Kodak TRENDSETTER 400 III QUANTUM SPECIFICATIONS

Product description

The Kodak® Trendsetter® 400 III Quantum is a semiautomatic platesetter that uses Kodak SQUAREspot® thermal imaging technology to expose plates for conventional and waterless printing. The Trendsetter 400 III Quantum device can be equipped with an Autoloader or ContinuousLoad option.

Features and benefits

- SQUAREspot thermal imaging head—2400 dpi
- Temperature compensation
- Machine-to-machine accuracy
- Dynamic autofocus
- Semiautomatic media loading and unloading
- Automatic registration
- Automatic plate clamping
- Kodak Staccato® FM screening included with Kodak Prinergy® and Kodak Prinergy® Evo™ workflows

Prerequisites

- Compliance with *Trendsetter 400/800 III Site Preparation Guide* (707-00566)
- Kodak-approved workstation (contact a sales representative for workstation options)
- Prinergy, Prinergy Evo workflow system, or approved third-party workflow capable of supplying 1-bit TIFF files
- Processing line and other system peripherals must be of adequate performance in order to achieve full throughput. Consult with appropriate vendors to ensure sufficient performance can be achieved.

Components

Standard hardware:

- Plot engine
- SQUAREspot thermal imaging head—40 W, 2400 dpi
- V-speed imaging
- Debris removal system
- Semiautomatic media loader

Standard software: Staccato 20 Series Screen Sets

Documentation:

- *Trendsetter 400/800 III Visual Reference Guide* (653-01284)
- *Trendsetter Output Devices Safety Guide* (761-00029A)

Training included: On-site operator training for one person

Consumables included: Filters

Options

Optional hardware:

- Autoloader (see *Autoloader Specifications* (707-00564) for details)
- ContinuousLoad (see *ContinuousLoad Specifications* (707-00565) for details)

Optional software:

- Staccato 10 Series Screen sets available as an option with Prinergy and Prinergy Evo workflows

	• Variable Mainscan Resolution (see *VMR Specifications* (707-00272) for details)
Input	
Media size (maximum/ minimum)	• Around-drum circumference: 838 mm (33 in.) maximum, 270 mm (10.6 in.) minimum • Along-drum axis: 990 mm (39 in.) maximum, 229 mm (9 in.) minimum
Media type	• Thermal IR-sensitive aluminum plate and film, 830 nm • For a list of qualified media, see the individual media specifications .
Media thickness	0.14 mm to 0.40 mm (0.0055 in. to 0.016 in.) for plates
Output	
Non-imaged areas	6.1 mm (0.24 in.) along leading edge and 7.6 mm (0.30 in.) along trailing edge
Resolution	• 2400 dpi or 1200 dpi • Maximum recommended line screen: 450 lpi • Staccato screen sets[1]: Staccato 20 Series included; Staccato 10 Series option available
Specific functions	
Automatic registration:	• Media edge—registered horizontally to pins mounted on drum • Vertical edge located with precise optical sensing • Image size is adjusted automatically to compensate for plate thermal expansion and contraction.
Automatic clamping	Adjusts to any plate size (within the maximum and minimum allowed)
Performance	
Imaging speed	• V-speed (standard): 944 mm (37.2 in.) per minute @ 2400 dpi
Throughput[2]	• V-speed: 43 plates per hour (50 with Autoloader or ContinuousLoad option)
Repeatability[3]	± 5 microns (± 0.2 mil) between two consecutive exposures on the same plate left on the drum (at largest plate size and over full temperature range)
Accuracy[3]	± 20 microns (± 0.8 mil) between two plates imaged by different Trendsetter devices (at largest plate size and over full temperature range)
Registration[3]	± 25 microns (± 1.0 mil) between image and plate edge (at largest plate size and over full temperature range)

1. Support for Staccato is limited to qualified plates; consult your Kodak representative for the current qualification list.
2. Imaging time is based on a 724-mm (28.5-in.) plate with a media sensitivity of 120 mJ per cm^2. Imaging time is dependent on media sensitivity.
3. Specifications for metallic media only

Environmental conditions	• 17º to 30ºC (63º to 86ºF) and 20% to 70% relative humidity, non-condensing • Prepress or platemaking environment • Some media may restrict the operating range of the platesetter system. Consult the media manufacturer for their recommended temperature and humidity ranges for plate operations and storage.
Electrical requirements	• Rating: 200–240 VAC, 15 A, 50/60 Hz, (dedicated single-phase branch circuit required, 20 A for NA and 16 A for EU) • Actual current draw while imaging: 3.4 A, 0.790 kW
Noise emissions	The Trendsetter output device has been designed, tested, and evaluated for compliance with the maximum noise emission limit permitted for an office environment—70 dB(A). Noise emissions from the Trendsetter output device will not exceed 69dB(A) when tested in accordance with EN ISO 7779:2001, Acoustics - Measurement of airborne noise emitted by information technology and telecommunications equipment.
Compressed air requirements	370 liters per minute at 620-830 kPa (13 scfm @ 90-120 psig)
Equipment dimensions	• Width 2830 mm (111.4 in.) • Depth 1070 mm (42 in.) • Height 1600 mm (63 in.)
Equipment weight	• Trendsetter platesetter 544 kg (1200 lb.) • Debris removal system (UDRC) 57 kg (125 lb.)
Regulatory compliance	• ELECTRICAL/MECHANICAL: CSA 60950-1, UL 60950-1, EN 60950-1, EN 60204-1, Low Voltage Directive 73/23/EEC, Directive of Machinery 98/37/EC • LASER SAFETY: CDRH 21 CFR 1040.10, EN 60825-1 (Class 1 Laser Product) • EMC: FCC Part 15, (Class A), EN 55022/CISPR-22 (Class A), EN 55024, EN 61000-3-3, Directive of Electromagnetic Compatibility 2004/108/EC