LOTEM 800 SPECIFICATIONS

Product Description	Lotem 800 is a highly productive, thermal imaging platesetter. It is a fully automated device with a full range of advanced functions, including inline punching, slip-sheet removal and continuously variable resolution. Lotem 800 is targeted to printers who do not require the advanced Quantum feature set (SquareSpot imaging, Staccato FM and automatic temperature compensation for machine-to-machine accuracy).
Features and Benefits	• High speed – up to 16 plates per hour • Continuously variable resolutions – 60 to 140 dpmm (1524 to 3556 dpi) • Inline punching – standard and customized punches • Automatic loading / unloading
Prerequisites	• Creo workflow[1] and approved third party workflows. • Creo "Lotem 800 Site Preparation and Requirements"
Product Version	• 3.6
Available Configurations	• S speed imaging: o 501R44842 – Lotem 800 S o 501R44974 – with GTO plate size support o 501P40779 – with GTO and 0.15 plate size and thickness support • F speed imaging: o 501R44950 – Lotem 800 F o 501R44975 – with GTO plate size support o 501P40781 – with GTO and 0.15 plate size and thickness support
Components	
Standard Hardware	• Lotem 800 base engine • Monitor, keyboard and mouse • Transformer (for 220V – 240V countries only)
Standard Software	• Lotem controller software
Documentation Included	• Lotem 800 User and Safety guide
Training Included	• ½ day onsite operator training at the end of the installation
Consumables Included	• Filters for the air system

[1] Please refer to the Creo workflow guide for details.

Options

Optional Hardware	• 501R49313: Single loading cassette: up to 100 plates[2] • 501R49395: Dual Loading cassette: up to 60 plates in the main chamber plus 10 plates in upper loading tray[2] • 501R49136: Multi Cassette Unit: fully automatic, five-cassette loader[3] • 501R49494: Customized punches selectable from 450 different punches • 501R44729: In-line Conveyor Unit: The In-line Conveyor is a bridge between the Lotem and the plate processor • 501R49164 Field Upgrade - Lotem 800 GTO Kit • 501R49468: 0.15mm (6mil) plate thickness upgrade for Lotem 800 • 510F28983: Debris removal kit for ablative process plate
Optional Software	• Creo Staccato 25 micron stochastic screening

Input

Media Size (Max/Min)	• Standard: o Around drum circumference: 905mm (35.6in.) max, 490mm (19.3) min o Along drum axis: 1130mm (44.5in.) max, 650mm (25.6) min • Optional (requires p/n 501R49164): o Around drum circumference: 905mm (35.6in.) max, 381mm (15in.) min o Along drum axis: 1130mm (44.5in.) max, 457mm (18in.) min
Media Type	• Thermal IR-sensitive aluminum plate, 830 nm • Some plates may restrict the operating range of the Platesetter system. Consult the plate manufacturer for their recommended temperature and humidity ranges for plate operations and storage. • Consult with your Creo representative for media-specific qualification status
Media Thickness	• Standard: o 0.2 to 0.3mm (8 to 12mil) • Optional (requires p/n 501R49468): o 0.15 to 0.3mm (6 to 12mil)
Light Source	• 24 or 48 Infrared fiber coupled laser diodes

Output

Image Area	• Along drum axis: full plate coverage • Around drum circumference: 893mm (35in.) max, 369mm (14.5in.) min • Head gripper margin: 6mm (0.235in.) • Tail gripper margin: 6mm (0.235in.)
Resolution	• Continuously variable resolutions from 60 to 140 dpmm (1524 to 3556 dpi)
Approved Screen Sets	• Up to 78.7 lpcm (200 lpi) • Optional Creo Staccato 25 micron stochastic screening

[2] Plates of 0.3mm (12mil) thickness including slip sheets.
[3] See “Multiple Cassette Unit for Lotem 800 Specifications” for details.

General Functions

Plate loading:	• Single, Dual or Multiple cassette units
Slip-sheet removal:	• All plates loading options supports automatic slip sheet removal
Drum Balancing:	• Paper trash can hold up to 60 paper sheets. • Automatic drum balancing according to plate size loaded

Specific Functions

In-Line Punch[4]:	• Optional automatic punching operated according to press profile selected on front end. Up to 450 punch configurations in 9 individually controlled heads (requires p/n 501R49494)
Unloading:	• Fully automatic • Optional plate conveyor to Inline processors (requires p/n 501R44729)

Performance

Imaging Time[5]	• S speed imaging: o 198 mm/min (7.80 inches/min) @ 2540 dpi • F speed imaging: o 390 mm/min (15.26 inches/min) @ 2540 dpi
Throughput[5,6]	• S speed imaging: o 10 plates per hour for 40.55” / 1030mm plate width @ 2540 dpi • F speed imaging: o 16 plates per hour for 40.55” / 1030mm plate width @ 2540 dpi
Repeatability[7]	• ±0.2 mil / ±5 microns between two plates imaged by the same Lotem 800 (at largest plate size)
Accuracy[7]	• ±0.8 mil / ±20 microns absolute accuracy (at largest plate size)
Registration[7]	• ±1.0 mil / ±25 microns between image and punch notch (at largest plate size)
Environmental Conditions[8]	• 20 to 30° C / 68 to 86° F • 50 to 60% relative humidity (non condensing)
Electrical Requirements[8]	• 120 V AC or 208 V AC (±10%) • Three phase (star) @ 20A per phase • 7.5 kW • 50/60 Hz

[4] Some restrictions may apply on complex punch configurations.
[5] Imaging time and throughput is dependant on media sensitivity. All values are for media sensitivity of 130mj/cm². See your Creo representative for media-specific imaging times.
[6] Tested with Creo workflow. For additional information about the test conditions please consult your Creo representative.
[7] Specifications for metallic media with nominal thickness.
[8] Refer to the “Lotem 800 site preparation and requirements” document for details.

Equipment Dimensions[8]

Lotem 800	• 2110x1370x1400mm (83x54x55inches) [W x D x H]
Single Cassette:	• 1250x1000x713mm (50x39x28inches) [W x D x H]
Dual loading cassette:	• 1250x1240x713mm (50x49x28inches) [W x D x H]
Multiple cassette unit:	• 1600x1370x1333mm (63x54x52.4inches) [W x D x H]

Equipment Weight[8]

Lotem 800	• 1100kg (2428lb)
Single Cassette with trolley:	• 85kg (187.4lb) without plates • 170kg (374.8lb) with 100 8-Up 0.3mm (12mil) plates
Dual loading cassette with trolley:	• 100kg (220.5lb) without plates • 160kg (353lb) with 70 8-Up 0.3mm (12mil) plates
Multiple cassette unit:	• 1095kg (2414lb) without plates • 1520kg (3351lb) with 500 8-Up 0.3mm (12mil) plates

Regulatory Compliance

Electrical / mechanical	• European Machinery Directive 98/37/EC • EN60204-1 • EN292-2
Laser	• EN60825-1 Class 1 laser product. (CE mark) • USA Federal Regulations 21CFR 1040.10 (class 1 laser product)
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. (CE mark) • USA Federal Regulations FCC 47CFR part 15 subpart B class A