Quick Start Guide

English

Lotem 800 Family

399Z52565C

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4558302	5283140	5420722	5615282	5818498	6003442	6158345
4743091	5291273	5459505	5625766	5854883	6014471	6159659
4992864	5296935	5473733	5636330	5861904	6016752	6164637
5049901	5313278	5481379	5649220	5861992	6031932	6180325
5079721	5323248	5488906	5650076	5864651	6043865	6181362
5103407	5325217	5497252	5652804	5875288	6060208	6181439
5111308	5331439	5508828	5691823	5894342	6063528	6186068
5113249	5333064	5509561	5691828	5900981	6063546	6189452
5122871	5339176	5517359	5696393	5934196	6072518	6191882
5124547	5343059	5519852	5699174	5942137	6090529	6204874
5132723	5355446	5526143	5699740	5946426	6096461	6208369
5150225	5359451	5532728	5708736	5947028	6098544	6252522
5153769	5359458	5561691	5713287	5958647	6107011	6260482
5155782	5367360	5568595	5739819	5966504	6112663	
5157516	5367388	5576754	5742743	5969872	6115056	
5208818	5384648	5579115	5764381	5973801	6121996	
5208888	5384899	5592309	5771794	5986819	6130702	
5247174	5412491	5594556	5785309	5995475	6134393	

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Who Should Use This Manual

The *Lotem 800 Family Quick Start Guide* provides you with the basic information you need to begin production with the platesetters in the Lotem 800 family, which includes the Lotem 800 S_Speed, Lotem 800 F_Speed, and Lotem 800 GTO. This guide also describes the PC controller application and the procedures that you will perform when operating the platesetter. This guide includes the following:

- Introduction to Lotem 800 platesetter.
- PC controller user interface - menus and dialog boxes you'll be using.
- Plate handling - defining your plates and how to load plates into the platesetter.
- Periodic maintenance procedures that you'll be performing.

Part of your CTP workflow is performed from the Brisque workstation. The Brisque part of your workflow is described in the *Brisque to Lotem Family Connectivity User Guide, 399Z3R084.*

For a complete description of the Brisque functionality, see *Brisque User Guide version 4.0*:
Part 1 Production Tools 399Z50677
Part 2 Preparing Files for Output 399Z1R388
Part 3 Working with Imposition Jobs 399Z1R389
Part 4 Output Operations 399Z1R390

The **safety precautions** that must be followed when using the Lotem 800 platesetter are detailed in a separate document. See *Lotem 800 Family Safety Precautions for User, 399Z1R93.*

Conventions Used in This Manual

This section describes the terminology and symbols used in this manual.

Terminology

Clear	Place the mouse pointer over the check box for the specified option, and click the left mouse button so that the X or check mark is removed from the check box.
Click	Place the mouse pointer over the specified option or button and press and release the left mouse button.
Double-click	Place the mouse pointer over the specified option or button and quickly press and release the left mouse button twice.
Drag	Hold down the left mouse button while moving the mouse and release the button.
Enter	Type the information and press the ENTER or RETURN key.
Point	Position the mouse pointer over a submenu or menu command. For example, point to the **File** menu.
Press	Press the specified key or key combination on your keyboard, for example, press CTRL+ALT+DEL.
Right-click	Place the mouse pointer over an area of the application window, and then press and release the right mouse button to display the shortcut menu. For more information about using shortcut menus, see your Windows documentation.

Select	Place the mouse pointer over the check box for the specified option, then click the left mouse button so that an X or check mark appears in the check box. Or: Place the mouse pointer over the specified box or button, and then click the left mouse button.
Type	Type the information. Do not press the ENTER or RETURN key.

Symbols



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.



Important: This symbol tells you about things that may cause process delays or reduce functionality, reliability, or quality.



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



Tip: This symbol draws attention to information that can help you perform a task more quickly or easily.



The reference symbol tells you that related information on the topic is available in another Creo document.

1 Introduction

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Lotem 800 Overview

The Lotem 800 family of thermal imaging platesetters represents state-of-the-art technology within all operational systems, and features a technological breakthrough in the form of a multi-beam, variable resolution thermal imaging head. Within the footprint of a typical 8-page imagesetter, the Lotem 800 platesetter family (with optional dual cassette or multiple cassette) provides full automation including slip sheet removal, customized plate punching, and plate loading/unloading. It has a fast rotating external drum and a thermal imaging head.

Individual beams are precisely positioned using a self calibrating alignment configuration, and this allows for continuously variable imaging resolutions. A significant and unique feature of the Lotem 800 platesetter family is dynamic drum balancing which guarantees rotational stability of the external drum.

To allow for variable solution imaging, drum rotation speed is programmed to vary proportionally with the output resolution. This particular feature is unique to the Lotem 800 family, and ensures optimized imaging speeds based on output parameters.

The Lotem 800 family is available with the following options:

- Speed - S_Speed and F_Speed. Lotem 800 S_Speed with an array of 24 laser beams; Lotem 800 F_Speed with an array of 48 laser beams.



Note: The differences between the S_Speed and F_Speed options are transparent to the user and are insignificant when using the application. This quick start guide applies to both options.

- Half-tone proofing - the Lotem 800 with Spectrum is a dual purpose machine that functions as a platesetter and as a halftone proofer, and operates only with the dual loading cassette (DLC). For details, please refer to *Lotem 800 with Spectrum User Guide, 399Z1R172*.
- Cassette options: single cassette, dual loading cassette (DLC), multiple cassette unit (MCU).

  The cassette option is significant when using the platesetter since it affects the user interface and plate handling procedures. This quick start guide focuses on the single cassette option. For a detailed description of the DLC, please refer to *DLC for Lotem 800 User Guide, 399Z1R080*. For a detailed description of the MCU, please refer to *MCU for Lotem 800 User Guide, 399Z1R092*.

For all above options, the plate size ranges from 650 x 490 mm (25.6 x 19.3 inch) to 1130 x 905 mm (44.5 x 35.6 inch).

In addition, the **GTO** option supports GTO plates and is available in the above mentioned configurations. GTO plates are smaller than the conventional plates supported by the Lotem 800. With the GTO option, the platesetter can support a minimum plate size of 457 x 381 mm (17.9 x 15 inch); maximum size is the same as for the other options.

The Lotem 800 platesetter front end is the Brisque software version 4. In addition to standard Brisque Impose features, special features for CTP users, such as fast plate remake and back/front preview were added. All standard digital file formats are supported, including PostScript™, EPSF, PDF™, TIFF-IT, and CT/LW files. The Brisque CTP functionality is described in the *Brisque to Lotem Family Connectivity User Guide, 399Z3R084*.

Platesetter Front View

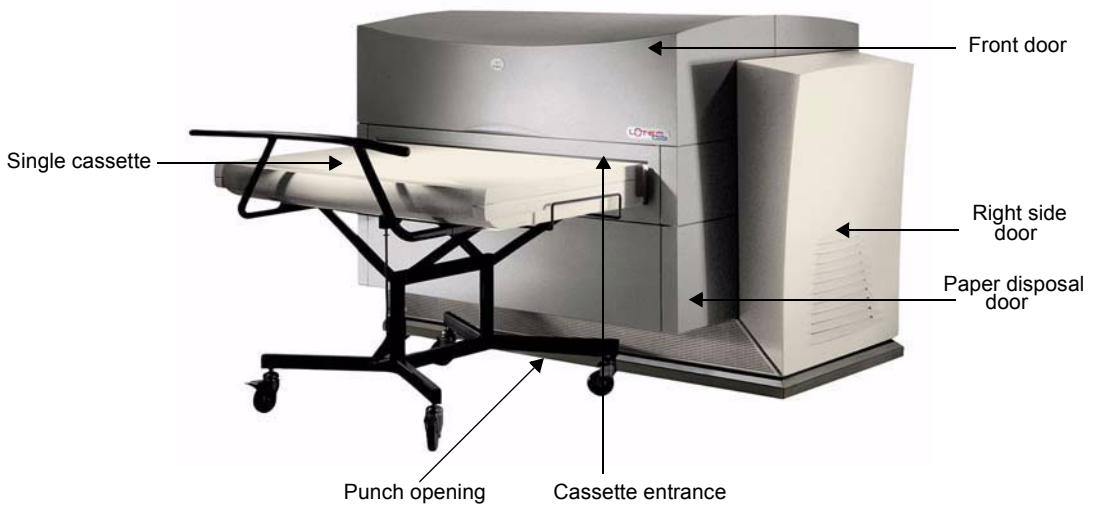


Figure 1: Lotem 800 platesetter front view

Single cassette contains the plates to be exposed.

Cassette entrance where plate is loaded from the cassette into the platesetter.

Front door – door opening is controlled from PC controller monitor.

Right side door – access Electronic box and PC controller.

Paper disposal door – access the Paper disposal unit and remove the interleaf paper (an identical door is located on the left side).

Punch opening – access the Punch container and remove the punch slugs. The opening is located below the front panel and is accessed from the bottom of the machine.

Platesetter Rear View

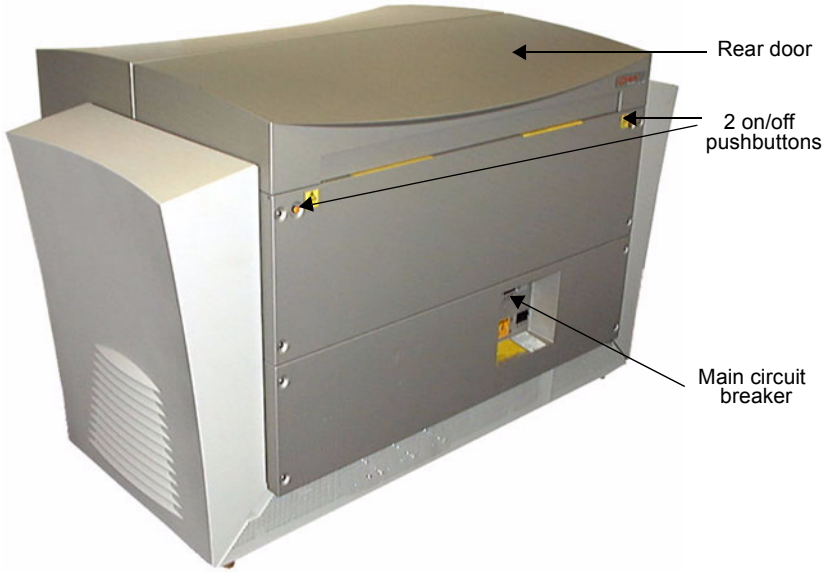


Figure 2: Lotem 800 platesetter rear view

Rear door – opening is controlled from PC controller monitor.

Plate exit – through which plates are unloaded after processing.

On/Off pushbuttons – to power up and shut down the platesetter.

Main circuit breaker – before you power on the platesetter, make sure main circuit breaker is *on* (set to "1"). For total disconnection from the mains supply, set the main circuit breaker to "0".

Typical Customer Site Configuration

A typical customer site configuration with the Lotem 800 platesetter is shown below.

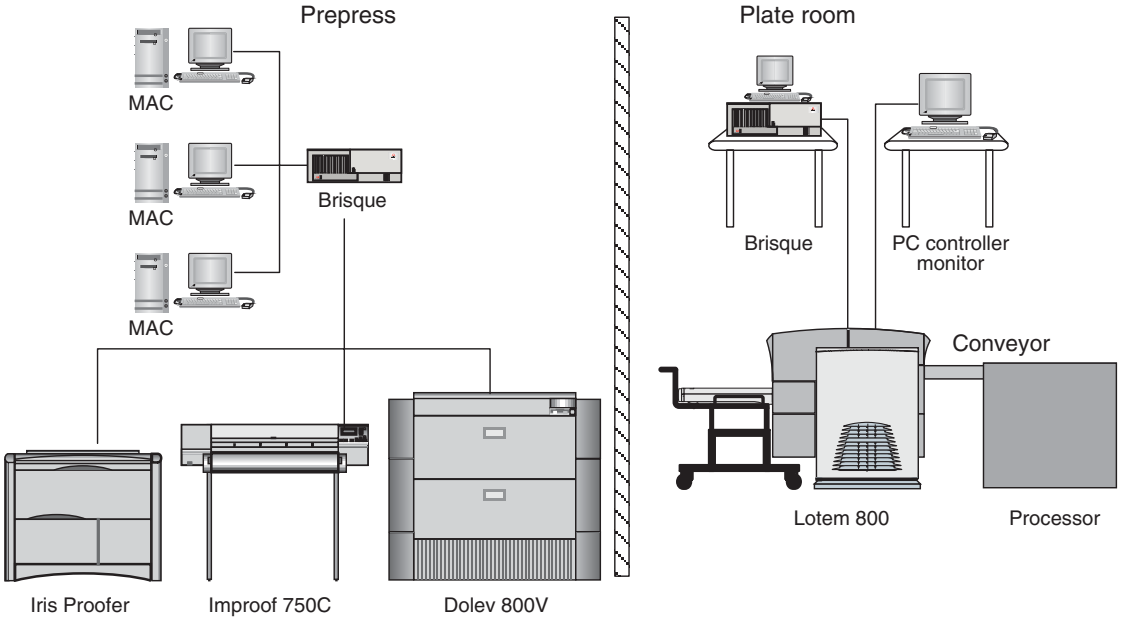


Figure 3: Typical configuration at customer site

The platesetter room may include:

- Lotem 800 platesetter
- PC controller monitor; the user interface of the PC controller that controls the platesetter operation.
- Brisque; jobs for the Lotem 800 platesetter are processed by the Brisque.
- Conveyor; moves the unloaded plates to the Processor.
- Processor; not supplied by Creo and intended for plates that need processing after expose.

Note: The Plate stacker (for collecting unloaded plates) and Pre-heat oven (for plates that require heating) are not supplied by Creo and not shown in the figure.

Data and Communication Flow

Job data is sent from the Brisque, which is connected to the PC controller. The figure below shows the data and communication flow between the Brisque and the platesetter.

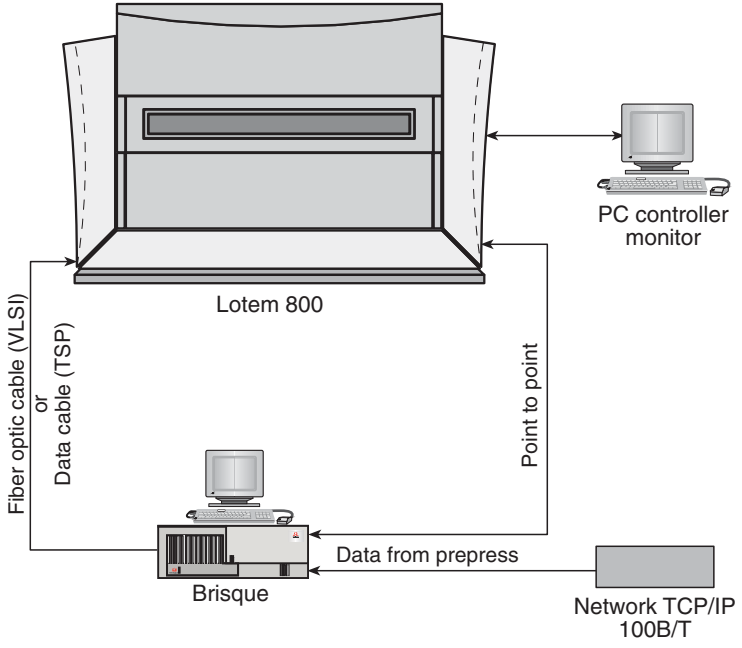


Figure 4: Communication & data flow between platesetter & Brisque

Platesetter Power Up/Shutdown

To power up the Lotem 800 platesetter:

1. Check the air pressure gauge (see figure below) in the air pressure unit. Make sure the air pressure is 6 ATM (88 psi).



Figure 5: Air Pressure unit

2. Make sure the **Main circuit breaker** is **on**, that is, set to "1" (see *Lotem 800 platesetter rear view on page 5*).
3. At the rear panel, press **out** the two (2) **On/Off power** pushbuttons so that they are both lit (see *Lotem 800 platesetter rear view on page 5*).
4. Press the **On/Off** pushbutton of the PC controller monitor.



Lotem 800

5. Wait until the Windows operating system comes up. Then double-click the **Lotem 800** icon on the PC desktop.
6. Power on the Brisque (please refer to *Brisque to Lotem Family Connectivity User Guide, 399Z3R084*).



To turn off the Lotem 800 platesetter:

1. At the PC controller main indow, click **Routine Functions**.
2. From the Routine Functions menu, click **Shut Down**.
3. In the Confirm message, click **Shut Down**.



4. From the Start menu of your Windows, click **Shut Down** to shut down your computer.
5. When the message: `It is safe to turn off your computer appears`, press the **On/Off power** pushbutton at the platesetter rear panel.

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PC Controller User Interface

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Overview

The PC controller monitor is your interface with the Lotem 800 platesetter; it monitors the platesetter operation, is constantly updated with the machine status, and provides machine information. The platesetter is controlled by the PC controller located inside the platesetter; the monitor resides on a nearby table, as shown in *Typical configuration at customer site on page 6*. The job data is sent from the Brisque, that is connected to the PC controller (as shown in *Communication & data flow between platesetter & Brisque on page 7*).



Figure 6: PC controller monitor

Note: The platesetter image in the above figure shows the Dual Loading Cassette (DLC).

User Interface

The PC controller monitor is your basic working area where the application indicators, buttons, popup menus and dialog boxes appear.

The workflow-oriented platesetter user interface is intuitively designed, and minimal computer knowledge is required. The following features support this design:

- Color-coded **Status** indicator indicates the machine status. For example, if a problem occurs while you are away from the monitor checking exposed plates, the problem indications on the screen are visible from a distance.
- Large interface indicators can be seen from a distance, so you can be alerted even when working away from the monitor.
- Monitor screen is divided into functional areas, as shown in the Main window figure below.

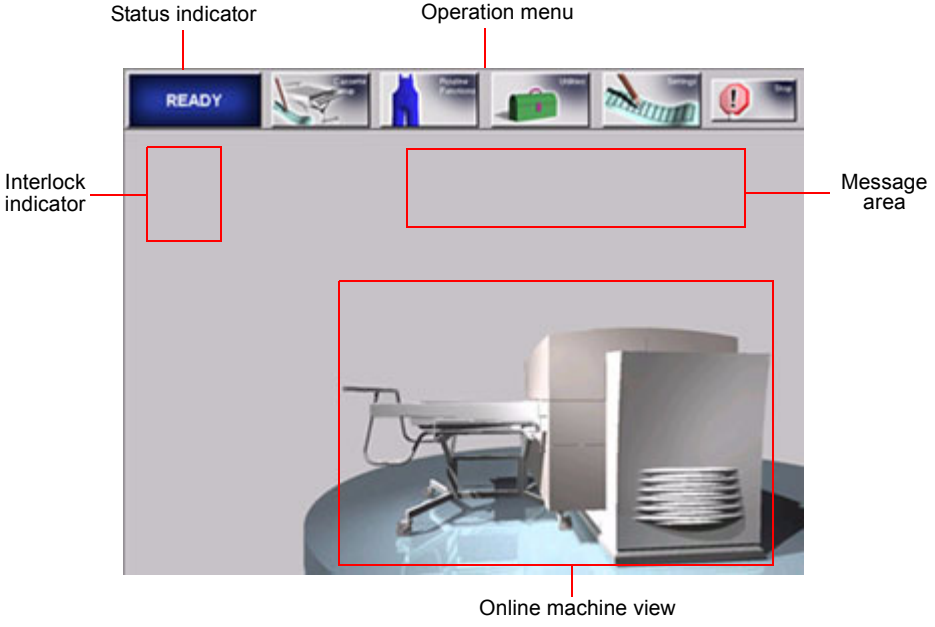


Figure 7: Main window areas

Note: The platesetter image in the above figure shows the Dual Loading Cassette (DLC).

Status Indicator

The **Status** indicator is fairly large and color-coded for easy identification. The indicator updates you on machine status even when you are performing tasks away from the monitor. For example, you can easily see when the **Status** indicator changes to **Attention**.



Start up (green) – machine is performing start up. All machine components go to **Home** position.



Off-line (gray) – like **Ready**, but you cannot expose plates or run calibration tests; all other functions are available. After **Start up** and **Stop**, the machine automatically goes to **Off-line**. Click **On-Line** button on the Routine Functions menu to set machine to **Ready**.



Ready (blue) – the machine is ready for operation and in **On-Line** mode; you may load a plate and begin the expose job.



Working (green) – the machine is busy exposing the current job. While the machine is working, you can send additional jobs from the Brisque.



Attention (red) – the machine has stopped working and requires your intervention, or has encountered a problem that requires servicing. A message appears in the message area and normal operation resumes only after the problem is solved.



Service (purple) – a door is open or a panel was removed (the **Interlock** indicator appears on the Main window) or the machine is being serviced. If a door is open, the Online machine view shows the open door.

Operation Menu

The Operation menu to the right of the **Status** indicator is used to access all the operational options required when working with the platesetter PC controller application. The Operation menu includes the **Cassette Setup, Routine Functions, Utilities** and **Preferences** buttons used to open the relevant menus and the **Stop** button, as described below.

Cassette Setup Menu



Click the **Cassette Setup** button to open the Cassette Setup menu. The menu options control the operation of the single cassette. For example, when you need to load/unload plates. The menu options are described below.

Release Cassette



Used when loading plates in the cassette. For details, see *Loading Plates in Single Cassette on page 27*.

Release Tray (not available for single cassette)

Inactive for single cassette. This option is relevant only for the dual loading cassette (DLC).

Routine Functions Menu

Click the **Routine Functions** button to open the Routine Functions menu. The menu includes operations that are routinely performed by the user when working with the machine, as described below.

Open Front Door



1. Click the button to open the front door.
2. The door locking mechanism is released for 30 seconds. During these 30 seconds push the door slightly inward.
3. The door releases. Lift the door to open it completely.

When the front door is open, the safety interlocks are activated. As a result, machine systems such as drum motor and laser system do not operate. The machine is in **Service** mode (**Status** indicator is purple) and the **Interlock** indicator appears below the **Status** indicator with the name of the open door.

Note: You can interactively open the door by clicking on the front door in the Online machine view.

Open Rear Door



The rear door opening is similar to opening the front door, see above.

Loading...



Click **Loading...** to access the loading system options, including **Unload Media** and **Restart Plate State**, see below.

Unload Media



Available **only when** there is media (that is, a plate) on the drum and the machine is **not working**. In normal operation this option is not used since media unloading is automatic. However, if the media was not loaded properly or the expose process was not completed, you can manually initiate media unloading by clicking **Unload Media**.

Restart Plate State



Click **Restart Plate State** when an error message occurs and you need to reset the machine status. Verify that there are no plates on the drum before you **Restart Plate State**.

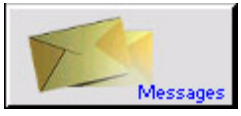
Offline Cassette



For **single cassette**, the **Offline Cassette** option in the Rountine Functions menu is relevant only if you have more than one cassette. It enables you to define the plates of the cassette that is currently not is use. Click **Offline Cassette** to open the Offline Cassette dialog box. See *Define Offline Cassette on page 33*.

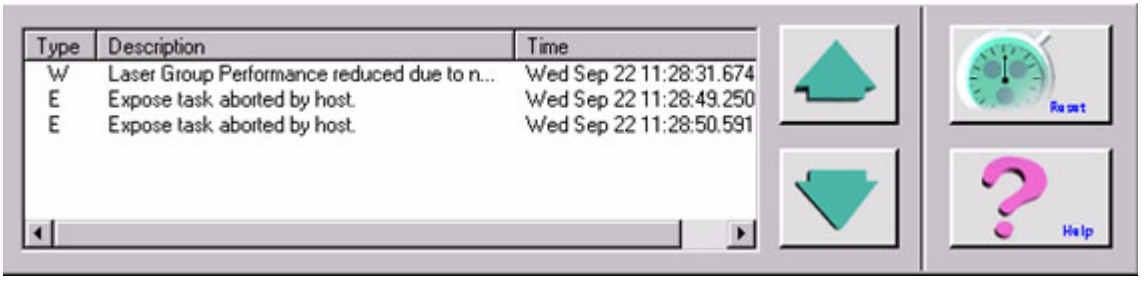
Note: The platesetter is supplied with only one cassette, but you can purchase additional ones.

Messages



Click **Messages** to open the Message dialog box. When problems are encountered during machine operation, error messages are listed in the Message dialog box. The dialog box automatically opens whenever an error is recorded and the current error message is highlighted. All error messages recorded during the current run are listed.

Note: To view the full message, double-click the vertical line in Description heading or manually resize the column.



The Message dialog box has four buttons: **Up/Down** arrows for scrolling to previous/next messages; **Reset** to reset the machine **after** solving the problem that caused the error message (see *Reset Machine*, on next page); **Help ?** to launch the application online help system.

Reset Machine



Click this button when there is a need to reset the machine. For example, a problem that caused the machine to stop has been solved. The system prompts you to confirm the reset. The machine then resets to **Ready, Off-line** or **Working** status, depending on the status prior to the reset.

Note: Reset machine on the Routine Functions menu is the same as the **Reset** button in the Message dialog box.

On-line



When the **Status** indicator is **Off-line**, you cannot expose plates.
To expose plates, click **On Line** and wait until the machine resets to **Ready**.

Shut Down



Use this option for normal machine shutdown. See *Platesetter Power Up/ Shutdown on page 8*.

Utilities Menu

Click the **Utilities** button to open the Utilities menu. The menu options are described below.

Expose Params



The Expose Info window lists expose-related machine parameters. You may open this window anytime before or during exposure.

Log Files



Four windows open: Machine task list, two Log message windows (for service usage) and Expose queue list (data sent from the Brisque).

Machine Info



PC controller software version.

Hardware



Lists the machine hardware parts.

Setup Tables



The Plates Setup tables list the Intensity and Speed values for each plate. You can change the values. For example, in case of under exposure, you can increase Intensity or Speed for the Resolution value used in the expose.

Diagnostics

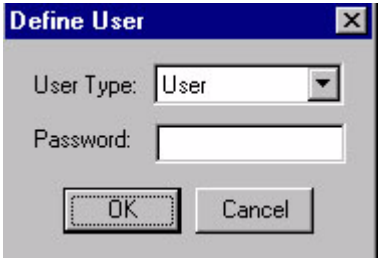


Not yet implemented.

Users



Defines the type of user (some application settings and preferences are available only for service and R&D). Click **Users** to open the Define User dialog box, and choose user type – user, service or R&D. Then enter your password and click **OK**.



Settings Menu

Click the **Setting** button to open the Settings menu. The menu options are described below.

Media Definitions



Media definitions is used to define the type of plates you will be using. (the plate must be defined before it is loaded). This option is also used to edit the parameters of existing plates or to delete plates you will no longer use. For details see *Media Definition on page 24*.

Cassette Configuration



Cassette Configuration is available for all new single cassettes and for all dual loading cassettes. This option enables the platesetter to automatically recognize the cassette when it is inserted. In addition, you can assign user-defined names to the cassettes. These names will replace the default system names. For details, see *Inserting Cassette on page 30*.

Note: The Cassette Configuration dialog box will automatically open when the cassette is used for the first time. However, you can always open the dialog box by selecting **Cassette Configuration** from the Settings menu.

Preferences



Preferences is used to define various settings. In the Preferences dialog box, you can set the following:

Units – choose cm or inch to set units of measurement for all measurements, such as plate dimensions and thickness.

Language – only **English** is implemented.

Stop Button



The **Stop** button on Operation menu is used in case of an emergency stop. The drum and all the machine operations are immediately stopped, and the plate remains in its current position.

Online Machine View

The Online machine view shows the platesetter during operation; it enables you to see a simulation of machine operation. The main features are described below.

Operational stage

When the machine is in **Working** status, you can identify the current operational stage. You can see the plate loading onto the drum and the rotating drum. The remaining process time is indicated on the Progress indicator.

Cassette content



The cassette content - plate type and quantity - is always displayed above the cassette in the Online machine view.

Interlock indication

When a door is open or a panel is removed, a safety interlock is activated. The **Status** indicator shows **Service** (purple) and the **Interlock** indicator appears below it with the name of the activated safety interlock. For example, a door is open, a panel is removed or a laser interlock is activated.

For details on safety interlocks see *Lotem 800 Family Safety Precautions for User, 399Z1R93*.

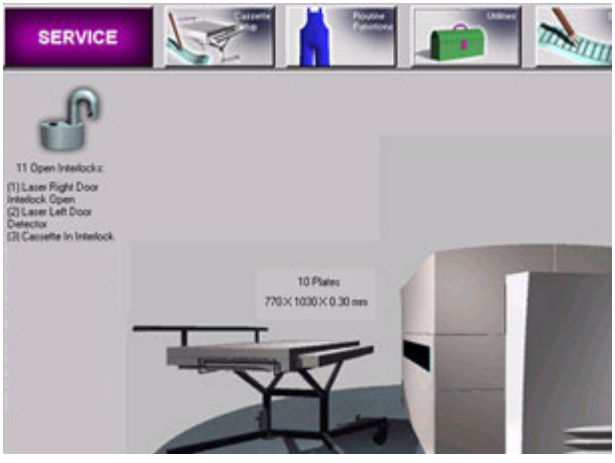


Figure 8: Main window with Service status, interlock indicator & cassette released

Attention

When the machine status is **Attention**, the Online machine view may give some indication as to the cause of the problem. For example, if a plate is stuck inside the machine.

Perform interactive operations

You can interactively release the cassette from the platesetter by clicking on the cassette. You can also open the front or rear door by clicking on the relevant door on the Online machine view. (This is the same as using **Open Front door** and **Open Rear door** on the Routine Functions menu.)

Note: When you move the pointer on the door or cassette it becomes green. See figure below.



Figure 9: Main screen with front door green when the pointer moves on it

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Media Definition

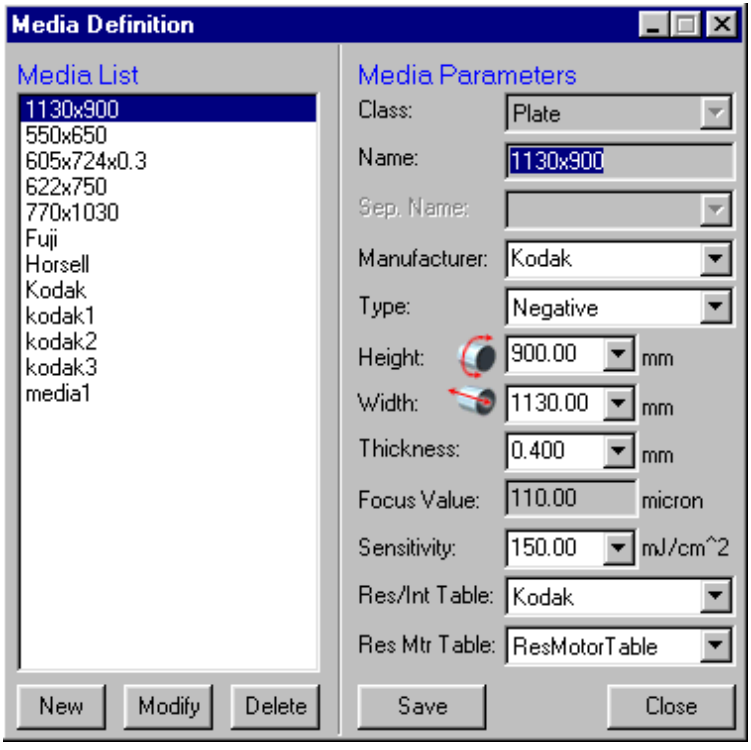
The plates exposed by the Lotem 800 platesetters must be defined before the plates are loaded into the platesetter. Plate specifications are as follows:

Size	Minimum size	Maximum size	
Lotem 800	650 x 490 mm	1130 x 905 mm	
GTO option	457 x 381 mm	1130 x 905 mm	
Quantity	**0.15 mm plates**	**0.2 mm plates**	**0.3 mm plates**
Single cassette	200	130	100

To define plates:



1. Click **Media Definitions** on the Settings menu. Please note that plates and other media that have been defined are listed under the Media List.



Note: Sep Name, Red, Green and Blue fields are not relevant for plates.

Note: The above plate names are only examples. The platesetter supports plates of various specifications/vendors, and Creo does not promote specific companies.

2. Select **Plate** from the Class pop-up menu (other options are irrelevant when exposing plates).
3. Click **New**.
4. Enter plate name in the **Name** box (such as, plate type or user name).
5. Select the **Manufacturer** from the pop-up list of main plate suppliers or enter the manufacturer name.
6. Select **Negative** or **Positive** from the Type pop-up list. This is important for the Exposure type. For example, for a positive plate (that is, a negative working plate), select **Positive** and perform a negative exposure.
7. Select the plate **Height** from the pop-up list or enter a value in mm.
8. Select the plate **Width** from the pop-up list or enter a value in mm.
9. Enter plate **Thickness**, as listed on the plate packaging. Range: 0.15 - 0.3 mm. It is recommended to verify plate thickness with a micrometer.
10. Enter plate **Sensitivity** as supplied by the plate vendor. This parameter is important for initial adjustment of the optic system.
11. Select the **Res. Int. Table** for your plate from the pop-up list.
12. Click **Save** to save the new plate. New plate name will appear in Media List.
13. Repeat the above procedure to define all the plates you plan to use.



Note: The plate names will also appear in the Current Cassette dialog box on page 32 and Offline Cassette dialog box on page 34.

To edit the parameters of existing plates:

1. Select the plate you want to edit from the Media List, and click **Modify**. The selected plate parameters appear under Media Parameters.
2. You can edit all plate parameters, except the plate **Name** and **Type**.
3. Click **Save** to save the new parameters.
4. To delete a plate from the Media List, select the plate and click **Delete**.



Tip: To change the plate name, you must first **Delete** the plate and then redefine it using **New**.

Using the Single Cassette

Loading plates into the single cassette requires:

- releasing cassette from platesetter
- loading plates into cassette
- inserting cassette into platesetter.

Releasing Cassette

You need to release the cassette in the following cases:

- To add identical plates to the cassette currently in the platesetter
- To load different plates in the cassette currently in the platesetter
- To insert a new cassette.

Note: The cassette pins remain depressed whenever a cassette is not loaded, providing that both upper doors are closed and the loading system has not been moved.

1. Click **Cassette Setup** on the Main Operations menu. Then from the menu that opens, select **Release Cassette**, or:
   click on the cassette on the Online machine view. The Online machine view will then show the cassette outside the machine.



Figure 10: Main window showing the released cassette

2. The pins that lock the cassette inside the platesetter are released. You will hear a tone indicating that the cassette lock is released.
3. Go to the front of the cassette, and with your foot release the stoppers that lock the wheels of the cassette.
4. Pull out the cassette.
5. Roll the cassette to the location of the plates.

Loading Plates in Single Cassette

To load plates in the cassette (see figure on page 29):



Note: The cassette should be near the location of the plates (the plates are heavy and you want to avoid carrying them).

1. Open the two side latches of the cassette to open the cassette cover.
2. Release the three plate guides (left, right and back guide), by opening the knob of each guide.
3. If the plates to be loaded are **not the same size** as the plates previously loaded, do the following:
   push the side guides outwards toward the cassette sides. Note that when you move one side guide, the other side guide moves as well.
   Push the back guide toward the back edge of the cassette.



Note: If the new plates are the **same size** as the plates previously loaded, you need to move only the side plate guides to avoid scratching the plates.

4. To prevent scratches on the bottom plate, the bottom plate should be placed on a piece of cardboard and not directly in the cassette. If your plates are **not** packaged with a bottom protective cardboard, place a suitable piece of cardboard (same size as plates) in the cassette.
5. Place the plates, emulsion side down, inside the cassette on the bottom cardboard.



Note: You should wear protective gloves to protect your hands from the sharp plate edges and to avoid leaving fingerprints on the plates.

6. If you are loading several packages of plates, make sure there is no cardboard between the different packages (cardboard is required **only** under the bottom plate in the cassette).

7. Move the left or right plate guide toward the plates, until the rounded tip of the side guide touches the plate edge (this prevents the side guides from forcefully pressing against the plate). The guides automatically center the plates in the cassette (to ensure that when loaded onto the drum, the plate is aligned with drum center).



Note: If **more than 25 plates** are loaded, you should use your hands to move the plates and align them with the plate guides.

8. Move the back plate guide toward the plate edge. Make sure the guide only slightly touches the plate edge.
9. Close and tighten the knobs of the three plate guides.
10. Close the cassette cover and lock the two latches.

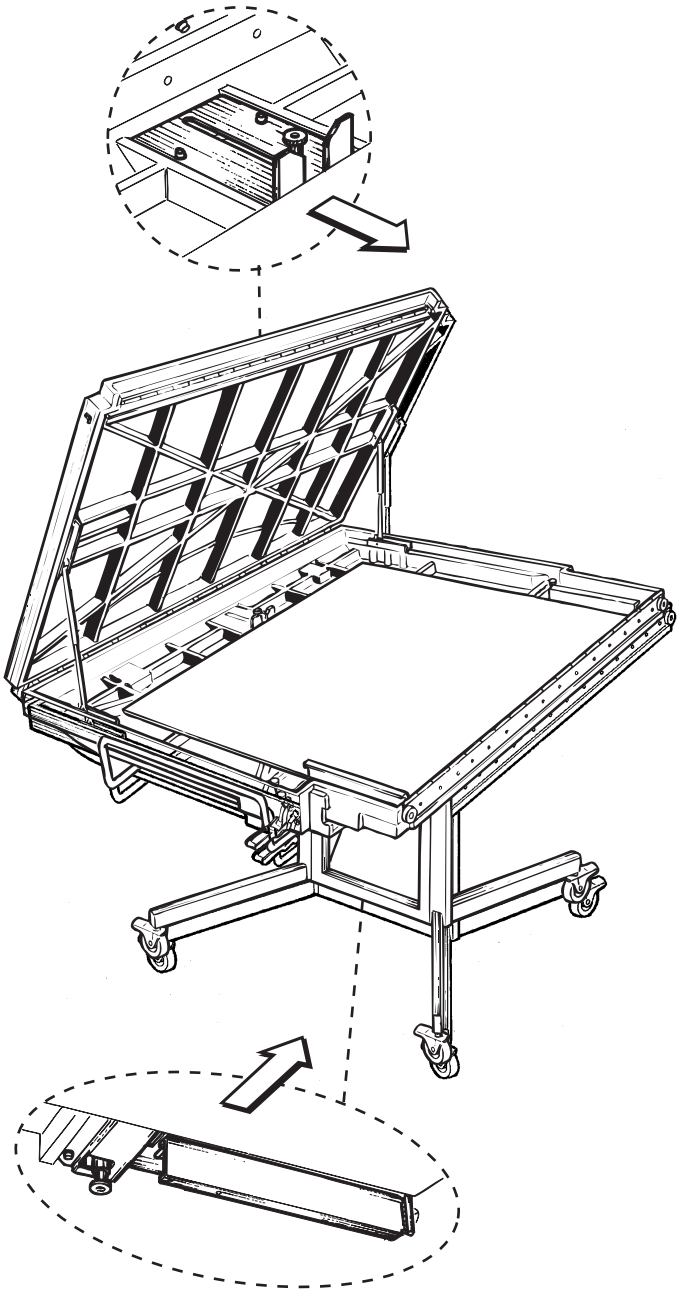


Figure 11: Loading plates in cassette

Inserting Cassette

After the plates are loaded in the cassette, the cassette is ready to be inserted into the platesetter.

1. On the Main window, make sure the cassette in the Online machine view shows the cassette **outside** the platesetter, the machine status is **Service** and the interlock indicator informs that the cassette interlock is open (see figure on page 26).



Important: This is important because you want to be certain that the pins at the cassette entrance are depressed (if the pins are up you cannot insert the cassette and you need to press the **Release Cassette** button again).

2. Roll the cassette to the front side of the platesetter, opposite the cassette entrance.
3. Rotate the cassette so that it is positioned at an angle and push one corner into the cassette entrance. Then rotate the cassette until it is parallel to the platesetter and push the other corner into the cassette entrance.

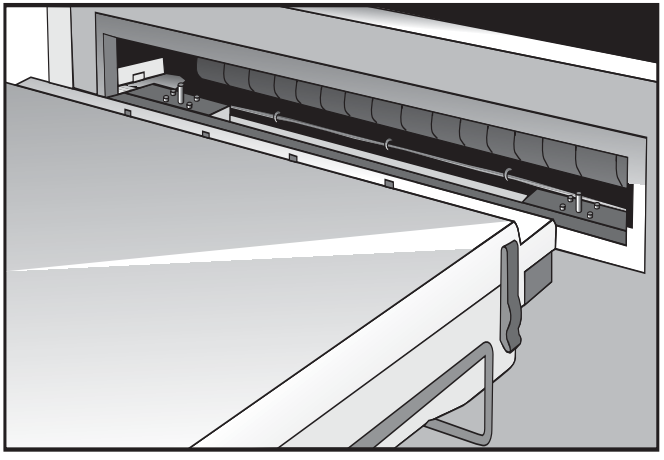


Figure 12: Inserting the cassette

4. Push the cassette into the cassette entrance until you hear that it is locked inside. Try to pull out the cassette to verify that it is properly locked. If it is not locked, push it in until it locks.

When the cassette is used for the first time:

When the cassette is used for the first time, the Cassette Configuration dialog box automatically opens, listing the cassette ID, as shown in the dialog box below.

Note: For older model cassettes, the dialog box will open with ID as N/A.

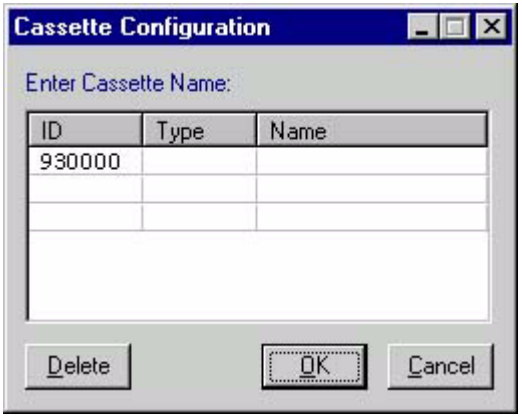


Figure 13: Cassette Configuration for cassette used for the first time

5. Select the cassette **Type** from the pop-up list. For single cassette, select **Single Load**.

Note: If you do not enter a name, the system will assign a default name.

6. Enter a cassette name of your choice in the **Name** field. See the dialog box example below.

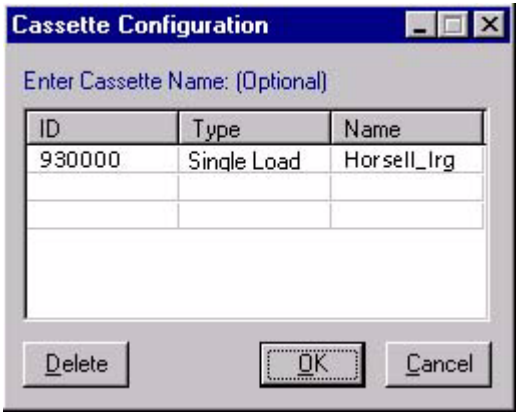


Figure 14: Cassette Configuration dialog box after defining single cassette

7. Click **OK** to confirm the dialog box setting.

The Current cassette dialog box will now open.

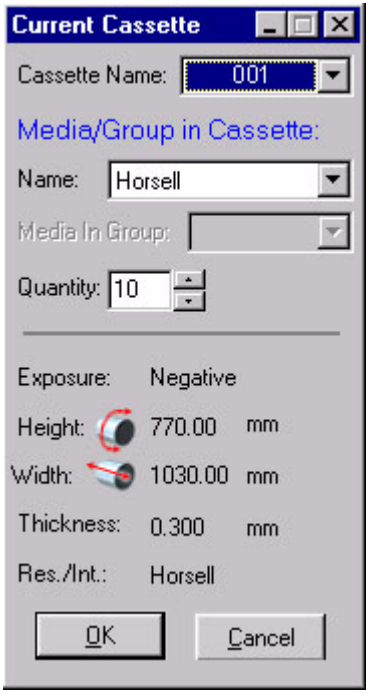


Figure 15: Current Cassette dialog box

Note: The listed plate name is only an example. Plates of various specifications and vendors are supported, and Creo does not promote specific plates.

The **Cassette Name** is automatically listed, as defined previously in the Cassette Configuration dialog box. If you used the **Offline Cassette** option, proceed to step 10. Otherwise, proceed to step 8. (**Offline Cassette** is described on page 33).

8. In the **Name** box, select your plate name from the pop-up menu. Available names are the plates defined in the Media Definition dialog box. The Pos/Neg, size, thickness, and Res/Int parameters for the selected plate are listed.
9. Enter the number of plates in the cassette in the **Quantity** box.

10. Click **OK** to confirm the Current Cassette dialog box setting. You may begin exposing the plates.



Important: After the cassette is defined in the Cassette Configuration dialog box the first time it is used, this dialog box will not open again. Instead, the Current Cassette dialog box will automatically open, as shown above.
You can also open the Cassette Configuration dialog box from the Setting menu.

Define Offline Cassette

Offline Cassette enables you to define the plates of the cassette that is currently **not in use**, and is available for all cassette configurations. The Lotem 800 is supplied with one cassette, but you can purchase additional cassettes.



Note: For single cassette, this procedure is relevant only if you have **more** than one cassette.

Defining plates before the cassette or tray are actually inserted into the machine saves operation time. While the machine is processing plates from one source (such as, another cassette), you can define the plates in another source. Later, when the second source is inserted, the Current Cassette dialog box will open with the correct plate name and quantity.

To define offline cassette:



1. Click **Offline cassette** on the Routine Functions menu. The Offline Cassette dialog box opens.

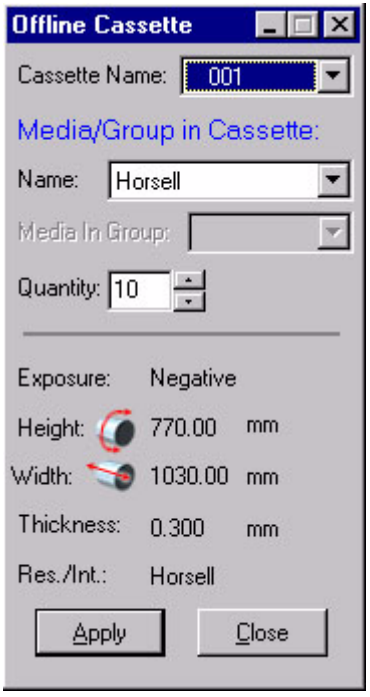


Figure 16: Offline Cassette dialog box

2. Select the **Cassette Name** from the pop-up menu. If you changed the default cassette name, the new names will be listed. Otherwise, the default names will appear.

Note: To change the default cassette names, use **Cassette Configuration** under the Preferences menu. See page 31.

3. Enter your plate name in the **Name** box. Available names are the plates defined in the Media Definition dialog box. The plate parameters will then appear for the selected plate.
4. Enter the number of plates in the cassette in the **Quantity** box.
5. Click **Apply** to confirm the dialog box setting.

When this cassette is inserted into the machine, the Current Cassette dialog box will automatically open with the above setting.

4 Maintenance

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Paper Disposal

The plates used in the Lotem 800 platesetter have interleaf paper. The paper is automatically separated from the plate when the plate is loaded into the mach-ine, and the paper is collected in the Paper disposal unit.

A sensor in the Paper disposal unit sets a counter in the PC controller that counts the number of plates loaded into the machine. The function of this counter is to alert you when the Paper disposal unit is full and must be emptied.

After 30 exposures, a message appears on the PC controller main window showing the current paper count. After 49 exposures, the message informs you that you will not be able to continue exposing after the next exposure unless you empty the Paper disposal unit.

The following indications appear when you cannot continue exposing plates until the paper is removed:



- Status indicator shows **Attention**.
- A message in the Message dialog box requests that you remove the paper.

To empty the Paper disposal unit:



Note: Do not open the Paper disposal unit while the Paper disposal motor is working.

1. Open the right or left door of the Paper disposal unit (door location is shown in the figure on page 37). The platesetter will reset to **Service** once the door is open (if it was not already in **Service**) and the Paper disposal motor interlock is activated.
2. Pull out the paper.
3. Close the door.
4. Since the machine is in **Service**, you need to reset it using **Reset** in the Message dialog box. Then click **Yes** in the Reset confirm message.



Note: After **Reset**, the paper counter resets to 0.

The machine resets to **Ready**, **Off-line** or **Working** status, depending on the status prior to the problem.



Figure 17: Paper disposal door (right side)

Punch Disposal

After the plate is centered and before it is loaded onto the drum, the plate is punched by the standard or customized punch installed in the machine. The punch slugs are collected into the Punch container, which must be periodically emptied. There is no sensor in the system that detects when the container is full, so you must periodically perform a visual check. The frequency of this check depends on the amount of work you perform.



Note: The Punch container has two sections for the left and right punch slugs; you need to check and empty each section separately.

To check the Punch container and empty it when necessary:

1. Click the **Stop** button on the Main operations menu. The drum and all the machine operations are stopped, but the plate is not released.
2. Click **Open Front door** on the Routine Functions menu, or click the front door on the Online machine view.

Opening the door activates the laser and drum interlocks. The status indicator shows **Service** (purple) and the Interlock indicator appears.

3. The front door locking mechanism is released for 30 seconds. During these 30 seconds, press the door slightly downward.
4. The door is released. Lift the door upward to open it completely.
5. At left and right sides of the machine, look inside and check the level of punch slugs in both sections of the Punch container.

6. To empty the Punch container, open the left or right Punch container opening (shown in the figure below).

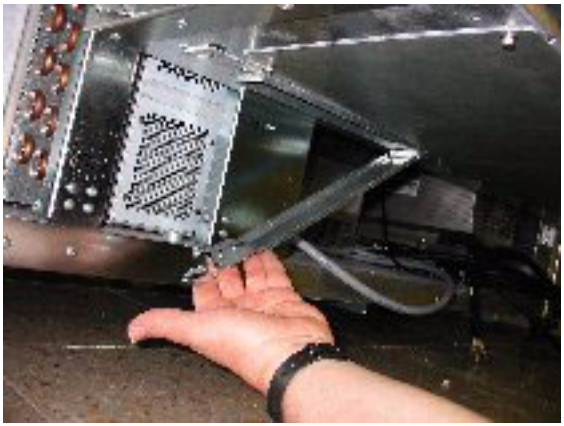


Figure 18: Opening the punch container



Tip: You can place a suitable box under the left or right opening to collect the punch slugs.

7. Close the Punch container opening.
8. Dispose the punch slugs.
9. Click **Reset Machine** on the Routine Functions menu. Then click **Yes** in the Reset confirm message.

The machine resets to **Ready**, **Off-line** or **Working** status, depending on the prior status.

Periodic Cleaning Procedures

Drum Cleaning

1. Clean the drum surface and holes. Keep them free of plate ablation debris and other particles.



Figure 19: Cleaning the drum surface holes

2. Clean and/or replace the drum vacuum pump air filter.

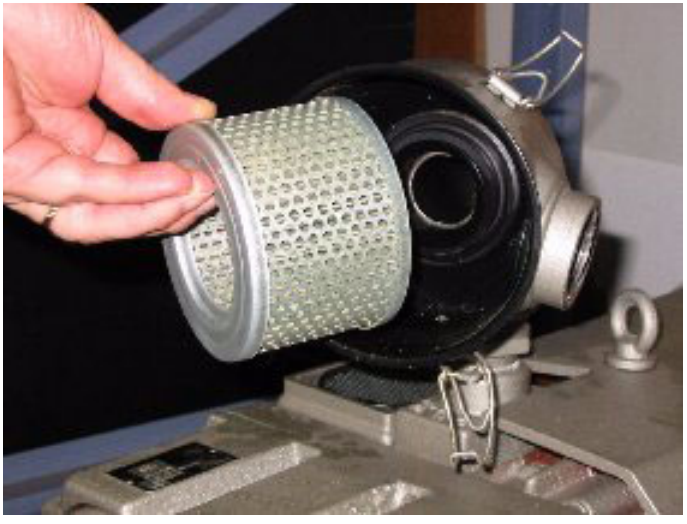


Figure 20: Removing drum vacuum pump air filter

Roller Cleaning

To load/unload rollers:

➢ Clean the roller with a graphics art as rubber cleaner/rejuvenator. Do not use alcohol.



Figure 21: Cleaning the roller

Vacuum Hole Cleaning

The vacuum holes require cleaning every week. Ablation particles trend to settle in the drum holes during plate exposure.



Tip: Fuji plates are especially ablative.

➢ Turn the drum vacuum on during the cleaning so that loosened particles will be sucked through the holes.



Figure 22: Cleaning vacuum holes

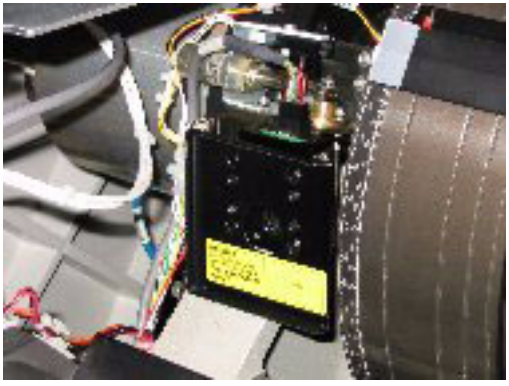
Additional Periodic Maintenance Procedures

Changing Air Filter

- Change the external air filter once every 6 months.

Cleaning Detector Cover

- Clean the debris from the detector cover with a dry cloth.



Cleaning Paper Rollers

➢ Clean the paper rollers with a cloth and a film cleaner.



Replacing Air Pressure Regulator

1. Replace the first stage filters and second stage filters of the air pressure regulator.
2. Clean the first stage filter of the air pressure regulator.

Releasing Plates That Got Stuck

This section describes how to remove a plate that got stuck inside the platesetter. Special precautions are required when performing this procedure.



CAUTION: The plate edges are sharp so the plate **should not** be handled with bare hands. Wear gloves before attempting to release a plate.

Plates may get stuck during the plate centering and punching, during plate loading on the drum or during plate unloading.

If one of these stages fails as a result of a plate getting stuck inside the machine, an appropriate error message appears in the Message dialog box and the status shows **Attention** (red). The error message indicates where the plate may be located, and the necessary steps to release the plate (depending on plate location).

Important notes regarding released plates:

- It is recommended to release the entire plate as **one piece**; do not attempt to cut the plate.
- Released plates must be disposed; you may **not re-use** the plate.

Plate Stuck During Centering/Punching

1. Click **Open Front Door** on the Routine Functions menu, or click the front door on the Online machine view. Opening the door activates the laser and drum interlocks.
2. The front door locking mechanism is released for 30 seconds. During these 30 seconds, press the door slightly downward.
3. The door is released. Lift the door upward to open it completely.
4. Look inside the machine to locate the plate.
5. Wear protective gloves and grab the top edge of the plate (edge closest to the drum) to pull out the plate.
6. Dispose the released plate.

7. Reset the machine to home position by clicking **Reset Machine** on the Routine Functions menu.
   The status indicator shows **Ready** (blue) or **Working** (green) and the next plate is loaded, or **Off-line** (gray) if there are no more plates to expose.

Plate Stuck When Loading Onto Drum

When the plate is loaded onto the drum, the tail gripper test may fail.

1. Click **Open Rear Door** on the Routine Functions menu, or click on the rear door on the Online machine view. Opening the door activates the laser and drum interlocks.
2. Move the tail grippers away from the plate.
3. Carefully rotate the drum until you can see the head gripper.
4. Click **Hardware** on the Utilities menu to open the Hardware dialog box.
5. In the Hardware dialog box, activate the head gripper.
6. Now that the plate is released, you can remove the plate: wear protective gloves and pull out the plate.
7. Dispose the plate.
8. In the Hardware dialog box, clear the head gripper option.
9. Move the tail grippers to pre-load position.
10. Perform a machine reset.
11. In the Hardware dialog box, open the Loading system directory and double-click **Loading system**. The Loading system dialog box opens.
12. In the Loading System dialog box, click **Restart Plate State**.
13. Then click **Pre-load** (in the same dialog box) to move the tail gripper to the correct position according to the defined plate size.

The status indicator shows **Ready** (blue).

Plate Stuck When Unloading

1. Click **Open Rear Door** on the Routine Functions menu, or click on the rear door on the Online machine view. Opening the door activates the laser and drum interlocks.
2. The rear door locking mechanism is released for 30 seconds. During these 30 seconds, press the door slightly downward.
3. The door is released. Lift the door upward to open it completely.
4. Look inside the machine to locate the plate.
5. Pull out the plate while wearing protective gloves.
6. Perform a machine reset.
7. Dispose the plate.

The status indicator shows **Ready** (blue) or **Working** (green) or **Off-line** (gray).

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