# 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* (761-00029)

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

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| | • 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<br>• Along-drum axis: 990 mm (39 in.) maximum, 215 mm (8.5 in.) minimum |
| Media type | • Thermal IR-sensitive aluminum plate and film, 830 nm<br>• 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<br>• Maximum recommended line screen: 450 lpi<br>• 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<br>• Vertical edge located with precise optical sensing<br>• 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

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| **Environmental conditions** | • 17º to 30ºC (63º to 86ºF) and 20% to 70% relative humidity, non-condensing<br>• Prepress or platemaking environment<br>• 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)<br>• 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 a light industrial environment—80 dB(A). Noise emissions from the Trendsetter output device will not exceed 74 dB(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.)<br>• Depth 1070 mm (42 in.)<br>• Height 1600 mm (63 in.) |
| **Equipment weight** | • Trendsetter platesetter 544 kg (1200 lb.)<br>• 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<br>• LASER SAFETY: CDRH 21 CFR 1040.10, EN 60825-1 (Class 1 Laser Product)<br>• 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 |