# MAGNUS VLF WITH AUTOMATIC PALLET LOADER SPECIFICATIONS

Specifications subject to change, please consult a Kodak representative.

**Product Description**

- The robust, highly productive Kodak® Magnus™ VLF platesetter with the fully automatic pallet loader (APL) offers stability, easy maintenance and superior imaging quality for very large format web and sheet-fed printers.

**Features and Benefits**

- 830 nm thermal imaging head with dynamic autofocus
- Automatic plate loading and unloading for unattended operation
- Automatic slip sheet removal
- High capacity automatic pallet loader with up to four bays (two bays per segment)
- Independent load and unload tables for high productivity
- Automatic registration with electronic confirmation
- Manual bypass for convenient remakes
- 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 and 5183 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)
- One or two segment automatic pallet loader with automatic slip sheet removal, automatic load and unload system
- Pull-out load table for manual bypass
- Internal debris collection

Slip sheet Disposal:

- High capacity removable bin for each bay
- Typical capacity of 600 full-sized slip sheets

Documentation Included:

- Magnus VLF Safety Guide (761-00039A)
- Magnus VLF with Automatic Pallet Loader Visual Reference Guide (732-00116A)

Training Included:

- Two days of on-site operator training

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## 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

**Automation and registration:**

- Dual plate loading and side-edge registration
- Processor interface cable
- Delicate media handling

## 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 | 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 | 12.5 | 9.1 | 7.0 |
| Magnus 5183 F | 20.5 | 15.6 | 12.4 |
| Magnus 5183 V | 28.6 | 22.9 | 18.9 |
| Magnus 5183 V with dual-plate option | 38.9 | 22.9 | 18.9 |
| Magnus 5183 X | 38.4 | 32.9 | 28.7 |
| Magnus 5183 X with dual-plate option | 48.0 | 32.9 | 28.7 |

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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** | |
| Automatic-Pallet-Loader Capacity: | • Four bays, each holding up to 244 mm (9.6 in.) of plates and slip sheets. Example for 0.3 mm thick (0.012 in.) plates; 600 plates and 600 slip sheets per bay.<br>• Segment one is capable of loading two 1030 mm (40.6 in.) plate stacks or one 2083 mm (82 in.) plate stack maximum.<br>• Segments two is capable of loading two 876 mm (34.5 in.) plate stacks or one 2083 mm (82 in.) plate stack maximum.<br>• Segment dividers can be repositioned to accommodate larger dual pallets in two segment configurations. |
| Media type[3]: | • 830 nm thermal IR sensitive aluminum plates that conform to ISO 12635:1996 for plate dimensions<br>• Kodak Thermal Gold, Electra Excel, Sword Excel |
| Media thickness: | • 0.20 to 0.40 mm (0.008 to 0.015 in.) |

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Supported media sizes:

- Single-loaded plates

| Engine | Around-drum diameter dimension<br>Plate size range mm (in.) | Along-drum diameter dimension<br>Plate size range mm (in.) |
|---|---|---|
| 4570 | 750–1168 (29.5–46) | 750–1804 (29.5–71) |
| 5183 | 750–1296 (29.5–51) | 750–2083 (29.5–82) |

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

| Engine | Around-drum diameter dimension<br>Plate size range mm (in.) | Along-drum diameter dimension<br>Plate size range mm (in.) |
|---|---|---|
| 4570 | 750–1168 (29.5–46) | 750–864 (29.5–34) |
| 5183 | 750–1296 (29.5–51) | 750–1032 (29.5–40.6) [4] |

**Environmental Conditions** [5]

- 17 to 30°C (63 to 86°F) and 20% to 60% relative humidity, non-condensing. See the Magnus VLF with APL Site Preparation Guide (719-00849A).

**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**

- Two airlines are required: one for the output device and one for the APL
- Each airline requires a clean, dry air supply of 1150 standard liters per minute (SLPM) @ 620 kPa min. to 830 kPa max. (40 SCFM @ 90 psi dynamic min. to 120 psi dynamic max.) of shop air, not to exceed 120 psi static.

**Equipment Dimensions**

- Width: (including the side ejector bridge)
  8191 mm (323 in.) for a single segment APL
  10813 mm (426 in.) for a two segment APL
- Depth: 3294 mm (129.5 in.) for a 51 in APL
- 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 x 56.5 x 20 in.). The vacuum pump is typically located under the ejector bridge.

**Equipment Mass (Weight)**

- 2270 kg (5000 lb) approximate for a one segment 51 in. configuration
- 2270 kg (5000 lb) approximate for the Magnus VLF

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**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.
- The Magnus VLF platesetter 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 Magnus VLF will not exceed 76 dB(A) when tested in accordance with EN ISO 7779:2001, Acoustics - Measurement of airborne noise emitted by information technology and telecommunications equipment.






[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.