

Silhouette Software Manual
User Manual

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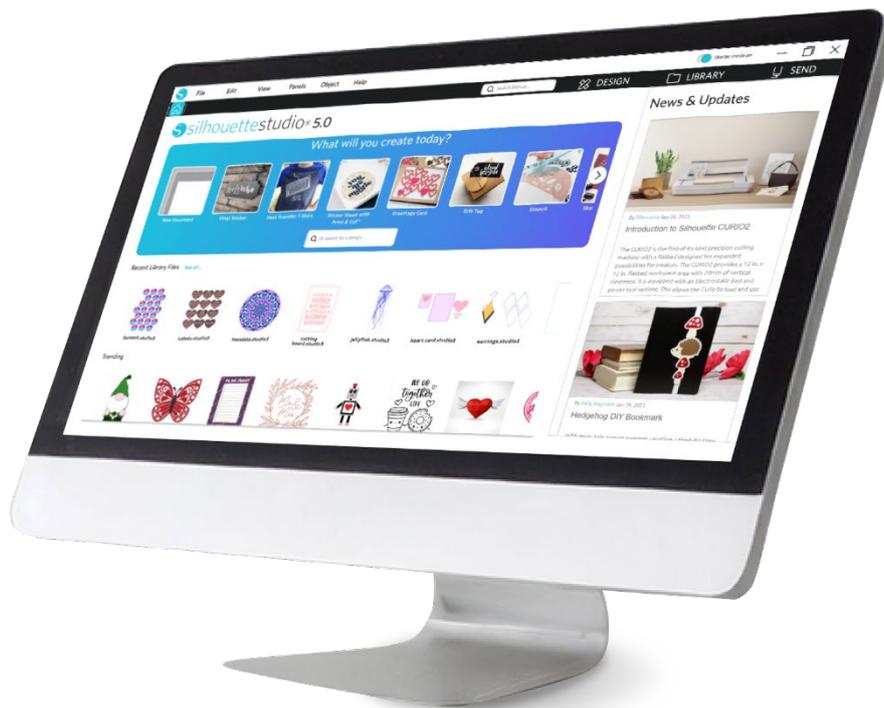


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The PixScan system has been created in conformity with U.S. Patent No. 9,396,517.

See also acknowledgements below.

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Silhouette Cloud Usage

The Silhouette Cloud library may be used to sync library files and the library folder structure between user-owned computers and/or mobile devices. The Cloud Library may not be used to store illegal content, including (but not limited to) copyrighted images not owned by the library owner, or other content including images of an illegal or inappropriate nature, as deemed by a local or federal law enforcement agency.

Silhouette Cloud Content Review

User-created files are converted to an encrypted text format when stored on Silhouette America's servers. Silhouette America does not inspect, examine, or otherwise view individual files, unless to address specific support cases in which the files are not downloading or uploading properly, or to assist in a criminal investigation. By uploading files to the Cloud library, the user agrees to the above conditions of review where applicable. Files which are located in the "Local User" section of the Library are never uploaded to Silhouette America's servers and cannot be seen or reviewed by the company.

Storage Reliability and File Backups

Silhouette America's Cloud Storage is a "synching service" rather than a "backup service". Files that are deleted locally will also be deleted on the Cloud. As such, Silhouette recommends that users save important and/or valuable files to a professional third-party backup service. Silhouette America is not responsible for "user files" which are lost due to dropped Internet connections, accidental user deletion, or other errors which cause the files to disappear.

Transmitting Library Data to the Silhouette Servers

Library data is sent to Silhouette America's servers when a signed-in Library is modified in some way, including:

- Creating, deleting, editing, or renaming Library files
- Creating, deleting, or renaming Library folders
- Moving files and folders from place to place

The software also communicates with Silhouette America's servers when libraries are created or removed.

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Precautions in this Document

This manual is intended to provide an overview on how to use the Silhouette Studio® software. This manual assumes the use of digital cutting machine of "CAMEO series, Portrait series and CURIO series." The operation instructions for the Silhouette cutting machine are provided in the subsequent manual for Silhouette hardware, which covers the instructions on settings for direct cutting from the Silhouette hardware device that uses cutting and drawing.

- (1) The contents of this manual may not be copied in part or in whole without permission.
- (2) The details and product specifications in this manual are subject to change without notice.
- (3) The greatest effort has been taken to ensure the clarity and accuracy of the information in this manual. Please contact Silhouette or your retailer with any questions you may have.
- (4) Please note that Silhouette America assumes no responsibility for any liabilities arising out of the use of this manual and product.

01 General Information

Silhouette Studio® is a software that helps you design and create outline and print data of objects and text. You can draw and edit shapes and text, then send your designs to a Silhouette cutting machine. This machine can cut or perforate materials for flat projects, make 3D models from templates, and even sketch line drawings. The software is compatible with all Silhouette devices. Features and cutting results cannot be guaranteed for compatible plotter units or electronic cutting tools not offered by Silhouette America. Some features, such as Print & Cut applications, may not be available for other compatible cutting tools not offered by Silhouette America. Silhouette Studio® also supports convenient functions that enable the capturing of image data into the software and the automatic creation of registration marks for Print & Cut applications.

System Requirements

The following system environment is required to use Silhouette Studio®.

<https://silhouetteamerica.freshdesk.com/support/solutions/articles/35000273905-software-overview>

Features Overview

The Silhouette Studio® software includes, but is not limited to, the following software features and benefits:

- Imports a variety of file formats
- Print & Cut technology (requires printer)
- Download exclusive digital content
- Organize and optimize the library collection of images
- Cut font files already installed on your computer
 - Manipulate Text with:
 - Word and letter wrapping
 - Alignment justification
 - Letter spacing control
 - Fit text to path
- Draw your own images in printing and cutting formats, including:
 - Lines
 - Circles, Squares, and Rounded Rectangles
 - Polygons & Curved lines
 - Free-hand drawing tool
- Resize images to exact specifications
- Ungroup/Group sets of lines for manipulation
- Edit and manipulate points of text and images
- Erase image parts with freehand eraser tool
- Weld images together
- Create shadowed mat effects
- Arrange images with following abilities:
 - Transform
 - Rotate
 - Align
 - Replicate
 - Modify
- Manipulate line types for differing cutting actions
- Create your own Print & Cut images by filling images with custom colors, gradients, pattern fills
- Unlimited "Undo" and "Redo" actions

Software File Formats

The Silhouette Studio® software uses a proprietary STUDIO file format, which consist of vector art for line and color/gradient fill type data intended for printing and/or cutting. The Silhouette also is able to open* the following vector file formats in a Ready to Cut format:

- DXF
- SVG (paid option)

The Silhouette Studio® software can also import some other vector and raster file formats for the purpose of being able to trace these images to create cut lines for Print & Cut images.

The following additional file types can be imported:

- JPG
- BMP
- PNG
- TIFF
- GIF
- WMF
- PDF (paid option)

In addition to files that may be opened or imported, Silhouette Studio® can also access font. Please note that Silhouette cannot guarantee the quality or success of fonts not offered by our company as not all fonts are designed with cutting or sketching in mind.

You are also able to create your own images to cut with the Silhouette software. There are simple line drawing functions built into the Silhouette software that will allow you to do so from within the Silhouette program.

*Not all features of these file types may be able to be imported into the Silhouette Studio® software

Available Digital Content

Contents are available through the Silhouette Design Store (accessed through the Silhouette Studio® software).



The store will allow you to access and purchase additional digital content for the software, available both from Silhouette artists as well as independent artists and various companies, thus ensuring a variety in look and feel of available premade content. Further information on the store and downloading content will be provided later in this manual.

02 Install the software (Silhouette Studio®)

Silhouette Studio® can be downloaded from the Silhouette America.com website.

<https://www.silhouetteamerica.com/software>

After downloading, follow the procedure below to install the software.

Important

- Before installing Silhouette Studio®, log in as a user with administrator privileges for the computer.
- Do not connect Silhouette Cutting Machine to the computer until the software installation is completed.

Supported OS

• Windows/ macOS

For details on supported OS, refer to silhouetteamerica.com web site.

<https://silhouetteamerica.freshdesk.com/support/solutions/articles/35000273905-software-overview>

For Windows

- 1 Go to <https://www.silhouetteamerica.com/software>
- 2 Select WINDOWS (64-bit) depending on the operating system used.
- 3 Downloading the installer starts.
- 4 Double-click the downloaded installer file "(downloaded file name).exe" to execute it.
- 5 Follow the instructions on the setup screen to install it.
- 6 Click "Next (N)" when prompted on the setup wizard.

For Mac

- 1 Go to <https://www.silhouetteamerica.com/software>
- 2 Click MAC.
- 3 Downloading the installer starts.
- 4 Double-click the downloaded installer file "(downloaded file name).dmg" to execute it.
- 5 Drag the Silhouette Studio® icon into the Applications folder and install it.

Caution

If you have already installed Silhouette Studio®, update it to the latest version from the following website.

<https://www.silhouetteamerica.com/software>

03 Software Overview

Opening the Software

To open the software on PC, locate the desktop icon and double-click. If a desktop icon was not created during installation, go to the Windows Start menu and select to run Silhouette Studio®.

To open the software on Mac, open the Applications folder and launch Silhouette Studio®.

The Silhouette Studio® icon will appear as follows:

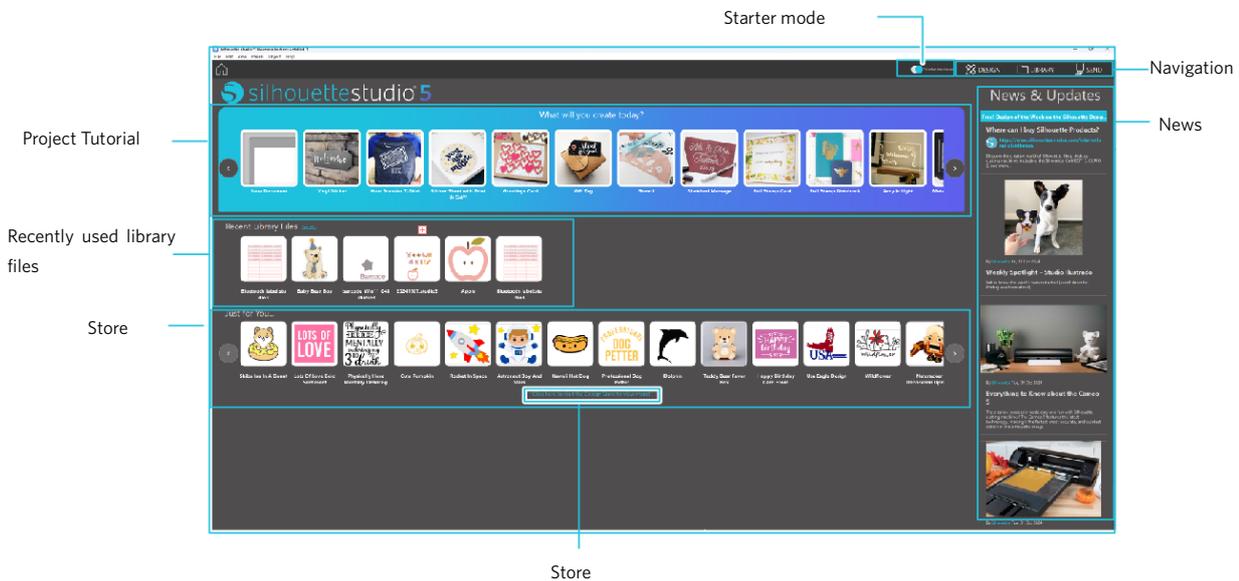


Home screen

When the software is launched, the welcome slide show is displayed at the upper part of the home screen. Selecting "Beginner" introduces the details of the [DESIGN], [LIBRARY], and [SEND] navigation tabs at the upper right as a slide show.

This screen provides a start page that is friendly and easy to use for user and introduces project templates and designs acquired from the design store.

*As screen shots used in this chapter onwards, screen shots in the dark mode  of Silhouette Studio® display color are used.



Navigation Tab

There are [DESIGN], [LIBRARY], and [SEND] navigation tabs

Project Tutorial

The Silhouette Studio® tutorial introduces the basic use of Silhouette Studio® that is required to make an artwork for the first time with the Silhouette cutting machine.

Store

When you access the Silhouette design store, you will be led to the website of the store. It is possible to browse the contents, including the design and font, and purchase them.

News

The latest updates of cutting machines and software, including information on new Silhouette products and purchase information, are displayed in this section.

Starter mode

In Starter mode, which has been newly added to Silhouette Studio®, it is possible to easily proceed with the design flow while referring to the explanations and illustrations provided on a step basis, which makes it possible for even a beginner to smoothly conduct the work with fun until the end. In addition, as the step-based guide recognizes the types of artworks that can be created by the user, it serves to guide the user to materials, tools, and machines with higher difficulties.

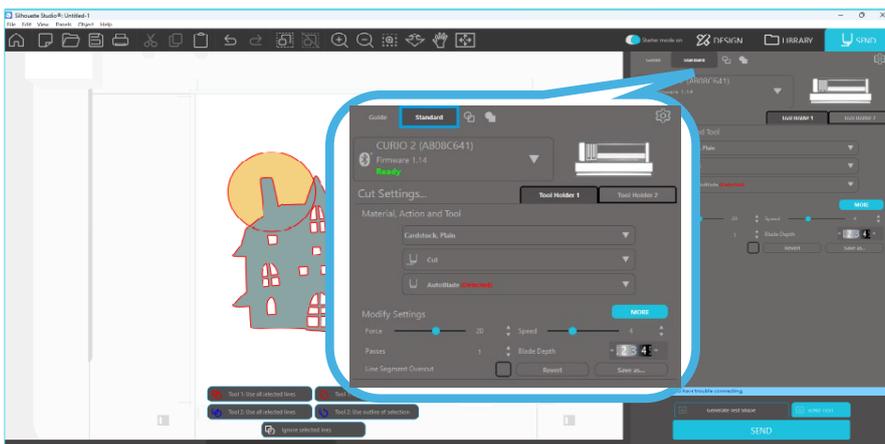
The SEND mode has Guide mode, which is easy to understand even for a beginner, and Standard mode.

Guide mode

It is possible to follow the steps from connection to cutting machine to transmission of data one by one on separate screens.

Standard mode

It is possible to follow the steps from connection to cutting machine to transmission of data on the same screen.

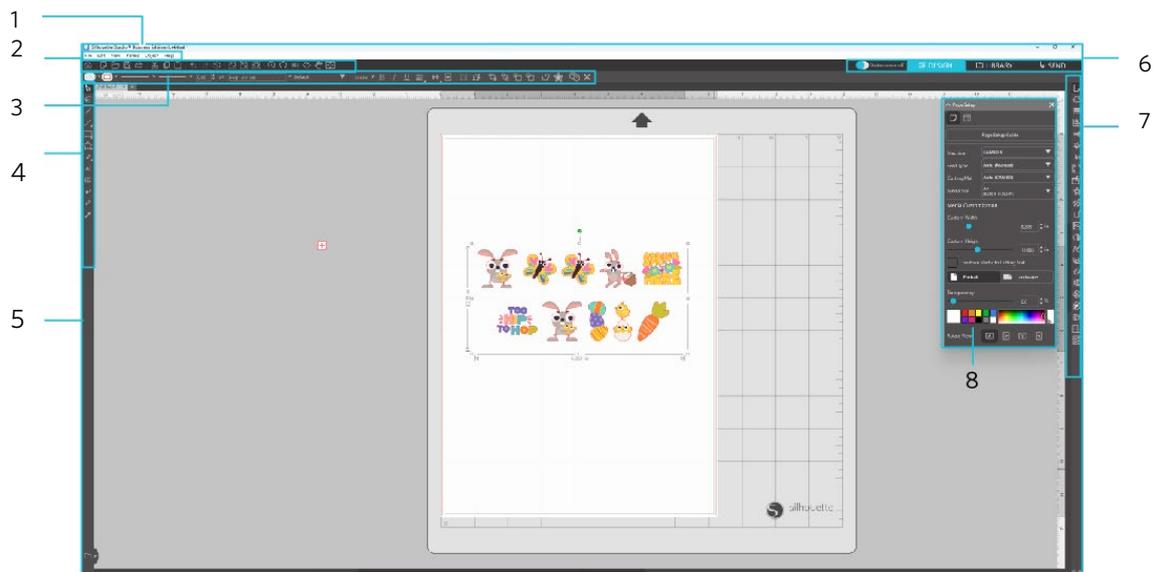


Software Sections

The software offers several sectioned areas. Details as to each button's specific function are discussed in later sections. However, so that you may be familiarized with where everything is located, a brief overview is provided for each of the sections.

Name and functions of each component

The software offers several sectioned areas. However, so that you may be familiarized with where everything is located, a brief overview is provided for each of the sections.



1 Menu bar

File : For creating new files, opening existing files, saving files, exiting Silhouette Studio®, and so on.

Edit : For cutting, copying, pasting, and Preferences. The configuration of language and unit settings, initialization of Silhouette Studio®, and other tasks can be done in Preferences.

View: For opening the grid view, setting registration marks, and so on.

Panel: For displaying each panel.

Figure: For rotating, replicating, merging, grouping, and so on.

Help: For viewing the User's Manual, version information, and so on.

2 Toolbar

Provides shortcuts for basic functions, such as New Drawing and Save.

3 Quick Access Toolbar

Provides tools such as grouping, replicating, and setting the stacking order.

4 Design Tool

Provides tools for drawing basic figures and adding texts.

5 Workspace

This is the workspace for creating designs, such as figures and texts.

6 Navigation Tab

Starter Mode: Switches between guide mode and standard mode ON or OFF.

DESIGN tab: This is the workspace for creating designs.

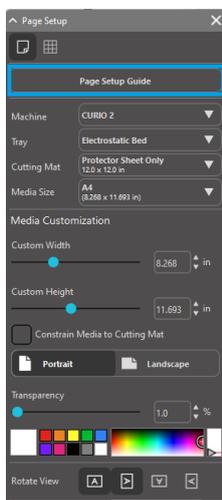
You can return to the design page by clicking the "DESIGN" tab even while viewing the "LIBRARY" tab or "SEND" tab. For details on each function of the design page, refer to "Help" and "User's Manual..." on the toolbar.

LIBRARY tab: You can access the designs saved in the library and the contents downloaded from the Silhouette Design Store from the "LIBRARY" tab. In the library, you can add folders and subfolders to sort and organize the designs.

SEND tab: In the "SEND" tab, you can set the cutting conditions for the design and send the cutting data to Silhouette Cutting Machine.

7 Panel Display: Displays each panel.

8 Panel: Provides the functions related to the opened panel.



[Page Setup Guide] is displayed in the [Page Setup] panel to allow you to configure the basic settings for cutting.

*It can also be displayed via the [Introduction] of the [Help] menu.

Cutting/Drawing Area

You will note there are two different sections in your workspace:



- White workspace
- Grey holding area

The white workspace notes the active document area. Images may be placed or drawn onto this area, or they may be placed or drawn in the grey holding area. Any images in this grey area are invisible to your cutting tool or printer. You may wish to place images off to the side to be set aside as you do not wish to include them in your job to be printed and/or cut.

You will note a red border inside this white workspace. The red line represents the active cutting area. The cutting tool will only be able to see and be able to cut what is inside this red line. All images being sent to the Silhouette to cut should be within this red line area.

Opening Documents



Though opening the software will always provide you with a new document, you may select a new workspace to start a new project at any time. To start a new document you may either use the New option from the File menu, or select the New icon.



To open existing files you may either use the Open option from the File menu, or select the Open icon.

You will then be prompted to navigate to the location where your desired file is located. Through the Open feature, the Silhouette Studio® software has the ability to open the following cutting-type files:

- STUDIO (Silhouette Studio® files)
- GSD/GST (Graphtec “ROBO Master” program files)
- DXF
- SVG (paid version)

* *Silhouette Studio® supports the following DXF features only: Arc, Circle, Ellipse, Line, DWPolyline, Spline, and Text*

The Open feature can also access simple image file types that are not in cutting format, but may be imported for printing or tracing purposes. When using a PC, you will need to select “All Files” under the type of file as you seek to open another type of file format.

A list of recently used documents may also be accessed from the File menu under Open Recent.

You may also use the Merge option from the File menu to open any file into the same workspace you are using rather than opening a new document workspace.

Finally, compatible file types may also be accessed by dragging the saved file from your computer directly onto your workspace in the software.

Document Tabs

Each new document or opened document will provide you with a new document tab at the top left-hand corner of your screen.



The tab will be labeled as “Untitled” until you save your file with a name, or if you have opened a file that already had a name, in which case the file’s name will be displayed. The white tab will always be the active document while all other opened inactive documents will be grey. You may click on any inactive tabs to make it the active workspace and toggle between open documents. Clicking on the “X” will close any open workspace.

Document Sizes



To adjust your document size to another setting, you may either use the Page Tools option from the View menu, or select the Page icon.

The Page panel will allow you to alter the width or length of your document. There are pre-set common sizes you may select, or you may set measurements manually for any custom page sizes of material you may wish to use.

While viewing the Page Settings menu, if your material is sized to fit onto the cutting mat, the cutting mat will be displayed to help you see how your material may be placed onto the cutting mat to feed into the Silhouette when it is time to cut. Later, as you go to cut, this will also be displayed to help ensure you are feeding your material into the Silhouette correctly. This cutting mat animation may be selected to always be displayed under the Preferences settings.

When the cutting mat is shown, you may select the Reveal Cutting mat option in the Page Settings menu in order to show exactly on your mat where images will be cut in reference to the grid that is printed on the actual cutting mat.



As you slide the bar to the right or increase the percentage number, the white page workspace will become more transparent and show the cutting mat beneath.

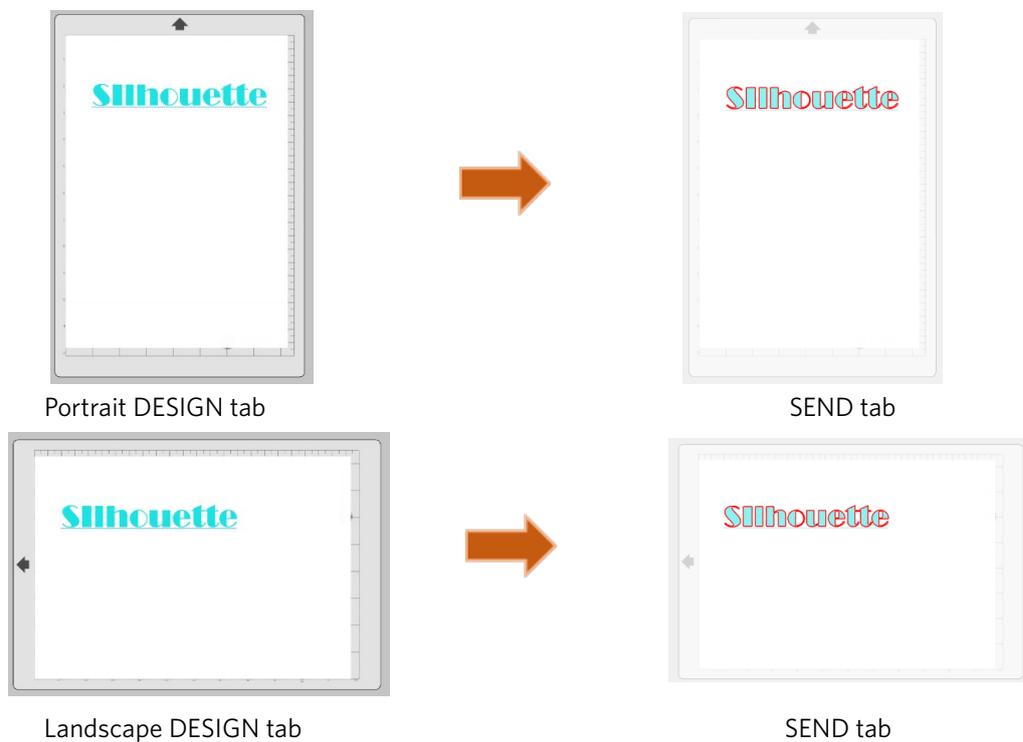
A setting of 100%, or having this bar slid all the way to the right, will allow you to see the cutting mat completely and your white workspace will be entirely transparent.



When viewing in this manner, the red line will still represent your cutting area. Images falling outside of this red cutting area will not be cut. The darker area on the cutting mat represents your printer's print margin area and is only for reference.

Cutting Orientation

Documents may be viewed in Landscape or Portrait orientation. Depending on the orientation of the document that is created under the [DESIGN] tab, the document is displayed in the same orientation on the [SEND] tab as well. When a new document is opened, it is displayed in Portrait orientation as the default.



On the [Page Setup] panel, it is also possible to display a page by rotating it. While the Page Orientation will dictate the way your cutting job is being sent to the Silhouette to cut, the Rotate View option will simply rotate your workspace on the screen for a different perspective.

Viewing and Zooming

Often as you view your workspace, you may either wish to zoom in to get a closer look at smaller images or parts of an image that may be more difficult to work with.

Zoom In



This tool will zoom into the center of your workspace for a closer view.

Zoom Out



This tool will zoom out from your view for a more broad perspective.

Selection Zoom



This tool will allow you to zoom to specific areas of your workspace by drawing a box around the area you wish to zoom into.

Drag Zoom



After clicking on this tool, your icon will appear as the Drag Zoom icon above. You may then click and hold down your mouse to zoom in or out manually to any selected scale.

Pan



This allows you to move your entire workspace around.

Fit to Page



Clicking the Fit to Page icon will immediately fit the full defined workspace to the center of your screen.

Preferences

There are a number of user-controlled options that may be found in the Edit menu (PC) or Silhouette Studio® menu (Mac) under Preferences.

General

This section allows you to manually select the program language and how often you may wish the program to check for available software updates automatically. This section also provides preferences regarding units of measurement displayed in the program. You may adjust the following:

Unit of Measurement

Adjust all displayed measurements to desired unit.

Dimensions

Turn on or off image's measurement properties as images are selected.

Defaults

This section will allow you to adjust the default settings when Silhouette Studio® software is opened. You may adjust the following settings:

Default Fill Style

Provides the ability to select how new user-drawn images are created as to whether they are displayed as an outline only (as red line images or grey line image), or as solid fill images (which may be preferable for the creation of Print & Cut images that are made by the user).

Registration Marks Preference

Adjusts the program to default to have registration marks turned on or off.

Page Orientation

Define whether Landscape or Portrait orientation is desired whenever a new document is started.

Page Border

Gives the option to cut to the edge of your page.

Display

This section provides display options including:

Antialiasing

Helps smooth jagged lines as they are created and viewed. Higher sample rates will increase the smoothness of lines. The "off" setting will produce rougher edges, but increases drawing speed.

Button sizing

Allows for larger or smaller buttons to be displayed.

Animation

Controls speed of animating actions, such as images being moved on undo or redo actions, or during zooming in and out. Can be adjusted to "Instant" to turn animations off.

Background Color Preference

Allows you to determine the color of the inactive workspace area.

Curve Quality

Enhances the visual appearance of lines on screen. Does not affect actual cut quality.

Import Options

Allows you to determine the behavior of various file types when opened.

Tools

This section provides preferences for how you may wish to view bezier control handles and how you would like images to behave when certain modifications are applied. It also provides preferences for adjusting how the program selects images or how various drawing tools either continue to draw or finish upon completion of using the drawing tools.

Advanced

This section provides additional advanced options. In this section, you may adjust the following:

Restore Factory Defaults

Resets all preferences.

Reindex My Library

Performing this action will re-index the library to ensure corruption or errors may be resolved should you experience any concerns with your library loading properly or being able to use the library's Search function properly.

Set Library Permissions

Allows library to be properly accessed according to computer account permissions.

Restore Pre-loaded Designs

Restores pre-loaded designs according to the Silhouette model detected.

Reset Library

This action will remove all images and folders from your library and reset the library back to its original software installation settings.

OpenGL Settings

Attempts to select display issues.

HTTP Sockets

Depending on your internet connection speed, this option may be adjusted to a higher number of sockets to increase the download speed when purchasing images from the Design Store.

IME Setting

Allows for typing of non-western characters.

Proxy Settings

Used for proxy connection setups.

Packet Size

Rate at which information is sent to the Silhouette.



Another program option not in the Preferences menu is the Software Color Theme button located in the bottom right-hand corner of the software screen.

Clicking on this button will cycle through a preselected list of color themes for the software's overall appearance, should you prefer some color other than the default dark grey interface.

04 Drawing/Editing Images

Basic Drawing Tools

Silhouette Studio® allows users to draw and create images very easily through a set of basic drawing tools. All drawing tools are located on the left side of the software screen.

Line Tool



The Line Tool allows for the creation of single straight lines. Holding down the Shift key on your keyboard while drawing will force a straight vertical, horizontal, or 45 increment line from the start point.

Polygon Tool



The Polygon Tool allows for the creation of multiple straight lines. A point will be created upon each mouse click. Lines will continue to be drawn until the image is closed by aligning the end point with the starting point, or by double-clicking the mouse to stop drawing. Holding down the Shift key on your keyboard while drawing will force a straight vertical, horizontal, or 45 increment line from the start point or last point dropped.

Curved Shape Tool



The Curved Shape Tool allows for the creation of multiple curved lines. A point will be created upon each mouse click. Lines will continue to be drawn until the image is closed by aligning the end point with the starting point, or by double-clicking the mouse to stop drawing.

Arc Tool



The Arc tool allows you to draw any size arc on your page.

Rectangle Tool



The Rectangle Tool allows for the creation of a square or rectangle. Holding down the Shift key on your keyboard while drawing will create a square, while holding down the Alt key on your keyboard will make the initial cursor point where your image is started as the exact center of your object.

Rounded Rectangle Tool



The Rounded Rectangle Tool allows for the creation of a square or rectangle with rounded corners. Holding down the Shift key on your keyboard while drawing will create a rounded square, while holding down the Alt key on your keyboard will make the initial cursor point where your image is started as the exact center of your object. As a rounded rectangle is selected, you will find two red control points on the rectangle's upper left-hand corner. These may be dragged to adjust the curves of the rectangle's top and bottom or sides, or you may select both simultaneously by holding down the Shift key on your keyboard and dragging one of the control points.

Ellipse



The Ellipse Tool allows for the creation of an oval or circle. Holding down the Shift key on your keyboard while drawing will create a circle, while holding down the Alt key on your keyboard will make the initial cursor point where your image is started as the exact center of your object.

Regular Polygon



The Polygon Tools allows for creation of shapes of different number of sides. The default number of sides is five, but the slider bar in the middle provides a method of raising or lowering the number to produce different shapes, such as a triangle.

Freehand Tool



The Freehand Drawing Tool allows for the creation of a continuous free-form line. Lines drawn with this tool will continue until the mouse button is released, or the image is closed by aligning the end point with the start point.

Smooth Freehand Tool



The Smooth Freehand Drawing Tool allows for the creation of a smooth, continuous free-form line. Lines drawn with this tool will have smooth transitions and no sharp angles. Lines drawn with this tool will continue until the mouse button is released, or the image is closed by aligning the end point with the start point.

Editing Images

All line points on images may be edited, if changes to the existing image are desired.

Select Tool



The Select Tool determines which image is selected as the active image and allows you to move images around on your screen.

This is your default tool to click on images to show they are selected.

Edit Points

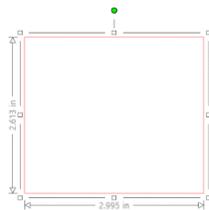


To enter the Point Editing Mode, you may either double-click on a selected image, or use the Edit Points tool. This tool will allow you to edit any points of your image to move them around or remove them. Only single ungrouped line selections may be edited. Ungrouping will be discussed in later sections.

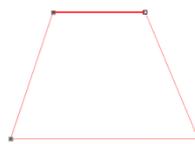
To exit the Point Editing Mode, you may double-click on your image again, or return to the regular select mode by clicking on the Select tool.

Point Editing Mode

When you enter the Point Editing Mode, selected images will change from displaying the resizing and rotating control handles around the image to showing the points, or nodes, of the image. Points on lines are where the line may take a new direction or change from being flat (or straight) to being curved.



Regular Selection



Mode Point Editing Mode

In Point Editing Mode, the selected point will be displayed in white while all other points will be dark grey. The selected line associated with the selected point will be emphasized as a bolded red line. Additional lines that have blue points are handles to adjust curved lines.

In Point Editing Mode, you will also be shown the Point Editing toolbar on the right-hand side of the screen. You may do the following actions in Point Editing Mode:

Move/Adjust Points

Move a point by hovering with your mouse over any point on the line. Once over a point that may be edited, the cursor will adjust to show you may click and grab the point to move it to any desired location. With curved lines, you may similarly grab the blue points and drag them around the screen to adjust the curve of the associated line segment.

Add Points

Add a point by hovering over the line where no points currently exist where you may wish to drop a new point to edit your image. Once over a line where a point may be dropped, the cursor will be adjusted to show you may click to drop a point onto the desired line location.

Delete Point



Any selected point will be deleted by using the Delete Point tool, or by right clicking on the selected point and choosing the Delete Point option. Deleting a point will cause the closest points on either side of the deleted point to join and create a new connecting line. Note that this tool is different from deleting an image and is only intended to delete individual points. It will only be available while in Point Editing Mode.

Break Path



You may break the path of any line point by using the Break Path tool, or by right clicking on the selected point and choosing the Break Path option. Breaking a path will create two new points from the originally selected point where the path was broken.

You will note that a broken path, or two unconnected end points of opposite ends of the same line, may be re-joined by dragging one end point onto the opposite end point of the image.

Corner



The Corner tool will allow a selected point to be so that the control handles at the selected intersecting point can be adjusted each individually to create a sharp corner.

Smooth



The Smooth tool will allow a selected point to be adjusted to make a smooth transition point at the selected intersecting point.

Make Flat



The Make Flat option will adjust the selected line (the line emphasized in bold red that is associated with whichever currently selected point) to a flat, straight line.

Make Curve



The Make Curve option will adjust the selected line (the line emphasized in bold red that is associated with whichever currently selected point) to a curved line.

Simplify



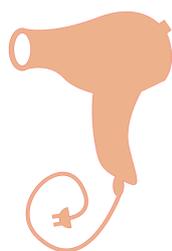
Some library images or other imported images from other sources may contain a very large number of points. The Simplify tool will automatically re-adjust the image's points and simplify the image to its simplest possible point form while maintaining the image's original overall line form.

Aside from the tools found in Point Edit Mode, there are two additional editing tools found on the left-hand side of the screen.

Eraser Tool



You may erase any part of any image using the Eraser tool to easily and immediately remove inner parts or edges of the line image.



Original Image

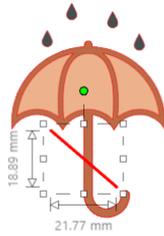


New Image Using Eraser Tool

Knife Tool



You may segment images using the Knife tool. This tool delivers a straight-line cut to separate parts of images to create a new separate independent shape.



Original Image



New Image Using Knife Tool

Line Tools

Lines in the program, including text, images created using the drawing tools, and library images, may be altered to have different properties.

Line Color Options



While lines will default to be displayed in red, you may alter lines to any desired color. Altering line colors will not affect their properties in how they may cut. Altering line colors may be helpful to allow you to more easily view different images or image parts, see lines in whichever color you may prefer to view them, or adjust image parts specifically with printing in mind for Print & Cut jobs where it may be important that line colors are selected to be printed.

To adjust line colors, select your image and access the Line Color menu by clicking on the icon shown above. You may then select any of the Basic Menu color options. The hash line selection will always represent "clear". The color picker tool will allow you to select any color from another object in the drawing area to duplicate the desired color.



Clear



Color Picker

The Advanced Options menu will allow you to create lines in any desired custom color. You may either drag the target on the color spectrum to visually match the color you are looking for, or type in the RGB (Red Green Blue) or HSL (Hue Saturation Lightness) value of your desired color. You will also have the ability to adjust the Transparency of the line.

Line Style Options



Within the Line Style menu, you may adjust the style of your line to be a solid (default) or dashed style line. Lines will accordingly be cut or printed in the selected style.

Lines are viewed in point sizes regarding their width. The point size may be adjusted to any desired specification. While line width may be adjusted, the line will always be cut or sketched in a fixed width; that is, according to how thick the blade or pen is that you are using.

Line thickness may be adjusted by either manually dragging the Thickness option bar or by typing in the desired point thickness.

The Corner Style option will adjust how lines appear at any of the image's corner points where Corner is a sharp edge whereas Rounded will be a smoother edge.

The End Cap Style option will only adjust lines that have open ends. Flat or Square provide varying sharper flat edges at the line tip whereas Rounded provides a smoother rounded edge to the line tip.

The Position option will adjust if the line is In Front of a filled image, or Behind the filled image. To print out an image, it is necessary to check the "Print Lines of Selected Shapes" checkbox and set a value other than zero to the line thickness in advance.

Fill Tools

Closed images (where the starting point of the line connects with the ending point of the line) including Text, images created using the drawing tools, and library images, may be altered to have different filled properties. Only closed images may have filled attributes. If the path is broken on any closed images, any applied fill attributes will immediately disappear.

Fill Color Options



While closed images will default to be displayed as empty, you may fill any closed image with any desired color. Altering fill colors may be helpful to allow you to more easily view different images or image parts, see shapes and text in whichever color you may prefer to view them, or adjust images specifically with printing in mind for Print & Cut jobs.



To apply fill colors, select your closed line image and access the Fill Color menu by clicking on the icon shown above. You may then select any of the Basic Menu color options. The hash line selection will always represent "clear". The color picker tool will allow you to select any color from another object in the drawing area to duplicate the desired color.



Clear



Color Picker

The Advanced Options menu will allow you to create fill colors in any desired custom color. You may either drag the target on the color spectrum to visually match the color you are looking for, or type in the RGB (Red Green Blue) or HSL (Hue Saturation Lightness) value of your desired color, if you are seeking a specific known color. You will also have the ability to adjust the transparency of the filled color by manually dragging the Transparency option bar or by typing in the desired percentage of how transparent you wish the filled color to be, where 0% is solid and 100% is completely clear.

Fill Gradient Options



Similar to filling images with solid colors, you may also select to fill any closed line images with a gradient fill.

To apply gradient fill options, select your closed line image and access the Fill Gradient menu by clicking on the icon shown above. You may then select any of the Basic Menu precreated gradient options. The hash line selection will always represent "clear".



Clear

You may also alter the basic direction of the gradient by clicking on any of the Direction options at the bottom of the Basic Options panel.

The Advanced Options menu will allow you to create your own custom gradient fills based off of the last gradient fill selected. Gradient fills will always have a minimum of two colors, with one color at the top and one color at the bottom. The gradient will then create a range between the two selected colors.



You may change either of these colors in the range by clicking on the color arrow bars on the left-hand side of this gradient creator tool. Once the color is selected, you may then select any new color from the Select Color tools directly below. You may also add new bars at any interval between the top and bottom colors, or slide any color bars in between the top and bottom gradient color bars up and down to create new gradient effects.

Also in the Advanced Options is the ability to rotate the angle of the gradient effect to any customized degree by either manually dragging the Angle tool or by typing in a specified degree. You will also have the ability to adjust the transparency of the line by manually dragging the Transparency option bar or by typing in the desired percentage of how transparent you wish the filled gradient effect to be, where 0% is solid and 100% is completely clear.

Fill Pattern Options



The final fill option is used to fill any closed line images with a pattern fill. To apply pattern fills, select your closed line image and access the Fill Pattern menu by clicking on the icon shown above. You may then select any of the pattern options.

Once your desired pattern fill is selected, the Advanced Options menu will allow you to adjust the pattern's direction Horizontally or Vertically, or adjust to either a Fixed or Stretch aspect ratio. Options are provided in this menu to rotate the pattern by either simple preset degrees, or to any customized degree by either manually dragging the Angle tool or by typing in a specified degree.

In addition, you have the ability to scale the pattern's size to alter the pattern itself as it fills the selected shape. You may do this by either manually dragging the Scale Pattern bar or entering a new percentage value of how much larger or smaller you may wish to make the filled pattern.

You will also have the ability to adjust the transparency of the line by manually dragging the Transparency option bar or by typing in the desired percentage of how transparent you wish the filled gradient effect to be, where 0% is solid and 100% is completely clear.

Additional patterns may be downloaded from the Silhouette Design Store.

You can create patterns from your own images by going to File > Import > Import Options. Navigate to the image you would like to use and select it. A new dialogue box appears where you can add information about the image. Press OK to add the image to the User Designs folder in your library. From there, you can drag your image onto any fillable shape on your workspace.

Shadow Options (paid version only)

You can add and adjust a shadow by clicking the Shadow icon in the toolbar above the workspace. In the Shadow menu, you can adjust the shadow offset, color and transparency.

*Function of [Image Effects] panel

Sketch Options



Create a sketch design by clicking the Sketch icon in the toolbar above the workspace. In the Sketch menu, you can adjust the sketch edge, fill type, and fill effect.

Rhinestone Options (paid version only)



Create a rhinestone design by clicking the Rhinestone icon in the toolbar above the workspace. In the Rhinestone menu, you can choose a rhinestone effect, rhinestone size and spacing, and placement options.

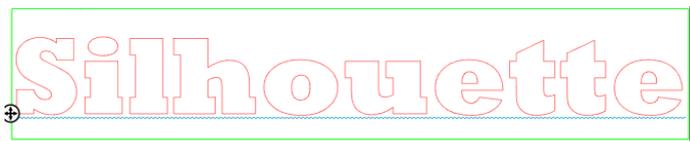
05 Text

Creating Text

A Silhouette Studio® has the ability to utilize any font that is installed on your computer. You do not need to install these fonts into the program. Silhouette Studio® will simply access all installed font files and display them for you as you go to create your desired text.

To use your fonts, click on the text tool located on the left-hand side of the software screen.

Clicking this will allow you to place a text cursor onto your workspace and begin typing directly onto the screen.



The red blinking line is your cursor to show where you are typing. You may back up or move forward by either clicking your mouse or using your computer's right and left arrow keys.

The surrounding green box is your text box. This box may be adjusted by clicking and holding the black bar on the right edge of the text box. Dragging this bar to the left will allow you to wrap your text. Dragging this bar to the right will allow you to bring text back toward being on a single linear path.

You may double-click or click outside of the text to exit the Text Editing Mode. You may return at any time to re-edit any words or letters by double-clicking again on your created text.

Manipulating Text

During the creation of your text, the Text Style menu will be opened on the right-hand side of your screen providing multiple adjustment options.

Available Fonts

The first section of this menu will display the current selected font with additional font options that are installed on your computer you may scroll through. The top of this section may be used to search for any specific font by typing in a font name if it is known.

You may change fonts during the Text Editing Mode and use a new font within the same text box with other fonts. Different fonts may also be applied to existing text or letters during Text Editing Mode by highlighting the desired string and selecting the newly desired font. If you are not in Text Editing Mode, new fonts may still be applied to selected text, but such adjustments will change the font for the entire selected text box.

Font Characteristics

Some fonts are programmed to enable the use of certain style characteristics allowing you to bold, italicize, or underline text or letters. These characteristics will only be highlighted to be available for selecting if the font in question is programmed with that characteristic and such characteristics can be applied. To apply one of these characteristics, you may highlight the intended letters or words and then click on the available characteristic.



While Bold, Italic, and Underline options are displayed, if there are any additional available options programmed for the selected font, a scroll bar will appear on the right-hand side of this option box allowing you to scroll down and view whatever other options may be programmed.

Text Justification



While text will be automatically be justified to the left, if your text is wrapped on multiple lines, you may alter your text justification as desired.

Text Size

Text size will always default to 72-point size. This refers to the font's printed font size. Though fonts vary as they are programmed by a wide variety of sources, this will generally equate to roughly a one (1) inch height (or 25 mm). The most common point sizes for print-format fonts are included in the available drop-down list, though any custom number may be manually typed into this size preference.



Other common equivalent measurements in the list include:

- 18 pt = 0.25 inch (6 mm)
- 24 pt = 0.33 inch (8 mm)
- 36 pt = 0.5 inch (13 mm)
- 48 pt = 0.66 inch (17 mm)
- 144 pt = 2 inches (50 mm)
- 288 pt = 4 inches (100 mm)

Again, these measurements are approximations and will vary from font to font, so if you are seeking to obtain a specific measurement, you may wish to alternately re-size your text to your desired specification after creation.

Character Spacing

Letters may be adjusted from their normally programmed spacing to either bring them closer together or push farther apart with the Character Spacing option.



Spacing will always start at 100% indicating spacing between characters are normally distanced. As the number is lowered or the bar is slid to the left, letters will come closer together. As the number is raised or the bar is slid to the right, letters will become spaced farther apart.

Line Spacing

If your created text is wrapped to multiple lines, you may similarly increase or decrease the Line Spacing option to adjust the distance between lines of text.



Spacing will always start at 100% indicating spacing of lines are normally distanced. As the number is lowered or the bar is slid to the left, text lines will come closer together. As the number is raised or the bar is slid to the right, text lines will become spaced farther apart.

Text to Path



As text is created, or while in Text Editing Mode, you will find a control point located on the left-hand side of the text being created:



This control point may be dragged to rest directly on any line path within your workspace. For example, you may create an oval with the Ellipse tool and then drag your text onto this line to achieve an arced effect:

As text is applied to a path in this manner, you will note a vertical bar to the left of the text. This allows for a new control bar which can be used to adjust the placement of your text relative to the line onto which the text has been applied so that it may be placed on, above, in line with, or below the path.

Note also that the object used as a path will turn grey. This indicates that this image is now turned off for cutting purposes. If you wish to re-enable the object being used as a path to cut, you may visit the Cut Style Options as previously discussed and select Enable Cut Style as the grey path object is selected.

06 Manipulating Images

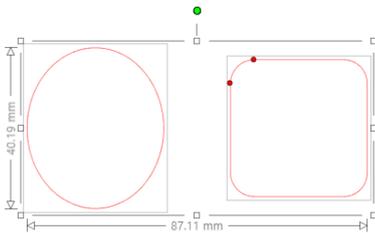
There are many tools in Silhouette Studio® allowing for basic and advanced manipulation of images and text. The following section provides an overview for all of these included tools and how they may be used.

Basics

Like most any software program, Silhouette Studio® has a set of common basic editing tools as follows:

Selecting

Images may of course be selected by clicking on them. Multiple images may be selected by holding down the Shift key on your computer keyboard and clicking on another image. You may repeat this action to select as many images as desired. Holding down the Shift key and clicking on an image that is already selected will deselect that image.



Multiple images may be also be selected by clicking above an image and dragging your mouse to enclose all desired shapes to be selected at the same time. As you hold your mouse button down and drag your mouse, you will see a dashed line creating a selection box showing what you are selecting. Upon letting go of your mouse, all enclosed images in this box will be selected together in the same bounding box.



If you wish to select all available images on the screen together, you may click on the Select All button located in the Quick Access Tool bar.



If you wish to select only those images that are the same color, you may click on the Select by Color button located on the right-hand side.



If you wish to deselect all currently selected images, you may click on the Deselect All button located in the Quick Access Tool bar.

Cut, Copy, and Paste Tools



These tools perform the basic expected actions of copying selected images, pasting them, or cutting them from view. Images copied or cut will reside in your computer's memory on a virtual clipboard. You may only have one object on this clipboard at a time. This means if you copy one image and then copy another, only

the most recent image will be waiting on the clipboard to be pasted. These actions may be accessed from the top tool bar, in the Edit menu, or by right-clicking on an image, as well as by using standard shortcut keys for these actions.

Pasting copied images will place the copy directly to the right of your original image so you may easily see and find your copy. An additional Paste in Front option is also provided to be able to paste a copy of an image directly on top of itself and is found in the Edit menu, in the right-click menu for the selected image, or by using standard shortcuts for this action.

Duplicate



The Duplicate option performs the same action as copying and pasting the selected image to the side, but does so without the need of utilizing your clipboard and is a one-click operation. This toolbar button is located at the top of the software screen and can alternately be located in the Edit menu or by right-clicking on a selected image.

Delete



Selected images may be deleted from your workspace by clicking on the Delete button located at the top of the software screen, by accessing the Edit menu and selecting Delete, right-clicking a selected image and choosing the Delete option, or by simply pressing the Delete key on your computer keyboard.

Undo/Redo



Any action taken, including simply moving an image, may be undone. To back up to the previous action taken, click the Undo button. There are an unlimited number of actions you may go back to with the Undo button, including going back to when you first opened your new workspace.

Similarly, you may click the Redo button to repeat any actions you may have undone. You may continue to use this button until you return to the last action taken.

Transfer Properties (paid version only)



Properties such as line color and cut style can be transferred from one shape to another by selecting the shape you want to transfer properties to, selecting the Eye Dropper icon in the left-hand tool bar, and then clicking on the shape you want to imitate.

Layers (paid version only)

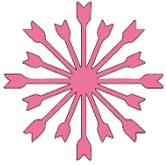


When you import a project with layers created in another program, you can access those layers in the Layers panel. You can also use the +/- keys to add or remove layers in Studio.

Grouping/Ungrouping

These two actions are commonly used and are invaluable tools for helping to manipulate and adjust images. To understand these concepts we must first understand what grouped and ungrouped images are.

The following is an example of a single line:



While the image may have many parts, it is still just one line with a single starting point and end point.

The following is an example of a multiple line image:



This image has two line sets with the body of the leaf and stem being one part and the inner details of the leaf being another. This image is grouped together so that if moved around on your screen, you do not have to move the outer line of the leaf and then move the center part independently and try to align it inside.

While it is not necessarily important to know exactly how many line parts an image has, it is important to understand that single line images are not grouped together with anything, while anything that has multiple parts is or can be grouped.

Grouping

Any two sets of lines can be grouped together so they are fixed in their relative positions, even if moved, by using the Group option.



To use the Group option, select two or more images at the same time and click on the Group icon located in the Quick Access Tool bar. This can alternately be located in the Object menu or by right-clicking on the multiple selected images and selecting Group.



Any image that contains more than one line set can be ungrouped so that parts of the image may be treated independently, removed, rotated, resized, or otherwise manipulated rather than having to manipulate the image as a whole.

For example, you may wish to cut out this coffee cup image, but want to ungroup the image in order to remove some of the inner decorations of the image:



Once ungrouped, the image will be displayed showing individual selection boxes around each new ungrouped image part that can now be manipulated.



To access the individual ungrouped parts, you may unselect your image.

Compound Paths

The concept of compound paths is important in order to understand why certain attributes may be applied differently to seemingly identical situations. Compound paths are a collection of two or more line sets where inner lines are embedded into the image. A compound path may appear the same as a grouped set of lines, but is quite different in the way it will react to being filled with color, for example.

Compound paths are only really a concern when you are creating Print & Cut images.



Non-compound Image

Compound Path Image

In the previous examples, the top two images are seen straight on and appear to be identical. However, when looking at the bottom set of images the differences become apparent. With the image on the left, from a side view we are actually looking at a grey butterfly with white spots resting on top. This is an image that is not a compound path. With the image on the right, from a side view we see that we are looking at a grey butterfly with white spots embedded into the image.

Of course, as we go to cut or sketch both images with the Silhouette, they will cut out in the exact same manner, but it is important to understand that there is a difference between these images as you may wish to achieve certain effects with filling images for Print & Cut applications.

For example: This is the same image unfilled. All parts are grouped together.



If this is a non-compound image and it is filled with a color feature, this will be the result:



Even though grouped together, all line sets are still just individual pieces lying on top of each other, so they are all filled with the selected fill effect.

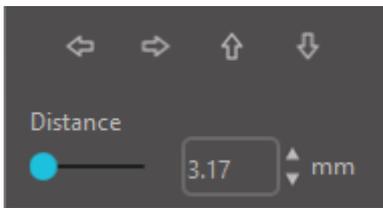
If this image has a compound path and it is filled with a color feature, this will be the result:



The unfilled parts of the image cannot be filled with compound path images because these embedded areas are negative space. Compound paths can still be ungrouped to move multiple image parts around, but the action of ungrouping will immediately release the compound path and make it a non-compound path image. To make a series of multiple selected images a compound path, you may right-click until the multiple parts are all selected and select Make Compound Path. Similarly, you may right-click on a compound image and select Release Compound Path to perform the opposite action. These options may also be found in the Object menu.

The following section explains the functions that are accessible from the [Transform] panel.

Moving Images



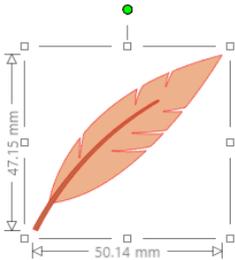
Images may obviously be moved by selecting them and then dragging them around the screen with your mouse to any desired location. Selected images may also be moved by using the arrow keys on your computer keyboard.

You may also move images through the Move menu panel.

Selected images may be moved by using any of the Move options. The directional arrows in this screen will move images subtly in whichever direction you select. This action may be repeated until your image is located on your workspace as desired. The Move By option will move selected images from the current location by whatever measurement is entered, while the Move To option will move images regardless of present location to a specific plotted course on your workspace, where a measurement of 0, 0 (zero, zero) represents the upper left-hand corner of your workspace and moves out from that point either to the right or downward as the values increase.

Rotating

Objects may be rotated to any desired angle. Selected images will always appear with a green rotation handle-bar that may be manually grabbed and rotated using your mouse.



Rotate functions may be accessed in the Transform panel. The Rotate menu options will also provide additional rotation options for more exact or specific rotation options.

Within the Rotate menu you may select any of the following options:

Rotate By

These options will rotate the selected image by the selected common angle from the image's current angle.

Rotate To

These options will rotate the selected image to the selected angle based on the image's original fixed 0° point.

Custom Rotate By

This option will allow you to either manually slide a degree measurement bar or enter a specific degree measurement and apply to rotate the selected image from the image's current angle.

Custom Rotate By

This option will allow you to either manually slide a degree measurement bar or enter a specific degree measurement and apply to rotate the selected image from the image's current angle.

Custom Rotate To

This option will allow you to either manually slide a degree measurement bar or enter a specific degree measurement and apply to rotate the selected image based on the image's original fixed 0° point.

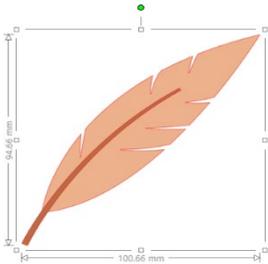
Center of Rotation (paid version only)

To adjust the point around which your shape rotates, you can adjust the center of rotation. To do so, select the shape you want to rotate, press the letter 'O' on your keyboard to display a small cross-hair icon in the center of the shape. You can then move the cross-hair icon to the desired new point of rotation.

Sizing

Objects may be sized to any desired measurement. It is important to note, however, that while you may customize images to any desired size, the quality of cuts made may vary, especially when cutting thicker materials such as cardstock. Reducing the size of an image with intricate parts and cutting it in a thicker material is an example where the cut quality could suffer.

You will be able to view the measurement alongside your image as you draw or select images.



There are also control points on the selection box for resizing images manually. To resize manually, simply click on any of these boxes and drag your mouse in the desired direction to make your shape larger or smaller. The corner control points will proportionately resize the image and maintain the relative height and width, while the side control points will stretch your image in the direction your mouse is dragged.



The Scale menu options will also provide additional sizing options for more exact or specific rotation resizing options.

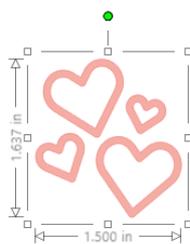
Within the Scale menu you may select any of the following abilities.

Scale

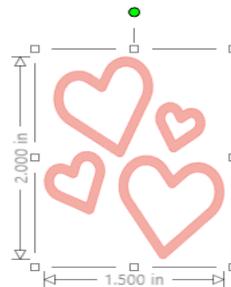
These options will resize any selected images by a percentage of its current size. Any number under 100% will make your image smaller and any number over 100% will make your image larger. For example, selecting to resize your image to 50% of the current size will make your image half as large while selecting to resize your image to 200% of the current size will make your image twice as large. Any custom percentage may be applied as desired.

Specify Dimensions

This option will allow you to resize a selected image to any specific measurement. The Lock Aspect Ratio option when checked will ensure your image is resized proportionately when only one measurement is being altered but you wish to maintain the image's proportions.



With Lock Aspect Ratio



Without Lock Aspect Ratio

Shear (paid version only)



Use Shear to skew your design vertically or horizontally. You can select from preset amounts or specify a custom shear.

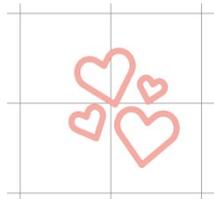
Grid



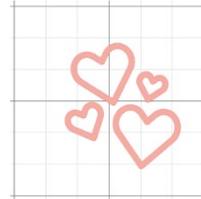
To assist with viewing measurements, you may also opt to turn on the grid by either right-clicking on your workspace while there are no images selected and clicking on Show Grid, or by going to the Grid menu.

*It is also possible to show the grid by using [Grid Settings] in the [Page Setup] panel.

In the Grid menu you may turn the grid on and off, adjust the grid spacing to any desired measurement, and define the number of divisions in the grid.



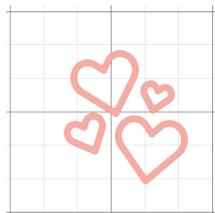
Single Division



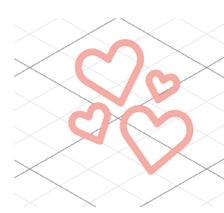
Multiple Sub-Division

The Snap to Grid option when enabled will force the image to conform to grid's measurement and divisions. This may be especially helpful when drawing images to force them to conform to specific desired measurements.

The grid's Style may be selected to be either a traditional Square grid or an Isometric grid. Again, the different styles may be helpful while drawing images within the software to provide a reference for measurement as you draw.



Square Grid



Isometric

The grid's Color can also be adjusted as desired and offers a preselected set of color suggestions which may provide a non-intrusive appearance for your grid, though any custom color may, of course, be selected. In the paid version, you also have the ability to activate Rulers and Crosshairs to help make the layout easier.

Mirroring

Some materials or situations require images to be cut in a mirror image format, or you may simply want to flip objects around to achieve your desired image appearance.

To mirror an image, you may right-click any selected image to select the Mirror Horizontally or Mirror Vertically option.

Silhouette

No Mirror Effect

etteuonliS

Mirrored Horizontally

etteuonliS

Mirrored Vertically

etteuonliS

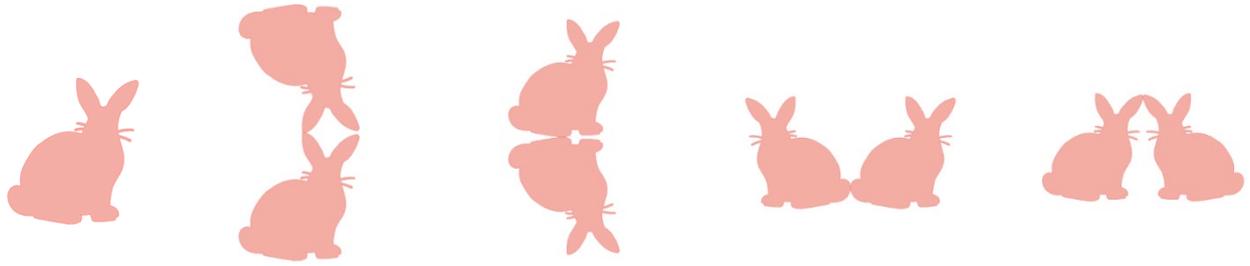
Mirrored Horizontally and Vertically

Further mirroring options may be accessed in the Replicate panel.

In this menu, you may likewise flip your images around (as displayed above) under the listed Flip menu options.

You may additionally create mirror copies of selected images with the Mirror menu options, where you may create a mirrored copy to the left, to the right, mirrored above, or mirrored below.

To mirror an image, you may right-click any selected image to select the Mirror Horizontally or Mirror Vertically option.



Original Image Mirror Copy Above Mirror Copy Below Mirror Copy Left Mirror Copy Right

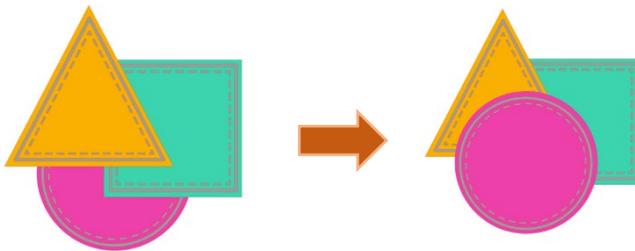
Arranging

Multiple images may overlap each other. The order of which image is in front and which is in back can be arranged. This is mostly used with filled images for Print & Cut applications so you can determine which image should be in front of the other.

Bring to Front



This option will take your selected image and move it in front of all other overlapping images.



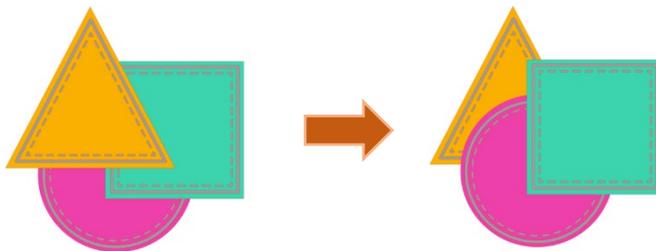
Original Image

Order Circle Selected and Brought to Front

Send to Back



This option will take your selected image and move it behind all other overlapping images.

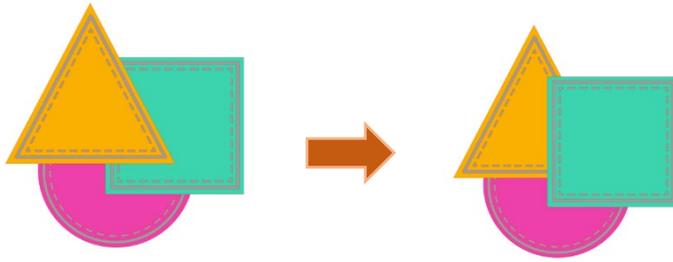


Original Image

Order Triangle Selected and Sent to Back



In addition to these options, you may also right-click on an image and select Send Backward to send the selected image one level back rather than all the way to the back.

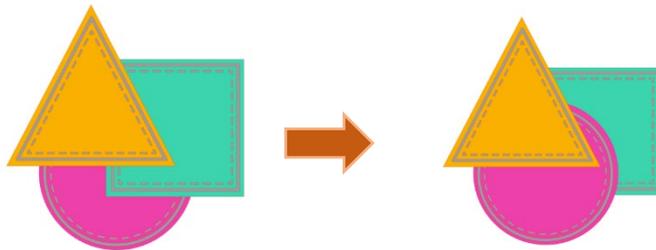


Original Image Order

Triangle Selected and Sent Backward



Similarly, you may right-click on an image and select Bring Forward to bring the selected image one level forward rather than all the way to the front.



Original Image Order

Circle Selected and Brought Forward

Aligning



Multiple images may be aligned in relation to each other. The following Align options are available:

Centralize (Align Center-Middle)



This option will center two or more selected objects so that they are lined up with each other in the middle of each other.

Align Left



This option will align two or more selected objects so that they are aligned together to the left edge of the shared bounding box while maintaining their respective distances in regard to being above or below each other.

Align Center



This option will align two or more selected objects so that their center points are aligned together while maintaining their respective distances in regard to being above or below each other.

Align Right



This option will align two or more selected objects so that they are aligned together to the right edge of the shared bounding box while maintaining their respective distances in regard to being above or below each other.

Align Top



This option will align two or more selected objects so that they are aligned together on the top edge of the shared bounding box while maintaining their respective distances in regard to being next to each other.

Align Middle



This option will align two or more selected objects so that their center points are aligned together while maintaining their respective distances in regard to being next to each other.

Align Bottom



This option will align two or more selected objects so that they are aligned together on the bottom edge of the shared bounding box while maintaining their respective distances in regard to being next to each other.

Space Horizontally



When a minimum of three objects are selected, this option will take all images and space them horizontally so that all objects are equidistant from each other horizontally.

Space Vertically



When a minimum of three objects are selected, this option will take all images and space them vertically so that all objects are equidistant from each other vertically.

Replicating



Replicating while similar to copying and pasting an image or duplicating it allows for the ability to create any number of copies and place them at once without the need to copy and paste the images multiple times and then have to place them manually around the screen as desired. These options will also create copies next to each other as closely as possible to maximize your cutting area.

You will find the following options in the Replicate options basic menu.

Duplicate Left



This option will duplicate the selected object and place a copy directly to the left with the most minimal amount of space between the objects as possible.

Duplicate Right



This option will duplicate the selected object and place a copy directly to the right with the most minimal amount of space between the objects as possible.

Duplicate Above



This option will duplicate the selected object and place a copy directly above with the most minimal amount of space between the objects as possible.

Duplicate Below



This option will duplicate the selected object and place a copy directly below with the most minimal amount of space between the objects as possible.

Row of Three / Row of Four



These options will copy the selected object and replicate two or three additional copies next to each other in a row, stacked horizontally next to each other, with the most minimal amount of space between the objects as possible.

Column of Three / Column of Four



These options will copy the selected object and replicate two or three additional copies next to each other in a column, stacked vertically on top of each other, with the most minimal amount of space between the objects as possible.

Rotate One Copy / Two Copies / Three Copies / Five Copies



These options will copy the selected object and replicate one through five rotated copies on top of the original image.

Fill Page



This option will copy and replicate the selected object and fill the cutting area with as many copies possible.



In the Replicate menu, you may also access an Advanced Options menu. Here you will have the option to select any desired number of copies to replicate your selected image and the distance between these replicated images, including the ability to select any custom direction. Once the desired number of copies and direction has been selected, you may click on the Replicate button at the bottom of the Advanced Options menu to apply the selected attributes.

Object to Path



This option allows you to take one object and place it on the path of another object. Once it is on the path, you may make copies and duplicate the object by simply pulling on the control handles.

Nesting (paid version only)



To minimize the space required to cut a certain design, the Nesting feature can be used. You can choose to use your entire media surface to nest you shapes or create a specific area for them to nest in.

Use Cut Area

If you choose to Use Cut Area, your entire media surface can be used to nest shapes.

Convert the selected range into a custom border

If you would like to nest your shapes within a certain area, first draw that area on your workspace. Next, click on Use Selected in the Nesting menu. Nesting will occur within this defined area.

Select all the shapes you would like to nest. In the Nesting menu, you can adjust the rotations and padding of the shapes to be nested. Increasing rotations and/or decreasing padding will yield a tighter nest.

After making any necessary adjustments, click Nest and the shapes will nest together to maximize space. If you have selected more shapes than will fit in the nesting area, the software will determine which shapes fit best in the defined area.

Modify



Overlapping images may be altered in a variety of ways. The Modify menu options provide welding and other advanced options to allow overlapping images to be adjusted.

Within the Modify menu you may select any of the following abilities.

Weld



While the Weld option may be found in the Modify menu, there is also a quick access button located along the bottom tool panel of the software screen. Welding will take two or more selected overlapping images and join them together into one single continuous image.

Silhouette

Non-welded image with overlapping lines

Silhouette

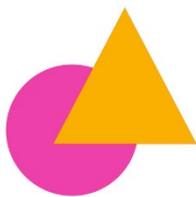
Welded image with overlapping lines removed

Welding can be particularly useful when cutting so that the cut lines don't overlap during the cutting process.

Subtract All



This option will remove any portion of an image that is in back behind another image.



Original Image

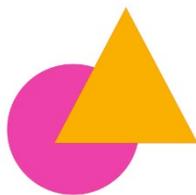


With Subtract All Applied

Divide



This option will create individual images from the intersections of up to eight selected images.



Original Image

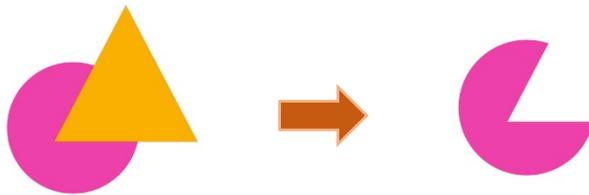


With Divide Applied

Subtract



This option will remove all overlapping parts of images that are in front of other images, so that only the image located in back will remain with the overlapping parts removed.



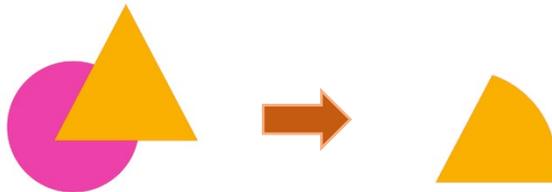
Original Image

With Subtract Applied

Intersect



This option will leave only the overlapping part, or intersecting part, of the selected images when applied.



Original Image

With Intersect Applied

Crop



This option will remove all areas that are not shared by at least two shapes when overlapping.



Original Image

With Crop Applied

Compound Paths (Make / Release)



These options are the same options as the Compound Paths that were mentioned earlier. This tool will take overlapping embedded images and either, Make them into a compound path or Release the compound path.

Detach Lines



When images are filled or have thick lines defined, this option may be used to detach and move the outline to create two separate images; one with just the lines and one with just the filled effects left behind.

Offset Options



The Offset option may be used to outline cut-line images giving the image a shadowed mat effect underneath it. It may also be used to create contoured inner lines for images.

To apply offset conditions, you will first need to select an image.

Original Starting Image

Within the Offset menu you may start by selecting the offset action.

You may select to either have your offset image have a sharper Corner appearance, or have a softer more bubbly Round appearance.

Though clicking the offset action button provides a starting point, you may fine tune the offset effect to any specified Offset Distance with the slider bar, or by typing in a specific measurement.

At any point your desired effect is achieved you may set the properties of the newly created image into place by clicking Apply.

Offset Image

You may conversely create an internal offset condition.

This feature is generally better suited for the creation of internal lines for use with sketch pens.

Tracing Options



By using the Trace function, it is possible to make a cut line around an image (extraction of contour).

Select Trace Area

By clicking this button and dragging the area around an image, specify the area to be traced.

Trace Preview

Select whether to trace a filled area or a contour.

Threshold

Specify the value for creating a cut line based on the original image.

The higher the value, the more in detail the extraction is conducted.

Adjust the threshold while checking the preview screen and set the position where you create a cut line.

Filter

The High Pass filter is used to detect image edges in detail and extract the traced part inwardly from the outer side.

Through this process, the contour of an image can be cleared.

Scale

The Scale slider controls the smoothness of the pixels of an image. Only when an image has low quality and is highly pixelated as seen in the pencil sketch is it necessary to adjust the [Scale] slider.

Trace Style

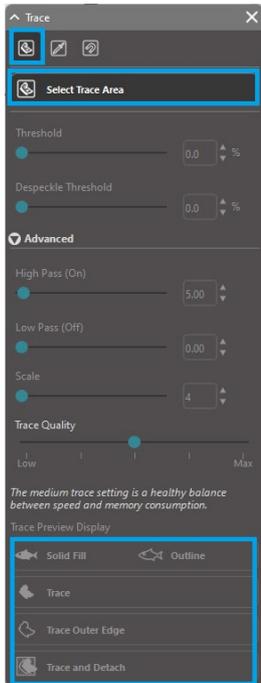
This is used to select a trace type. Once the trace range is determined, click [Trace Style] to execute tracing and make a cut line.

- Trace: Creates a cut line as per the preview screen.
- Trace Outer Edge: Creates the outermost cut line only.
- Trace and Detach: Conducts tracing, creates a cut line, and cuts out the image from the background.

Read and trace image file

This function creates a cut line by using an image you want to cut. By using the trace function, it is possible to create a cut line around an image.

1. On the "File" menu, select "Insert".
2. Select the image you want to cut and press "OK".
3. When the image is placed, you may adjust your settings (size and position), if needed.
4. From "Panel Display", select the "Trace" panel to display the "Trace" settings screen.
Click "Select Trace Area" and drag the area around the image to select it.
The inside of the image is painted yellow. The part painted yellow is traced, and cut lines are created around it



<When Trace is selected>



<When Trace Outer Edge is selected>



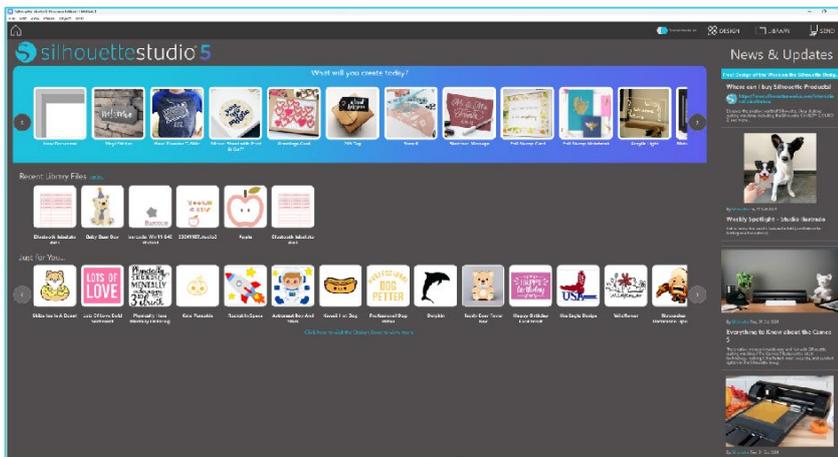
07 Library and Design Store

Silhouette Studio® has a library function, which allows you to easily save, sort, and refer to downloaded images and images created by the user, and Silhouette Design Store from which it is possible to download new contents.

Silhouette Design Store is a website where over 200,000 pieces of high-quality design data that can be used in Silhouette cutting machines.

By simply downloading the desired data, even those who find it difficult to make designs can easily create beautiful artworks.

The Home screen of the software has library and store views. The library can also be viewed by using the upper right panel.



Library

In Library, it is possible to access original data created by the user and data purchased from the Design Store.

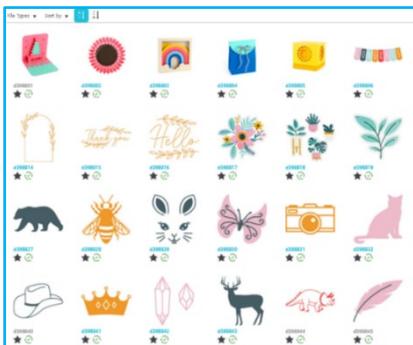
Viewing



Selecting the icon display option displays the images in the library as icons.



Selecting the list display option displays the images in the library as a list. In the list mode, it is possible to sort images by Name, Date, Category, Artist, Type, and Size.



Library in Icon View mode

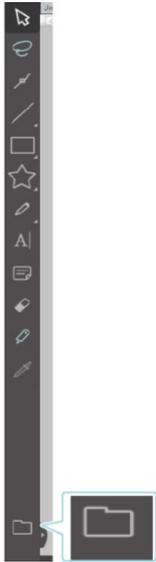
Name	Date Modified	Category	Artist	Type	Size
4798801	2024/06/21	General		jpg	21.9 KB
4798802	2024/06/21	General		jpg	35.3 KB
4798803	2024/06/21	General		jpg	21.8 KB
4798804	2024/06/21	General		jpg	21.8 KB
4798805	2024/06/21	General		jpg	26.8 KB
4798806	2024/06/21	General		jpg	16.8 KB
4798807	2024/06/21	General		jpg	21.8 KB
4798808	2024/06/21	General		jpg	24.7 KB
4798809	2024/06/21	General		jpg	16.3 KB
4798810	2024/06/21	General		jpg	15.3 KB
4798811	2024/06/21	General		jpg	25.2 KB
4798812	2024/06/21	General		jpg	24.3 KB
4798813	2024/06/21	General		jpg	37.2 KB
4798814	2024/06/21	General		jpg	15.4 KB
4798815	2024/06/21	General		jpg	21.4 KB
4798816	2024/06/21	General		jpg	37.2 KB
4798817	2024/06/21	General		jpg	39.9 KB
4798818	2024/06/21	General		jpg	35.7 KB

Library in List View mode

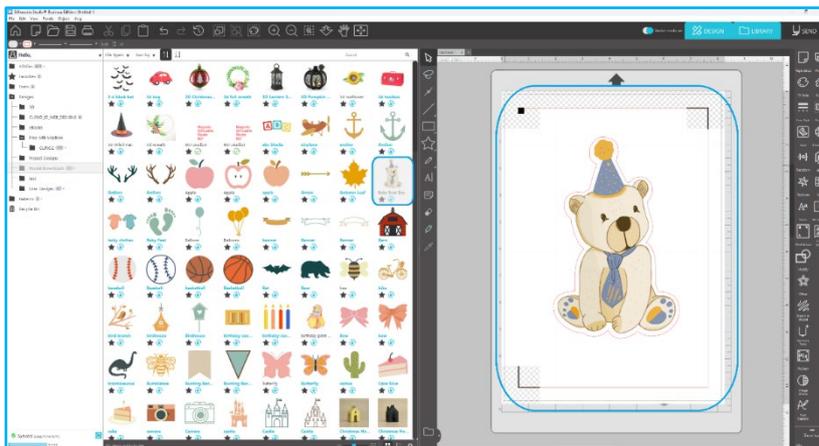
Accessing Library Content

By following the steps below, it is possible to access library images.

- 1 Click the Library icon below [Design Tool] on the DESIGN tab.



- 2 By double-clicking the desired image in the Library, open it on the workspace. Or drag the desired image in the Library to the workspace (only when the workspace is displayed).



Clicking [Show/Hide Library] in the workspace displays two screens.

Categorizing & Library Management

As your library continues to grow with additional content, you may find it convenient to customize your library with new folders and sort images according to your liking.

As new Untitled Folders are created, you may immediately name your folder to the desired name.

Once your new folder has been created, you may drag and drop images into the folder. Right-clicking on a folder will allow you to create a new sub-folder for that selected folder, delete the folder (along with all contained content), or rename the folder.

In addition to customizing folders, you may also adjust any of your images within the library. Right-clicking on an image will allow you to delete the image, re-name the image, sort the images in the current folder, or show/hide the images properties. Image properties will provide you with the image's description (as downloaded from the Design Store) and display any associated keywords.

As images or folders are deleted, they will be moved into the library's Recycle Bin. You may still restore any of these images or folders by dragging them back into your library. However, once you have deleted any content from your Recycle Bin, this content will be permanently deleted from your computer.

Silhouette Design Store

The Silhouette Design Store provides additional downloadable content from not only Silhouette, but also a variety of independent artists and contributing companies.

The Store is accessible at any time, 24 hours a day, 7 days a week.

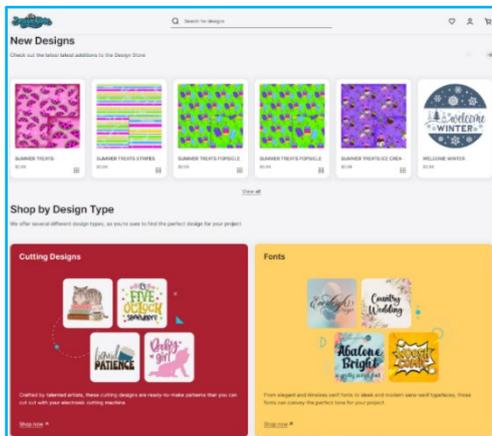
While images may be purchased individually to customize your library experience, subscription options are also available for a monthly fee. Further information on subscriptions may be found in the Silhouette Design Store.

All images are provided with the following benefits:

- You may download images using any major credit card, through download cards, or by using subscription credits
- Indefinite usage (you do not have to be connected to the Internet to access once purchased)
- Recoverable (in case of computer crash or replacement)
- Resizable and customizable to your specifications (using Silhouette Studio® tools discussed in previous sections)

Logging into the Store

Upon accessing the Silhouette Design store, you will be brought to the store's homepage.



You may sign in, or sign up for an account if you do not already have one created, by clicking on the link in the upper right-hand corner noting that "You are not signed in". To create an account, you will need to provide your name, your email address (which will be your login name), and any desired password.

My Account Options

Once logged into your account, you will find a link in the upper right-hand corner called My Account which will provide you with tools to manage your account. You will have the following options:

My Account - This will allow you to alter your email and password.

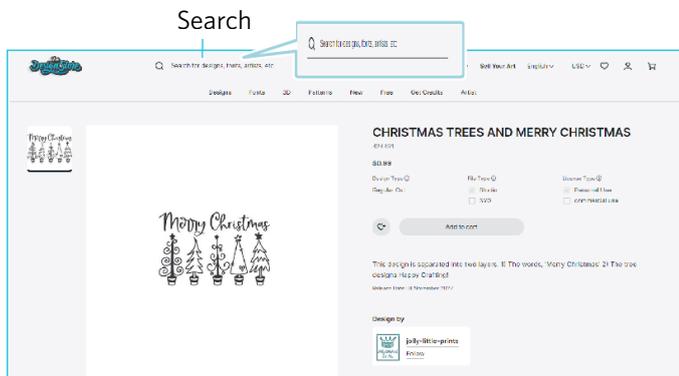
My Orders - This will allow you to view a copy of all orders placed.

Redeem a code - This is where you may enter any download card codes to apply the available balance onto your account.

Stored Cards - Allows you to manage any credit card information on file used to pay for subscriptions or individual purchases.

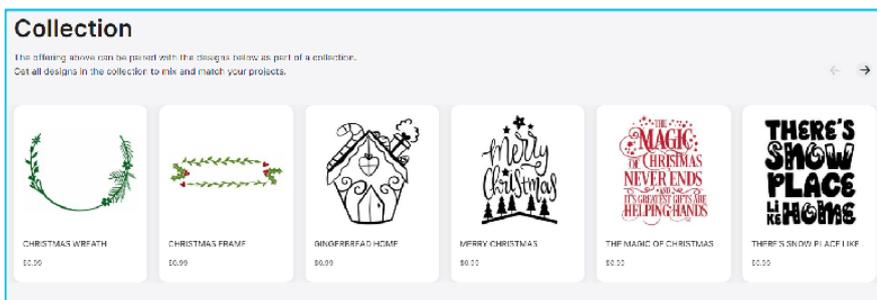
Shopping

You are free to browse all available Silhouette images without any obligation to purchase. You will find a navigation aide on the left-hand side of your shopping window. As categories are selected or as you search for images, you will also find related suggestions listed.



For specific images you are looking for, you may search for specific image names or terms in the upper. As you browse through the different themes and releases or make specific searches, once you find an image you would like to download, you may either add it to your cart by clicking on the add to cart option.

Below the design is a listing of similar or related shapes you may be interested in, as well.



Note that images that have already been purchased cannot be added to your cart.

Downloading



You may continue to browse and add additional images until you are ready to check out. Once you are ready, you may either click on the my cart link in your mini cart preview, or click on the cart icon in the upper right-hand corner of the shopping window.

When you are ready to download, simply click the Checkout button. Please enter the cart subtotal into "Apply Store Credit" and press the "Apply Credit" button. If you do not have a balance or your account balance does not cover the total of the images you are seeking to purchase, you will be prompted to either provide credit card information.

When the screen changes from the cart screen to the payment screen, you will be asked to log in to your account. The purchased design can be downloaded by clicking "Downloads."

You may then continue to navigate through the Design Store, or close it as desired. Once your images are all downloaded, you may then drag them from the recent download section and sort them as desired into any of your library folders. Downloaded images will remain in this Recent Downloads folder until sorted.

You will note that while all purchased images are stored in your library, purchased fonts will also be referenced in the library in a special "My Fonts" section. You may then either access these fonts purchased through the Design Store by double-clicking on these from the library, which will bring you to your workspace with a text cursor ready to place to type, or by access your fonts as previously discussed in section 5.

08 Saving



After you have created an image or document layout, you will have a variety of options to save your images.

Save

The Save option is the basic saving function to allow you to create a STUDIO file and save to any location on your computer. These files may be backed up on any removable memory device.

Save As

This option found in the File menu will allow you to name your image as it is saved. It is saved to any specified location on your computer and can be backed up to a removable or external memory device as desired.

Save Selection

This option found in the File menu will save a STUDIO file of only the actively selected images from your document. It is saved to any specified location on your computer and can be backed up to a removable or external memory device as desired.

Save to Library

This option found in the File menu will save your file into the Library in Silhouette Studio®. Upon saving images to your Library, they will be added to a section labeled User Designs in the Library. These images cannot be navigated to on your computer for manually backing them up, so it is highly recommended to also save a copy of any images using the regular Save option.

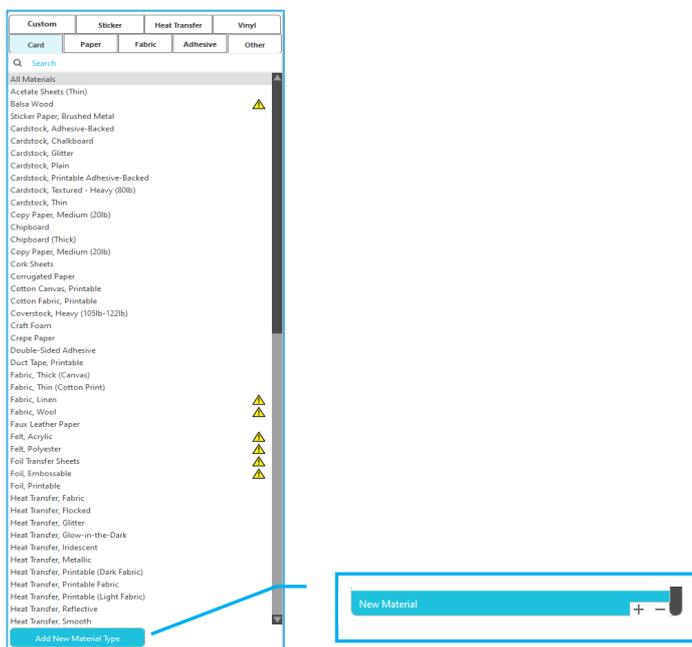
09 Cutting/Sketching

Send

Once you have all desired images and/or text on your workspace ready to cut or sketch, you may select the Send tab.

Material

In the Material menu, you will be provided with a list of common materials that can be cut with the Silhouette as well as all specialty materials offered from Silhouette. Click on a material from the list to select it.



You may add User Defined media types into this list by clicking on the plus sign in the media list, and likewise remove any unwanted material types by clicking on the minus sign.

When you select a material type from the list (or create your own), recommended cut settings will appear in the Action panel. If you need to adjust these settings for your specific material, you may do so. Your changes will be saved for future projects, so it is generally preferable to create custom settings rather than altering existing settings.

Action By: Simple

In Simple Cut Mode, all lines are scheduled to cut at the same time. Cut lines can be turned on or off individually, but cannot be sorted to cut in a specific order.



In Simple Cut Mode, you can adjust the Cut Style of individual lines in your project. When clicking on this option, your workspace will immediately emphasize all lines and their selected attributes for easy reference. To change a line's cut style, simply click on the desired image and then select the new desired line style from the list. The following line styles are available:

No Cut

This option will turn off the line from being sent to the Silhouette. While you will still be able to see it on your screen, it will be suppressed from being cut.

Cut

This option ensures the selected line will be cut regardless of where it is placed, whether overlapping or inside a larger image. Lines with this attribute will cut even if they are contained within other lines that are defined as "Cut Edge" or "Perforate Edge" line types.

Cut Edge

This option will cut the outer edge of any overlapping lines and will suppress any lines with the same attribute if they are contained inside a larger image. This option may be preferable for the creation of Print & Cut images.

Action By: Line Color, Fill Color, or Layer

You have the option to break up your project into multiple stages. This is especially handy if your project is designed to be cut in several colors or with projects that are to be sketched and then cut out. You can schedule cuts by line color, fill color, or by layer.

By Line Color

 All of the line colors present in your project will be visible in the cut menu. Based on line color, you can turn cut lines on or off, activate or deactivate auto-weld, and arrange a cutting order.

By Fill Color

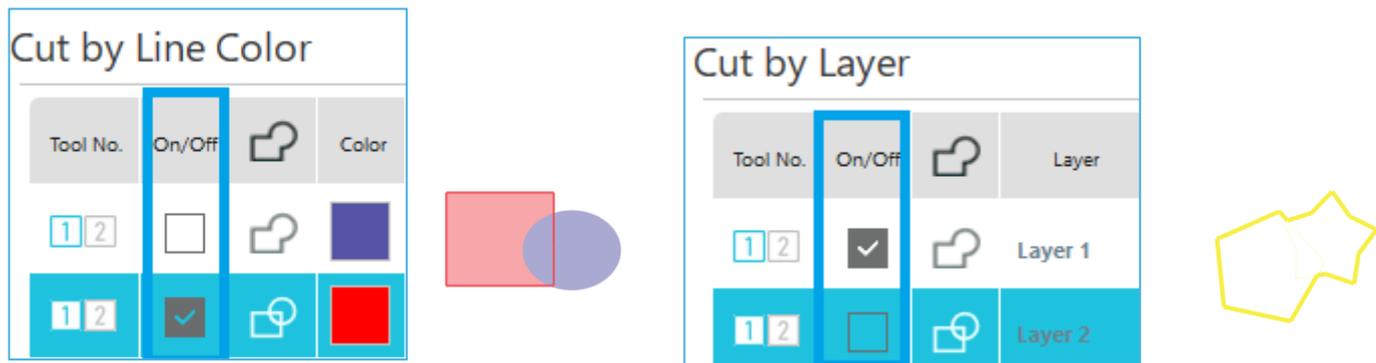
 All of the fill colors present in your project will be visible in the cut menu. Based on fill color, you can turn cut lines on or off, activate or deactivate auto-weld, and arrange a cutting order.

By Layer (paid version only)

 All of the layers present in your project will be visible in the cut menu. Based on the layers you've created, you can turn cut lines on or off, activate or deactivate auto-weld, and arrange a cutting order.

Turning cut lines on or off

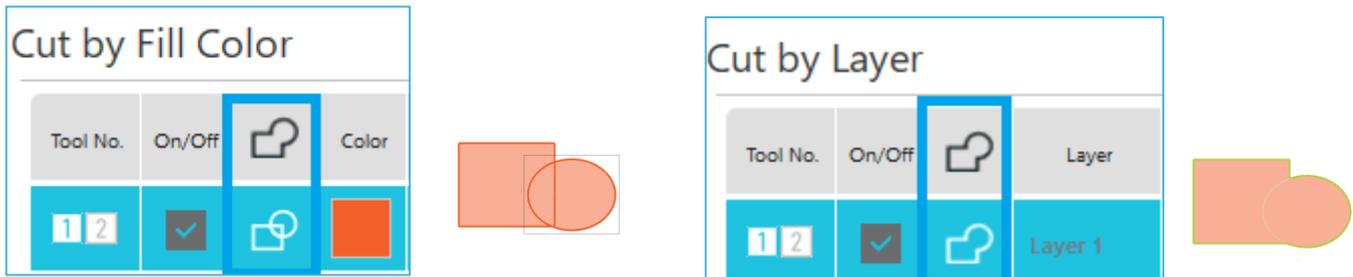
You can turn cut lines on or off by checking (or unchecking) the box next to the cut color or layer.



*The theme color is displayed in light mode.

Turning auto-weld on or off

You can turn auto-weld on or off by clicking the auto-weld box next to the cut color or layer. With auto-weld activated, overlapping shapes of the same color or layer will be welded together.

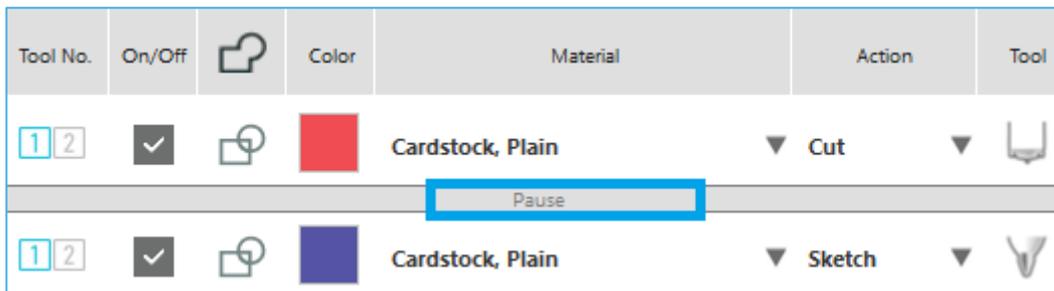


Arranging cutting order

To arrange the order that different colors or layers are cut, simply click and drag the desired color or layer to a higher or lower in position in the cut order.

Adding pauses

Pauses are especially helpful in sketch projects where it is necessary to change pens or blades between colors. To schedule a pause after a color or layer is finished, right-click (control-click on a Mac) the color or layer and select "add pause".



Configuring the cutting conditions

If you want to manually set the cutting conditions, set the blade depth, speed, force, and passes. First, set the speed to slow and the force to low, and if it is not enough, gradually increase the setting.

Blade Depth

Though the software and actual Silhouette unit will not know what blade level you are actually using, the recommendation will provide you with a visual cue on what blade setting should be used for the intended media based on the blade type for your cutting tool model.

Configure the setting so that the blade slightly protrudes from the medium in the thickness direction.

Speed

It is possible to set the cutting speed. To achieve the best results, slower speeds may be recommended for thicker materials or designs that are more intricate.

Force

Set the force according to the thickness of the medium to be cut. Thicker materials will likely require higher Thickness levels.

Passes

This checkbox is used to set the number of times to cut the design. Increase the number of passes when cutting thick or hard media.

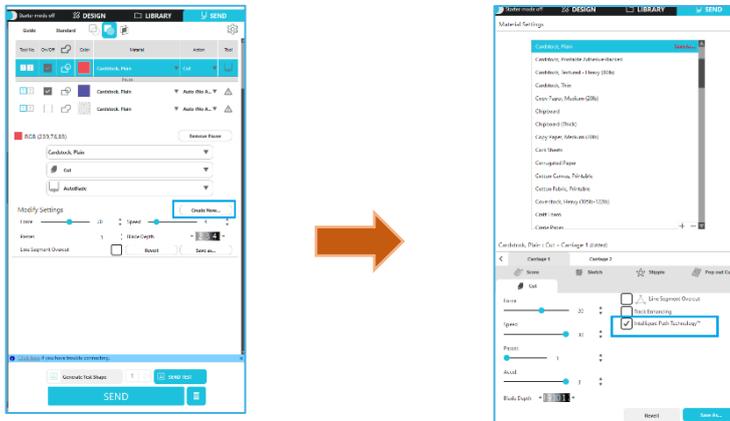
Track Enhancing

This check box notifies the program that you wish to enable the Track Enhancing feature, which will roll your material into the Silhouette and back out several times prior to cutting in order to create a track where the rollers are gripping the material in order to ensure the material stays on track during the cutting process. This option should only be used if it is already pre-selected for your material type or if you are having issues with a specific material type slipping during cutting and causing the resulting cuts to be misaligned. This can be used to select the Silhouette Studio® check box.

The default setting is 20.

Intelligent Path Technology

This allows users to prevent the media from shifting while cutting. There is tension in the material when cutting media (mainly paper) using the blade. If the media to be cut are not fixed firmly, depending on the cutting order, this tension may cause the media to shift or rip thin papers. This can be used to select the Silhouette Studio® check box.



Since paper shift is less likely to occur, users can stack and cut multiple sheets of paper or cut thin papers more beautifully than normally. For example, this function is effective for cutting multiple sheets for the following design.

Caution
The Intelligent Path Technology function is not guaranteed in all cases.

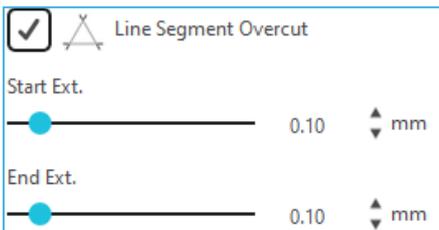
Additional information

In addition, this function is effective when cutting the following data.

- When cutting complicated designs
- When cutting sharp angles
- When the adhesive comes off easily, such as sealing materials

Line Segment Overcut

Once the material type is selected, the Line Segment Overcut option is displayed. Clicking each option can turn it on and off.



Selecting the "Off" option will have all lines cut normally. Selecting the "On" option will have all straight corners cut with a slight overcut. This option is beneficial for providing cleaner cutting results in the following conditions:

- Cutting thicker/denser material types (such as chipboard)
- Cutting smaller block fonts or sharp-edged images on various material types

The option will have no effect on rounded edges. It is only effective for images containing sharp edges in order to achieve the best cutting results possible under the conditions listed above.

Advanced Cut Setting

The Advanced Send menu offers several options for specialized cutting with your Silhouette.

Feed Options

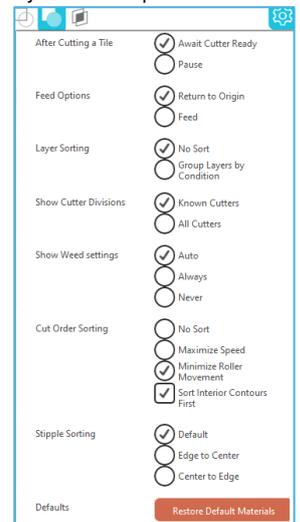
The Return to Origin option will simply return the material back to the original starting point after the job is completed. The Feed option will continue to feed the material forward beyond the original point of origin.

Layer Sorting

The No Sort option will retain your images as originally laid out while the Group Layers by Condition will sort your images according to any layers that exist in the document.

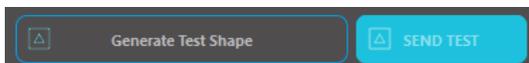
Cut Order Sorting

This series of options allows you to control the cutting order of your job. The No Sort option will not take any special order action and will simply cut your images according to their layout. The Maximize Speed option will set the cutting order to cut the job as quickly as possible. The Minimize Roller Movement option will cut the job according to the least amount of back and forth roller movement possible to aid in the cutting more delicate materials where decreased roller movement may be beneficial. The checkbox option for Sort Interior Contours First allows you to control whether the interiors of images will be cut first (checked), or if the interior is simply cut in line with all other portions of the image during the cutting process (un-checked).

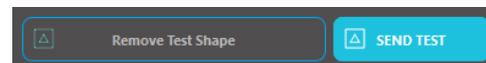


Test cut

When going to cut a new material type you have not previously cut, whether it be a pre-defined media-type setting or a new User Defined media type you are trying to find the correct settings for, it is advisable to perform a Test Cut in order to ensure your settings are correct and you will be able to obtain a clean quality cut for your intended job. You can access the Test Cut options in the Send menu.



Test cut creation



Test cut deletion

- 1 When the cutting condition setting has finished, click the [Generate Test Shape] button to create the test cut shape. *On the medium, it is possible to change the [Test Cut] arrangement. At this point, it is possible to delete a test cut by clicking the [Remove Test Shape] button.
- 2 Click the [SEND TEST] button. The test starts, and a shape consisting of combination of a rectangular and a triangle is drawn.
- 3 If cutting conditions, such as blade depth, force, and speed, cannot be cut properly, change the cutting conditions as required.

The Silhouette will then cut a small square with an embedded triangle so that you may gauge your results and determine if any settings need to be adjusted. You may continue to make further test cuts until results are to your satisfaction.

Additional information

Try readjusting the conditions and repeat the test-cutting until you find the optimum cutting conditions for the media you want to use.

Cutting / Sketching

Once you have selected the correct settings and are ready to send the design to your silhouette device, you will want to ensure your material has been loaded properly and that you have selected the correct blade setting for cutting, or that you have loaded a pen in the case you are sketching.

Performing the Cut

Once you have selected an appropriate cut setting and set a medium on a Silhouette cutting machine, you are ready to send the design to the Silhouette cutting machine. Now clicking the SEND button allows you to start the cutting.



Once the cutting has finished, it is possible to unload the cutting mat and material by pressing the medium ejection button.

10 Print & Cut

Silhouette Devices have the special ability to read printed jobs sent from Silhouette Studio® in order to cut the contour lines defined in your workspace as they outline print information.

In other words, you are able to print an image with filled color or effects to your regular home printer and then feed the printed sheet into the Silhouette to cut out around the printed image.

Registration Marks (Positional Alignment)

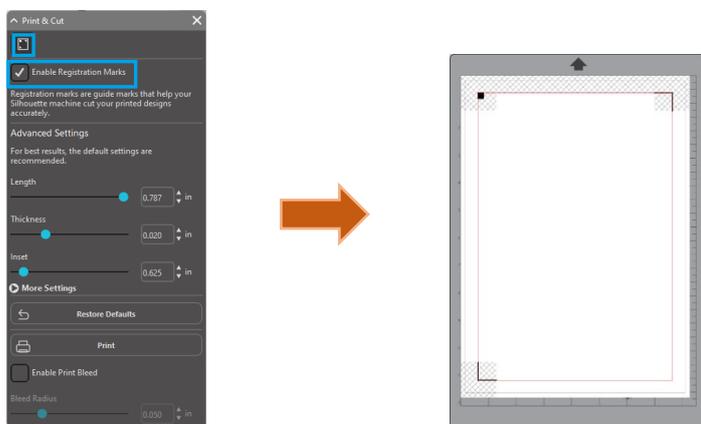
Silhouette Cutting Machines have an optic scanner for reading marks that can be printed by Silhouette Studio®. These marks are called registration marks. These marks will print around the border of your workspace and will be read by the Silhouette's optic scanner prior to cutting so that the Silhouette can triangulate according to where these marks are located and know exactly where the cut lines are defined around your printed images.

Create registration mark data



Print & Cut uses Registration Marks to get an accurate picture of the print Position and cut Position. This section explains the flow from creation of registration mark to printing & cutting when the Silhouette Studio® is used.

- 1 From the Panels menu, select the "Registration Marks", and you will be able to view the "Registration Marks" panel.
- 2 Check the "ON" to enable the registration marks.
- 3 Manually specify the registration mark line thickness, length or margin.



Caution

<How to add registration marks (alignment marks)>

- Do not place your design in the shaded area. It may cause registration mark scanning errors.



- If the registration marks are too small, the scanning may fail.
- Arrange the registration marks and then print them with the printer.

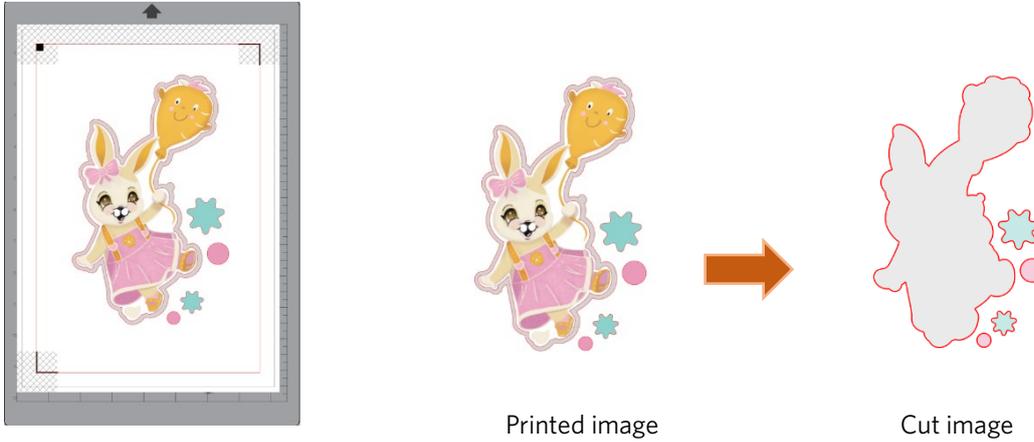
Print & Cut

With the registration marks displayed, you are ready to perform Print & Cut jobs. Again, this does not mean that the Silhouette will scan and cut around any print information. Rather the Silhouette is using the registration marks to know where your cut lines are defined around your printed image.

Create design data for printing and cutting

Your image must have lines around your printed image which are defined to be cut. Design the drawing pattern that you want to print and the contour to be cut.

- 1 Create the design to print for printing and cutting.
- 2 Create the contour cut lines to be cut for printing and cutting. It is recommended that the cut design is created on a color different from the print design.



Printing design data



When your job is ready, you may print it by accessing the Print option.

Caution

- Do not change the registration marks or design after printing. The cutting position will shift.
- If any objects are moved and the location of printed or cut information is altered, you will need to re-print your document.

- 1 Create a design.
- 2 Check the [Enable Registration Marks] check box on the Print & Cut panel and specify the registration mark thickness and length.
- 3 Print out the design data.

Cutting the printed medium.

This section explains how to cut a printed medium by using a Silhouette cutting machine.

- 1 Set a printed medium on a Silhouette machine.

Supplement

For how to set a medium, refer to the User's Manual for Silhouette cutting machine.

- 2 Send the printed design data to the [SEND] screen.
- 3 The cut line is displayed.
- 4 On the [Cut Settings] panel, select cutting conditions. When a medium to be used is selected, the optimum cutting conditions will be automatically applied.

If you have registration marks on your page in the design screen, your machine will know to detect them when you send your job to cut. The Silhouette's optic scanner will then locate the marks for you. Once all marks are successfully detected, the Silhouette will cut the defined lines around your printed image.

As previously noted, Silhouette Studio® allows you to fill any image with fill colors, gradients, and patterns. Though Silhouette does offer premade special Print & Cut images that are designed to only have print information inside and a cut edge around the outside of the image, literally any image can be turned into a Print & Cut image by using the tools provided in Silhouette Studio®.

11

PixScan



The PixScan™ feature requires the use of a PixScan™ mat (PixScan™ mat sold separately).

This feature allows for the use of images that are already printed which have not originated from the Silhouette Studio® software. The PixScan™ mat provides the ability to cut according to an image's actual size whether it be to provide a contour cut around the image, or to nest images into an oddly shaped material precisely, or to replicate a pattern at its original size.

Import from Scanner



When importing directly from a scanner, you may perform the following steps:

- 1 Place the intended printed image onto the PixScan™ mat which you wish to cut.

IMPORTANT

Ensure the image is within the mat's cutting area as shown by the black line border on the mat.



- 2 Click on the PixScan™ Icon in the Silhouette Studio® software.
- 3 Select the Import from Scanner section.
- 4 Place the image on the PixScan™ mat face down onto the scanner.
- 5 Select your scanner from the Source drop-down list and click on the Import PixScan™ Image from Scanner option.

IMPORTANT

- If the PixScan™ mat is larger than the scanner, you may scan in two passes.
- You will need to ensure that all markings on the mat are captured along with the actual image.
- If scanning in multiple passes, you do not need to worry if the scanned images overlap.
- The software will knit the images together properly.

Import from Camera

When importing an image from a camera or camera phone, you may perform the following steps:

- 1 Place the intended printed image onto the PixScan™ mat which you wish to cut.



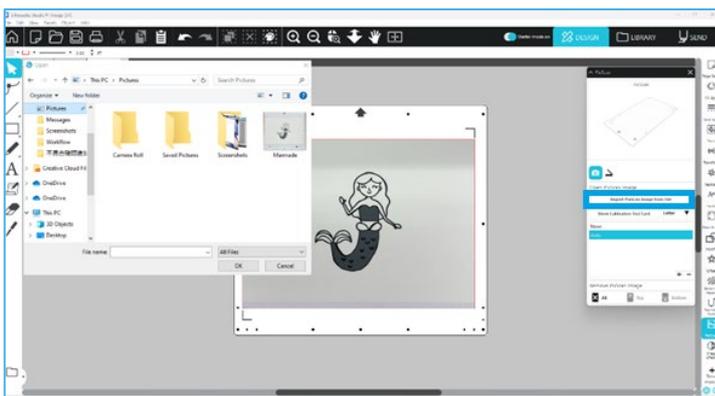
- 2 Take a picture of the image on the mat with your camera.

NOTE

For optimal results when photographing the PixScan™ mat, please ensure that:

- No zoom is used
- Lighting is even
- The entire mat is clearly visible in the image
- The PixScan mat is flat
- The cut media is contained within the black cut border

- 3 Transfer the image to your computer.
- 4 Click on the PixScan™ Icon in the Silhouette Studio® software.
- 5 Select the Import from File section.
- 6 A window will pop up for you to navigate to and select your image.
- 7 Click on Open once your image is selected.



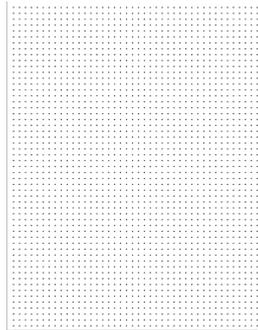
NOTE

If a calibration profile does not already exist for your model of camera, you will need to calibrate the PixScan™ feature. PixScan™ calibration is only necessary to perform once per camera.

Calibrating your Camera

The following steps may be performed to create a PixScan™ Camera Calibration profile:

- 1 Click on the PixScan™ Icon
- 2 Select the Camera Calibration section
- 3 Click on the Show Calibration Test Card option



- 4 Go to File > Print and print out the page

NOTE

It is okay if the entire page is not displayed or some of the dots are cut off.

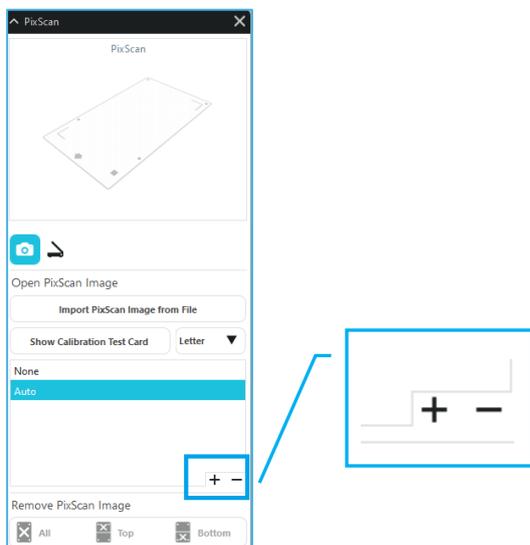
- 5 Take a picture of the printed calibration page from a bird's-eye view, ensuring that the calibration dots fill the entire image

NOTE

For optimal results when photographing the calibration image, please ensure that:

- No zoom is used
- The photo is clear and crisp
- The camera is parallel and in line with the calibration image
- Lighting is even
- The calibration image is resting on a flat surface
- Only the calibration dots are showing in the photo

- 6 Once you have your image saved on your computer, click on the plus (+) icon under the Camera Calibration section of the PixScan™ panel.



7 A window will pop up for you to navigate to and select your calibration image

8 Click on Open once your image is selected

Your PixScan™ calibration is now set up for the camera in use. Again, this process is only necessary any time a new camera is in use. You may select a PixScan™ Camera Calibration profile for any previously calibrated camera at any time depending on which camera is used to capture your image.

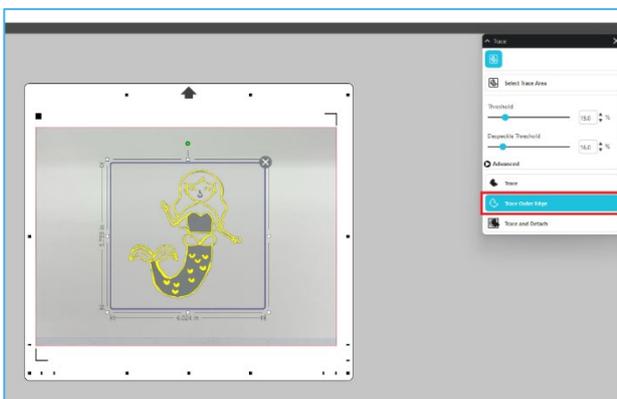
Cutting of PixScan Image

After loading a PixScan image, create your own cut line.

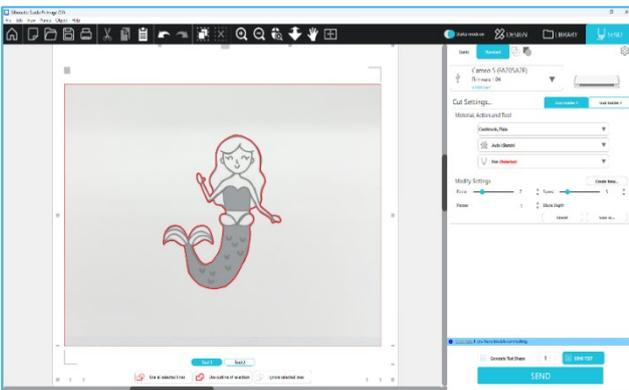
Creation of a cut line (trace)

Please see Tracing Options for further information on creating cut lines to associate around your image. You may find it preferable to add a small Internal Offset (e.g. 0.2 mm) after tracing in order to avoid white borders on traced PixScan™ images.

1 Send the data to the cutting machine.



2 Send the data to the cutting machine.



12 Specialty Tools

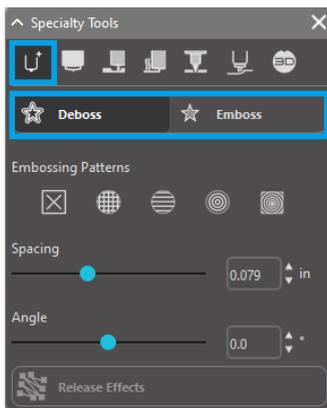
The Specialty Tools Panel can be set up your job to various tools according to media.

Specialty Tools

-  The Emboss/Deboss is capable of embossing when using the Embossing Mat.
-  Score & Emboss is a special action that will first lightly score around the edges of an image with a blade, and then will press slightly inside the score lines with an embossing tool. This makes a more dramatic deboss or emboss effect than the embossing tool alone.
-  Print & Emboss lets you print an image and then press down onto the back side of the printed surface with an embossing tool. The printed image is embossed with a raised effect, adding definition to the design.
-  Power Engraver allows you to engrave the surface of the material.
-  The Heat Pen can transfer foil onto media placed under transfer foil.
-  The Leather Punch can punch holes in leather and synthetic leather.
-  The Leather Carving Knife can create three-dimensional engravings on the surface of vegetable-tanned leather.
-  Send to 3D allows you to send your design created by Silhouette Studio to Silhouette 3D.

Emboss/Deboss

Embossing/debossing is made possible when using the embossing mat with an embossing tool.

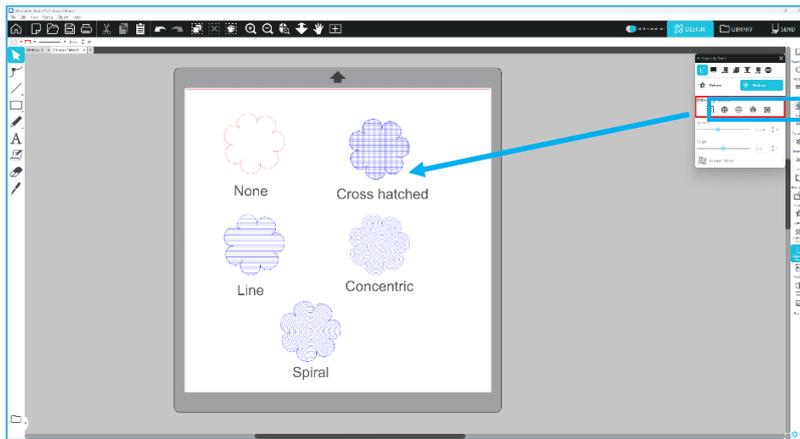


If no special effects from this panel are applied, the Silhouette Cutting Machine will simply emboss/deboss the outline of your image. The effects and options found in the Emboss/Deboss section provide additional options that may be desirable when using an embossing tool.

Embossing Pattern

An Effect can be selected to fill in any image with an embossing pattern. It is possible to select a pattern from None, Line, Concentric, Cross hatched, and Spiral.

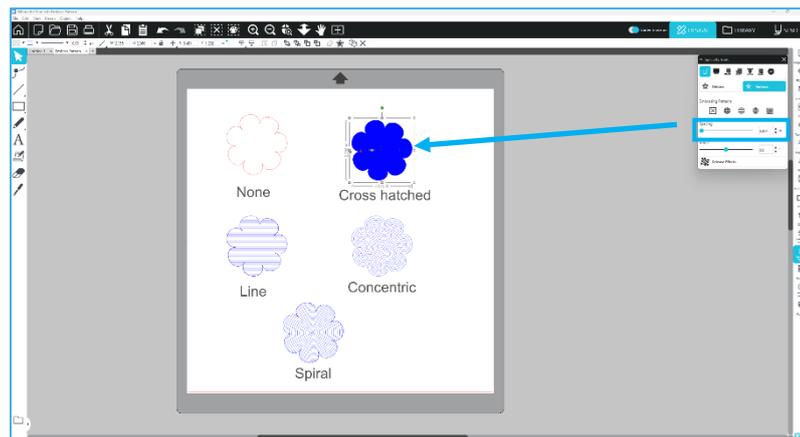
To apply an embossing Effect, select your image and then click on the desired Effect.



Spacing

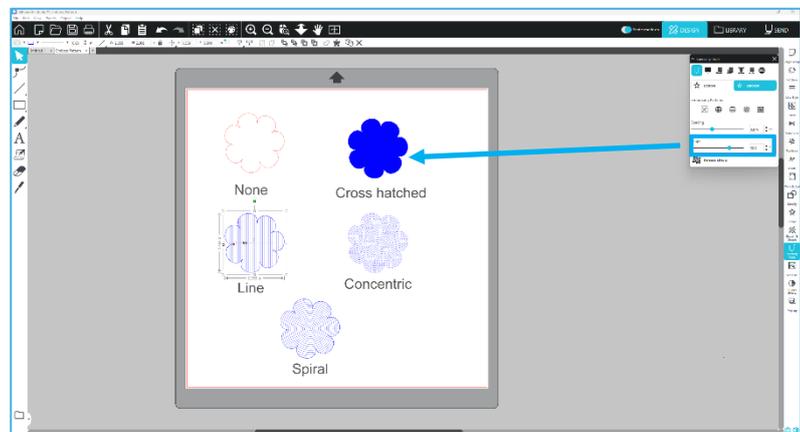
Spacing will control how compact or spread out the applied Effect will appear.

This increases and decreases the interval between the lines of a pattern. The heart in dark blue shows an interval of 0.004 inches.



Angle

This selects the angle at which the selected effect is applied. This changes the angle of a debossing or embossing pattern.



Cancel emboss pattern

The lines of an emboss pattern can be deleted. Once you are satisfied with the pattern, click the [Cancel Emboss] button. Even when the emboss/deboss pattern is canceled, it is possible to add a separate pattern onto an existing pattern. Once the emboss/deboss pattern is canceled, it is possible to add another pattern onto an existing pattern.

Score & Emboss

The score and emboss processing button is located on the second tab of the [Specialty Tools] panel. In score and emboss processing, a shallow cutting line is created with the auto blade, and then the embossing is deepened.

IMPORTANT

This feature is intended for use with Silhouette brand "Score & Emboss Paper". Silhouette cannot guarantee effective results when using other material types. All further instructions assume the use of Silhouette brand "Score & Emboss Paper".

Selecting the Tool

Choose either the Fine or Wide Embossing tool according to what you are using.



Fine Embossing tool is a 1 mm tip and designated by a light blue top.
Wide Embossing tool is a 3 mm tip and designated by a darker blue top.

Passes

Select the number of tool passes from 1 to 10.

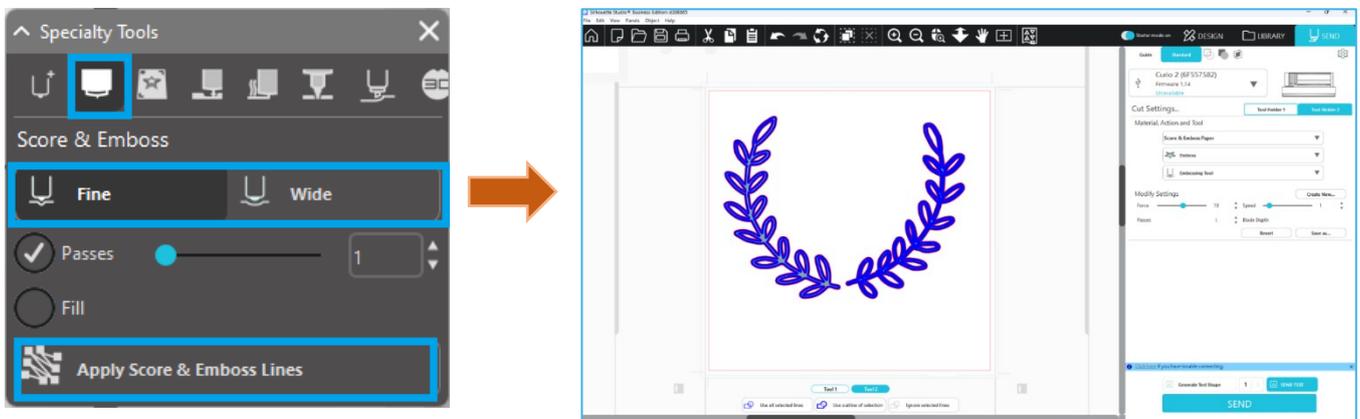
Fill

When the Fill check box is checked, filling is added to the selected object.

Score and Emboss Lines

When you select this, red cut lines and blue emboss lines are applied to the selected shape or text.

Tool Holder 1 makes the red cut lines with the auto blade mounted, and Tool Holder 2 makes the blue emboss lines with the emboss tool mounted.



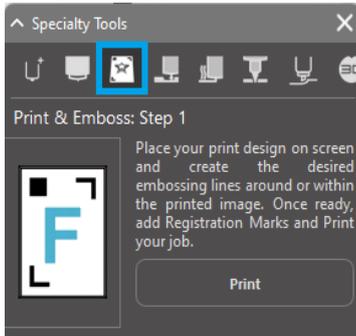
Print & Emboss

The Print & Emboss option is very similar to the Print & Cut option, which uses registration marks to provide proper alignment around a print image. Print & Emboss jobs allow you to print an image onto a material's surface and then press down onto the opposite side of the printed surface with an embossing tool. The resulting effect produces a printed image that is embossed. The emboss effect can either be around the edge or filled in according to the Emboss/Deboss options previously selected.

*This feature is limited to CURIO Series only.

Print

Begin by placing your print design on screen and create the desired embossing lines around or within the printed image.



Additional information

If using a Print & Cut image that already has a cut line created around the image and which also has surrounding white space, you can select the image and go to the Modify options to select Intersect. This will have all white space outside of the cut line contour trimmed. If you desire to assign an emboss fill type, you may then right-click Copy, and then right-click Paste In Front. The design can then be selected to apply any emboss fill type for use with the Print & Emboss feature.

You may then go to the Print & Emboss section in the Emboss tool panel and click on the "Print" button under Step 1. This will have your image sent to your printer with printed registration marks.

IMPORTANT

Please allow ample time for ink to dry prior to placing it onto the embossing mat. Ink that has not fully dried may transfer an imprint of the image onto the embossing mat surface. While this will not degrade or harm the mat, it may be undesirable. When cutting out registration marks, do not use the emboss mat. Failure to follow this instruction may damage the emboss mat.

Cut Registration marks

Place the printed image face-up on the Electrostatic Protection Sheet.

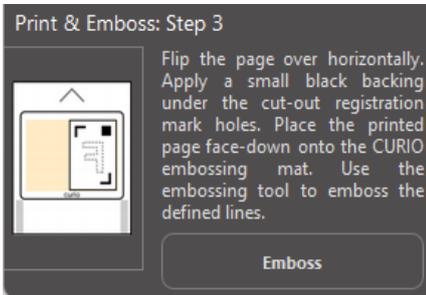
Insert an Autoblade to Tool Holder 1. Click on [Cut Registration marks] and cut out the registration marks.



Emboss

Remove the printed page with the cut-out registration marks from your CURIO series. Set an unprinted page with its blank side facing up and its upper right corner aligned with the embossing mat. Then, set three registration mark sheets below the cut registration marks, and set them so that the black registration sheets are visible from the front.

*The registration mark sheets are accessories for the embossing mat.



IMPORTANT

It is recommended to allow ample time for ink to dry prior to placing it face down onto the embossing mat. Some ink may transfer onto the embossing mat. However, it does not adversely affect the future use of the embossing mat.

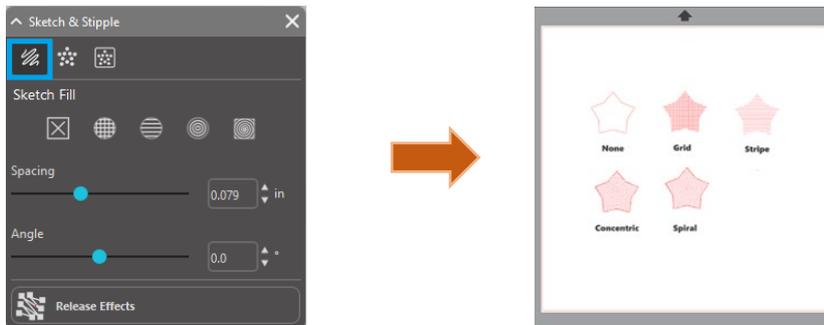
Insert the embossing tool to Tool Holder 2 and click the [Emboss] button mentioned in Step 3. The back of the page will be indented along the emboss lines so that a raised emboss effect will be visible when the page is viewed from the front.

Sketch & Stipple

When you click the sketch icon in the toolbar located at the upper part of the workspace, it is possible to create a sketch design. On the sketch menu, it is possible to adjust the sketch edge, fill type, and fill effect.

Sketch Fill

To apply the sketch effect, select an image and click the desired pattern.



Spacing

Spacing will control how compact or spread out the applied Effect will appear. Increase and decrease the grid interval between pattern lines.

Angle

The Angle option will control the applied angle of the selected Effect. Change the sketch angle.

Sketch Edge

Select a sketch edge pattern.

Cancel the sketch

The Spacing and Angle options are dynamic and will automatically adjust when images are resized or adjusted. However, if you wish to set these options to be static after they are created to your liking, you may click on the Release Emboss option.

Stipple

Stippling is the process of marking a material's surface with numerous small dots to make a pattern. The Silhouette devices provides the ability to create stipple points by either converting lines into stipple points, or by converting imported print images into stipple patterns.

Stipple

The Stipple section will allow you to convert lines into stipple patterns or to fill images with various stipple patterns.

Stipple Edge

To convert lines to stipple points, check the box for Stipple Edge under the Stipple menu.

Spacing

You may control the stipple point distance by adjusting the Spacing option.

Stipple Fill type

The selected line image will be filled with the desired pattern or shape. Only one Pattern or Shape option can be selected at a time. The following settings can be adjusted according to your Pattern or Shape selected:

Grid Spacing

Zooms the selected stipple Shape in or out.

Stipple Spacing

Controls stipple point spacing to either be closer together or spaced farther apart.

Angle

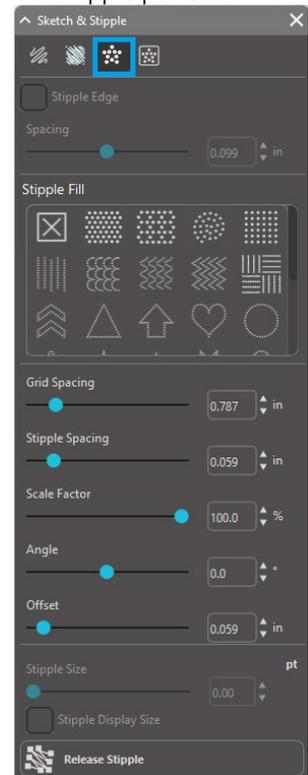
Controls the angle of the stipple fill.

Offset

Controls how close to or far from the edge of the filled shape the Stipple Fill will appear.

Stipple Size option

The Stipple Size option will adjust the display size of the stipple points on your screen. This does not control the actual resulting size of the created stipple point. This is for display purposes only. When the Print Stipple option is checked, your image can be sent to a printer in order to print out an image of the selected stipple settings.



Stipple Trace

The Stipple Trace section will allow you to convert imported raster images (such as JPG, PNG, and other supported bitmaps) into stipple patterns.

Once you have opened an external image you own you may click on the Select Stipple Area button.

This will allow you to draw a box around the intended area of your imported image in order to create a stipple pattern. This selected area once drawn may be adjusted or moved like any other object in the software as you may need to expand or refine the Stipple Trace area. The Stipple Trace area selection will provide a preview of the original image with a black-dotted image showing how the intended stipple points will be created.

After selecting all desired Stipple Options (as noted below) and your stipple pattern appears as you would like, you may click on the Create Stipple button to have the pattern created.

Stipple Style

Various stipple styles and settings can be adjusted to provide altering stipple effects.

Invert

The invert checkbox will have the contra-positive image traced.

Density

Generally, lighter regions of the drawing will be populated with fewer stipple points and darker regions are more densely populated. The darkness of any region is magnified by the Density setting which affects the population, or density of stipples rendered in that region.

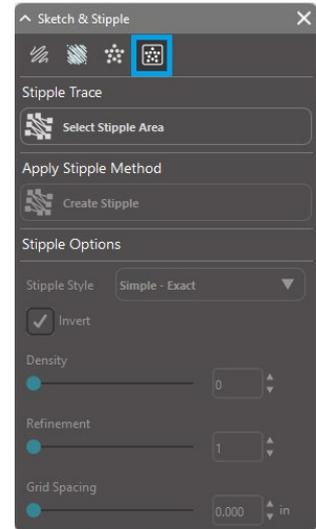
Refinement

Stipples are rendered at the points of a small invisible square grid, the spacing of which is defined by "Grid Spacing". Some Stipple

Style options allow this to be adjusted so that the stipple points appear at half, third, or quarter grid squares, thus higher values provide a more randomized display of stipple points which may have a more natural or less blocky appearance.

Grid Spacing

Specifies the distance between rows and columns of the square grid upon which the stipple points are positioned. Lower values provide a finer grid upon which the stipple points may be positioned.



Selecting the Stipple Tool

Whenever performing a stippling job, you will want to select the Stipple Tool for your material type under the Cut Settings panel.

To select the Stipple Tool, select your material type in the Cut Settings panel and then click on the tool type drop-down option. You can then scroll down to select the Stipple Tool. Once selected you will have two new tool setting options available.

While the action of Stippling is generally an up/down action, the Stipple Size option here will allow you to create a larger stipple point by dropping the tool and having the stipple point created in a circular motion, thus making the stipple point larger. The default setting of 0.00 mm will simply have the stipple point created at the tool's actual point diameter.

When using the Stipple Tool to stipple metal surface, such as the Silhouette brand Metal Stippling Sheets, you may check the Increased Stipple Force box in order to create a harder punched stipple point.

Multiple tool use

The Silhouette CAMEO Series and CURIO2 have two tool holders so that multiple tools can be used simultaneously. This means that you are able to perform two different actions during the same job, such as cut, emboss, etch, stipple, and sketch. When Silhouette CAMEO Series or CURIO2 is detected, Silhouette Studio® will provide an option in the Send panel to allow various line sets to be assigned to the different tool holders.

When in the Send Panel, you may select your desired object in your workspace and then click on the associated Tool holder option you want to use.

This will assign the selected line to be performed by the desired tool you have placed into the associated tool holder.



When in the Advanced Cut Mode, you can assign your lines to be performed by the desired tool holder by clicking onto the associated circle found under the Tool column. This can be performed according to Line Color or Fill Color or, if you are using the paid version, you may also set up your job for the various tools according to Layer.



<Cut by Line Color>

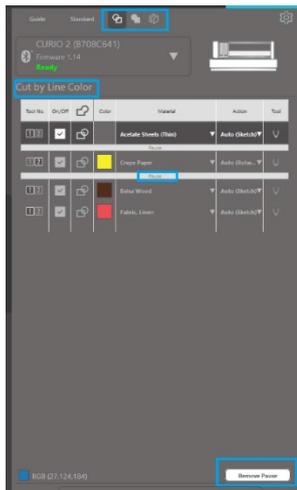


<Cut by Fill Color>



<Cut by Layer>

Clicking "1" on the left will have the selected row performed by Tool 1 on the left side of the cutting machine, whereas clicking "2" on the right will have the selected row performed by Tool 2 on the right side of the cutting machine.



If you have more than two tool types you wish to use within the same job, you can right-click to add a pause in order to stop the Silhouette Cutting Machine between actions and change out your tool as needed.

13 Design Edition Plus Features

Appliqué Embroidery

Silhouette Studio® Designer Edition Plus enables you to import appliqué embroidery files. If your embroidery file has a placement stitch layer, you can use it to cut out the appliqué shapes using your Silhouette cutting machine.

To do so, upload your embroidery file to Silhouette Studio®. You can import the following embroidery formats with Designer Edition Plus:

PES (Brother, Babylock, Deco, Singer)

DST (Tajima, Barudan, Toyota)

EXP (Stellar, Melco)

JEF (Janome)

XXX (Singer)

Open your file in the design screen. Delete the extra embroidery shapes so only the placement stitch line remains. Send your shape to your Silhouette and cut your shape out of your fabric. Now you have a perfectly cut appliqué.



<Design screen>



<Cut sending screen>



<Actual applique>

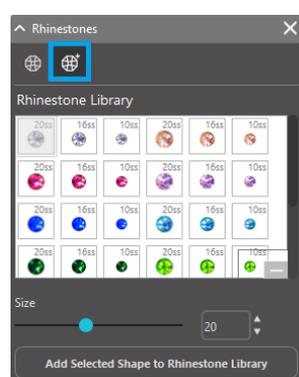
Sketching with Embroidery Files

You can convert embroidery designs to sketch artwork using Silhouette sketch pens.

Upload your file to Silhouette Studio®. Assign each layer a color. Send the image to your Silhouette with each colored layer corresponding to a colored sketch pen.



Advanced Rhinestones



Once you have your shape drawn or have placed the image of your custom rhinestone on the page, select the image. Then, click the 'Add Selected Shape to Rhinestone Library' button. This will add your shape to a section called 'User Rhinestones' underneath the preloaded stock rhinestones.

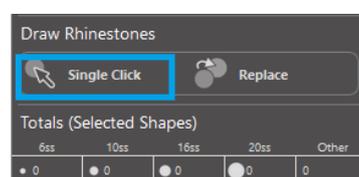
The rhinestone shape will remain in your library so you can use it for future projects.

Resize Rhinestones to Non-Standard Sizes

The size of circular rhinestones can be defined in 'ss' or in the dimensional units ('mm' or 'inches') set in your preferences settings. The width / height of non-circular rhinestones is defined in the dimensional units ('mm' or 'inches') set in your preferences settings. You can resize your custom rhinestones by clicking on the slider bars under your rhinestone library.

Placing Individual Rhinestones

To place individual rhinestones in your design, you can select the rhinestone you want and drag and drop it in place. Or you can select 'Single Click' from the advanced rhinestone menu. Otherwise, there are two options to place rhinestones in your design: single and multiple.

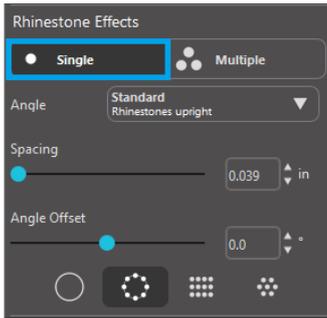


Single Click mode provides a rhinestone cursor in the draw area which places the currently selected rhinestone from the Rhinestone Library on the page, allowing you to quickly place a repeated rhinestone.

When you are in 'Multiple Rhinestones' mode, the Rhinestone Cursor rotates through the sequence of Rhinestones defined in your 'User Rhinestones' list, allowing sequences of different rhinestone types to be quickly placed.

Clicking the Rhinestone Cursor above a rhinestone which has already been placed in the draw area causes that rhinestone to be replaced by the new one, positioning the new rhinestone at the same center.

Placing Rhinestones as Outlines or Fills



You can create outlines or fills using either a single rhinestone style or a multiple rhinestone pattern.

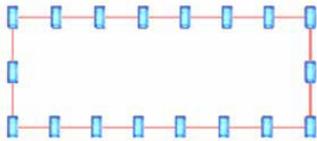
To use a single rhinestone style, you can select a single rhinestone and outline or fill your design with it. First, select your image. Next, under 'Rhinestone Mode' select 'Single'. Then, select which rhinestone you are using for your design.

There are three adjustment options: Angle, Spacing, and Angle Offset.

The following options are available in the drop down 'Angle menu':

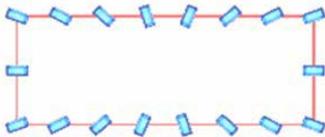
Standard

Rhinestones are oriented in a uniform direction.



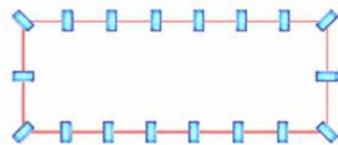
Center

Rhinestones are oriented to point toward the center of the boundary shape.



Perpendicular

Rhinestones are oriented perpendicular to the contour upon which they sit.



Spacing

'Spacing' adjusts how much space there is between each individual rhinestone.



Angle Offset

'Angle Offset' allows you to adjust the angle at which rhinestones are placed.



Hearts with no angle offset



Hearts with 45° angle offset

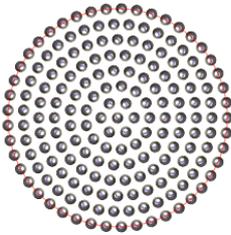
After you have selected your Angle, Spacing, and Angle Offset, click 'Apply to Edge'.

Fill Options

There are two options to fill your design.

Fill Interior Radial

'Fill Interior Radial' positions rhinestones on edge of the path and on concentric contours in the interior.



Fill Interior Linear

'Fill Interior Linear' positions rhinestones in a grid-like formation in the interior.



Multiple Rhinestones

Multiple Rhinestone Mode functions similarly to Single Rhinestone Mode except the outline or fill uses a multiple rhinestone pattern.

When in 'Multiple Rhinestones' mode, you can make a pattern of rhinestones for your design. To make a pattern, click on the rhinestone you want and drag it down to 'User Rhinestones'. Go back to your rhinestone library and click the next rhinestone you want and drag it down next to the first one. You can drag down as many rhinestones as you want to create your pattern. Each rhinestone will automatically be placed at the end of the pattern, but by clicking and dragging, you can rearrange them to create your desired look.



Total (All Shapes)

At the bottom of the Advanced Rhinestone menu is a total rhinestone count. It tracks how many rhinestones of each size you use in your design.

Totals (All Shapes)				
6ss	10ss	16ss	20ss	Other
0	12	0	14	9

14 Business Edition Features

Silhouette Studio® Business Edition has a few helpful tools to aid in the production of large, intricate, or batched projects.

Multi-Cutter Support

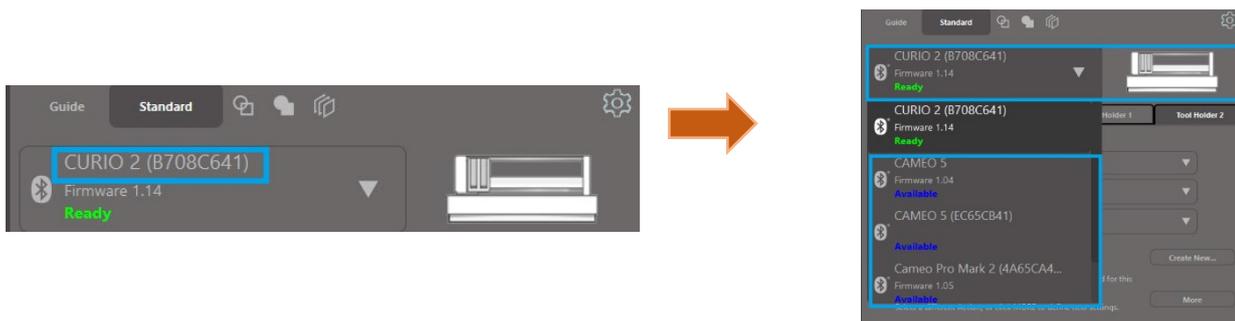
The Silhouette Studio® Business Edition provides multi-cutter support.

This means that when using the Business Edition, you are provided the ability to send cut jobs to multiple Silhouette cutting units at the same time as they are hooked up to your computer.

To utilize the ability to send jobs to multiple Silhouette units hooked up to the same computer, you may simply go to the Send panel and select which Silhouette unit you would like to send the job to and then press the Start button.

You can use this feature to cut the same job or different jobs for whichever document tab is selected and actively displayed as you opt to start the job.

The option to use multiple Silhouette units also provides the capability in the Business Edition to name your Silhouette units within the program. This is so you are able to determine which job is being sent to which unit. To rename a connected Silhouette, simply click on the Silhouette Cutting Machine model name in the Send to Silhouette Screen:



Once you click on the model name, you can type in any new desired name for the specific Silhouette unit. The name will be retained whenever using the computer that was used to create the name, even if the unit is unplugged and then later plugged back in. However, please note that the naming is specific to the computer in question.

The number of Silhouette units that can be simultaneously connected differs depending on the PC specifications and environment.

Ai/EPS/CDR file compatibility

The Silhouette Studio® Business Edition provides the ability to open Ai, EPS, and CDR files directly which have been created from other major vector imaging software programs (such as Adobe Illustrator® or CorelDraw®).

To access this feature in the Business Edition, go to the File menu and select Open. If on a PC, you will need to select the file type you are seeking to open and select the Ai, EPS, or CDR option.

You may either select to cut by layer and simply enable the desired layers, or opt to cut by line color and either enable the "no color" line to be cut or re-color your lines as desired using the Line Color tool.

You may alternately opt to use the Silhouette Connect™ program to cut these files from their native software programs.

Design View vs. Media Layout View

Silhouette Studio® Business Edition provides a different view option to enable users to view both the original Design View of how images are laid out from a design aspect and a Media Layout View of how lines are processed to actually appear in the resulting cut job.

While the traditional “what you see is what you get” Design View can be utilized and jobs processed in this manner when using the Business Edition, there is an additional option to change to the Media Layout View in order to maximize efficiency of laying out designs to be cut on specialty materials commonly used in business settings.

This side-by-side view capability provides access to further Business Edition features, such as Matrix Copy options, Media Layout Nesting, and Tiling.

Design View

Selecting this option will put the software into the traditional single pane view and have objects cut out as they have been placed in their original design.

Media Layout View



Selecting this option will provide a side-by-side view of your original layout (Design View on the left-hand side of the screen), and a view of the way your job will be processed to cut to your media, or material that is being cut (Media Layout View on the right-hand side of the screen).

Tiling Feature



The Silhouette Studio® Business Edition provides an automated Tiling feature. The Tiling feature provides a method by which a larger job can be cut from a series of smaller tiles which are then assembled after the cutting process is completed in order to create the larger scale job.

By example, the Tiling feature will allow the user to design a large scale image of 24 inches height by 24 inches width and cut it out in several passes. Even though such a material size cannot be cut in a single pass due to the Silhouette’s maximum cutting width limitation of 12 inches, the Tiling feature will automatically segment the job into a series of smaller jobs that can be cut out and then assembled to achieve the final 24 inch by 24 inch project.

The Tiling feature is available only when running the Business Edition version in the Media Layout mode.

While the original design can retain its original design layout, the Tiling option will provide a method to re-arrange the design to be cut in a series of multiple panels, thus allowing the target project which is larger than the media being used to be successfully created in a series of multiple smaller jobs.

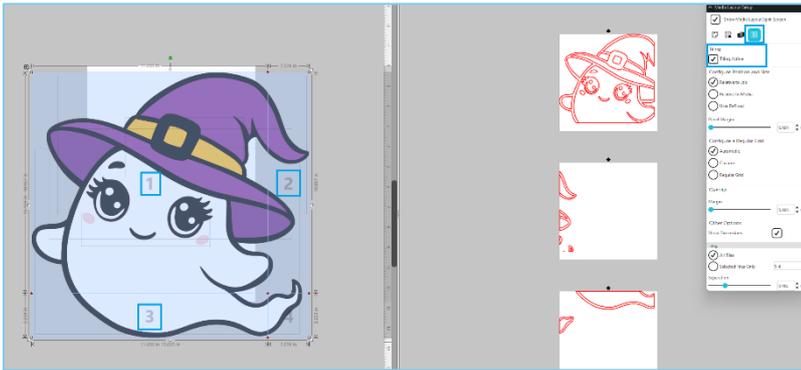
The following options are available in the Tiling panel:

Tiling Active

This option turns the feature on or off as desired. The option can be combined with other Business Edition features, such as Media Layout Nesting and Matrix Copy. (NOTE: This the processed design shown in the Media Layout View will only change to multiple panels if the image exceeds the available cutting area.)

When Tiling is active, the Design View will display a series of numbered tiles to display how the project will be split up into the resulting cut jobs.

These tiles can be controlled by the following further available tools found in the Tiling panel.



Configure Position and Size

The options found in this section will allow for the adjustment of the tile sizes and positioning for how the tiles will process the resulting cut job.

Maintain Aspect

This option will maintain the aspect ratio of the master tile.

Automatic

This option will resize the tiles to the size of the project being cut. The tiling division lines will be positioned automatically according to the defined media size.

Custom

This option will allow you to edit the tiles by dragging the division lines and nodes.

Regular Grid - This option will resize the tiles to maintain width and height dimensions for the individual tiles, rather than sizing them according to the media size specifically.

Margin

This option will create an overlap of the resulting cut, which may be useful as overlap in the final resulting job may be required.

Show Dimensions

This option toggles the tile sizes on and off.

All Tiles

This option will have all tiles selected to be cut.

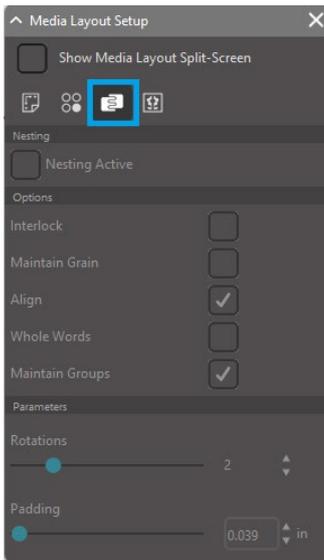
Selected Tiles Only

This option allows for selected tiles only to be cut. Alternately, you may click in the Design View on the tiles to toggle them on or off.

Separation

This option toggles the tile sizes on and off.

Automatic Nesting Preview



The Silhouette Studio® Business Edition provides an Automated Nesting preview mode where shapes are automatically nested within the Media Layout View to provide efficient usage of the material being cut, while maintaining the image's original positioning in the Design View thus allowing the user to continue editing and refining the design.

The Media Layout Nesting option is available only when running the Business Edition version in the Media Layout mode.

While the original design can retain its original design layout, the Media Layout Nesting option will provide a method to re-arrange the objects to be cut in a manner that makes the most effective use of your media.

The following options are available in the Media Layout Nesting panel:

Nesting Active

This option turns the feature on or off as desired. The option can be combined with other Business Edition features, such as Tiling and Matrix Copy.

Interlock Shapes

This option will nest concave shapes together in more efficient ways and attempt to interlock them to save more space on your media.

Maintain Grain

When enabled, the nesting feature is constrained to leave images unrotated, or to rotating only by 180 degrees. This may be useful when using specialty media that has a grain in order to ensure the grain runs in the desired direction for the resulting cut out images.

Align

When enabled and images are rotated to an irregular angle in the Design View, the Align option will make the image upright to compensate prior to determining the best angle to nest the shape into.

Whole Words

This option will keep letters from words together which have been created with the Text tool, instead of nesting each individual letter.

Maintain Groups

This option will keep any grouped images in their original grouping rather than nesting each individual object.

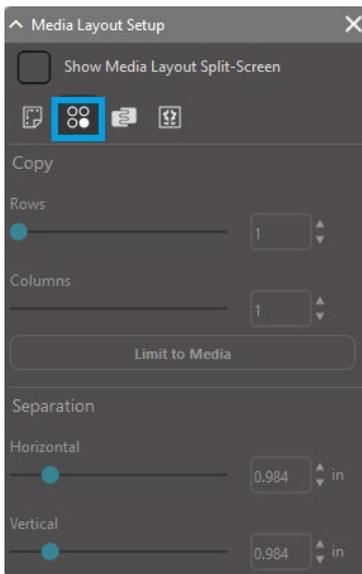
Rotations

The Rotations option will allow or restrict the level of angles you may allow the images to be rotated. For example, a Rotations setting of "0" will hold the images exactly in their original angle of rotation whereas a Rotations setting of "2" will allow rotations of 0° and 180° turns for the images. A Rotations setting of "4" will allow images to be rotated at angles of 0°, 90°, 180°, and 270°. As the Rotations setting is raised, the number of possible rotation angles for each image increases. The setting is present because while the highest setting may attempt to make the most effective use of space, there may be instances where the angle of images is important and it is more desirable to hold images in a certain angle.

Padding

This option controls the minimum distance between two adjacent shapes after they have been nested.

Matrix Copy Feature



The Silhouette Studio® Business Edition provides a Matrix Copy feature. This feature will provide the ability to create matrix of multiple copies of the same project that are replicated during the processing of the cut job but which do not actually alter or effect your original design.

The Copy feature is available only when running the Business Edition version in the Media Layout mode.

While the original design can retain its original design layout, the Copy panel options will provide a method to replicate the design to cut multiple copies as desired.

The following options are available in the Copy panel:

Rows

This option will provide multiple rows of the job as defined.

Columns

This option will provide multiple columns of the job as defined.

Limit to Media

Pressing this button will take the specified numbers for the rows and columns entered and remove any which exceed the allowed size of your media size.

Separation

The Horizontal option determines the horizontal spacing between copies while the Vertical option determines the vertical spacing between copies.

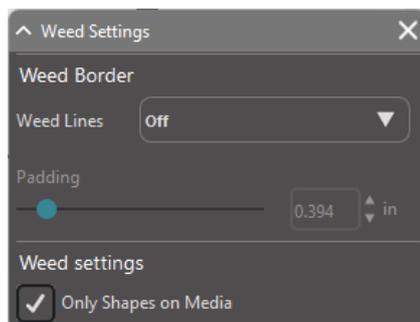
Automated Weed Line Feature



The Silhouette Studio® Business Edition provides a Weed Settings tool. This feature provides the option to create weed lines within open line paths for easier weeding of materials such as vinyl and heat transfer.

Options include a surrounding weed line border as well as internal weed lines inside the design's open spaces (such as within letters) to provide an easy method of removing excess material after the completion of the cut job.

The Weed Settings panel can be found when running the Business Edition in the upper right-hand side of the screen.



The following options are available in the Weed Settings panel:

Show Weed Border

This option enables an automated weed border to be created around the entire cut job.

Padding

The option will adjust the padding dimension to add or remove spacing between the border and the included weed border.

Weed Lines

The Weed Lines option provides an option to include internal weed lines, as they may be possible to include for the image. All weed borders and internal weed lines are automated and adjusted on the fly as adjustments are made to the placement or sizing of objects placed on your workspace. All weed borders and lines are displayed in blue.



15 Troubleshooting

If you experience problems, a list of common trouble-shooting tips and further support information may be found below.

Common Troubleshooting Tips

<https://silhouetteamerica.freshdesk.com/support/home>

Calibration

Calibration of the tool is only required for adjustment of the cutting alignment as it relates to Print & Cut jobs and the alignment of cuts as they relate to printed information. This should only be performed if you specifically experience concerns with your cut lines not aligning with the contour of printed images during Print & Cut jobs that use registration marks. These options may be found by right-clicking the name of the device you connect in the Send tab and selecting Calibration.

For this operation, it is recommended to use a sketch pen in order to more clearly view the results and make adjustments accordingly.

To start, you will first need to select to Print the Calibration Test Page in order to print the test page to your home printer. Do not make any adjustments to the Calibration Test Page on your computer screen. Once printed, you will need to place the printed sheet onto your cutting mat as displayed on the screen.



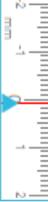
Once loaded, use the arrow buttons on the screen to align your blade so it is pointing to the first cross mark in the area that is represented in green on your computer screen, or in other words, the upper left corner of the first mark.

Once the blade is in position, click on the Calibrate option. This will engage the Silhouette to attempt to read the mark and sketch/cut along the cross lines accordingly.

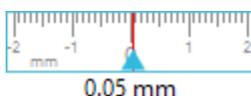
If either line is off, you will want to make adjustments according to the measurement of exactly how far above or below/how far to the left or right the resulting sketch or cut line was performed. To do this, measure the distance between the original printed mark and the actual performed mark.

If the performed horizontal mark is above or below the printed mark, you will need to adjust the vertical slider bar on screen according to the precise measurement observed between the printed and actual marks.

If the performed vertical mark is above or below the printed mark, you will need to adjust the horizontal slider bar on screen according to the precise measurement observed between the printed and actual marks.

 You may then repeat this action as needed by again using the arrow buttons on screen to align with the green area as noted on screen with the next cross mark, click the Calibrate button, then observe results and continue to make corrections as needed until the actual marks performed align with the printed marks.

Distance Adjustment tool can be found by right-clicking anywhere in the Send panel and selecting Distance Adjustment. This should only be used if noted that the measurement of your image noted on screen differs from the actual exact measured size. Necessary adjustments should be exceptionally rare.



To use this tool, select to Print the Calibration Test Page to your home printer and place the printed sheet onto your cutting mat as displayed on the screen. You will need to select the Load w/ Carrier option on the unit when using the Silhouette SD

model or Load Cutting Mat option when using the Cameo model. Once loaded, click on the option to Cut the Distance Adjustment Test Lines.

There will be two lines cut at positions 1 and 2 as labeled on your page. You will then need to measure the exact distance between the two lines and adjust the horizontal slider bar for under the Distance Adjustment section to match the exact measurement made. Once the measurement has been adjusted, the distance correction will be in effect. You may close the Calibration screen and continue to cut as desired. Additional test results are not necessary as further resulting test cuts will yield the same results on the test page and fall in line with the new adjusted number. You should only perform this test once.

Further Support Contact Information

Further support information may be obtained through the following sources:

Web: www.silhouetteamerica.com

Email: support@silhouetteamerica.com

Specifications are subject to change without notice.

Silhouette Studio 5.0 User's Manual
MANUAL NO. SS-UM-101
December 1, 2024 1st edition-01
www.silhouetteamerica.com
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618 N 2000 W Lindon, UT 84042

