

STENCIL AND VINY CUTTING MADE EASY

File Edit View Format Shape Layout Help	
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User's Manual

Compatible with Windows XP - Windows 10

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CutEngrave by BREN, Inc.

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System Requirements Computer; Personal Computer (PC), running Windows XP, 7, 8, 8.1 and Windows 10.

Overview of BREN CutEngrave

A program for Cutting Stencils, Signs, Lettering and Masking using a BREN Dragging Knife Cutter, including; 500 and 600 Pro-Series and 700 Razor Series Models. A program for Engraving, Scribing, Routing and Cutting using a BREN Rotary Engraver, including; PNC, NC, CAMM, Rota-Pro and Razor models.

Main Features

Supports BREN Stencil Fonts plus TrueType® Fonts, which can be cut in Outline. Text can be entered directly and positioned on-screen. Size, both width and height, spacing between characters, kerning, between lines and slant with Alignment tools for Left, Center, Right and Full justify. True WYSIWYG display based on material width and length.

Import Text files with comma or tab separated values from database or spreadsheet into "text boxes"

Import Images (1) from a TWAIN-compliant image scanner or (2) saved as an image file in bitmap (BMP) format. Image contours can be extracted and converted into line segments for editing. Register a converted graphic image as a symbol for easy recall and use.

Create multiple formats, with the same design on the visible cutting area automatically by specifying the spacing between formats. A single master format can be reproduced multiple times or you can divide a single format.

Produce incrementing numbers automatically.

Make "Stroke Characters", from TrueType® Fonts or your own graphics to speed Engraving or Scribing.

Draw simple shapes, Rectangle, Rounded Corner Rectangle, Circle, Ellipse, Star, Polygon (polylines), and other graphic shapes using click-on tools.

Position with precision using the "Snap-to-Grid" feature. Grid is fully adjustable, Lines or Dots.

Save Layouts, Designs, Templates and Plates using common windows file naming conventions.

Starting the Software (Note: The Software must first be installed on your computer.) 1. Click [Start], [Programs], [CutEngrave] (the CutEngrave Main Screen will open)

The CutEngrave Main Screen

The opening screen showing tools and features.



Introduction

4" (101.6mm) HIS IS MY FIRST STENCIL

Step by step explanation to produce the example Stencil shown below;

You must first set the size of material, (both width and length) that is loaded in the machine. This size is displayed to you as a white rectangle on the screen. You will place text, graphics and cut borders on this white rectangle. In order for your on-screen layout to match the actual cut results, it is necessary that you enter the actual cuttable size you will be working with.

The Actual Cutting dimension across the width of the material is determined by your placement of the Pressure Rollers. Your machine will <u>ONLY CUT</u> between the pressure rollers. *SEE the cutter manual for a detailed description of loading material and positioning the pressure rollers.*

Procedure for Windows 95/98/ME

- 1. From the [File] menu, click [Print Setup...]. The [Print Setup] dialog box is displayed.
- 2. At <u>N</u>ame: click the down arrow and select the BREN model. This will set the driver.

Printer		
Name:	Pro-Series	Propertie
Status:	Ready	
Type:	Pro-Series	
Where:	LPT1:	

3. Click [Properties] button to open the driver properties windows.

Step 1: Enter the working size and Orientation (Portrait or Landscape)

4. Enter the available cutting area as a Width (this is material width less allowance for pressure rollers) and a Length (this is distance along the length of the roll that will be required for your layout). You may use Metric or English units by clicking on the [units] selection. All numbers must begin with a whole number (0 thru 9) and be in decimal format, so enter ½ as 0.5, not as .5

NOTE: The Length you enter will be one of the page dimensions on the screen and what the machine will advance when the cut is complete. You can go back and change the length after creating your layout, when you can see just how much length you will need.

For this example, enter a Width of 4 inches (101.6 mm) and a Length of 12 inches (304.8 mm).

- 5. At Image Orientation, click on Landscape. This sets the Cut Orientation so that the long direction of the stencil will be along the long dimension of the material roll.
- 6. Use the drop-down to set Resolution to [High]. This sends the most accurate data out to the cutter.
- 7. Click [OK]. The driver property window closes
- 8. Click [OK]. The [Print Setup] dialog box closes. You should be at the CutEngrave Main Screen.

Procedure for Windows NT4.0/2000/XP

Set the size of the work area by selecting a registered page size. If the size you need is not displayed in step three below, you will first need to register the new size as a page. You MUST be logged onto the computer as a member of the [Administrators Group]. If you will not be at the Administrator level, you will need to have someone from this group create and save the page sizes you will need.

- 1. From the [File] menu, click [Print Setup...]. The [Printer Setup] dialog box is displayed.
- 2. At [Printer], click [Name], then choose the driver to be used for the BREN device.



At [Paper], click [Size] and select from the displayed sizes or use the following procedure to create and register the new size you need.
 If using Windows XP/2000, go to the [Layout] tab and click [Advanced]

3a. If using Windows XP/2000, go to the [Layout] tab and click [Advanced]

If using Windows NT 4.0, click the [Advanced] tab.

3b. Windows XP/2000, click [WorkSizeSettings], then click [Properties]. Windows NT 4.0, go to [Document Options] and click [WorkSizeSetings], then click the [Work Size Settings] button. The [Work Size Settings] dialog box apears.

3c. Click [Add New Work Size]. Enter the cutting size required, in this example enter 4 inch (101.6 mm) Width and 12 inch (304.8 mm) Length. In the [Work Size Name] window, enter a name for the new page size. In our example you could use 4X12 to indicate the dimensions. Enter only alphanumeric characters for a name, don't use punctuation marks or symbols for the name.

- 4. Click [OK] to close driver properties.
- 5. Click [OK] to close the [Print Setup] dialog box.
- 6. You should be at the **CutEngrave** Main Screen

Step 2: Cutting Conditions controlled from the software

Cutting conditions include [Orientation], (Portrait or Landscape), [Resolution], (Normal or High) and [Speed], expressed as cm/sec. These conditions are normally controlled from the software and not from the cutting machine control panel.

- 1. Click [File], then [Printer Setup], then [Properties]. The driver properties is displayed.
- 2. From the drop down windows click on and select the required settings for [Orientation], [Resolution] and [Speed]. Click [OK] when you are finished and close the [Printer Setup] dialog.



3. You should be back to the **CutEngrave** Main Screen and looking at the Lower Left corner of the new page.

Step 3: Entering the text

You will now place text on the screen positioned for cutting in the size and font you require. We will input three lines as shown in the example, set the Font, Size and Positioning using the Text Tools.

1. Point the mouse to the **A** button across the top of your screen. The mouse pointer changes to the cursor for the text-editing tool

2. Bring the cursor down onto the white page and locate near the upper left corner of the white page. Click once and this will become the text starting point.

3. Type the following from the keyboard; "THIS IS MY" [press Enter], type "FIRST" [press Enter], type "STENCIL" and stop. Note: Do not type the quotation marks just the characters and type in all capitol letters as most stencils will use only upper case letters. Only a few stencil fonts contain lower case letters.

- 4. Change to the Select tool by clicking on the button.
- 4. From the [Format] menu, click [Font...]. The [Font select] dialog box is displayed.

6. Scroll down the alphabetical list to the Stencil fonts and click on one to select. Pick STENCIL1 for our example, then click [OK] to close.

	Font Select
♥ example1 - CutEngrave ile Edit View Format Shape Layout Help □ ☞ ■ 挫 よ 凾 館 ▶ 床 ♀ A □ ○ ○ ☆ ^^ ▲ □ ◎ ◎ □	Stencil OK Stencil Cancel StencilSC1 StencilSans StencilSans Extrabol
THIS IS	
FIRST	Cut Ctrl+X Copy Ctrl+C Delete Del Make Stroke Edit Stroke
	Properties Alt+Enter Move to Front Shift+PgUp Move to Back Shift+PgDn Align Move Shape Mirror Mirror
	Convert to Polygon Add Symbol

- 7. With the text still highlighted, (highlighting is indicated by the item being blue on a white background with corner and side grab points shown), go to the [Format] menu, click [Properties]. Set the character height by typing in the size required. Note the ability to select whether the size is for upper case or includes the decenders for lower case. For our example enter 0.75 making the characters ³/₄" high. Click [OK] to close the Text dialog.
- 8. The [Text String Properties] dialog box allows you to adjust; Size, (both Width and Height) Aspect, (maintains the correct proportion when either the Width or Height is entered) Rotation Angle, Slant, Space between Characters and Space between Lines Justification as Left, Center, Right or Full Horizontal direction or Vertical direction, along with Boldness and Color.
- 9. Text may be positioned and sized using the mouse and the (■) points around the text string. Side points...
 Increase or decrease the Width Top and Bottom points...
 Increase the Height Corner points scale both width and height ■

If you click a second time on a text field the points change to circles (•) and small (•).

Circles are Rotate Handles, the text is rotated around a point.

The bottom small (■) changes the [Space Between Lines]

The right side sm**l**() changes the [Space Between Characters]

The small (■) in the upper left corner changes the [Slant] either to the right or left

To <u>move the entire text string</u> use the [Select Object] tool (\blacktriangleright). Click on the body of a character, while continuing to hold the mouse button down, "drag" the text string by moving the mouse. To select the string or field, you may "Point with the select object tool and click", "Point outside the string, click and drag a bounding box around the item" or from the [Edit] menu select all.

With the text highlighted and the [Text String Properties] window open, click on the Center button (=) to center justify the lines of text.



Step 4: Drawing

You can add graphics to your design by using the "drawing tools" provided. In the example we will draw a box around the text that will be cut out as the outer border of our stencil. You can draw Rectangles, Rounded Corner Rectangles, Circles, Ellipses, Stars and Polygons.

- 1. Click the \Box button. The mouse pointer changes from to the shape-drawing tool ().
- 2. Locate the pointer above and to the left of the text string. Click and "drag" the pointer down and to the right completely enclosing the text in the box and end with the pointer below and to the right of the text. This Box will be seen as a cuttable item when the stencil is transmitted to your cutter. The exact size can be specified by first highlighting the box then {Right Clicking} the mouse and selecting [Properties] from the window that opens.

🦃 Ur	🔯 Untitled - Dr.Engrave	
File I	File Edit View Format Shape Layout Help	
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		¥⊷.
		an a
	<u>.</u>	
	End Point Release the	mouse button
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Cursor	Cursor pos. 8.229, 1.617 Object center 4.120, 3.664 Dimension 8.000, 4.000 Angle 0 Slant 0	
Ready	Ready	100% NUM

Step 5. Cutting a Stencil

Cutting is handled just like printing. You will send your finished layout out to the cutter by selecting [Print] either from the [File] menu or from the icon on the Tool Bar, (looks like a pointed tool down on a green sheet). When you point to this icon the pop-up label will say 'PRINT'.

1. From the [File] menu select Print Preview.



2. In [Print Preview] you will be shown a solid white background which represents the dimensions you entered in [Print Setup] with the layout you just finished positioned on the white background. You are viewing the material coming out of the cutter as if you were standing at the right end looking down on the machine, (material roll to your right, front of machine to your left). The Lower Left corner on the computer screen is the Lower Left corner of the material as it exits from the machine. The Stencil will cut exactly where it appears on the material on the screen of the computer.

The White area on screen is the working area and is determined by the dimensions entered in [Print Setup...]. If you do not allow enough working area, your images or text may not fit on the working area. If you allow too much, you may not see small details. The length entered in the driver for [Length] is the amount of material the cutter will advance when cutting is through. Only items, which are on the white work area will cut. Any item or part of an item hanging beyond the white boundary will not be cut.

The Print Preview Screen

The Preview screen gives you a chance to check that the stencil will fit on the material and confirm the location. You can print from the Print Preview screen by selecting [Print] from the names or you can close print preview and from [File] select [Print]. The [Print] dialog box will open allowing the chance to confirm that the correct device is selected and that you are ready to transmit the data for cutting.

Print. Next Page Prey Page I wo Page Zoom In Zoom Qut Qose	
THIS IS MY FIRST STENCIL	

The Print Window Opens

File Edit View Format Shape Layout Help	
	Print 🛛 😨 🔀
	Printer
н — П. — П	Name: Pro-Series Properties
U U U U	Status: Ready
	Where: LPT1:
	Comment: Print to file
	Print range Copies
<u> </u>	All Number of copies: 1 ÷
99	
	OK Cancel

Selecting [OK] will send the data out to the selected device. Name should be BREN device. If you have selected (highlighted) some portion of the layout, the Selection check dot will be available. If you wish to cut only a selected item, clicking on Selection will cut only the part(s) highlighted in the layout.

Step 5. Saving your work

From the [File] menu, select [Save AS...] the Save File Window will open and you can select where to place the new file and give it a name. Once a file has been saved it can be recalled for use at any time. If a file has been first saved, then is called up (Opened) and changes are made, you can re-save simply be selecting [Save} from the [File] menu or using the Ctrl + S keys. Depending on your version of the Windows operating system, you can use almost any combination of alphanumeric and other keys to name a file.



Use [Save] to save a file initially or to save an existing file with changes under the same name. Use [Save As...] to give an existing file a new name or to save the same name in a different location e.g. (on a floppy disk by saving to the $3\frac{1}{2}$ drive).

Using the Save icon on the tool bar



- Save button on the tool bar. The [Save As] dialog box appears 1. Click the
- 2. Specify where to save the file.
- 3. Enter the name to save as and click [Save]

Step 6: Import an image file

You can import an existing image file, extract the contours, (outline) and convert the data to lines. This section explains the steps to get and convert a file which has already been acquired (scanned in) with a scanner and saved in Windows bitmap format (.bmp) extension.

- 1. From the [File] menu, click [Import...]. The [Open] dialog box appears.
- 2. Click [Files of type] at the bottom of the window and select [Windows Bitmap File (*.bmp)].

.ook in: 🛛 🖾	Samples		- 4	- 🔁	Ċ	
e name:						Open

- 3. Use [Look in] to locate the file desired and once displayed in the large window, click the desired file and then click [Open]
- 4. The image is read into the preview screen and displayed. Check the contents and click [OK]. When importing a color image, outlining may not be what is desired, depending on the colors. In such cases, drag the [Adjust Image Density] slider to modify the image. Best results will be achieved when the image has been scanned as a sharp Black and White, properly "cleaned-up" with the scanning software or actually drawn with a graphics or cad program and saved as a "bitmap" in .bmp format.

Basic Operations for Objects

Selecting an Object

1. Click the 📐 s

select object button.

- 2. Move the mouse to point at the object to be selected and click once with the left mouse button.
- 3. The symbols and ▲ appear around the selected object. When an object is chosen pressing the [Tab] key selects a different object in order. To reverse a selection hold down the [Shift] key and press [Tab].



Selecting more than one object

-While holding down the [Shift] key, click on each object you wish to select. OR -Left Click and hold down the mouse key while "dragging" a box around the object(s) you want to select. (NOTE: an object must be fully enclosed by the drag box to be selected)

Canceling the selection of an object

1. Click the

select object button.

2. Move the pointer to an area other than the selected object and left click once.

Moving an object

- 1. Click the **k** select object button.
- 2. Point to the object using the mouse and left click to select.
- 3. While pointing inside the object left click and hold then "drag" the object to the new location. To move only horizontal or vertical, hold down the [Shift] key while dragging, moving only up and down or left and right. Objects may be positioned by selecting Snap to Grid or Snap to Object.

Changing the Size of an object

- 1. Click the **k** select object button.
- 2. Point at the object and left click one time to select it.

3. Change the size of the object by dragging the \blacksquare and \triangleright that appear around an object when it is selected. Note: As the cursor moves over a square or triangle the cursor will change to a crosshair.

Square points change both height and width. Triangle ints change the width or height. To maintain the aspect while changing size, hold down the [Shift] key while dragging a point.

Rotating an object

- 1. Click the select object button.
- 2. Click on the object to select it.

3. Click on the object a second time. The square and triangle points change to circles and a diamond. The circles are Rotate Points around which the object can be rotated.

Slanting an object (NOTE: Text Boxes cannot be slanted, Text Strings can.)

- 1. Click the select object button. R
- 2. Click on the object to select it.
- 3. Click on the object a second time to get the circles and diamond .
- 3. Drag the diamond left or right to slant the object.



For a Text String a "Slant bar" will appear on the left side. Drag the square in the upper left corner to slant the text string. The square on the right side will increase or decrease the space between characters.



Copying an object

- 1. Click the **R** select object button.
- 2. Point to and click to select the object to be coppied.
- Char copy button. OR From the [Edit] menu select [Copy] 3. Click the
- 4. Click the paste button or select [Paste] from the [Edit] menu.

The new object is copied overlapping the source object.

5. Point to the new object, Click and hold to "drag" the new object to the desired location.

Deleting an object

- 1. Click the **k** select object button.
- 2. Select the object to be deleted by pointing to then clicking.
- 3. From the [Edit] menu, click on [Delete] or press the [Delete] key on the keyboard.

Selecting a vertex (point) of a polygon (polyline object)

- 1. Click the **K** edit vertex button.
- 2. Point to and click on the polygon (polyline object)

3. Click on the point desired. The selected point change a square inside a border . After selecting a vertex, pressing the [Tab] key will select the next vertex. To reverse the selection order, hold down the [Shift] key while pressing [Tab].

Selecting multiple vertices of a polygon (polyline object)

- 1. Click the **K** edit vertex button.
- 2. Click on the polygon (polyline object).

3. Hold down the [Shift] key and click on each point \blacksquare you wish to select. <u>OR</u> Left click and "drag" a bounding box around the points you wish to select. Each selected point will change to a square within a border \blacksquare .



Selecting all vertices of a polygon (polyline object)

- 1. Click the **K** edit vertex button.
- 2. Point to and click on the polygon (polyline object)

3. While holding down the [Ctrl] key, click on one point \blacksquare . All vertices contained in the polygon (polyline object) will change to squares with borders \blacksquare and be selected.

Moving vertices of a polygon (polyline object)

- 1. Click the **T** edit vertex button.
- 2. Click on the polygon (polyline object)
- 3. Point to a vertex and click to select it, (square point changes to square with border
- 3. Click on the selected point(s) and hold the mouse button down to "drag" the point freely. Holding down the [Shift] key will allow the "drag" to be only up/down or left/right. You may also select a point or points and then use the up-down-left-right cursor control keys on the keyboard to make precise straight moves.

Adding a vertex to a polygon (polyline object)

- 1. Click the **K** edit vertex button.
- 2. Click on the polygon (polyline object).



3. Move the mouse pointer to a location on a line where you wish to insert a vertex and left click. A white square _____ appears where you have selected. From the [Shape] menu, click [Insert Vertex]. OR You may simply double-click the left mouse button to insert a new vertex.

Deleting a vertex of a polygon

- 1. Click the **K** edit vertex button
- 2. Click on the polygon (polyline object).

3. Click on the point to select it. The point changes to a square with a border . You may delete multiple vertices by selecting multiple vertices.

3. From the [Shape] menu, click [Delete Vertex] or press the [Delete] key on your keyboard.

About the Origin Point for Cutting

The following screen shows the Origin Point for CutEngrave. The location of the Origin Point is always at the Lower Left Corner of the page. This corresponds to the starting location of the cutter tool when the orientation is set to Landscape.



Arranging Designs (TEMPLATES) of the same size for Cutting at one time.

This section describes how to create and line up Designs of the same size, which may contain the same or different information, and cut them at one time.

In this example, a single Design measuring 2.4" x 1.5" (60 mm x 40 mm) is reproduced four times and lined up on a sheet size of 6" x 4" (150 mm x 100 mm). Each design contains the same Fixed information and an Sequential Serial Number. The procedure is described in three steps.

- Step 1: Make a Template file
- Step 2: Arrange the layout and enter the text

Step 3: Ready the cutter and send the cut command.



Step 1: Make a Template File

Create the data for a single design or plate and save it as a Template.

 From the [File] menu, click [New...]. The [New File] dialog box appears with the [Standard] tab open.

NEW	Preview
New File	
	C Document
	Template

2. Click on the [Template] selection dot, then click [OK].

3. The [Template Properties] dialog box appears.

Enter the size with "Y" being the Height and "X" being the Length. These dimensions will set the outer size or border of the template.

In this example, enter the values shown below. To enter values, double click in the white area or click and drag the cursor across the existing value to turn the value area blue, then type the new value, or click in the white area and Delete or Backspace to remove the old value and type the new. Pressing [Tab] will jump from the "Y" value to the "X" value.



4. Click on the text box button and draw a box as shown. This will be where you can put text.



5. You can now click inside the Text Box and type the text you want on your finished template. Do not type the Serial Number, this will be inserted automatically from the Text Box properties window. In the above example, we typed; MODEL 515 (pressed the Enter Key), typed SERIAL NO. (pressed Enter Key), then pressed the Right Mouse Button to open the Edit Text Box. In the edit Text Box near the lower right corner select the NUMBER check circle. This tells the program that you want to use a number which can increment by the value you type in the "Increment by" area. First select the Initial Value box and type the first number you want. Then select Increment by and insert the number you want to increase by.



NOTE: For NUMBER values do not type the number in the Text Box. The number you type as the Initial Value will be inserted in the first location and each successive location will increase by the number you type at Increase. Click on OK to close the properties window. You will now see the template as it will cut.

Nodel 515 Serial No.	
001001001	

This is the Template with the first serial number in place.

We next need to create the outline around the information which will become the outside cut lines of the finished template. In our example the text will be cut as shown but until we place an outline shape around the area we want cut out, only the text will cut and we will have nothing to remove and use. The outline can take any shape desired, from a simple box to a complex series of line shapes to make the finished cut template fit in a specific location. For this example we will use a simple box.

From the tool bar select the rectangle tool.



Move the crosshair to a location in the upper left corner of the template, (be sure to remain on the white background area), Click and Hold the left mouse button and "drag" the crosshair down and to the right ending near the lower right corner of the template. The box you have drawn will cut out when the file is sent to the cutter. It is possible to specify a precise size for the box using the "properties" feature. With the outline box "Highlighted", click the RIGHT mouse button and the object menu will open. From the menu select "Properties" and you will see the object properties window. From hear you can enter a specific width and height





To return to the Layout screen, select Layout then click on Return to Layout from the menu,

ayout Setup		bl ☆				123	1
Edit Template Return to Layou	t. N			10 1154 1			2
Move to Front Move to Back	Shift+PgUp Shift+PgDn						
Align							
		3		9		4	
				NO Ser	DEL 515 (IAL NO.		
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			No.				e

The full screen view of the completed layout will be shown. NOTE: the "Page Size" you set from Print Setup combined with the Template Size, determines how many panels will fit on the page.



Step 2: Arrange the plates to fit on the cut area



1. From the [Layout] menu, click [Layout Setup]. The [Layout Setup] dialog box appears.

2. Make the settings as shown, then click [OK].



- 3. Enter the size of the work area. This is the Width and Length of the material in the cutter. From the [File] menu, click [Print Setup]. The [Print Setup] dialog box appears.
- 4. Click [Properties]. The driver properties opens.
- 5. Enter the size of the [Work Area] by clicking on [Setting], selecting the unit of measure and entering the width and length. Normally set [Image Orientation] to Landscape. Copies will select how many exact copies of the page to make. NOTE: To produce multiple copies each with a different serial number you will enter the total number of plates you want in the [Quantity] field of the [Layout Setup] box.

Setup About/Help Bren Pro 525 Work Area: 4.000 x 6.000 in Setting Image Orientation: Landscape Copies: 1 Resolution: High Media Handling: Feed Cut Extent Only Defaults: Speed: 25 cm/s
Work Area: 4.000 x 6.000 in Setting Image Orientation: Landscape Copies: 1 Resolution: High Media Handling: Feed Cut Extent Only Image Defaults: Speed: 25 cm/s

- 5. Click [OK] to close the [Print Setup] dialog box.
- 1. Click 🔲 to save the file. See Saving a File.

Step 3: Ready the cutter and send the file to the cutter

1. Install the Blade and Material to cut. See your cutter manual or Quick-Start Guide for detailed instructions for setting up your cutter. Files are sent to the Cutter with the Print command under the File menu or press the Print Button

Importing a text file into a text box

This section covers how to take text data created with a spreadsheet or database and import it into a text box.

- 1. Use a spreadsheet or database to make a text file containing the data to be imported into the text box. Choose **commas** or **tabs** as the field seperators. CutEngrave does not recognize any other seperators. For information on how to create and seperate, refer to the documentation with your spreadsheet or database.
- 2. Open a Template file that contains a text box or create a new template with a text box.
- 3. Make the settings for the size of the text, font and other settings in the text box. You can also make these settings after importing the text. In that case, from the [Layout] menu, use [Edit Template]. In this example, the text settings are made ahead of time. Select a text box, then from the [Shape] menu, click [Properties], or select the text box and right-click on the box then select [Properties] from the drop down menu.
- 4. Make the settings for the text size and layout, font type and other necessary items, then click [OK] Normally you should set the size of the text so that it doesn't exceed the size of the text box.
- 5. Click or select [Save] from the File menu, and save the template file
- 6. From the [Layout] menu, click [Layout Setup]. The [Layout Setup] box appears.
- 7. Enter the necessary layout information. It is not necessary to layout the same number of plates as the number of records. The number of plates is adjusted to be the same as the numbe of records when the records are imported.
- 8. Click [OK]
- 9. From the [File] menu, click [Import Text]. The [Open] dialog box appears.
- 10. Choose the text file you prepared in step 1, then click [OK]. The [Text Import] wizzard appears.
- 11.Click on the field seperator, then click [Next].
- 12.Specify the type of field data to import into the text box. Drag the text in the field over the text box where you want to import it. When you are done making the settings, click [Next].
- 13. Choose the records to import into the text box. To import all records, click [Select All].
- 14. When you are done specifying records, click [Finish]. The data in the text file is entered in the text box.

Creating shapes (such as circles and squares) with and aspect of 1:1 (Symetrical)

To create a shape with an aspect of 1:1, such as a circle or square, drag while holding down the [Shift] key. This function is not supported when creating text or polygons.

- 1. Click the button for creating a rectangle, rounded rectangle, circle, elipse or star.
- 2. While holding down the [Shift] key, drag the object.





Changing the size without altering the centerpoint.

To change the size without altering the position of the centerpoint, hold down the [Ctrl] key and drag an editing point. ($\blacksquare \triangle$)

- 1. Select the object.
- 2. While holding down the [Ctrl] key, drag a point (■ ▲). The size can be freely changed by dragging a square point ().

The size can be changed while maintaining the shape's verticle and horizontal aspect by holding down the [Shift] key while dragging.



The triangular points () on the left and right can be dragged to change Horizontal size. If [Ctrl] is held down the center will remain the same.

The triangular points () on the top and bottom can be dragged to change the verticle size.

Starting drawing and object from a centerpoint

To create a shape with the shape's starting point the centerpoint, drag the shape while holding down the [Ctrl] key. This function is not supported for text or polygons.

- 1. Click the button for creating a square, rounded-corner rectangle, circle, elipse or star.
- 2. Locate the cursor at the position you want to be the center of the object.
- 3. While holding down the [Ctrl] key, drag the object.

Creating regular polygons.

A regular polygon can be created by first drawing a circle, then using the slide control to modify it.

1. Click the 🖸 button.

- 2. while holding down the [Shift] key, drag to create a circle.
- 3. Select the circle with the select tool, then from the [Shape] menu select [Properties]. The [Shape Properties] dialog box appears.
- 4. Drag the shape slider. You can make any regular polygon having from three sides (an equilateral triangle) to thirteen. Draging the slider to the right side creates a circle instead of a polygon.

Shape Properties		2
Width 0.813	Height 0.813	OK
Angle 0	Slant 0	Cancel
Twist 0	- Flound-corner Fladius-	
Color	Y 0.203	X 0.203
Form		\sim
Shape	<u> </u>	
	_	\ /
Pitch 0.004	Contour	\sim

Align the centers of a number of objects

When arranging a text string at the center of a rectangle or when creating concentric circles, use the [Layout] menu's [Align] command.

1. Create the objects at any location.



- 2. Select all of the objects whose centers you wish to align. Use the [Select all] function from the [Edit] menu or click on each object while holding down the [Shift] key. You may also clock and drag a box around all objects to select.
- 3. From the [Layout] menu, click [Align]. The centers of the selected objects are aligned. If you have selected a number of objects by holding down the [Shift] key, the objects are overlaid atop the last object you selected. If you have selected the objects by dragging around the area, the objects are overlaid atop the object in the foreground.



Positioning objects using the "Snap to Grid" function

You can use the Grid as a guide for placing and sizing objects. The grid is shown on screen with vertical and horizontal lines which can be set for various spacing. To setup the grid select [Grid Setup] from the [View] menu. The Grid Setup box appears.



You can set the Horizontal and Vertical spacing by typing the value desired in the boxes provided. Selecting Show Grid will turn the grid on. Selecting Snap to Grid will turn the snap feature on which allows you to exactly position an object. The grid can be either Lines or Points. Set grid spacing check features as required, click [OK] to exit.



- 1. Create the object at any location.
- 2. From the [View] menu, click [Show Grid] to turn the grid on.
- 3. From the [View] menu, click [Snap to Grid] to activate the snap feature.
- 4. Select the objects one at a time and drag them toward the desired location. The object is pulled (snapped) to the nearest grid position.

Changing the point where an object snaps to the grid

The snap point is initially set to the lower left corner of the object. To change the snap point, hold down the [Ctrl] key and click on the desired point. The snap point can be any of the eight points around an object or the center of the object. Use this feature to align a number of objects at their centers or their upper right points, for example.

Pasting a graphic created with commercial software

You can copy images created with other software, such as CoreDRAW!, that uses vector data and paste it into CutEngrave using the clipboard. The data pasted can then be edited just like and object. Vectors are lines rather than dots as in raster or bitmap.

Conditions for data that can be pasted.

- Do not include bitmap or raster images, vector images only.
- Do not fill or apply shading inside shapes, clean lines only.
- Set line width to the finest (narrowest) available in the program.
- 1. After creating using a commercial software package, select the image and use the [Copy] function of windows to copy the data to the clipboard of the computer.
- 2. Open CutEngrave and set a page size.
- 3. From the [Edit] menu, click [Paste]. The copied data appears in CutEngrave.

Using Symbols

CutEngrave is provided with a library of Symbols. These include Packing and Shipping, Warning, Arrows, Sample and more. The symbols can be inserted into a file you are creating. New symbol designs can be added to the library by registering the design as a symbol.

Inserting an existing symbol

- 1. From the [Shape] menu, click [Symbol]. The [Symbol] dialog box appears.
- 2. Select the group from the tabs shown across the top. Scroll through the list of symbols and select the one you want by point and click.
- 3. Click insert to place the symbol on the drawing screen.
- 4. Close the Symbol box and edit the size and position of the symbol which is now on your screen.

Registering a new Symbol

- 1. Create or import the object to be registered as a symbol.
- 2. From the [Shape] menu, click [Add Symbol]. The [Add Symbol] dialog box appears.
- 3. Register the symbol with the appropriate group according to use or shape. To create a new group, click [New Group] and enter a name for the group. When adding the symbol to an esisting group, select the group name with [Group Name].
- 4. At [Symbol Name], enter a name for the symbol, then click [Add].

Importing bitmap data

Cut Engrave can import image files in Windows® bitmap format, (with a file extension of *.bmp) or in Window Metafile Format, (extension *.wmf). Once imported Cutengrave will outline (extract the contours) of the imported data and paste it as a polygon (polyline).

There are some images whose outline cannot be extracted. Please keep the following conditions in mind when creating images.

Conditions for allowing clear outline extraction from bitmap data.

- Boundaries between two colors must be sharp and well defined, with no continuous gradations.
- Using clear Black and White is recommended.
- Scanned data from photographs generally contains continuous gradations, making it unsuitable for CutEngrave outlining. Most higher level graphics programs such as CoreDRAW!, have trace functions which can allow you to make outlines or Vector files from photographs and other types of files.
- Scan resolution should be high. In general, a higher resolution yields outlining of greater accuracy. The optimal resolution varies according to a shape's complexity and size when cut. However it takes longer to import high-resolution data than low resolution.
- The size of the original being scanned should be the same as the size you wish to cut.
- 1. From the [File] menu click [Import]. The [Open] dialog box appears.
- 2. Click [Files of type] and select [Windows Bitmap File], (*.bmp). A list of files that can be imported from the location shown in [Look in] will be dispalyed. Pick the desired file and click [Open...].
- 3. The data is read into the preview screen and dispalyed. Check the contents and click [OK]. When importing a color image, outlining may not proceed as expected, depending on the colors. In such cases, drag the [Adjust Image Density] slider to adjust the image, or refer to the "Conditions for allowing clear outline extraction". Correct the image using commercial software.
- 4. The outlined object appears on screen.

Toolbar buttons

The Toolbar is provided with buttons for running CutEngrave commands such as [Open] and [Save]. Moving the mouse pointer over a button displays a brief description of the button's function.

New. Creates a New File

|--|

Open. Opens a CutEngrave file.



Save. Saves current file, overwriting the previous version.

) ⊳U⊲	Print/Cut.	Sends file to	cutter	or
	engraver f	or cutting.		

Cut. Deletes selected object and copies it to the clipboard.

Ba	Copy.	Sends	a copy	of the	selected
	object	to the c	lipboa	rd.	

æ	Paste.	Copies the contents of the
•	clipboa	ard and puts it on-screen.



1

Select. Selects and object.

-	Change.	Reposition or change vertices
-	of a poly	gon (polyline).

- Zoom. Enlarges or reduces the screen view of objects.
- A Text. Enters text into the format.

Box. Draws a square or rectangle.

- Rounded Corner. Draws a square or rectangle with rounded corners.
- Ellipse. Draws circles or ellipses.



Star. Draws a star with multi-points.

Line. Draws an open polygon (polyline) by clicking vertices.



Stroke. Converts text to stroke D characters for engraving.

Fill. Fills an object for flat-drag engraving.

Move to Front. Moves the selected object to the front layer.

Move to Back. Moves the selected object to the back layer.

Horizontal Text. Text is displayed horizontal. This is default.

Verticle Text. Text is displayed verticle.

Commands – [File] menu



[File] – [New...] command

This creates a new file.

Clicking the toolbar button creates a new document file empty of graphics or text. At the [File] menu, clicking on [New] displays the [New File] dialog box.

If you are working with a file on screen and select the [New] command a dialog box will open asking you if you wish to save the displayed file.

Keyboard shortcut [Ctrl]+[N] New File dialog box



(1) Tab

The tab shows the "group" name for the template files. The template files (*.det) in CutEngrave's [Template] folder appear in the [Standard] tab. To add a new group, create a new folder one level below the [Template] folder. The name of the folder you create becomes the tab name (group name). Folders two or more levels below the [Template] folder are not displayed.

(2)List of files

To create a new document file (*.ded) make [Document] active.

To make a new template file (*.det) make Template active.

(3)Preview

Displays the contents of selected file.

(4) Document

Selects [Document] (*.ded) as the file type.

(5)Template

Selects [Template] (*.det) as the file type.

[File] – [Open...] command

This Opens a CutEngrave file. Selecting [Open] opens the [Open] dialog box. Use [Look in] to locate files of type (*.ded) or (*.det).

Keyboard shortcut [Ctrl]+[O]

[File] – [Save] command

Saves the current file, overwriting any previous version. To save a file with a different name, use [Save as...] command.

Keyboard shortcut [Ctrl]+[S]

[File] – [Save As...] command

Saves file with a different name or in a different location. Opens [Save As] dialog box.

[File] – [Import...] command

This imports a file created in another software package. Files of type (*.bmp), (*.wmf) and Vector Art may be imported. Opens the [Open] dialog box with (*.bmp) type selected.

[File] – [Import Text...] command

This imports a comma or tab seperated text file, created in a database or spreadsheet program, into a text box. This command is only available when multiple plates have been lais out. Running this command displays the [Open] dialog box. Locate and choose a file to bring up the [Text Import] wizard. Follow instructions in [Text Import] wizard.

[File] – [Select Source] command

Selects the scanner connected to the computer as a source for input. CutEngrave supports scanners that comply with TWAIN_32. For information on connecting and using the scanner see the scanner documentation. NOTE: It is usually best to scann using the software provided with your scanner or other program which allows easy "clean up" of the scanned image, then save the file.

[File] – [Acquire...] command

Takes an image from the scanner. The acquired image is outlined and inserted as an object.

[File] – [Print...] command

Sends the displayed data to the cutting device. This command opens the [Print] dialog box. Select the device at [Name], use [Properties] to set required features.

[File] – [Print Preview] command

Displays what the result of printing will look like. Running this command changes the display to the preview screen.

Preview Screen commands Print... Sendsa data to the cutter, opens [Print] dialog box. Page Setup... Opens [Page Setup] dialog box. Allows changes to print settings Zoom In... Enlarges display view. Zoom Out... Reduces display view. Close... Closes the Preview screen and returns to main.

[File] – [Print Setup] command

Used to select the driver for the cutter. Opens the [Print Setup] dialog box. Click [Properties] to set work area size, tool speed, orientation and so on. The settings made in Print Setup are temporary and will be lost when you leave CutEngrave.

[File] – [Preferences..] command

Sets the default font, text height, screen color scheme and zoom ratio. Opens [Preferences] dialog box.



[File] – [Exit] command Ends the program and closes display. Changes made may be saved or discarded before close.

Commands – [Edit] menu

[Edit] – [Undo] command

Erases last change and returns to previous. Keyboard Shortcut [Ctrl]+[A]

[Edit] – [Redo] command

Cancels the [Undo] command. Keyboard Shortcut [Ctrl]+[Y]

[Edit] - [Cut] command

Deletes the selected object and copies it to the clipboard. Contents of the clipboard ate held until another object is copied. Keyboard Shortcut [Ctrl]+[X]

[Edit] – [Copy] command

Copies the selected object to the clipboard and does not erase the original.

Keyboard Shortcut [Ctrl]+[C]

[Edit] – [Paste] command

Copies the contents of the clipboard and "pastes" it into the selected location on the display.

Keyboard Shortcut [Ctrl]+[V]

[Edit] – [Delete] command

Deletes (erases0 the selected object. The deleted object is not copied to the clipboard. Keyboard Shortcut [Delete]

[Edit] – [Select All] command

Selects all objects on the display screen. Keyboard Shortcut [Ctrl]+[A]

Commands – [View] menu

[View]-[Zoom]-[Zoom Out]

commands

Displays an enlarged view of the object. Keyboard Shortcut [Ctrl]+[Page Down]

[View]-[Zoom]-[Zoom In] command

Displays a reduced view of he object. Keyboard Shortcut [Ctrl]+[Page Up]

[View]-[Zoom]-[Custom] command

Specifies the ratio for enlarging or reducing the view of the object. Opens the [Zoom Setup] dialog box. To set the zoom ration when CutEngrave starts, from the [File] menu pick [Preferences]



Enter the Zoom ratio as a percentage or drag the slider up or down to increase or decrease the ratio.

[View]-[Fit to Screen] command

Expands or contracts the display to fill the available screen.

[View]-[Toolbar] command

Toggles the display of the toolbar on or off. Toggling off the toolbar display enlarges the display area.

[View]-[Object info.] command

Toggles the display of the object information bar on or off. Object information bar, located across the lower edge of the display, shows position of the mouse relative to the origin, as well as the object centerpoint, dimensions and angle. Toggling off the object information bar enlarges the display area.

[View]-[Status Bar] command

Toggles the display of the status bar on or off. The status bar shows helpful comments about commands. We suggest leaving the status bar on until you are familiar with CutEngrave. Toggling the status bar off enlarges the display area.

[View]-[Layout info.]command

Displays or hides the layout information bar. The layout information bar shows the position of the lower left point (start point) of the plate laid out at the lower left, the spacing of adjacent templates, the presently displayed page and the page feed buttons.

[View]-[Guide Lines] command

Displays or hides the guide lines. You can display or hide the guide lines only when more than one plate is laid out. Using the guide lines you can make these settings with the mouse; The position of the lower left point of the plate. The spacing between the plates.

[View]-[Show Grid] command

Turns the display of the grid on or off.

[View]-[Snap to Grid] command

When this is on, objects are automatically aligned with the grid lines. The default snap point is the object's lower left point. To change the snap point, hold down [Ctrl] and click on the desired point. The center is also a snap point.

[View]-[Grid Setup] command

This allows you to set the grid intervals, whether the grid is displayed or not and turns snap grid on or off. Running this command displays the [Grid Setup] dialog box.

[Grid Setup] dialog box

la selop		
Interval		OK
Horizontal 1	inch	Cancel
Vertical 1	inch -	
Show Grid	Line	
Snap To Grid	C Point	

Commands – [Format] menu

[Format]-[Font] command

Selects the font for a block of text. Running this command opens the [Font Select] dialog box. When no text is selected, this command sets the font used when text is entered. The default font is set from [File] menu, [Preferences].



[Format]-[Style] command

Specifies a style, (bold or italic), for a string of text. To specify a setting other than line width or slant, click [Other]. Opens the Text String Properties or the Text Box Properties.

[Format]-[Direction] command

Selects verticle of horizontal for text direction.

[Format]-[Line Alignment] command

To center, left align, right align or justify a text string. For a text box you can attach text above or below the box. You can layout text with proportional spacing in a text box.

[Format]-[Character Spacing] command

Specifies the spacing between adjacent characters. To specify a spacing other than the ones available, click [Other].

[Format]-[Make Stroke] command

Converts standard text into a Stroke Font, (made up of single vector segments0, for Engraving.

[Format]-[Properties]

command

Used to change the attributes and size of a string of text. Opens either Text String Properties or Text Box Properties.

Commands - [Shape] menu

[Shape]-[Properties] command

Used to change the form of an object by modifying its numerical values.

Keyboard Shortcut [Alt]+[Enter]



Shape Properties dialog box



[Polygon Properties] dialog box

olygon Prop	erties	
Width 0.979	Height 1.01	ОК
Angle 0	Slant 0	Cancel
Aspect 1	Keep Aspect f	or input
Color		
	Pitch 0.004	Contour

[Shape]-[Move Shape] command

Specifies an objects distance from the origin point. Running this command displays the [Moving Shape] dialog box.

[Moving a Shape] dialog box



[Shape]-[Mirror] command

Flips an object from left to righ, creating a mirror image.

[Shape]-[Convert to Polygon] command

Changes the attribute for an object other than a polygon to the attribute for a polygon. Converting an object to a polygon makes it possible to edit its points (vertices). Once an object is converted to a polygon, it cannot be converted back as (text, rectangle, rounded rectangle, circle/ellipse or star)

[Shape]-[Combine Polygons] command

A number of objects can be grouped together and united as one polygon (object). Select the individual objects to be combined then run this command.

[Shape]-[Break Apart]

command

Splits a polygon into individual line segments which can be edited or moved.

[Shape]-[Insert Vertex]

command

Adds a vertex (point) at the specified location of a polygon.

[Shape]-[Delete Vertex]

command

Removes the selected vetex (point0.

[Shape]-[Connect Vertex] command

Connects the end points of an open polygon (polyline) with a line. To connect vertices, choose two open endpoints of a polygon (polyline), then run this command. To connect the endpoint of a different polygon. Select the target polygon. From [Shape] menu, click [Combine Polygons]. Select the two endpoints, from [Shape] click [Connect Vertex].

[Shape]-[Sever Vertex] command

Severs (cuts) a polygon (polyline) at a specified point. To specify the point, click on one of the polygons line segments or vertices.

[Shape]-[Snap to Vertex] command

This overlays the selected vertex on the closest vertex.

[Shape]-[Symbols] command

Adds a Symbol to a file being edited. Running this command opens the [Symbol] dialog box.

01		\bigcirc	X	-
03 04		$\overline{}$		
05 06 07		ျာ	[0]	
08 09		Ā	L	
Delete Symbol		4	75	
Group Setup	- P	茂	R	
Delete Group	ı لک	\cup	l U	-

[Shape]-[Add Symbol] command

Used to register into CutEngrave symbol tables. Running this command opens the [Add Symbol] dialog box.

Add Symbol	2
Group Name	-
Sample	
Symbol Name	
0000	
, ,,	- 12
Add Cancel	New Group

Commands – [Layout] menu

[Layout]-[Layout Setup] command

Lays out multiple templates within the given area (page size). To lay out a template file that's being edited, save the file before you run this command. After you change to the Plate Lay out Mode, you can't save the template file. Running this command opens the [Layout Setup] dialog box.



[Layout]-[Edit Template] command

For changing the contents of a template. Running this command opens the Template Edit screen. Changes in the values immediately affect the laid out plates. Note that the reference template does not change. To go back to the Plate Layout screen, run the [Return to Layout] command.

[Layout]-[Return to Layout] command

When editing a template with the [Edit Template] command, this returns you to the Plate Layout screen.

[Layout]-[Move to Front] command

Changes the front to back relationship of the objects. Selected object is moved to the front.

[Layout]-[Move to Back]

command

Moves selected object(s) to the back.

If you think there's a problem.

CutEngrave does not work.

Does the computer provide a Windows® operating system? Did you load all the program parts,

CutEngrave, Fonts and Drivers?

Did you use the automatic install programs which will put the correct parts on your computer?

Did you Runthe program after installing?

Cutter does not function

Is power from a working outlet supplied?

Have you selected the Roll or Sheet setting correctly?

Is material loaded and the cutter display at a ready to cut condition?

Are you using the cable supplied with your cutter?

Is the cable properly connected to both the computer and cutter?

Error Messages

XXXXX Illegal Font

The file you tried to o[pen contains a font which is not registerd in Windows®. When this happens, a list of substitute fonts is displayed.

Not enough memory

If you get this message the computer has insufficient memory to process with. Close all other applications and re-start Windows®. If the message persists, you may need to free up some space on the hard disk for windows to use for virtual memory.

Could not generate outline

An outline could not be extracted because of the faint color distinction of a scanned image or bitmap data imported with the import command. Extremely complex images may not be outlinable in CutEngrave, in ths case use a more powerful program to outline the image and save the file.

Unexpected File Format

The file formats that can be used by CutEngrave are; Windows Bitmap, extension 9*.bmp) (Import only). CSV, extension(*.csv) (Import text only) TEXT, extension (*.txt) (Import text only) CutEngrave Document file, (*.ded) CutEngrave Template file, (*>det)