Kodak

Magnus VLF

Output Devices

Model MTA

Safety Guide

English

761-00039A-EN Rev A

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What Is in This Document

This document contains the safety information that operators require to operate and maintain a Kodak® Magnus™ VLF Platesetter (model MTA), including regulatory compliance information. Where appropriate, it refers you to additional documentation about standards for electrical, mechanical, and laser safety. It also describes labels that are intended as safety reminders for Kodak service representatives.

This document includes the following sections:

- The *Installing, Operating, and Maintaining the Platesetter* section provides an overview of the tasks that operators can safely perform.
- The *Using Safety Messages to Avoid Hazardous Situations* section describes situations that can result in serious injury or death for the operator. This section also describes situations that can result in damage to the platesetter or its options.
- The *In Case of Fire* section provides information about what to do if there is a fire in the platesetter.
- The *Safety Features* section describes the various safety features built into the platesetter for your protection: the interlock system, the power/emergency stop switch, and the emergency stop button. It also describes the safety features on the Multi-Cassette Unit (MCU) option and the Automatic Pallet Loader (APL) option.
- *Appendix A, Labels* describes the labels that are located on the platesetter and its options to help you safely operate your imaging system.
- *Appendix B, Regulatory Compliance* lists the safety standards for which the platesetter was designed, tested, and evaluated for compliance.

For More Information

If you have other questions about the safe use of the platesetter, contact a service representative. The service representative may request the serial number, which you can find on the dataplate label at the back of the platesetter (for an example of this label, see page 17).

Visit http://graphics.kodak.com/ for documentation, training courses, downloads, and service and support contacts.

Installing, Operating, and Maintaining the Platesetter

Installation

A service representative must install the platesetter and perform the initial setup. Ensure that you are in compliance with the operating environment and connection requirements specified in the latest version of the site preparation guide for your platesetter:

- *Magnus VLF Semi-Automatic Site Preparation Guide (725-00032)*
- *Magnus VLF with ContinuousLoad Site Preparation Guide (725-00033)*
- *Magnus VLF with Multi-Cassette Unit Site Preparation Guide (725-00034)*
- *Magnus VLF with Automatic Pallet Loader Site Preparation Guide (719-00849)*

Operation

Before using the platesetter, you must read this guide and understand it. When using the platesetter, you must follow all of the safety messages and recommended procedures for device operation and troubleshooting. These safety messages and procedures are in help topics that are available through the **Help** menu in the Print Console software and in the visual reference guide for your platesetter:

- *Magnus VLF Semi-Automatic Visual Reference Guide (653-00738)*
- *Magnus VLF with ContinuousLoad Visual Reference Guide (653-00832)*
- *Magnus VLF with Multi-Cassette Unit Visual Reference Guide (653-00724)*
- *Magnus VLF with Automatic Pallet Loader Visual Reference Guide (653-01305)*
- *Hover Cart for Magnus VLF with Automatic Pallet Loader Visual Reference Guide (653-01386)*

This safety guide must be accessible to anyone who operates the platesetter.



WARNING: Failure to read, understand, and follow the information in this guide may result in the incorrect operation of this product and could create a dangerous situation. This could result in serious injury as well as damage to the platesetter.

Maintenance

The maintenance procedures that an operator can safely perform are described in help topics that are available through the **Help** menu in the Print Console software and in the visual reference guide for your platesetter. They include:

- Cleaning exterior surfaces
- Cleaning the edge detection strip
- Cleaning the plate roller
- Replacing the particulate filter for the compressed air supply on the platesetter and both compressed air supply filters on the APL
- Replacing the air intake filters for the power box, heat exchanger, and rear fans
- Replacing the debris removal filter

Only a service representative should perform other maintenance procedures and all service work.

Using Safety Messages to Avoid Hazardous Situations

Paragraphs labelled **DANGER**, **WARNING**, and **CAUTION** provide safety information. Disregarding danger, warning, and caution safety messages can result in personal injury or death to you or to others in the vicinity of the platesetter. Paragraphs labelled **NOTICE** alert you to the possibility of damage to the platesetter.

The dangers, warnings, cautions, and notices described in the next sections apply to the operation and maintenance of the platesetter and its options. There may also be dangers, warnings, cautions, and notices that apply to other prepress equipment connected to the platesetter. See the documentation provided by the manufacturer of that equipment for relevant safety information.

Recognizing Different Levels of Hazard



DANGER: The use of the safety alert symbol with the signal word "danger" indicates an imminently hazardous situation, which, if not avoided, will result in serious injury or death. This does not alert you to potential damage to the output device unless personal injury risks are associated with the accident.



WARNING: The use of the safety alert symbol with the signal word "warning" indicates a potentially hazardous situation, which, if not avoided, could result in serious injury or death. This does not alert you to potential damage to the output device unless personal injury risks are associated with the accident.



CAUTION: The use of the safety alert symbol with the signal word "caution" indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury. This may also alert you to unsafe practices. This does not alert you to potential damage to the output device unless personal injury risks are associated with the accident.

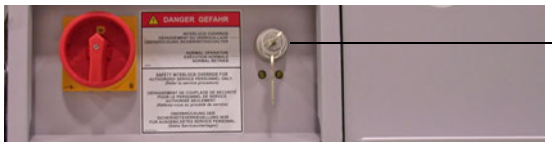
NOTICE: The use of the signal word "notice" indicates a situation which, if not avoided, could result in damage to the output device.

Danger Safety Messages for All Platesetters

DANGER: Do not tamper with the access panel interlock system. Never attempt to operate the output device with any of the access panels open, and never attempt to open or remove access panels while the output device is imaging plates. Tampering with the interlock system can result in serious injury from visible and invisible high-powered laser radiation and/or moving mechanical parts.

DANGER: Do not perform unauthorized repairs or make modifications. Unauthorized panel removal, repairs, or changes made to the output device can expose you to visible and invisible high-powered laser radiation, moving mechanical parts, and/or electrical shock, which will result in serious injury or death.

DANGER: The Safety Interlock Override (SIO) switch is for use only by a service representative. Unauthorized use can expose you to serious danger from visible and invisible high-powered laser radiation, moving mechanical parts, and/or electrical shock, which could result in serious injury or death.



Safety Interlock Override (SIO) switch

DANGER: The service access panels can be removed only by a service representative. Unauthorized panel removal can expose you to serious danger from visible and invisible high-powered laser radiation and/or moving mechanical parts, which could result in serious injury or death.

DANGER: Do not remove any covers or panels bearing the laser noninterlocked panel label (see below). These areas can expose you to serious danger from visible and invisible high-powered laser radiation and/or moving mechanical parts, which could result in serious injury or death.



DANGER: Do not remove any covers bearing the hazardous voltage label (see below). These areas contain high-voltage components that can cause severe electrical shock, which could result in serious injury or death.



Warning Safety Messages for All Platesetters



WARNING: When opening access panels, keep hands away from moving parts until the rotating drum comes to a complete stop. Mechanical hazards associated with the output device can result in serious injury and/or damage to your output device.



WARNING: Particulate emissions that are not properly filtered can endanger your health. For a list of airborne emissions that pertain to the media you are using, see the manufacturer's Material Safety Data Sheet (MSDS) or contact the manufacturer or distributor directly.



WARNING: Do not use a debris removal particulate filter with a damaged gasket and do not attempt to image printing media with a depleted filter. Failure to heed these warnings could result in exposure to airborne emissions in excess of applicable regulatory limits and in possible discomfort, illness, injury, and/or disability.



WARNING: Use only qualified media. Using unqualified media may expose you to noxious gaseous emissions in excess of applicable regulatory limits. This may result in discomfort, illness, injury, and/or disability.



WARNING: Do not let water or other liquids run freely into the output device. This can result in serious injury from electrical shock as well as damage to your output device.



WARNING: Do not use chemical solvents or aggressive cleaning solutions for cleaning the compressed air supply particulate filter bowl. This can cause cracking or crazing damage to the plastic parts. When damaged plastic parts are exposed to high air pressure, these parts may explode and cause serious injury and/or damage to the output device.



WARNING: Be careful handling the magnetic clamps if you have a pacemaker. Operators with implanted cardiac pacemakers should ensure that magnetic clamps are kept more than 7 cm (2.75 in.) away from their pacemaker. If you have additional concerns, consult your physician and/or the manufacturer of your implant.



WARNING: Turn off the compressed air supply when working on the air supply filters. Failure to turn off the compressed air supply before inspecting or replacing a compressed air supply filter will result in the following:

- High-pressure air to be present in the filter elements and bowl, making disassembly difficult and dangerous. This could result in possible serious injury to you or damage to the output device from flying parts
- A very loud noise that could damage your hearing

Caution Safety Messages for All Platesetters



CAUTION: Wear protective gloves when handling plates. Plate edges can be sharp. Failure to wear protective gloves can result in injury.



CAUTION: Wear protective gloves when handling the magnetic clamps. Otherwise, you may pinch your fingers between the trailing-edge clamps and the drum.

Notices for All Platesetters

NOTICE: When placing or sliding a trailing-edge clamp on the drum, ensure that the steel tabs on the clamp are centered on the steel straps on the drum. The clamp tabs can damage the drum surface if the tabs are not aligned properly.

NOTICE: If you are not using a Multi-Cassette Unit (MCU) or Automatic Pallet Loader (APL) to load plates into the platesetter, remove all slip sheets and packaging material from both the back and front of plates before you image them in the platesetter. Otherwise, the thermal laser could ignite the paper, causing a fire in the output device. (Slip sheets are automatically removed in platesetters with the MCU or APL options.)

Warning and Caution Safety Messages for the APL Hover Cart Option

WARNING: You must connect the Hover Cart to the compressed air supply in your facility before use and disconnect it after use. If compressed air is not handled properly, it can be dangerous. Close the valve on the air supply hose before you disconnect the air supply. If you do not close the valve before disconnecting the air supply, the hose may act as a whip if the quick-connect fitting fails, resulting in possible serious injury to you and others in the vicinity of the APL and/or damage to the output device.

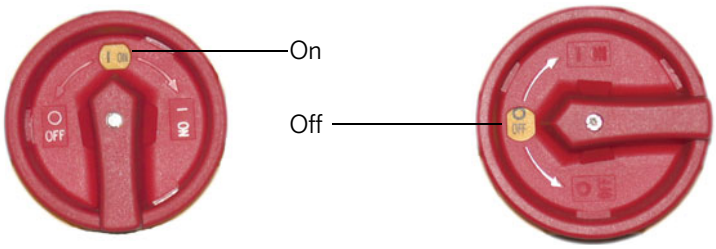
WARNING: Be careful when you clear debris off the floor near the Hover Cart or pallet spacer. Otherwise, you may severely damage your fingers in the gap between the Hover Cart and the floor if the Hover Cart is inadvertently lowered.

WARNING: The first time that you use the Hover Cart, experiment carefully with the amount of exertion required to overcome inertia (to get the Hover Cart into motion) and to stop the momentum once it is moving. Depending on its load, the Hover Cart may have sufficient mass in motion to knock down and seriously injure anyone in its path. Do not allow anyone to stand in the path of the Hover Cart when it is moving and do not pull the Hover Cart to make it start moving (thus putting yourself in its path).

In Case of Fire

If there is a fire in the platesetter, immediately turn off the rotary Power/Emergency Stop switch.

NOTICE: Remove all slip sheets and packaging material from both the back and front of plates before you image them in the platesetter. Otherwise, the thermal laser could ignite the paper, causing a fire in the output device.



Safety Features

All platesetters have these safety features:

- An interlock system
- A Power/Emergency Stop switch
- Emergency Stop buttons

Magnus VLF platesetters with the APL option have all the platesetter safety features plus these additional safety features on the APL component:

- Cable-activated emergency stop device (pull cords)
- Exit hatches
- Internal illumination

The Interlock System on All Platesetters

All platesetters are equipped with an interlock system. An interlock system prevents the activation of a piece of equipment when a protective door is open or some other hazard exists. In platesetters, if you open or remove an interlocked door or panel while the platesetter is operating, the platesetter:

- Removes power from the laser, to protect you against injury from visible and invisible high-powered laser radiation
- Halts all mechanical activity, to protect you against injury from moving mechanical parts

Visible and Invisible High-Powered Laser Radiation

Laser emissions from an exposure head are invisible to the naked eye and are very dangerous if they contact skin or eyes. If you open or remove an access panel while the platesetter is operating, the interlock system removes power from the laser.



DANGER: Never attempt to operate the output device with any of the access panels open, and never attempt to open or remove access panels while the output device is imaging plates. Tampering with the interlock system can result in serious injury or death from visible and invisible high-powered laser radiation and/or moving mechanical parts.

There are labels on all the access panels that have interlock switches to protect you against visible and invisible high-powered laser radiation. See *Laser Interlocked Panel Label* on page 19.

Moving Mechanical Parts

The platesetter has a drum that revolves inside the output device. The plates are loaded, wrapped onto the drum, imaged, and unloaded.

The drum normally revolves up to 400 times per minute. If an object hits the revolving drum, the object may become lodged inside the output device and cause damage, including damage to the safety system, thermal imaging head, or protective enclosure. If you open or remove an access panel while the platesetter is operating, the interlock system halts all mechanical activity.

To access the drum for regular preventative maintenance or troubleshooting, you must open the rear hood of the platesetter. This hood is secured with a solenoid lock (see *Solenoid Lock Label* on page 22).

There are two ways to unlock the rear hood:

- Click **Unlock** in the Print Console device control software. If any jobs are being imaged when you click **Unlock**, Print Console displays a message asking if you want to cancel them before it sends the unlock command. If the drum is in motion when you click **Unlock**, the solenoid lock normally does not release until the drum comes to a complete standstill. If you see *any* mechanical movement when you open the rear hood, the platesetter must be repaired.
- Turn the power off and wait five seconds before opening the rear hood. The solenoid lock releases as soon as the power is disconnected. If the drum is in motion when you turn off the power, it normally stops revolving within five seconds of the lock being released. If you see mechanical movement after five seconds has elapsed since turning off the power to the platesetter, the platesetter must be repaired.

In either case, if you see mechanical movement that indicates the output device requires repair, do the following actions:

1. Keep your hands away from the moving parts.
2. Turn the rotary Power/Emergency Stop switch to the **Off** position (see page 10).
3. Close the rear hood.
4. Contact your service representative as soon as possible.

When the lock is released, confirm that the drum has stopped revolving before you start your maintenance or troubleshooting procedure (see *Keep Hands Out Label* on page 22).

Because exposure to a revolving drum can result in serious injury to the operator, service representative, or others in the vicinity of the output device, make sure that you comply with these drum safety messages:



DANGER: Do not tamper with the access panel interlock system. Never attempt to operate the output device with any of the access panels open, and never attempt to open or remove access panels while the output device is imaging plates. Tampering with the interlock system can result in serious injury from visible and invisible high-powered laser radiation and/or moving mechanical parts.



WARNING: When opening access panels, keep hands away from moving parts until the revolving drum comes to a complete stop. Mechanical hazards associated with the output device can result in serious injury.

NOTICE: Do not leave any object, tool, or part inside or on the output device enclosure. If an object becomes lodged in the output device, it may damage the output device.

Power/Emergency Stop Switches on All Platesetters

The Power/Emergency Stop switch disconnects power to the platesetter. The switch is located on the outside of the output device.

Note: If the Power/Emergency Stop switch is red with a yellow background, it disconnects power to the entire platesetter system. If the switch is black, it disconnects power only to the device on which it is located. For example, the black power switch on the APL option (see Figure 6 on page 13) disconnects power only to the APL.

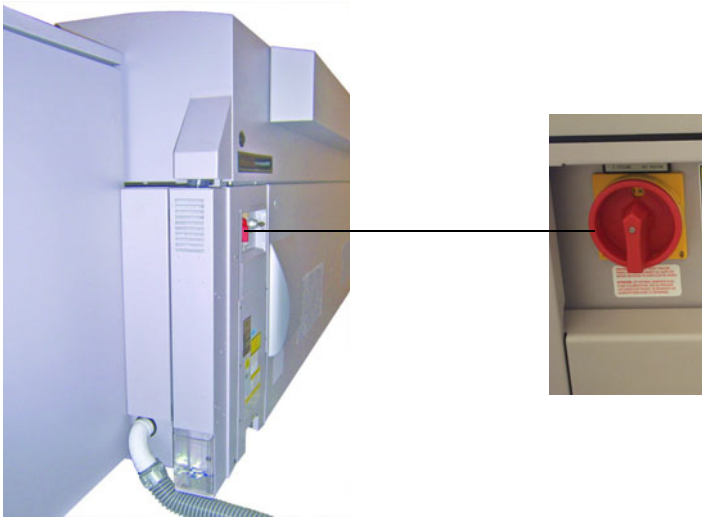


Figure 1: Power/Emergency Stop switch on Magnus VLF platesetters

Regular Operation

When you are instructed to turn off the power to the platesetter for a maintenance procedure, turn the Power/Emergency Stop switch counterclockwise to the **Off** position. You can secure the switch in the **Off** position with a padlock to prevent another person from turning on the device while you are performing troubleshooting or maintenance procedures. See Figure 2.

Emergency Shutdown

If the Emergency Stop button is not accessible, turn the Power/Emergency Stop switch counterclockwise to the **Off** position. The switch disconnects power to the platesetter, which means that you cannot access information about the status of the output device.

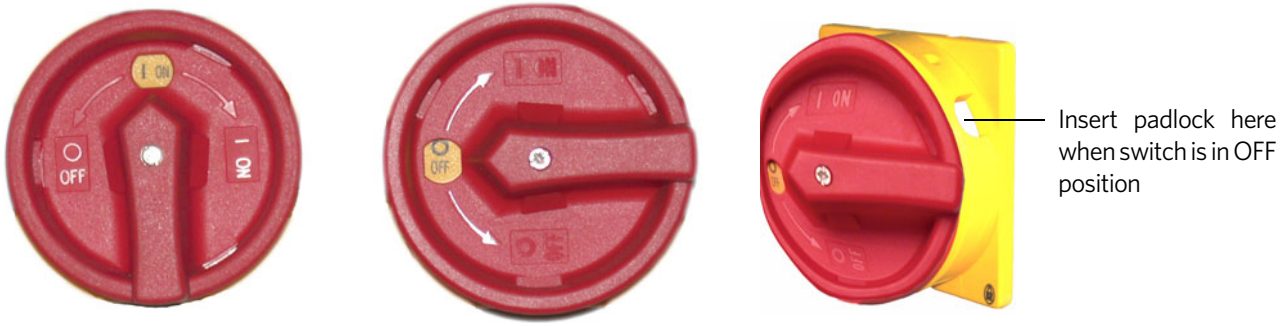


Figure 2: Turn the switch counterclockwise to turn off the power

Emergency Stop Buttons on All Platesetters

The Emergency Stop button stops laser operation and mechanical movement, but the power remains connected. You can continue to access information about the status of the platesetter. Use this button to stop laser operation and mechanical movement in an emergency situation. Buttons are located inside the output device and in the exterior locations shown next.

If you press this button, you must reset it before the output device can return to normal operation. To reset the button, rotate it 90° clockwise and reset the platesetter.

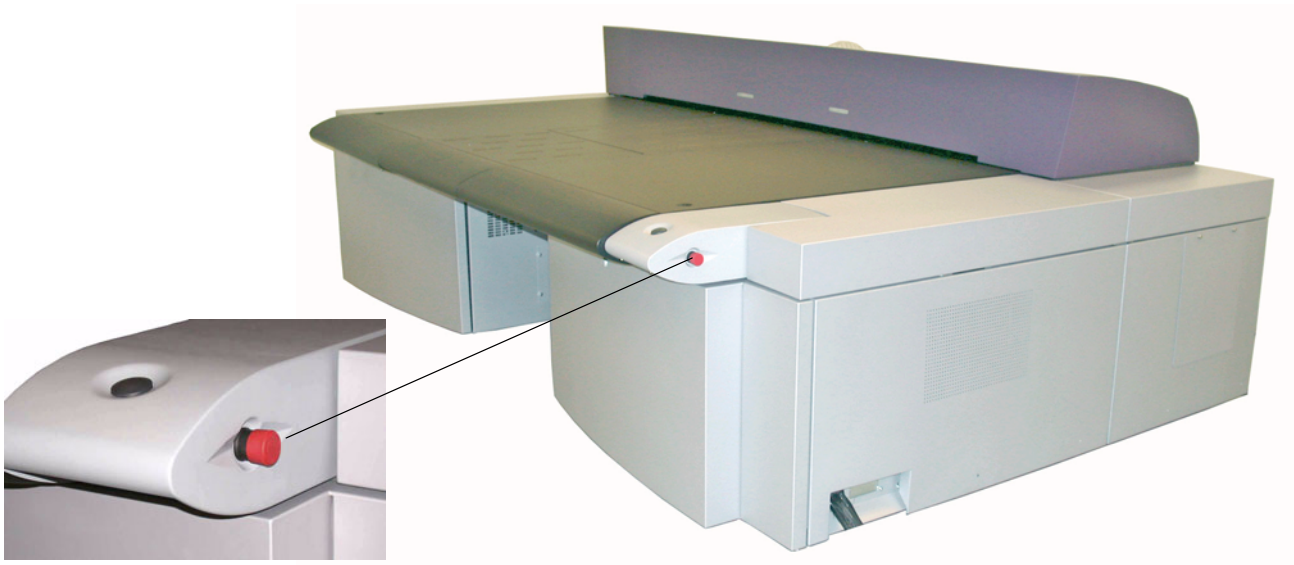


Figure 3: Emergency Stop button on the Magnus VLF



Figure 4: Emergency Stop buttons on the Magnus VLF with ContinuousLoad

Safety Features on Platesetters With the MCU Option

Additional Emergency Stop Button on the MCU

In addition to the two Emergency Stop buttons on either side of the hood on the platesetter, there is another Emergency Stop button on the MCU component.

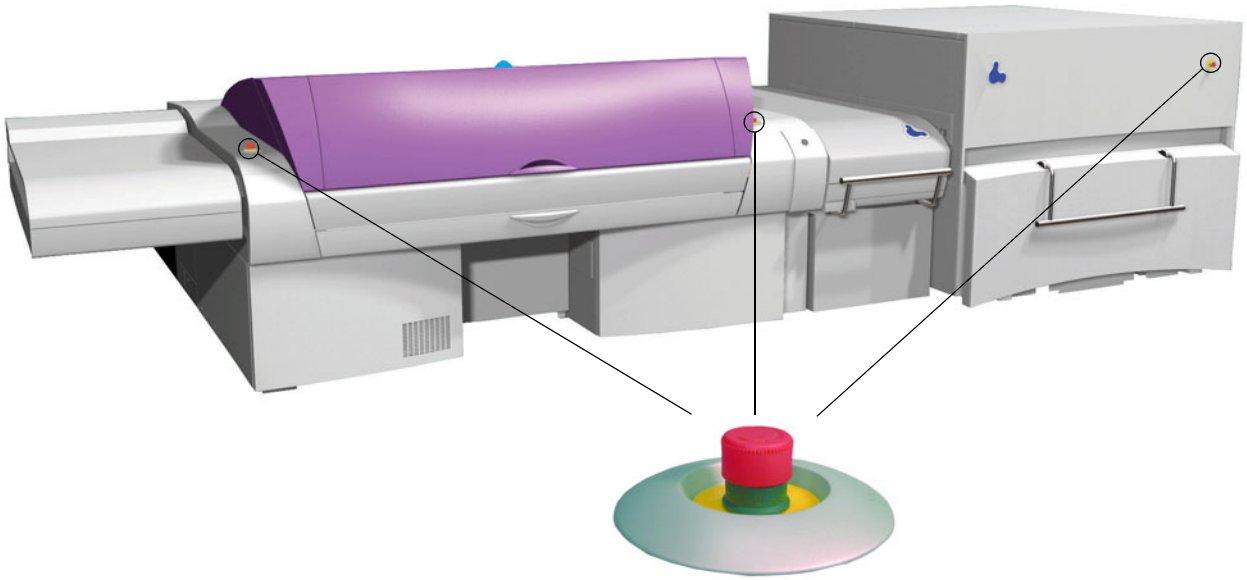


Figure 5: Emergency Stop buttons on the Magnus VLF with MCU

Cautionary Labels

When you pull the MCU cart out of the MCU for loading, do not crawl underneath the cassette. If you do, the cassette could become dislodged and fall on top of you. There are labels on the top of each rail to remind you not to crawl underneath the cassette when the MCU is being loaded. See *Cautions When MCU Cassette Unloaded* on page 32.

Safety Features on Platesetters With the APL Option

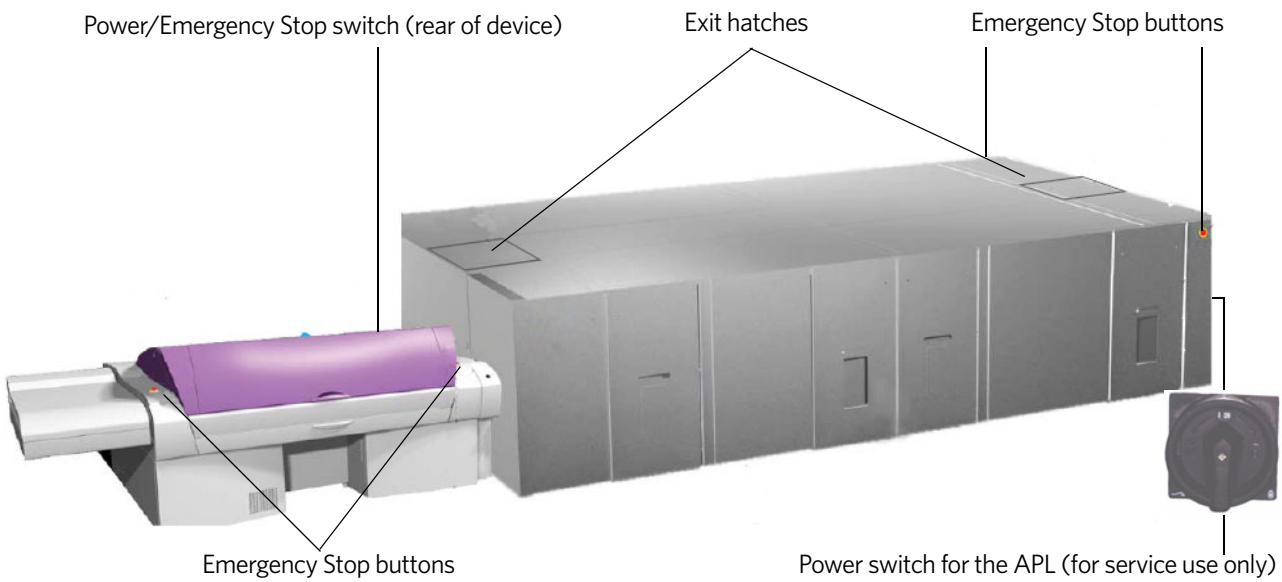


Figure 6: Safety features on the Magnus VLF with APL

Additional Power Switch on the APL

In addition to the Power/Emergency Stop switch on the platesetter, there is another power switch on the APL component, at the end farthest from the Magnus VLF platesetter. This disconnects power to the APL component only (unlike the Power/Emergency Stop switch on the platesetter, which provides power to both the Magnus VLF and the APL). This black power switch should be used only by a service representative. If you must turn off power to the APL, use the Power/Emergency Stop switch on the platesetter.

Additional Emergency Stop Buttons on the APL

In addition to the two Emergency Stop buttons on either side of the hood on the platesetter, there are two Emergency Stop buttons on the APL component, at the end farthest from the Magnus VLF platesetter.

Pushing either of these Emergency Stop buttons stops mechanical movement in both the APL and the Magnus VLF platesetter, and also stops laser operation in the platesetter.

Cable-activated Emergency Stop Device

The APL component has two red cable-activated emergency stop devices that you can pull if you become trapped inside the APL. These pull cords are located inside the front and rear doors and span the length of the APL component.



Pulling a cable-activated emergency stop device stops APL operation and activates the internal lights. You can then make your way to an exit hatch on the roof at either end of the APL. Pulling a cable-activated emergency stop device also stops operation of the Magnus VLF platesetter.

After you pull a cable-activated emergency stop device, the APL cannot resume operation until you reset it.

To reset a cable-activated emergency stop device:

1. Locate the cable-activated emergency stop device reset switch behind the APL panel farthest away from the Magnus VLF platesetter.

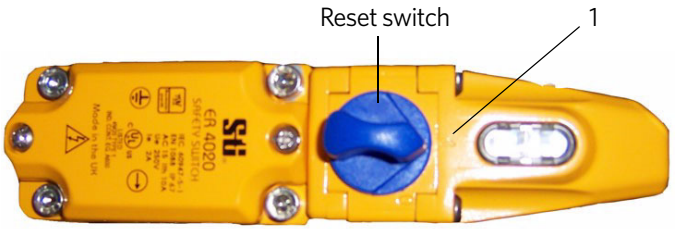


Figure 7: Emergency Stop pull cord reset switch

2. Pull the blue reset switch back to **1**.

Exit Hatches

The APL has two exit hatches located on the roof at either end of the APL (see Figure 6 on page 13). If you become trapped inside the APL, you can exit the device through the hatches. The exit hatches do not have mechanical locks, so that you can escape quickly by pushing them open. Before making your way to an exit hatch, pull the cable-activated emergency stop device to stop operation on the APL and the Magnus VLF platesetter.

The exit hatches are part of the safety interlock system. The APL cannot operate unless both the exit hatches are fully closed. After you exit the APL, it will not resume operation until you close the exit hatch.

Internal Lights

The APL has internal lights that automatically illuminate when any emergency stop mechanism is activated.

A

Labels

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Overview

This appendix contains information about the labels that are located on the:

- Platesetter (next section)
- Thermal imaging head (see page 26)
- Debris removal component (see page 28)
- Options on the platesetter, such as the MCU and APL (see page 31)
- Hover Cart option for the APL (see page 36)

These labels are intended to assist you in safely operating your output device. They include information about:

- Device identification
- Compliance with various regulatory standards
- Laser safety
- Mechanical, electrical, and general safety

All the labels described in this appendix are in areas where they can be seen by platesetter operators. The labels that are intended primarily for the safety of service representatives are not included, except for those that are located in areas where operators can also see them.

Description of Labels on the Platesetter

Type of Label	Label Name	Illustration	Location
Identification and regulatory compliance	Dataplate	page 17	page 38
	Class 1 laser product	page 18	page 38
	Center for Devices and Radiological Health (CDRH) compliance statement	page 18	page 38
	Federal Communications Commission (FCC) compliance statement	page 18	page 38
Laser safety labels on the access panels	Laser interlocked panel	page 19	page 38 page 39
	Laser noninterlocked panel	page 19	page 40

Type of Label	Label Name	Illustration	Location
Electrical, mechanical, and general safety	High touch current	page 20	page 38
	Hazardous voltage	page 20	page 38 page 39
	Fuse replacement	page 21	
	Outlet for heat exchanger or chiller	page 21	on wall
	Outlet for debris removal component	page 21	on wall
	Outlet for APL/MCU	page 22	on wall
	Two power supply cords (warning for service)	page 22	page 38
	Solenoid lock	page 22	page 38
	Keep hands out until drum has stopped rotating warning	page 22	page 39
	Safety interlock override (danger for service representatives)	page 23	page 38
	Beware of moving parts when interlock deliberately overridden (warning for service)	page 24	page 39
	Backbone release switch (warning for service)	page 25	page 39
	Maximum PSI/BAR	page 25	page 38
	Pacemaker warning label	page 25	page 39

Identification and Regulatory Compliance Labels

The identification and regulatory compliance labels are located on the power entry box below the Power/Emergency Stop switch.

Dataplate Label

This label is located on the power entry panel, below the Power/Emergency Stop switch. See *Labels on the exterior panels at the rear of the Magnus VLF* on page 38. When you call a service representative, you may be asked to find the serial number for your output device on this label.

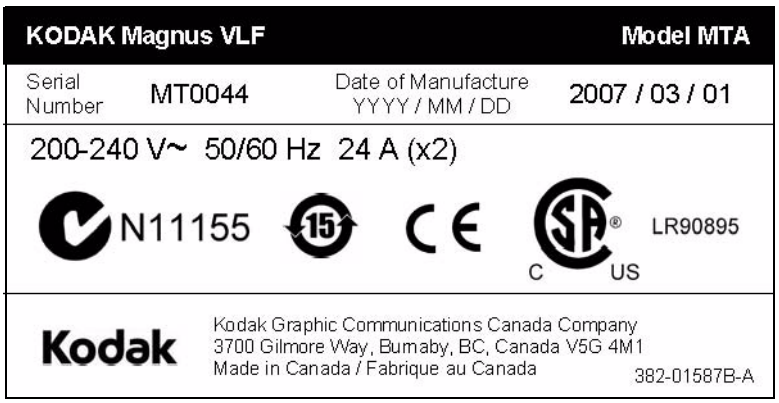


Figure 8: Dataplate label for Magnus VLF platesetters

Class 1 Laser Product Label

This label is located on the power entry panel, below the Power/Emergency Stop switch. See *Labels on the exterior panels at the rear of the Magnus VLF* on page 38.



Figure 9: Class 1 laser product label

Center for Devices and Radiological Health (CDRH) Compliance Statement Label

This label is located on the power entry panel, below the Power/Emergency Stop switch. See *Labels on the exterior panels at the rear of the Magnus VLF* on page 38.

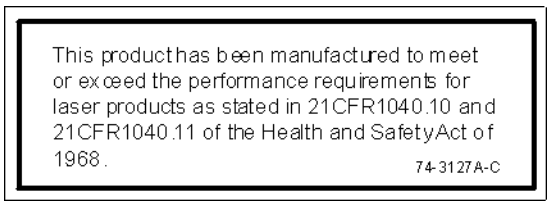


Figure 10: CDRH compliance statement label

Federal Communications Commission (FCC) Compliance Statement Label

This label is located on the power entry panel, below the Power/Emergency Stop switch. See *Labels on the exterior panels at the rear of the Magnus VLF* on page 38.

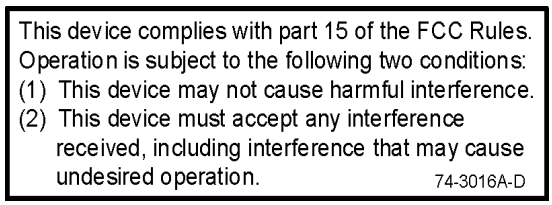


Figure 11: FCC compliance statement label

Laser Safety Labels on the Access Panels

Laser Interlocked Panel Label

These labels are located beside the safety interlock switches inside the interlocked protective housing. See *Labels on interior components that can be seen when the Magnus VLF rear hood and panels are open* on page 39.

DANGER: Do not tamper with the access panel interlock system. (See *The Interlock System on All Platesetters* on page 8.) Tampering with the interlock system can result in serious injury from visible and invisible high-powered laser radiation and/or moving mechanical parts.



Figure 12: Laser interlocked panel label

Laser Noninterlocked Panel Label

The laser noninterlocked panel label is located on the tool-secured service access covers or panels that provide laser safety. See *Location of laser noninterlocked panel labels on the Magnus VLF* on page 40.

DANGER: The service access covers or panels can be removed only by a service representative. Do not remove covers or panels bearing this label. Accessing the areas protected by these covers or panels can expose you to serious injury from visible and invisible high-powered laser radiation and/or moving mechanical parts.



Figure 13: Laser noninterlocked panel danger label

Electrical, Mechanical, and General Safety Labels

High Touch Current Label

This label is located on the power entry panel below the Power/Emergency Stop switch. See *Labels on the exterior panels at the rear of the Magnus VLF* on page 38.



Figure 14: High touch current label

Hazardous Voltage Label

This label is found in these locations:

- This label is located on the power entry panel below the Power/Emergency Stop switch. See *Labels on the exterior panels at the rear of the Magnus VLF* on page 38.
- In the fan box, on the service access cover for the junction box. See *Labels on the debris removal unit and fan* on page 40.
- In the heat exchanger unit, on the service access cover for the junction box. See *Labels on the debris removal unit and fan* on page 40.

If the platesetter is equipped with the MCU option, it also appears on the MCU component. See *Labels on the MCU* on page 42.



DANGER: Service access covers can be removed only by an authorized service representative. Do not remove covers bearing this label as these areas contain high-voltage components that can cause severe electrical shock, which could result in serious injury or death.



Figure 15: Hazardous voltage label

Fuse Replacement Label

This label is located adjacent to the fuses in the power box that operators can replace under the direction of the Kodak Response Center. If the platesetter is equipped with the MCU option, it also appears on the MCU component. This label is not in an area typically accessed by operators.

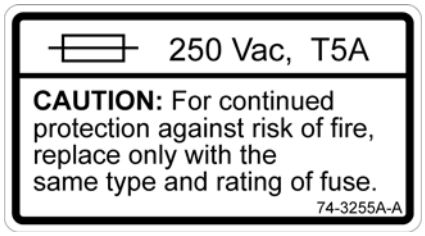


Figure 16: Fuse replacement label

Label on Outlet for Heat Exchanger/Chiller

This label is located next to the electrical outlet dedicated for the chiller or heat exchanger.

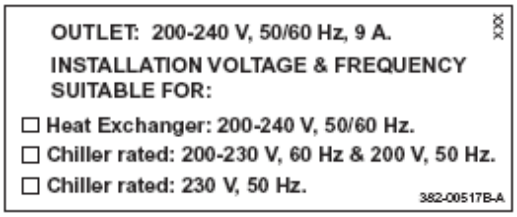


Figure 17: Heat exchanger/chiller electrical rating

Label on Outlet for Debris Removal Component

One of these labels is located next to the AC outlet dedicated for the debris removal component in your platesetter system.



Figure 18: Label that identifies outlet for the MDRC component

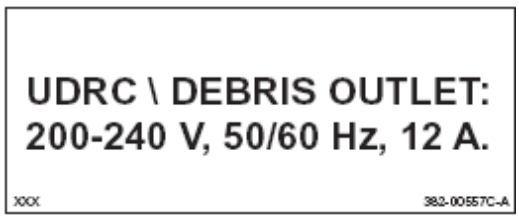


Figure 19: Label that identifies outlet for the debris unit component

Label on Outlet for APL or MCU Option

This label is located next to the AC outlet for the APL or MCU option.

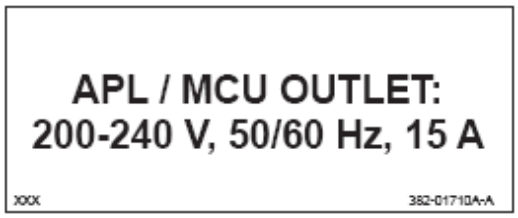


Figure 20: Label that identifies outlet for APL or MCU option

Two Power Supply Cords Label

This label is located on the power entry panel below the Power/Emergency Stop switch. See *Labels on the exterior panels at the rear of the Magnus VLF* on page 38.

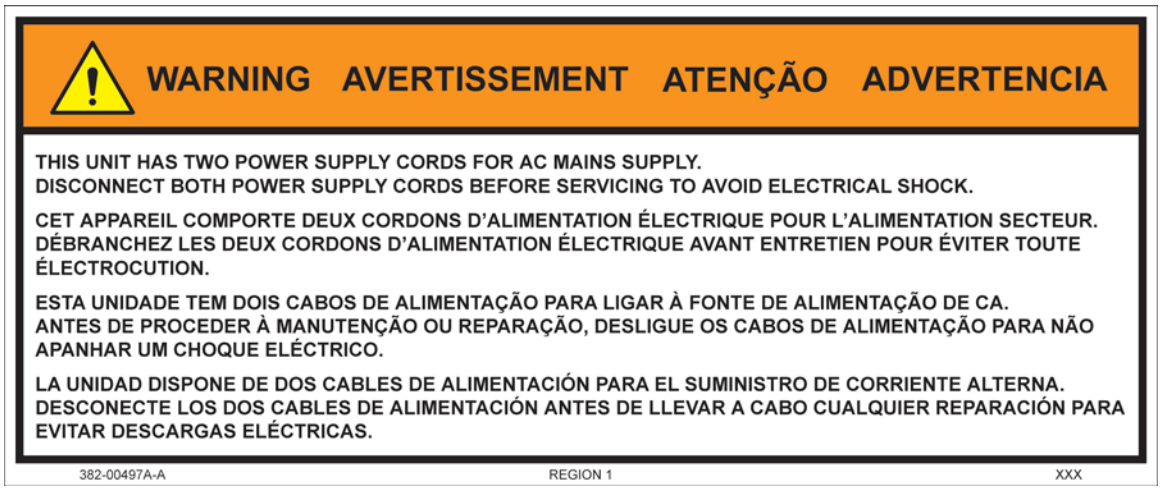


Figure 21: Two power supply cords label

Solenoid Lock Label

This label is located beside each latch on panels that have solenoid locks. See *Labels on the exterior panels at the rear of the Magnus VLF* on page 38.

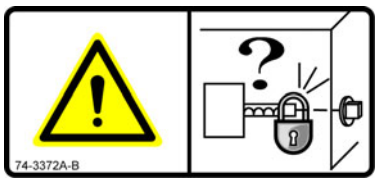


Figure 22: Solenoid lock label

Keep Hands Out Label

This label is located on each end of the tilt bar that is located behind the rear panels near the drum. See *Labels on interior components that can be seen when the Magnus VLF rear hood and panels are open* on page 39.



Figure 23: Keep hands out label

Safety Interlock Override Label (for Service Personnel)

This label is located beside the safety interlock override switch on the power box panel. See *Labels on the exterior panels at the rear of the Magnus VLF* on page 38. If the platesetter is equipped with the MCU option, it also appears on the MCU component. See *Labels on the MCU* on page 42.

DANGER: The service safety interlock override key switch is for use only by an authorized service representative. Unauthorized use can expose you to serious danger from visible and invisible high-powered laser radiation, moving mechanical parts, and/or electrical shock, which could result in serious injury or death.

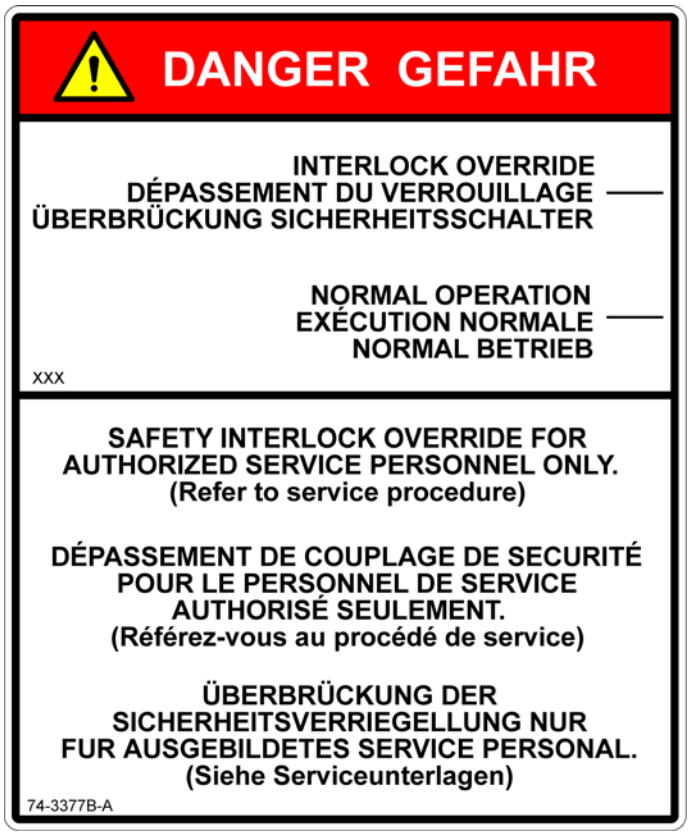


Figure 24: Safety interlock override label

Beware of Moving Parts When Interlock Deliberately Overridden Label (for Service Personnel)

This label is located behind the front panel on both ends of the leading-edge clamp. See *Labels on interior components that can be seen when the Magnus VLF rear hood and panels are open* on page 39. If the platesetter is equipped with the MCU option, it also appears on the MCU component. See *Labels on the MCU* on page 42.



Figure 25: Beware of moving parts when interlock deliberately overridden label

Backbone Release Switch Label (for Service Personnel)

The backbone release switch is for service use only, but is in an area where operators can see it. See *Labels on interior components that can be seen when the Magnus VLF rear hood and panels are open* on page 39. It is located next to each of the two backbone release switches mounted on the back of the rear hood or on the punch assembly.

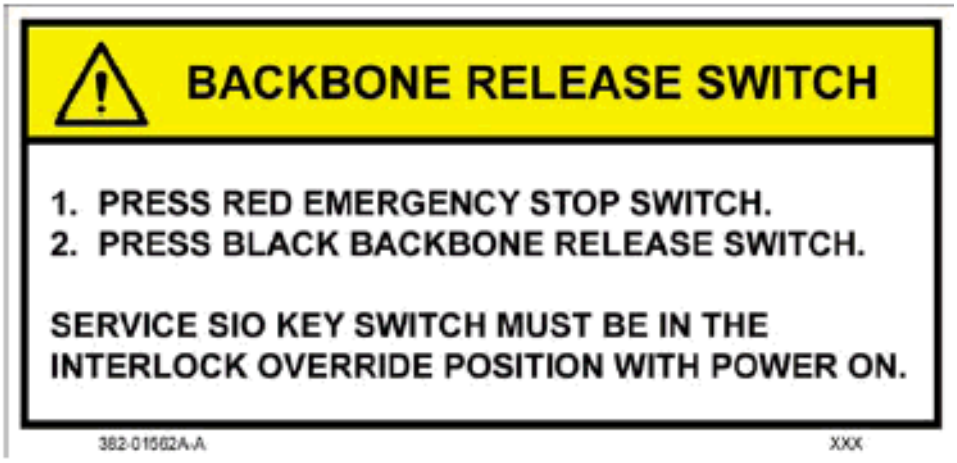


Figure 26: Backbone release switch label

Maximum PSI/BAR Label

This label is located near the compressed air inlet connector. See *Labels on the exterior panels at the rear of the Magnus VLF* on page 38. If the platesetter has the APL option, this label is also found on the APL. See *Labels on the APL* on page 42. If the APL includes the Hover Cart option, the label is also found on the Hover Cart. See *Labels on the Hover Cart* on page 43.

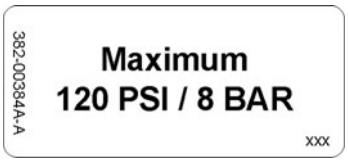


Figure 27: Maximum PSI/BAR label

Pacemaker Warning Label

This label is located on the magnetic clamps. See *Labels on interior components that can be seen when the Magnus VLF rear hood and panels are open* on page 39.

CAUTION: Operators with implanted cardiac pacemakers should keep magnetic clamps more than 7 cm (2.75 in.) away from their pacemaker. If you have additional concerns, consult your physician and/or the manufacturer of your implant.



Figure 28: Pacemaker warning label

Description of Labels on the Thermal Imaging Head

Type of Label	Label Name	Illustration	Location
Identification and regulatory compliance	Dataplate thermal 2 head	page 26	page 41
	Dataplate thermal 3 head	page 26	
Laser safety	Exposure head aperture	page 27	
	Laser hazard/Class 4 laser product/radiation output	page 27	

Identification and Regulatory Compliance Labels

Dataplate Label

Identification and regulatory compliance labels for the thermal exposure heads are located on the rear panel of the exposure head enclosure. The dataplate label in this location may be any of the following examples, depending on the model. See *Location of laser safety labels on the thermal imaging head* on page 41.

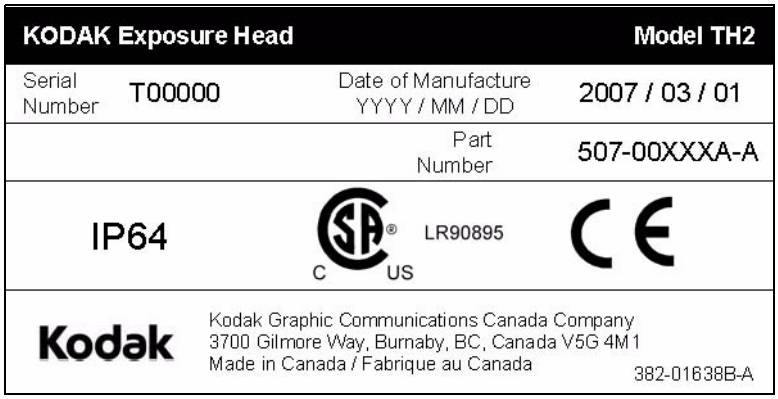


Figure 29: Dataplate label for thermal imaging head model TH2

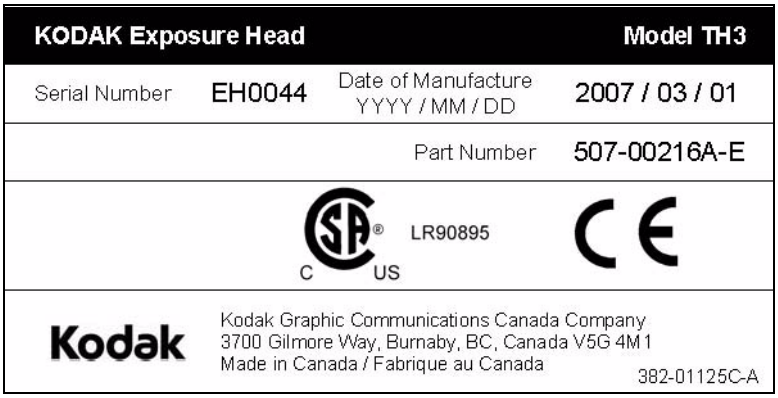


Figure 30: Dataplate label for thermal imaging head model TH3

Imaging Head Aperture Label

This label is located on top of the thermal imaging head protective housing, pointing to the shutter and aperture at the front of the thermal imaging head protective housing. See *Location of laser safety labels on the thermal imaging head* on page 41.



Figure 31: Exposure head aperture label

Laser Hazard/Class 4 Laser Product Label/Radiation Output

The laser hazard/Class 4 laser product /radiation output safety label is located on the back of the thermal imaging head protective housing. See *Location of laser safety labels on the thermal imaging head* on page 41. There is one dataplate label in this location. It will be one of the following examples, depending on the model.



Figure 32: Laser hazard/Class 4 laser product/Radiation output: thermal 1.7 head or thermal 2 head



Figure 33: Laser hazard/Class 4 laser product/Radiation output: thermal 3 head

Description of Labels on the Debris Removal Component

All Magnus VLF platesetters require a debris removal component. Debris removal functionality may be provided by an MDRC option or Debris Unit option.

Type of Label	Label Name	Illustration	Location
Identification, configuration, and regulatory compliance	Dataplate	page 28	page 40
	External venting option	page 28	
	BP configuration (external venting option)	page 29	
Airborne emissions	Particulate airborne emissions	page 29	
	Gaseous and particulate airborne emissions	page 30	

Identification, Configuration, and Regulatory Compliance Labels

Dataplate Label

This label is located on the front of the debris removal canister. See *Labels on the debris removal unit and fan* on page 40.

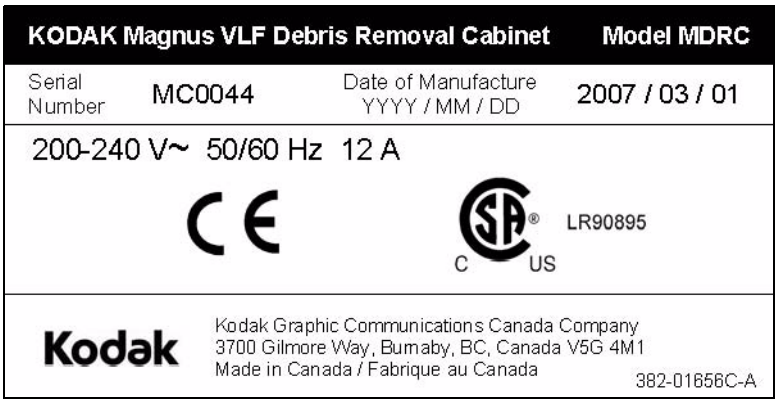


Figure 34: Dataplate label for Debris Removal Cabinet Model MDRC

External Venting Option Label

The External Venting Option label is located on the rear panel of the external venting option unit. If your debris removal unit has this label, it also has the Gaseous and Particulate Airborne Emissions label (see page 31) and the BP Configuration label (see page 29).

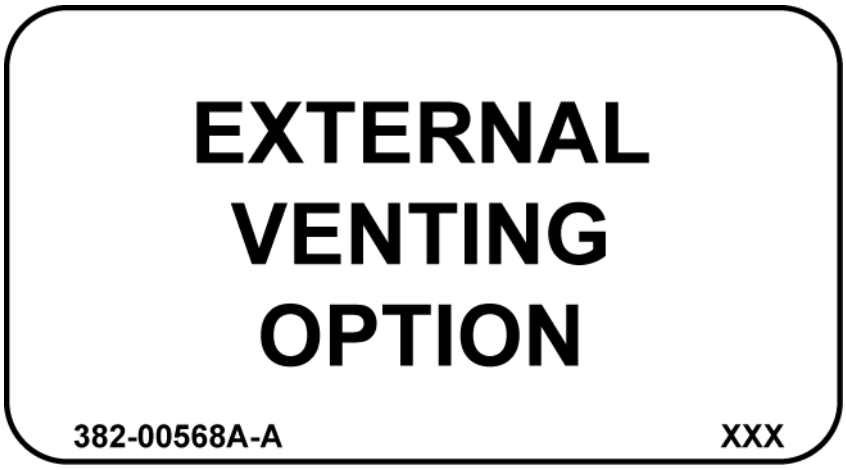


Figure 35: External Venting Option label

Configuration Labels

The configuration label is located on the front of the debris removal canister. See *Labels on the debris removal unit and fan* on page 40.

BP Configuration Label

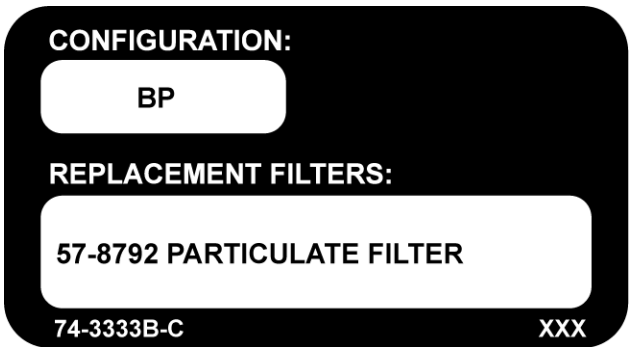


Figure 36: BP Configuration label

Airborne Emissions Labels

Particulate Airborne Emissions Label

The Particulate Airborne Emissions label (if applicable) warns you of the possible release of airborne emissions when imaging certain types of printing media.

Important: Do not attempt to use printing media that have not been qualified by Kodak.

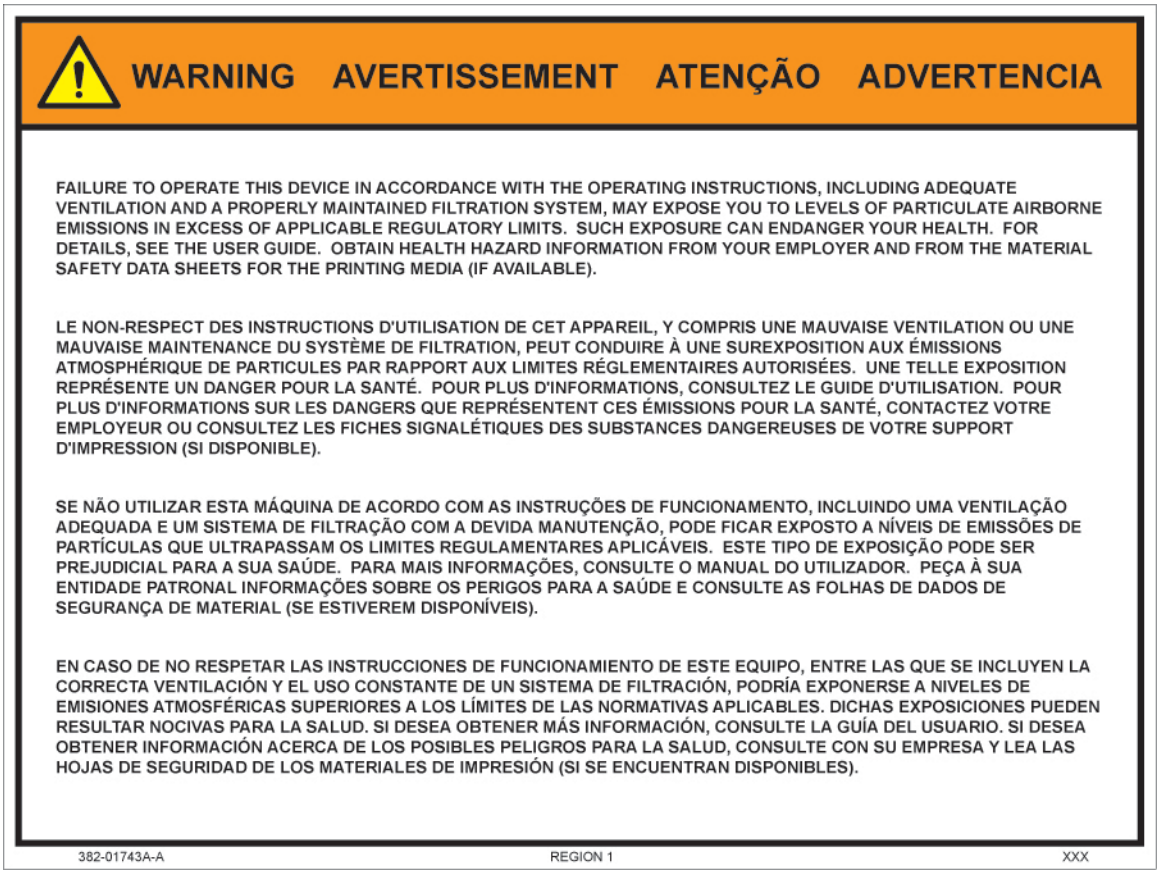


Figure 37: Particulate Airborne Emissions label

Gaseous and Particulate Airborne Emissions Label

The Gaseous and Particulate Airborne Emissions label (if applicable) warns you of the possible release of airborne emissions when imaging certain types of printing media.

Important: Do not attempt to use printing media that have not been qualified by Kodak.

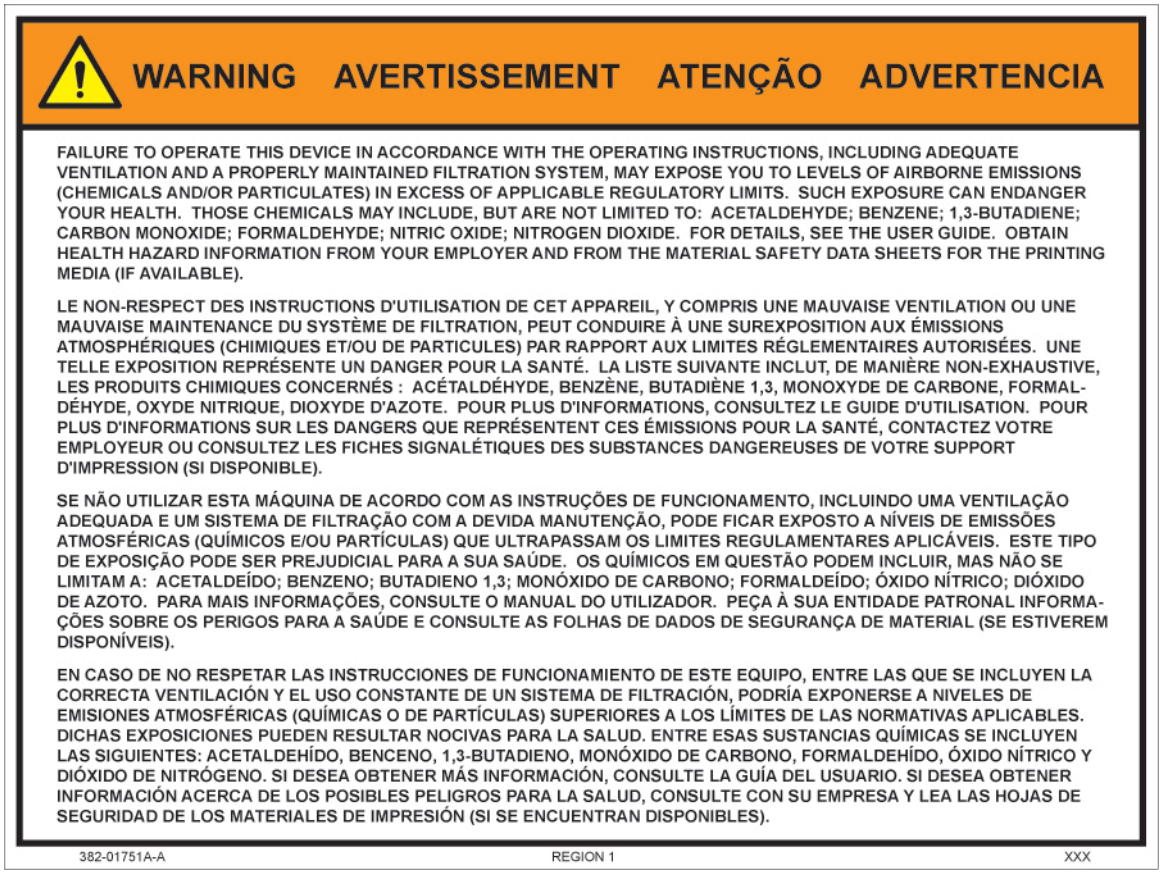


Figure 38: Gaseous and Particulate Airborne Emissions label

Description of Labels on Platesetter Options

Labels on the MCU Option for Magnus VLF Platesetters

Type of Label	Label Name	Illustration	Location
Electrical, mechanical, and general safety	Hazardous voltage	page 32	page 42
	Cautions when cassette unloaded	page 32	
	Beware of moving parts when interlock deliberately overridden (warning for service representatives)	page 32	
	Safety interlock override (danger for service representatives)	page 33	

Hazardous Voltage Label

This label is found in these MCU locations:

- On the rear panel near the tool-secured fastener
- On the power box cover
- On the Terminal Block TB2 cover

DANGER: Service access covers can be removed only by an authorized service representative. Do not remove covers bearing this label as these areas contain high-voltage components that can cause severe electrical shock, which could result in serious injury or death.

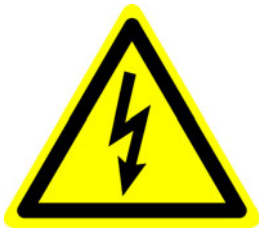


Figure 39: Hazardous voltage label

Cautions When MCU Cassette Unloaded

When you pull the MCU cart out of the MCU for loading, do not crawl underneath the cassette. If you do, the cassette could become dislodged and fall on top of you. There are labels on the top of each rail to remind you not to crawl underneath the cassette when the MCU is being loaded.

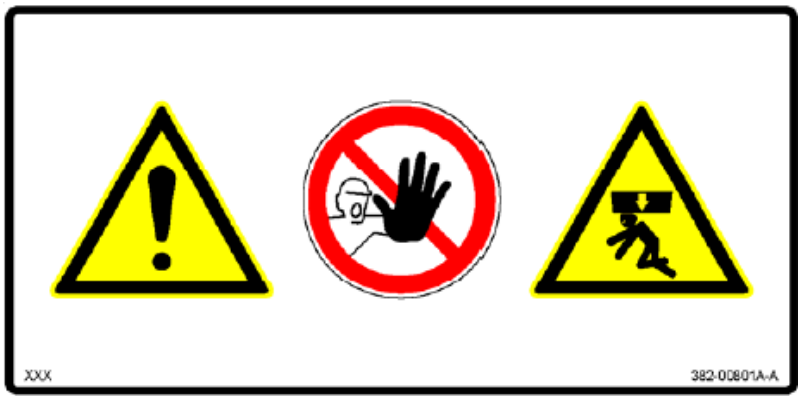


Figure 40: Cautions when MCU cassette unloaded

Beware of Moving Parts When Interlock Deliberately Overridden Label (for Service Personnel)

This label is located beside the SIO key switch on the MCU service control panel.



Figure 41: Beware of moving parts when interlock deliberately overridden label

Safety Interlock Override Label (for Service Personnel)

This label is located beside the SIO key switch on the MCU service control panel.

DANGER: The service safety interlock override key switch is for use only by an authorized service representative. Unauthorized use can expose you to serious danger from visible and invisible high-powered laser radiation, moving mechanical parts, and/or electrical shock, which could result in serious injury or death.

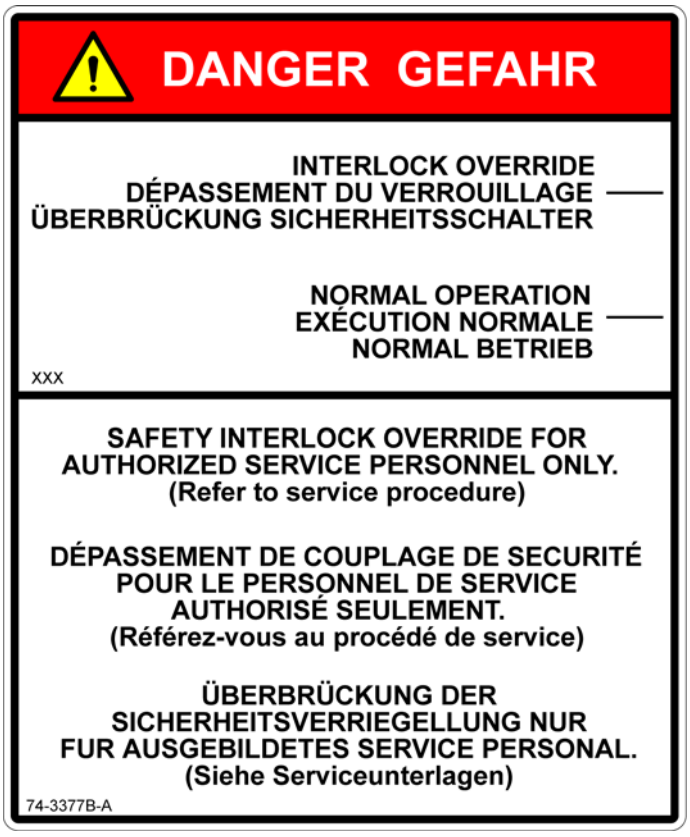


Figure 42: Safety interlock override label

Labels on the APL Option for Magnus VLF Platesetters

Type of Label	Label Name	Illustration	Location
Identification	Dataplate	page 34	page 42
Electrical, mechanical, and general safety	Hazardous voltage	page 35	
	Safety interlock override	page 35	
	Beware of moving parts when interlock deliberately overridden (warning for service representatives)	page 35	
	Warning: Mount on noncombustible floor material only	page 34	
	PSI/BAR	page 36	

Dataplate Label

This label is located on the permanently fixed panel above the power entry box. See *Labels on the APL* on page 42. When you call a service representative, you may be asked to find the serial number for your output device on this label.

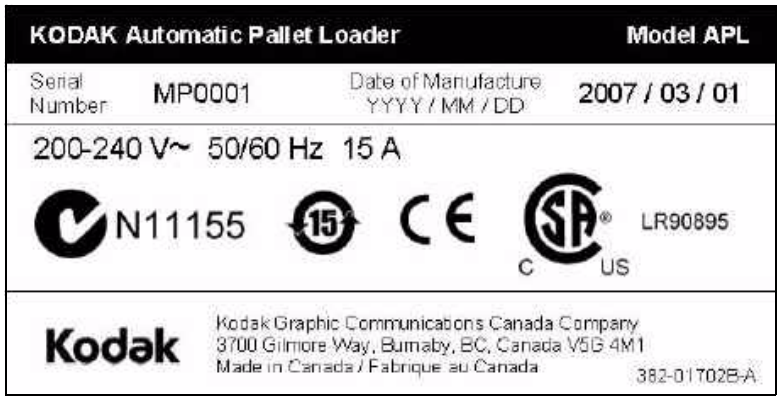


Figure 43: Dataplate label for the APL option

Mount on Noncombustible Flooring Material Only

This label is located on the permanently fixed panel above the power box. See *Labels on the APL* on page 42.



Figure 44: Mount on concrete floor or other noncombustible flooring material label

Hazardous Voltage Label (for Service Personnel)

This label is found on the power box access panel. See *Labels on the APL* on page 42.



DANGER: Service access covers can be removed only by an authorized service representative. Do not remove covers bearing this label as these areas contain high-voltage components that can cause severe electrical shock, which could result in serious injury or death.



Figure 45: Hazardous voltage label

Beware of Moving Parts When Interlock Deliberately Overridden Label (for Service Personnel)

This label is located on the frame behind each of the bay access panels that are secured with solenoid locks. See *Labels on the APL* on page 42.



Figure 46: Beware of moving parts when interlock deliberately overridden label

Maximum PSI/BAR Label

This label is located on the power entry panel at the bottom, near the compressed air inlet connector. See *Labels on the APL* on page 42.

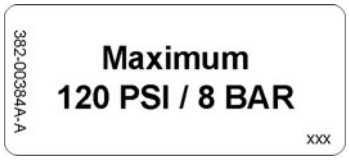


Figure 47: Maximum PSI/BAR label

Labels on the Hover Cart Option for Magnus VLF Platesetters With the APL Option

Type of Label	Label Name	Illustration	Location
Identification	Dataplate	page 37	page 43
Electrical, mechanical, and general safety	Pinch hazard	page 37	
	Maximum PSI/BAR	page 37	

Dataplate

The dataplate label is located at the front of the Hover Cart.

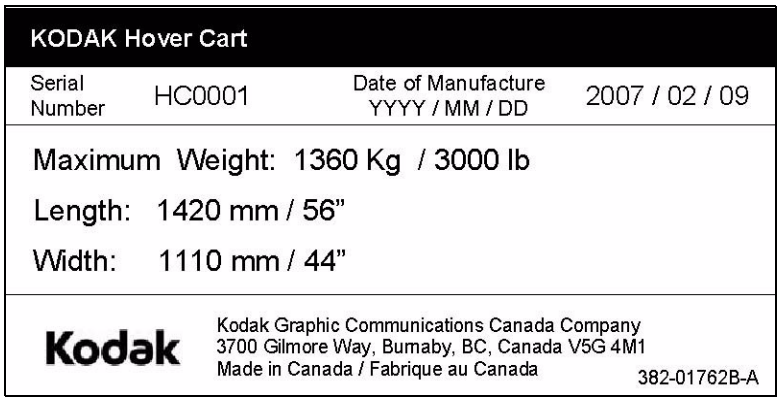


Figure 48: Dataplate label for the APL option

Pinch Hazard Label

This label is located on the lifters, showing where your fingers could be pinched between the lifter and the floor.



Figure 49: Hover Cart pinch hazard label

Maximum PSI/BAR Label

This label is located near the compressed air inlet port.

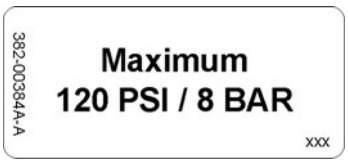


Figure 50: Maximum PSI/BAR label

Label Locations

Location of Labels on the Magnus VLF



Figure 51: Labels on the exterior panels at the rear of the Magnus VLF

For an illustration of these labels and more information, see:

- *Dataplate Label* on page 17
- *Class 1 Laser Product Label* on page 18
- *Center for Devices and Radiological Health (CDRH) Compliance Statement Label* on page 18
- *Federal Communications Commission (FCC) Compliance Statement Label* on page 18
- *High Touch Current Label* on page 20
- *Hazardous Voltage Label* on page 20
- *Two Power Supply Cords Label* on page 22
- *Solenoid Lock Label* on page 22
- *Laser Interlocked Panel Label* on page 19
- *Safety Interlock Override Label (for Service Personnel)* on page 23
- *Maximum PSI/BAR Label* on page 36

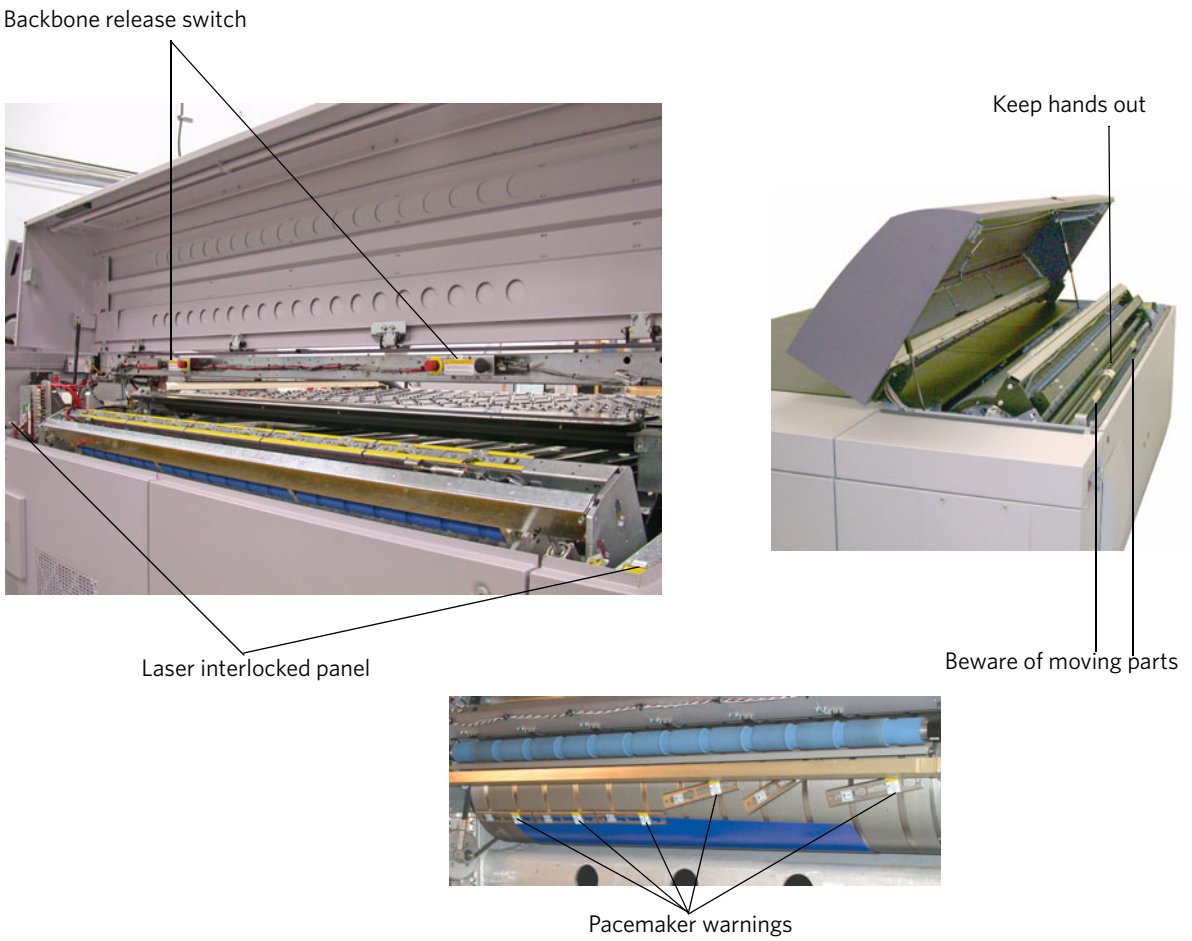


Figure 52: Labels on interior components that can be seen when the Magnus VLF rear hood and panels are open

For an illustration of these labels and more information, see:

- *Laser Interlocked Panel Label* on page 19
- *Keep Hands Out Label* on page 22
- *Beware of Moving Parts When Interlock Deliberately Overridden Label (for Service Personnel)* on page 24
- *Backbone Release Switch Label (for Service Personnel)* on page 25
- *Pacemaker Warning Label* on page 25

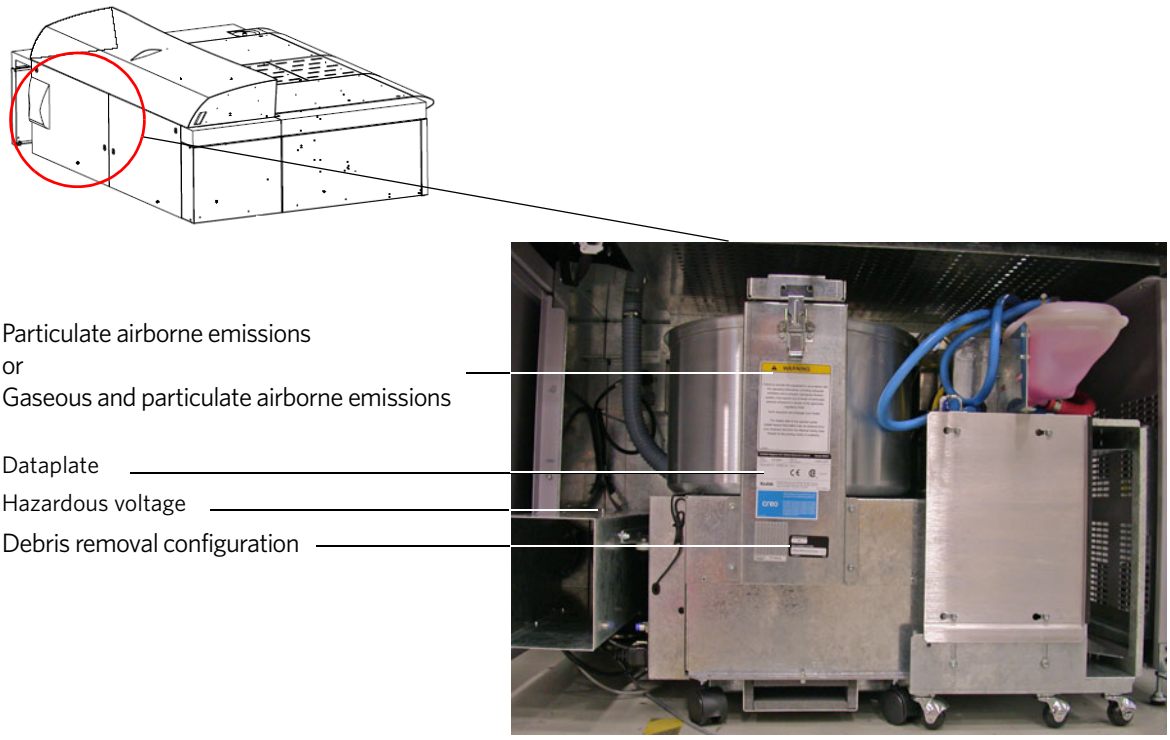


Figure 53: Labels on the debris removal unit and fan

For an illustration of these labels and more information, see:

- *Dataplate Label* on page 28
- *BP Configuration Label* on page 29 or *Airborne Emissions Labels* on page 29
- *Particulate Airborne Emissions Label* on page 29 or *Gaseous and Particulate Airborne Emissions Label* on page 30
- *Hazardous Voltage Label* on page 20

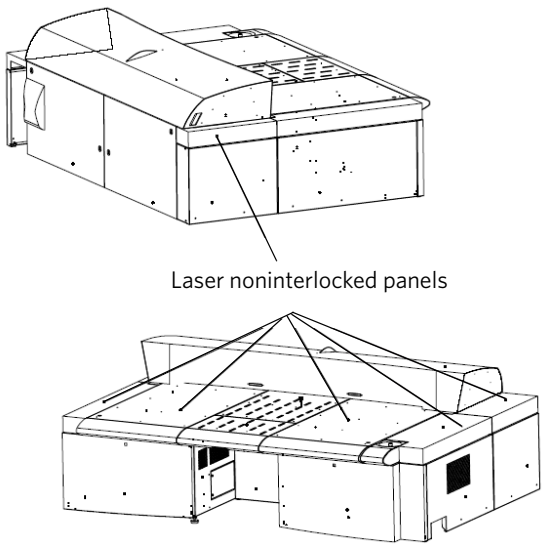


Figure 54: Location of laser noninterlocked panel labels on the Magnus VLF

For an illustration of this labels and more information, see *Laser Noninterlocked Panel Label* on page 19.

Location of Labels on the Thermal Imaging Head

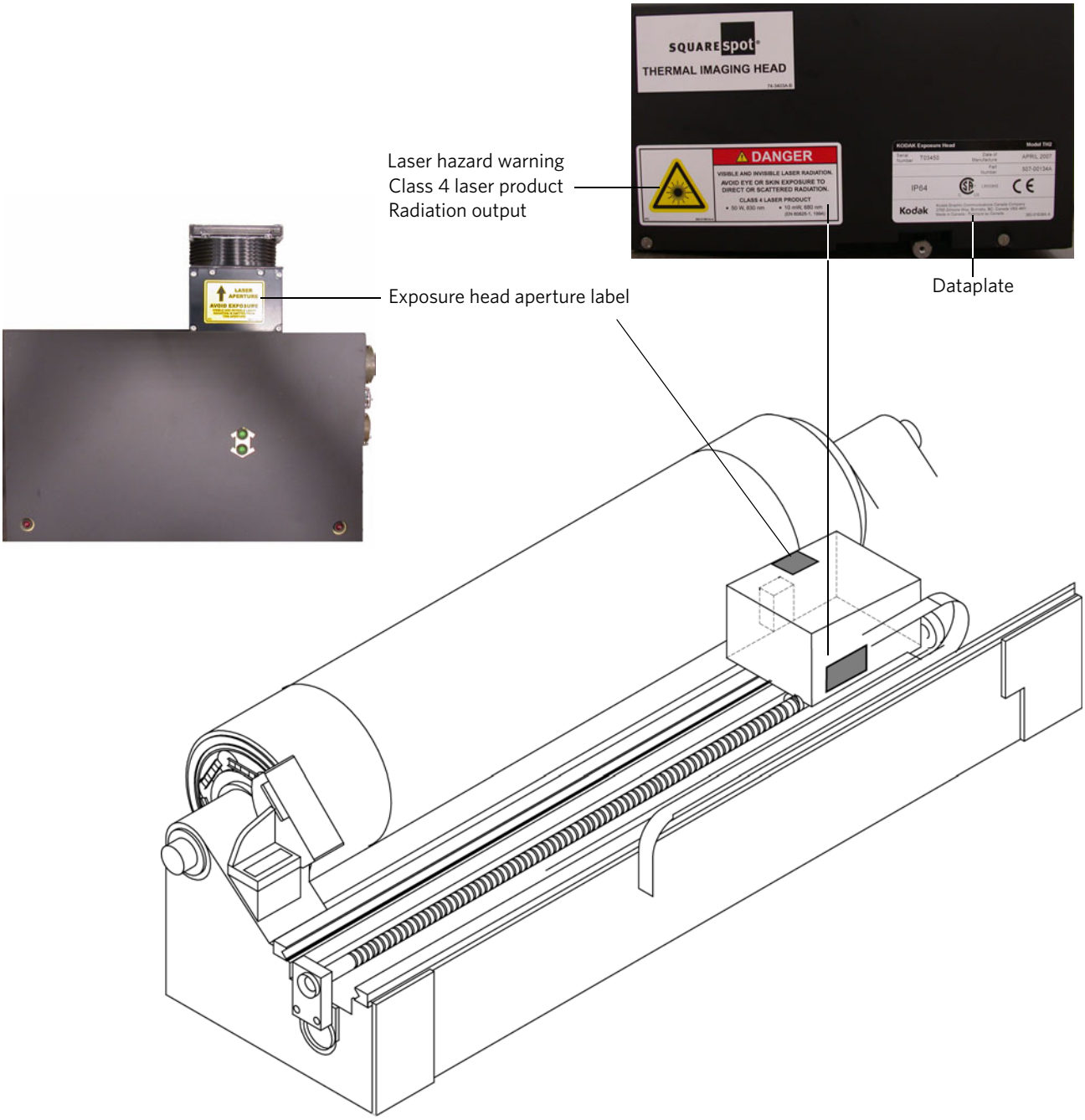


Figure 55: Location of laser safety labels on the thermal imaging head

For an illustration of these labels and more information, see:

- *Imaging Head Aperture Label* on page 27
- *Laser Hazard/Class 4 Laser Product Label/Radiation Output* on page 27
- *Dataplate Label* on page 26

Location of Labels on the MCU

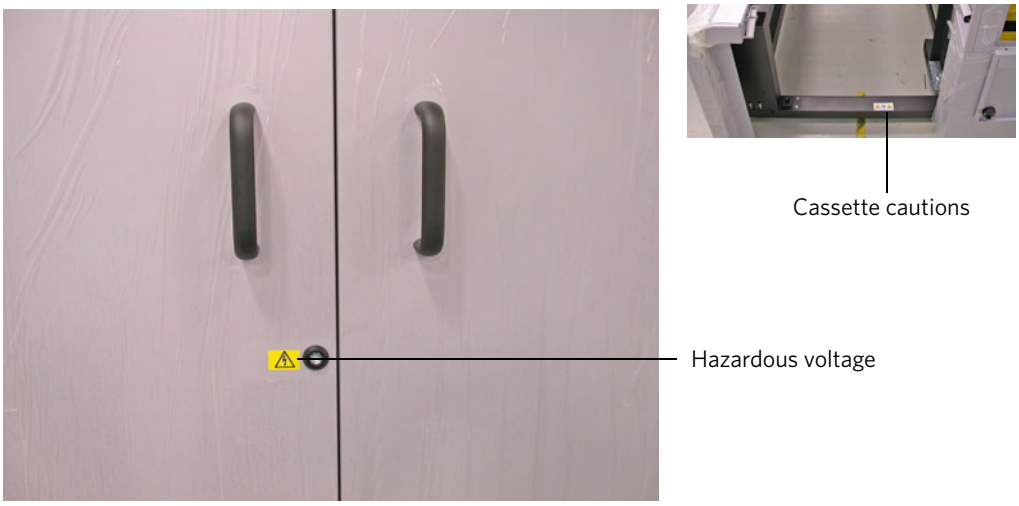


Figure 56: Labels on the MCU

For an illustration of these labels and more information, see:

- *Hazardous Voltage Label* on page 32
- *Cautions When MCU Cassette Unloaded* on page 32

Location of Labels on the APL

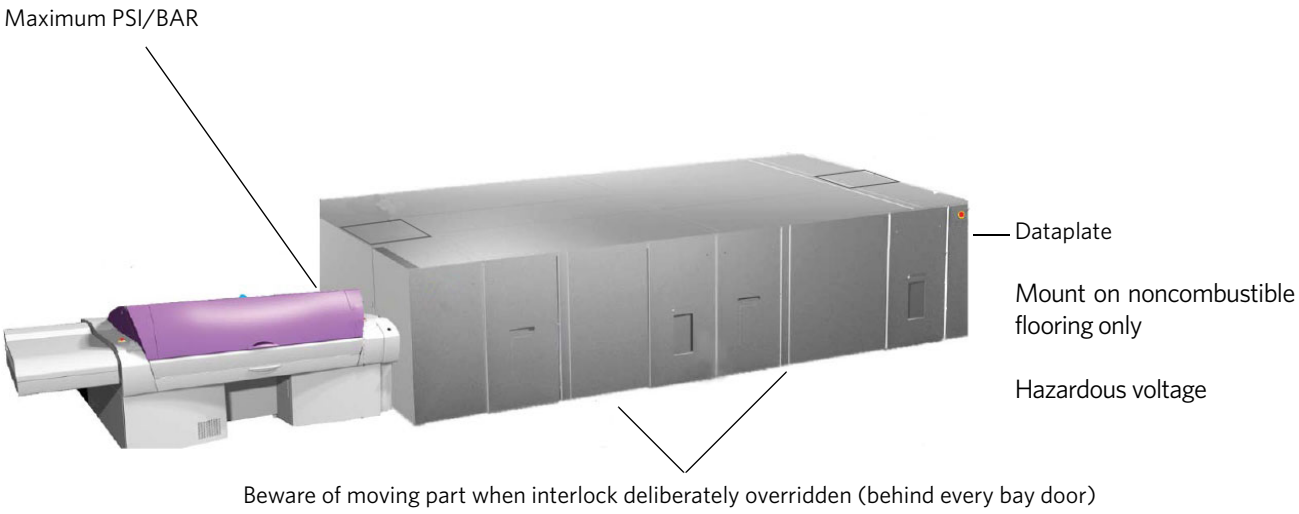


Figure 57: Labels on the APL

For an illustration of these labels and more information, see:

- *Dataplate Label* on page 34
- *Mount on Noncombustible Flooring Material Only* on page 34
- *Hazardous Voltage Label (for Service Personnel)* on page 35
- *Maximum PSI/BAR Label* on page 36

Location of Labels on the Hover Cart

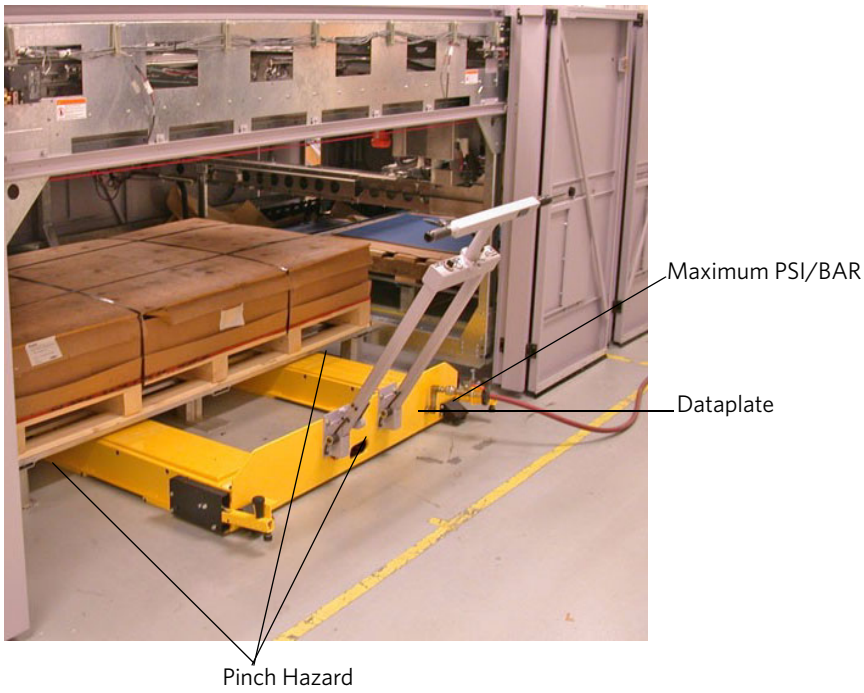


Figure 58: Labels on the Hover Cart

For an illustration of these labels and more information, see:

- *Dataplate* on page 36
- *Pinch Hazard Label* on page 37
- *Maximum PSI/BAR Label* on page 37

B

Regulatory Compliance

Regulatory Approval Model Designation 46
Compliance With Standards for Electrical and Mechanical Safety 46
Compliance With Standards for Laser Safety 48
Compliance With Standards for Electromagnetic Interference and Electromagnetic Compatibility 49
Compliance With Standards for Noise Emissions 49

Regulatory Approval Model Designation

MTA is the regulatory approval model designation for the Magnus VLF output device. The regulatory approval model designation name appears on the dataplate label (for an example of this label, see page 17) and all regulatory approval documents.

Compliance With Standards for Electrical and Mechanical Safety

The Magnus VLF output device has been designed, tested, and evaluated for compliance with these electrical and mechanical safety standards:

- CSA 60950-1 *Information Technology Equipment —Safety—Part 1*
- UL 60950-1 *Information Technology Equipment—Safety—Part 1*
- EN 60950-1 *Information Technology Equipment—Safety—Part 1*
- EN 60204-1 *Safety of Machinery, Electrical Equipment of Machines*

The CSA International "C CSA US" mark on the dataplate label (for an example of this label, see page 17) indicates compliance with these standards:

- CSA 60950-1 *Information Technology Equipment —Safety—Part 1*
- UL 60950-1 *Information Technology Equipment—Safety—Part 1*

The CE mark on the dataplate label indicates compliance with the following directives:

- Low Voltage Directive 73/23/EEC
- Directive of Machinery 98/37/EC
- Directive of Electromagnetic Compatibility 2004/108/EC

EC Declaration of Conformity for the Platesetter and Its Options

Kodak **Declaration of Conformity**

Kodak Graphic Communications Canada Company
Burnaby, Canada

We declare our sole responsibility that the product:

Product:	**Imaging Device**
Product Name:	**MAGNUS VLF, MAGNUS VLF QUANTUM**
Regulatory Model:	**MTA**

to which this declaration relates is in conformity with the following standards and therefore bears the CE marking:

EN 60204-1 / 1997 +A1 Safety of Machinery, Electrical Equipment of Machines
EN 60825-1 / 1994 +A1 +A2 Safety of Laser Products (Class 1 Laser Product)
EN 60950-1 / 2001 Information Technology Equipment - Safety - Part 1: General Req.
EN 55011 Class A / 1998 +A1 +A2 EMC, Product Standard, Emission (CISPR 11)
EN 61000-6-2 / 2001 EMC, Generic Immunity Standard, Industrial Environment

following the provisions of the applicable directives:

Directive of Machinery 98/37/EC and amendments
Low Voltage Directive 73/23/EEC and amendments
Directive of Electromagnetic Compatibility 2004/108/EC

Supplementary Information:

- The product is assigned a regulatory model designation which denotes the regulatory aspects of the design. The regulatory model designation is the main product identifier in the regulatory documentation and test reports, and is marked on the product's dataplate label. The regulatory model designation should not be confused with the product name(s) for marketing purposes.
- The regulatory model designation includes the following options: ContinuousLoad, Autoloader, Punch, TH2 and TH3.
- The product is rated 200-240 V AC, 50/60 Hz, 24 A (x2), cord connected, Class I.
- The product is high-powered (>1 kW) for professional use and is therefore exempt from the requirements of EN 61000-3-2.
- Kodak Graphic Communications Canada Company is registered to ISO 9001.

European Contact: Israel Sandler, Managing Director, Creo EMEA S.A., a subsidiary of Kodak, Waterloo Office Park, Building E-F, Drève Richelle 161, B-1410 Waterloo, Belgium, Phone +32.2.352 25 11, Fax +32.2.351 09 15.

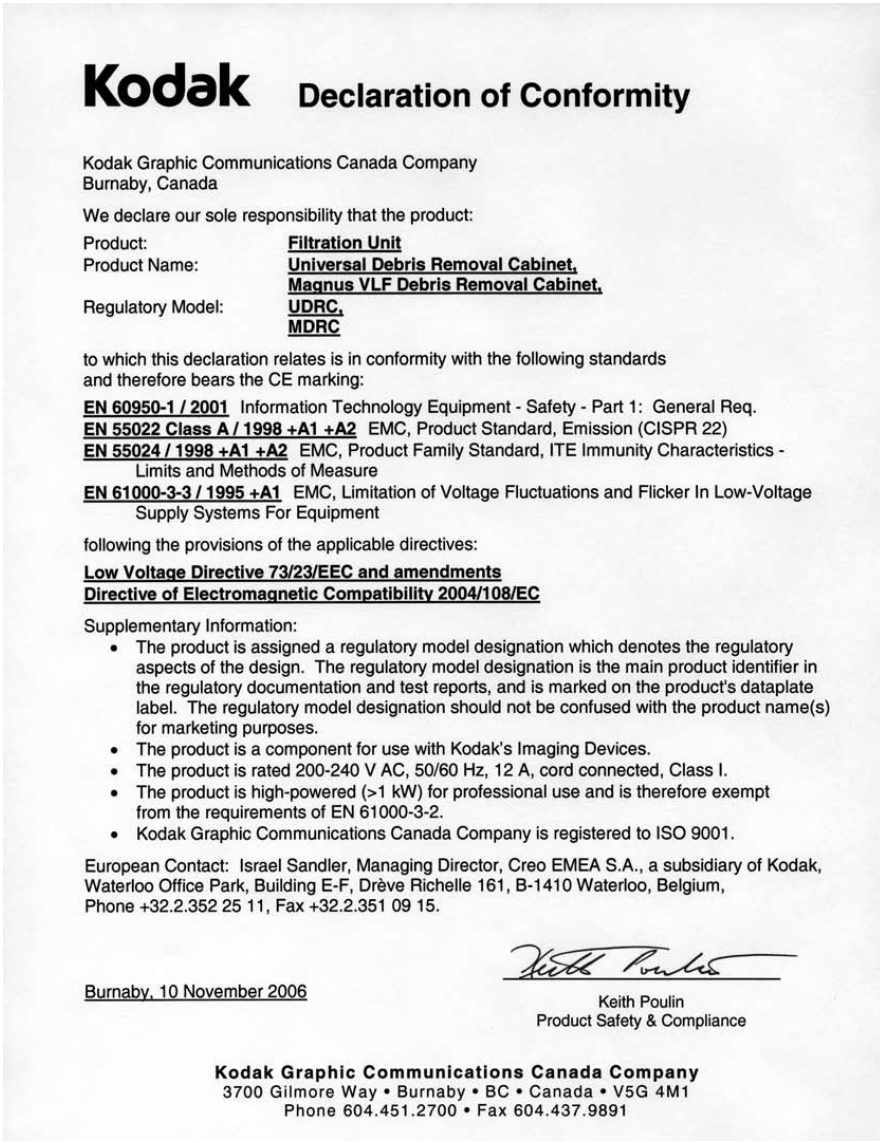
Burnaby, 12 April 2006

Keith Poulin
Product Safety & Compliance

Kodak Graphic Communications Canada Company
3700 Gilmore Way • Burnaby • BC • Canada • V5G 4M1
Phone 604.451.2700 • Fax 604.437.9891

Figure 59: EC Declaration of Conformity for the platesetter

EC Declaration of Conformity for the Filtration Unit



Kodak **Declaration of Conformity**

Kodak Graphic Communications Canada Company
Burnaby, Canada

We declare our sole responsibility that the product:

Product:	**Filtration Unit**
Product Name:	**Universal Debris Removal Cabinet,**
	Magnus VLF Debris Removal Cabinet,
Regulatory Model:	**UDRC,**
	MDRC

to which this declaration relates is in conformity with the following standards and therefore bears the CE marking:

EN 60950-1 / 2001 Information Technology Equipment - Safety - Part 1: General Req.
EN 55022 Class A / 1998 +A1 +A2 EMC, Product Standard, Emission (CISPR 22)
EN 55024 / 1998 +A1 +A2 EMC, Product Family Standard, ITE Immunity Characteristics - Limits and Methods of Measure
EN 61000-3-3 / 1995 +A1 EMC, Limitation of Voltage Fluctuations and Flicker In Low-Voltage Supply Systems For Equipment

following the provisions of the applicable directives:

Low Voltage Directive 73/23/EEC and amendments
Directive of Electromagnetic Compatibility 2004/108/EC

Supplementary Information:

- The product is assigned a regulatory model designation which denotes the regulatory aspects of the design. The regulatory model designation is the main product identifier in the regulatory documentation and test reports, and is marked on the product's dataplate label. The regulatory model designation should not be confused with the product name(s) for marketing purposes.
- The product is a component for use with Kodak's Imaging Devices.
- The product is rated 200-240 V AC, 50/60 Hz, 12 A, cord connected, Class I.
- The product is high-powered (>1 kW) for professional use and is therefore exempt from the requirements of EN 61000-3-2.
- Kodak Graphic Communications Canada Company is registered to ISO 9001.

European Contact: Israel Sandler, Managing Director, Creo EMEA S.A., a subsidiary of Kodak, Waterloo Office Park, Building E-F, Drève Richelle 161, B-1410 Waterloo, Belgium, Phone +32.2.352 25 11, Fax +32.2.351 09 15.

Burnaby, 10 November 2006

Keith Poulin
Product Safety & Compliance

Kodak Graphic Communications Canada Company
3700 Gilmore Way • Burnaby • BC • Canada • V5G 4M1
Phone 604.451.2700 • Fax 604.437.9891

Figure 60: EC Declaration of Conformity for the debris removal unit

Compliance With Standards for Laser Safety

The Magnus VLF output device has been designed, tested, and evaluated for compliance with the following laser safety standards:

- U.S. Federal Regulations 21 CFR 1040.10, in accordance with the regulations of the Center for Devices and Radiological Health (CDRH) of the U.S. Food and Drug Administration
- EN 60825-1, *Safety of Laser Products*

The Class 1 Laser Product label on the output device indicates compliance with these standards. For an example of this label, see page 18.



WARNING: Use of controls or adjustments or performance of procedures other than those specified in the help system or visual reference guide may result in hazardous radiation exposure.

Compliance With Standards for Electromagnetic Interference and Electromagnetic Compatibility

Electromagnetic Interference (EMI)

The Magnus VLF output device has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the output device is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with this guide, may cause harmful interference to radio communications. Operation of the output device in a residential area is likely to cause harmful interference. You must correct the interference at your own expense.

The FCC compliance statement label on the output device indicates compliance with these limits. For an example of this label, see page 18.

Electromagnetic Compatibility (EMC)

The Magnus VLF output device has been designed, tested, and evaluated for compliance with the Directive of Electromagnetic Compatibility 2004/108/EC. It complies with the following EMC standards:

- EN 55022, Class A
- EN 55024
- EN 61000-3-3

Compliance With Standards for Noise Emissions

The Magnus VLF output device has been designed, tested, and evaluated for compliance with the maximum noise emission limit permitted for an office environment, 80 dB(A). Noise emissions from the Magnus VLF output device will not exceed 79 dB(A) when tested in accordance with EN ISO 7779:2001, *Acoustics — Measurement of airborne noise emitted by information technology and telecommunications equipment*.

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