Connectivity User Guide

English

Brisque to Lotem 800 II / Lotem Quantum Family

399Z1R762B

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Brisque to Lotem 800 II / Lotem Quantum Family

Connectivity User Guide

creo™

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RE37,376	5,283,140	5,517,359	5,699,740	5,969,872	6,134,393	6,283,589
4,456,924	5,291,273	5,519,852	5,708,736	5,973,801	6,136,509	6,295,076
4,500,919	5,323,248	5,526,143	5,713,287	5,986,819	6,137,580	6,299,572
4,558,302	5,325,217	5,532,728	5,742,743	5,995,475	6,147,789	6,318,266
4,743,091	5,339,176	5,561,691	5,764,374	5,996,499	6,158,345	6,340,817
4,992,864	5,343,059	5,568,595	5,764,381	5,998,067	6,159,659	6,352,816
5,049,901	5,355,446	5,576,754	5,771,794	6,003,442	6,164,637	6,353,216
5,079,721	5,359,451	5,579,115	5,785,309	6,014,471	6,180,325	6,366,339
5,081,617	5,359,458	5,592,309	5,802,034	6,016,752	6,181,362	6,371,026
5,103,407	5,367,360	5,594,556	5,813,346	6,031,932	6,181,439	6,377,739
5,111,308	5,384,648	5,600,448	5,818,498	6,043,865	6,186,068	6,387,597
5,113,249	5,384,899	5,608,822	5,854,883	6,060,208	6,189,452	6,396,422
5,122,871	5,412,491	5,615,282	5,861,904	6,063,528	6,191,882	6,396,618
5,124,547	5,412,737	5,625,766	5,861,992	6,063,546	6,204,874	6,407,849
5,132,723	5,420,702	5,636,330	5,875,288	6,072,518	6,208,369	6,414,755
5,150,225	5,420,722	5,649,220	5,894,342	6,090,529	6,214,276	6,422,801
5,153,769	5,459,505	5,650,076	5,900,981	6,096,461	6,217,965	6,435,091
5,155,782	5,473,733	5,652,804	5,934,196	6,098,544	6,252,522	
5,157,516	5,481,379	5,680,129	5,942,137	6,107,011	6,260,482	
5,208,818	5,488,906	5,691,823	5,946,426	6,112,663	6,266,080	
5,208,888	5,497,252	5,691,828	5,947,028	6,115,056	6,266,134	
5,247,174	5,508,828	5,696,393	5,958,647	6,121,996	6,267,054	
5,249,067	5,509,561	5,699,174	5,966,504	6,130,702	6,268,948	

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Who Should Use This Manual

This manual is intended for anyone who is involved in using or administering a Brisque to Lotem 800 II / Lotem Quantum Family workflow. It explains how to use the software and points out procedures that are specific to your workflow.



Important: The Lotem 800 II Family in this manual refers to the Lotem 800 II (S, F and V speed), Lotem 800 II Quantum (S, F and V speed), Lotem 800 II with Spectrum and the Lotem 800 II Quantum with Spectrum. Lotem Quantum refers to Lotem 850 Quantum and Lotem 400 Quantum. Unless otherwise specified, Lotem 800 II / Lotem Quantum refers to all machines.

Note: All screen grabs are taken from the Lotem Quantum unless otherwise specified.

To use this manual, you should:

- have a working knowledge of prepress operations
- be familiar with the Windows operating system
- have a basic working knowledge of the Lotem device.

This manual assumes that:

- All the hardware, software, and network components of your Creo system are installed, configured, and operating correctly.
- Files submitted to the Creo system are free of common errors usually resolved during preflight, such as missing fonts and PostScript errors.
- You have read the documentation of Brisque 4.0 and your Lotem 800 II / Lotem Quantum Device (Lotem 400, Lotem 800 II Family , Lotem 800 II Family with Spectrum), and have a basic understanding of using both systems.

Additional Documentation



Brisque 4.0 Quick Start Guide, 399Z50096G: a quick reference guide to working with Brisque 4.0.

Brisque 4.0 User Guide, which comprises:
Production Tools, 399Z1R387A
Preparing Files for Output, 399Z1R388A
Working with Imposition Jobs, 399Z1R389A
Output Operations, 399Z1R390A

Lotem 800 II Family User Guide, 399Z3R855: describes how to work with the Lotem 800 II / Lotem Quantum.

Lotem 800 II Family Safety Precautions for User, 399Z3R854: describes safety issues/warnings/concerns regarding working with the Lotem 800 II / Lotem Quantum.

Lotem 400 Quantum Family User Guide, 399Z1R513: describes how to work with the Lotem 400 Quantum.

Lotem 400 Quantum Family Safety Precautions for User, 399Z1R515: describes safety issues/warnings/concerns regarding working with the Lotem 400 Quantum.

Lotem 800 II Family with Spectrum User Guide, 399Z3R873.

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



WARNING: This symbol 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.



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 this or another Creo document.

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Brisque to Lotem 800 II / Lotem Quantum Connectivity Workflow

The Brisque to Lotem 800 II / Lotem Quantum workflow combines the workflow of the Brisque application and the features of the Lotem 800 II / Lotem Quantum platesetter.

The following outlines the Brisque to Lotem 800 II / Lotem Quantum workflow:

- Define your media on the PC Controller application.
- Configure your Lotem 800 II / Lotem Quantum platesetter on the Brisque application.
- Create Job Tickets on the Brisque workstation.
- Submit the Expose Jobs to the Lotem 800 II / Lotem Quantum platesetter.

Workflow Components

To run a Brisque to Lotem 800 II / Lotem Quantum workflow you need the following components:

- Brisque
- 1-2 TSP boards and single/dual TSP cable, depending on Device speed
- PC Controller (part of the Lotem, with the front end on a separate table)
- Lotem 800 II, Lotem 800 II Quantum, or Lotem 400 Quantum, Lotem 800 II / Lotem 800 II Quantum with Spectrum platesetter

What is Brisque?

The Brisque™ family of workflow systems automates prepress workflow while leaving control in your hands. By combining proven Brisque workflow with Adobe® Extreme™ technology, Creo provides the performance and flexibility of a PDF workflow with the security and reliability of the CT and LW production file formats. Brisque provides an efficient and flexible workflow, with multiple configurations to suit an array of users and outputs to a large variety of devices. The powerful new generation of the Brisque family allows you to reach new heights of quality and productivity.

The Brisque workflow assures consistent output, since the same RIPed data is used for all output devices (contract and imposition proofer, imagesetter, platesetter, and third party device output). As a result, the press run matches your customer-approved proof the first time around. This workflow enables you to preview or proof individual pages, as well as reader spreads and printer spreads impositioned on-the-fly, without returning to a desktop imposition program each time.



For more information on the Brisque, see the Brisque documentation list in *Additional Documentation* on page xi.

Brisque Login, Logout and Shutdown

This section describes how to start up and shut down the Brisque, and the circumstances under which each procedure should be used.



WARNING: Avoid shutting down the Brisque unnecessarily!

Login

When you turn on the Brisque, the system automatically boots. After a while, the **console login** prompt appears.

To log into the system:

1. At the **console login** prompt, type **cdesci** and press ENTER.
2. Press ENTER again to confirm the login; after a short period, message windows appear indicating that the Creo Servers are being loaded.

If during the login procedure, a process/application does not load properly or a board is not detected, then a results window appears detailing the faults. Click **Continue Logon** to continue the login procedure. However, you should report the problem to your system administrator.

When the login is completed, the **Brisque Launch Pad** is displayed on the Brisque CDE (Common Desktop Environment).



Note: The CDE opens in its last saved state. For example, the windows that were open when the CDE was saved will reappear after login.

Logout

We recommend that you logout from the system when you finish work, but stop short of actually switching off the computer.



WARNING: If you need to switch the computer off, **DO NOT** switch it off until you complete both the logout and shutdown procedures.

To logout from the system:

1. From the **Brisque Launch Pad**, double-click **Exit.**
2. Click **Continue logout** to continue the process. When the **console login** prompt appears, you are logged out from the system.

   Or, to cancel the logout, click **Cancel logout.**



Note: Do not switch off the computer until you perform the shutdown procedure (see *Shutdown* on page 5).

Alternative logout method:

1. Right-click the Brisque desktop, or left/right click the **Launch Pad** Window Control box; a popup menu appears.
2. Click the **Log out** option; the Logout Confirmation window appears.
3. Click **Continue logout** to exit the system; when the **console login** prompt appears, you are logged out from the system.



Important: If the system freezes or does not respond during the logout procedure, you must reset the system (see *What is Lotem 400 Quantum / Lotem 800 II / Lotem 800 II Quantum?* on page 6).

Shutdown

Do not turn the Brisque power switch off before properly logging out and shutting down the Brisque. Switching the power off without performing the shutdown procedure may damage your data and system files.



Note: You might want to perform shutdown as a routine maintenance procedure only whenever the system seems to be processing slowly. However, as a maintenance procedure, **DO NOT** shut down the system more than once a week.

To shut down the system:

1. Perform the logout procedure (see *Logout* on page 4).
2. At the **console login** prompt, type **shutdown**; the system begins the shutdown process.



Note: Depending on your hardware, a **Halt Completed** prompt may appear and you may then switch off the computer. Otherwise your system will switch off on its own.

What is Lotem 400 Quantum / Lotem 800 II / Lotem 800 II Quantum?

The state-of-the-art Lotem 400 Quantum platesetter offers superb quality and high platemaking productivity of up to 25 4-up plates per hour (with MCU option). The Lotem 800 II produces up to 29 8-up plates per hour. Creo SQUARESpot thermal imaging predictability and consistency assures plate imaging integrity with Automatic loader. Driven by a Brisque or Prinergy, the Lotem 400 Quantum / Lotem 800 II is for the discriminating printer who cannot compromise. This ultimate computer-to-plate (CTP) device meets and adapts to all your needs for efficient, continuous production that keeps the presses running.

Creo is a pioneer of thermal imaging, the de facto standard CTP technology today due to its outstanding performance and quality. SQUARESpot thermal imaging maintains consistent reliable plate imaging despite normal process variation such as changes in plate sensitivity or processor chemistry. This precise process control enables reliable FM screening and artifact-free images.

The Lotem 400 Quantum includes:

Lotem 400 Quantum Plate size ranges from 311 x 228 mm (12.25 x 9 inch) to 750 x 622 mm (29.5 x 24.5 inch). Available in the following configurations:

- Manual Loading
- Multi Cassette Unit (See *MCU for Lotem 400 Family User Guide*, 653-00118A.)

The Lotem 800 II / Lotem 800 II Quantum includes:

Lotem 800 II Plate size ranges from 457 x 381 mm (18 x 15 inch) to 1130 x 905 mm (44.5 x 35.4 inch).
Lotem 850 Quantum Plate size ranges from 457 x 381 mm (18 x 15 inch) to 1160 x 950 mm (45.67 x 37.4 inch).

Available in the following configurations:

- Single cassette
- Dual Loading Cassette (See *DLC for Lotem 800 User Guide,* 399Z1R080B)
- Multi Cassette Unit (See *MCU for Lotem 800 User Guide,* 399Z1R092)

The fully automated platesetting sequence produces press-ready plates without your intervention. Plates are loaded automatically from the cassettes, after automatic slip-sheet removal. The customized, inline punch system punches plates according to the press profile selected on the digital front end. Then plates are automatically mounted on the drum for imaging and unloaded directly into an optional inline processor.



Note: The Lotem 800 II platesetter is the same as the Lotem 800 Quantum. The Lotem 800 II supports staccato with a minimum of 25 microns. It does not support thermal compensation. The Lotem 800 II Quantum does not support either of these two options.

Available models:
Lotem 800 II - S speed, F speed, and V speed.

What is Lotem 800 II Family with Spectrum?

The Lotem 800 II Family with Spectrum (Lotem 800 II with Spectrum and the Lotem 800 II Quantum with Spectrum) proofing option enhances the Lotem 800 systems and enables you to create halftone proofing. Since the same RIPed data, screening process, and imaging head are used for both proofs and plates, full conformity between the two media is assured. Because Spectrum uses a dual-loading cassette or multi-cassette unit for loading the proofing media, you can easily switch between plate making and proof making.

The Lotem 800 II Family with Spectrum delivers the highest proof-to-plate, proof-to-proof, and machine-to-machine consistency in the industry by using the same input file, resolution, linescreen, screen angle, and spot function to image plates and proofs on one device. An advanced media-handling mechanism automatically cleans, registers, loads, and unloads proofing material for multiple proof cycles.

Driven by Brisque or Prinergy front end devices, the Lotem 800 II Family with Spectrum ensures efficient, continuous production that keeps your presses running.



For information on Prinergy Connectivity see *Prinergy to Lotem 800 II / Lotem Quantum Family Connectivity User Guide*, 399Z1R512B.

The Lotem 800 II Family with Spectrum can expose both 8 up and 4 up media. You can configure the Lotem 800 II Family with Spectrum to either a dual-loading cassette (DLC) or a multi-cassette unit (MCU).



For more details, see the *Lotem 800 II Family with Spectrum User Guide*, 399Z1R873A, *MCU for Lotem 800 User Guide,* 399Z1R092 and *DLC for Lotem 800 User Guide*, 399Z1R080.

Basic Workflow

The basic Brisque to Lotem 800 II / Lotem Quantum Family workflow is as follows:

1. Configure your machine as a Lotem Quantum or Lotem 800 II machine.
2. For Spectrum machines, you must first configure your machine as a Lotem Quantum and then as a Spectrum.
3. Calibrate your machine by defining Press Formats, performing Excurve calibration and Tone Reproductions.
4. Define the job parameters (create template and hot folders etc ...).
5. You may then send a plate or proof job from Brisque.

2

Configuring and Calibrating the Lotem 800 II / Lotem Quantum Family from the Brisque Workstation

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Accessing the Output Device Configuration

The Output Device Configuration on the Brisque is used to configure the Lotem Quantum, to view the device parameters, to define Press Formats, and to perform Excurve and Tone Reproduction.

To access the Output Device Configuration:

1. From the Brisque Launch Pad, open the **Setup** panel.

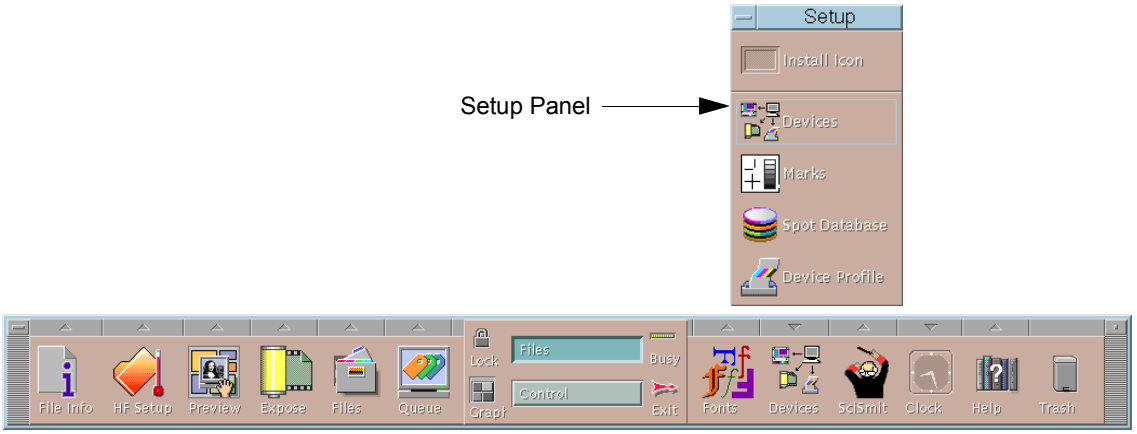


Figure 1: Brisque Launch Pad with Setup panel

2. From the Setup panel, double-click the **Devices** icon. The Output Devices Handling window is displayed. Refer to next section.

The Output Devices Handling Window

All the output devices are configured from the Output Devices Handling window. This includes the configuring new devices, and modifying or deleting existing devices. In addition, various device operations are accessed from this window, as described in this chapter.

The Output Devices Handling window is shown below.

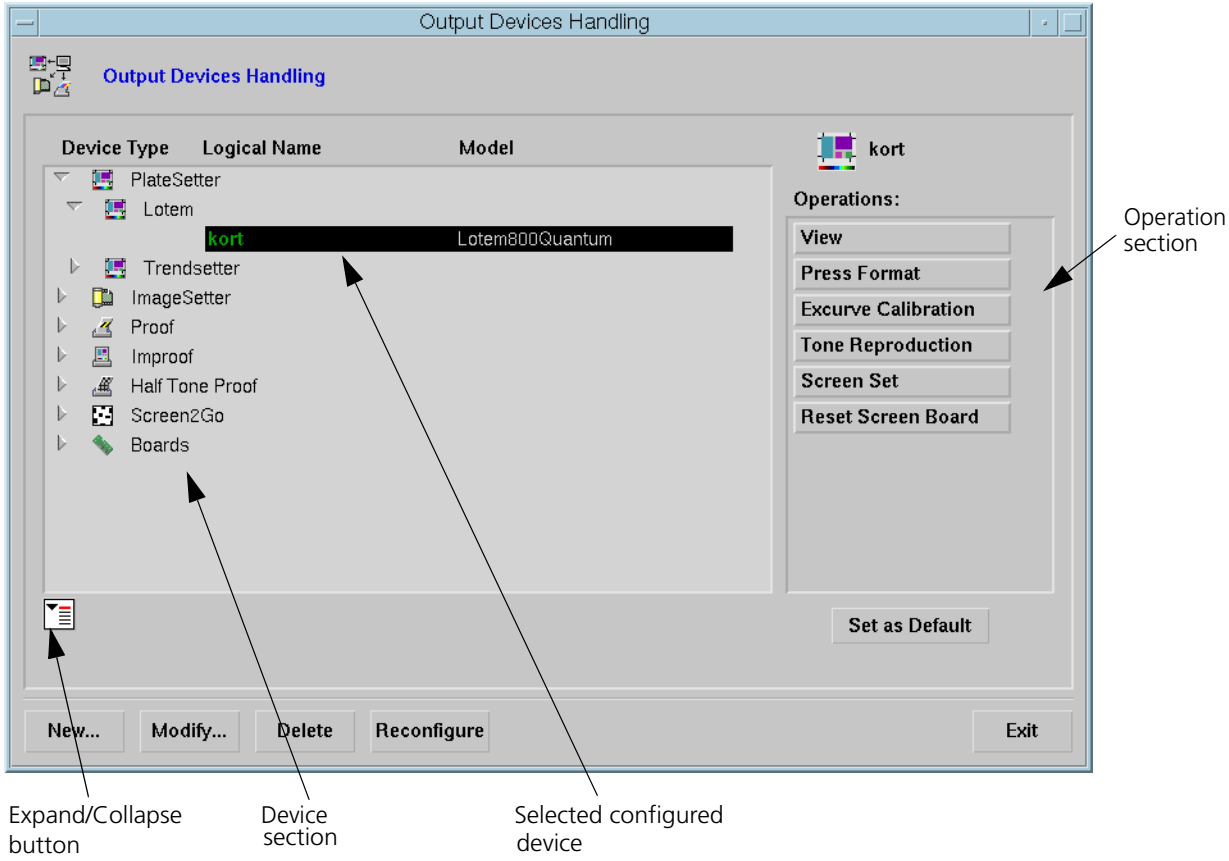


Figure 2: Output Devices Handling window

Device section, includes:

List of device groups, such as Platesetter, Imagesetter, Proofer, Imposition Proofer and Halftone Proofer. In our case it would be **Platesetter**. The list of device families is listed for each group, such as Lotem and Trendsetter for the Platesetter group.

Logical Name—the logical name of the device (defined during configuration).

Model—the physical device name.

Expand/Collapse button

Click to expand or collapse the list of devices, showing or hiding all details.

Operations section

The listed operations are those operations which are relevant for the selected configuration (that is, the selected logical name of a device).

Note: The buttons at the bottom of the Output Devices Handling window are used when configuring the devices, as described in the following section.

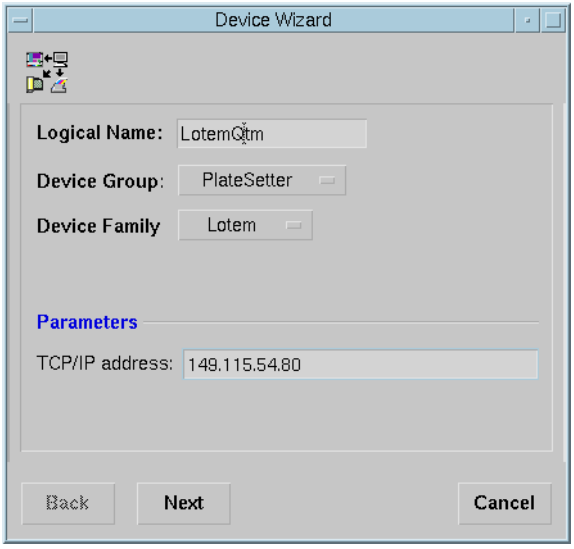
Configuring the Lotem 800 II / Lotem Quantum Platesetter

To check if a Lotem 800 II / Lotem Quantum platesetter is configured:

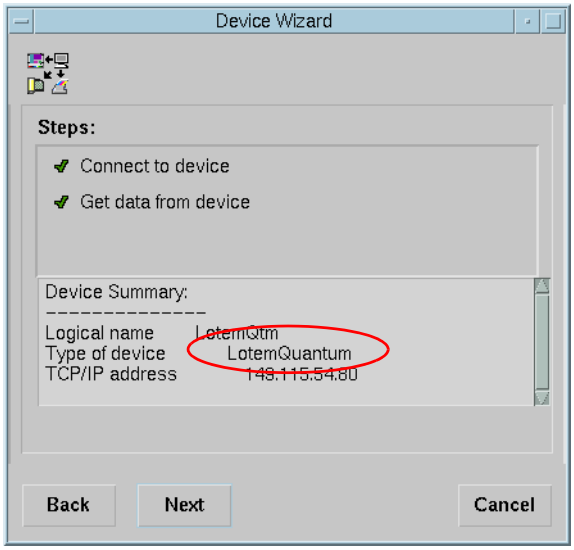
1. In the Output Devices Handling window, click arrow left of the **Platesetter** icon.
2. Click the arrow left of the **Lotem** icon. If a Lotem is configured, the connection to the Brisque is listed below the **Lotem** icon; the default is **green**.

To configure a new Lotem 800 II / Lotem Quantum platesetter:

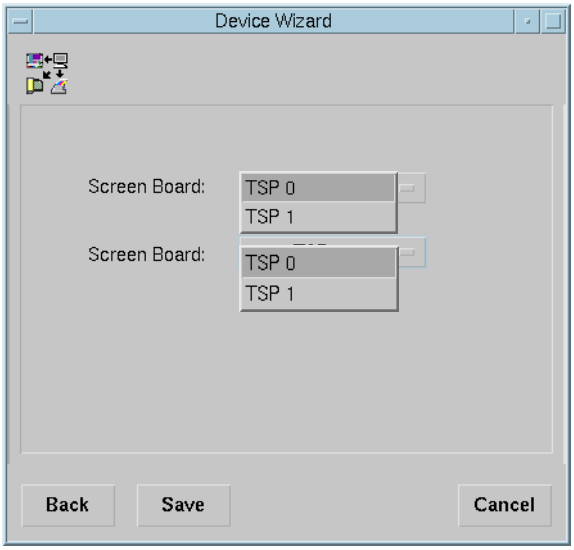
1. In the Output Devices Handling window, click **New**.



2. In the **Logic Name** box, type a logical name.
3. From the **Device Group** list box, select **Platesetter**. The **Device Family** list box is labeled `Lotem`.
4. In the **TCP/IP address** box, type the device address (for example, 149.115.54.80).
5. Click **Next**; a device summary is displayed. Now the Device Type is identified as `LotemQuantum`.



6. For machines with two TSP boards (V speed), click **Next**; the following window is displayed.

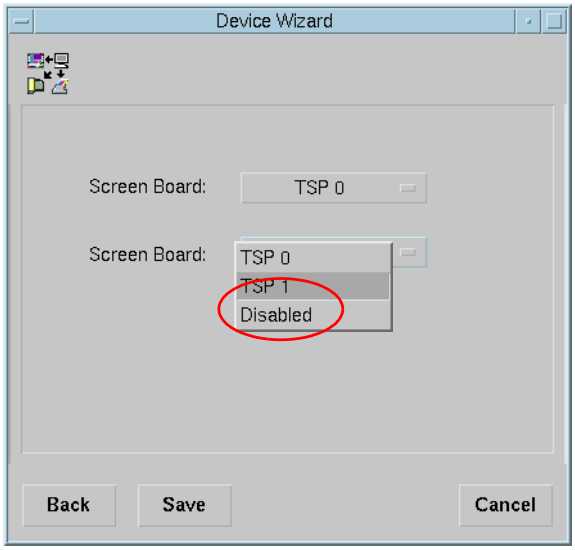


7. Select **TSP0** for the first and **TSP1** for the second (default) and click **Save**, to save the configuration. If the connection was successful, a confirmation message appears. The Lotem 800 II / Lotem Quantum connection is displayed in the Output Devices Handling window, under the **Lotem** icon.



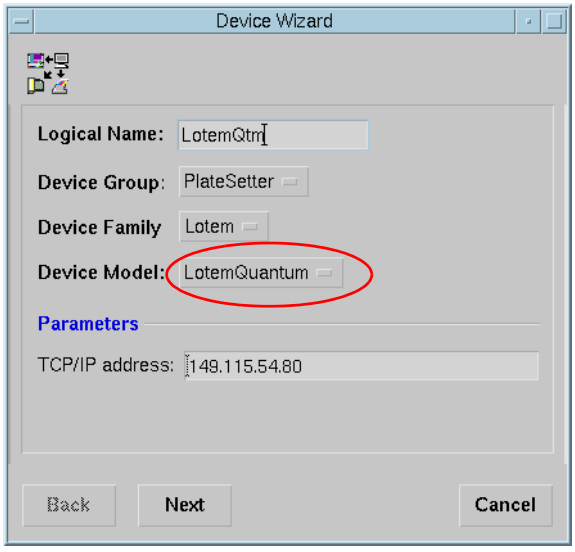
Note: When a TSP board becomes problematic, the user can configure the device with a single TSP board. This dramatically reduces the productivity, and therefore is not recommended.

8. For machines with one TSP board (F and S speed), click **Disabled**.

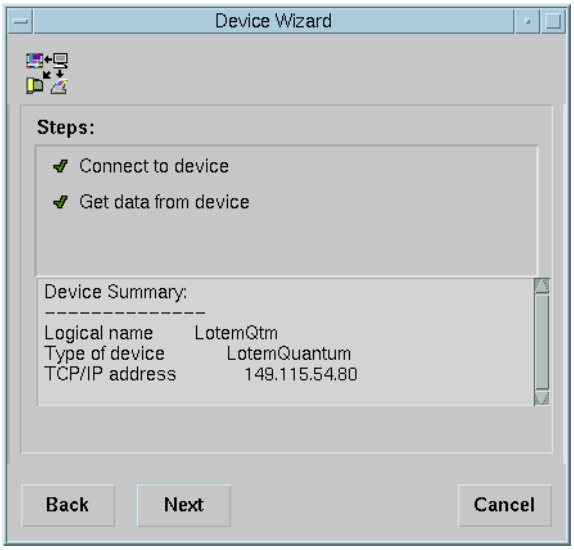


To modify the Lotem 800 II / Lotem Quantum platesetter parameters:

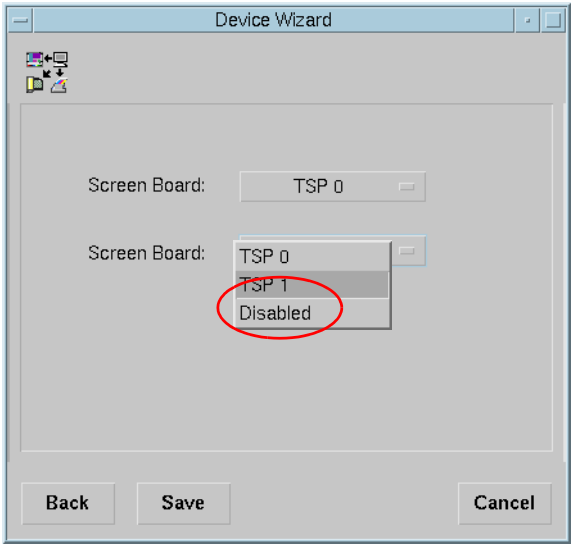
1. From the Output Devices Handling window, select the Lotem platesetter configuration and click **Modify**; the following dialog box appears. The Device Model name Lotem 800 II / Lotem Quantum is returned from the connected device.



2. Change the **TCP/IP address** as required and click **Next**.



3. Click **Next**; the following dialog box opens. You may now select Disabled from the **Screen Board** list box, if you want to operate with a single board.



4. Click **Save**, to save the configuration. If the update was successful, a confirmation message is displayed for a few seconds. The modified connection is displayed in the Output Devices Handling window, under the **Lotem** icon.

To delete the Lotem 800 II / Lotem Quantum platesetter configuration:

1. From the Output Devices Handling window, select the appropriate **Lotem** configuration, then click **Delete**. The delete confirmation is displayed.
2. Click **Yes** in the confirmation dialog to delete. The configuration is removed from the Output Devices Handling window.

To reconfigure the Lotem 800 II / Lotem Quantum platesetter:

If the machine does not respond when you send Jobs from the Brisque to the Lotem, you should first check the physical connection between the Brisque and Lotem. If the problem is not solved, you should reconfigure the Lotem:

1. From the Output Devices Handling window, select the Lotem platesetter configuration.
2. Click **Reconfigure**.

The Brisque reads the data from the device and confirms the connection. A confirmation message appears, and the device data is stored in the Brisque database. If the connection with the device fails, a failure message appears.



Important: There is currently no warning mechanism if the device is disconnected or a component failed. If problem persists, contact the local service center.

Lotem 800 II / Lotem Quantum Platesetter Operations

The operations available for the selected platesetter are listed in the Operations section of the Output Devices Handling window (see page 13).



Note: The available operations depend on the currently selected device.

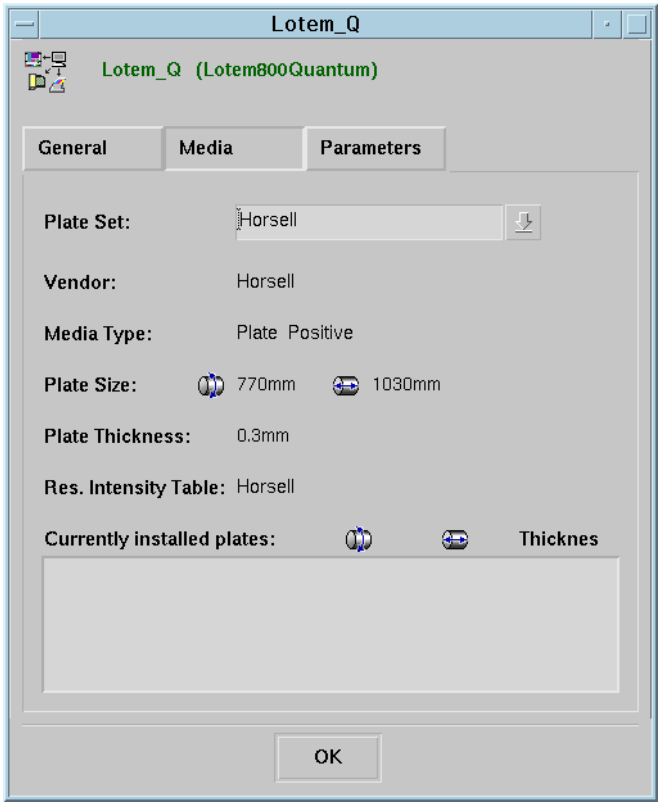
View

To view the device parameters of the selected Lotem Quantum; these parameters are set in the PC controller database.

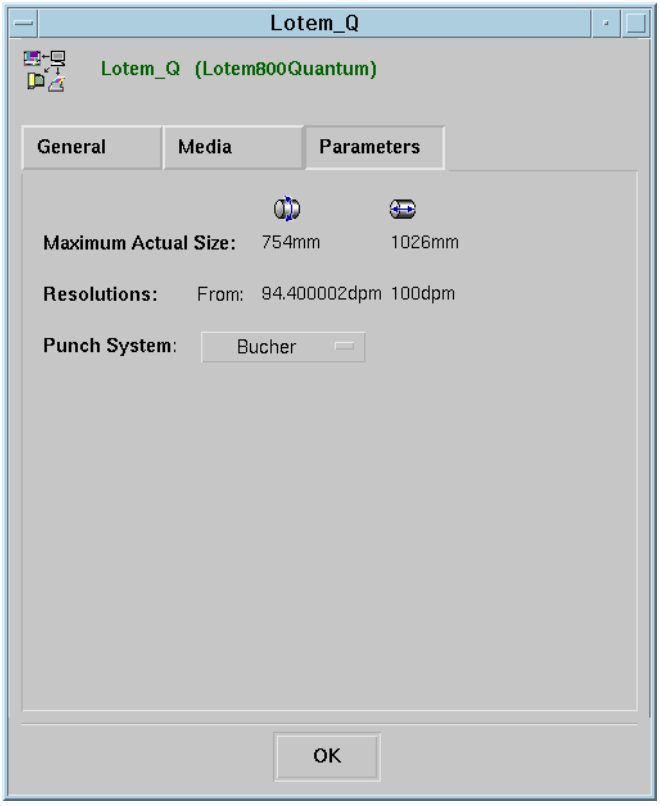
1. Click **View** to open the Lotem parameters dialog box. Click the **General** tab to display the connection parameters.



2. Click the **Media** tab. The plates set in the PC controller application, including plate size and thickness, are listed.



3. Click the **Parameters** tab. The exposure parameters, including the maximum exposed area and resolution range (94.488 - 100dpi), and the installed punch system, are listed.



4. Click **OK** to exit.

See *Press Format* on page 23, *Excurve Calibration* on page 27, *Tone Reproduction* on page 42 and *Screen Sets* on page 51.

Reset Screen Board

Occasionally, the exposure process hangs (a waiting message may appear in the Process Indicator), and you need to reset the screen board in order to restore the machine to Ready state.

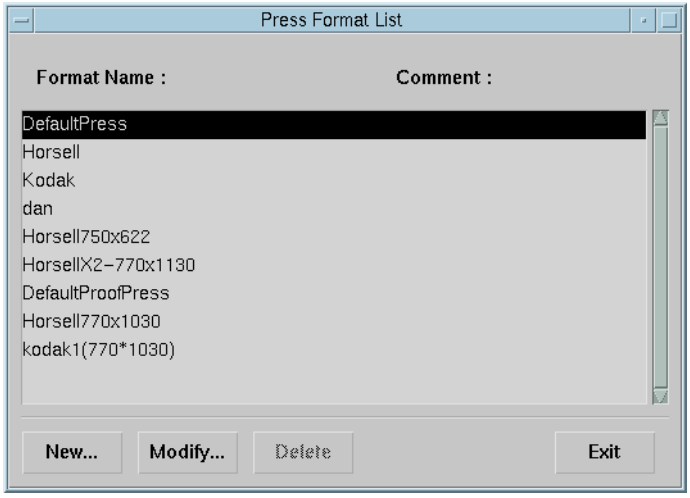
Reset Screen Board is intended for troubleshooting only, and it is not recommended for use during normal operation. Resetting the screen board will abort the current process, and the plate that is currently being processed cannot be reused. In some cases, **Reset Screen Board** causes the system to freeze, and you will need to reboot the system.

Press Format

Press Format defines the plate-specific attributes of the press, such as plate size and thickness, gripper margins and punch system(s). The plate used in the expose Job must conform to the Press Format parameters.

You can view the list of defined press formats, create new ones, and modify existing ones.

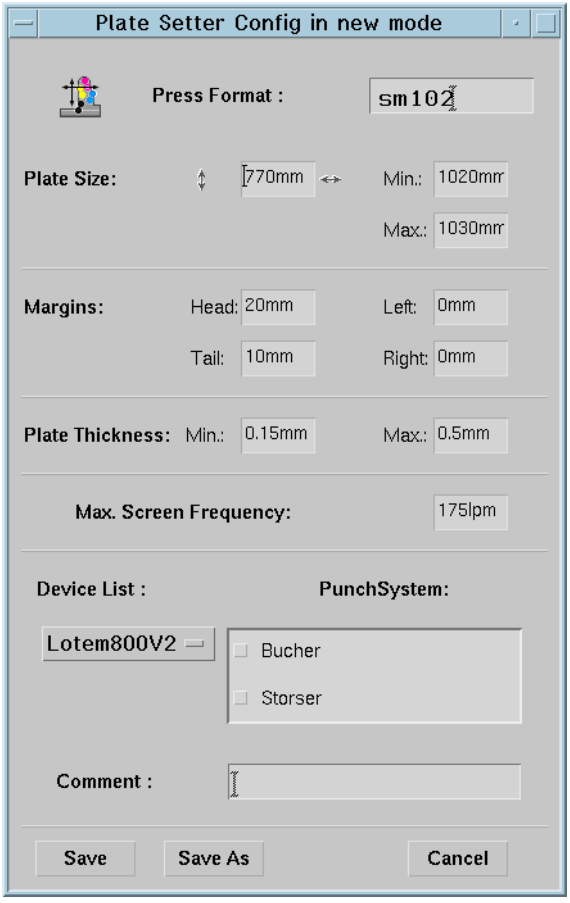
1. From the Output Devices Handling window, select a Lotem 800 II / Lotem Quantum configuration.
2. In the Operations section, click **Press Format**. The Press Format List dialog box opens and the available press formats are listed.



Note: Two Press Formats are predefined in the Brisque, Default Press and Default Proof Press; they cannot be deleted by the user.

To create a new Press Format:

1. In the Press Format list dialog box, click **New.** The following dialog box opens.



2. In the **Press Format** box, type the name of the new Press Format.



Important: Do not use the following characters, V:*?"<>| or SPACE. These characters are automatically replaced with an underscore (_).

3. Define **Plate Size**: **Around the Drum** (maximum plate height), and **Along the Drum** (maximum plate width).

4. Define **Margins: Head, Tail**—are non-imageable plate areas according to the currently selected Press Format. Two strips of emulsion remain on the plate (shaded areas), 6 mm at the head and 6 mm at the tail. **Left, Right** - side margins of the plate that will not be exposed. A minimum value of 0 mm for both side margins is acceptable.
5. Define **Plate Thickness**—minimum and maximum plate thickness according to the currently selected press format.



Note: Do not enter a maximum thickness value larger than the value defined in the PC controller database (this value can be seen in the Plate Set parameters dialog box of the Brisque).

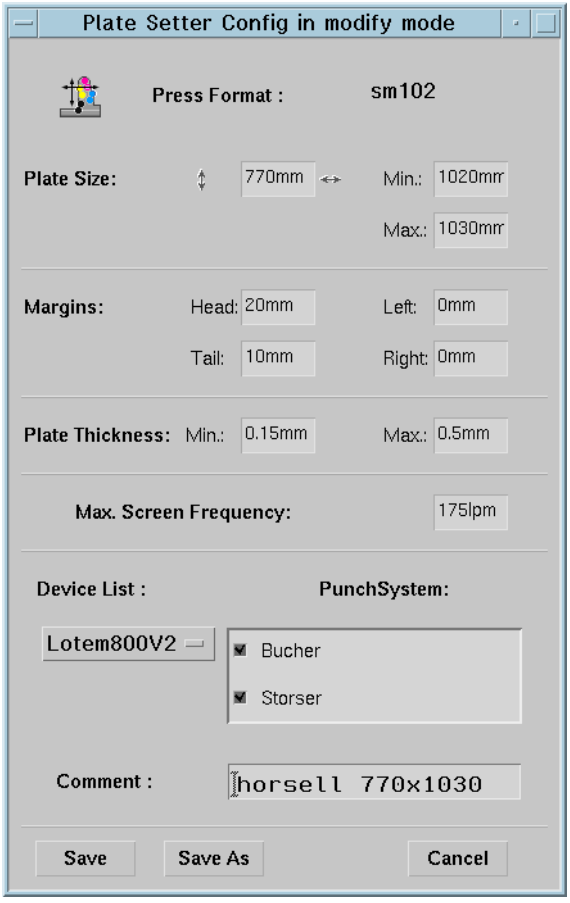


Note: Max. Screen Frequency - not supported (this value is for information only and not taken into account during plate expose).
Device List - the connected Lotem is listed. Currently only one Lotem can be connected to the Brisque.

6. Define **Punch System**—from the list, select the punch that is currently installed in the Lotem, according to the punch holes in the press, and which were initially configured in the PC Controller (refer to the Installation Guide of your platesetter for details).
7. **Comment** (optional)—you can enter here any comment to be displayed in the Press Format List dialog box.
8. Click **Save** to store the new Press Format. The data is saved on the Brisque and is also transferred to the PC controller database.

To modify an existing Press Format:

1. From the Press Format List dialog box, select a Press Format and click **Modify**. The following dialog box opens.



2. Modify the necessary Press Format parameters (for details on Press Format parameters, see page 24).

Note: You cannot modify the Press Format in the Plate Expose dialog box. See *Defining the Plate Expose Parameters* on page 78.

3. Click **Save.** The data is saved on the Brisque and is also transferred to the PC Controller database.



Tip: If you click **Save As**, a New Name dialog box opens. You can save a copy of the modified Press Format under a different name.

To delete a Press Format:

1. From the Press Format List dialog box, select a Press Format and click **Delete**. A confirmation message is displayed.
2. Click **Yes**. The Press Format is deleted from the list.



The other calibration tests are described in the Installation Guide of your platesetter.

Excurve Calibration

Excurve calibration verifies the correct reproduction of dot percentage values on the plate. Different Jobs involve different exposure conditions. The Excurves created for every Job type are attached to Templates in the Brisque application.



Note: Before performing the Excurve calibration, your machine must be calibrated for a specific plate type.

During Excurve calibration, a test exposure is generated which is then used to measure dot percentage values on the plate. The dot percentage values are entered into a table, which is used to correct the reproduction of dot percentage values on plate. After the Excurve calibration, we recommend that you perform the Excurve verification on (at least) a daily basis, depending on the standard of precision required for your plates.



Important: Always perform an uncalibrated test, create a new Excurve, then verify by performing a calibrated test using the real values measured during the uncalibrated test.

Excurve calibration with the Creo TurboScreen Processor:

Within a screen frequency range of up to 175 lpi (lines per inch), Creo TurboScreening provides a nearly perfect linear response to dot area values on file. Only 7 reference values are required to any correct film bias. Creo recommends the following coordinates:

0%, 5%, 25%, 50%, 80%, 95%, and 100%.



Note: Using only 7 reference values will not effect vignette smoothness.

For screen frequencies above 175 lpi and for TurboScreen FM screening, 11 to 18 reference values may be required to achieve linearization within 1-2% along the entire tone range. The following Excurve reference values are recommended for TurboScreen FM screens and for screen frequencies above 175 lpi:

0%, 2%, 5%, 10%, 15%, 25%, 35%, 50%, 60%, 70%, 80%, 90%, 95%, 100%.

High screen rulings and TurboScreen FM screening tend to produce higher dot gain on press than with conventional lower screen frequencies. Special attention should be paid to the Excurve so as to maintain accurate linearization on film and plate with these screens. Compensation for dot gain on press is accomplished using the output Tone Reproduction Curve.



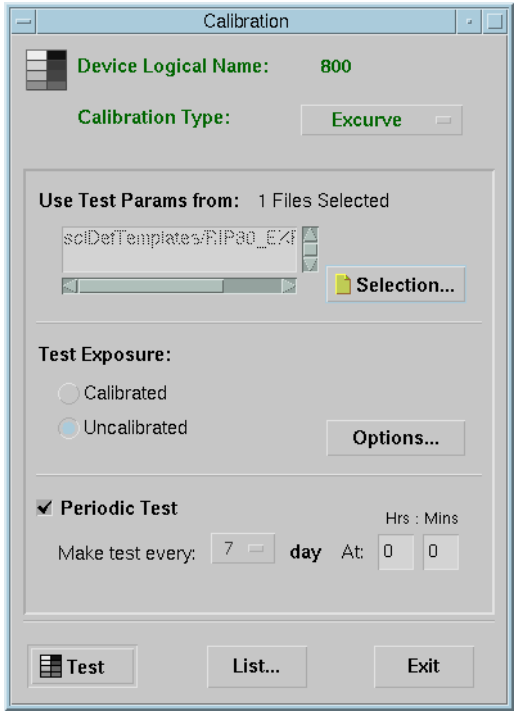
See *Tone Reproduction* on page 42.

Making a Test Exposure

The first test exposure is performed without using a predefined Excurve.

To perform the Test Exposure:

1. From the Brisque Launch Pad, double-click the **Devices** icon. The Output Devices Handling window opens.
2. Click the arrow next to the platesetter device type and select a device configuration; the device operations are enabled.
3. In the operations section, click **Excurve Calibration**. The main Calibration dialog box opens.



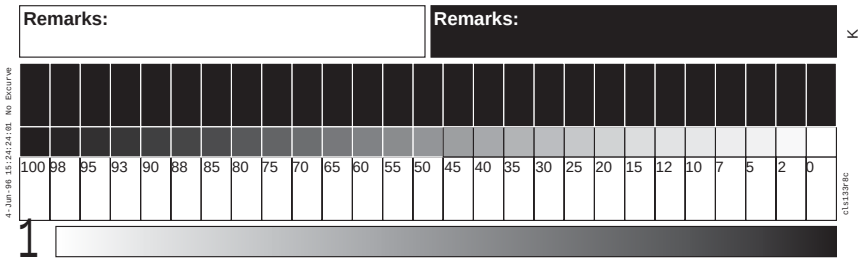
4. Verify that **Excurve** is listed as **Calibration Type**. The Excurve parameters are displayed in the dialog box.
5. Click **Selection**. A browser opens, showing a list of templates.
6. Select a template with the defined Expose or Plate Expose parameters that you want to use for the Excurve calibration.

7. When you return to the Calibration dialog box, the selected templates are displayed in the **Use Test Params from** box.

Note: If more than one template is displayed in the box, then when you perform the calibration, you will get multiple test results.

8. Click the **Uncalibrated Test Exposure** option.
9. **Optional:** You may define additional optional parameters by clicking **Options.** Refer to *Optional Excurve Calibration Parameters* on page 41, for a complete explanation.
10. Click the **Test** button. A test exposure is generated for each designated template.
11. Develop the exposed test plates.

Note: If a job is currently being exposed on the platesetter, the test is exposed after that job finishes.



12. Use a densitometer to measure the dot percentage values of each exposed test area, and record the results.

Note: To get accurate results, be sure to zero the densitometer to a ghost dot area on film or plate before measuring the dot area.

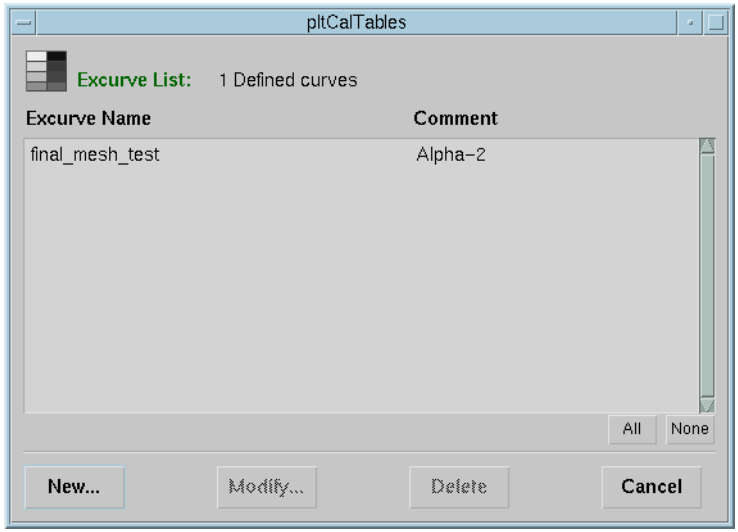
Important: Remember that if the Intensity calibration was not performed prior to running this test, the test results will not be meaningful.

Creating the Excurve

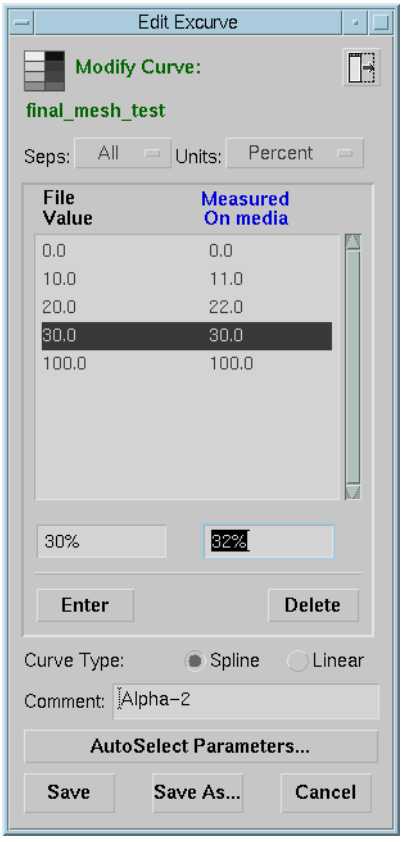
The measured dot percentage values of each exposed test strip are used to build a correction table (an Excurve) to reproduce the dot percentage values on plate. You can create a new Excurve either from scratch or modify an existing curve and save it under a new name.

To create a new Excurve from scratch:

1. From the main Calibration dialog box, click **List**. The Calibration Curve dialog box opens.



2. Click **New**. The Edit Excurve dialog box opens, listing the default values, (0,0) and (100,100) which describe a line.



3. Type the File Value in the box below the File Value column.

See *Entering Table Values* on page 34, for a complete explanation.

4. Click **Save** or **Save as**. The Save dialog box opens.
5. Type a file name in the **Save this Excurve as** dialog box and click **OK**. You are returned to the Calibration Curve List dialog box where the new Excurve is displayed in the list.

Additional parameters in the Edit Excurve dialog box:

- **Seps**—to designate the separation(s) to which this Excurve will apply. Normally this parameter is set to **All**, but you can create an Excurve for a specific separation.
- **Units**—to determine how the dot values are displayed in the table. Percent values range from 0-100. System values range from 0-255, and are the opposite of percentage values (for example, 0=100% and 250=0%).
- **Comment**—comments that you type are displayed in the Comment column of the Calibration Curve List dialog box. The comment should help you easily identify the Excurve file.
- **Enter**—to apply the inserted value to the selected parameter.
- **Delete**—to delete the selected percent value.
- **Autoselect Parameters**—to define the Expose conditions to which the Excurve is to be applied, from the main Expose dialog box, instead of designating a specific Excurve. See *To define Auto Select parameters:* on page 39.

To create a new Excurve based on an existing one:

1. From the main Calibration dialog box, click **List**. The Calibration Curve List dialog box opens.
2. Select an Excurve from the list.
3. Click **Modify**. The Edit Excurve dialog box opens, displaying the previously defined table coordinates.
4. Modify the table values and the Excurve options, as necessary. (See *Entering Table Values* on page 34.)
5. Click **Save As**. The Save As dialog box opens.
6. Click in the **Save this Excurve as** box and type a new file name.
7. Click **OK** to return to the Calibration Curve List dialog box where the new Excurve is displayed in the list.

Entering Table Values

To create the Excurve, you must insert file values and measured values into the Excurve table. The numbers that are displayed on the test plate are file values. Measure the area indicated by a file value with a densitometer to determine the corresponding measured value.

Normally, your Excurve table contains 21 sets of coordinates, evenly spread from 1-100%. For a more precise calibration, increase the number of coordinates. If you have a problem with range (highlights, or midtones, for example) that you want to calibrate more carefully, add more coordinates that correspond to that range.

To add, change or delete coordinates to the table:

1. Type the File Value in the box below the File Value column.
2. Use **Tab** or **Enter** to move to the box below the **Measured on Media** column. Type in the value that you measured off the test strip with the densitometer.
3. Click **Enter**. The new coordinate is added to the table.
4. **To change a set of coordinates**, delete the set and type the modified values in the table.
5. **To delete a coordinate**, select a row from the table and click **Delete.**



Note: Numbers can be rounded off to n.0% or n.5%.
The end-points (0,0 and 100,100) cannot be changed or deleted.



Tip: Use the TAB key on the keyboard to move from the box below the File Value column, to the box below the Measured on Film column, to the Comments box, back to the box below the File Value column again, and so forth. Use SHIFT+TAB to move through the same three boxes in reverse order.

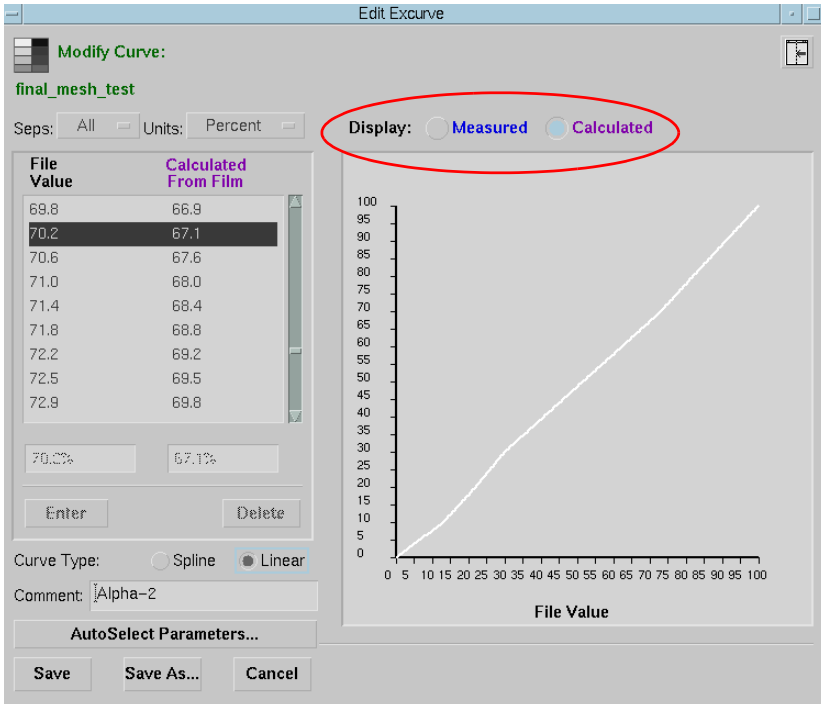
Viewing an Excurve Graph

The Excurve dialog box displays two different curves:

- The **Measured** curve represents the coordinates made up of **File** values and **Measured on Media** values.
- The **Calculated** curve represents the Excurve that is automatically created by the application to correct the disparity between **File** values and **Measured on Media** values. You can view either curve on the screen.

To view the Excurve:

1. Click the **Expand** icon on the upper right corner of the Excurve dialog box. (Click it again to close the display.)



2. To select which curve will be displayed, click either **Measured** or **Calculated**.

Note: When the Measured Display option is selected, the data in the right column of the table displays the Measured On Media values. When the Calculated Display option is selected, the right column displays the automatically calculated correction values.

Controlling the Smoothness of the Curve

You can control the smoothness of the exposed Excurve with the Curve Type option. Smoothing adds points between the user-defined input points to smooth out the curve.

- To use Excurve smoothing: from the New/Modify Excurve dialog box, select **Spline.**
- To cancel the Excurve smoothing, select **Linear.**



Note: Smoothing does not visually affect the Calculated and Measured curves in the New or Modify Excurve dialog box. Its effect is seen on the actual Excurve generated from the input data (not displayed on the screen).

Verifying an Excurve

Once the Excurve table is created, you can perform a test to verify that the system is calibrated properly.



Important: We recommend that this verification test be performed on (at least) a daily basis, depending on the standard of precision required for the films you are producing.

To verify the Excurve:

1. Open the main Calibration dialog box. Make sure that the selected Calibration Type option is **Excurve**.

   For first time verification of the Excurve, the name of the template with the Expose parameters used in the calibration already appears in the **Use test Params from** box.

   For periodic verification, or if the correct template is not displayed, click the **Selection** icon. From the browser, select the template(s) to which the Excurve you want to verify is attached. The selected template appears in the **Use Test Params from** box.

2. Open the template itself, and check its defined Expose operation parameters to verify that the intended Excurve is actually attached.
3. Click the **Calibrated Test Exposure** option.
4. Click **Test**. A test exposure is generated, based on the attached Excurve table. The test exposure is performed using the new curve(s) that you created previously.

5. Develop the exposed test plates, use a densitometer to measure the dot percentages of each test strip and record the results.

   To get accurate results, be sure to zero the densitometer to a ghost dot area on the plate before measuring the dot area.

   If the measured values are within 2% of the corresponding file values, no further adjustment is required.

   If the measured values differ from the corresponding file values by more than 2%, then you need to repeat the Excurve calibration from scratch. Make sure that you accurately measure the values with the densitometer, and increase the number of values in the table.

Automatic Excurve Verification

You can define specific time intervals at which the Excurve verification test is automatically performed. At these defined intervals, a test strip is exposed, based on the parameters defined by the Expose operation of the template.

To define automatic periodic tests:

1. From the main Calibration dialog box, select the **Periodic Test** box.
2. Click **Make Test Every** and select how often the test should be run.
3. In the **At** boxes, type the hour (HH) and minute (MM) that the test should run on test days.

Modifying an Excurve

When an Excurve is no longer accurate, you should run an uncalibrated test exposure (not based on an Excurve), measure the dot percentage values from the test strips with a densitometer, and type the new coordinates into the Excurve table. You can either build a completely new table, or modify an existing one.



See *Creating the Excurve* on page 31.

To modify an existing Excurve:

1. From the main Excurve dialog box, click **List**. The Calibration Curve List dialog box opens.
2. Select the Excurve you want to edit; the selected curve is highlighted.
3. Click **Modify**. The Edit Excurve dialog box opens with the words `Modify Curve` written next to the icon in the upper left hand corner.
4. Type the new Measured on Media values into the Excurve table.



See *Entering Table Values* on page 34.

5. Click **Save**. The modified Excurve is saved under the original name.

To delete an Excurve

1. From the Calibration Curve List dialog box, select an Excurve; the selected Excurve is highlighted.
2. Click **Delete**. The Excurve is deleted from the list.

Attaching the Excurve to a Production Workflow

Excurves are created to match specific expose conditions. You can either manually attach an Excurve to a template, or use the AutoSelect option to automatically choose the correct Excurve for each exposure, so that every time a file is processed by that template, the attached Excurve is applied.

To manually attach a specific Excurve to a template:

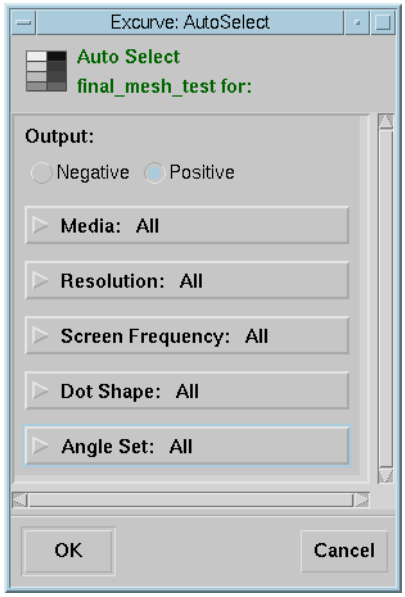
- In the main Expose dialog box, designate an Excurve when you define Expose parameters via the Template Builder.



See *Designating an Excurve*, in either the *Exposing to Film* or *Exposing Directly to Plate* chapters of the *Brisque 4.0 User Guide*.

To define Auto Select parameters:

1. From the Excurve dialog box, select an Excurve and click **Modify**. The Edit Excurve dialog box opens.
2. From the Edit Excurve dialog box, click **AutoSelect Parameters**. The Excurve AutoSelect dialog box opens.



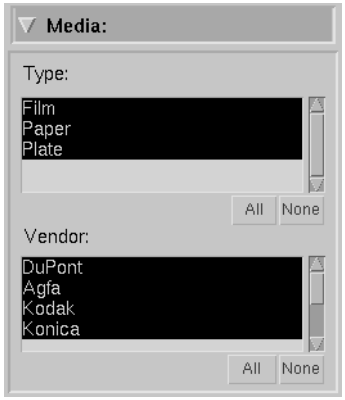
3. Select **Negative** or **Positive** to define whether this Excurve table is for negative or positive exposures.



Note: A minimum of two Excurve tables must be created, one for negative and one for positive exposures, if you want to use the AutoSelect feature.

4. Click the **Media** list box and select the relevant media vendor and media type(s) for which this Excurve is relevant.

Note: Always keep the box expanded. (If you collapse the box, you cancel the selected option).



5. Click **Resolution** to define the range of expose resolutions by entering values into the **From** and **To** boxes.

Note: The resolution for Lotem 400 and 800 Quantum is 94.448 or 100.

6. Click **Screen Frequency** to define a range of screen frequencies by entering values into the **From** and **To** boxes.
7. Click the **Dot Shape** list box and select a dot shape or shapes from the list.
8. Click the **Angle Set** list box and select an angle set(s) from the list.
9. Click **OK** to confirm the selections and exit the AutoSelect dialog box.

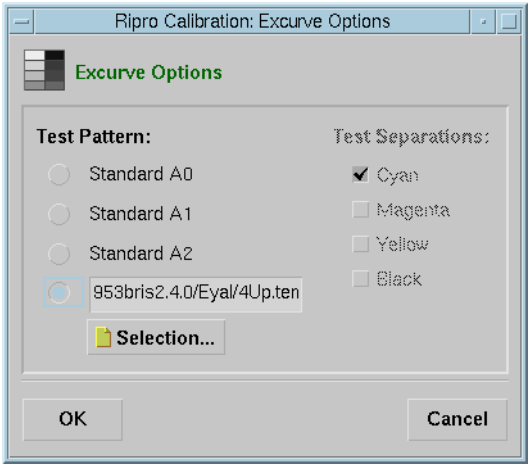
Note: The possible options for table boxes vary, according to the connected output device.

Optional Excurve Calibration Parameters

In Excurve calibration, you may choose to define optional parameters, which include Test pattern and Test separations.

To define the optional parameters:

1. From the Calibration dialog box (Excurve), click **Options**. The Excurve Options dialog box opens.



2. **Test pattern:**
   a. Select the custom (unlabeled) **Test Pattern** box.
   b. Click the **Selection** button; a browser opens.

For information on using the browser, see the *Managing Files and Folders* chapter in the *Brisque 4.0 User Guide*.

   c. From the browser, select the image file you want to expose then click **OK**; the selected file name is displayed in the custom (unlabeled) **Test Pattern** box. When you run the test, the selected image is exposed.

3. **Test Separations:** Defines which separations of the test image will be produced on plate. Normally, selecting only Cyan is sufficient for calibration.

Tone Reproduction

Tone Reproduction curves are created to compensate for press-related effects and to control image tonality.

The curves are built according to data measured off the press and according to pre-calculated correction tables supplied by the printer. Tone Reproduction Curves are not very different from Excurves, except that the measured values are taken from the press and not from paper or media.

The Tone Reproduction application on the Brisque lets you create, modify and delete Tone Reproduction curves and then apply a Tone Reproduction to your exposure.



Note: Before you begin the Tone Reproduction procedure, make sure that the Excurve calibration has been performed and is correct.

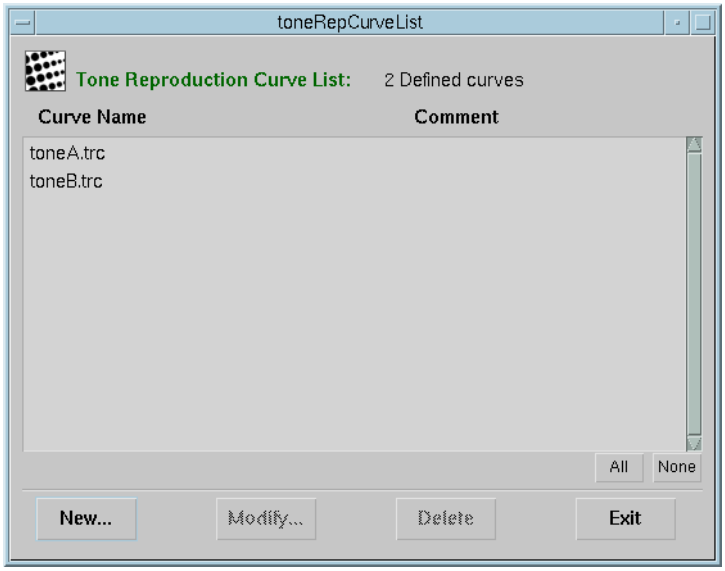
Creating a Tone Reproduction Curve

You can create a new Tone Reproduction curve in one of two ways:

- Create a curve from scratch
- Modify an existing curve, then save it under a new name.

To create a new Tone Reproduction curve from scratch:

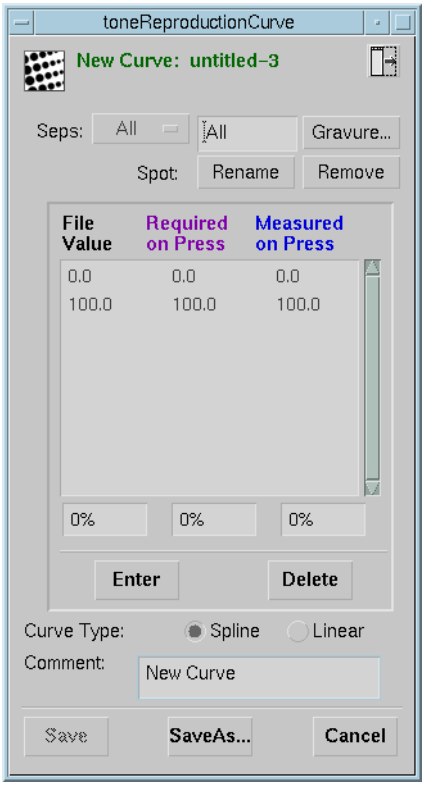
1. From the Brisque Launch Pad, double-click the **Devices** icon. The Output Devices Handling window opens.
2. From the Output Devices Handling window, click the arrow next to a device type, then click the arrow next to a device.
3. Select a device configuration; the device operations are enabled.
4. Click **Tone Reproduction**. The Tone Reproduction Curve List dialog box opens.



5. To select one or more files from the Tone Reproduction Curve List, click them one at a time; the selected files are highlighted.

Note: To cancel the selection of a file, click it again.

6. From the Tone Reproduction Curve List dialog box, click **New**. The Tone Reproduction Curve dialog box opens.



7. Select the separations to which the new curve will apply. Click **Seps** and select one of the options; type the exact name of the color separation into the **Seps** box and click **Enter.**

Note: You can delete a spot color by selecting it and clicking **Remove**. You can rename a spot color by selecting it, clicking **Rename** and typing in the new name.

8. **Entering Tone Reproduction curve values**. The Edit Curve dialog box shows the Tone Reproduction Curve values:

   - **File Value** —standard reference values based on a test exposure. Creo recommends using 21 different file values.
   - **Required on Press**—user-defined values for the density that is required on press. These values are based on correction values made by an experienced technician, or intentional distortions used for special effects.
   - **Measured on Press**—the density values measured on the press after the Job is printed. Tone Reproduction automatically compares the measured values against the file values and creates a curve that corrects for dot gain.

   To enter curve values, click **Enter** and type a value in the appropriate table cell.



Tip: For accurate results, be sure to zero the densitometer to a "ghost" dot area on the media before measuring the dot area.



Note: Percent values are rounded off to the nearest tenth of a percent.

9. **To modify curve values**, click on a row and modify the values.
10. **To delete curve values**, click on the row and click **Delete.**



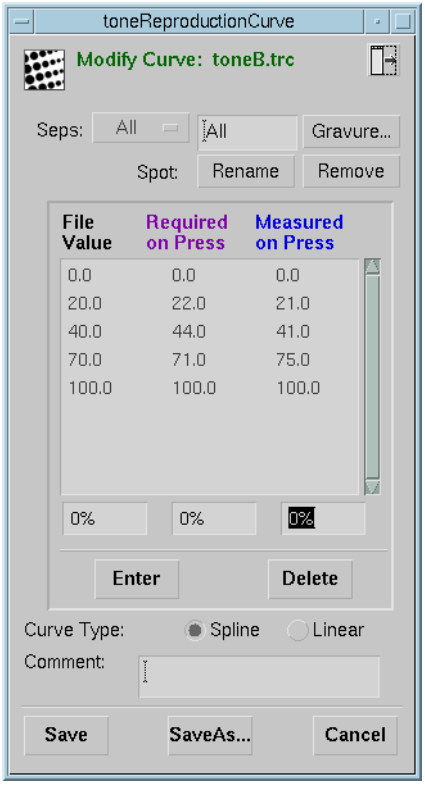
Note: The end-points (0,0 and 100.0) can't be modified or deleted.

11. You can view the Tone Reproduction curve, which is actually comprised of two curves, **Required** and **Measured**.
12. By default, the Curve type is **Linear.** If you want to smooth the curve, select **Spline** from the Curve Type list.
13. You can add a descriptive comment into the Comment box; this text appears in the comment column of the Tone Reproduction Curve List dialog box.
14. Click **Save As**; the Save As dialog box opens.

15. Type a name in the **Save this TR curve as** box and click **OK**; you are returned to the Tone Reproduction Curve List dialog box, and the new Tone Reproduction Curve is shown in the list.

To create a new curve based on an existing one:

1. Select a file from the Tone Reproduction Curve List.
2. Click **Modify.** The Tone Reproduction Curve dialog box opens.



3. Modify the Tone Reproduction Curve by performing steps 7 to 13 on page 44.
4. Click **Save As**. The Save As dialog box opens.



Note: To add a descriptive comment to the Tone Reproduction curve file, before saving the file, type a comment into the **Comment** box; this text is displayed in the comment column of the Tone Reproduction Curve List.

5. Type a new file name in the **Save this TR curve as** dialog box.

6. Click **OK**; you are returned to the Tone Reproduction Curve List dialog box.

To modify a Tone Reproduction Curve:

1. From the Tone Reproduction Curve File list, select a file, or files and click **Modify**. The Tone Reproduction Curve dialog box opens.



Note: If you selected more than one file from the list, multiple Tone Reproduction Curve dialog box opens.

2. Add, modify, or delete table coordinates as needed, according to the instructions.
3. Click **Save**. The file is updated, and you are returned to the Tone Reproduction Curve List dialog box.

To delete a Tone Reproduction Curve file from the list:

1. Select the file and click **Delete**. The system prompts you to confirm the delete command.
2. Click **OK**. The file is deleted, and you are returned to the Tone Reproduction Curve List dialog box.

Adding Spot Colors to the Seps List Box

Before you can build a custom Tone Reproduction Curve for a specific spot separation, the name of that separation must appear in the Seps list box. You can add, remove, and rename Spot Colors that are displayed in the list.

To add a Spot Color to the list:

1. Type the name of the color separation into the **Seps** box.
2. Click **Enter**. The spot color separation is added to the **Seps** list box.

To remove a Spot Color from the list:

1. Select a Spot Color from the list. The name of the selected color appears in the **Seps** box.
2. Click **Remove**. The color is deleted from the list box.

To rename a Spot Color in the list:

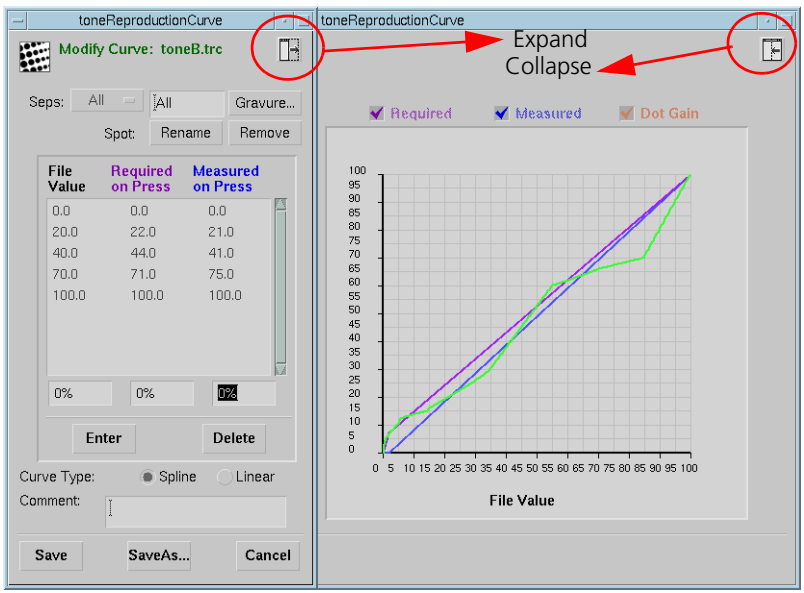
1. Select a Spot Color from the list. The name of the selected color appears in the **Seps** box.
2. In the Seps box, edit the color name.
3. Click **Rename**. The Spot Color is renamed.

Note: You cannot delete or rename any of the CMYK colors.

Viewing the Tone Reproduction Graph

The Tone Reproduction graph displays the curves created by the table values.

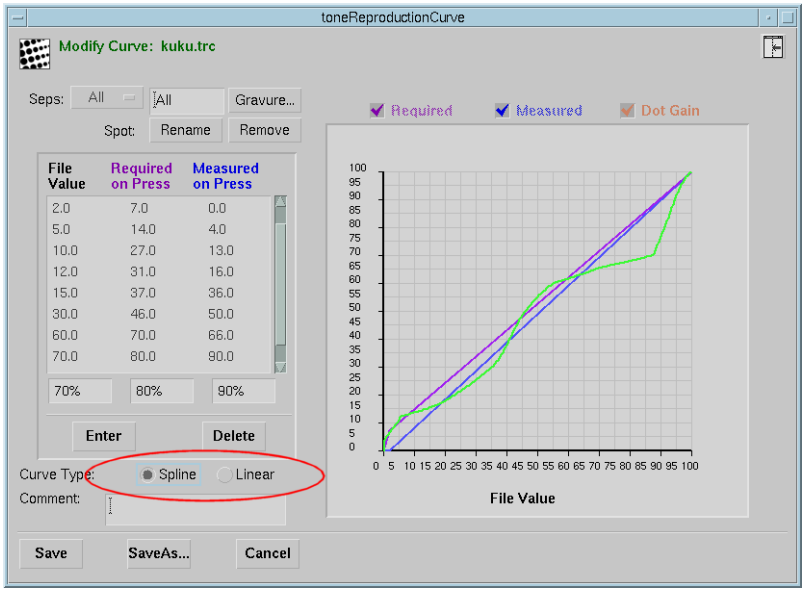
1. Click the **Expand** icon at the upper right corner of the Tone Reproduction Curve dialog box to expand the dialog box.



2. To display the Measured or the Required curve, select the **Required** or the **Measured** check boxes or both.
   - **Measured**—Displays the correction curve that the application automatically generates based on the numbers that are displayed in the File Value and the Measured on Press columns.
   - **Required**—Displays the user-defined curve based on coordinates made up of the values from the File Values and the Required on Press columns.
3. To view the Dot Gain graph, select the **Dot Gain**. This curve displays the discrepancy between the **Measured on Press** and the **Required on Press** values.
4. To close the Tone Reproduction graph, click the **Collapse** icon.

Controlling the Smoothness of the Curve

You can control the smoothness of the Tone Reproduction Curve (Dot Gain) with the Curve Type option. Smoothing adds points between the user-defined input points to smooth out the curve.



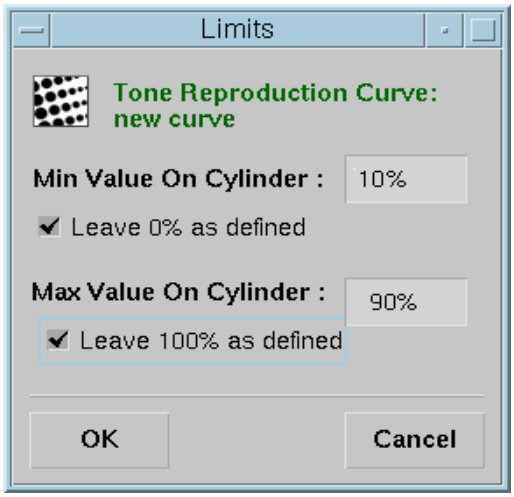
1. Select the **Spline** option from the Tone Reproduction Curve dialog box to activate smoothing of the curve; the smoothing effect on the graph can be viewed on the screen.
2. Select the **Linear** option to deactivate smoothing of the curve; the curve returns to its original form.

Defining a Curve for a Gravure Press

To print on a Gravure press, create a curve that limits the minimum and maximum reproducible dot percentages on the cylinder. Use the Limits window to define the maximum and minimum points of the curve. The maximum point is usually about 80%. The minimum point is usually 0%.

To configure the Maximum and Minimum points of the curve:

1. Click **Limits**. The Limits window appears.



2. In the **Min Value on Cylinder** box, type the minimum value.
3. In the **Max Value on Cylinder** box, type the maximum value.
4. To leave 0% at 0, select the **Leave 0% as defined** check box.
5. To leave 100% at 100, select the **Leave 100% as defined** check box.
6. Click **OK** to confirm the values and exit the Limits window.

Screen Sets

Screen Sets define the standard screening parameters that are used to expose a set of separations; the selected screen set is then applied to a Template or Job. The result is smooth dot formation and the ability to produce high screen frequencies with low output device resolution.

Screen Set Types

The Screen Set application on the Brisque supports TurboScreen.

Note: Depending on which Screen Set you select, the Brisque automatically channels the exposure via the appropriate screening board. During exposure, the progress indicator on the Brisque informs you which board is being used.

For more information on Screen Sets, refer to the *Screen Set* chapter in the *Brisque User Guide*.

Screening Name Conventions

Screen sets are named according to conventions created to help you identify them easily. These naming conventions are not mandatory.

Creating a Screen Set

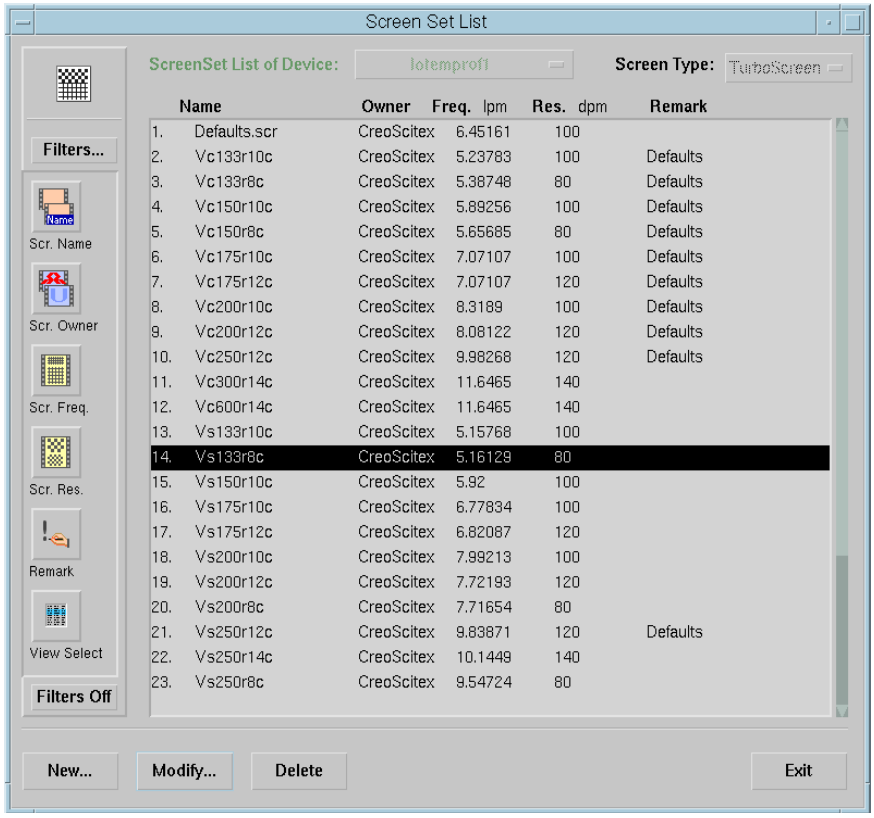
Normally, you create a new screen set by modifying an existing one, and then saving it under a different name. However, you can create a new screen set completely from scratch. In either case, the parameters you define are the same.



Tip: We strongly recommend you use the Creo-supplied screen sets whenever possible. Each supplied screen set has been carefully tested. Screen sets you create or modify may not yield optimum results.

To open the Screen Set List dialog box:

1. From the Output Devices Handling window, select a Lotem configuration.
2. In the Operations section, click **Screen Sets.** The Screen Set List dialog box opens and the available screen sets are listed.





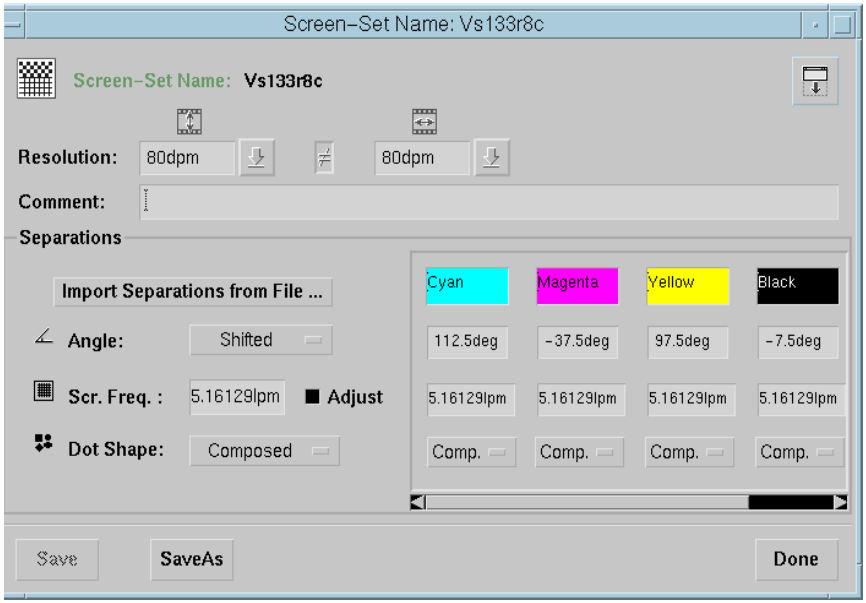
Important: A screen set listing CreoScitex as the owner cannot be modified or deleted. You can use a CreoScitex-owned file as a template on which to base a new screen set.



Various filters, listed on the left side of the Screen Sets dialog box, can be used when creating screen sets. For detailed information on using filters, see chapter 2, *Introduction to the Desktop* in the *Brisque User Guide*.

To create a new screen set based on an existing one:

1. From the Screen Set List dialog box, select the screen set on which you want to base a new one.
2. Click **Modify.** The Screen Set Name dialog box appears, with the name of the selected screen set in the **Screen-Set Name** box.



3. Change the screen set parameters as needed. (See *Basic Screen Set Parameters* on page 56 and *Advanced Screen Set Parameters* on page 63).
4. Click **Save As**. The Save As dialog box opens.
5. Type a screen set name (follow the naming conventions).
6. Click **OK** to return to the Screen-Set Name dialog box.
7. Click **Done**. You return to the Screen Set List dialog box. The new screen set is added to the list and the defined owner is User.

To create a new screen set from the scratch:

1. Click **New** on the Screen Set List dialog box.
2. Define the Screen Set parameters. (See *Basic Screen Set Parameters* on page 56 and *Advanced Screen Set Parameters* on page 63).
3. Click **Save As**. The Save As dialog box opens.
4. Type in a Screen Set name (follow the naming conventions).
5. Click **OK** to return to the Screen-Set Name dialog box.

6. Click **Done** to return to the Screen Set List dialog box. The new Screen Set is added to the list and the defined owner is User.

Modifying a Screen Set

You can modify all user-defined screen sets, except CreoScitex screen sets.

To modify a Screen Set:

1. From the Screen Set List dialog box, select a screen set and then click **Modify**. The Screen-Set Name dialog box appears.
2. Change the screen set parameters as needed. (See *Basic Screen Set Parameters* on page 56 and *Advanced Screen Set Parameters* on page 63).
3. To revert to the original screen set parameters, click **Reset**. All the newly defined screen set parameters are canceled.
4. Click **Save** to save the changes you have made to the screen set parameters. You return to the Screen Set List dialog box.



Tip: The **Save** button is unavailable when the owner of the Screen Set is CreoScitex.

Deleting a Screen Set

You can delete one or more screen sets at a time from the Screen Set List dialog box. You cannot delete CreoScitex screen sets.

To delete a Screen Set:

1. From the Screen Set List dialog box, select one or more files. The selected files are highlighted. To remove a file from the selected group, click it again.
2. Click **Delete**. A message appears, prompting you to confirm the Delete command.
3. Click **OK**. The selected screen sets are removed from the list.

Basic Screen Set Parameters

Whether creating a new Screen Set or modifying an existing one, the following options are available from the Screen-Set Name dialog box (see page 54):

- Resolution
- User comments
- Base separation parameters that include: Angle, Screen Frequency and Dot Shape.

Defining the Exposure Resolution

The Resolution of the output device determines the number of "laser dots" rows exposed per linear unit. Typically either 94.488 or 100 dpm.

Note: Resolution is related to Screen Frequency, but the two terms should not be confused. Screen Frequency is the number of rows of "printed dots" per linear unit. The difference between the two is based on the fact that a "printed dot" is constructed from a number of "laser dots".

To define the image resolution:

1. In the Screen Set Name dialog box, click the arrow to the right of the **Height** box, and select a value from the list.

   Note: If the button between the **Height** and **Width** boxes displays an equal sign, the **Width** box automatically displays the same value as the **Height** box. In most cases, the height and width resolution values should be equal.

2. To define different height and width values, click the button between the **Height** and **Width** boxes to toggle to the unequal sign.
   If you then want to change back to the equal sign, click the unequal sign; the **Width** box automatically displays the value of the **Height** box.

   Note: The **Height** and **Width** Resolution boxes support values with a precision of 5 decimal places.

Adding User Comments

You can add a descriptive comment to the Screen Set file. The comment will appear in the Remark column of the Screen Set List, and can help you identify a particular Screen Set.

To generate a comment, click in the **Comment** box and type in an identifying comment such as **create date**, or **used for**.

Defining the Base Separation Parameters

These parameters define how each separation is exposed on a plate:

- Angle
- Screen Frequency (Screen Ruling)
- Dot Shape.

You can define a parameter that is applied to all separations, or you can customize a parameter for specific separations:

- To apply to all separations, enter the parameter values in the boxes on the left side of the window.
- To customize a parameter for a specific separation, use the boxes on the right side of the window; enter the values beneath the separation name.

Angle Set

To designate the screen angles for the different color separations. Angle set options are: **Conventional, Shifted**, and **Pseudo Conventional**, which modify the angles set in the default Screen Sets. These variations are a result of extensive laboratory and field tests, designed to prevent moiré and other interference patterns.

1. **To define an Angle set**, click the **Angle** button and from the menu, select an Angle set option. The screening angles for each separation, as defined by the Angle set, appear in the angle boxes beneath the separation names.
2. **To customize the screening angle for a specific separation**, click inside the **Screening Angle** box in the column below the separation name, and type in a new angle.

When screening a Job containing Spot Colors, the resulting Plate Expose always outputs the Spot Colors at 45 degrees, regardless of the Spot Angle parameters defined in the Screen Set.



Tip: When Angles are set to 45 degrees for any CMYK color separation, you can set the automatically fine-tune all Screen Frequency values (including Spot colors) to prevent patterns. To use this feature check the **Adjust Scr. Freq.** box. You can also enter an Angle value of 0, but a Screen Frequency adjustment only for that particular color separation will be calculated.

Screen Frequency

The Screen frequency, also known as screen ruling or mesh, determines the number of “printed dots" rows per millimeter, that are exposed on the plate.

Common screen frequencies range from 3 - 12 lpi. Screen frequencies defined in the default Screen Sets provided by Creo have been calculated to give the best dot structure and to be least likely to produce unwanted patterns.



Tip: Screen frequencies above approximately 7 lpi typically result in different dot gain characteristics on press. To compensate for this, use a Tone Reproduction curve. See *Tone Reproduction* on page 42.

To define a Screen Frequency for all separations, select the **Adjust** check box and type a value in the **Scr. Freq.** box.

To define a Screen Frequency value for each separation separately, enter the value in the **Screen** box in the below each separation.

Dot Shape

You can select one of the following halftone dot shape for the Screen Set separations:

- Composed
- Round
- Diamond
- Square
- Geometric
- FULLtone
- Composed+
- Diamond+

To define a dot shape for all separations, from the **Dot Shape** box select an option. Dot shapes created by the User Dot application are then listed at the bottom of the menu list, below the dividing line.

To define a dot shape for each separation, click **Dot Shape** in the separation column and select an option from the list.



For further details on Dot Shape options, see chapter 40*, Defining Dot shape Parameters* in the *Brisque User Guide*.

Defining Additional Separations

Separations, other than Cyan, Magenta, Yellow or Black, encountered by any of the Expose applications (film, plate, cylinder or halftone proof) are screened according to parameters defined manually or automatically.



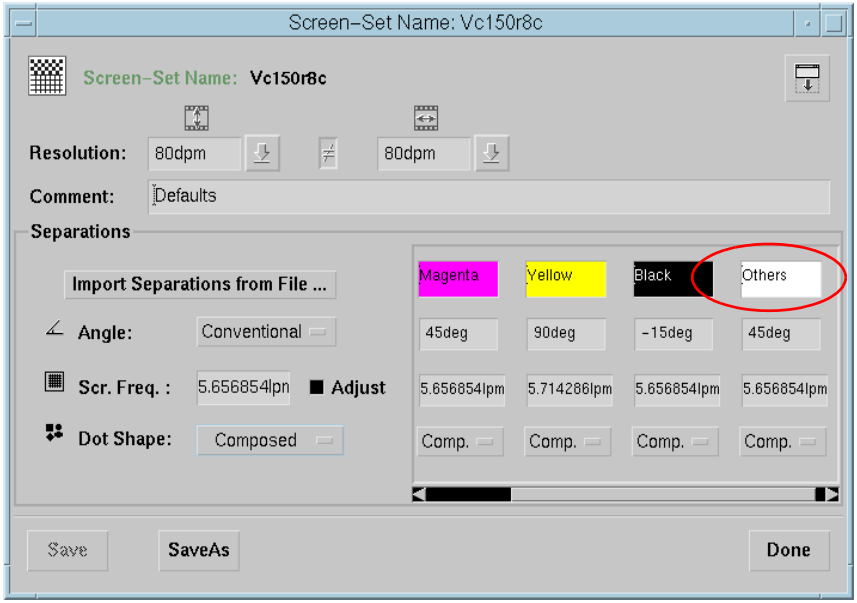
Note: The system enables up to 32 separations.

Manual Definitions

To define the parameters for additional separations collectively:

This option uses one parameter for all the Spot Colors.

➢ In the **Others** column, define the screen parameters for all additional Spot Color separations.



To define the parameters for additional separations individually:

This option enables you to manually create individual parameter sets.

1. In the Separations section, select **Others** and type the exact spot color name (case sensitive).

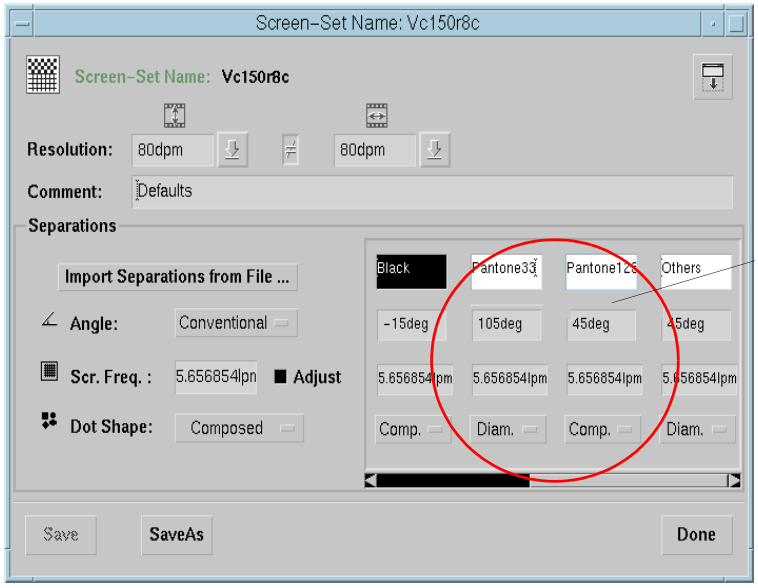
Note: Make sure to type the exact name of the color as it is labeled in the image file, or the system will not be able to identify it, and will apply the **Others** parameters to it.

2. In the boxes underneath, type the angle, screen frequency and dot shape parameters.

3. Press ENTER. The new spot color is added to the list of separations and a new Others column is created in the column to the right.

4. Repeat the procedure for every additional spot color you want to define individually.

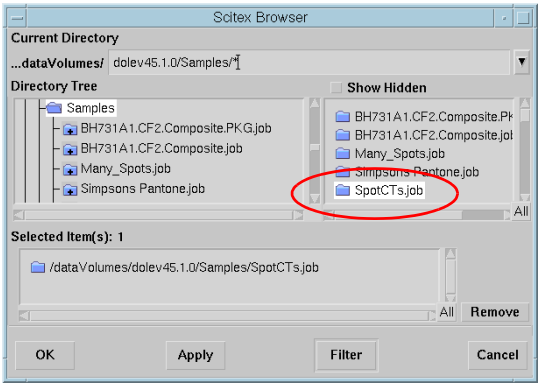
Note: The parameters set in the **Others** column cover all additional spot color separations not defined individually.



To select a file with spot color separations from the browser:

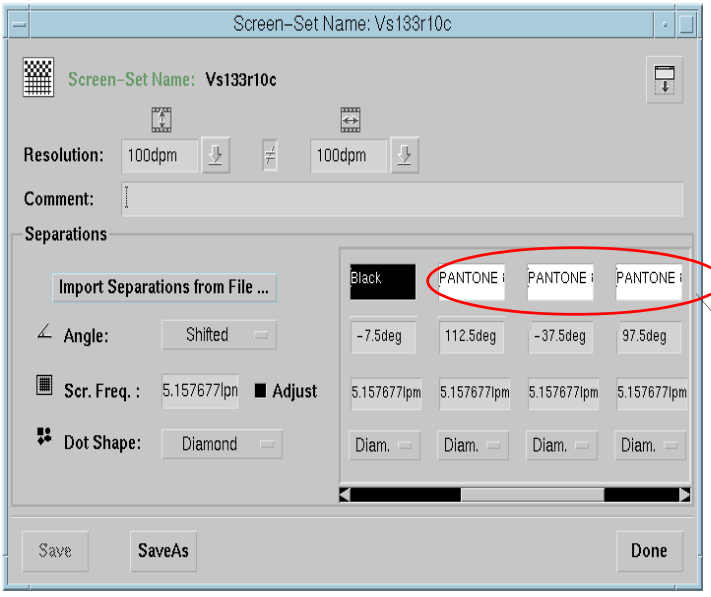
This option uses an imported file containing several special colors.

1. Click **Import Separations from File**. A browser dialog box appears.



2. In the **Show Hidden** box, select a file and click **OK**. The separations appear, each in its own column, in the Spot Colors section in the Screen-Set Name dialog box.

Note: When you use this option, each spot color is shown separately (use the scroll bar to pan right and left), and its parameters can be manually modified.



Automatic Definitions

Define automatic spot color separation parameters by selecting the **Cyclic Screen Set** check box in the output application window (Expose, Plate Expose, Halftone Proof and Screen2Go).

The **Cyclic Screen Set** check box assigns screen parameters to each spot color in an incremental cyclic pattern, using the parameters assigned to Cyan, Magenta and Black (CMK) separations.



Note: Yellow parameters are not cycled to avoid moire.

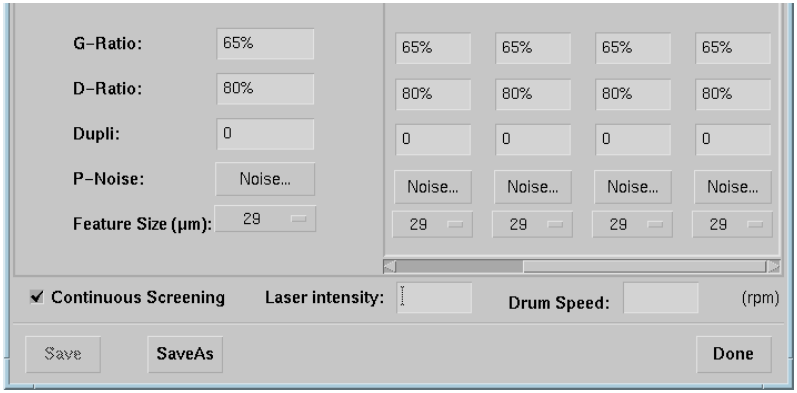
Advanced Screen Set Parameters

Advanced parameters should only be adjusted if you are familiar with screening. Otherwise, we recommend that you use the default setting. The available advanced Screen Set parameters include:

- Dot shape parameters
- Continuous screening
- Spinner (Drum) Speed

To display the Advanced Screen Set parameters:

➢ Click the **Expand** icon at the top right-hand corner of the dialog box to display the expanded Screen Set dialog box. (To collapse the Advanced Parameters section, click the **Expand** icon again.)



Defining Dot Shape Parameters

After selecting a dot shape, you can further define the dot shape parameters (depending the selected dot shape, some parameters may not be available):

G-Ratio values: In the **G-Ratio** box, type a value between 0 and 100 (%). The default G-Ratio is 65%.

D-Ratio values: In the **D-Ratio** box, type a value. If the selected Dot Shape is Geometric, you can define D-Ratio values from 1 to 20%. If the selected Dot Shape is Composed, Round, Diamond, Composed Enhanced, or Diamond Enhanced, you can define the D-Ratio values from 21 to 100%.

Dupli values: In the **Dupli** box, type a value between 0 and 9.

P-Noise values for Class and Traditional Screen Type: In the **P-Noise** box, type a value between 0% and 2000%.
For TurboScreen type you can define P-Noise range values that apply to a specific noise dot area range.

P-Noise values for TurboScreen type: Click **Noise**. In the Noise Params dialog box define the range, either in the **All Range** or **Noise Ranges** boxes (0-2000%).

Feature Size: In the **Feature Size** box, select a value from 10 to 320 µm.

Minimum spot size: In the **Spot Size** box, select a value ranging from 10 to 320 mm. For details see chapter 40, *Defining Dot Parameters* in the *Brisque User Guide.*

Defining Continuous Screening

Use this option when exposing multiple images at zero gap on one plate, and you want to ensure continuous screen calculation between adjacent images.

Adjusting the Spinner Speed

Use this option to regulate the speed of the spinner motor. When unwanted effects appear on the plate as a result of the vibration of the platesetter, you may want to adjust the speed of the spinner motor.

To adjust the Spinner Speed parameter:

- In the **Spinner Speed** box, type a value. If you type a value beyond the range of the connected output device, an error message displays the acceptable range.



Note: For TurboScreen sets, the spinner speed value is selected from a list of pre-defined speeds.

3

Processing a Job on the Lotem 800 II / Lotem Quantum from the Brisque Workstation

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Performing a Plate Remake 90
Sending the Job for Long Term Storage....95

Overview

This chapter outlines the basic steps of processing a Brisque Imposition Job on the Brisque, from preparing the alignment Page and Layout elements, to direct plate exposure, and then storage in the Brisque database. Also, we show how to perform an emergency plate remake using the Quick Re-Expose feature.

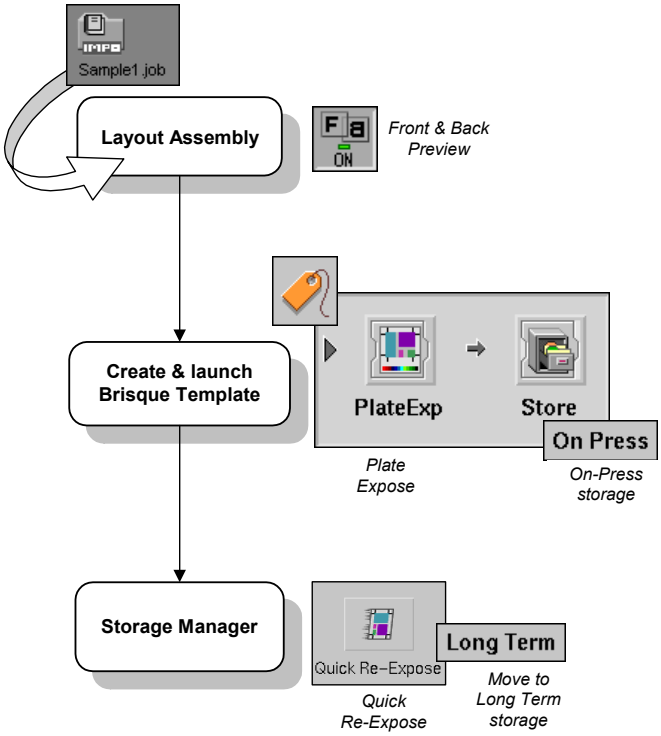


Figure 3: Lotem Quantum typical workflow on Brisque - Preview > Plate Expose > Store > Storage Manager. See next page for description of flow.

Basic Brisque operations for Lotem Quantum:

1. Launch the **Preview** application to view the imposition layout of a single Signature Layout with front and back flats, and verify the alignment of its Page elements on both flats.
2. Design a new **Brisque template**, containing the **Plate Expose** and **Store** operations.

3. Define the **Plate Expose** and **Store** before processing the Job.
4. **Submit the Imposition Job** to the Brisque template, which automates direct exposure to plate on your platesetter.
5. Imposition Job is sent to the storage database in **On Press** mode.
6. If required, perform an emergency plate remake (for example, in case of a damaged plate) using **Quick Re-Expose** in the **Storage Manager** application.
7. After the damaged plate is re-exposed, the stored Job and predefined attachments (pre-RIP and Marks files) are moved to **Long Term storage mode** for archiving.

Sample Workflows

The following sample workflows include Send. The parameters of the workflow are defined on the local Brisque, including the parts performed on a remote station.

Translate > Preview > **Send** > Plate Expose

The Job is translated and previewed on the local Brisque, automatically sent to the remote station defined by Send, and exposed according to the Plate Expose parameters defined by the template on the local Brisque.

- PreFlight Check > RIP > FAF > **Send** > Plate Expose

The PreFlight Check, RIP, and FAF are performed on the local Brisque; then, the Job is sent to the remote station defined by Send and exposed according to the Expose parameters defined by the template on the local Brisque.

- Preview > RIP > Plate Expose > **Send**

The Job is previewed, RIPped, and exposed on the local Brisque, and then sent to the destination defined by Send. The defined destination can be a folder on the local or remote Brisque, or on a Creo server.

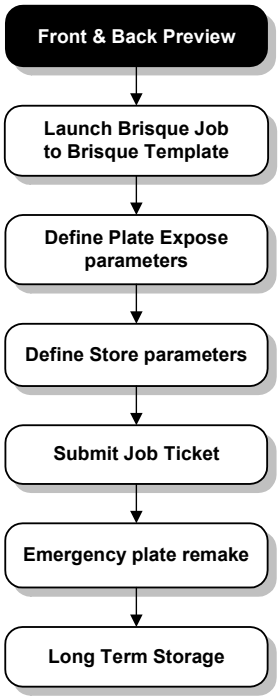
- RIP > Preview > **Send** > Proof > Hold > **Send** > Plate Expose > **Store**

The Job is RIPped and previewed on the local Brisque, and then sent to a remote Brisque for proofing. Due to Hold, you can check the proof before returning the Job to the Queue. Once you release the Job from hold, it is sent to another Brisque for Expose, and when the Expose operation is complete, the Job and all its elements are sent, using Store, to a temporary or final destination for storage.



Note: Although **Proof** and **Plate Expose** are performed on remote Brisque stations, the template on the local Brisque defines the parameters.

Aligning Signature Elements



In this chapter you will launch the **Preview** application on a single signature Layout with front and back flats. This is particularly useful in a filmless CTP environment, allowing you to reposition and correct the signature elements on the screen, without returning to the Imposition file in **Preps**, and thereby preventing the need for wasting test plates to confirm alignment.

We refer to a Brisque Imposition Job as the sample Job in this chapter. Browse the contents of your Brisque volume to find a similar type of file, that contains two Layouts with either four or eight Pages in each flat (that is, an 8-up 16 Page Imposition Job for the Lotem 800 II / Lotem 800 II Quantum or a 4-up 8 page Imposition Job for the Lotem 400 Quantum).



The complete functionality of **Preview** is described in the *Previewing Imposition Jobs* and *Working with a Layout* chapters in the *Brisque 4.0 User Guide*.

Front and Back Preview

Using Front and Back Preview in the Preview application, you can confirm the alignment of the front and back flats within a Signature. By repositioning the Pages within the Layout section, you can easily correct the Signature without having to return to the Imposition file.



Note: Front and Back Preview is only available for an Imposition Job with double-sided Layouts.

The following terminology describes the way flats are related to in the Front and Back Preview tool:

Front	Refers to the upper flat of a printed Signature.
Back	Refers to the lower flat of a printed Signature.



To switch the Front and Back Preview mode on or off:

From the Preview Layout toolbar, click the **Front-Back Preview** tool; the tool displays the **ON** or **OFF** status.

When the Front and Back Preview mode is activated, the front flat displayed in the foreground is shown over the back flat (the back flat appears as a mirrored/flipped image, depending on the Working style defined in the Imposition parameters in the **Preps** application).



Note: The flat displayed in the foreground is bordered in blue, and the flat displayed in the background is bordered in black.



Tip: To save processing time and work quicker, you should switch to **Nicknames** display mode while using the Front and Back Preview.
If you want to work in the Low Res Images display mode, we suggest that you use a high zoom-in factor on the area you are checking for alignment.

Changing Signature View between Front and Back Flat

You can view the Signature from either the front flat or the back flat (you can bring either flat to the foreground). This allows you to view and manipulate the alignment of both flats belonging to a Signature.

The back flat appears as a mirrored or flipped image (depending on the Working Style defined in the Imposition parameters).



To switch the front flat or the back flat to foreground:

Click one of the two **Front-Back Switch** tools; the foreground flat is bordered in blue, and the background flat is bordered in black.



The foreground flat is displayed on the screen overlapping the background flat. Any area of a Page from the background flat not covered by a Page from the foreground flat can be seen. You can align the Page and mark elements of the front flat with those on the back flat (or vice versa) by repositioning the elements. See *Aligning Front and Back Elements in a Signature* on page 73.

Viewing Background Flat Through Foreground Flat

When you first activate the Front and Back Preview mode, the flat displayed in foreground is superimposed over the flat in background. Initially, the degree of transparency is 0%, such that only areas of the background flat not covered by elements from the foreground flat can be seen. In this section, we describe how to set the degree of transparency.

The following transparency modes are available (depending on your View mode):

- Ghosting
- Masking



To activate ghosting or masking:

Click the **Transparency** tool. To cancel ghosting/masking, click the tool again.



To increase the degree of ghosting (in Low Res Images and Quick Preview display modes):

From the Preview Layout toolbar, click the **Increase Ghosting** tool.



To decrease the degree of ghosting (in Low Res Images and Quick Preview display modes):

From the Preview Layout toolbar, click the **Decrease Ghosting** tool.

Aligning Front and Back Elements in a Signature

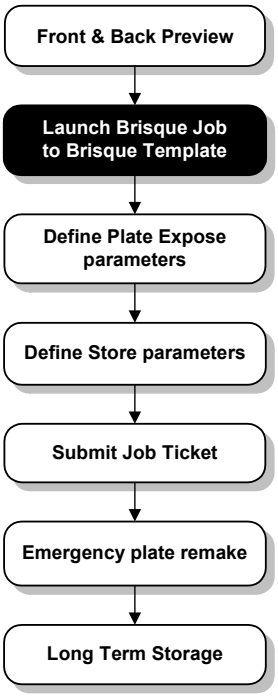
When ghosting or masking is activated, you can reposition Page and mark elements so that the front flat is completely aligned with the back flat.

Repositioning is only possible with elements on the foreground flat (bordered in gray) and moved in relation to the stationary elements in the background flat (bordered in black).



Tip: To obtain a high level of accuracy when aligning elements, use a high zoom-in factor, **AND** reposition the elements by dragging with the right mouse button (this is much faster than using the Parameters window to manually reposition the elements).

Launching the Job to a Brisque Template

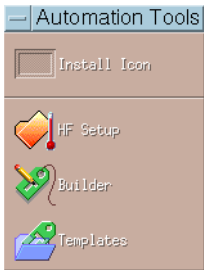


After you confirm the alignment of the Page and Mark elements in the Imposition Job, process the Job via a Brisque template to expose the entire Job directly to plate, and to store the Job and its contents in the On Press mode.

Before launching your Job to a Brisque template, we will help you create a new Brisque template containing the **Plate Expose** and **Store** operations.

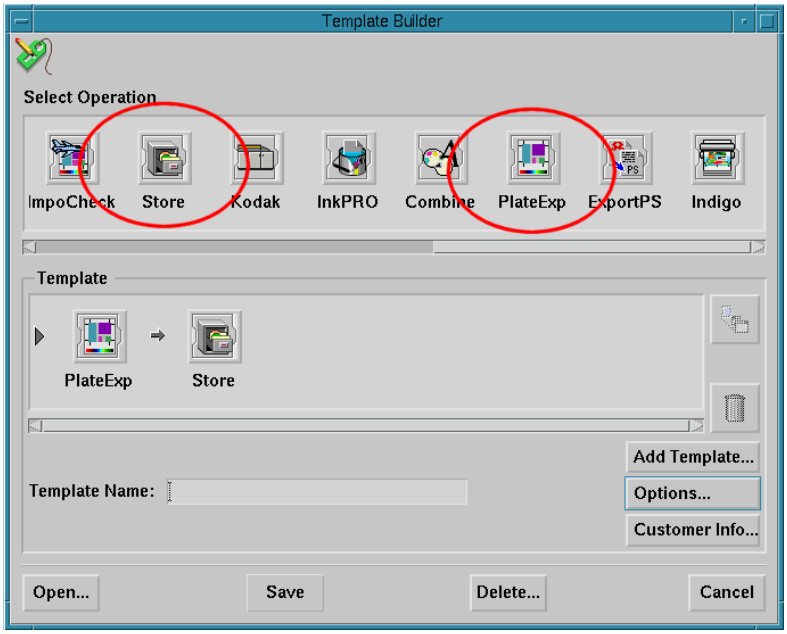
To create a new Brisque template:

1. From the Brisque Launch Pad, open the **Automation Tools** panel.



2. Double-click the **Builder** icon. The Template Builder dialog box opens.

3. From the **Select Operation** pane in the Template Builder dialog box, click the **Plate Expose** icon and then the **Store** icon. The selected operation icons appear in this sequence in the **Template** section.



4. The storage location must be defined before the template is saved. From the Template Builder dialog box, double-click the **Store** icon.

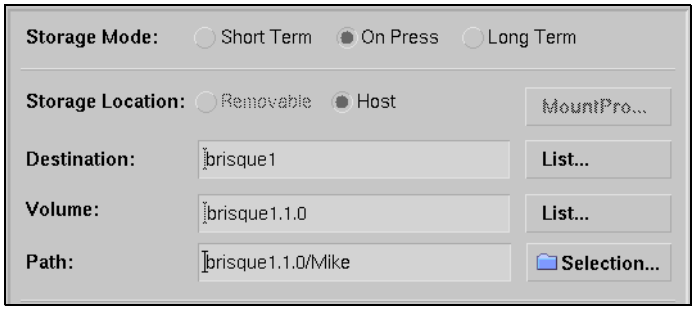
5. From the Store Parameters dialog box that appears, select the **On Press Storage Mode** (refer to the dialog box on next page). This will enable you to perform an emergency plate remake later on.

6. The **Destination** option is automatically selected as the **Storage Location** when the **On Press** storage mode is selected.

Note: On Press storage allows you to store files on a local or remote Brisque volume (that is, Host). This enables quicker retrieval of the Job in the event of an emergency plate remake. **Short Term** or **Long Term** storage allow you to store files on a local or remote Brisque volume, or on removable Jaz media (that is, Removable).

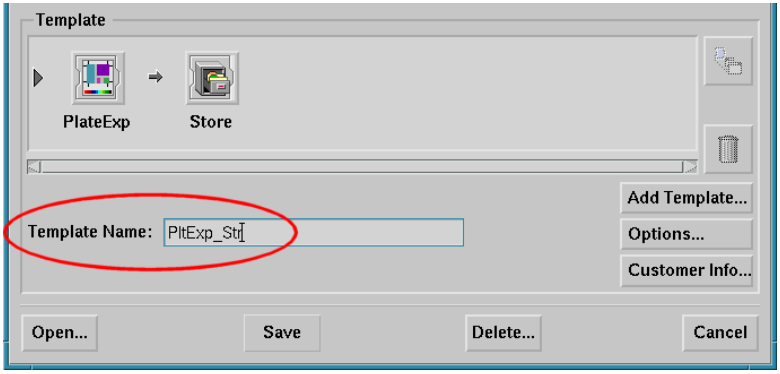
7. Define the **Destination**, **Volume**, and **Path** parameters of the storage location on the destination storage device.

See *Store* in the *Brisque 4.0 User Guide* for complete instructions.



Important: Creo suggests to use a Brisque volume that is dedicated for data storage with restricted access to general users. Data, copied to this volume by the Store operation, that is deleted or moved will cause the **Quick Re-Expose** and **Resume to Queue** operations to fail, since data is retrieved from the storage Destination Location folder and then copied to the Source Location.

8. In the **Template Name** box, enter the name of the template, **PltExp_Str.**

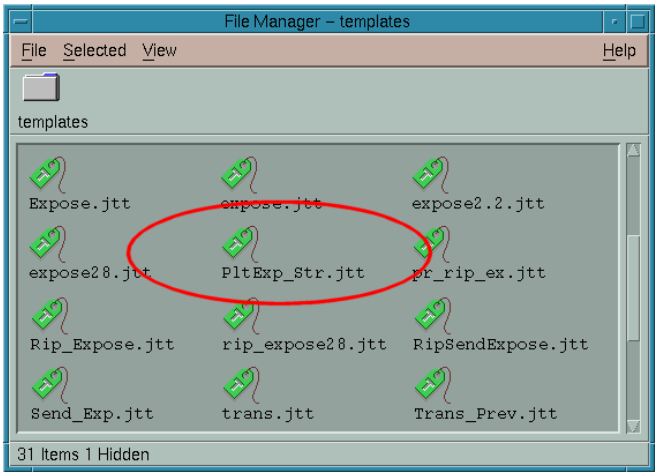


9. Click **Save.** The template is saved and stored in the local Brisque Template folder.

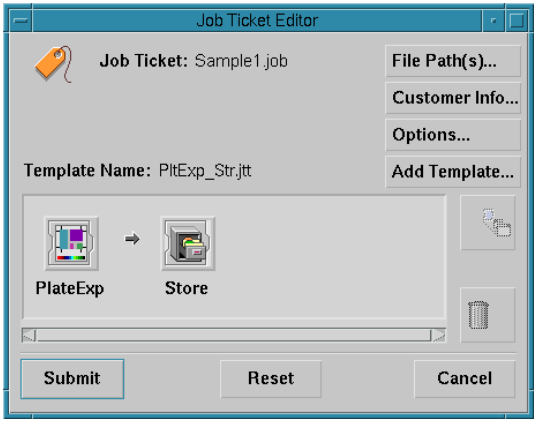
You will define the final processing parameters for the Plate Expose and Store operations for this template **on the fly** at a later stage (see page 78 and page 85), before processing your Imposition Job on the Brisque.

To launch the Job (Imposition, Packaging, or Single-Page Job) to the Brisque Template:

1. From the Brisque Launch Pad, open the **Automation Tools** panel.
2. Double-click the **Templates** icon. The Templates dialog box opens. Notice the template you just designed.

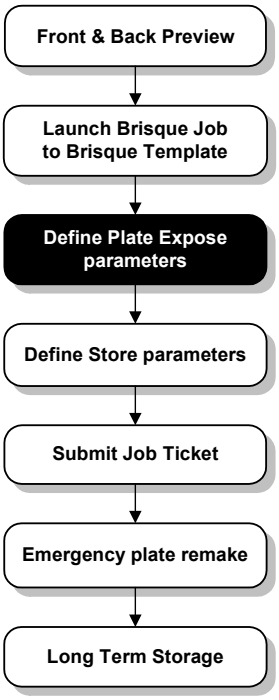


3. Keep the Templates dialog box open on the desktop.
4. Using the Brisque file browser: locate the Imposition Job file that you want to process (this is the file that you modified using **Preview**). In this example, we used the file, **Sample1.job**.
5. Drag the Job icon to the **PltExp_Str.jtt** icon in the Templates dialog box. The Job Ticket Editor dialog box opens.



Note: The Press Format and Plate Set are examples. The Lotem 800 II / Lotem Quantum support plates and presses from various vendors, and Creo does not promote a specific company.

Defining the Plate Expose Parameters



The Plate Expose parameters define exactly how a Job is exposed on your platesetter, for example, positive/negative exposure, Layout rotation and orientation, image offset, and separation handling. You will also select the Press Format, Punch System, Plate Set, and Screen Set, Calibration Excurve and Tone Reproduction Curve to be applied to the plate exposure.

Plate Expose supports Brisque Imposition Jobs. Plate Expose preserves the relative position of the images, as defined by the Imposition application originally used to design the imposition, such as **Preps.**

To modify the Plate Expose parameters on the fly:

1. From the **Job Ticket Editor**, double-click the **PlateExp** icon. The Plate Expose dialog box opens.

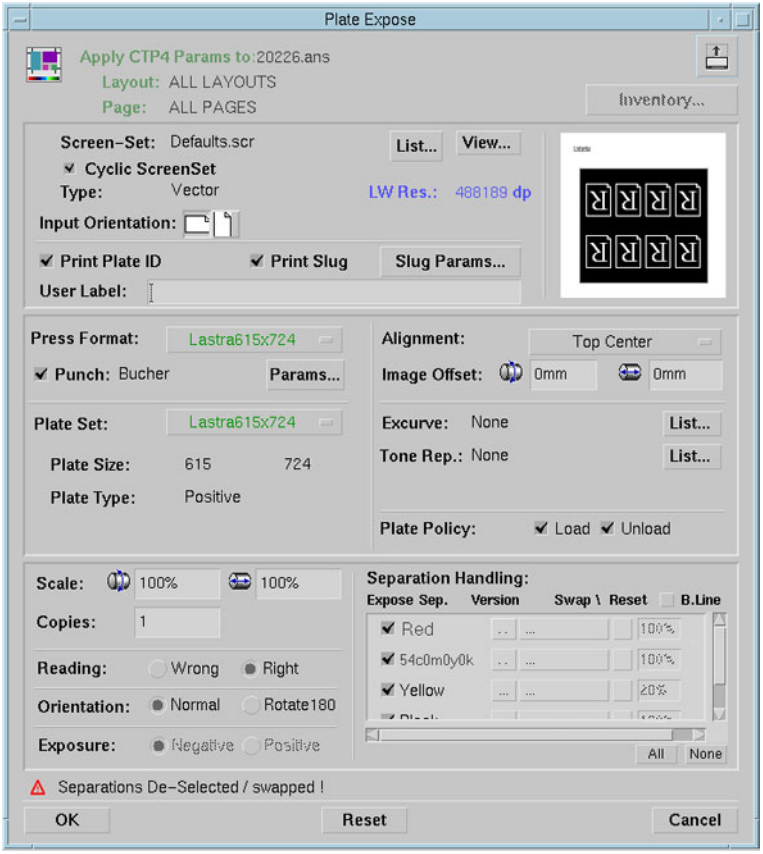


Figure 4: Typical Plate Expose parameters for output to Lotem 800 II

2. From the **Press Format** menu, select the relevant **Press Format** from the list of Press Formats defined in the **Devices** application on the Brisque. The default Press Format is the one last selected in the **Devices** application.

Note: If the parameters of the selected **Press Format** match the selected **Plate Set**, its name appears **green**. If they do not match, the Press Format name appears **red**. The criteria for a mismatch between the Press Format and Plate Set are plate size and plate thickness.

3. The currently selected **Punch** system(s) is listed in the Punch box.
   - To use the listed punch, make sure the **Punch** check box is selected.
   - Click the **Punch Params** button to view the Punch parameters which include Plate Set, Plate Size, Exposable Area, Punch System, and a punch thumbnail. Defaults are according to predefined parameters of the selected Press Format, and are imported from the **Devices** application.
4. Define the [0,0] offset reference point on the plate.

   From the **Alignment** menu, select either **Top Left** or **Top Center**.

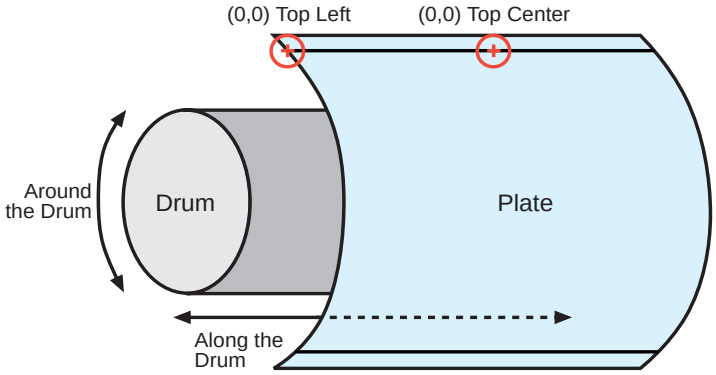


Figure 5: [0,0] reference offset points on plate relative to drum.

See page 84 for further details on image placement.

5. Define the image offset in the **Image Offset** boxes.

   The Image Offset parameter shifts the Layout on the plate from the [0,0] reference point (**Top Center** or **Top Left** alignment - see previous step). Exposure begins from this position.

6. When the PC controller and Brisque are online, the **Plate Set** shows the plate set that is selected in the Plate Expose dialog box. The plate size and plate type of this plate set are listed below it.



Note: Online mode is when the three-way connection between the platesetter, Brisque and PC controller is secure. In this mode, Plate Set is a read-only parameter.

If the selected **Plate Set** matches the selected **Press Format**, its name appears **green**. If they do not match, the **Plate Set** name appears in **red**. The criteria for a mismatch between the **Plate Set** and **Press Format** are plate size and thickness.



Tip: We recommend that you create specific Hot Folders or Job Templates for each **Press Format**.

7. The Screen Set box displays the currently selected **Screen Set**.
   - Click **List** to select a different Screen Set from the **Screen Set List**.
   - **Cyclic Screen Set—**assigns screen parameters to spot colors using the parameters assigned to Cyan, Magenta and Black (CMK) separations in an incremental cyclic manner. For example, if the file contains Cyan, Magenta, Yellow, Black and five spot colors, spot color 1 will be assigned the Cyan parameters, spot color 2 - the Magenta parameters, spot color 3 - the Black parameters, spot color 4 - the Cyan parameters, spot color 5 - the Magenta parameters, and so on.



For a detailed description of Brisque Cyclic Screen Sets and Screen Sets, refer to the *Exposing to Plate* and *Screen Sets* chapters in the *Brisque 4.0 User Guide*.

8. Select **Print Plate ID** to print the Plate ID.

   Each exposed Job is designated a unique Plate ID number. The separation color is added to the suffix of the Plate ID number.

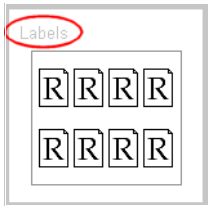
   Using the **Quick Re-Expose** feature from the **Storage Manager** application on the Brisque, the Plate ID is used to quickly identify a particular plate you may want to remake in the event of a plate press emergency (for example, a plate that is damaged, scratched or bent).



See *Performing a Plate Remake* on page 90.

9. Select **Print Slugs** to print slugs in the plate head margin (that is, time, date, Job name, separation name, flat name, and Screen Set name) together with your plate exposure.

10. When you select Print Slugs, the word **Labels** appears in the R-icon graphic in the upper left corner of the screen.



- Click the **Slug Params** button to select which slugs to print and to define the Slug offset. Assign the settings from the CTP Slug Params dialog box that opens.

Note: The Plate ID is always printed to the left of the Slug, however you can reposition the offset of the Plate ID slug in the CTP Slug Params dialog box.

- Enter text within the **User Label** box to add a descriptive label to the slug (the **Print Slugs** check box must be selected).

11. The Excurve box shows the currently selected **Excurve** calibration file which corrects for density and dot percentage variations. To assign a different Excurve, click the **Excurve List** button, and select the Excurve file you calibrated in *Excurve Calibration* on page 27.

Note: This parameter is optional. You may expose the image without applying an Excurve file.
The Excurve must be selected according to the Plate Expose defined by the selected **Screen Set** and according to the **Excurve Auto Select** parameters that were defined in the **Calibration** application.

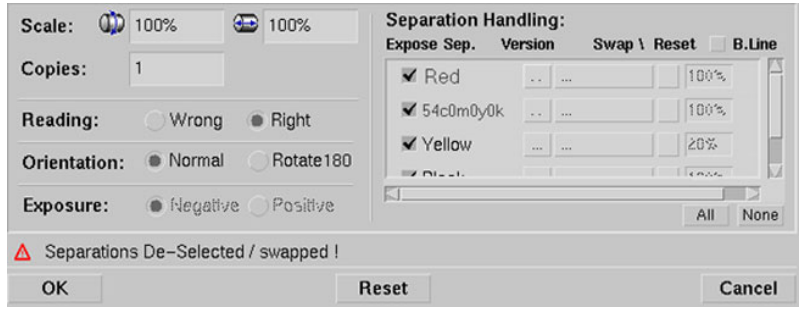
12. The Tone Rep. box displays the currently selected **Tone Reproduction Calibration Curve** to be applied to the exposure. To assign a Tone Reproduction Curve, click the **Tone Rep. List** button, and then select a predefined Tone Reproduction Curve file.

Note: This parameter is optional. You may expose the image to plate without applying a Tone Reproduction curve. For information on Tone Reproduction Curves, see *Tone Reproduction* on page 42.

13. Define the **Load/Unload Plate Policy**:
    - Select **Load** to automatically load a new plate before the exposure begins.
    - Clear **Load** when you do not want the machine to load a new plate before the exposure begins.
    - Select **Unload** to automatically unload the plate when the exposure is finished.
    - Clear **Unload** when do not want the machine to automatically unload the plate when the exposure is finished. This enables you to reuse the plate for additional exposures.

Note: The LW Res. box shows the **LW resolution**, as defined by the selected Screen Set.

14. Click the **Expand** icon to display additional Plate Expose parameters.



15. Set **Copies** to the number of times each exposure is output (up to 10 copies).
16. Define the **Reading**, and **Orientation** parameters. See *Defining the Plate Expose Geometry* on page 83.

Note: **Exposure** is set according to the plate type and cannot be changed.

17. Define the **Separation Handling** options, which include:
Expose Sep.—-to select the separations to be exposed.
Version—to merge base separation with additional separations for different versions (see *Versioning* in the *Brisque 4.0 User Guide* for details).
Swap—to swap the screening parameters between separations.

18. Click the **Inventory** button (in upper right corner of the Plate Expose dialog box) to open the Inventory dialog box and customize the Plate Expose parameters for selected Pages/Layouts, and/or to exposure specific Pages/Layouts.



For details, see the *Exposing Directly to Plate* chapter in the *Brisque 4.0 User Guide*.



Note: Inventory is available only when using the **Job Ticket Editor** to define the Plate Expose parameters for a specific Job file that has multiple Pages or Layouts.



Important: In the Inventory dialog box, you can select different Screen Sets for each Page, however each Screen Sets must have the same resolution.

19. Now that you have completed defining the Plate Expose parameters, from the main **Plate Expose** dialog box, click **OK** to return to the Job Ticket Editor dialog box.

    Continue to the *Defining the Store Parameters* on page 85 to define the **Store** parameters **on the fly**.

Defining the Plate Expose Geometry

This section explains how to define the geometry and nature of the plate exposure using the following options in the main Plate Expose dialog box (see *step 17* on page 82):

- Reading
- Rotate
- Input Orientation

The R-icon below the Inventory button in the Plate Expose dialog box illustrates the current settings:

Reading—select **Right** to leave the layout unrotated, or **Wrong** to horizontally flip the entire Layout.

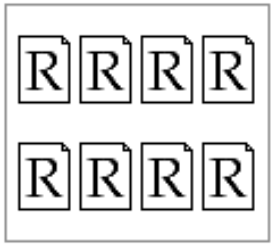


Figure 6: Right Reading

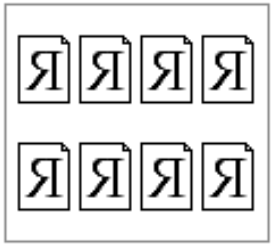
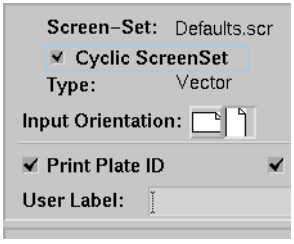


Figure 7: Wrong Reading

Rotate & Input Orientation—select the image orientation (landscape or portrait), so that the application will automatically rotate the image when needed.

Note: The **Allow Input Orientation Selection** check box in the Plate Expose Preferences (Preferences **>** Output **>** Plate Expose) must be selected to view this option.



When exposed, a layout created in Preps must be rotated 180° to be aligned properly with the punch. Default orientation is Rotate 180°.

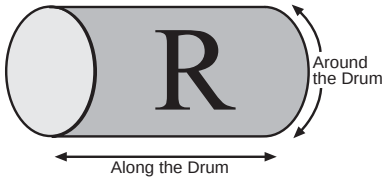
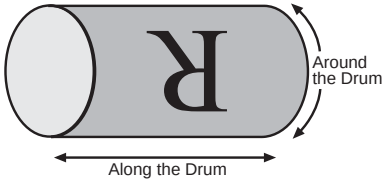
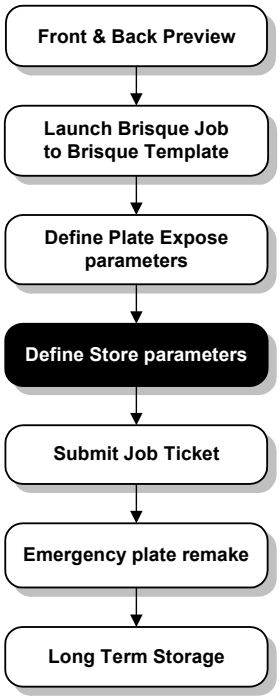


Figure 8: Orientation = Normal



Orientation = Rotate 180°

Defining the Store Parameters



In this section you will modify the Store parameters in the current Job Ticket so that the Job elements (original pre-RIPped files, post-RIP files, and plate-mark files) are stored in one of the available storage modes.

Initially, you store the Job in the **On Press** mode. The files are kept available for an immediate plate remake in the event of an unexpected plate emergency. After the entire Job is successfully exposed, you can move the stored Job to the **Long Term** mode.

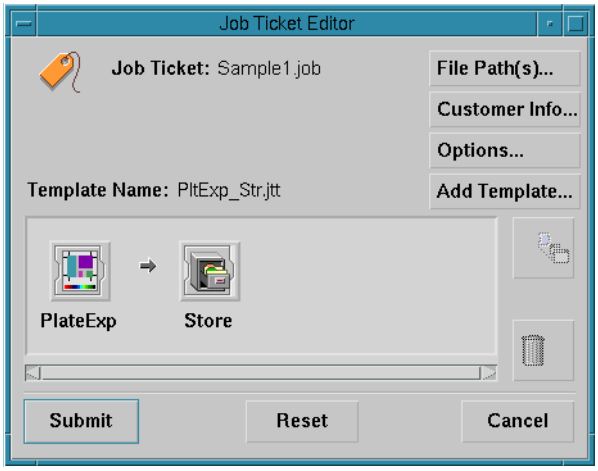
On Press storage normally lasts from several hours to days, and the Job remains in an on-hold state until you release it by promoting the stored Job to a higher Storage Mode status, or by advancing the Job to the next step in an automated Job Ticket workflow.

Long Term storage allows you to store completed Jobs that do not require further processing. You cannot perform a regular Brisque operation on a Job once it has been stored in the Long Term storage.

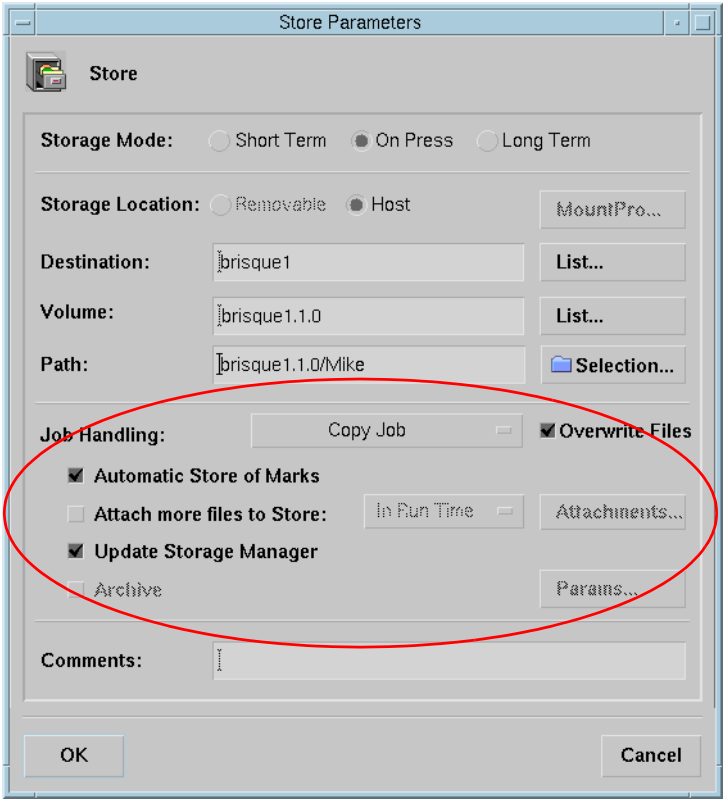
Important: You can only perform a **Quick Re-Expose** on a stored Job that has already been through at least one plate exposure.

To define the Store parameters on the fly:

1. After exiting the Plate Expose dialog box, you return to the Job Ticket Editor dialog box.



2. Double-click the **Store** icon. The Store dialog box appears.



You already defined the storage mode and storage location parameters when you created the Brisque template (see *page 74*). Continue to the next step to define the remaining Store parameters.

Job Handling parameters control the way the Brisque handles files during the Store operation, and define whether Job elements are copied or moved to defined destinations.

3. The Job Handling parameters include several options; select one of the following options from the pull-down menu:

   - **Copy Job—**to copy all Job elements to the destination location. The original Job file remains in its source folder.

- **Move Job—**to move the Job to selected destination location. Files are first copied to destination location and then deleted from the source folder. Pages and CT/LW files of an Imposition Job are copied to the destination location, but not deleted from the source folder. To automatically delete these files, use the **Move Job and Original Page** option (see below).
- **Move Job and Original Pages—**to move an Imposition Job. The same function applies as the Move option (see above), however the Pages and CT/LW files are deleted from the source folder after the entire contents of the Imposition Job are moved.
- **Overwrite Files—**to overwrite files with the same name in the destination folder. If this option is cleared, the Store fails when files with the same name exist in the destination folder.

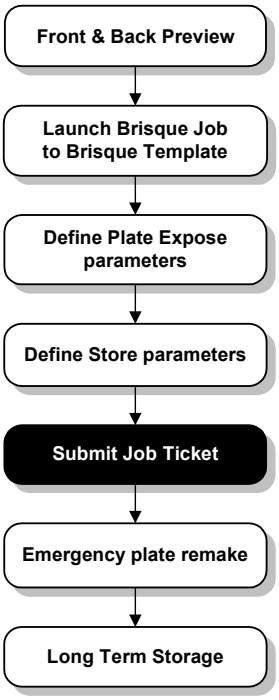


Note: Copy Job and Move Job also apply to files or Marks selected with the **Attachments** option (see following step). The Automatic Store of Marks option is currently unavailable.

4. Use **Attach more files to Store** to include original pre-RIP (for example, PDF or Postscript files) and/or plate-mark files with the stored elements of the Job.
   - Select **Attach more files to Store** for file attachment handling.
   - From the **Attach more files to Store** menu, select **In Run Time**. The **Attachments** button will become unavailable. When **Store** is activated during the automated Brisque workflow, you will be prompted to select the location and elements to be attached after the Plate Expose is complete - see *step 6* on page 89.
5. Make sure to select **Update Storage Manager** to inform the **Store** procedure to update the Storage Manager database on the Brisque.
6. The **On Press Store** parameters are now defined. In the main Store dialog box, click **OK** to return to the Job Ticket Editor dialog box.

The next section describes how to submit the Job Ticket for processing on the Brisque.

Submitting the Job Ticket for Processing



To submit the Job Ticket for processing:

1. After defining the **On Press Store** parameters you return to the Job Ticket Editor dialog box.
2. Click **Submit**. The Job Ticket is sent for processing. According to the current template, Plate Expose is the first operation in the Job Ticket.

Note: Follow the plate loading protocol and screen prompt on the Brisque, according to your platesetter model. See the *Plate Handling* chapter in the *User Guide* of your platesetter.

3. Double-click the **Queue** icon on the Brisque Launch Pad to launch the Queue Manager and view the progress of the Plate Expose.

Note: For details on the Queue Manager, see the *Queue Manager* chapter in the *Brisque 4.0 User Guide*.

4. The Queue Manager lists the Jobs currently being processed and the following Job information:
   - **Now Running—**Jobs currently being processed.
   - **Current—**current Job operation.
   - **Start Time—**start processing time and date of each Job.
   - **Next—**next Job operation (if there is one).
5. Click the **Expand** icon in the upper right corner of the Queue Manager or press the SPACEBAR to expand the window.

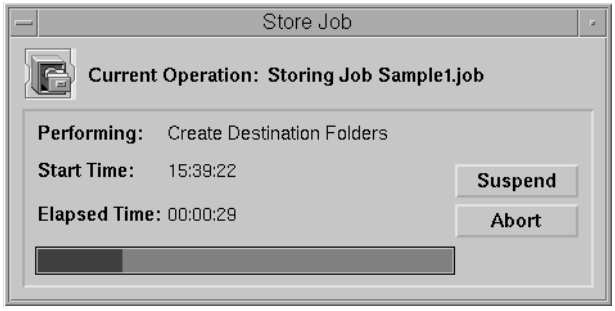
   The expanded Queue Manager shows the following:
   - Jobs waiting to be processed
   - Jobs placed on-hold
   - Failed Jobs
   - Completed Jobs.

6. Once the entire Plate Expose operation is complete, the Brisque automatically begins the **Store** operation (in On Press mode).

   Since **In Run Time was** selected in the **Attach more Files to Store** option (*step 4* on page 87), you are prompted to define the location of the Files and Mark elements to be attached.

   After selecting the elements to attach, the Brisque stores the defined Job elements and attached files from their source location(s) in the destination location (the destination storage location was set in the Store Parameters dialog box - see page 75). Since file attachments are part of the stored Job, subfolders are created within the new Store folder, one for File Attachments and one for Mark Attachments.

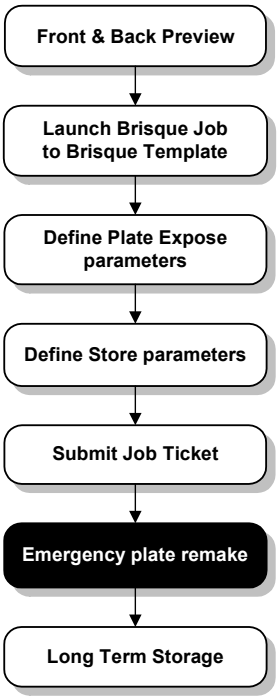
   The Store progress is shown in the Store Job dialog box.



When the Store operation is complete, you have finished processing the Job Ticket on the Brisque.

Proceed to the next section to perform an emergency plate remake of a single separation using the **Quick Re-Expose** feature.

Performing a Plate Remake



If your Job is currently stored in the Brisque storage database in the **On Press** mode (see *Defining the Store Parameters* on page 85), you can use **Quick Re-Expose** from the Storage Manager on the Brisque, to rapidly send any separation for a quick plate remake in the event of a plate emergency.

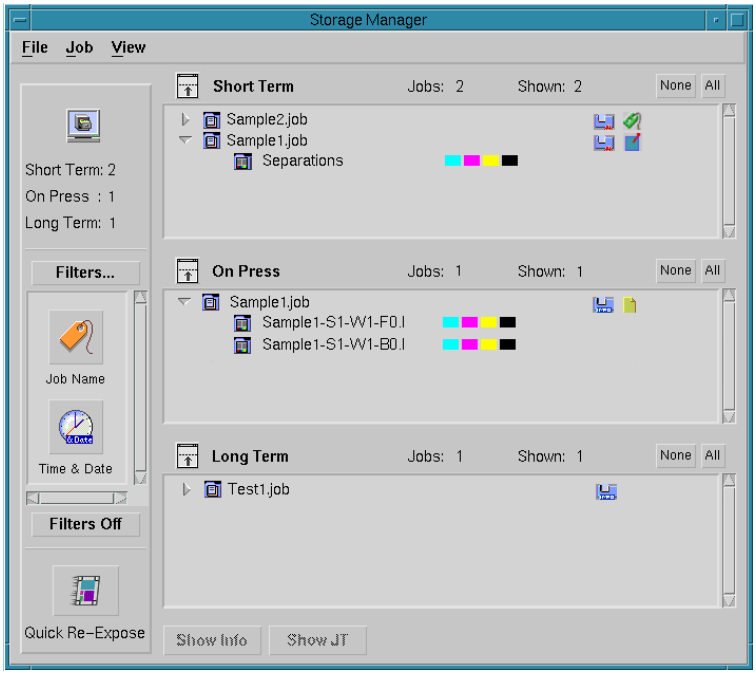
Quick Re-Expose can only be used if all these conditions are met:

- The Job is in the **On Press** storage mode.
- The Job has already been through at least one **Plate Expose** cycle.
- The Job and all of its elements are stored on a **local Brisque volume**.

The **Storage Manager** application has additional features for monitoring and managing Job files in the storage database. See the *Storage Manager* chapter in the *Brisque 4.0 User Guide* for more details.

To perform an emergency plate remake using Quick Re-Expose:

1. From the Brisque Launch Pad, open the **Management Tools** panel, then double-click the **Storage** icon to open the Storage Manager dialog box.

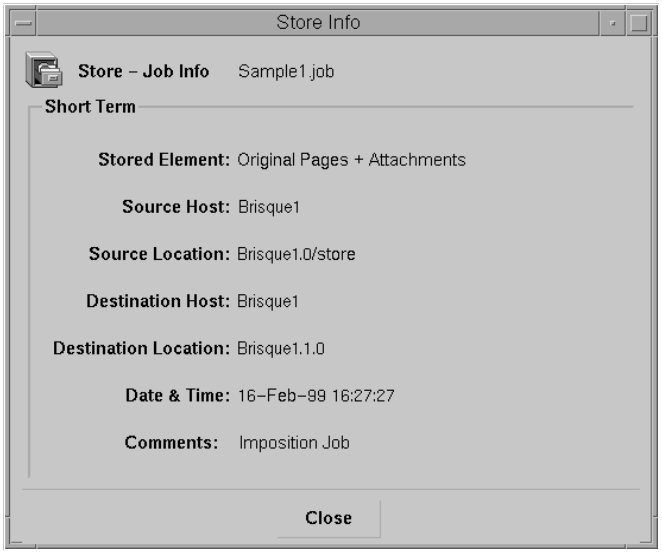


The Storage Manager dialog box displays stored Jobs according to their current storage mode: Short Term, On Press, or Long Term.

2. Select the Job **Sample1.job** from the Storage Manager list and click the **Show Info** button to open the Store Info dialog box.



3. The Store Info dialog box lists the Job storage information. Click **Close** to exit.

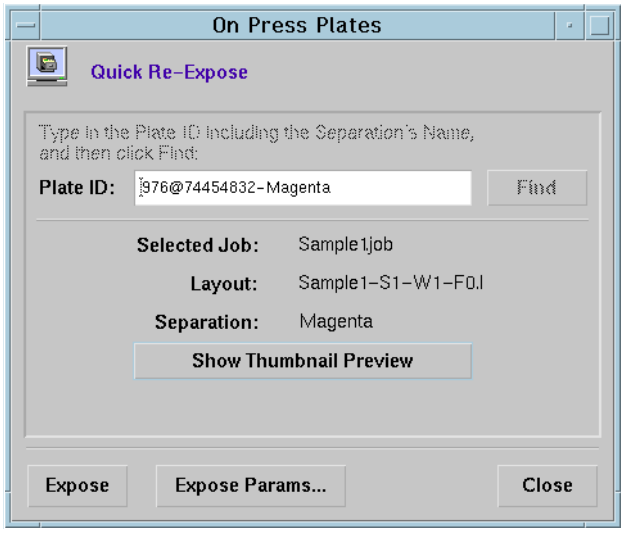


4. Click the triangle to the left of **Sample1.job** in the On Press section to list the Layouts and color separations of the Job.

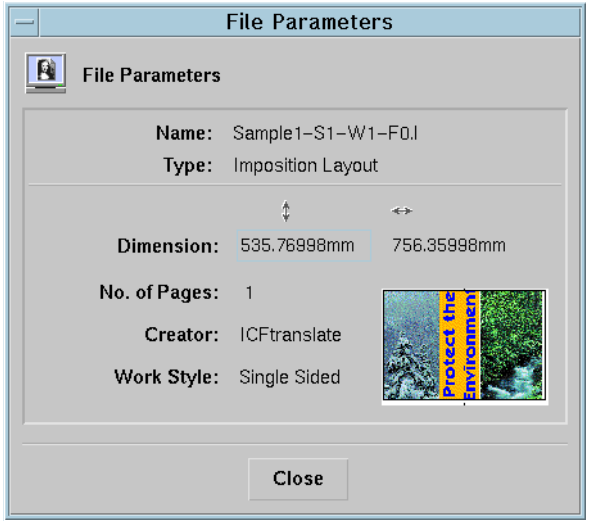
5. Double-click the **Magenta** separation box of the first Job Layout to perform a plate remake of that separation.



The On Press Plates dialog box opens with the Plate ID and Layout information of the Magenta separation.



6. Click the **Show Thumbnail Preview** button to view additional file information and a thumbnail preview of the selected Layout.



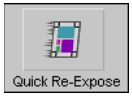
7. Click **Close** when you are finished.

8. From the On Press Plates dialog box, click **Expose** to submit the selected separation for re-exposure to plate using the Plate Expose parameters defined by the current Job Ticket. The elements of the stored Job are first retrieved from the storage location and copied to the source location.

   If the Brisque cannot perform the plate remake (that is, the conditions for a plate remake are not met - see page 90), the operation will abort and you will be informed.

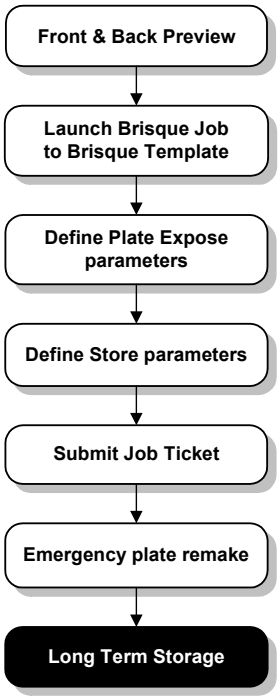
   To define new Plate Expose parameters before re-exposing the plate, click **Expose Params**.

Alternatively to sending a separation for re-exposure:



➢ Click the **Quick Re-Expose** icon in the Storage Manager dialog box. This however, requires you to manually enter the Plate ID of the separation into the Plate ID box of the On Press Plates dialog box.

Sending the Job for Long Term Storage



After you verify a successful plate remake, you can move your Job from On Press storage to Long Term storage.

Long Term storage collects Job files that do not require further processing and archives them. Once a Job is moved to the Long Term storage mode, you cannot perform regular Brisque operation on it. Only when the entire Job is manually retrieved from the archive and placed in an accessible Brisque volume can the Job be handled again.

The **Storage Manager** application keeps a log file for each stored Job. Each log file contains the storage location of the entire Job and a time log of the storage operation. The log file is stored on a local/remote Brisque volume, a Jaz disk (removable media), or on a server. The log file in the Storage Manager allows you to rapidly locate and retrieve the storage location of the archived Job and its attached elements.

Note: Modifying the Job Storage Mode is limited by the unique properties and limitations of each Storage Mode. See the *Storage Manager* chapter in the *Brisque 4.0 User Guide* for details.

To change the storage mode of a stored Job:

1. Launch the **Storage Manager** on the Brisque.
2. In the **On Press** section of the Storage Manager dialog box, select the Job **Sample1.job**.
3. From the **Job** menu, select **Move to Long Term Mode**. A Move confirmation prompt appears.



Note: Changing the Job **Storage Location** is the only parameter you can modify. You cannot modify the Attach Files or Job Handling parameters.

- Click **Yes** to change the Storage parameters; the Store Parameters dialog box opens and you can change the Job storage location.
- Or, click **No**; the existing Storage parameters for the Job will be used.

The Storage Manager stores the Job in the selected Storage Location and updates the Storage Mode of the Job in the Storage Manager list.

4

Configuring and Calibrating the Spectrum Platesetter from the Brisque Workstation

Configuring a Lotem Spectrum Halftone Proofer 98
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Configuring a Lotem Spectrum Halftone Proofer

Before configuring your platesetter as a Spectrum, you must first configure it as a Lotem 800 II / Lotem 800 II Quantum, and then as a Lotem Spectrum platesetter.

To configure your machine as a Lotem 800 II / Lotem Quantum, see *Configuring and Calibrating the Lotem 800 II / Lotem Quantum Family from the Brisque Workstation* on page 11.

To check if a Lotem Spectrum halftone proofer is configured:

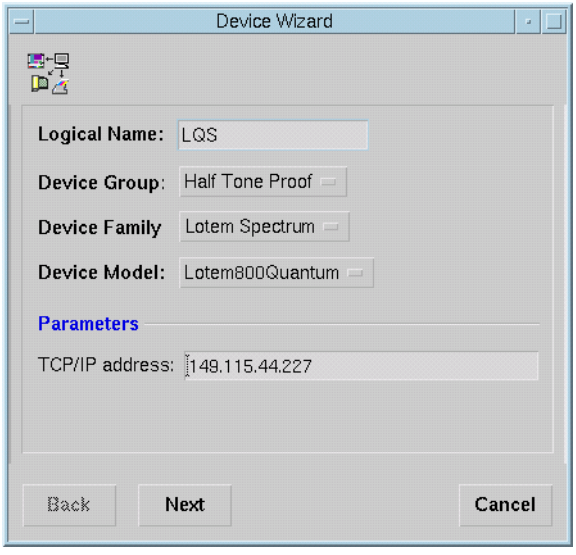
1. In the Output Devices Handling window, click the arrow next to the **Halftone Proof** icon.
2. Click the arrow next to the **Lotem Spectrum** icon. If a Lotem Spectrum is configured, the connection to Brisque is displayed under the **Lotem Spectrum** icon. The name is in green if it is the default halftone proofer.

Important: No more than one Lotem device is permitted.
If the device is a Lotem dual purpose device, it is necessary to configure the platesetter first.

To configure a new Lotem Spectrum halftone proofer:

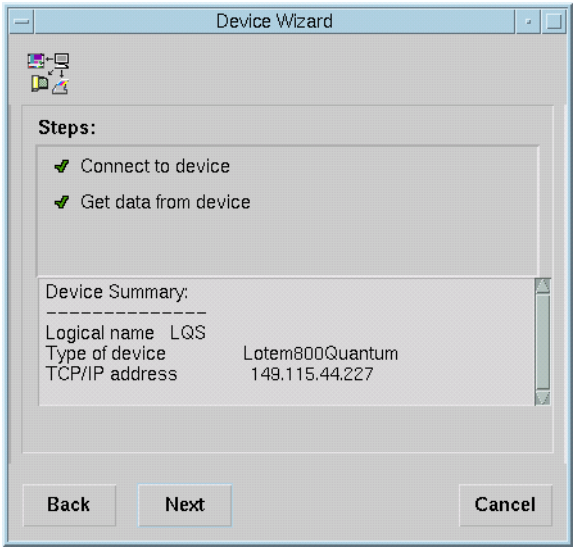
1. To connect a new Lotem Spectrum click **New.**

   The following window appears:



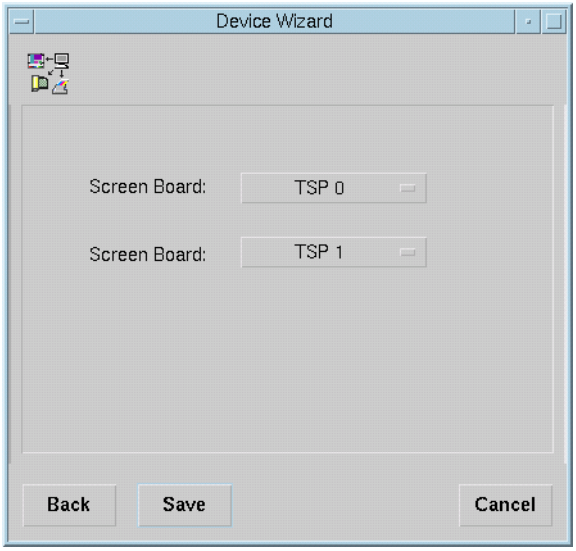
2. In the **Logic Name** box, type a logical name.
3. From the **Device Group** list box select **halftone Proof**.

   The **Device Family** list box is labeled Lotem Spectrum. The **Device Model** list box is labeled Lotem 800 Quantum.
4. In the **TCP/IP address** box, type the device address (for example: 192.9.100.2).



5. Click **Next**. The following appears.

   You can select **Disabled** from the Screen Board list box to operate with a single board.

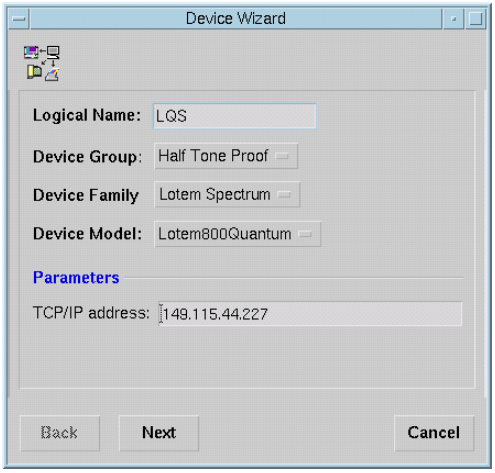


6. Click **Save** to save the configuration. If the connection was successful, a confirmation message is displayed for a few seconds. The connection is displayed in the Output Devices Configuration window under the **Lotem Spectrum** icon.

To modify the Lotem Spectrum halftone proofer parameters:

1. From the Output Devices Handling window, select the **Lotem Spectrum halftone proofer** configuration and click **Modify...**.

   The following window appears:



2. Change the **TCP/IP address**.
3. Click **Next**. If the selected Screen Board is in use, a warning dialog is displayed, enabling a halt of the device configuration to allow another board selection. If the new configuration was successful, a device summary is displayed.
4. Click **Save** to save the modification. If the update was successful, a confirmation message is displayed for a few seconds. The connection is displayed in the Output Devices Handling window, under the **Lotem Spectrum** icon.

To delete the Lotem Spectrum halftone proofer configuration:

1. From the Output Devices Handling window, select the desired **Lotem Spectrum halftone proofer** configuration and click **Delete**.

   The delete confirmation appears.
2. Click **Yes** to delete.

   The configuration is removed from the Output Devices Handling window.

To reconfigure the Lotem Spectrum halftone proofer:

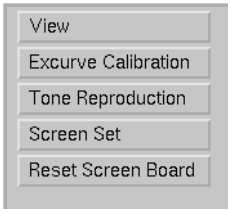
1. From the Output Devices Handling window, select the **Lotem Spectrum** configuration.
2. Click **Reconfigure**. Brisque reads the data from the device and confirms the connection. It displays a confirmation dialog for a few seconds, if the device has been re-connected. Otherwise, a failure message is displayed.



Important: In case of failure check the physical connection to the device, try to reconfigure.

Lotem 800 II / Lotem 800 II Quantum with Spectrum Operations

View



Allows you to view the device parameters, set in the PC Controller database.

To view the selected Lotem parameters:

1. Click **View**.

   The Lotem Spectrum parameters window, containing three tabs, appears.

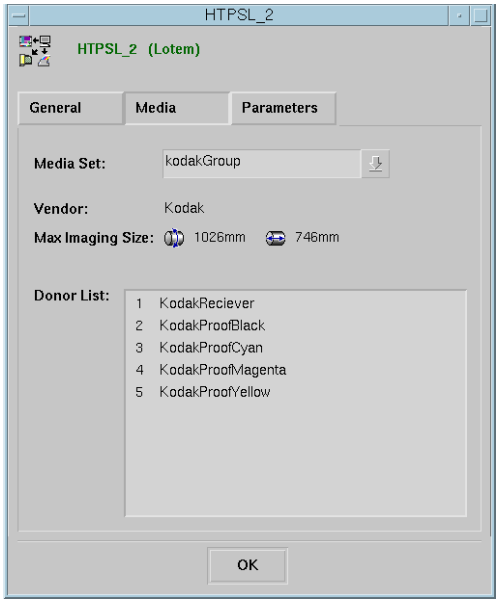
2. Click the **General** tab.

   The connection parameters appears:

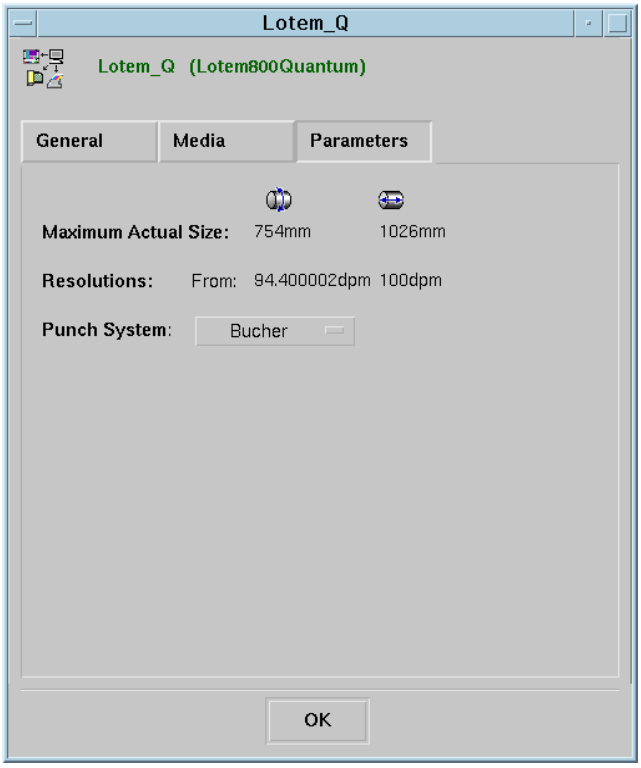


3. Click the **Media** tab.

   The media set containing the list of donors stored in the device, the vendor name and maximum image size appears:



4. Click the **Parameters** tab. The resolution range of the expose (60-140 dpi) appears:



5. Click **OK** to exit.

Tone Reproduction

In Proofing cases with the Lotem Spectrum, Tone Reproduction curves are created to compensate dot gain and to control **image tonality**.

The curves are built according to data measured off uncalibrated proof and according to pre-calculated correction tables supplied by the media vendor.

The Lotem Spectrum dialog box on Brisque allows you to apply a Tone Reproduction curve to your proof. The **Tone Reproduction Curve** application lets you create, modify and delete Tone Reproduction curves from Brisque.

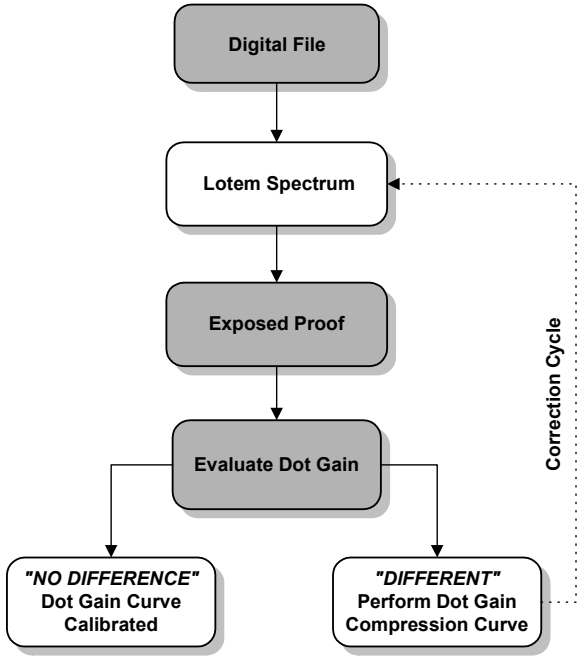


Figure 9: Tone Reproduction Curve Calibration Cycle

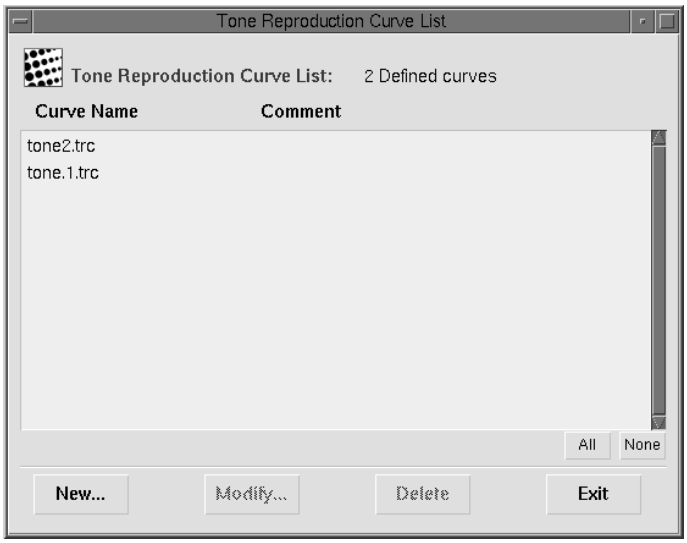
You can create a new Tone Reproduction Curve in one of two ways:

- Build a new curve.
- Modify an existing curve and save it under a new name.

In this guide we show you how to create a new calibrated Tone Reproduction Curve.

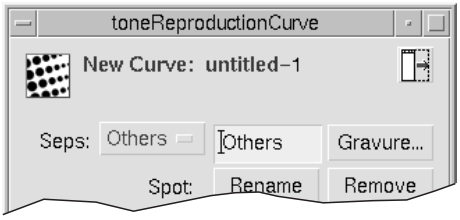
To create a new Tone Reproduction Curve:

1. From the Brisque Launch Pad, click the **Devices** icon.
2. From **Devices**, select **Half Tone** and then **Lotem Spectrum.**
3. Double-click the **ToneRep** icon. The Tone Reproduction Curve List dialog box opens.



4. In the dialog box, click **New**.

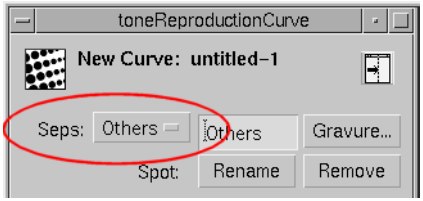
   The Tone Reproduction Curve dialog box opens.



5. Before you can build a custom Tone Reproduction Curve for a **Spot** separation, the name of that separation must appear in the **Seps** menu list.

   If you do not wish to create a Tone Reproduction Curve for Spot separations, then advance immediately to *step 6*.

   - **To add a Spot color to the list**, enter the exact name of the color separation into the **Seps** box, and press **ENTER**; the color appears in the **Seps** menu to the left of the box.



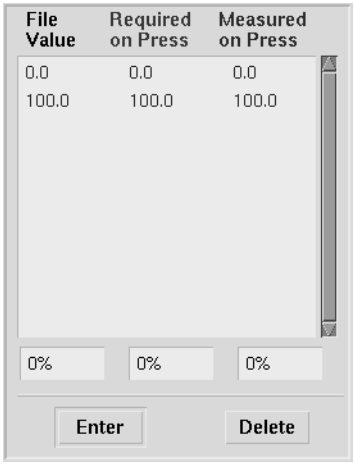
- **To remove a Spot color from the list**, select a spot color from the **Seps** menu. The name of the selected color appears in the **Seps** box. Click **Remove**. The color is deleted from the list.
- **To rename a Spot color in the list**, select a Spot color from the list; the name of the selected color appears in the **Seps** box.
  In the **Seps** box, edit the color name, and press **ENTER**. The spot color is renamed.

6. Designate whether the Tone Reproduction curve will apply to a single separation (for example, the Spot Color designated in the previous step) or to all separations.

   From the **Seps** menu, select an option:

   - For all separations, including Spot Colors, select **All**.
   - For a specific separation, select its specific color from the menu.
   - For all Spot Colors that do not appear individually in the menu list, select **Others**.

7. The table in the **Tone Reproduction Curve** dialog box contains three columns into which you enter values for creating a Tone Reproduction Curve:



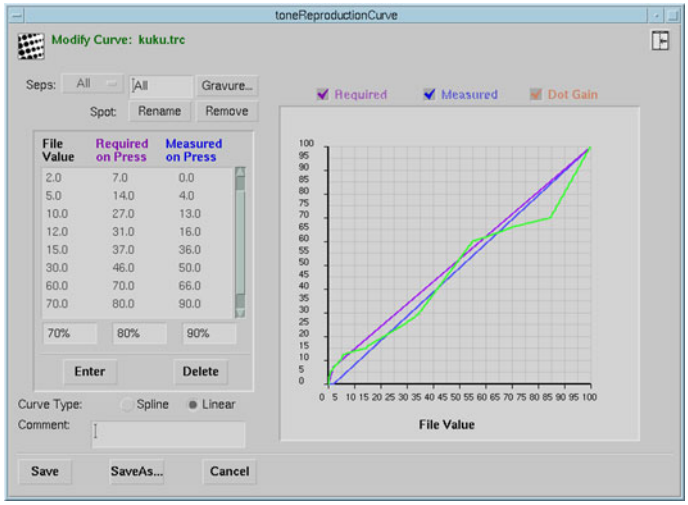
- **File Value—**contains standard reference values, taken from a test exposure. It's recommended to use 21 different file values.
- **Required on Press—**contains subjective, user-defined values for the density that is required on the proof. These values are either an approximation of the correction values, made by an experienced technician, supplied by the media vendor.
- **Measured on Press—**contains the density values measured on the proof after the Job has been exposed. The **Tone Reproduction** application automatically compares the measured values against the file values and creates a curve that makes the correction for dot gain.

8. Values entered into the three columns result in separate curves - **Required** and **Measured**. The two curves make up one Tone Reproduction Curve file. The exposure that uses the file is affected by both curves.
   - **To enter a set of co-ordinates into the table**, place the cursor in the box below the relevant table column and enter in a value. Use either the **TAB** key or the mouse to move between boxes.

Once you enter the co-ordinate values, click the **Enter** button; the co-ordinates appear in the table.

Note: Percent values are automatically rounded to the nearest tenth of a percent. The end-points (0.0 and 100.0) cannot be modified or deleted.

9. To display the Dot Gain curve created by the table values, click the **Expand** icon at the upper right corner of the Tone Reproduction Curve dialog box.



- **To display the Measured curve or the Required curve**, select either **Required** or **Measured**, or both to view both curves on the graph.

Measured	Displays the correction curve that the **Tone Reproduction** application automatically generates based on the **File Value** and the **Measured on Press** data.
Required	Displays the user-defined curve based on the **File Values** and the **Required on Press** data.

- **To view the Dot Gain curve,** click the **Dot Gain** check box.

Dot Gain	Displays the discrepancy between the **Measured on Press** and the **Required on Press** values.

10. To smooth out the Dot Gain curve, check **Spline**. Otherwise, check **Linear** to remove the curve smoothing. By default, the Linear option is checked.
11. You can enter a comment in the **Comment** box to be saved with the Tone Reproduction Curve file; this text appears in the comment column of the Tone Reproduction Curve List.
12. Click **Save As**; the Save As dialog box opens.
13. Type a name in the **Save this TR curve as** box and click **OK**; you return to the Tone Reproduction Curve List dialog box, and the new Tone Reproduction Curve is listed.
14. Click **Exit** to close the Tone Reproduction Curve dialog box.
15. You can attach the new Tone Reproduction Curve to any Brisque template when defining the template Lotem Spectrum parameters (see the *Proofing a Job from the Brisque* chapter).



For information on modifying and deleting existing Tone Reproduction Curves, refer to *Tone Reproduction* in the *Brisque 4.0 User Guide*.

Screen Set



See chapter 2, *Screen Sets* on page 51.

Reset Screen Board



See *Reset Screen Board* on page 22.

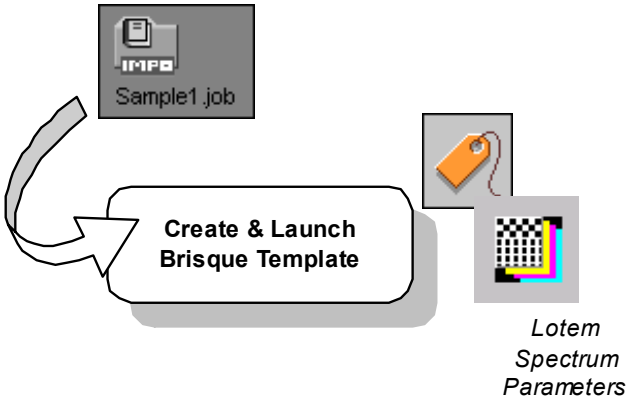
5

Proofing a Job on the Lotem 800 II / Lotem 800 II Quantum with Spectrum from the Brisque Workstation

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Separations Tab 126
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Overview

This chapter outlines the basic steps of proofing a Brisque Job on Brisque, starting with the definition of parameters and ending with submitting the Job onto the template.



Basic Brisque workflow for the Lotem Spectrum family users:

1. Designing a new Brisque **template**, containing the Lotem Spectrum.
2. Defining the **Lotem Spectrum** parameters. See *Defining the Lotem Spectrum Parameters* on page 114.
3. **Submitting** the Job to the Brisque template (this automates direct exposure on the Lotem Spectrum). See *Submitting the Job Ticket for Proofing* on page 130.

The Lotem Spectrum family supports the following kinds of Brisque jobs:

- Brisque **Imposition** Jobs

  These jobs preserve the relative position of images (that was defined by the application used to design the imposition, such as **Preps**).

  In addition, such jobs may be exposed in reader-spread mode, enabling the simulation of the actual layout (that is, **as it looks after binding**).

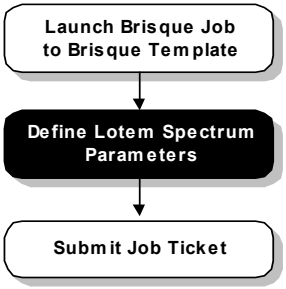
- Brisque **Single-Page** Jobs

  These jobs can be exposed using **Single** mode (one Job per receiver) or **Auto-Arrange** mode (in this mode, you can drag-and-drop several jobs onto one template, and use the same media).

- Brisque **Multi-Page** Jobs

  These jobs are exposed using **Auto-Arrange** mode (which automatically organizes the pages on the receiver).

Defining the Lotem Spectrum Parameters



The Lotem Spectrum parameters define exactly how a Job is proofed on your platesetter (for example, they define the orientation of the Layout, the image offset, and the way separations are handled).

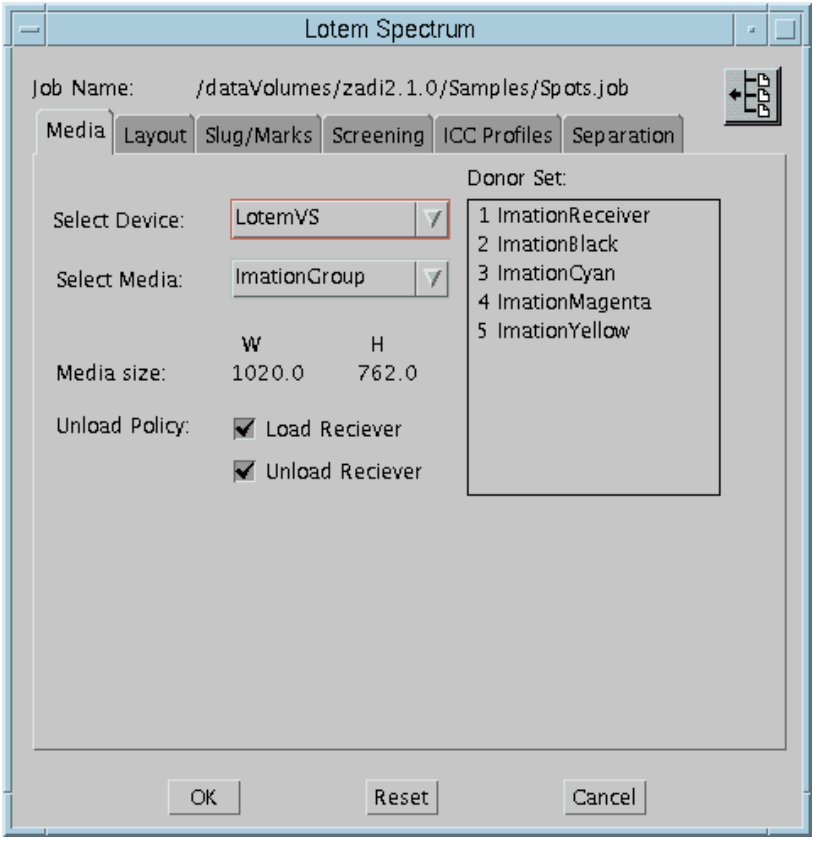
Among other parameters, you define the Group Set and Screen Set, and, if you wish, you may designate a Calibration Excurve and a Tone Reproduction Curve to be applied to the proof.

To modify the Lotem Spectrum parameters on the fly:

1. From within the **Job Ticket Editor**, double-click 

(the **Lotem Spectrum** icon).

   The **Lotem Spectrum** window appears.



The **Lotem Spectrum** window is composed of five (6) tabs (namely, **Media**, **Layout**, **Slug/marks**, **Screening**, **ICC Profiles** and **Separations**).

2. If you want to set parameters for the **entire** Job, proceed to step #3.

   Otherwise, use the **Job Inventory** to customize the proofing parameters for one of the following:

   - A selected **Page** in a Job document (for example, when exposing a multi-page Job in which one or several Pages requires a different parameter).
   - A selected **Layout** in an Imposition Job (for example, when exposing a Job with several Layouts and one these requires a different parameter).

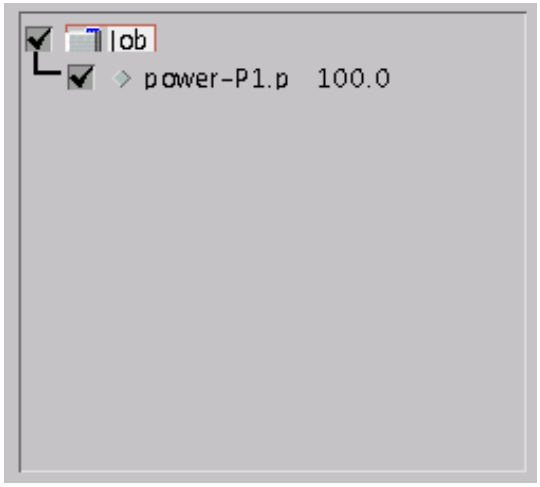


Note: Once you select the page/layout level, only the **Screening** tab is available.

   - Click  to access the **Job Inventory** window.

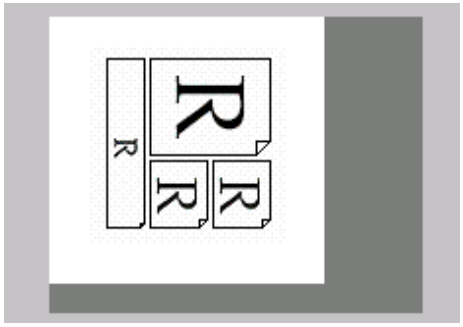


For further details, see the *Brisque 4.0 User Guide*.



3. To preview the effect of the parameters on the Layout, click .

   The Preview section opens in the lower left part of the **Lotem Spectrum** window.



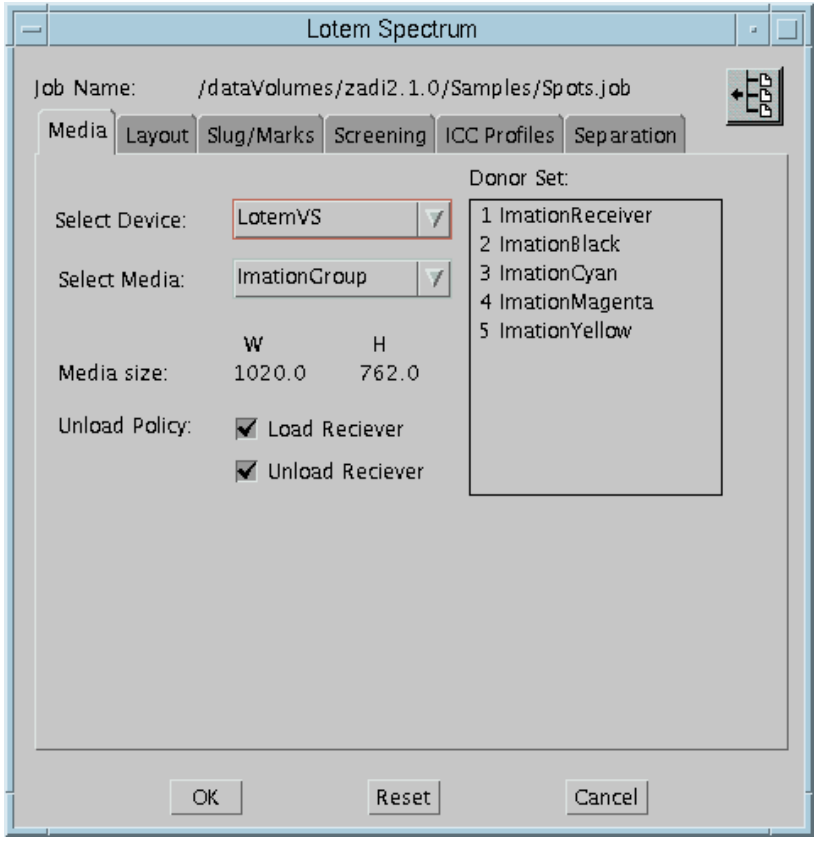
The **Preview** box shows the character R as it appears on the resulting proof.

Note: Only the following parameters are represented in the **Preview** box: Layout Mode, Exposure, Reading, and Orientation.

4. When you have defined all the required parameters on the relevant tabs, click **OK** to return to the **Job Ticket Editor.**

Media Tab

Use the **Media** tab to select the Lotem Spectrum device and the used proofing media.



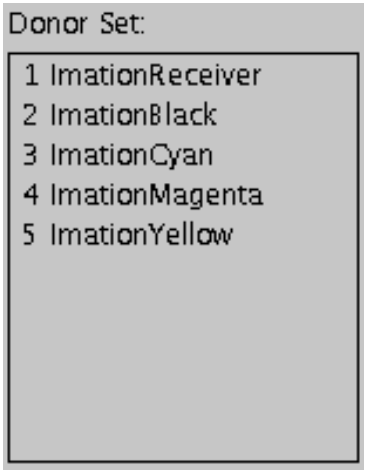
1. In **Select Device**, select your Lotem Spectrum from the drop-down list.



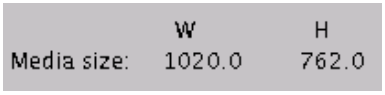
2. In **Select Media**, select the media group you want to expose from the drop-down list.



3. The components of the currently selected Donor Set are listed under **Donor Set.**



The dimensions of the receiver of the currently selected Donor Set are listed in **Media Size.**

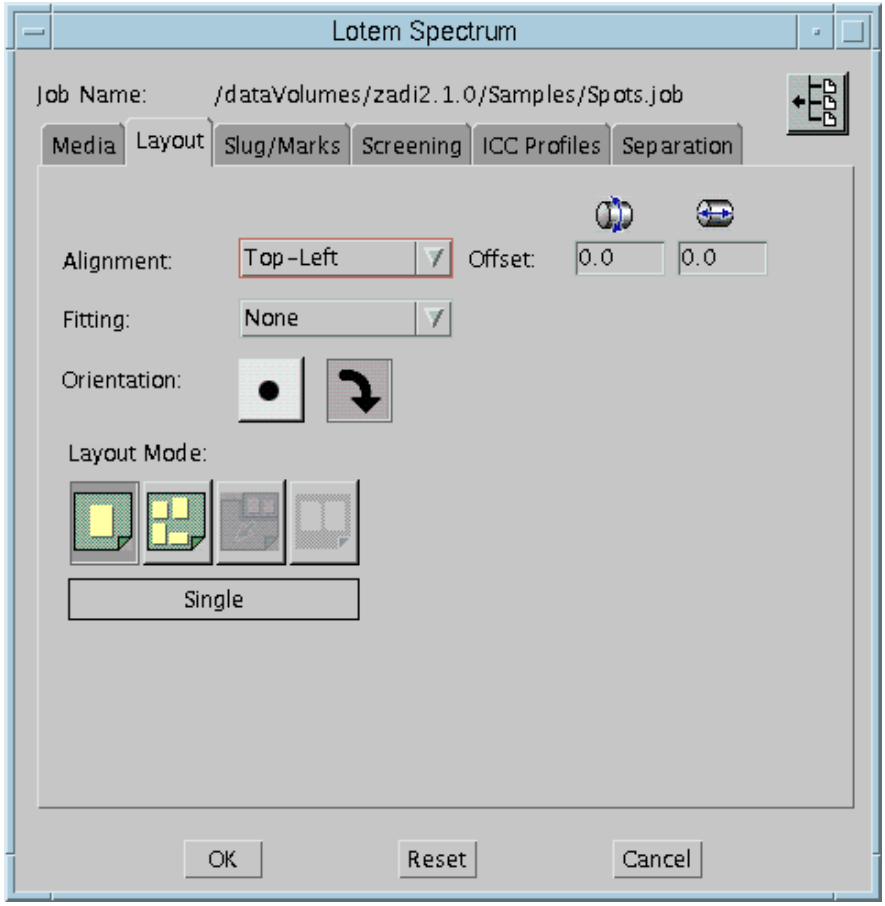


In **Select Media**, select the Donor Set with which you want to proof.

The **Donor Set and Media Size** parameters update accordingly.

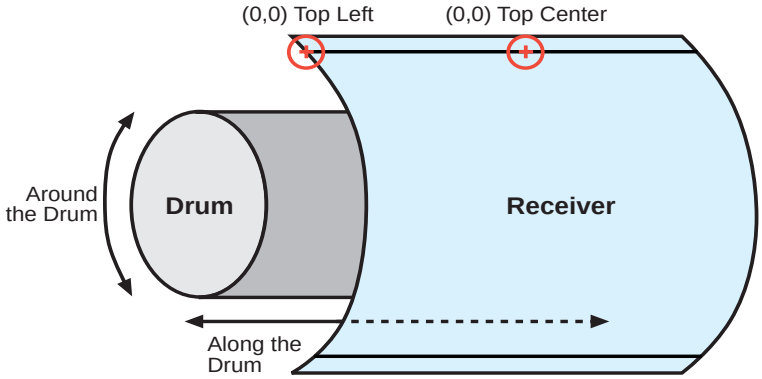
Layout Tab

Use the **Layout** tab to set the proofing mode, and the alignment, offset, scale, and orientation of the proofed Job.



1. In **Alignment**, select **Top-Left** or **Top-Center** to specify the starting point of exposure (see the *illustration* later).





Note: The selected value is used as the [0,0] reference offset points on the receiver relative to drum.

2. In **Offset**, enter the value(s) by which to shift the Layout on the proofing media from the reference point (that is, **Top-Left** or **Top-Center** as defined in **Alignment**). Exposure will start at this point.



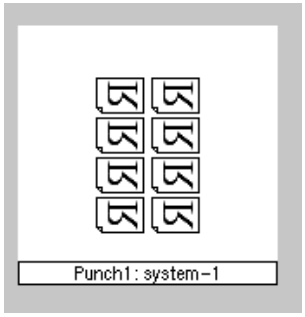
3. In **Fitting,** select the relevant mode from the drop-down list.
   - Use **Tiling** for a Job that is larger than the receiver so the proof is tiled over several receivers (in such a way that, in the final proof, they can be re-attached).
   - Use **Clipping** for a Job that is larger than the receiver so the proof is cropped to fit the receiver (in this mode, a part of the page is not exposed).
4. In **Orientation**, select the rotation angle of the exposed image on the proofing media.



   - Click  for an Imposition Job or for a Job in **landscape** orientation.

- Click  for a Job in portrait orientation.

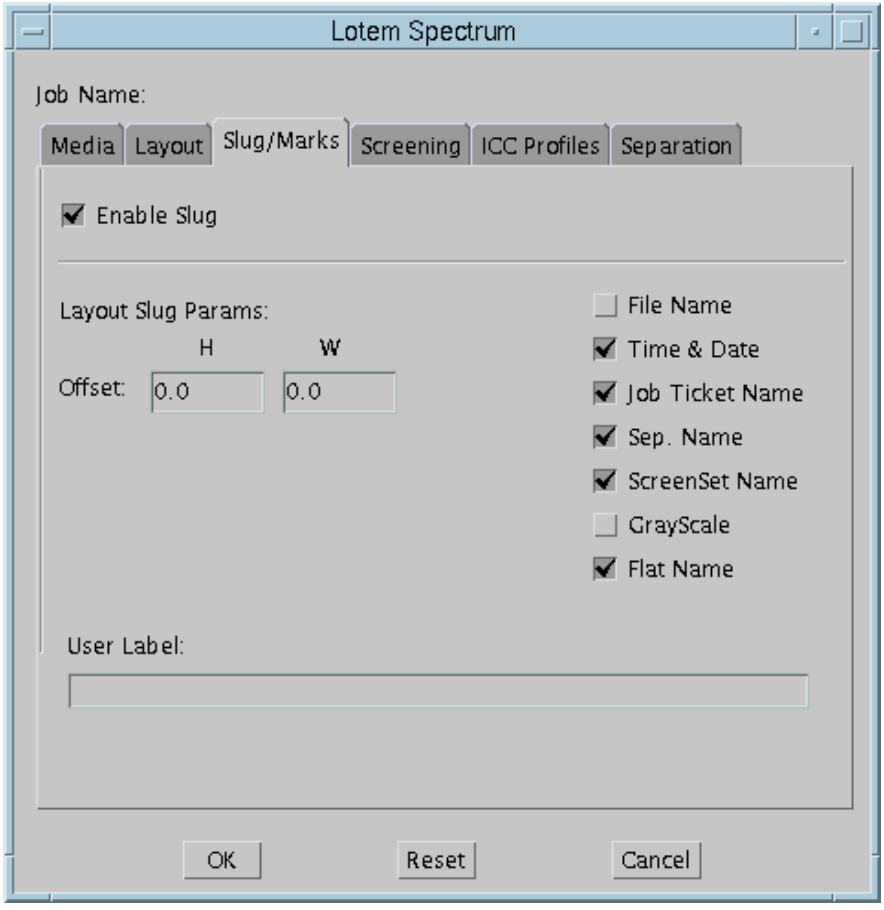
The **Preview** box shows the current orientation (for example, **90**).



5. In **Layout Mode**, select from the buttons mode that is suitable to your Job.
   - Select **Auto** if your Job includes several pages or if you wish to expose several Jobs on the same template (and proof media). This mode is called **Auto Arrange**.
   - Select **Single** if your Job includes one page only (for example, a **poster**) and you want no other jobs to appear on the same proof.
   - Select **External** for Imposition Jobs.

Slug/Marks Tab

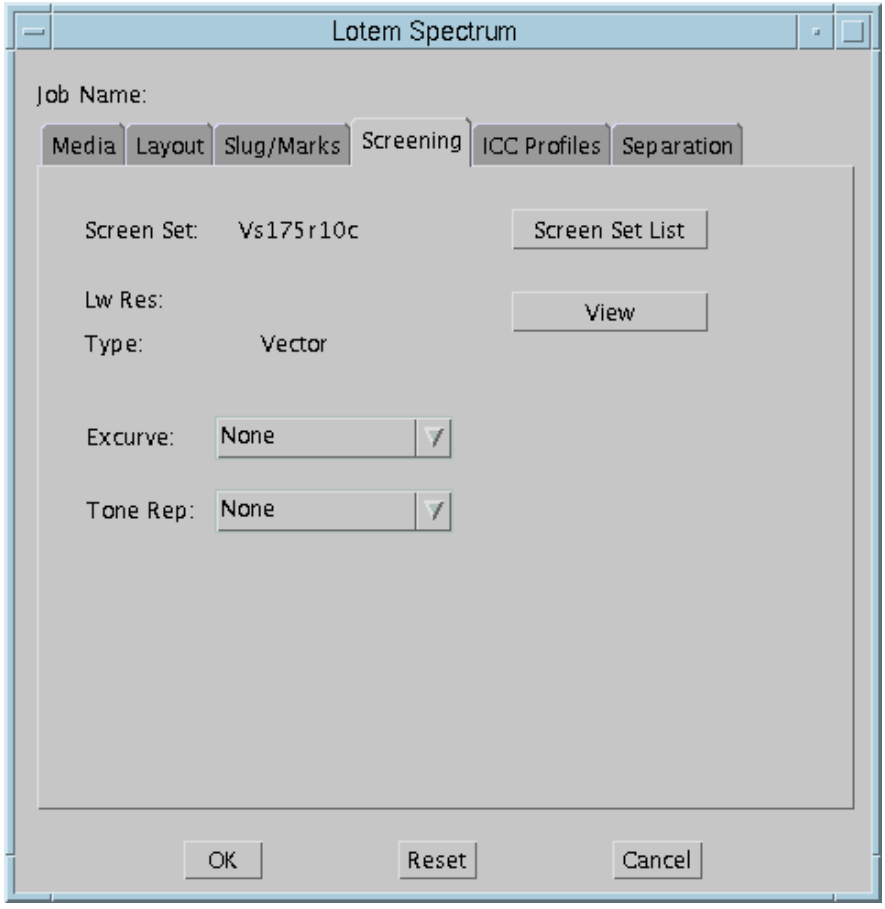
Use the **Slug/Marks** tab to select the parameters for your proof.



Note: When choosing Single or Auto arrange, then you must add Page Marks from the **Page Marks Set** drop-down list.

Screening Tab

Use the **Screening** tab to select the Screen Set, Excurve, and Tone Reproduction curve.



1. In **Screen Set,** click **Screen Set List**, select the suitable Screen Set, and click **Select.**

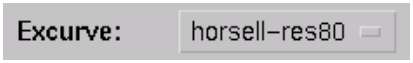
   If desired, click **View** to view the parameters of the currently selected Screen Set.



For a detailed description of Brisque Screen Sets, see the *Screen Sets* chapter in the *Brisque 4.0 User Guide*.

   The **Type** and **LW Res.** boxes update to indicate the values defined by the currently selected Screen Set.

2. In **Excurve**, select one of the following from the drop-down list:
   - To correct for density and dot percentage variations, select an Excurve **calibration** file.



   - To automatically use the first file in the **Excurve** list, select **AutoSelect**.
   - In order not to use an Excurve, select **None.**



For further information, see *Excurve Calibration* in the *Platesetter Calibration from the Brisque* chapter in the *Brisque 4.0 User Guide*.

3. In **Tone Rep.**, select a **Tone Reproduction calibration** curve from the drop-down.





For further information, see *Tone Reproduction* in the *Platesetter Calibration from the Brisque* chapter in the *Brisque 4.0 User Guide*.

ICC Profiles Tab

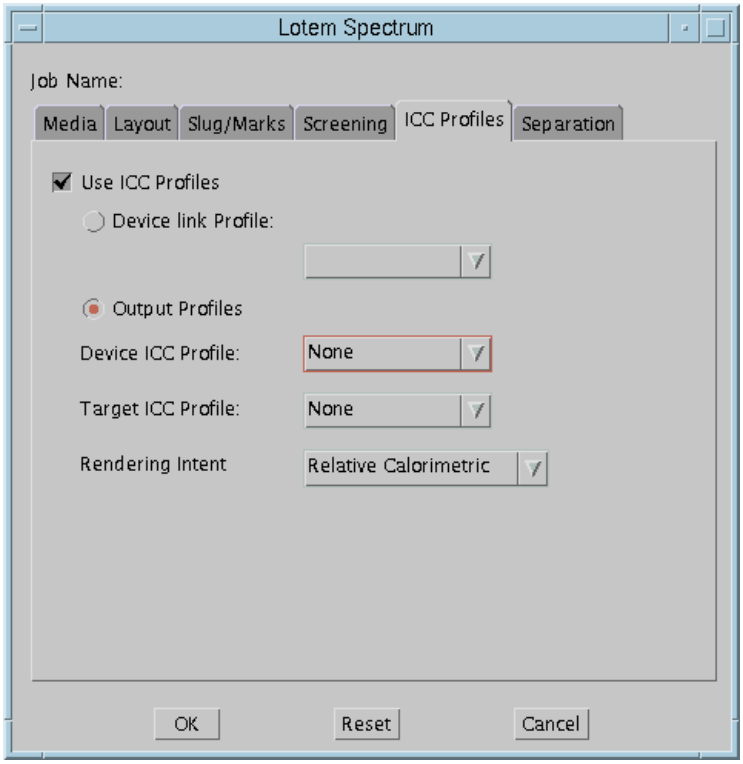
Brisque applications incorporate Creo color technologies to provide control over print and color quality for a wide range of output devices.

This technology enables flexibility to achieve a color match to a variety of output standards, to meet the wide spectrum of color spaces, typical of the graphic arts market requirements.

Brisque proofing technology makes use of ICC device and DeviceLink profiles to output the Brisque job in a desired color space, and to simulate the final target. A flexible 'on the fly' conversion occurs during the proof, saving the original job in a fixed color space.

To use ICC profiles:

1. From the Lotem Spectrum dialog box, select the **ICC Profile** tag.

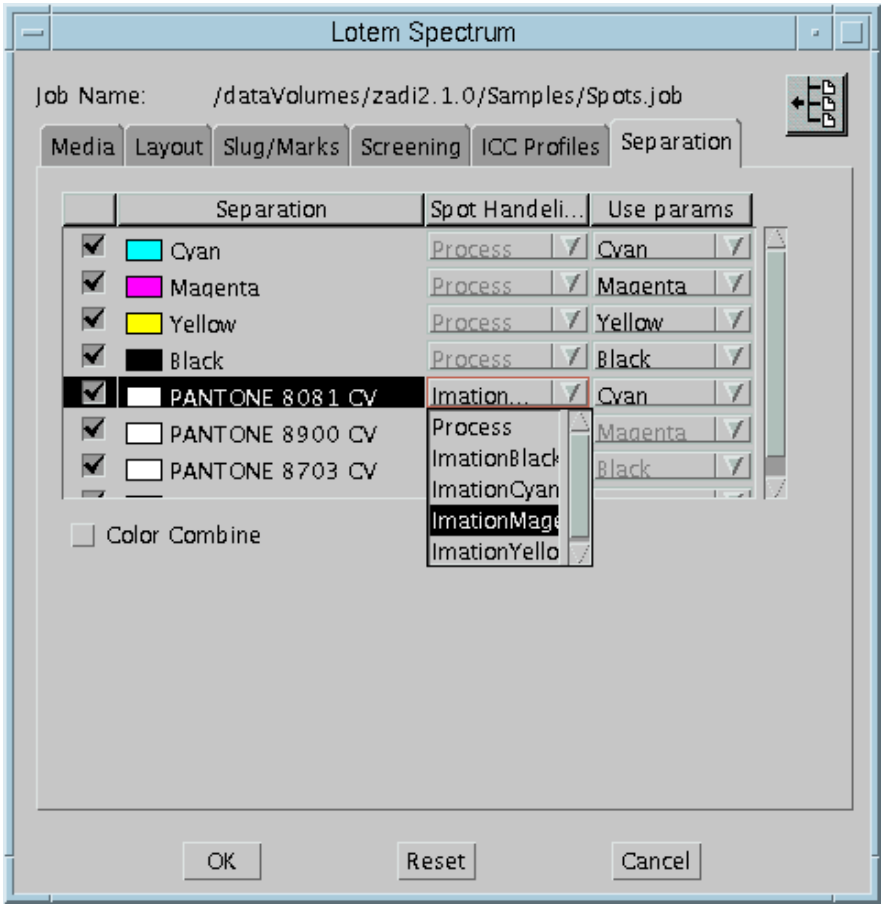


2. Select the **ICC Profiles** check box.
3. Select either the **Device Link Profile** option button or the **Output Profiles** option button.

   If you select the **Device Link Profile** option button, select a Device Link Profile from the list and click **OK**. If you select the **Output Profiles** option button, go on to the next step.
4. In the **Device ICC Profile** box, select the ICC profile for your proofing device from the list.

Separations Tab

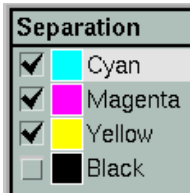
Use the **Separations** tab to select/deselect separations to be exposed, define spot color handling and screen angle screening parameters between separations.



To deselect/select separations to be exposed:

➢ In the Separation column, do one of the following:

- Clear the box next to each separation that should not be exposed.



- Check the box next to each separation you want to be exposed.

To handle spot colors:

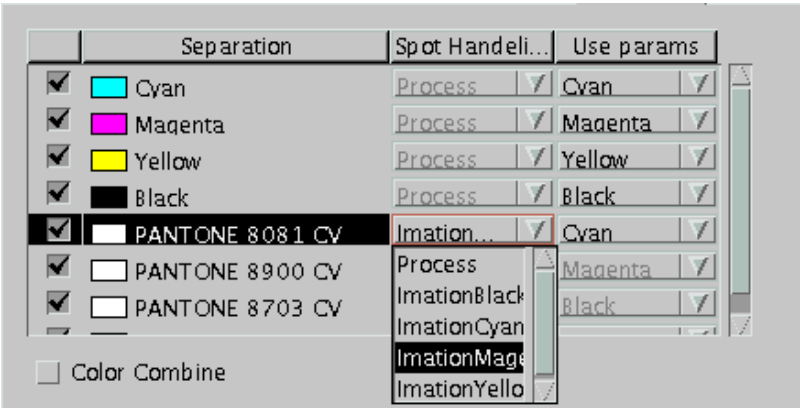
1. Select the row of the special color (for example, **PANTONE 8081 CV**).

   The color box on the bottom left corner shows the selected color.

2. Click the button located below the **Spot Handling** column.

   Select one of the following:

   - Select **Process** to distribute the special color to its CMYK values; in this way, the relevant values will be exposed on each corresponding donor.
   - The **Spot Handling** column of the selected special color indicates Process.
   - Select the corresponding **special donor** on which you wish to expose the special color (for example, **SpotRed**).



The **Spot Handling** column of the selected special color indicates the selected special donor (in this example, **SpotRed**).

- If a special donor does not exist, select a **Cyan, Magenta, Yellow,** or **Black donor** on which you wish to expose the special color; in this way, **all** the values will be exposed the selected donor.

  The **Spot Handling** column of the selected special color indicates the selected donor.

To swap Screen Angle parameters between separations:

1. Select the row of the special color to be swapped (for example, **PANTONE 8081 CV**).

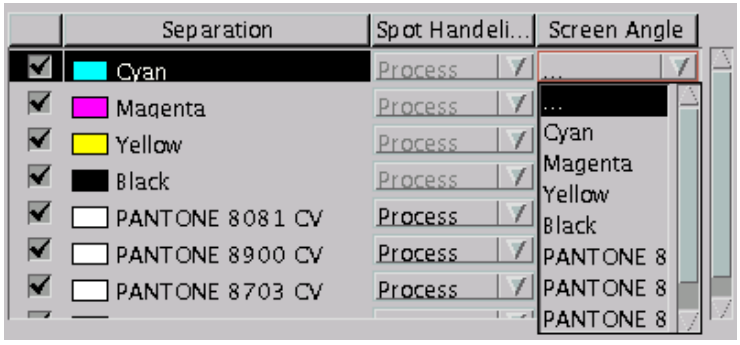
   The color box on the bottom left corner shows the selected color.

2. Click the button located below the **Screen Angle** column.

3. Select the separation with which you wish to swap the separation you selected (for example, **Magenta**).

   The selected separation (in this example, **Magenta**) is indicated in the **Screen Angle** column of the swapped separation.

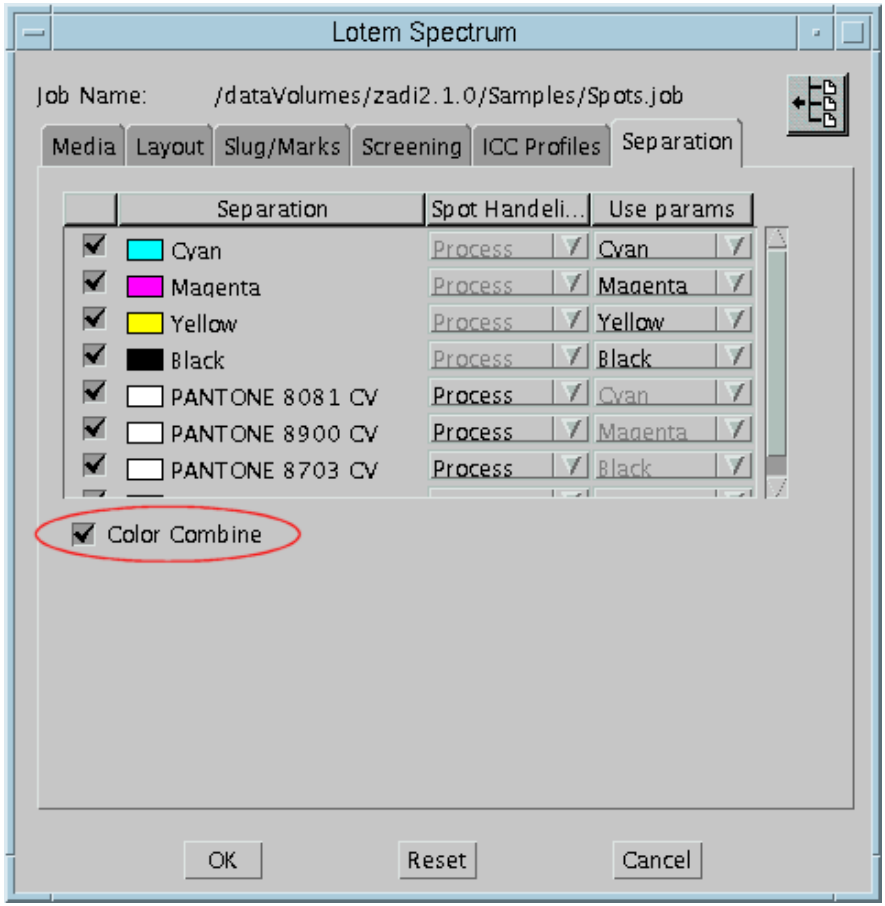
   The separation to be swapped (in this example, **PANTONE 8081 CV**) is indicated in the **Screen Angle column** of the swapping separation.



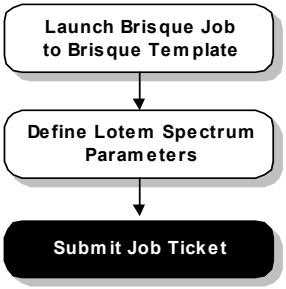
Color Combiner

The Color Combiner allows you to simulate spot colors including traps, knockouts, and overprints, in a proof using only the standard four-process colorants: cyan, magenta, yellow, and black. Color Combiner works equally well on all types of Brisque jobs including composite or separated.

The Color Combiner allows you to simulate the hue and halftone dot structure of the spot colors. This allows you to predict moiré in duotones, for example, as well as gives a truer picture of what your final printed piece will look like, without using any more donor material than for a regular four-color job. No additional steps are required in the job to use the Color Combiner, other than selecting a checkbox on the separation tab of the job ticket.



Submitting the Job Ticket for Proofing



You have completed defining the **Lotem 800 II / Lotem 800 II Quantum with Spectrum** parameters **on the fly.** In the next step you submit the Job Ticket with the modified parameters to Brisque's Queue Manager.

To submit the Job Ticket onto Brisque:

1. In the **Job Ticket Editor**, click **Submit**; the Job Ticket is sent for processing.

Note: Follow the **loading protocol** and **screen prompt** on Brisque according to your Lotem 800 II / Lotem 800 II Quantum with Spectrum model.

2. Double-click the **Queue** icon on the **Brisque Launch Pad** to launch the local Queue Manager; the **Queue Manager** window appears, allowing you to view the progress of the **Proof** operation.

Note: For detailed instructions on using the **Brisque Queue Manager**, see the *Queue Manager* chapter in the *Brisque 4.0 User Guide*.

3. The **Queue Manager** displays the Jobs **currently** being processed with the following information:

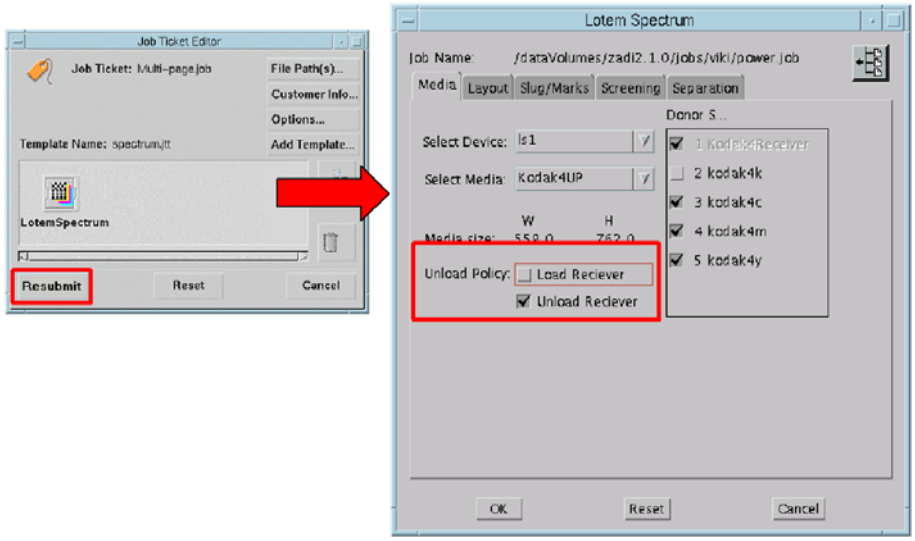
Now Running	The Jobs currently being processed.
Current	The current Brisque operation being performed on each Job.
Start Time	The start processing time and date of each Job.
Next	The next operation the Job will undergo (if there is one).

4. To expand the **Queue Manager** window, click the **Expand** icon in the upper right corner of the **Queue Manager** or press the **SPACEBAR**.

   The expanded **Queue Manager** displays the following:

   - Jobs waiting to be processed
   - Jobs placed on-hold
   - Failed Jobs
   - Completed Job

Resubmitting Jobs



The Resubmit option can be used in the following cases:

- In the middle of the job if loading of the donor failed.
- In the middle of the job if unloading of the donor failed.

The Resubmit option cannot be used in the following cases:

- If the receiver fell off the drum.
- If the expose was stopped in the middle of a separation.

To resubmit a job from Brisque:

1. **Do NOT** release the queue - release it only at the end after you have clicked the **Resubmit** button on the Job Ticket Editor. Before clicking the Resubmit button, reset the device as described in the *Lotem 800 II Family with Spectrum User Guide*, 399Z3R873. When done, continue with step 2.
2. Double-click the failed job in the Queue Manager. The Job Ticket Editor dialog box appears.
3. Double-click the **Lotem Spectrum** icon. The Lotem Spectrum window appears.
4. In the **Unload Policy** section, clear the **Load Receiver** check box.
5. Make sure the donor you want to continue expose with is selected (checked) and clear the donors that were already exposed.



Note: Do not touch or change anything in the **Separations** tab.

6. Click **OK**.
7. In the Job Ticket Editor dialog box, click **Resubmit**.
8. Release the queue.

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