Kodak

# Magnus VLF APL Beta Specification For Cox Target Media

## Revision History

| Revision | Date | Author | Comments |
|---|---|---|---|
| 1.0 | 9/19/06 | Bruce Gordon | Created. |
| 2.0 | 29 Sep 2006 | A.Blignaut | Air specification corrected. |
| 3 | 05 Oct 2006 | Bruce Gordon | Added speed specifications, customized for Cox Target Media. |
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# 1. INTRODUCTION

This document describes the beta specifications for the two segment configuration of the 51 in. Magnus VLF Automatic Pallet Loader (APL).

Beta specifications are subject to change. All changes will be communicated according to the project communication plan.

Note also that this document does not describe the entire VLF Magnus imaging system; just the APL option (the base specifications for the existing Magnus VLF MCU are described in P/N 707-00177B).

# 2. MAGNUS VLF AUTOMATIC PALLET LOADER BETA SPECIFICATIONS (TWO SEGMENT CONFIGURATION)

**Product Description**
- The APL provides a bulk-loadable two segment autoloading system which feeds plates to the Magnus VLF imaging engine. Note that triple and single segment configurations are also available.

**Features and Benefits**
- High plate capacity
- Easy and efficient loading in bulk format
- High volume interleave sheet storage with easy removal
- High throughput architecture

**Prerequisites**
- Magnus VLF imaging engine with MCU or ContinuousLoad option

**Available Configurations**
- Support for either Left or Right side plate eject Magnus VLF

**Components**
- APL – two segment configuration
- Operator Guide, visual reference guide
- On-site operator training
- Support throughout the Beta period

**Media**

Media type[i]:
- Beta start: Kodak Sword Excel with interleave sheets.

Media size:
- Conforms to standard ISO 12635:1996 for plate dimensions
- Beta start: Only the following plate sizes will be qualified:

| X-speed imaging (pph) | Thickness mm (inch) | Around drum mm (inch) | Along drum mm (inch) | Registration mode | maging Engine Load Orientation |
|---|---|---|---|---|---|
| 27.4 | 0.3 (0.012) | 918 (36.1) | 1981 (78) | Leading edge | Single Landscape |

- Beta exit: Magnus APL will be qualified: 15.5 x 19 in. up to 63 x 83 in., thickness 0.008 to 0.015 in. (Note: This is a sub-set of the capabilities of the Magnus VLF which can support plates from 0.006 to 0.02 in.)

**Capacity**

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| Number of segments: | • Two |
| Segment capacity: | • Each segment will be: Height-limited to 9.6 in. plate stack (not including pallet), weight-limited to 2500 lb (**Note:** This will handle 600 x 0.012 in. plates at the above-specified sizes).<br>• Multi-segment configuration capacity specifications will vary depending on whether there are one or two pallets in each segment. |
| Interleave sheet capacity: | • 600 full-sized interleave sheets per pallet<br>• The APL shall not support media which lacks a slip sheet. |

**Performance**

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| Plate Delivery: | • The Magnus APL through put will be sufficient to meet or exceed the throughput of the Magnus VLF imaging engine equipped with the new TH3.<br>• If TH3 is not present, APL will match the existing Magnus VLF MCU throughput. |
| **Plate Packaging** | • Shall adhere to KPG pallet specification PKG-010 or equivalent<br>• Able to handle pallets “as received” (reasonable tolerance to dirt, splinters, dust, etc)<br>• No end user modifications of pallets required |
| **Interleave sheet handling** | • Stored on high capacity removable ground-level pallet<br>• Slip sheets are stored flat and with miniscule damage due to handling. |

**Plate handling**

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| Preparation: | • Offline removal of packaging prior to loading |
| Load time: | • Operator preparation time to prepare a pallet to be loaded into the APL shall be less than 10 minutes per pallet. This time shall be the time from which the pallet is within 6 feet of the machine, sitting on the floor, and still packaged as it would be from the factory (cardboard top on, strapping still in place).<br>• Downtime due to loading is less than 1% with 600 plates at 30 pph. |
| Loading operation: | • Manual pallet jack loading.<br>• Single person loading |
| Accuracy of load: | • Pallet position must be +-2 in. from side guide |
| ContinuousLoad Mode: | • Supported |
| **Environmental Conditions** | • With quantum imaging option: $17^{O}$ to $30^{O}$C ($63^{O}$ to $86^{O}$F) and 20% to 60% relative humidity, non-condensing. |
| **Electrical Requirements** | • The APL is powered from the Magnus VLF and the Magnus VLF spec remains unchanged. |
| **Compressed Air Requirements** | • Dry air 570 SLPM @ 620 kPa minimum to 830 kPa maximum **(**20 SCFM @ 90 psi to 120 psi). |

**Dimensions**

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| Width: | • **Including imaging engine and side ejector bridge**:<br>• One Segment not to exceed 8190 mm (323 in.)<br>• Two Segment not to exceed 10815 mm (426 in.)<br>• Three Segment not to exceed 13427 mm (529 in.) |

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| Depth: | • 51 in. maximum wrap APL not to exceed 3289 mm (129.5 in.)<br>• 63 in. maximum wrap APL not to exceed 3898 mm (153.5 in.) |
| Height: | • Not to exceed 1600 mm (63 in.) |
| Service Access: | • At least 914 mm (36 in.) all sides<br>• Minimum door size for installation 90 in. wide by 88 in. tall |
| Workspace: | • Estimate largest pallet width plus 900 mm (36 in.) on the load side |
| **Equipment Mass (Weight)** | • t.b.d. |

## 3. SPECIFICATION ACCEPTANCE

| **Sponsor/Owner** | **Company/Dept.** | **Signature** | *Date* |
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