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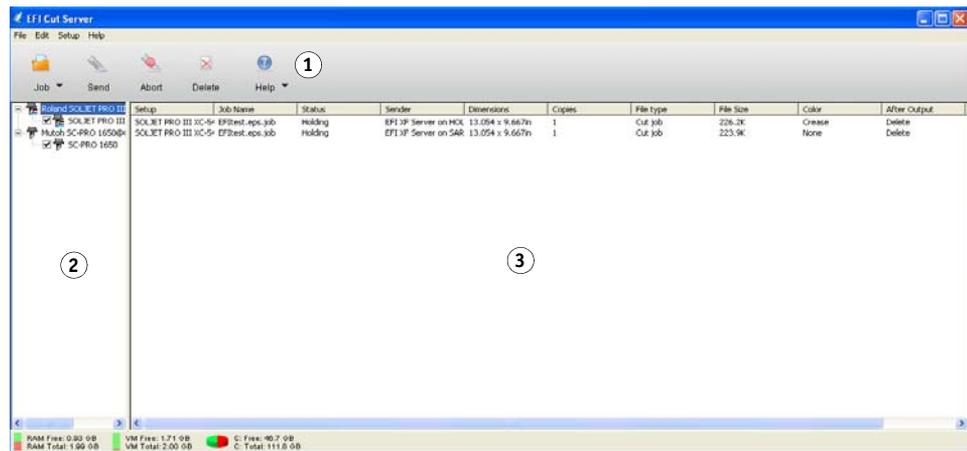
# GETTING STARTED

## Basic elements of your software

The following are some of the basic elements in your software:

### Program window

- 1 **Toolbar**
- 2 **Setup area**
- 3 **Job area**



## Toolbars

A toolbar is located at the top of the main window. It contains tools for the most commonly used functions.

The toolbar functions are:



**Job:**  
Adds a job to the selected cutting device.



**Send:**  
Sends a job to a cutting device.



**Abort:**  
Aborts sending a job to the selected cutting device



**Delete:**  
Deletes the selected job or jobs.



**Help:**  
Opens the Cut Server Help.

## Setup area

This area displays the setups (cutting devices) that are currently configured. Click the (+) or the (-) symbols to expand or collapse the list of jobs associated with the setup.

## Job area

This area displays the jobs associated with the selected setup.

The following information is listed for each job:

Setup	The name of the current setup for the listed job.
Job Name	The name of the file.
Status	The current status of the job.
Sender	The name of the computer on which the EFI XF Server is installed, the name of the EFI XF workflow, the unique job ID and the name of the EFI XF user who submitted the job.
Dimensions	The physical dimensions of the job.
Copies	The number of copies to be printed.
File type	The format of the file.
File Size	The size of the file.
Color	The color for contour cutting used in the job.
After Output	What to do with the job after output.
Date	The date of the job.

## Entering numerical values

The software supports a number of unique features that make it easier to enter numerical values.

### Using spinner controls

Use the spinner controls to increase or decrease the value. When you click, or click and hold, the mouse on one of the arrows, the value is increased or decreased incrementally. Using the arrow keys on your computer's keyboard will have the same effect.

#### Using spinner controls

##### 1 Spinner control



### Using built-in mathematical operations

The software is able to perform a number of calculations whenever a numerical value is being entered.

### Automatic unit conversion

If you enter a value using a different unit of measurement from the default unit, the software will automatically convert the value to the default unit.

For instance, if your default unit is inches, you can enter a value of 1 ft, and the software will convert the measurement to 12 in.

Supported units are:

in, "	inch
ft, '	foot
mm	millimeter
cm	centimeter
m	meter
pt	point

### Calculation of ratios

If you enter a ratio in the format A:B, the software will scale the previous value in the field by the ratio entered.

For instance, if a value is set to 12, and you enter 2:3, the new value will be 8.

### Calculation of percentages

If you enter a percentage in the format X%, the software will scale the previous value in the field by the percentage entered.

For instance, if a value is set to 10, and you enter 90%, the new value will be 9.

### Simple mathematical operators

If you enter a simple mathematical expression, the software will calculate the result of the expression and enter that value in the field.

The available mathematical operators, in order of precedence, are:

/	Division
*	Multiplication
+	Addition
-	Subtraction

For example, if you enter 1/8, the value 0.125 will be calculated.

Operator precedence determines the order in which the mathematical operations will be calculated when more than one operation is specified. In the previous list, operators are listed from top to bottom in order of operator precedence. For instance, if you enter  $6/2*3$ , the software will calculate  $6/2$  first then multiply the result by 3, yielding a result of 9.

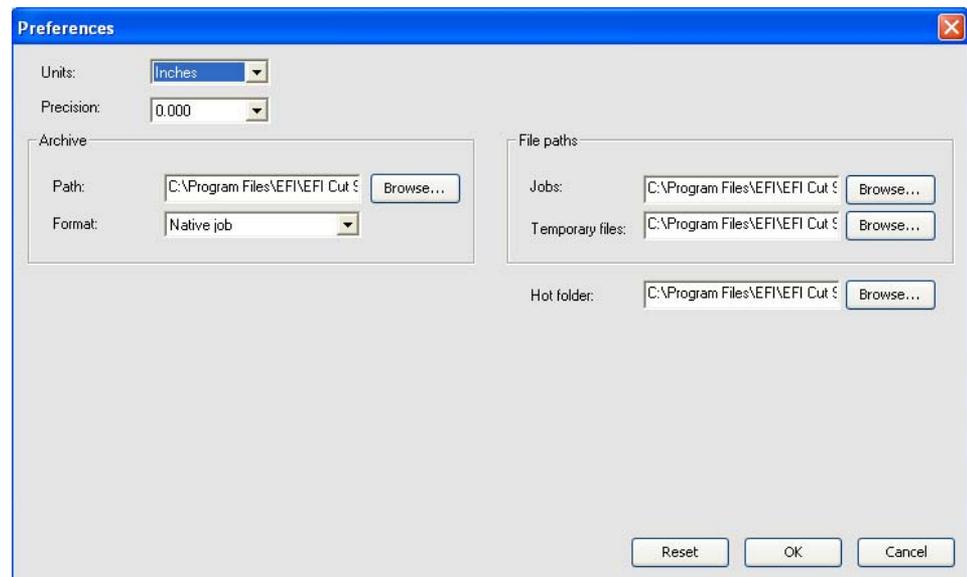
### Automatic application of entered values and expressions

Once you enter a numerical value, ratio, or mathematical expression in a numerical field, the software will automatically apply that value after a brief delay. You can also press <Tab> to apply the value immediately. Avoid pressing <Enter>, as it will trigger the OK button and close the dialog.

## Setting application preferences

To set application preferences, from the Edit menu choose Preferences.

Preferences dialog



Adjust the following parameters:

Units	The units of measurement displayed.
Precision	The degree of precision to use with cutting.
Archive Path	The folder where archived jobs are saved.

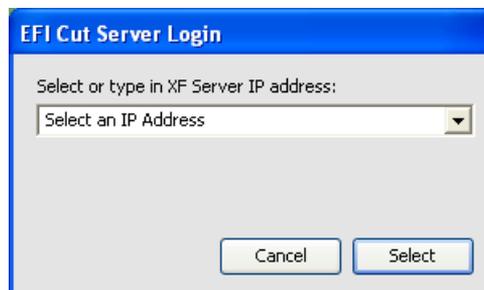
Archive Format	The format that archived jobs will be stored in.	
	Original job	Archives the job in its original file format (i.e. *.job file format).
	Native job	Archives the print data in the cutting device's native language (i.e. *.plt file format). No preview information will be available.
File paths	Sets the folders for jobs and temporary files.	
	Jobs	The folder that job files are stored in.
	Temporary files	The folder for temporary files that are created during the processing of jobs.
Hot folder	Defines a folder for receiving cut data from the EFI XF Server.	

## Starting Cut Server

Start Cut Server via Program Group or by double-clicking the Cut Server icon on the desktop.

The following dialog appears the first time you start the software or if the EFI XF license server cannot detect the Cut Server option:

### Logging on to an EFI XF Server



To log on to a specific EFI XF license server, choose an IP address from the drop-down list box, enter an IP address manually or type “localhost” if the EFI XF Server and Cut Server are on the same computer.

## Exiting Cut Server

Do one of the following:

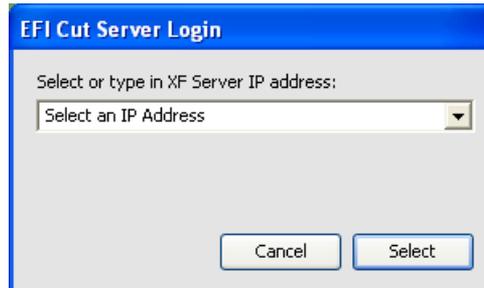
- From the File menu, choose Exit.
- Click the Close button in the top right corner of the title bar.
- Right-click on the software icon in the system tray and choose Close from the context menu.

## Logging on to a different EFI XF license server

- 1 From the File menu, choose Re-Login.

The EFI Cut Server Login dialog appears.

Logging on to an EFI XF Server



- 2 Choose an IP address from the drop-down list box and click Select.

## WORKING WITH CUTTING DEVICE SETUPS

Setups provide the link between the software and your cutting devices. Each setup contains the following information:

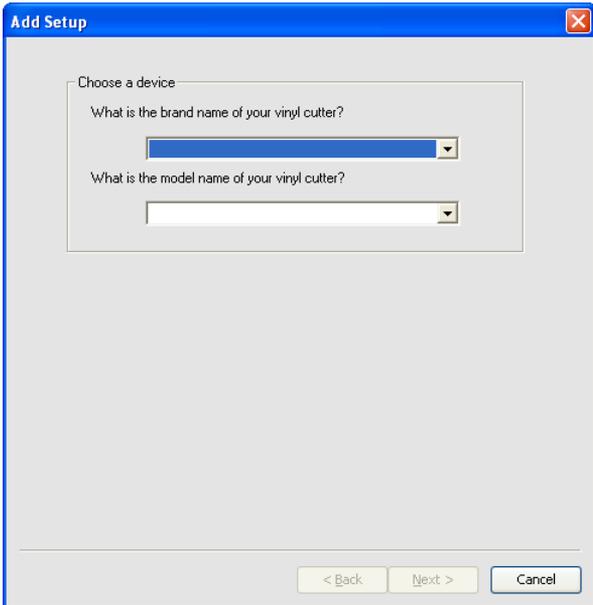
- The type of cutting device being used
- The method used to communicate with the device

Cut Server allows two different setups to be in use at the same time. It is possible to have more than one setup for each output device. This is useful because it allows you to configure each setup for a different purpose.

### Adding new setups

- 1 From the Setup menu, choose Add Setup.

Selecting a device



- 2 Select the type of device being set up.
- 3 Select the manufacturer and model name of the cutting device from the drop-down list box.

#### 4 Click Next.

### Setting up a connection

What do you want to call your new setup?

SC-PRO 1650

How is your SC-PRO 1650 connected to your computer?

COM1: Browse...

Bits per second: 9600

Data bits: 8

Parity: None

Stop bits: 1

Flow control: XOn/XOff

Hardwires  DTR  RTS  DCD  
 DSR  CTS

< Back Finish Cancel

5 Edit the setup name of the cutting device and set up the connection the cutting device uses for communication. If necessary, edit the settings for the chosen connection. See [“Changing the device port”](#) on page 15 for more information.

6 Click Finish.

## Selecting a setup

To select a setup, highlight its icon in the setup area. Only one device can be selected at any time.

## Activating setups

An active setup is a setup that is ready to cut jobs.

Do one of the following:

- Check the box next to its icon in the setup area.
- Select the setup icon and, from the Setup menu, choose Make Active.
- Right-click on the setup icon and choose Make Active from the context menu.

## Deleting setups

Do one of the following:

- Select the setup icon in the setup area and click on the Delete button in the toolbar.
- Select the setup icon in the setup area and, from the Edit menu, choose Delete.
- Select the setup icon in the setup area and press the <Delete> key.
- Right-click on the setup icon in the setup area and choose Delete from the context menu.



Deleting a setup will also delete all jobs associated with the setup.

## Editing setup properties

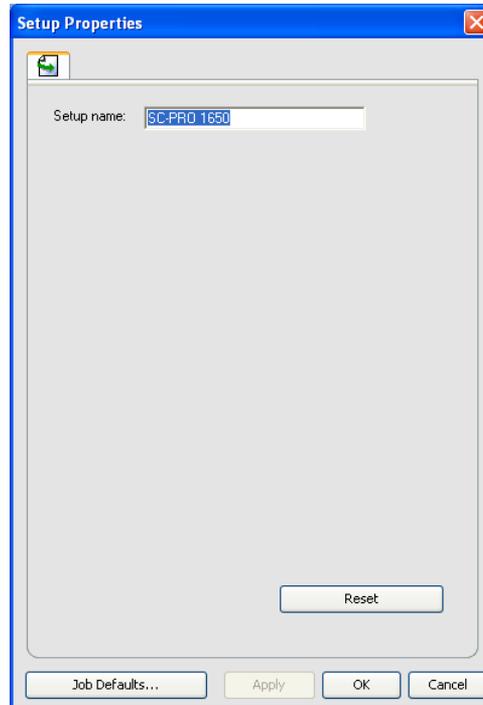
Do one of the following:

- Select the setup icon in the setup area and, from the Setup menu, choose Setup Properties.
- Right-click the setup icon in the setup area and choose Setup Properties.

## Job Workflow tab

The Job Workflow tab displays information about the cutting device.

### Job Workflow tab



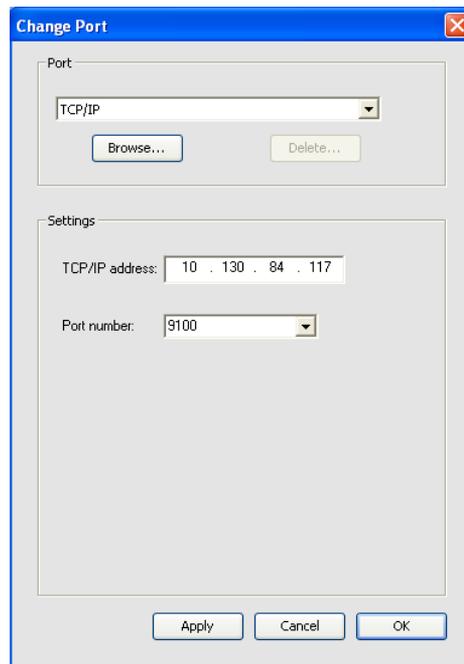
Setup name	Name of the setup.
------------	--------------------

## Changing the device port

Do one of the following:

- Select the cutting device in the setup area and, from the Setup menu, choose Change Device Port.
- Right-click the cutting device in the setup area and choose Change port from the context menu.

### Change Port tab



The settings on this tab change the port used to connect to the cutting device.

Ports are listed in order of popularity for each device. Only the ports that are usable by the output device are listed.

The standard port for the device is selected by default. Some of the port settings may still need to be entered or edited, however.

Select the port that the cutting device is connected to. The port list is limited to the ports that are actually present on your computer and usable with your cutting device.

LPT	Parallel port is the most common method to connect cutters to the computer. Adjust the following parameters:		
	Transmission buffer	The size of the transmission buffer in bytes	
	Check port state before sending	If checked, the software will send a data packet to the cutter to test if the cutter is connected before beginning to cut the job.	
	Use standard LPT driver	Whenever possible, the software uses a custom LPT driver to increase the performance of the LPT port.  If checked, the software will use the standard Windows LPT driver instead. Performance will be diminished, but reliability may be enhanced.  The following settings are enabled when the custom driver is in use:	
		Mode	Use ECP (Enhanced Capabilities Mode) for the fastest possible transmission speed. EPP (Enhanced Parallel Port) is not as fast, but may be more compatible.
		DMA	Using DMA with ECP can increase the maximum bit rate from 2 mbps to 4 mbps.
Yield if device is busy		If checked, the software will release the extra system resources used by the custom driver while the cutter is busy. This may aid overall performance.	
TCP/IP	Use this port if your cutting device supports a network connection.		
	TCP/IP address	The TCP/IP address of the cutting device (required).	
	Port number	The port number used for cutting to the cutting device. Select from the list or enter a custom number.	
USB	USB drivers are provided with cutting devices that support them. Make sure the proper drivers are installed when using these ports.		
USBPIA	Use this port if you are connecting to the parallel port of a device using a USB to parallel adapter.		
USBSerial	Use this port if you are connecting to the parallel port of a device using a USB to serial adapter. Make sure the proper drivers are installed when using this port.		

FireWire	FireWire drivers are provided with cutting devices that support them. Make sure the proper drivers are installed when using these ports.		
LPR	Some network devices do not work with TCP/IP and only with LPR protocol.		
	Host name or IP address	The host name or IP address assigned to the cutting device (required).	
	Cutter/Queue name	Depending on the cutting device, this can either be the cutter name, such as PR1, or it can be the path to a UNIX print queue. See FTP listing for common printer names.	
FTP	Cutting devices that connect directly to a network may support FTP protocol. This allows sending the cutting data to the cutting device via FTP.		
	Host name or IP address	The host name or IP address assigned to the cutting device.	
	Printer/Queue name	Depending on the cutting device, this can either be the cutter name, such as pr1, or it can be the path to a UNIX print queue. Common printer names include:	
		Axis	pr1, pr2, pr3
		Canon 6200 and 7200	Z
		Canon 8200	LP
		Hawking	lp1, lp2, lp3
		HP JetDirect EX	raw
		HP JetDirect EX Plus 3	raw1, raw2, raw3
		HP JetDirect 600N	Port1
		Intel Netport Express 10/100	LPT1_PASSTHRU
		Intel Netport Express Pro	LPT1_PASSTHRU, LPT2_PASSTHRU, COM1_PASSTHRU
		Linksys	P1, P2, P3

FILE	The FILE port allows you to save the cutting data as a file. The following settings are available:	
	Prompt for file path for each file	If checked, you will be prompted to provide a file name for the output file when each job is saved to file.
	Use custom extension	If checked, enter the file extension you want to use for the output file in the space provided.
	Default location	The default folder in which output files will be placed. Click Browse to select a folder.
SCSI	Use this port if your cutting device supports SCSI connection. See <a href="#">“Configuring SCSI setups”</a> on page 18 for more information.	
Folder	Outputs to file in the specified folder using a naming convention specific to the cutting device.	
COM	Serial communications port.  In addition to the standard serial port controls for bits per second, data bits, parity, stop bits and hardware/software flow control, there are check boxes which enable/disable the following wires:	
	DTR	Data Terminal Ready.
	DSR	Data Set Ready.
	RTS	Request To Send.
	CTS	Clear To Send.
	DCD	Data Carrier Detect

## Configuring SCSI setups

### 1 Set “Port” to your SCSI device.

If your SCSI device is not listed:

- Click Add to specify a custom SCSI device:
- Enter the name of your SCSI device in the “Custom Device Name” field.
- Enter the Bus ID of your SCSI adapter in the “SCSI Bus ID” field.
- Enter the SCSI ID number of your SCSI adapter in the “SCSI Adapter ID” field.
- Enter the SCSI ID number of your output device in the “SCSI Target ID” field.
- Click OK.

### 2 Click OK.

## Output size compensation

Output size compensation allows you to measure slight variations in output size and compensate for them.

You must set up output size compensation separately for each cutting device setup. Output size compensation does not affect the size of the job as it appears in the Job Properties dialog.

### 1 Do one of the following:

- Select the setup icon in the setup area and, from the Setup menu, choose Output Size Compensation.
- Right-click on the setup icon in the setup area and select Output Size Compensation from the context menu.

Output Size Compensation dialog

	Test size	Measured size	Compensation factor
Width:	12.000000in	12.000000in	1.000000
Length:	12.000000in	12.000000in	1.000000

2 In "Test size", enter the width and length your printed job should have.

3 Measure the printed size of the job and enter the width and length in the "Measured size" field.

4 Check "Enable output size compensation" to automatically scale all future cuts from this setup using the compensation factors derived from your measurements.

The software automatically calculates the compensation factors that will scale the output size to compensate for the difference between the test size and the measured size.

5 Click OK.

## WORKING WITH CUTTING JOBS

Jobs can be added, deleted or have their properties changed while they are in the Cut Server queue.

### Adding new jobs

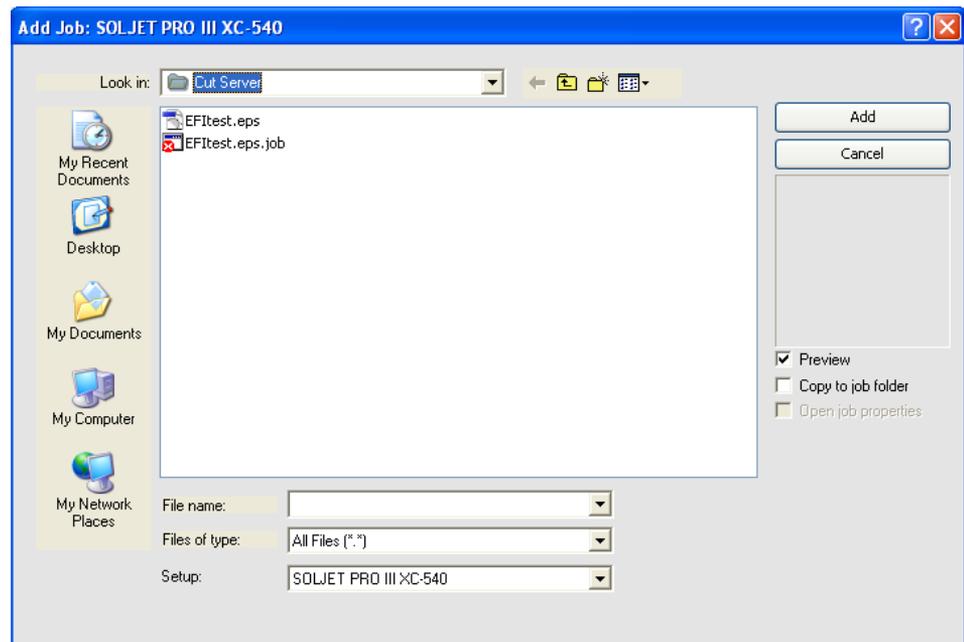
Jobs can be sent to the software in a number of different ways.

#### Adding via the File menu and Job button

**1 Do one of the following:**

- From the File menu, choose Add Job.
- In the toolbar, click the Job button.

Add Job dialog



**2 Select the file to be added.**

**3 If you want to copy the file to the local job folder, check "Copy to job folder".**



If the job is on removable media or a network drive, copying it to a local folder will allow you to process the job after removing the media or disconnecting from the network.

#### 4 Click Add.

See [“Appendix”](#) on page 33 for a list of supported file types.

### Adding via drag & drop

Dragging a file into the software will automatically add it as a cut job. The file must be of a supported file type. See [“Appendix”](#) on page 33 for a list of supported file types.

To specify the setup to be used, drag the file onto the appropriate setup icon in the setup area. The job will be assigned a status of “Holding”.

### Adding via a hot folder

Jobs can be added if they are copied into a specific hot folder surveyed by the Cut Server. To specify the location of the Hotfolder use Edit menu and choose Preferences (see also [“Setting application preferences”](#) on page 8).

## Selecting jobs

Do one of the following:

- Hold down the <Ctrl> key to select multiple individual jobs.
- Hold down the <Shift> key to select a range of jobs by clicking on the first and last jobs in the range.
- To select all the jobs, from the Edit menu choose Select All.

## Saving jobs

Jobs can be saved as a native file or in their original format.

### 1 In the job area, select the job file you want to save.

### 2 Do one of the following:

- From the File menu, choose Save As.
- In the toolbar, click the arrow under the Job button and choose Save As.

### 3 Enter the file name and select the file format (Native format or Original) and click Save.

## Deleting jobs

Do one of the following:

- Select the job and press the <Delete> or <Backspace> key.
- Select the job and, from the Edit menu, choose Delete.
- Select the job and click on the Delete button in the toolbar.
- Right-click the job and choose Delete from the context menu.

## Setting job properties

The Job Properties dialog allows you to edit a large number of settings that control how a job will be cut. See [“Setting job properties”](#) on page 24 for more information.

## Cut jobs

Once the Cut Server receives a job, it can be sent to the cutting device.

### Moving jobs to a different cutting device

Do one of the following:

- Select the job and, from the File menu, choose Move Job. Then select the new setup and click OK.
- Select the job. and, in the toolbar, click the arrow under the Job button and choose Move Job. Then select the new setup and click OK.
- Click and drag the job on to the icon for the new cutting device's setup in the setup area.

### Sending a job to a cutting device

Do one of the following:

- Select the job and, from the File menu, choose Send.
- Select the job and click on the Send button in the toolbar.
- Right-click the job and choose Send from the context menu.

### Aborting job cutting

Do one of the following:

- Select the job and, from the File menu, choose Abort.
- Select the job and click on the Abort button in the toolbar.
- Right-click the job and choose Abort from the context menu.

## Cut test jobs

The software allows you to output cut test jobs to appropriate cutting devices.

- 1 **Select the setup you want to send the test job to.**
- 2 **From the Setup menu, choose Test Cut.**

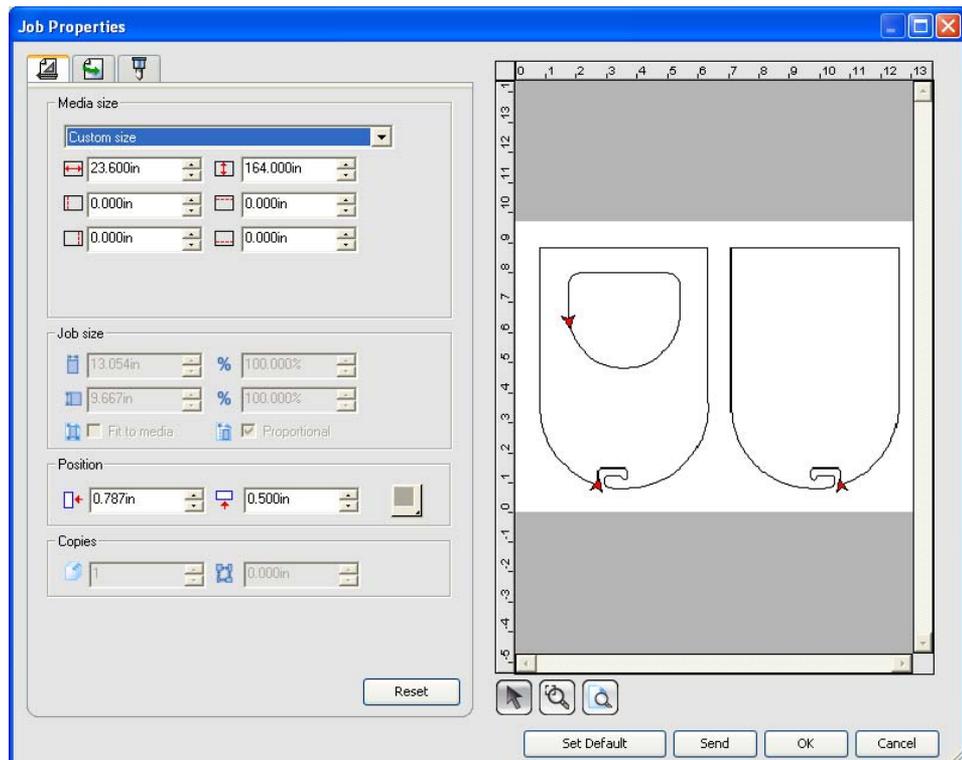
# SETTING JOB PROPERTIES

The Job Properties dialog allows you to edit a large number of settings that control how a job will be cut.

## Accessing the Job Properties dialog

- 1 Select the job.
- 2 Do one of the following:
  - From the File menu, choose Job Properties.
  - In the toolbar, click the arrow under the Job button and choose Job Properties.
  - Right-click on the job and choose Job Properties from the context menu.
  - Double-click on the job.

Job Properties dialog



The left side of the dialog contains the tabs on which the job properties can be set. The right side contains a preview pane that displays the job as it will be cut and the direction of the cut.

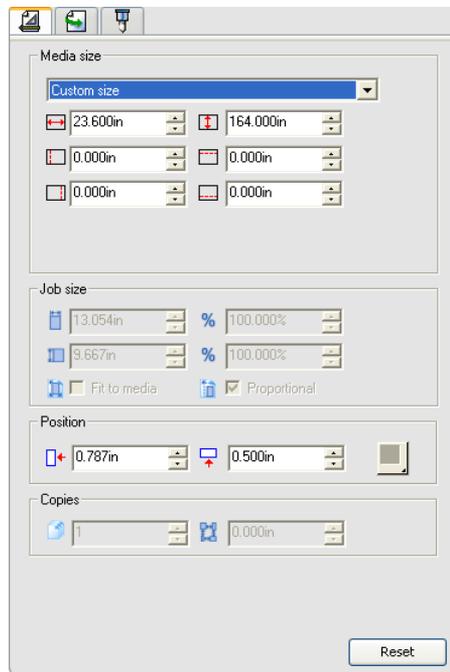
## Setting job properties

Different tabs within the Job Properties dialog let you set layout options, cutting options and workflow options.

### Layout tab

The Layout tab controls how the job will be positioned on the output media, what size it will be, and the layout of the output.

#### Layout tab



Media size	The size of the media loaded into your cutting device. Select from one of the preset sizes, or specify unique dimensions below. When a set of unique dimensions is specified, it is automatically added to the list of preset sizes.	
		The width and height of the media.
		The margins of the printable area.
Position	These settings change the position of the job on the media.	
		The distance between the job and the right and bottom margins of the printable area.

## Workflow tab

The Workflow tab displays settings related to the After Cut settings.

### Workflow tab

The screenshot shows a dialog box titled "Workflow tab". It contains the following fields and controls:

- Job name: (empty text field)
- Path: (empty text field)
- Setup: SC-PRO 1650 (text field)
- After output: Delete (dropdown menu)
- Buttons: OK, Cancel, Apply

After output	Sets what to do with the job after output.	
	Delete	Removes jobs from the queue after cut.
	Hold	Places jobs in the "Hold" queue after cut or at the bottom of the queue.

## Cut tab

The Cut tab is only visible for jobs being output on a hybrid device or cutter. It allows you to specify settings related to cutting.

### Cut tab

Resolution: 1016.000 steps/in

Passes: 1

Advance after plot

Send arc commands

Knife offset: 0.020in

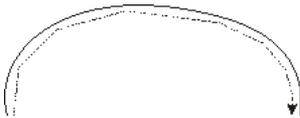
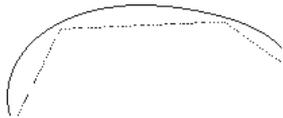
Packet size: 8 KB

Curve quality

High 0.001in

Cutter Options... Reset

Resolution	Set the resolution of your cutting device. The default value is already set for optimal results. You should not change this value unless you are experiencing problems with your cut (cut size not matching the size it was designed).
Passes	Specify how many times the blade will move over each line.
Advance after plot	Check to advance the media after output and reset the origin.
Send arc commands	Activates the device's internal curve handling.
Knife offset	Check to enter custom values for knife offset. You should only change this value if you are using a pen plotter as a cutting device.
Packet size	Check to specify the packet size sent to the device. This setting applies to a limited number of cutters and should not be changed unless your cutter requires it.

<p>Curve quality</p>	<p>Determines the precision of the curves by setting the maximum space allowed between the curve and the line. Higher quality requires more lines, resulting in increased plot file size and cutting time. The default is already set for optimal results.</p> <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <p>Higher quality</p> <p>Lower quality</p> </div>
<p>Cutter Options</p>	<p>Displays the Cutter Driver Options dialog.</p>
<p>Reset</p>	<p>Restores the default settings.</p>

### Setting cutter driver options

The Cutter Driver Options allow you to control the parameters of operation of your cut device such as cut speed, pressure and execute common tasks (roll forward, roll backward, go to origin) from your computer.

**Tabs**

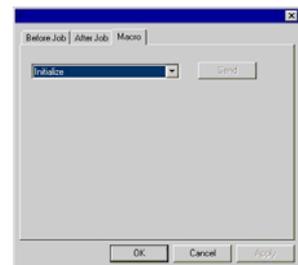
- 1 Before Job tab
- 2 After Job Tab
- 3 Macro tab



①



②



③



The settings available in the Cutter Driver Options vary according to your output device.

Each command has a check box to enable or disable it. When enabled, you can change the value, and the command will be sent to the output device overriding the settings in the output device. When the option is unchecked, the settings from the output device are used.

Delete	Deletes the selected command from the list (you can only delete commands that were added using the save command).
Save	Saves the changes you made as a new command.
Reset	Reverts all settings to its default settings (any custom commands added by the user will be deleted).

Before Job	Defines commands that will be sent before the job is processed.	
	Cut Fast / Medium / Slow / None	Defines a series of settings for fast, medium and slow cutting speeds. Select None if you want to use all settings from the output device.
	Pressure / Force	Defines the pressure of the knife.
	Speed	Defines the traveling speed of the head.
	Tool	Defines the tool when several tools are available or switch between cut and plot.
After Job	Defines commands that will be sent after the job is processed.	
	Cut Media / Auto Cut	Specify if the media will be cut after cutting or plotting.
Macro	Allows you to execute common tasks that you are usually required to do from the cutter's control panel.	
	Initialize	Initializes the output device.
	Roll Forward / Backward	Advances or rolls back the media.
	Go to origin	Moves the head to the origin.



Make sure nobody is around the output device when sending the macros, since the cutter may move and injure the operator.

# CONTOUR CUTTING AND VIRTUAL HYBRID OUTPUT

A hybrid device can print an image and cut a contour on it.

Virtual hybrid output gives you the same result by printing a job on a printer, then loading the printed output into a cutter and cutting it.

## Setting up a job for contour cutting

In order for a contour to be cut when a job is output through a hybrid device or virtual hybrid, the following must be true:

- The job must be vector-based.
- The contours to be cut must be assigned a stroke with a custom color listed in EFI XF Server.

For specific details on setting up jobs within a given application, please consult the EFI XF Help.

## Virtual hybrid output

The EFI XF software and the Cut Server together allow you to use a printer and a cutting device to produce the same results as a hybrid printer/cutter.

### Virtual hybrid output on a cutter with automatic alignment

- 1 **Set up the job for contour cutting.**
- 2 **In EFI XF, load a job in a workflow that is connected to the printer you want to use as part of the virtual hybrid.**
- 3 **RIP and print the job in EFI XF.**

Once the job has been printed, the cut portion of the job automatically appears in the “Hold” queue.
- 4 **Remove the printout from the printer and load it into the cutter.**
- 5 **Select the cut job in the “Hold” queue and click Send in the toolbar.**
- 6 **Align the cutting head over the first automatic registration mark (lower right if not marked) using the controls on the front panel of the cutter.**
- 7 **Click OK to cut the contour.**

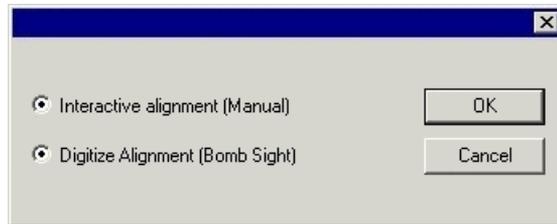
### Virtual hybrid output on a manually aligned cutter

- 1 Set up the job for contour cutting.
- 2 In EFI XF, load a job in a workflow that is connected to the printer you want to use as part of the virtual hybrid.
- 3 RIP and print the job in EFI XF.

Once the job has been printed, the cut portion of the job automatically appears in the “Hold” queue.

- 4 Remove the printout from the printer and load it into the cutter. Make sure the output media is straight, and align the registration marks with the origin for the cutter.
- 5 Select the cut job in the “Hold” queue and click Send in the toolbar.

Job in the Hold queue

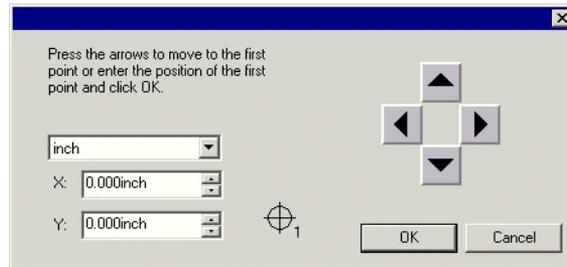


- 6 Select the method to be used to position the cut head over the registration marks and click OK.

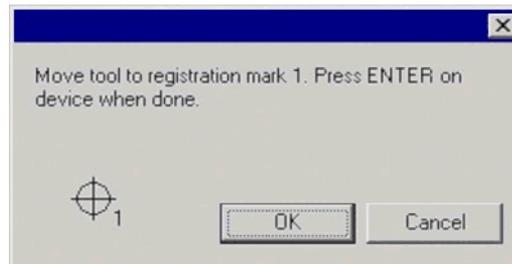
Interactive alignment	You will position the cut head over the registration marks using software controls.
Digitize alignment	You will position the cut head over the registration marks using the controls on the face of the cutter.  This option is only available when a bi-directional communications protocol such as serial or USB is used.

**7 To indicate the position of the registration marks, do as follows:**

- **Interactive alignment:**  
Use the arrow buttons to position the head of the cutting device over registration mark 1 and click OK. Repeat for all additional registration marks.

**Interactive alignment**

- **Digitize alignment:**  
Use the front panel controls on the cutter to position the head of the cutting device over registration mark 1. Press <Enter> on the cutting device and click OK. Repeat for all additional registration marks.

**Digitize alignment**

- 8 Make sure the knife is loaded into the cutter and click OK to cut the contour portion of the design.**

## APPENDIX

### Supported file formats

File Format	Extension	Import	Export
Native Files	prt, plt	(A)	(A)
Plot / Cut Job Files	job	(A)	(A)

(A): Version number does not exist or is not available.

### Keyboard shortcuts

Add Job	<Ctrl>+<O>
Move Job	<Ctrl>+<M>
Job Properties	<Ctrl>+<J>
Save Job As	<Ctrl>+<S>
Send Job	<Ctrl>+<P>
Select All Jobs in Queue	<Ctrl>+<A>
Delete	<Del>/<Bksp>
Add Setup	<Ctrl>+<N>
Setup Properties	<Ctrl>+<K>
Online Help	F1
Refresh View	F5

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