LOTEM 800 II SPECIFICATIONS

Product Description

The Lotem 800 II is an 8-page thermal CTP device that combines superior automation capabilities with an upgrade path to Quantum functionality. The Lotem 800 II is designed for small, medium and large commercial printers.

Features and Benefits

- High speed – up to 29 plates per hour
- Four resolutions available – 1200 / 2400 or 1270 / 2540dpi
- Inline punching – standard and customized punches
- Automatic loading / unloading
- Creo Staccato – high definition stochastic screening

Prerequisites

- Creo workflow[1] and approved third party workflows
- Creo "Lotem 800 II Family Site Preparations and Requirements"

Product Version

- 3.75

Available Configurations

- 015-00152A-01 – Lotem 800 II 2400dpi S speed
- 015-00152A-02 – Lotem 800 II 2540dpi S speed

Components

Standard Hardware

- Lotem 800 II base engine
- Debris Removal cabinet type B
- Monitor, keyboard and mouse
- Transformer (for 220V – 240V countries only)

Standard Software

- Lotem controller software

Documentation Included

- Lotem 800 User Guide
- Lotem 800 Safety Guide

Training Included

- ½ day onsite operator training at the end of the installation

Consumables Included

- One filter for the head cooling system
- One filter for the debris removal cabinet

Options

Optional Hardware

- 015-00152A-08 – Factory Installed F Speed option for Lotem 800 II Family (for performance and Premium lines)
- 015-00152A-09 – Factory Installed V Speed option for Lotem 800 II Family (29pph for performance and Premium lines)
- 015-00152A-12 – Factory Installed 0.15mm Plate Thickness for Lotem 800 (All Models)
- 015-00152A-13 – Factory Installed MCU for Lotem 800 (All Models)
- 015-00152A-14 – Single Cassette for all Lotem 800 models
- 015-00152A-15 – Dual Loading Cassette for new Lotem 800 models
- 015-00152A-18 – Factory Installed Spectrum option for Lotem 800 II Family with MatchPrint media
- 015-00152A-19 – In-line Conveyor Unit for all Lotem 800 (All Models)
- 501R49946 – Field Upgrade Quantum technology for Lotem 800 II
- 501R49494 – Lotem 800/400 One punch hole (All Models)
- 02-4343A – High temperature option

Optional Software

- Creo Staccato 25 micron high definition stochastic screening

[1] Please refer to the Creo workflow connectivity kit specifications for details

Lotem 800 II Specifications

Input

Media Size	• Around drum circumference: 905mm (35.6in.) max, 381mm (15in.) min • Along drum axis: 1130mm (44.5in.) max, 455mm (17.9in.) 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 0.4mm (8 to 16mil) • Optional (requires p/n 015-00152A-12): o 0.15 to 0.3mm (6 to 12mil)
Light Source	• Infrared laser diode

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	• 47.2 and 94.4dpmm (1200 and 2400dpi) **OR** • 50 and 100dpmm (1270 and 2540dpi)
Approved Screen Sets	• Up to 78.7 lpcm (200 lpi) • Creo Staccato 25 micron high definition stochastic screening

General Functions

Plate loading Slip-sheet removal Drum balancing Plate registration	• Single, Dual or Multiple cassette units • All plates loading options supports automatic slip sheet removal • Paper trash can hold up to 60 paper sheets[2]. • Automatic drum balancing according to plate size loaded • Media edge registration: o horizontal edge to pins mounted on drums o vertical edge by precise optical sensor

Specific Functions

In-Line Punch[3]	• Optional automatic punching operated according to press profile selected on front end. Up to 9 individually controlled heads out of 320 punch configurations in (requires p/n 501R49494)
Unloading	• Optional connectivity to Inline processors (requires p/n 015-00152A-19)

[2] Additional capacity available upon request
[3] Some restrictions may apply on complex punch configurations.

Lotem 800 II Specifications

Performance

Imaging time[4]	• S speed imaging: o 386mm/min (15.20inches/min) @ 2400 dpi, 1200 dpi o 244mm/min (9.61inches/min) @ 2540 dpi, 1270 dpi • F speed imaging: o 566mm/min (22.30inches/min) @ 2400 dpi, 1200 dpi o 390mm/min (15.26inches/min) @ 2540 dpi, 1270 dpi • V speed imaging: o 873mm/min (34.36inches/min) @ 2400 dpi, 1200 dpi o 833mm/min (32.96inches/min) @ 2540 dpi, 1270 dpi
Throughput[4,5]	• S speed imaging: o 15 plates per hour for 1030mm (40.55in.) plate width @ 2400dpi o 14 plates per hour for 1030mm (40.55in.) plate width @ 2540dpi • F speed imaging: o 22 plates per hour for 1030mm (40.55in.) plate width @ 2400dpi o 21 plates per hour for 1030mm (40.55in.) plate width @ 2540dpi • V speed imaging: o 29 plates per hour for 1030mm (40.55in.) plate width @ 2400dpi o 28 plates per hour for 1030mm (40.55in.) plate width @ 2540dpi
Repeatability[6]	• ±5 microns (±0.2 mil) between two plates imaged by the same Lotem 800 II under identical environmental conditions (at largest plate size)
Accuracy[6]	• ±20 microns (±0.8 mil) absolute accuracy (at largest plate size)
Registration[6]	• ±25 microns (±1.0 mil) between image and edge (at largest plate size)
Environmental Conditions[7]	• Standard: o 20 to 27°C (68 to 80°F) • Optional (requires p/n 02-4343A): o 20 to 30°C (68 to 86°F) • 50 to 60% relative humidity (non condensing)
Electrical Requirements[7]	• 120V AC or 208V AC ±10% • Three phase (star) @ 20A per phase • 4kW • 50/60Hz
Equipment Dimensions[7]	
Lotem 800 II	• 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]

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

Lotem 800 II Specifications

Equipment Weight[7] (approx.)

Lotem 800 II	• 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