MAGNUS VLF SPECIFICATIONS

Early Production 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 devices including those options.

Product Description

- The robust, highly productive Magnus™ VLF Semi-Automatic (SA) offers semi-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
- Semi-automatic plate loading and unloading
- Automatic registration with electronic confirmation
- Automatic clamping
- 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
- 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)
- Internal debris collection

Documentation Included:

- Magnus VLF - Operator Guide
- Visual Reference Guide.

Training Included:

- One day of onsite operator training

Options

Imaging Heads:

- F-speed and V-speed 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

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 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

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

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.

Media

Media type[2]:
- 830 nm Thermal IR-sensitive aluminum plates which 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:
- 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	394 (15.5) – 1168 (46)	394 (15.5) – 1804 (71)
5183	394 (15.5) – 1296 (51)	394 (15.5) – 2083 (82)
5570	394 (15.5) – 1397 (55)	394 (15.5) – 1804 (71)
6383	394 (15.5) – 1562 (61.5)	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	394 (15.5) – 1168 (46)	394 (15.5) – 864 (34)
5183	394 (15.5) – 1296 (51)	394 (15.5) – 1032 (40.6) [3]
5570	394 (15.5) – 1397 (55)	394 (15.5) – 864 (34)
6383	394 (15.5) – 1562 (61.5)	394 (15.5) – 1032 (40.6) Error Bookmark not defined.

- 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) – 1562 (61.5)	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) – 1562 (61.5)	490 (19.3) – 817 (32.2)

Performance

Environmental Conditions [4, 5]

- 17^{O} to 30^{O}C (63^{O} to 86^{O}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 Amps, 50 or 60Hz, Single Phase.
- Less than 35 Amps 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

Equipment Dimensions

- Width: 3225 mm (127.0”)
- Depth: 2340 mm (92.2”)
- Height: Table 830 mm (32.2”), top of hood 1195 mm (47.0”)
- 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 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] 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.

[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 mm (35.7 in.) - 1032 mm (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.