MAGNUS VLF WITH CONTINUOUSLOAD SPECIFICATIONS

Early Production specifications subject to change, please consult a Kodak representative.

Product Description

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

Features and Benefits

- 830nm 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

Prerequisites

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

Available Configurations

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

Components

Standard Hardware:

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

Documentation Included:

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

Training Included:

- Two days of onsite 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) max 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

Hardware:

- Dual plate loading and side edge registration
- Single plate rotation option[2]
- Processor interface cable

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Performance

Plate Throughput [3]:

- 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 mm (37 in.) x 572 mm (22.5 in.)	1448 mm (57 in.) x 572 mm (22.5 in.)	1030 mm (40.5 in.) x 800 mm (31.5 in.)	1524 mm (60 in.) x 1143 mm (45 in.)	2070 mm (81.5 in.) x 1562 mm (51.0 in.)
Magnus 5183 S	13.4	9.5	12.5	9.1	7.0
Magnus 5183 F	21.5	16.2	20.2	15.4	12.3
Magnus 5183 V	29.4	23.6	27.9	22.5	18.6
Magnus 5183 V with dual plate option	40.7	23.6	34.2	22.5	18.6
Magnus 5183 X	38.5	33.4	37.1	31.9	27.9
Magnus 5183 X with dual plate option	48.0	33.4	48.0	31.9	27.9

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

Plate along press cylinder dimension x around press cylinder dimension	940 mm (37 in.) x 572 mm (22.5 in.)	1448 mm (57 in.) x 572 mm (22.5 in.)	1030 mm (40.5 in.) x 800 mm (31.5 in.)	1524 mm (60 in.) x 1143 mm (45 in.)	2070 mm (81.5 in.) x 1562 mm (61.5 in.)
Magnus 6383 S	13.4	9.5	12.5	9.1	7.0
Magnus 6383 F	21.4	16.2	20.2	15.4	12.3
Magnus 6383 V	26.6	20.9	25.3	20.0	16.3
Magnus 6383 V with dual plate option	37.5	37.1	30.3	22.3	16.3
Magnus 6383 X	36.1	30.7	34.8	29.5	25.3
Magnus 6383 X with dual plate option	47.1	47.8	45.0	29.5	25.3

Non-imaged areas:

- 6.1 mm (0.240 in.) wide strip along leading edge and a 7.6 mm (0.300 in.) wide 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.

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Media

Media type[4]:
- 830 nm Thermal IR-sensitive aluminum plates which conform to ISO 12635:1996 for plate dimensions

Media thickness:
- 0.20 mm to 0.40 mm (0.008 in. to 0.015 in.)

Supported media sizes:
- Leading edge registered single-loaded plates

Engine	Around drum diameter dimension Plate size range mm (in.)	Along drum diameter dimension Plate size range mm (in.)
4570	483 (19.0) – 1168 (46)	394 (15.5) – 1804 (71)
5183	483 (19.0) – 1296 (51)	394 (15.5) – 2083 (82)
5570	483 (19.0) – 1397 (55)	394 (15.5) – 1804 (71)
6383	483 (19.0) – 1600 (63)	394 (15.5) – 2083 (82)

- Leading edge registered 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 (19.0) – 1168 (46)	394 (15.5) – 864 (34)
5183	483 (19.0) – 1296 (51)	394 (15.5) – 1032 (40.6) [5]
5570	483 (19.0) – 1397 (55)	394 (15.5) – 864 (34)
6383	483 (19.0) – 1524 (60)	394 (15.5) – 1032 (40.6) [5]

- Side edge registered single-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	874 (34.4) – 1168 (46)	490 (19.3) – 1200 (47.2)
5183	874 (34.4) – 1296 (51)	490 (19.3) – 1200 (47.2)
5570	874 (34.4) – 1397 (55)	490 (19.3) – 1200 (47.2)
6383	874 (34.4) – 1600 (63)	490 (19.3) – 1200 (47.2)

- Side edge registered 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	874 (34.4) – 1168 (46)	490 (19.3) – 817 (32.2)
5183	874 (34.4) – 1296 (51)	490 (19.3) – 817 (32.2)
5570	874 (34.4) – 1397 (55)	490 (19.3) – 817 (32.2)
6383	874 (34.4) – 1524 (60)	490 (19.3) – 817 (32.2)

Environmental Conditions [6]

- 17^{O} to 30^{O}C (63^{O} to 86^{O}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 Amps, 50 or 60Hz, Single Phase.
- Less than 35 Amps 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 to 1000 mm (37.4 in. to 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 lbs) 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] Single plate rotation option available for plates up to 1600 mm x 1600 mm (63 in. x 63 in.) for plates at least 0.375 mm (0.015 in.) thick. For thinner plates, contact Kodak VLF Core Team for updated specifications.

[3] 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.

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

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

[6] 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.