MAGNUS VLF SPECIFICATIONS

Specifications subject to change, please consult a Kodak representative.

Please consult Magnus VLF with Multi-Cassette Unit specification (707-00177A) and Magnus VLF with ContinuousLoad specification (707-00178A) for information about devices that include those options.

Product Description

- The robust, highly productive *Kodak Magnus* VLF platesetter Semi-Automatic (SA) offers semiautomatic 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
- Semiautomatic plate loading and unloading
- Automatic registration with electronic confirmation
- Automatic clamping
- 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* workflows
- Device connectivity kit with TIFF Downloader for third-party workflow connectivity

Available Configurations

- 4570, 5183, 5570, or 6383 engine sizes
- 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)
- Internal debris collection

Documentation Included:

- Magnus VLF Operator Guide
- Magnus VLF Visual Reference Guide

Training Included:

- One day of on-site operator training

Options

Imaging Heads:

- F-speed and V-speed 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 the complete temperature range of any two Quantum devices

Hardware:

- Dual plate loading and side-edge registration

Performance

Plate Throughput [1]:

- 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 × 572 mm (37 × 22.5 in.)	1448 × 572 mm (57 × 22.5 in.)	1030 × 800 mm (40.5 × 31.5 in.)	1524 × 1143 mm (60 × 45 in.)	2070 × 1295 mm (81.5 × 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

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 mm 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

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 the 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

Specifications subject to change, please consult a Kodak representative.

Media

Media type[2]:

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

Media thickness:

- 0.15 mm to 0.40 mm (0.006 in. to 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	394–1168 (15.5–46)	394–1804 (15.5–71)
5183	394–1296 (15.5–51)	394–2083 (15.5–82)
5570	394–1422 (15.5–56)	394–1804 (15.5–71)
6383	394–1562 (15.5–61.5)	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	394–1168 (15.5–46)	394–864 (15.5–34)
5183	394–1296 (15.5–51)	394–1032 (15.5–40.6) [3]
5570	394–1422 (15.5–56)	394–864 (15.5–34)
6383	394–1562 (15.5–61.5)	394–1032 (15.5–40.6)

Environmental Conditions [4,]

- 17°C to 30°C (63°F to 86°F) and 20% to 60% relative humidity, non-condensing
- Compliance with Magnus VLF Site Preparation Guide (725-00032A)

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

- 8 m^3/hr (5 scfm) typical operating flow
- 17 m^3/hr (10 scfm) peak flow
- 620 kPa (90 psig) minimum supply pressure

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Equipment Dimensions	• Width: 3225 mm (127.0 in.) • Depth: 2340 mm (92.2 in.) • Height: table 830 mm (32.2 in.), top of hood 1195 mm (47.0 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.).
Equipment Mass (Weight)	• 1760 kg (3870 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] Device throughput depends 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.

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

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

[4] Some media/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.