

Artcut[®] Software

User's Manual

Artcut[®] Software

Wentai Technology Co.,Ltd.

Content

License Agreement	1
Chapter 1 Installation	3
Chapter 2 Start.....	5
Chapter 3 Basics	6
Chapter 4 Icon Bars	10
Chapter 5 File Menu	13
Chapter 6 Edit Menu.....	19
Chapter 7 View Menu	22
Chapter 8 Text Menu	25
Chapter 9 Graph Menu.....	31
Chapter 10 Table Menu.....	33
Chapter 11 Align Menu.....	36
Chapter 12 Edit Nodes.....	42
Chapter 13 Advanced.....	46
Chapter 14 Options.....	53
Chapter 15 Cut / Plot.....	54

Wentai SOFTWARE LICENSE AGREEMENT

Welcome to ARTCUT.

This agreement gives you certain rights and duties regarding the Software Program, the Users' Guides and the CD Disc that you are licensing from Wentai Co.. The Software Program, the Users' Guides and the CD Disc will be referred to together here as the "Licensed Materials."

YOU AGREE THAT BY USING THE LICENSED MATERIALS, YOU WILL ACCEPT THE TERMS OF THIS AGREEMENT. If you do not accept these terms, please immediately return the Licensed Materials to Wentai Co. or to the distributor from whom you have received them.

1. License grant and termination. Wentai grants you a personal, non-transferable, non-exclusive license to use the Licensed Materials for the ordinary purposes of your business. If you breach any term of this Agreement, this license will immediately terminate and you must promptly return the Licensed Materials to Wentai.
2. Wentai copyright, etc. no copies or transfers, etc. You acknowledge that the Licensed Materials are protected by copyrights held by Wentai's parent company and by third parties. You acknowledge that the Licensed Materials embody trade secrets owned by Wentai's parent and third parties. You may not copy any part of the Licensed Materials for any purpose. You may not disassemble, decompile, reverse engineer or make changes in the Licensed Materials for any purpose. You may not disassemble, decompile, reverse engineer or make changes in the Licensed Materials. You may not

loan or transfer the Licensed Materials to any third party. You may not allow any third party to use the Licensed Materials or to make copies of them. You may not emulate, replace or modify the CD Disc.

3. Warranty, disclaimers, remedies. Wentai warrants that the Disc containing the Software Program. WENTAI DISCLAIMS ALL OTHER EXPRESS AND IMPLIED WARRANTIES REGARDING THE DISC AND THE LICENSED MATERIALS. You agree that your only remedy for any breach of the above warranty will be that if you discover any defect in the Disc within 30 days after receiving them, Wentai will provide you with non-defective Disc.
4. No damages beyond Purchase Price. You agree that if, in connection with your use of the Licensed Materials, you incur direct or indirect injury of any kind, including injury to persons or property or lost profit; neither Wentai nor any third party shall be liable to you except for the Purchase Price.
5. Governing law. This agreement is governed by the laws of China and International treaties.

Copyright 2000, Wentai Co LTD
ALL RIGHTS RESERVED

Chapter1 INSTALLATION

1. Requirement for your computer system

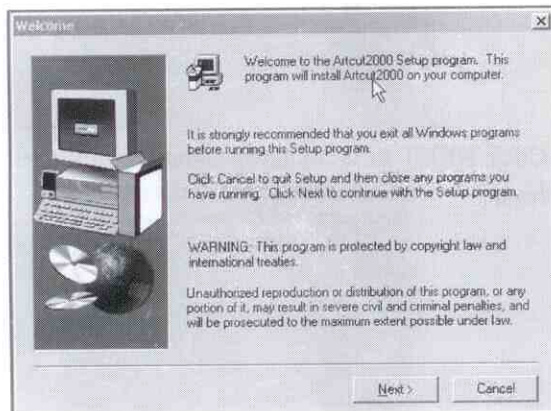
- 1.1 Operation system: Windows9X/Me/2000/XP/Vista;
- 1.2 CPU: 486 or later;
- 1.3 RAM: minimum 32 (MB);
Hard disk: 1GB
- 1.4 Monitor display: 800X600

2. Installation

2.1 Running Setup.exe program

- 1) Insert the Artcut Disc into CD-ROM.
- 2) the setup program will be running automatically.
- 3) If not, click start->run button to run Setup.exe program in "Artcut " Disc.

The screen will display as:

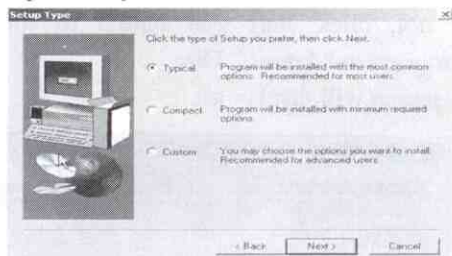


2.2 Click Next, the License Agreement is shown, click YES to continue installation;

2.3 The default destination folder of installation is C:\ARTCUT6. If you want to change the destination folder, please click BROWSE button to choose a new folder.

2.4 After choosing destination folder, click Next and the following dialog box is shown. There are three options of installation:

- Typical: Essential program file, help and some font files;
- Compact: Essential program files only;
- Custom: Essential program files, and other components you would like to install;



2.5 Click NEXT to continue installation until the screen displays:



2.6 Click FINISH to end setup

Chapter 2 START

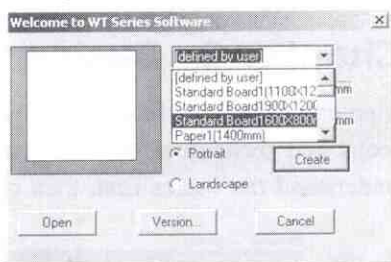
1. Get in The Software

1.1 Select Program Menu from Start, Click WT Artcut or WT Artgrave.

1.2 At your first time entering Artcut software, the program will prompt to insert **Artcut Graph Disc** into CD-ROM to confirm the system.


2. Page size setting

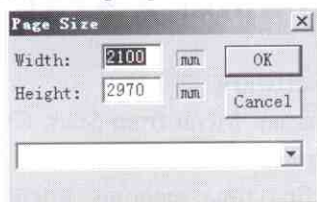
1) Every time when the program is running, the following page size setting dialog box would display.




2) In this case, you can set the size according to your need. The software would auto separate layout in multiple pages to plot when the page size setting is beyond scope of the plot.

3) Click the arrow beside the text field to select various preset models with fix size, such as standard showing board, standard paper, etc.

4) You can set page size when the program is running. Select Page Size command from Option Menu or Click icon  to get a dialogue panel as:



3. **To Exit** The Software system, there are 3 ways:

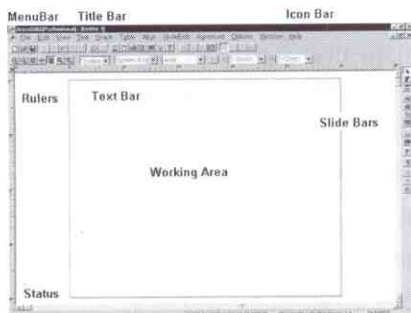
- 1) Click the exiting button  on the top-right corner of the Main Window;
 - 2) Choose Exit from File Menu;
- Press hotkey Alt+F4.

Chapter 3 Basics

The Basics is an explanation of how to use basic Artcut commands, icons and techniques to start using Artcut. You should understand the basics first, then continue to familiarize yourself with the program.

Title Bar

Displays the name of the program and file name you are currently working on.



Menu Bar

Click on a menu category to access a list of commands. .

Icon Bar

Display the icons to access most of the Artcut commands. Press and hold the mouse on the icon, the description will be displayed.

Rulers

Use as a reference for positioning.

Slide Bars

Standard Windows type slide bars which are used to shift the view of screen.

Status Bar

Information about the currently selected command.

Working Area

Also known as the layout or window.

Method of selecting object:

1, Dragging a frame to select:

Press and hold left button of mouse, drag the mouse to get a blue frame. All objects inside and on the border of this frame would be selected after you release the mouse.

2, Click to select objects:

Move the mouse to the wanted object, click left button of

mouse, the object will be selected.

3, Dragging a frame while pressing Ctrl Key to select:

Press and hold Ctrl Key in keyboard, then Press and hold left button of mouse, drag the mouse to get a blue frame. Only the objects **inside** of this frame will be selected after you release the mouse.

4, Multi-Click to select objects:

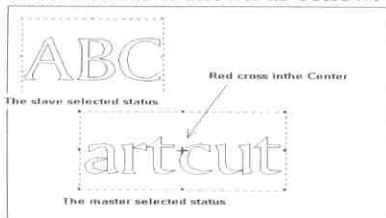
- 1) Move the mouse to the wanted object, click left button of mouse to select this object.
- 2) Press and hold **Shift** Key in keyboard, move the mouse to another wanted object, click left button of mouse to select the different objects.
- 3) Redo the above step 2, you can select multiple objects.

Master selected status and Slave selected status

If more than one objects are selected, only one of the selected objects is called **master selected status**. The other selected objects we call slave selected status.

The master selected status is identified by a **red cross** in the center of the selected frame.

The two selected status is shown as bellow:



The Typesetting Objects in Working Area

There are 4 kinds of objects in The Software. Each of which is bordered by an oblong and can be moved or resized using mouse or keyboard.

- 1) **Text Object** is a group of letters. You can edit this object in the following ways:
 - Add, delete and modify letters;
 - Change the properties of the text in all or part;
 - Convert Text Object into Graphics Object using tool bar.
- 2) **Graphics Object** is made up of curves or lines and can be modified using Node Edit from Control Tool Bar;
- 3) **Table Object** is a group of some cells of table. This object can be exported to cutter plotter or engraver directly;
- 4) **Image Object** is imported from scanner or other files. Image object would not be exported to cutter plotter/engraver directly, but only when it is converted to Graphics using Image Tracing command of The Software.

The Status of Mouse Cursor

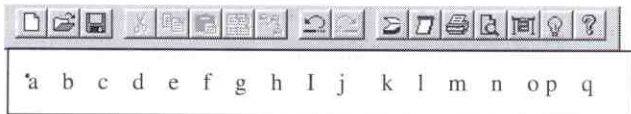
The Software defined deferent operation status of mouse cursor, which can be exchanged from each others.

- a) Option Status: The cursor on screen is “+”, which is for choosing, moving or resizing objects using mouse or keyboard;
- b) Text Input Status: The cursor on screen is “I”, which is for text inputting and editing using

- mouse or keyboard;
- c) Graphics Import Status: The cursor will be different according to the being imported graphics, such as Bz \square etc. You can press the left mouse button and drag the mouse to input graphics;
 - d) Node Edit Status: The cursor on screen is \blacktriangleright , which is for nodes editing using mouse or keyboard.

CHAPTER 4 Icon Bars

This chapter describes the icon bars of the Artcut /Artgrave software.

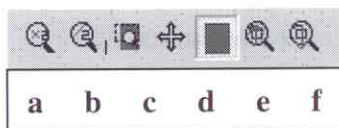


1. Common Toolbar

- a. New: make a new file
- b. Open: open a file
- c. Save: save current file
- d. Cut: cut the selected group
- e. Copy: copy the selected group to clipboard
- f. Paste: insert the contents in clipboard into current working area
- g. Multiple Copies

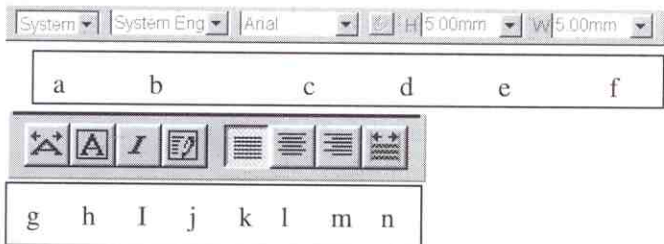
- h. Paste along Path
- i. Undo: restore the latest option
- j. Redo: repeat the latest restore action
- k. Trace: transfer a image to contours
- l. Page Size: modify the size of a page
- m. Print: print current file
- n. Print preview: show what will get from print
- o. Cut/Plot: export current file to cutter plotter/engraver
- p. Redraw: renew display of the screen
- q. About: display information about program

2. View Tool Bar



- a. 2X Zoom in: 2 times zoom in (cursor center)
- b. 2X Zoom Out : 2 times zoom out (cursor center)
- c. Drawing box Zoom in: Once you select this command, press and hold the left mouse to create the area you want to zoom in upon, once you release the mouse, it will fill the screen with the selected area.
- d. Move: Display the screen as the cursor being the center
- e. Full Page: show the whole page on current screen
- f. Previous View: return to the status previously displayed
- g. Next View: repeat the status latest canceled

3. Font Tool Bar



- Multi-languages for selection
- Font Group: for selection (TTF or other groups of font)
- Font Type: font name
- Setting Font Parameter: shortcut icon, click to get a panel to select font type.
- Font Size-Height: for input or selection
- Font Size-Width : for input or selection
- Exact Size: adapt the selected text to the set value as better as possible
- Border: add border to the selected text
- Setting: define the parameter of selected fonts, such as italic, rotating etc.
- Text Input: click to get a panel to input text directly
- Align text left
- Align text middle
- Align text right
- Align text fill

4. Control Tool Bar

- Select Status
- Text Input Status
- Node Edit Status

- d. Graphics Lib. I: show/hide
- e. Graphics Lib. II: show/hide
- f. Graphics Bar: show/hide
- g. Table Bar: show/hide
- h. Palette: show/hide and modify corresponding color scheme
- i. Fill tool
- j. Typesetting Arrange Bar: show/hidden
- k. Align Tool Bar: show/hidden
- l. Group: group the selected objects
- m. Ungroup: Ungroup the selected objects to several graphics
- n. Text ungroup: selected text block



Chapter 5 File Menu

The commands in the file menu are shown as bellow:



Restart:

To start a new file.

New

To start a new document. Artcut/Artgrave software support opening multiple documents at a time.

Open

To open an existing AC6 file. You can open a file from current directory(default: c:\artcut6),or from another directory. Double click on a file, Artcut will select the file and open it.

Close

To close current document. You will be prompted to save the document if any changes were made since the last save or if it has not already been saved.

Save

To save the current document. If you are saving a file for the first time, the save file dialog box will be displayed. Refer to the Save As command for more information.

Save As

Choosing directory and file name to save current document a as .AC6 file.

Import

To load a file from another programe.

You can select the desired file format from file type, such as PLT, EPS, TXT, BMP, DXF/R12 etc.

Export

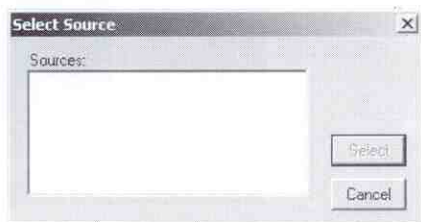
To save Artcut/Artgrave AC6 file into other formats to be used by other programs.

New Graph Lib:

Get Chinese traditional graph.

Select Twain_32 Source

Click “Select Twain_32 Source” from Files Menu, a dialog box displays your current twain source (scanner). You can select current using scanner.

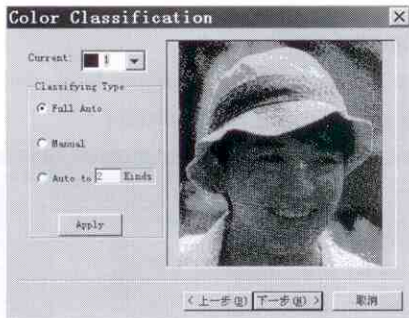


Twain_32 Sanning

To get a dialog box of the selected Twain_32 scanner. You could scan image base on this dialog box. If the image file is 1 bit Bmp format, Image Tracing is more efficient.

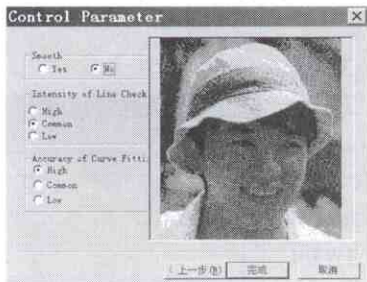
Image Tracing:

You could scan a image or load a existing image file. A 24 bits true color image will be transferred into 256 colors automatically. A



dialog Box displays as bellow, which shows the basic information of the image.

Click Next, a dialog box displays as bellow



If the image has fine quality, you could select No in front of Smooth, otherwise select Yes.

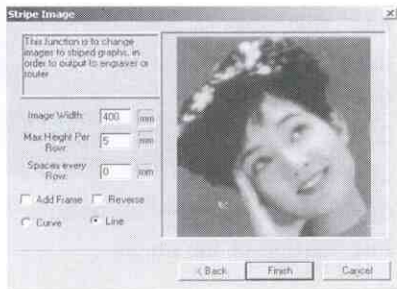
If the borders of the image mainly are straight lines, choose High for Intensity of Line Check. If they are curves, choose Low. Otherwise choose Common.

Choose High or Low for Accuracy of Curve for lower/higher scanning resolution or better/worse graphics. It is recommend to choose middle in most cases. Click OK, then the Software

Stripe Image

This function is for making large breadth images with hazy effect using cutter plotter.

Click Strip Image from File Menu to display a dialog box for selecting object image. Select the object image and Click Open, a dialog box displays basic



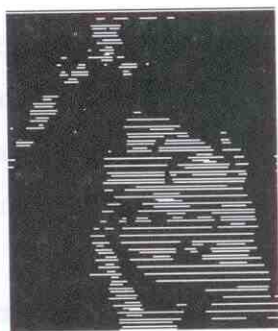
information of the image.

a in front of Add Frame means that an outside border will be added on created striping graphics. The image remaining on the paste after pulling the frame off is positive film. The pulled part is negative. An in front of Reversal to get reverse result of that mentioned above in this item.

Click Finish to get a striped image.





Original

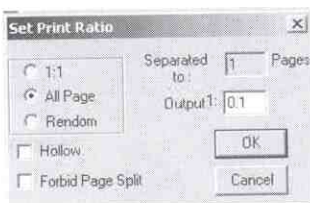


Striped

Print/Print preview/Printer Setup

The print command is convenient, especially separate printing a layout to papers at random size.

Click print icon  to set print parameters, then click print, or Click print preview icon  from Common tool bar to get a dialog box as:



1:1 means output by the actual size of typesetting set.

All Page means printing the layout on a paper.

Random means that the printing ratio can be set by user.

Contour: output of outlines only.

Forbid separate page: Print the current layout to fit in one paper.

Click OK to start printing.

Cut/Plot: See chapter 15 “Cut/plot”

To Engraver/Router: command Of Artgrave software .

To Laser Engraver: command Of Artgrave software .

Save tool path to file: command Of Artgrave software.

Horizontal Cut Line/Vertical Cut Line

Set a horizontal line or vertical line to separate the current layout to multiple parts. In Cut/Plot dialog box, each part is in different area. That is means the separating part could be plot separately.



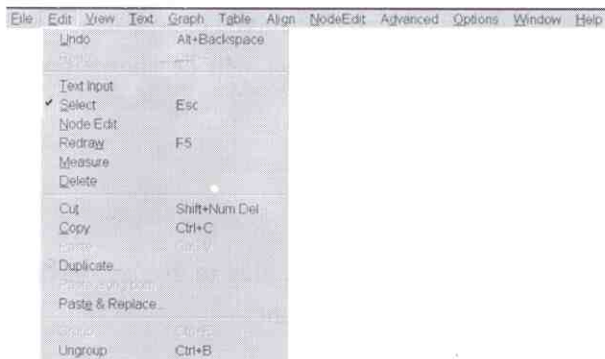
The Vertical Cut Line

Area 1

Area 2

Chapter 6 Edit Menu

To choose one of the editing commands, choose the command from the Edit menu, or click on the Icon. When selecting a command from Edit menu, click on Edit, then drag the cursor down to the desired command.



Undo

To reverse your most recent action. It may be chosen as many as 128 times to undo previous editing operations.

Redo

Use the Redo command to reverse any operation changed by the Undo command. You can continue select the Redo command.

Text Input

Change cursors to text input status. After choosing the Text Input, you could move the mouse and select anywhere in the working area to input text.

Select

Change cursors to select status. After choosing the Select status, you could move the mouse to the object and click to select the object, or drag a square to select more than one objects.

Node edit

Selecting object first. When you choose the Node Edit command, the selected object will be shown node edit status.

Redraw

Redraw the current view.

Measure

Press and hold the mouse, drag to display the distance from start point to current point.

Delete

Delete the selected objects or texts.


Delete Tool path

It is command of artgrave software. Delete the Tool Path of the selected objects.


Cut

Use the Cut command to remove the selecting group or objects and place the selecting group or objects into Clipboard.

Copy

Use the Copy command or click icon  to place the selecting group or objects into Clipboard.

Paste

Use the Paste command or click icon  to paste the last group or object that was cut or copied to the clipboard into your current document or a new one. You can copy or cut a group from a document and use the Paste command to place the group as many times as needed.

Duplicate

Use this command to create horizontal and vertical copies at the same time. You can set the number of horizontal and vertical copies as well as the space between each copy.

Paste along path

Use this command to paste a object along a selected path which could be an Arc, Curve etc. Example:

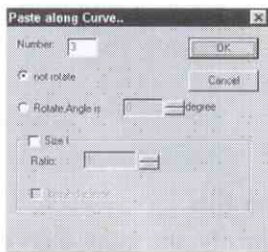
This function is mainly for making various laceworks. Here is an example of pasting small triangle onto a circle.

1, Draw small triangle and circle as at first.

2, Drag a box to make the small triangle selected and copy it onto clipboard.

3, Make the circle selected, then click Paste along Path from Edit Menu to get a dialogue panel as:

4, Set 20 for Paste Number, 0 to Baseline. Click OK, the



result will be :

5. Repeat the step 3, select 180 to Baseline and click OK.

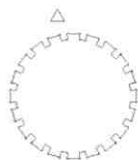
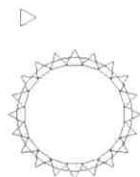
6. Drag a box to select the circle and all the triangles on the circle, then click

Weld from Advanced Menu, the result will be shown as

Group: Use this command to place the selecting contours into a group.

Ungroup

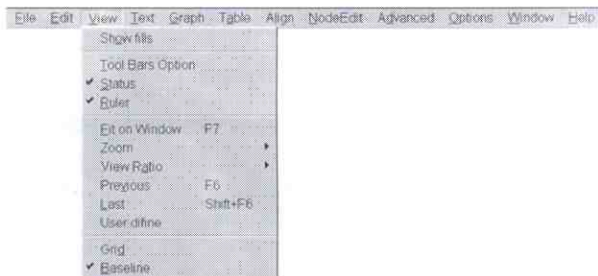
Use this command to remove contours from a selecting group.



Chapter 7 View Menu

The commands available in the View menu have to do the view or display of information in a layout. You can also click on the icon to select a common used view command.

The View menu commands list as below:



Show fills

Normally, the input texts or graphs are shown as contour text. After selecting Show fills, the text and graphs are

shown as bellow:



Tool bars Option

Displays a dialog box to show you all kinds of Icon/Bars.
Check to select what kind of icon bar you want to shown in the window.

Status



Show and hide the status line.

Ruler



Show and hide the rulers.

Fit on window

To display all of the current layout on the window.

2X Zoom In  / **2X Zoom Out** 


Select the 2x Zoom In/Zoom out command or click icon



showed above, the cursor will be in status as  or .

Move cursor on the wanted object and click, the object will be 2 times zoom in/out at the center position where the cursor was. Continually click is acceptable.


(Hot keys: F9/F10.)

Drawing box Zoom In



Select this command or click icon , the cursor will be



as  . Move cursor  into working area, then press and hold left key of mouse and drag a box. All contents in the box will be display on the screen.

Full Page

Select this command or Click icon  to display full page on window. (**Hot key** is F8.)

Previous view/Next View

Previous view  /Next view  : display the result before/after a view operation

Move page: Click icon  from Resizing Tool Bar, the cursor will be as  . Move cursor into working area (page), then click to move the page, the contents will display centered by the position where the cursor is.

Maximum View: Click Ultimate View from View Menu to display all contents of the page on the screen. (Hot key: F7.)

Horizontal/Vertical fill: Click it in zoom item from View Menu to display horizontal/vertical contents of page on the screen.

Fixed Proportion: Click Ratio from View Menu to display page in selected fixed proportion.

Random Proportion: Click Random Display from View Menu to show page in setting proportion.

Grid

Show and hide Grid.

Baseline

Show and hide baseline.



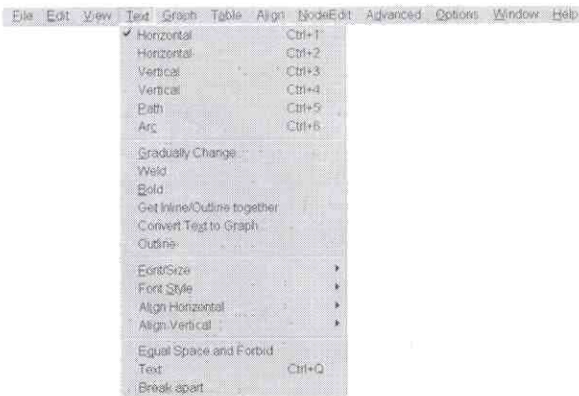
Hiding the Base line



Showing the Base line

Chapter 8 Text Menu

To choose one of the “Text” commands, choose the command from the Text menu, or click on the Icon. When selecting a command from Text menu, click on Text, then drag the cursor down to the desired command.



Horizontal Text (LTR)



1, Original horizontal text (LTR)

2, Press space key once to rotate the text 90 degree automatically

3, Press space key once more to rotate the text 180 degree automatically

4, Press space key once more to rotate the text 270 degree automatically

Horizontal Text (RTL),

Vertical Text (LTR),

Vertical Text (RTL)

The different text style is shown as bellow.



1, Horizontal Text (RTL)

2, Horizontal Text (LTR),

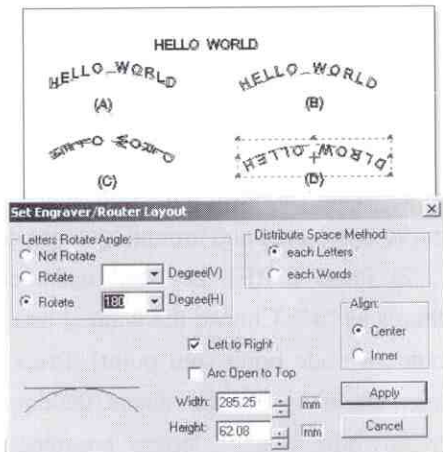
3, Vertical Text (RTL),

4, Vertical Text (LTR)

Path Text

Arc Text

1, Make cursor in choosing status “+”, select the text block. Click Arc Text from Text Menu, the dialog box is shown as :



2, Set parameters: (a) Not Rotate; (b)-(d) Rotate.

3, Proportion spaces between letters/words: Click to choose the option button in front of Distribute Spaces Method.

4, Align Style

1) Center: comparing the center point of words;

2) Inner: comparing the left-down point of words.

5, From left to right/from right to left: Fill/delete ✓ in the check box of Left to Right.

6, Spread up: Click the check box of Arc Open to Top to fill ✓, then the curve spreads upward, along which the letters will line up.

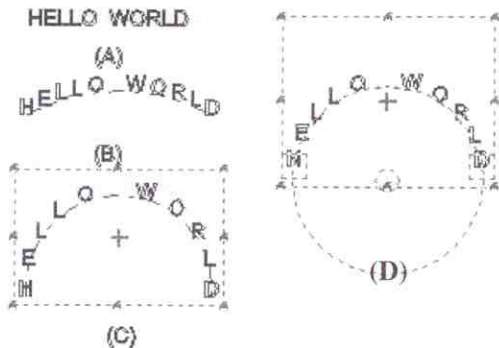
7, Width and height: set the curve, unit: mm. Modify font properties of letters in curve arrangement:

- 1) Make cursor in Text Input Status as "I", press and hold the left key of mouse, move mouse to select the wanted text
- 2) Modify the parameters on Font Bar.

8, Modify the radian of curve without changing the letters/words:

1) Make cursor in Selection Status, click text, then the curve is selected and around by a red dotted line oblong.

2) Press SHIFT key and make cursor in Selection Status as "+". Choose the wanted text. Move cursor onto random node point (red point). Press left key of mouse keep on, and move the mouse, the curve will be changed. Meanwhile, the letters arranged by curve will be changed accordingly.



While drag red point to get the result as (C) , the dialog box must be canceled.

9 Circle Path. Click + from (C), then the result will be as (D). The curve became a circle with two small oblongs. Press small oblong to move and adjust position of letters/words along this circle.

(1) Letters line up along straight line, Bezier, curve, circle etc. is also available.

Weld



Original



Weld

Bold, Get Inline/Outline together, Outline

The result of the commands is shown bellow:



Original



Outline



Bold



Inner/outline

Convert Text to Graph

Use this command to change texts to graph. If changing to graph contour, you can not use font size to modify their size.

There are three options:

- 1, one row of the texts are joint as a group
- 2, each word are joint as a group
- 3, each contour is separated alone

Font Size, Font Style


Use these commands to set size and font type of the selecting texts. Click on font type, then drag the cursor down, you can see the sample of font type.

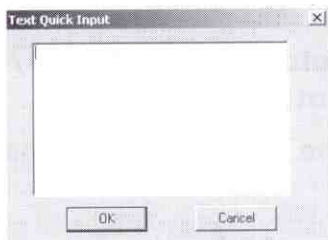
Align Horizontal

Align Vertical

Equal Space and Forbid

Text Input

Use this command or click icon  from Font Tool Bar to get a text input dialog box as:



Move the cursor into the input area, click

left button of mouse and the cursor become as “I”.

Type “HELLO” and so on, click OK, then the text “HELLO” will be on the layout.

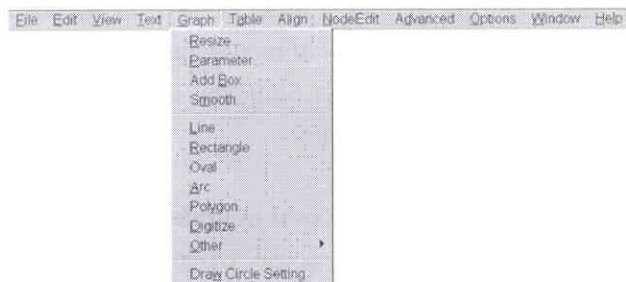
Text files, such as Notepad, Word, etc. could also be pasted to this text input dialog box.

Break apart

Use this command to break texts to several part. After Break apart, you can also use font size to modify size of the text. There are three options to break apart.

Chapter 9 Graph Menu

To choose one of the “Graph” commands, choose the command from the Graph menu, or click on the Icon. When selecting a command from Graph menu, click on Graph, then drag the cursor down to the desired command.



Resize

Use this command to reset the size of selecting group or objects.

Parameter

Use this command to reset the size of graph. Text is not available.

Add Box

Use this command to add a box border to a selected graph. The Text group is not available.

Smooth

Use this command to smooth a selecting graph (contour).

