MAGNUS VLF WITH CONTINUOUSLOAD SPECIFICATIONS

Specifications subject to change, please consult a Kodak representative.

Product Description

- The robust, highly productive *Kodak Magnus* VLF platesetter with ContinuousLoad (CL) offers automatic operation, stability, easy maintenance, and superior imaging quality for very large format web and sheetfed printers.

Features and Benefits

- 830-nm thermal imaging head with dynamic autofocus
- Automatic plate loading and unloading
- Independent load and unload tables for high productivity
- Automatic registration with electronic confirmation
- Status indicator lights
- Connectivity for remote service access
- Three-point plate registration with a configurable third point

Prerequisites

- Device connectivity kit for a qualified *Kodak* workflow including *Kodak Prinergy*, *Kodak Prinergy Evo*, or *Kodak Brisque*
- Device connectivity kit with TIFF Downloader for third-party workflow connectivity

Available Configurations

- 4570, 5183, 5570, or 6383 engine sizes
- Left-side or right-side plate eject
- 2400 dpi or 2540 dpi

Components

Standard Hardware:

- External drum imaging engine
- S-speed thermal imaging
  - 7.8 lines/mm (200 lines/inch) maximum resolution
  - *Kodak Staccato* 25 series screen sets (available option)
- ContinuousLoad pull-out table
- Internal debris collection

Documentation Included:

- Magnus VLF with ContinuousLoad Operator Guide
- Magnus VLF with ContinuousLoad Visual Reference Guide.

Training Included:

- Two days of on-site operator training

Options

Imaging Heads:

- F-speed, V-speed, and X-speed[1] imaging
- 1200 dpi V-speed thermal imaging
  - 7.8 lines/mm (200 lines/inch) maximum resolution
  - *Staccato* 25 series screen sets (available option)

Quantum Feature Set:

- Includes:
  - *SQUAREspot* thermal imaging head
  - 17.7 lines/mm (450 lines/inch) maximum resolution
  - *Staccato* 20 series screen sets
  - *Staccato* 10-capable imaging for supported media configurations
  - Machine-to-machine accuracy over complete temperature range of any two Quantum devices

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Single-plate-leading-edge punch:

- Up to 10 customized punch heads selectable from a list of punches qualified for the *Magnus* VLF platesetter
- Automatic punching is operated according to a user-defined press profile
- Capable of punching the leading edge of the thermal plate
- Plates being punched must be single plates loaded to imaging drum

Automation and registration:

- Dual plate loading and side-edge registration
- Processor interface cable

Performance

Plate Throughput [2]:

- See your Kodak representative for throughput targets based on your specific format sizes, loading orientation, and media sensitivity.

Device Throughput Table for 5183 Devices (in plates per hour):

Plate along press cylinder dimension x around press cylinder dimension	940 x 572 mm (37 x 22.5 in.)	1448 x 572 mm (57 x 22.5 in.)	1030 x 800 mm (40.5 x 31.5 in.)	1524 x 1143 mm (60 x 45 in.)	2070 x 1295 mm (81.5 x 51.0 in.)
Magnus 5183 S	13.5	9.6	12.5	9.1	7.0
Magnus 5183 F	21.8	16.4	20.5	15.6	12.4
Magnus 5183 V	30.1	24.0	28.6	22.9	18.9
Magnus 5183 V with dual-plate option	45.6	24.0	38.9	22.9	18.9
Magnus 5183 X	39.9	34.4	38.4	32.9	28.7
Magnus 5183 X with dual-plate option	48.0	34.4	48.0	32.9	28.7

Device Throughput Table for 6383 Devices (in plates per hour):

Plate along-press cylinder dimension x around-press cylinder dimension	940 x 572 mm (37 x 22.5 in.)	1448 x 572 mm (57 x 22.5 in.)	1030 x 800 mm (40.5 x 31.5 in.)	1524 x 1143 mm 60 x (45 in.)	2070 x 1562 mm (81.5 x 61.5 in.)
Magnus 6383 S	13.5	9.6	12.5	9.1	7.0
Magnus 6383 F	21.8	16.4	20.5	15.6	12.4
Magnus 6383 V	27.2	21.3	25.8	20.4	16.5
Magnus 6383 V with dual-plate option	41.6	41.2	34.9	23.9	16.5
Magnus 6383 X	37.3	31.6	35.9	30.3	25.8
Magnus 6383 X with dual-plate option	48.0	48.0	47.4	33.6	25.8

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Non-imaged areas:	• 6.1-mm-wide (0.240 in.) strip along leading edge and a 7.6-mm-wide (0.300 in.) strip along trailing edge.
Image Repeatability:	• 15 microns (0.6 mils) between two plates imaged by the same device at the same temperature.
Image Repeatability (with Quantum Feature Set):	• 15 microns (0.6 mils) between two plates imaged by the same device over the complete device temperature range.
Image Accuracy (with Quantum Feature Set):	• 35 microns (1.4 mils) between two plates imaged by different devices over the complete device temperature range.
Registration:	• 25 microns (1.0 mils) between image and edge at registration points.

Media

Media type[3]:

- 830-nm thermal IR-sensitive aluminum plates which conform to ISO 12635:1996 for plate dimensions

Media thickness:

- 0.20–0.40 mm (0.008–0.015 in.)

Supported media sizes:

- Single-loaded plates

Engine	Around-drum diameter dimension Plate size range mm (in.)	Along-drum diameter dimension Plate size range mm (in.)
4570	483–1168 (19.0–46)	394–1804 (15.5–71)
5183	483–1296 (19.0–51)	394–2083 (15.5–82)
5570	483–1422 (19.0–56)	394–1804 (15.5–71)
6383	483–1600 (19.0–63)	394–2083 (15.5–82)

- Dual-loaded plates (requires dual plate loading and side-edge registration option)

Engine	Around-drum diameter dimension Plate size range mm (in.)	Along-drum diameter dimension Plate size range mm (in.)
4570	483–1168 (19.0–46)	394–864 (15.5–34)
5183	483–1296 (19.0–51)	394–1032 (15.5–40.6) [4]
5570	483–1422 (19.0–56)	394–864 (15.5–34)
6383	483–1524 (19.0–60)	394–1032 (15.5–40.6)

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Environmental Conditions [5]	• 17°C to 30°C (63°F to 86°F) and 20% to 60% relative humidity, non-condensing. See the Magnus VLF ContinuousLoad Site Preparation Guide (725-00033A).
Electrical Requirements	• Three circuits at 200–240 VAC, 30 A, 50 or 60 Hz, single phase. • Less than 35 A typical total operating current
Compressed Air Requirements	• 17 m^3/hr (10 scfm) typical operating flow • 34 m^3/hr (20 scfm) peak flow • 620 kPa (90 psig) minimum supply pressure
Equipment Dimensions	• Width: 4055 mm (159.7 in.) including side ejector bridge • Depth: 2590 mm (102.0 in.) • Height: 1550 mm (61.0 in.) to top of hood, 2200 mm (86.6 in.) to top of open hood • Plate ejector height (adjustable): 950–1000 mm (37.4–39.37 in.) • External vacuum pump enclosure: 670 mm wide x 1435 mm deep x 510 mm high (26.4 in. x 56.5 in. x 20 in.). The vacuum pump is typically located under the ejector bridge.
Equipment Mass (Weight)	• 2270 kg (5000 lb) approximate.
Regulatory Compliance	• ELECTRICAL/MECHANICAL: UL 60950-1, CSA 60950-1, EN 60950-1, EN60204-1, amended Low Voltage Directive 73/23/EEC, Machinery Directive 98/37/EC. • LASER SAFETY: CDRH 21 CFR 1040.10 and 1040.11, EN 60825-1 /IEC 60825-1 Class 1 Laser Product. • EMC: FCC Part 15 - Class A, EN 55011 / CISPR 11 - Class A, EN 61000-6-2, AS/NZS CISPR11, EMC Directive 89/366/EEC.

[1] X-speed imaging is only available in 2400 dpi with Quantum Feature Set.

[2] Device throughput is dependant on media sensitivity and qualified screening. Throughputs are shown for *Kodak Thermal Gold* and *Kodak* DITP Gold media imaging *Staccato* 20. Processing line, workstation, and other system peripherals must be of adequate performance in order to achieve full throughput.

[3] *Magnus* VLF qualified plates only. See your Kodak representative for specific media information.

[4] Offset register for plates with along drum dimensions between 907–1032 mm (35.7–40.6 in.).

[5] Some media and processing requirements may further restrict the required room environmental conditions. Consult the plate manufacturer for their recommended temperature and humidity ranges for plate operations and storage.