Safety Precautions for Users

English

Magnus 800 Platesetter

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Symbols Used in This Manual



DANGER: This indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury. This does not alert you to a property damage accident unless personal injury risks are associated with the accident.



WARNING: This indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury. This does not alert you to a property damage accident unless personal injury risks are associated with the accident.



CAUTION: This indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury. This may also alert you to unsafe practices or potential property-damage-only accidents.



Note: A note provides additional information that you may need to consider.

Introduction

Any person who operates the Magnus 800 platesetter must have access to this document.
Read the document carefully, before operating or maintaining the Magnus 800 platesetter.

Note: This safety guide is only applicable to the *Magnus* 800 platesetter. If you operate the *Magnus* Single-Cassette Autoloader and/or *Magnus* Multi-Cassette Autoloader then you must also read their associated safety documentation.

The platesetter is a Class 1 laser products, according to IEC60825-1 and USA 21 CFR 1040. This implies that there is no hazardous laser radiation, providing that the user and service safety precautions are followed.

Magnus 800 safety at a glance - avoiding exposure hazards

WARNING: The platesetter has inside a visible and an invisible laser sources, both of them are highly hazardous to the eye.

1. Keep all external doors and internal protective barriers of the platesetter complete, unharmed and intact!
2. Never defeat the laser or any other interlock switch!
3. Never leave any object between the laser thermal head and the drum.
4. Do not open any internal doors or covers. Do not use any tools!
5. Do not operate the platesetter if there is any doubt regarding the above. Contact your service engineer.

Extensive means were taken in the design and manufacturing of the platesetter to eliminate the hazards for the operator and service personnel.

Carefully follow the instructions in this document to ensure your safety and the safety of others when operating or maintaining the platesetter.

Magnus 800 Platesetter Views



Figure 1: Front view



Figure 2: Front view with hood and loading platform raised



Figure 3: Rear view



Figure 4: Left side



Figure 5: Right side



Figure 6: Platesetter emergency stop buttons

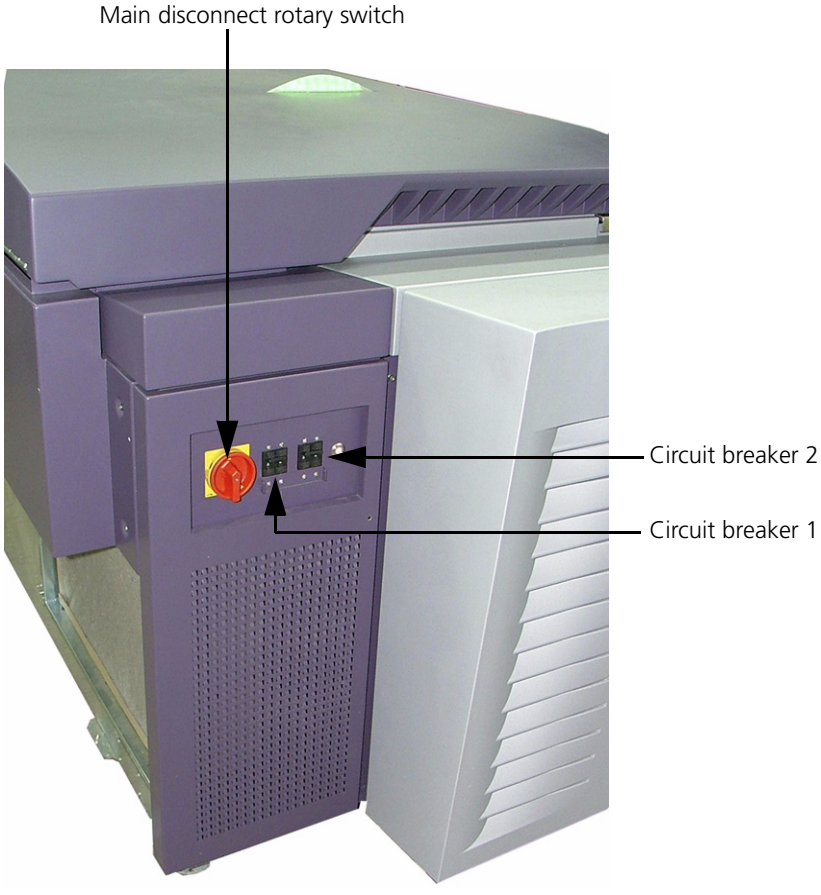


Figure 7: Main disconnect rotary switch, circuit breakers 1 and 2



Figure 8: Platesetter with hood raised

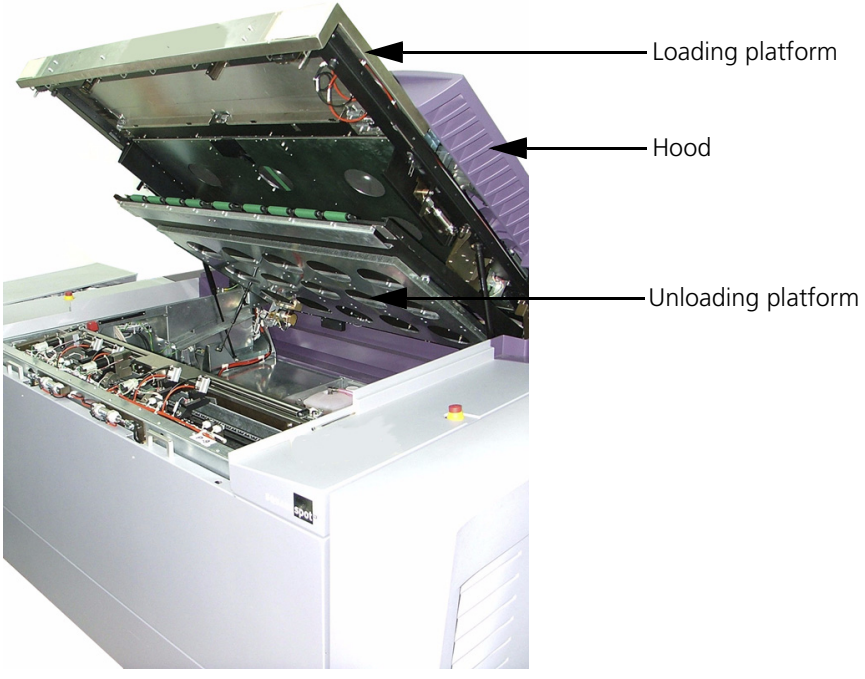


Figure 9: Platesetter with hood, loading platform and unloading platform raised

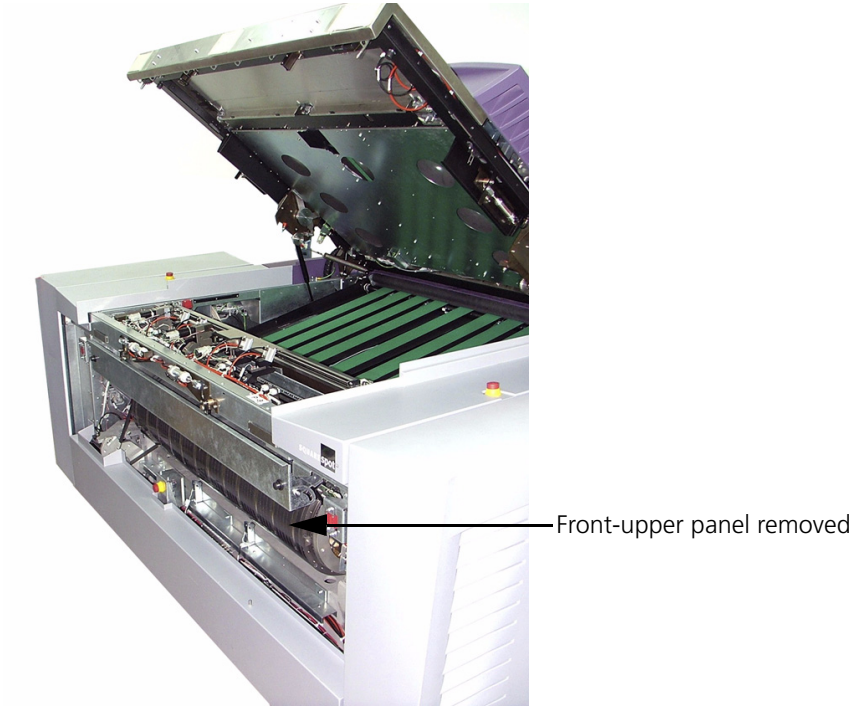


Figure 10: Platesetter with front-upper panel removed and loading platform raised

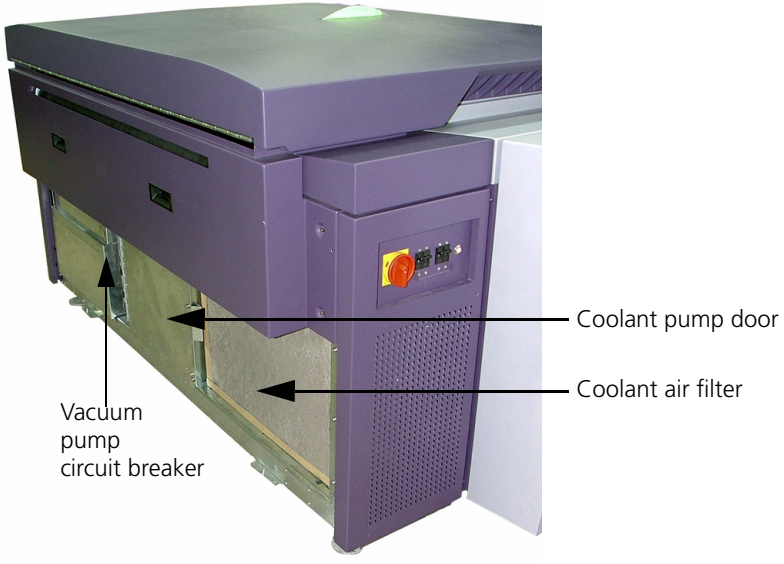


Figure 11: Platesetter with lower-rear panel removed

Installation Safety Precautions

Installation must only be performed by authorized service personnel.

The *Magnus* 800 platesetter is installed and serviced exclusively by specialized technicians. These technicians are trained, authorized and certified in the proper procedures for working with, and adjusting the laser system, and working with the mechanical, cooling and electrical systems of the platesetter.



WARNING: Do not connect the platesetter to the power supply before it is installed by authorized service personnel.



WARNING: Only certified service personnel are allowed to service the *Magnus* 800 platesetter.



WARNING: Only certified service personnel are allowed to attach the single and multi-cassette autoloader to the *Magnus* 800 platesetter!
Only certified service personnel are allowed to dismantle the single and multi-cassette autoloader from the *Magnus* 800 platesetter!

Disconnecting from the Mains and Resetting the Circuit Breakers

Disconnecting from the Mains

The *Magnus* 800 platesetter is equipped with a rotary type main disconnect switch, located on the circuit breaker box on the left side of the platesetter. Also in this location, there is the on/standby push button, and two additional circuit breakers (CB1 and CB2).

Note: Emergency stop buttons are located on the top right and top left of the platesetter, and behind the upper-front panel. Pressing either of these buttons will stop the operation in progress, but will not disconnect the platesetter from the mains.

WARNING: Disconnecting the platesetter from the mains can only be achieved by turning off the main rotary switch (set to "0"), or by unplugging the main power cable from the mains.

Resetting the Circuit Breakers

Note: The circuit breaker CB1is for the three internal power supply units, whereas the circuit breaker CB2 is for the single-cassette autoloader, the drum, the fans, and the chiller.

Note: A special circuit breaker for the drum vacuum pump is located internally near the vacuum pump on the rear of the platesetter (see *Figure 11*).

Note: The user is allowed to reset either of the three circuit breakers.

WARNING: When resetting a circuit breaker, first turn the main rotary switch to off, reset the circuit breaker, and then turn the main rotary switch to on.

WARNING: If a circuit breaker is repeatedly disconnecting, turn off the platesetter and call for service.

CAUTION: The vacuum pump, near the third circuit breaker, may be hot to touch.

Disconnecting from the Pneumatic Air Pressure

Switching off the air pressure is done by switching off the air supply. The *Magnus* 800 platesetter receives pneumatic air pressure from the filtration unit located on the wall. Turn the valve to shut the air pressure off.

Basic and Laser Safety Precautions

The basic and laser safety precautions section includes the following:

- Thermal imaging laser head
- Enclosures
- Safety interlocks
- Warning labels



WARNING: Use of controls or adjustments, or performance of procedures other than those specified in this manual may result in hazardous radiation exposure.

The platesetter is equipped with a highly hazardous laser system that exposes the media. However, the platesetter as a whole, is a class 1 laser product, according to international safety standards IEC60825-1 and the American USA 21 CFR 1040. This implies that the operator and service engineer do not access hazardous laser radiation, providing that the user and service safety precautions are followed.



WARNING: The laser beam and radiation of the platesetter contain invisible and visible components, both are hazardous to the eye and skin. In the presence of flammable material, the laser beam is also a fire hazard! Even brief exposure of the eyes to the laser radiation or beam, or its reflections from shiny or matte objects may cause permanent loss or permanent degradation of eyesight.



WARNING: Whenever in doubt, the platesetter should never be operated until it is checked and approved for operation by an authorized service engineer.



WARNING: If there is any visible damage to an enclosure, interlock switch, or an emergency button, then the platesetter must not be used until it is fixed by a Kodak authorized service personnel. Similar conditions apply to any doors or panels that do not close properly.



WARNING: If you must enter the room where the platesetter is located when the platesetter is on, and you suspect that any of the following precautions were somehow violated, then you must disconnect the power supply to the platesetter before entering the room.



WARNING: The operator is forbidden from using any tools.



WARNING: If the service engineer has activated any interlock defeaters, and the right side door is open, do not stand at any distance at the side of the platesetter.

Thermal Imaging Laser Head

The *Magnus* 800 platesetter has a highly hazardous thermal imaging laser head inside that exposes the media. The thermal imaging laser head uses two separate laser emitters:

- Invisible write laser
- Visible (red) auto focus laser



WARNING: Do not operate the thermal imaging laser head outside the platesetter or with any doors or panels open, nor bypass any of the laser safety mechanisms. The laser output or reflections from shiny or matte objects can cause severe and permanent eye and skin damage and is a fire hazard in the presence of flammable materials.



DANGER: Even brief exposure of the eyes to the laser radiation or beam, or its reflections from shiny or matte objects may cause permanent loss or permanent degradation of eyesight.

The write laser beam is invisible to the eye (class IV, approximately 830 nm).

The safety interlock switches are never to be defeated either by operator or service personnel!

The auto focus laser is visible (red) (class IIIB, approximately 670 nm).

The auto focus laser interlock may be defeated by authorized service engineer only, while following all safety instructions listed in the service safety documentation.



DANGER: Do not look directly or indirectly into the auto focus laser. Direct eye exposure to the laser beam, or its reflection can cause permanent eye damage.

Enclosures

Together with the laser interlock system, the platesetter enclosure is designed to protect anyone in the platesetter vicinity from exposure to the laser radiation by enclosing the laser radiation within the platesetter. The enclosure includes the external doors and panels, and the internal protective barriers. The internal barriers that may be dismantled by service engineer have warning labels on them indicating that the barrier must be in place. The internal protective barriers prevent the laser radiation from escaping through the platesetter loading/unloading openings and through other openings, including the gaps between the external doors and panels. This protection depends upon the completeness and correct assembly of the outer enclosure and the internal protective barriers.



WARNING: After performing any service activity and before switching **on** the platesetter, the service engineer must check and ensure that all external and internal enclosures and doors are complete, not broken or cracked, and properly assembled to the platesetter.



DANGER: If the platesetter is ON and the enclosure is damaged or incomplete, and even with the external doors closed, then visible and/or invisible laser radiation of up to several watts may be present. This radiation is hazardous to the eye or skin. Even brief exposure of the eye to this radiation or its reflection from shiny or matte objects can cause permanent degradation or permanent loss of eyesight!



CAUTION: The hood and loading platform are raised by command in *Magnus* 800 Controller. The hood is heavy and rises with considerable force. Make sure that nobody is near the platesetter when raising either the hood or the loading platform.



CAUTION: The platesetter hood and loading platform, which are both heavy and balanced by supporting springs, open upwards. Mind your head!

After the hood has been opened, separate it from the loading platform. This will enable the hood to be fully raised, and in addition it will stabilize both the hood and loading platform.



WARNING: In several locations on the platesetter, there are protruding metal parts that may present a hazard to your eyes and body. These locations have warning labels depicting a punctured hand in a triangle.
Be careful not to harm yourself by these parts.



WARNING: When the hood and loading platform are raised, the operator may open the front upper panel for handling the TEC/ LEC pieces, for cleaning the punched slugs from their box, or for "Removing Stuck Plates". None of these tasks require the use of any tools. However, the operator is strictly forbidden to open any door, barrier, or panel that requires a tool to open it.

Safety Interlocks

Safety interlocks provide the main protective means against the severe laser and mechanical hazards involved with the platesetter, providing that you carefully follow all the safety precautions detailed in this chapter.



WARNING: The safety interlock does not disconnect hazardous electrical voltage from parts and wires inside the platesetter. These parts, however, require tools to access.



WARNING: It may take up to two seconds for the laser interlock system to shut off the laser sources. Therefore, when opening a door or panel, do not rush to access inside the platesetter.

Interlock switches are designed to disconnect power from the laser system, drum motor and other motors whenever an interlocked door or panel is opened.



WARNING: The user is not allowed, under any circumstances, to defeat any interlock switch.

- Even authorized service personnel are forbidden to defeat the write laser interlocks, but are allowed to activate defeat switches for the focus laser and motor interlocks, while adhering to the appropriate safety instructions.

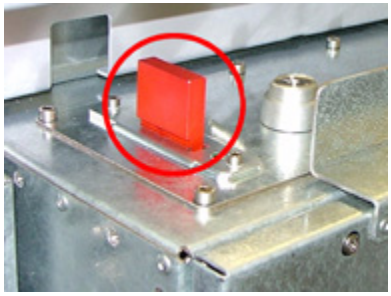
The following table is only included to provide the operator with information about the safety measures included in the platesetter.



WARNING: The operator is strictly forbidden to defeat any interlock switch or actuate any defeat switch, or use a tool!

Kodak Certified Operators

Only a certified Kodak operator, who has undergone specialist training regarding safety interlocks, is permitted to insert the red defeater key into the platesetter's defeater switch:



WARNING: Under no circumstances are non-certified Kodak operators permitted to insert the red defeater key into the platesetter's defeater switch.

Table 1: Functions and locations of platesetter interlocks and emergency stop switches.

Location	Function	Description
Hood / Loading platform - right side	Disable lasers and motors	1 safety interlock switch
Hood / Loading platform - left side	Disable lasers and motors	1 safety interlock switch
Left side door	Disable lasers and motors	1 safety interlock switch 1 interlock defeat push switch 1 focus laser defeat rotate key 1 emergency stop button close to the door **Note:** To defeat the motors' interlock, the push switch must be pressed in. To defeat the focus laser interlock (and simultaneously the motors' interlock), the push switch and the rotate key must be activated.

Location	Function	Description
Right side door	Disable lasers and motors	1 safety interlock switch 1 emergency stop button close to the door
Upper front panel - right side	Disable lasers and motors	1 safety interlock switch
Inside (behind) upper front panel - center	Disable lasers and motors	1 emergency stop button
Upper front panel - left side	Disable lasers and motors	1 safety interlock switch
Upper rear panel - right side	Disable lasers and motors	1 safety interlock switch
Upper rear panel - left side	Disable lasers and motors	1 safety interlock switch



DANGER: If a door or panel is open and if interlock switch is defeated, or if the interlock system failed, then severe mechanical hazards and visible and/or invisible laser radiation of up to several watts may be present. The laser radiation is hazardous to the eye and skin. Even brief exposure of the eye to this radiation or its reflection from shiny or matte objects can cause permanent degradation or permanent loss of eyesight!



Note: If a failure is detected in the operation of the interlock system, a warning message appears in *Magnus* Controller and the write laser, focus laser, and mechanical movements are shut off. In any case, not every possible failure can be detected, especially failure of a single interlock switch (for example, in the right and left side doors).



WARNING: If the laser interlock system warning message appears in *Magnus* Controller, shut the platesetter off and do not operate it again until it has been checked and approved for operation by an authorized service engineer.

Emergency Stop Buttons

One emergency stop button is located on each side of the plate setter, a third one is located inside - behind the upper front panel. When a button is pushed, all mechanical movement and laser radiation stops.
If you suspect a plate fly off, or a mechanical malfunction occurred, use the emergency stop buttons to briefly stop the drum rotating.



Note: When an emergency stop button is activated and released, the platesetter must be shut down and restarted from *Magnus* Controller.



WARNING: The emergency stop button does not disconnect the electricity inside the platesetter.



WARNING: Although the emergency stop buttons shut down the laser radiation, they should not be relied upon for laser safety. This is due to the fact that damage to the eyes may occur much faster than the activation of the emergency stop.

Remote Support

If remote support is accessed, the *Magnus* 800 platesetter can be operated in parallel from both a local (on site) and a remote location (remote response center).
Therefore, if an interlock is defeated, and the platesetter is operated from a remote location, the service engineer or a Kodak certified operator, maybe exposed to hazardous motor and/or focus laser radiation.
The platesetter can be operated in theory, but not in practice, via a remote location under either of the following three conditions:

- Platesetter doors, panels, and hood are closed. This is the safest method of remotely operating the platesetter.
- Doors and panels that have no interlocks are open. This is an unsafe method of remotely operating the platesetter, and should therefore be avoided.



WARNING: It is strictly forbidden to remotely operate the platesetter if any doors and panels that have no interlocks are open.

- Doors and panels that have interlocks are only defeated by service engineers or Kodak certified operators. This is a potentially unsafe method of remotely operating the platesetter, and it should be only employed when strictly adhering to the warnings below:



WARNING: The remote response center must contact the local site by telephone before they begin to operate the platesetter from a remote location.



WARNING: Only service engineers and Kodak certified operators are allowed to defeat interlocks.



WARNING: When the platesetter is operated from a remote location, it is forbidden to defeat the focus laser interlock. The write laser interlock must never be defeated.

Remote Operation Safety Precautions

The response center must request permission from the local site before the platesetter can be remotely operated.
The following request message will appear on the local monitor (at the site): `Machine Name\User Name is requesting to control your session remotely. Do you accept the request?` The request message has a time-out of 30 seconds. If the request is not approved within 30 seconds, then the request is automatically cancelled. Either the service engineer or Kodak certified operator must click **Yes** (within 30 seconds) to accept the request and activate remote support.

WARNING: Before accepting a request message to operate the platesetter from a remote location, make sure of the following:

- Service engineer and/or Kodak certified operator must make sure that no person can be potentially exposed to either mechanical or focus laser hazards.
- Focus laser interlock must not be defeated before accepting a remote support request, and must not be defeated during a remote support session. The write laser interlock must never be defeated.

Remote support can be terminated (disconnected) by either of the three following methods:

- Via the remote response center's computer.
- Via the local computer.
  To disconnect the remote support from the local computer, double-click the remote support icon, located on the local desktop:

  A confirmation message appears. Click **Yes** to terminate the session, or click **No** to continue the session.
- By activating an emergency stop button.

Warning Labels

The following pages show the warning labels, and their locations.

Make sure that the warning labels are in good order; notify your service engineer if a label needs to be replaced.

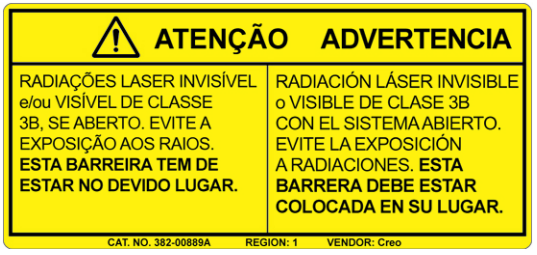
Note: The machine supplied to you should have the warning labels provided in your local language.

WARNING: Notify your service engineer if your local language is not provided on the warning labels.

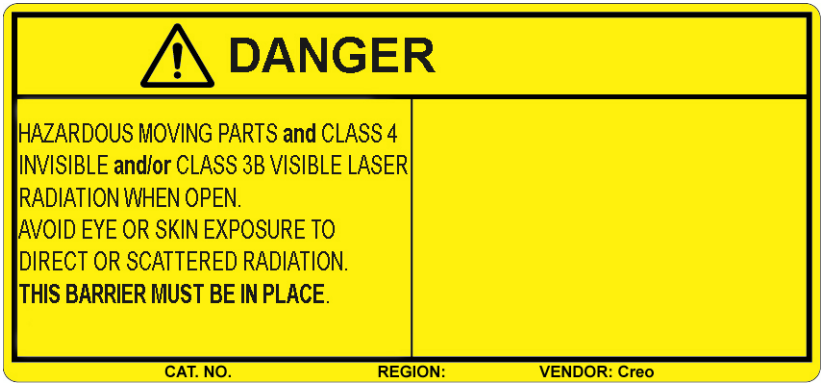
WARNING: The warning labels are provided for user and service personnel safety. Do not fail to comply with the warnings!



Label 1: 382-00888A



Label 1: 382-00889A



Label 20



Label 2: 382-00956A



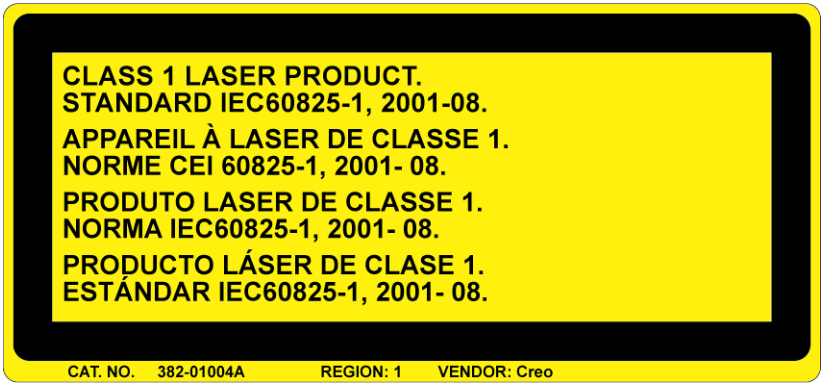
Label 3: 382-01051A



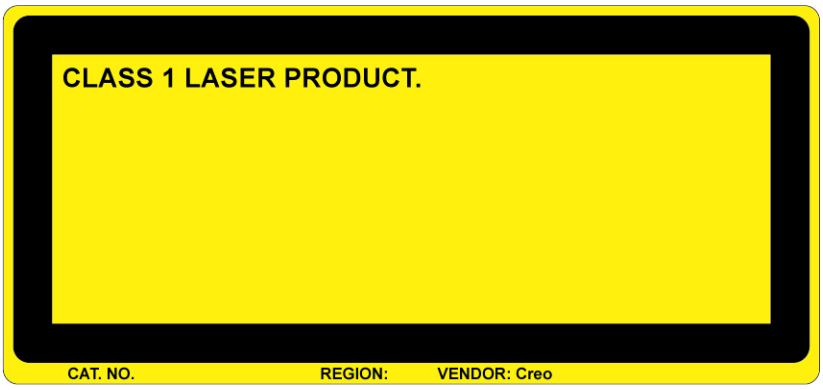
Label 3: 382-01052A



Label 4: 382-01068A



Label 12: 382-01004A



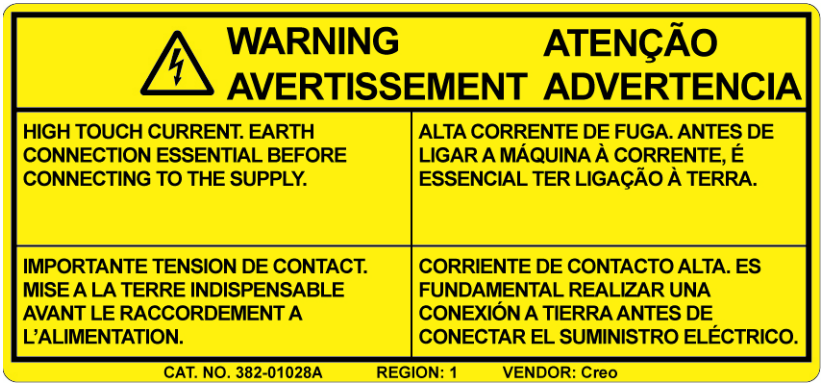
Label 21



Label 15: 382-00968A



Label 16: 382-01016A



Label 19: 382-01028A



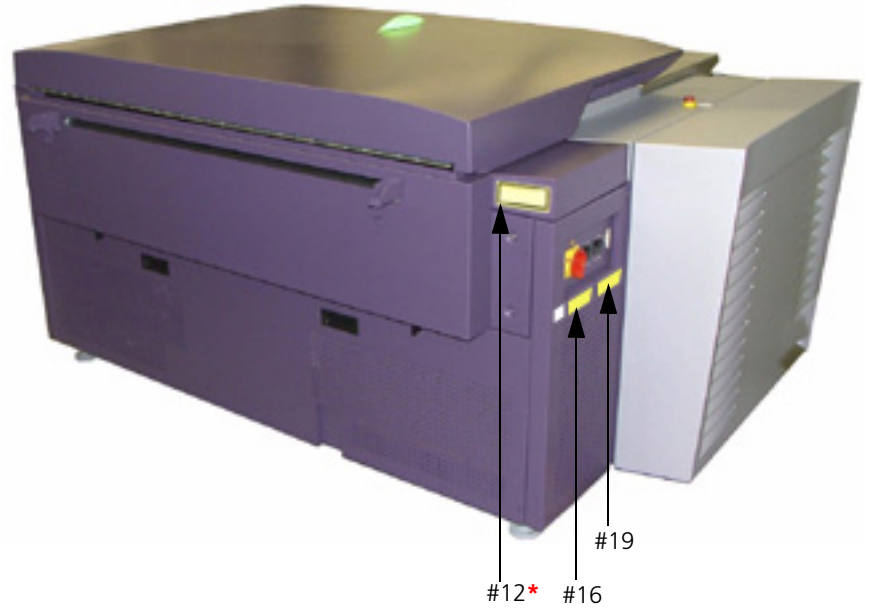
Part number 374A9C009



Part number 374A7B951
This label warns about electrical hazards.

Magnus 800 Platesetter Warning Label Locations

WARNING: The operator is forbidden to dismantle any panel or cover that require a tool to do so.



* Label #12 may be replaced with label #21

Figure 12: Rear view

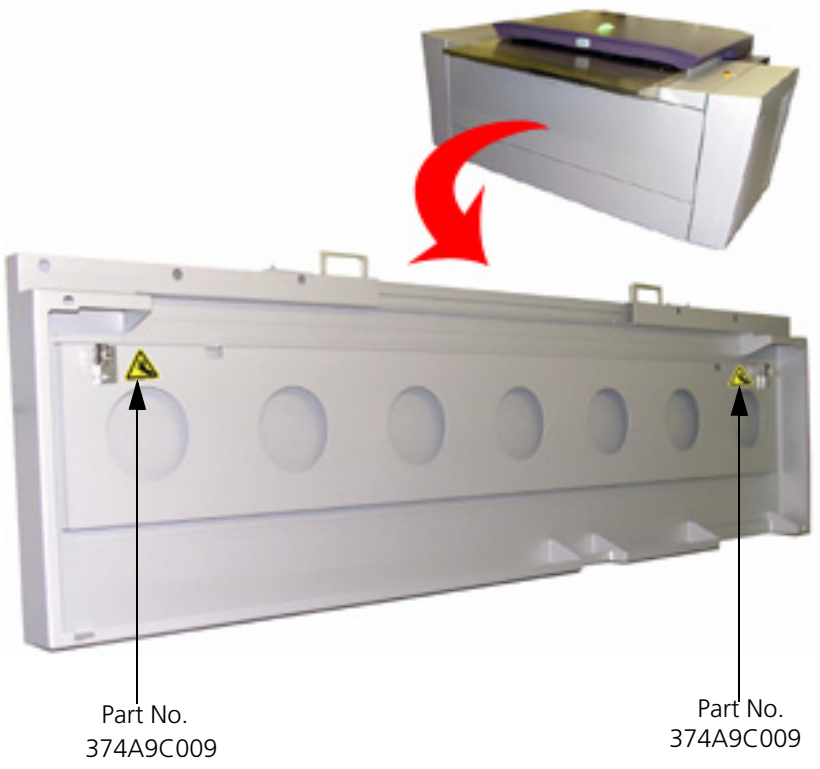


Figure 13: Reverse side of upper-front panel

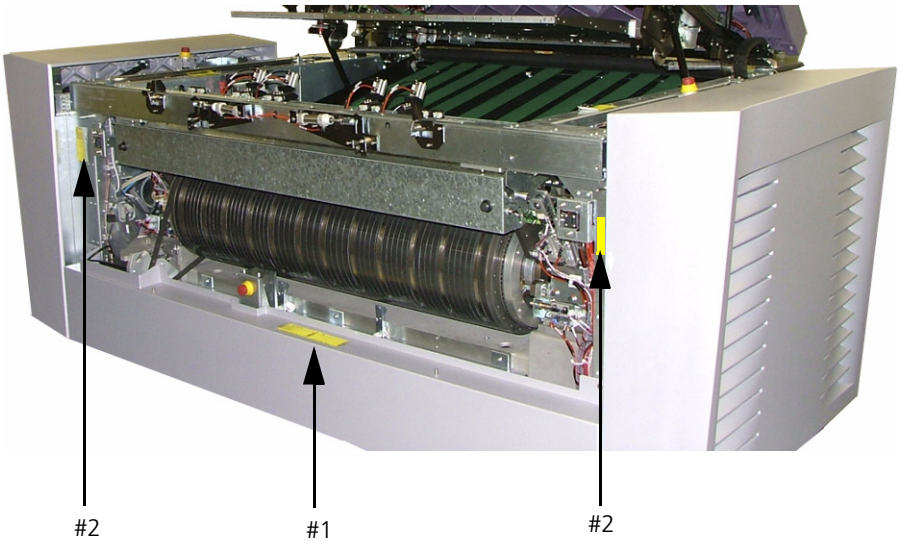


Figure 14: Lower-front view with hood and loading platform raised

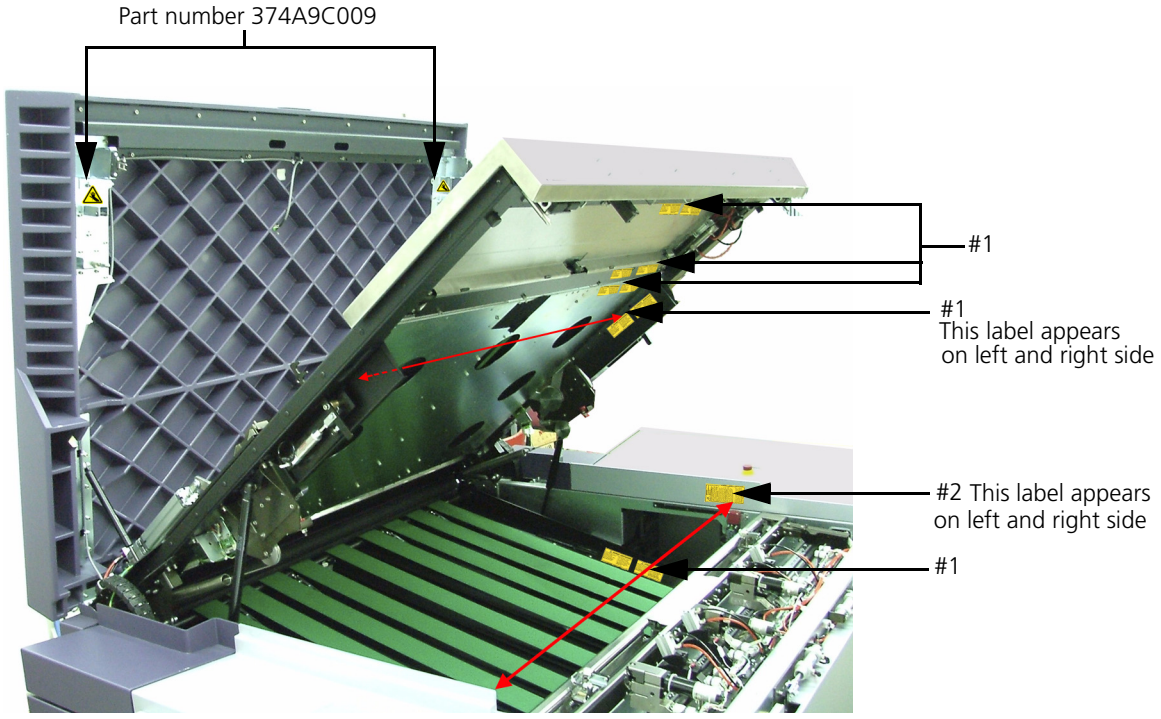


Figure 15: Upper-front view with hood and loading platform raised

Drum Safety Precautions

The *Magnus* 800 platesetter contains a drum that revolves inside the platesetter. The plates are loaded, wrapped onto the drum, exposed and unloaded.

The drum normally rotates up to 550 revolutions per minute. If an object hits the rotating drum, the object may get dislodged inside the platesetter and cause damage (including damage to the safety system and laser thermal head), or harm the protective enclosure.

The hood is opened in *Magnus* 800 Controller. This activates a time-out enabling the drum to stop. The hood opens only after the drum is nearly stationary.



WARNING: If after the hood is unlocked, and it takes more than 3 seconds for the drum to become completely stationary, the machine must be repaired. Turn off the machine and call your service engineer.

Since serious personal injury to the operator, service engineer or anyone in the vicinity may occur by the revolving drum, the following precautions must be followed:



WARNING: Do not insert your fingers or hands anywhere near the drum, as they may get caught in the narrow gaps in the drum area!



WARNING: Be sure not to leave any object, tool or part inside or on the platesetter enclosure. If an object gets lodged, it may cause damage to the platesetter safety systems and endanger user and service personnel.



WARNING: You are forbidden, under any circumstances, to defeat any interlock switch, or to activate an interlock defeater!



WARNING: If the service engineer has activated any interlock defeaters, and the hood or upper front panel is open, do not stand at any distance in front of the platesetter. Do not touch any moving part while it is in motion.



CAUTION: If you need to raise the hood or the upper front panel to release a stuck plate, or perform other maintenance, remove any piece of clothing or object that may get caught in the drum or other parts. Remove ties, roll up long sleeves, remove jewelry and gather long hair.

Universal Debris Removal Cabinet (UDRC)

The UDRC connected to the platesetter is a part of the *Magnus* 800 configuration. The UDRC contains a filtering device that extracts dust, fumes, contaminants and solvent vapors that appear within the platesetter during normal operation and need to be removed.

The filter may be replaced only by the service engineer!

WARNING: The filtering device has been constructed according to recognized technical safety regulations. Nevertheless, danger to life of the user or third parties or damage to property can occur if the filter is not handled properly.

Fluid Cooling System

The platesetter is equipped with a fluid cooling system which cools the laser Thermal Head. The system uses a water based coolant. The coolant system has no user serviceable parts. The fluid cooling system is sealed and no coolant leakage should occur. If coolant leakage does occur, shut off the platesetter and call your service engineer.

DANGER: Electrical shock hazard and fire hazard if the cooling system leaks and the platesetter is not shut off.

Cooling System Air Filter

The cooling system air filter is located behind the rear lower panel (see *Figure 11*).

CAUTION: The parts behind the lower-rear panel may be hot to touch.

CAUTION: It is ergonomically advisable to remove the lower-rear panel by its handles.

Noise Emission Levels

The noise emission levels for a *Magnus* 800 platesetter, recorded at the manufacturing plant, did not exceed 70 dBA.

Status Light Board

The status light board includes light emitting diodes that are hazardous to the eye if viewed without the protection of the status light cover. If the cover is broken or damaged, shut off the platesetter and call your service engineer.



WARNING: Class 3R LED light when open. Avoid direct light exposure.

Handling Plates

The edges of the plates are sharp. Improper handling can result in cuts to the hands.



CAUTION: It is recommended to wear gloves when handling plates.



CAUTION: Only lift an amount of plates within your physical capability. Observe standard precautions for lifting heavy objects.

When the platesetter is ready to expose, the plate is automatically loaded. After exposure, the plate is automatically unloaded from the plate exit at the rear side.



WARNING: Due to the fact that the plate is automatically unloaded from the plate exit, make sure not to stand too close to this exit.

Removing Stuck Plates

Special precautions are required when removing a plate that became stuck inside the platesetter.



DANGER: The plates have extremely sharp edges and can cause serious injury to both body and eyes. When raising or lowering the hood, the loading platform, the unloading platform, or removing a panel to gain access to a stuck plate, make sure to identify the plate's location and be careful not to sustain an injury.



WARNING: Before removing a plate, remove objects such as ties and jewelry, or clothing that may become caught by the plate's sharp edges, the drum, or other parts. Fold long sleeves and gather long hair.

It is recommended to release the entire plate as one piece; as opposed to cutting it into pieces.

Drum Vacuum Holes

The drum vacuum holes invariably fill up with debris and dirt. In order for the vacuum to be effective, it is essential that the holes remain unblocked and dirt-free. Therefore, for cleaning purposes only, Kodak provides the operator with a specially designed drum holes kit (part number 690-00127A). Only use the tools in the drum holes kit for cleaning the drum vacuum holes. The operator is strictly forbidden to use of any other tools.

Electrical and Pneumatic Connections

The user is forbidden to change or alter any of the electrical and pneumatic connections to the platesetter. For example, the electric plug, the air regulator, or the pneumatic air filter.



WARNING: Do not change the power supply installed by the service engineer. Do not alter any electric wiring. Do not alter the pneumatic tubes.

Lithium Battery

The *Magnus* 800 Controller computer contains a lithium battery. The battery cannot be replaced by the user. Only qualified service personnel are allowed to replace it.

WARNING: Danger of explosion if battery is incorrectly replaced.

Cable Covers

During the installation procedure, Kodak personnel install cable covers to shield high voltage cables. The cable covers must remain intact. It is forbidden to remove any cable covers that would otherwise expose high voltage cables.



End-of-Life

An end-of-life *Magnus* 800 platesetter may only be dismantled by authorized service personnel.

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