# TRENDSETTER VLF QUANTUM SPECIFICATIONS

**Product Description**

The Trendsetter VLF Quantum is a semi-automatic, very large format platesetter that uses SQUARESpot™ thermal imaging to expose plates for conventional and waterless printing.

**Features and Benefits**

- SQUARESpot thermal imaging head - 1200/2400 dpi
- Temperature compensation
- Machine to machine accuracy
- S-Speed imaging
- Dynamic auto-focus
- Semi-automatic media loading and unloading
- Automatic registration
- Automatic clamping
- Electronic registration confirmation
- Staccato® FM screening included with Brisque™, Prinergy® and iMPAct workflows.

**Prerequisites**

- Kodak approved workstation. Contact your Kodak representative for workstation and device connectivity options.

**Product Version**

- Trendsetter VLF Quantum

**Available Configurations**

- 4557, 5067, 5080, 5467, 5880

**Components**

Standard Hardware:

- Plot Engine
- S-speed SQUARESpot thermal imaging head – 1200/2400 dpi
- Semi-automatic media loader

Standard Software:

- Staccato stochastic screening

Documentation Included:

- Trendsetter VLF Operator Manual

Training Included:

- On-site operator training for one person

Consumables Included:

- Not applicable

**Options**

Optional Hardware:

- F and V imaging speed options

**Input**

Media type:

- Thermal IR-sensitive aluminum plate, 830 nm
- See your Kodak representative for qualified media list

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| Media size[1]: | • Maximum<br>▪ 4557: 1143 mm x 1448 mm (45 in. x 57 in.)<br>▪ 5067: 1270 mm x 1702 mm (50 in. x 67in.)<br>▪ 5080: 1270 mm x 2032 mm (50 in. x 80in.)<br>▪ 5467: 1371 mm x 1702 mm (54 in. x 67in.)<br>▪ 5880: 1473 mm x 2032 mm (58 in. x 80in.)<br>• Minimum<br>▪ All configurations: 508 mm x 394 mm (20 in. x 15.5 in.) |
| Media thickness: | • 0.15 mm to 0.40 mm (0.006 in. to 0.016 in.)<br>or 0.25 mm to 0.50 mm (0.010 in. to 0.020 in.) |

**Output**

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| Resolution: | • 2400 dpi, 1200 dpi<br>• Maximum recommended line screen: 450 lpi<br>• Staccato screens: Staccato 20 micron included, Staccato 10 (10 microns minimum dot size)[2] available |
| Non-imaged areas: | • 6.1 mm (0.240 in.) along leading edge and 7.6 mm (0.300 in.) along trailing edge.<br>• 6.9 mm (0.270 in.) along leading edge and 8.4 mm (0.330 in.) along trailing edge for 0.50 mm (0.020 in.) thick plates |

**Specific Functions**

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| 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**

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| Imaging Speed[3]: | • S: 200 mm/min [7.8 in/min] @ 2400 dpi, 1200 dpi<br>• F: 330 mm/min [13 in/min] @ 2400 dpi, 1200 dpi<br>• V: 614 mm/min [24.1 in/min] @ 2400 dpi, 1200 dpi |
| Non-Imaging Time[4] | • 1.5 minutes |

[1] Plate dimension format: [*around drum diameter* x *along drum axis*].

[2] Support for Staccato 10 is limited to qualified plates; please consult your Kodak representative for current qualification list.

[3] Imaging speed is dependent on media sensitivity. Consult your Kodak representative for media-specific imaging speeds.

[4] Non-imaging time does not include operator plate handling (estimated plate handling is less than 30 seconds).

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| Image Repeatability[5]: | • 8 microns [0.3 mils] between two plates imaged by the same Quantum device (at largest plate size) |
| Image Accuracy[5]: | • 30 microns [1.2 mils] between two plates imaged by different Quantum devices (at largest plate size) |
| Registration[5]: | • 25 microns (1.0 mils) between image and edge (at largest plate size) |
| **Environmental Conditions** | • $17^{O}$ to $30^{O}$C ($63^{O}$ to $86^{O}$F) and 20% to 70% relative humidity, non-condensing.<br>• Prepress or plate making environment.<br>• Compliance with Trendsetter VLF Site Preparations and Requirements document 73-3146A.<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, 20 Amps, 50/60Hz, single phase branch circuit<br>• Actual current draw 5A, 1Kw. |
| **Compressed Air Requirements** | • 283 L/min at 620-830 kPa [10 scfm @ 90-120 psig] |
| **Equipment Dimensions** | • Width 3099 mm [122 in.]<br>• Depth 1803 mm [71 in.]<br>• Height 1727 mm [68 in.] (to top of load ramp)<br>or 1143 mm [45 in.] (to top of housing) |
| **Equipment Mass (Weight)** | • 1225 kg (2700 lbs) |
| **Regulatory Compliance** | • ELECTRICAL/MECHANICAL: UL 1950, CSA 950, EN 60950, EN 60204-1, amended Low Voltage Directive 73/23/EEC, Machinery Directive 98/37/EC<br>• LASER SAFETY: CDRH 21 CFR 1040.10 and 1040.11, EN 60825-1 / IEC 60825-1 Class 1 Laser Product<br>• EMC: FCC Part 15 - Class A, EN 55022 / CISPR - 22 - Class A, EN 50082-2, EN 61000-3-3, Class A ITE (Japan, V CCI certification), AS/NZS 3548, EMC Directive 89/366/EEC |

[5] Specifications are for metallic media only.