LOTEM 800 II QUANTUM SPECIFICATIONS

Product Description

The Lotem 800 II Quantum is the Kodak top-of-the-line 8-up CTP device. It combines SQUAREspot imaging technology with superior automation capabilities.
The Lotem 800 II Quantum is targeted to the medium and large commercial printing market.

Features and Benefits

- High speed – up to 31 plates per hour
- Four resolutions available – 1200 / 2400 or 1270 / 2540dpi
- Inline punching – standard and customized punches
- Automatic loading / unloading
- Kodak Staccato – high definition stochastic screening

Prerequisites

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

Product Version

- 3.8

Available Configurations

- 015-00152A-03 – Lotem 800 II Quantum 2400dpi S speed
- 015-00152A-04 – Lotem 800 II Quantum 2540dpi S speed

Components

Standard Hardware

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

Standard Software

- Lotem controller software
- Kodak Staccato 20 micron high definition stochastic screening

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 (31pph for performance and Premium lines)[2]
- 015-00152A-18 – Factory Installed Spectrum option for Lotem 800 II Family (S and F speeds only) with MatchPrint media
- 015-00152A-13 – Factory Installed MCU for Lotem 800 (All Models)
- 015-00152A-12 – Factory Installed 0.15mm Plate Thickness 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-19 – In-line Conveyor Unit for all Lotem 800 (All Models)
- 501R49494 – Lotem 800/400 One punch hole (All Models)
- 02-4343A – High temperature option

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

Lotem 800 II Quantum Specifications

Optional Software	• Kodak Staccato 10 micron high definition stochastic screening
Input	
Media Size	• Around drum circumference: 905mm (35.6in.) max, 360mm (14.1in.) min • Along drum axis: 1130mm (44.5in.) max, 447mm (17.5in.) min • With 0.15 mm plates (6 mil) option, maximum media size is 459mm x 525mm (18 x 20.6 in.)
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 Kodak 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 177 lpcm (450 lpi) • Kodak Staccato 10 & 20 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[3]. • Automatic image on plate expansion and contraction according to ambient temperature for maximum accuracy • 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[4]	• 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)

[2] Available on devices shipped after October 1, 2005.

[3] Additional capacity available upon request

Lotem 800 II Quantum Specifications

Unloading	• Optional connectivity to Inline processors (requires p/n 015-00152A-19)
Performance	
Imaging time[5]	• 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[4,6]	• 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 31 plates per hour for 1030mm (40.55in.) plate width @ 2400dpi o 30 plates per hour for 1030mm (40.55in.) plate width @ 2540dpi
Repeatability[7]	• ±5 microns (±0.2 mil) between two plates imaged by the same Lotem 800 II (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[8]	• 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]

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

Lotem 800 II Quantum Specifications

Multiple cassette unit	• 1600x1370x1333mm (63x54x52.4inches) [W x D x H]
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