophisticated design, superior imaging and easy operation in a fully-automatic device. Continual improvements ensure that Lotem 800 platesetters always offer state-of-the-art performance. New higher output speeds, plus the ability to output processless plates in addition to standard thermal plates, make Lotem 800 platesetters the choice wherever cost-effectiveness, consistent quality, and operational flexibility are required.

The Lotem 800 II and Lotem 800 II Quantum can be equipped with the Spectrum option, to add digital halftone proofing capability. Spectrum proofs ensure that clients see the identical halftone image structure on the proofs and the plates on press.

Lotem 800 II Quantum: SQUAREspot® imaging and ultra-precise registration

The Lotem 800 II Quantum CTP device features SQUAREspot® imaging technology, the foundation for accurate and consistent presswork. SQUAREspot delivers end-to-end imaging integrity from the original file through to the press despite normal plate-imaging variables such as laser power, plate emulsion sensitivity, and processor variation.

The Lotem 800 II Quantum ensures precise fit and registration from plate to plate and machine to machine, with automatic correction for temperature-related plate expansion and contraction.

Lotem 800 II: enhanced performance with easy upgrade path

The Lotem 800 II features a choice of resolutions and throughput speeds—up to a new top speed of 29 plates per hour—to match any production requirements. The Lotem 800 II offers a seamless upgrade to the Lotem 800 II Quantum platform, so your CTP system can grow along with your business.

Lotem 800: your entry into efficient, productive Lotem technology

The Lotem 800 device, a cost-effective entry to the sophisticated, flexible Lotem platform, features continuously-variable resolution so you can match the resolution to the job's requirements.



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Protect your investment with the Creo upgrade path

Beginning with a Lotem 800, you can upgrade your device's performance by increasing the platesetter's speed, and adding capacity and flexibility with loading cassette options. With the Lotem 800 II platform, you can also add the capability to produce Spectrum digital halftone proofs, and seamlessly upgrade to the advanced imaging and process control of the Lotem 800 II Quantum.

Lotem 800 / Lotem 800 II / Lotem 800 II Quantum Product Specifications

	Lotem 800 II Quantum	Lotem 800 II	Lotem 800
General Specifications			
Technology	830 nm thermal imaging platesetter, fully automatic, external drum		
Load/unload systems	Single, dual or multi-cassette units; all plate-loading options support automatic slip-sheet removal; optional connectivity to In-line processors: <ul style="list-style-type: none"> • Single cassette unit: up to 100 plates with slip-sheets • Dual loading cassette: allows for two different plate sizes: the main cassette holds up to 60 plates (if Spectrum option is installed); the upper tray holds up to 10 plates (of a different size) or proofing media • Multi-cassette unit: holds up to 500 plates in five cassettes, each with up to 100 plates. The required cassette is automatically selected according to the job definition. Empty cassettes can be reloaded while the platesetter is running. 		
Inline punch	Up to 9 individually operated punches for single, double or triple punch holes; choice of over 320 punch heads to match most commercial presses.		
Spectrum proofing	Option	Option	Not available
Performance*			
Imaging time Full-sized 8up plate 1,030 mm (40.5 in.) wide, 130 mj per sq cm sensitivity, at 96 dpmm (2,400 dpi)	S speed: 4.8 min F speed: 2.6 min V speed: 1.24 min	S speed: 4.8 min F speed: 2.6 min V speed: 1.24 min	S speed: 4.8 min F speed: 2.6 min
Throughput	S speed: 15 plates per hr F speed: 22 plates per hr V speed: 29 plates per hr	S speed: 15 plates per hr F speed: 22 plates per hr V speed: 29 plates per hr	S speed: 10 plates per hr F speed: 16 plates per hr
Repeatability	±5 microns (±0.2 mi) between two plates imaged by the same device (at largest plate size)		
Accuracy	±20 microns (±0.8 mil) absolute accuracy (at largest plate size)		
Automatic temperature compensation	Automatic compensation for plate contraction and expansion due to changes in ambient temperature, for maximum accuracy	Not available	Not available
Workflow connectivity	Creo Brisque* Creo Prinergy* Connection to third party workflows via Lotem Link configuration (1-bit TIFF workflow)		

* Processing line speeds may limit system throughput speed

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Imaging Specifications			
Resolution	96 dpmm (2,400 dpi), or 100 dpmm (2,540 dpi)	96 dpmm (2,400 dpi), or 100 dpmm (2,540 dpi)	Continuously variable, 60 to 140 dpmm (1,524 to 3,556 dpi)
Screening	450 lpi max. linescreen Staccato® 20 series Optional: Staccato 10 series	200 lpi max. linescreen Optional: Staccato 25 series	200 lpi max. linescreen Optional: Staccato 25 series
Image area around the drum circumference	369 to 893 mm (14.5 to 35 in.)	369 to 893 mm (14.5 to 35 in.)	484 to 893 mm (19 to 35 in.) with GTO option: 369 mm (14.5 in.) min
Image area along the drum axis	457 to 1,130 mm (18 to 44.5 in.)	457 to 1,130 mm (18 to 44.5 in.)	650 to 1,130 mm (25.6 to 44.5 in.) with GTO option: 457 mm (18 in.) min
Media Specifications			
Media type	Thermal IR-sensitive aluminum plate, 830 nm		
Plate sizes Minimum to maximum, along drum x around drum	457 x 381 mm (18 x 15 in.) to 1,130 x 905 mm (44.5 x 35.6 in.)	650 x 490 mm (25.6 x 19.3 in.) to 1,130 x 905 mm (44.5 x 35.6 in.) with GTO option: 457 x 381 mm (18 x 15 in.) min	
Plate thickness	Standard: 0.2 to 0.4 mm (8 to 16 mil) Optional: 0.15 to 0.3 mm (6 to 12 mil)*		
Physical Specifications			
Operating Environment: Temperature	Standard: 20 to 27° C (68 to 80° F); Optional: 20 to 30° C (68 to 86° F)		
Humidity	40 to 60% relative humidity (non-condensing)		
Electrical Requirements: Voltage and current	120 V AC or 208 V AC (±10%), three phase (star) at 20A per phase, 50 to 60 Hz		
Power	20A, 7.5 kW		
Standards conformance: Electrical/mechanical	European Machinery Directive 98/37/EC, EN60204-1, EN292-2		
Laser	Lotem 800 devices are class 1 laser products and fully comply with EN 60825-1 and US Federal Regulations 21 CFR 1040.10 - CDRH.		
Electro Magnetic Compatibility	European EMC Directive 89/336/EC as amended by 92/31/EC and 93/68/EC, EN55022: 1998, class A, EN61000-3-2: 1995, EN55024: 1998. EN61000-4-2, -4-3, -4-4, -4-5, -4-6, -4-8, -4-11, USA Federal Regulations FCC 47CFR part 15 subpart B class A		
Physical Characteristics			
Size (HxWxD) with single cassette unit	1,390 x 2,370 x 2,110 mm (54.7 x 93.3 x 83.1 in.)		
Size (HxWxD) with dual loading cassette	1,390 x 2,610 x 2,110 mm (54.7 x 102.8 x 83.1 in.)		
Size (HxWxD) with multi-cassette unit	1,390 x 3,560 x 2,110 mm (54.7 x 140.2 in. x 83.1 in.)		
Weight (with single cassette)	1,100 kg (2,420 lb)		

* Spectrum proofing option not available with 0.15 mm plate option

Specifications are subject to change without notice. For detailed specifications and product information please contact your Creo representative.

Let's Talk

Contact your Creo representative to find out more about Creo digital prepress solutions, and to select the Lotem 800 model and options that best serve your current and future business needs.

About Creo

Creo Inc. is a global company with key strengths in imaging and software technology. As the leading provider of prepress systems, Creo helps over 25,000 customers worldwide adopt digital production methods which reduce costs, increase print quality and allow

them to serve their customers more efficiently. Based in Vancouver, Canada, Creo employs more than 4,000 people and reported fiscal 2003 revenue of US\$578 million. Creo trades on NASDAQ (CREO) and the TSX (CRE). www.creo.com

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