TRENDSETTER 800 II QUANTUM SPECIFICATIONS

Product Description

The Trendsetter 800 II Quantum is a semi-automatic Platesetter that uses SQUARESpot™ thermal imaging to expose plates for conventional and waterless printing. The 800 II Quantum can be equipped with Spectrum digital half tone proofing, Autoloader or chemistry-free plate imaging option.

Features and Benefits

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

Prerequisites

- Creo approved Workstation (see sales rep. for workstation options)
- Render Station must have at least 1Gb RAM and 2x 733MHz CPU's in order to achieve full throughput at V speed (i.e.: DELL 2400 Server)
- Processing line and other system peripherals must be of adequate performance in order to achieve full throughput at V speed. Please consult with appropriate vendors to ensure sufficient performance can be achieved.

Components

- Standard Hardware:
  - Plot Engine 32" x 44" / 813 mm x 1118 mm
  - Squarespot™ Thermal Imaging Head – 40W, 2400 dpi
  - Standard S speed imaging
  - Debris removal system
  - Semi-automatic media loader
  - Overall equipment dimensions:
    - Width 111"/2820 mm
    - Depth 43"/1092 mm
    - Height 62"/1575 mm (to top of load ramp) or 36" / 914 mm (to top of housing)
- Standard Software:
  - Creo Staccato 20 series screen sets
- Documentation:
  - *Trendsetter 400/800 II Operator Manual 653-00119*
- Training Included:
  - On-site operator training for one person
- Consumables Included:
  - Filters

Options:

- Optional Hardware:
  - F speed imaging option
  - V speed imaging option
  - Autoloader Option (see Autoloader specs for detail)
  - Spectrum Halftone Proofing Option (see Spectrum specs for detail)
  - Chemistry-Free Plate Imaging option
  - High temperature kit
- Optional Software:
  - Staccato® 10 Series Screen sets available as an option with Brisque™, Prinergy® and iMPAct workflows

Input

- Media size (max/min)
  - Around the drum circumference: 33”/ 838 mm max, 12”/305 mm min
  - Along the drum axis: 45”/1143 mm max, 9”/229 mm min
- Media type
  - Thermal IR-sensitive aluminum plate and film, 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.
  - Refer to the individual media spec. sheets for a list of qualified medias
- Media thickness
  - 0.006" to 0.016" / 0.15 mm to 0.40 mm for plates

Output

- Non-imaged areas:
  - 6.1 mm (0.240”) along leading edge and 7.6 mm (0.300”) along trailing edge.
- Resolution
  - 2400/1200 dpi (1200dpi available on V speed only)
  - Maximum recommended line screen: 450 lpi
  - Staccato screen sets[1]: Staccato 20 Series included; Staccato 10 Series (available option)

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
  - S Speed (standard): 330 mm/min [13.0 inch/min] @ 2400 dpi
  - F Speed (option): 536 mm/min [21.1 in/min] @ 2400 dpi
  - V Speed (option): 850 mm/min [33.5 inch/min] @ 2400 dpi

---

[1] Support for Staccato is limited to qualified plates; please consult your Creo representative for current qualification list.

• Throughput[2]	• S Speed: 15 plates per hour (16 with Autoloader option) • F Speed: 22 plates per hour (24 with Autoloader option) • V Speed: 30 plates per hour (34 with Autoloader option)
• Repeatability[3]	• ± 2.5microns between two plates imaged by the same Trendsetter (at largest plate size)
• Accuracy[3]	• ± 10 microns between two plates imaged by different Trendsetters (at largest plate size)
• Registration[3]	• ± 12.5 microns between image and plate 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.[4] Prepress or platemaking environment. • Compliance with Trendsetter Site Preparations and Requirements document 707-00043. 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 • Actual current draw while imaging 3.4A, 0.790Kw.
Compressed Air Requirements	• 370 L/min at 620-830 kPa [13 scfm @ 90-120 psig]
Equipment Dimensions	• Width 282cm [111”] • Depth 109cm [43”] • Height 152cm [60”]
Equipment Weight	• Trendsetter 544kg [1200lb]Debris removal system (UDRC) 57kg [125lb]
Regulatory Compliance	• ELECTRICAL/MECHANICAL CSA 950/UL 1950 (CSA NRTL/C Mark), EN 60950/IEC 950 (CE Mark) • LASER SAFETY: CDRH, US Federal Regulations 21 CFR 1040.10, 1040.11 (Class 1 Laser Product), EN 60825/IEC 825-1 (Class 1 Laser Product) • EMC: FCC Part 15, (Class A), EN 55022/CISPR-22 (Class A), EN 55082-2/IEC 1000-4-2, 1000-4-3, 1000-4-4, 1000-4-6, 1000-4-8

[2] Imaging time based on 1029 mm [40.5”] plate. Imaging time dependant on media sensitivity.
[3] Specifications for metallic media only
[4] For higher temperature requirements, a “high temperature” option is available. See “Optional Hardware”


C
US


ISO 9001:2000
OMI
REGISTERED QUALITY SYSTEM