Panasonic

Laser Marker/Laser Processing Machine

Logo Data Editing Software Operation Manual

ME-LOGOE-OP-19

2020.10 | panasonic.net/id/pidsx/global

Preface

Thank you for purchasing our product.
For full use of this product safely and properly, please read this manual carefully.
This product has been strictly checked and tested prior to its delivery, however, please make sure that this product operates properly before using it.
In case that the product becomes damaged or does not operate as specified in this manual, contact our sales office.

■ Note

1. This manual is subject to the software attached to the laser marker / laser processing machine. Note that illustrations might be little different depending on the models.
2. Contents of this manual will be changed without notice. (including products modifications, and discontinuance).
3. This manual and software must not be partially or totally copied or revised.
4. If there are any questions, mistakes, or comments in this manual, please notify us.
5. Please remind that we have not responsibility of any results of operations in regardless of the above clauses.

■ Trademarks

- Windows is a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.
- All other product names and companies provided in this manual are trademarks or registered trademarks of their respective companies.

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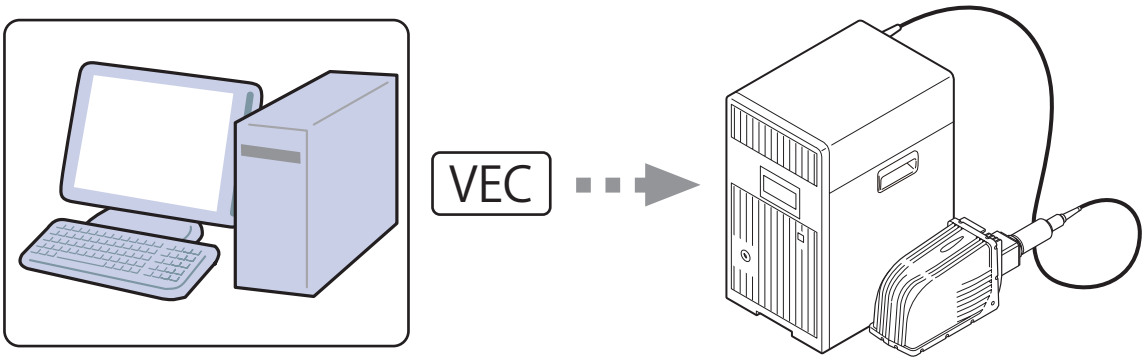
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1. Outline of Logo Data Editing Software

Logo Data Editing Software is used for the creation and editing the drawing data in “VEC” format, which can be used for the laser marker / laser processing machine.



Logo Data Editing Software:
Creating and editing drawing data in “VEC” format.

Laser Marker / Laser Processing Machine

2. Installation / Uninstallation

2-1 Operating Environment

This software is stored in the following CD-ROM attached to the laser marker or laser processing machine and can be installed to the following OS.

Laser system	CD-ROM	Applicable OS *1
LP-GS/RC/RF/RV series	Laser Marker Smart Utility	Microsoft® Windows® 10 Pro 32bit, 64bit Microsoft® Windows® 8.1 Pro 32bit, 64bit
LP-M/S/Z series	Laser Marker Utility	
LP-400/V/W series	Laser Marker Driver & Utility	
VL-W1 series	Laser Processing Utility_VL-W1	

*1 : OS versions of which Microsoft has ended support are excluded. The CPU type, memory capacity, hard-disk space, and display function required to operate each OS should be provided in accordance with the recommendation of Microsoft.

2-2 Installation/Uninstallation Procedures

Notice

- The software license agreement is displayed on the screen during installation. You have to accept this agreement, to use the software.

Reference

- This software can be installed on a computer and more than one person may, under the supervision of the end-user, use this software installed on one computer.
- If the software user is limited to the end-user, this software can be installed on more than one computer on the condition that the software is not used simultaneously.

■ LP-GS/LP-RC/LP-RF/LP-RV/LP-M/LP-S/LP-Z/LP-400/LP-V/LP-W series

This software is installed/uninstalled at the same time by installation/uninstallation of “Laser Marker NAVI (plus/smart)”.
Please refer to “Laser Marker NAVI (plus/smart) Operation Manual” for details.

■ VL-W1 series

Set the CD-ROM “Laser Processing Utility_VL-W1” to the PC and the installation will start automatically.
Install “Laser Processing Utility_VL-W1” by following the instructions shown on the screen.
If the installation screen does not appears, double-click on following file to start installation.
[CD-ROM]\Setup\setup.exe

3. Start-up & Termination

3-1 Singularly Start-up

1. Start up the personal computer.

2. Select the program with the following procedures according to your OS version.

- In Windows 10, open the start menu and select “Panasonic-ID SUNX Laser”.
- In Windows 8.1, open the start menu and select “All Apps” - “Panasonic-ID SUNX Laser”.

3. According to the laser marker or laser processing machine model, click in the following order.

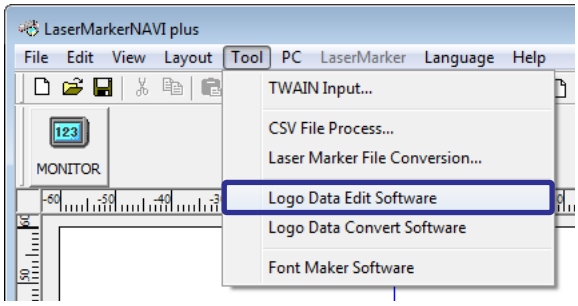
- LP-GS/LP-RC/LP-RF/LP-RV series: “Laser Marker Smart Utility” - “Logo Data Editing”
- LP-M/LP-S/LP-Z series: “Laser Marker Utility” - “Logo Data Editing”
- LP-400/LP-V/LP-W series: “Laser Marker Driver & Utility” - “Logo Data Editing”
- VL-W1 series: “Laser Processing Utility_VL-W1” - “Logo Data Editing”

3-2 Start-up from Laser Marker NAVI (plus / smart)

Applicable model: LP-GS/LP-RC/LP-RF/LP-RV/LP-M/LP-S/LP-Z/LP-400/LP-V/LP-W series

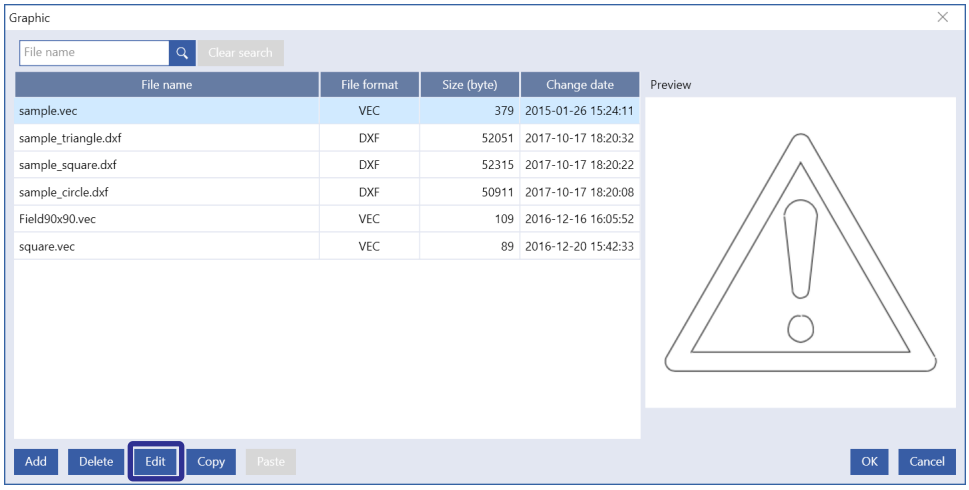
1. Start-up “Laser Marker NAVI (plus / smart).

2. For Laser Marker NAVI / Laser Marker NAVI plus:
Click on “TOOL” -> “Logo Data Edit Software” on the screen of Laser Marker NAVI (plus / smart).

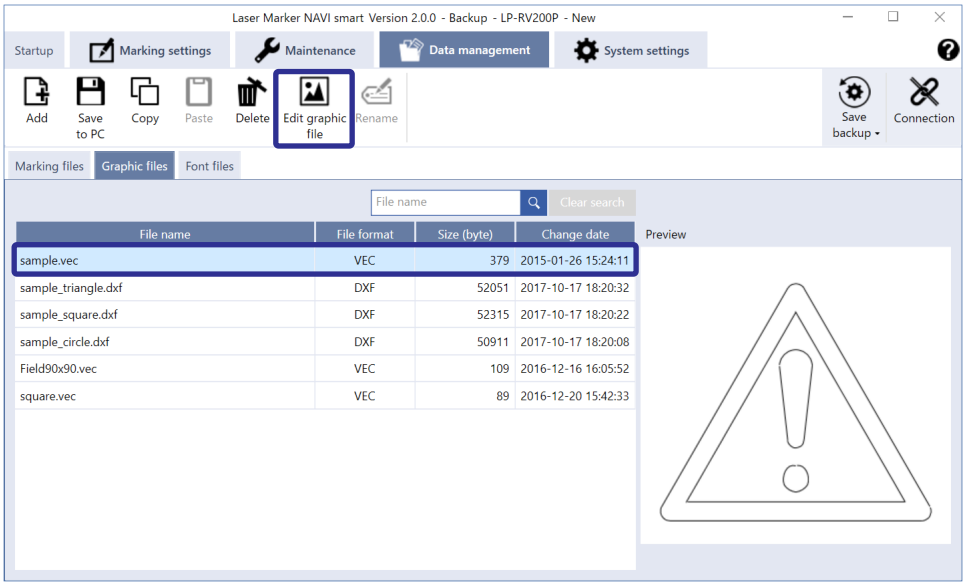


For Laser Marker NAVI smart:

- Start-up from the “Marking settings” screen:
  Double-click on the graphic object (VEC format) in the marking image editor. The “Graphic” dialog opens. In the dialog, select “Edit”. The Logo Data Editing software starts up.



- Start-up from the “Data management” screen:
  Go to the “Data management” screen and select the “Graphic files” tab. Select the VEC file that you want to edit. In the ribbon, select “Edit graphic file”. The Logo Data Editing software starts up.

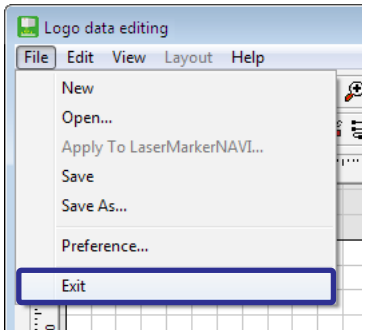


Reference

- Logo data editing software supports only the graphic file in VEC format. The other graphic files such as DXF, BMP, JPEG, or HPGL cannot be edited with this software.

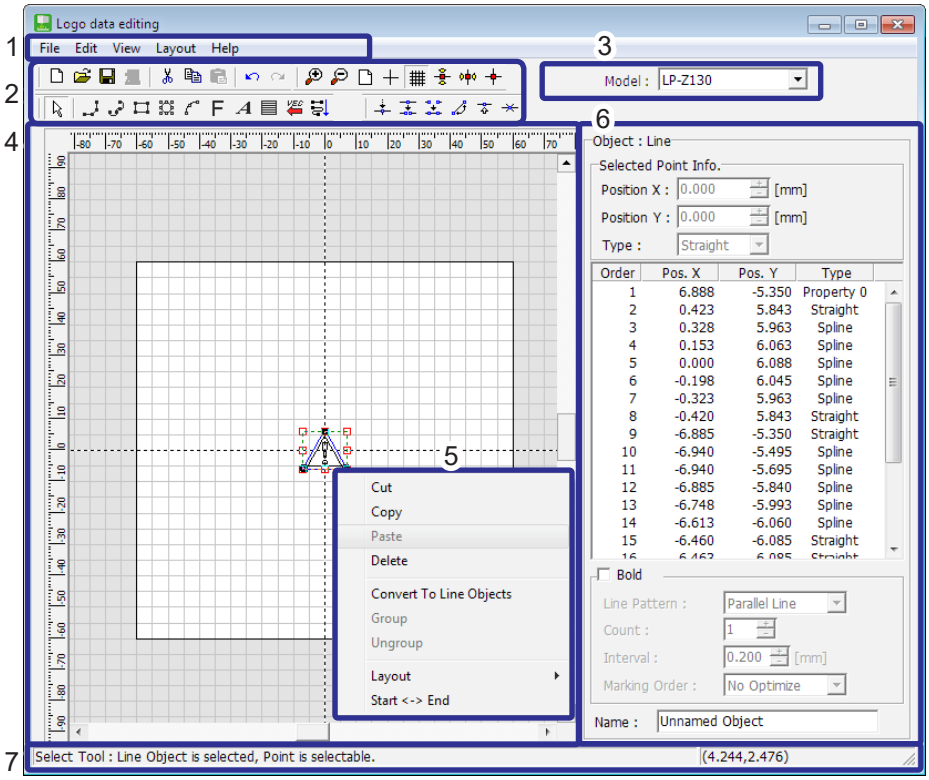
3-3 Termination

1. Select “Exit” from “File” of menu bar.



4. Screen Layout

4-1 Screen Layout of Logo Data Editing Software



	Item		Description
1.	Menu Bar	:	Refer to “4-2 Menu Function”(P.9) for the detail.
2.	Tool Bar	:	Refer to “4-3 Function of Tool Button”(P.14) for the detail.
3.	Model	:	Select laser marker/laser processing machine that the logo file is set. Depending on the selected model, marking field or processing field size may vary.

Reference

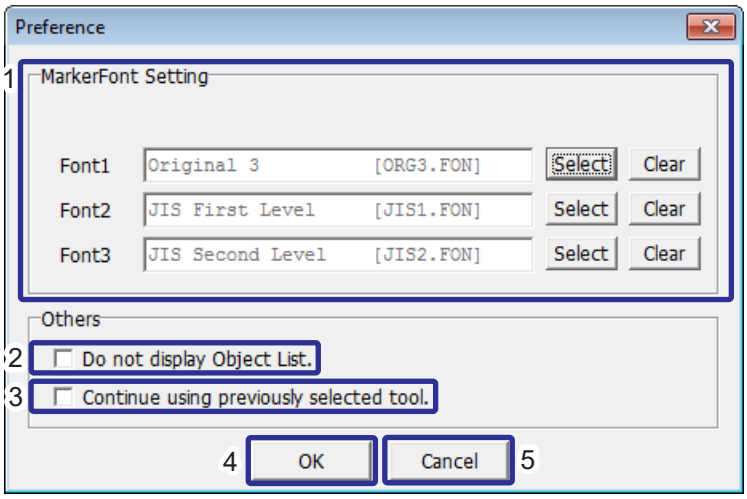
- In the selection list, some model names are shown with the shortened name as below.
  Ex. “LP-430TU” is represented as “LP-430” in this table.

4.	Image Editing Area	:	Using the editing tool, create and edit the logo file at the image editing area.
5.	Pop-up Menu	:	Pop-up menu appears by right-clicking within the image editing area. Refer to “4-4 Function of Pop-up Menu”(P.18) for the detail.
6.	Objects Information Display Area	:	Displays and specifies the selected object's condition. Refer to “4-5 Object Information Display Area”(P.19) for the detail.
7.	Status Display Bar	:	Displays the operation status and pointer position.

4-2 Menu Function

File

Function	Description
New	Creates new logo file (.vec) and logo editing file (.logo). When the software is started-up from “Laser Marker NAVI (plus / smart)”, this button will be disabled. Same as clicking on . (P.14)
Open	Opens the existing logo file (.vec), or logo editing file (.logo). Same as clicking on . (P.14) The Logo Data Editing Software can save and open two file types: one is logo file format (.vec), and another is logo editing file format (.logo). • Logo File (.vec) is the file that can be used in laser marker/laser processing machine. • Logo Editing File (.logo) is the file that can be read in Logo Data Editing software for the re-editing.
Apply To LaserMarkerNAVI *1	Updates the edited logo to Laser Marker NAVI (plus / smart). When the software is started-up from the start menu of the PC, this button will be disabled. Same as clicking on . (P.14)
Upload to VL-W1 *2 Download from VL-W1 *2	By using upload function, a logo file (.vec) opened in Logo data editing software is transferred to the laser processing machine VL-W1. Same as clicking on . (P.14) By using download function, a logo file (.vec) stored in the Laser processing machine VL-W1 is transferred to Logo data editing software. Same as clicking on . (P.14) These functions are available when VL-W1 is connected to the PC with a USB cable. Reference • Connect a PC to one Laser processing machine. It is not possible to connect two or more Laser processing machines via a USB hub, etc.
Save	Overwrite and save the logo file (.vec), or logo editing file (.logo). When the software is started-up from “Laser Marker NAVI (plus / smart)”, this button will be disabled. When newly saving the file, “Save As” dialog box appears. Same as clicking on . (P.14)
Save As...	Names and saves the newly created logo file. Can save two file types: Logo file (.vec) and Logo editing file (.logo)

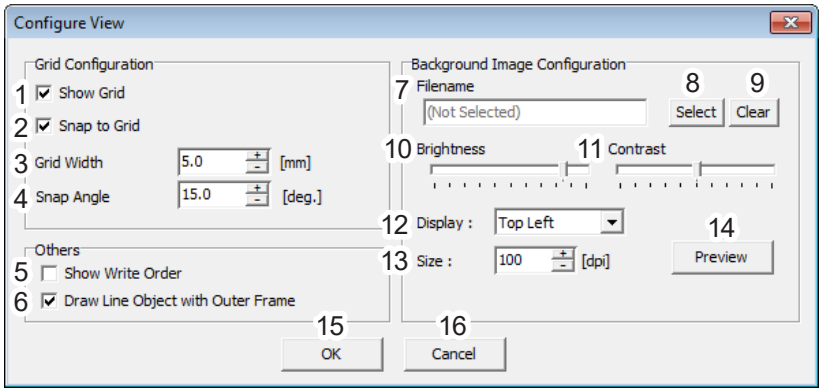
Function	Description
Preference...	 1. Specify applied font to be used at marker font (P.25) function with the following procedures. (1) Press “SELECT”. (2) Dialog box for file selection appears. Then, select a font file (.fon) . 2. Not display the objects list.: By selecting this command, the objects list is not displayed. 3. By selecting this command, selected editing tool bar status does not change. So continuous editing operation can be performed. 4. OK: Set the specified environment setting, and close the dialog box. 5. Cancel: Cancel the environment setting and close the dialog box.
Exit	Terminates the Logo Data Editing Software.

*1 : For VL-W1 series, this function is not available.
*2 : Available only for VL-W1 series.

Edit

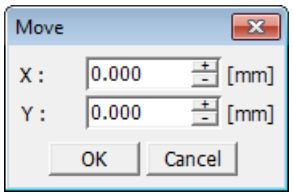
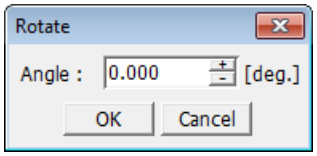
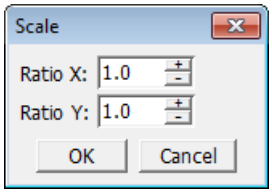
Function	Description
Undo	Cancels and reverses the most recent editing operations. Maximum 20 times of Undo actions can be repeated. Same as clicking on . (P.14)
Redo	Reverses a previous Undo command. Maximum 20 times of Undo actions can be repeated. Same as clicking on . (P.14)
Cut	Cuts the selected object and saves it on the clip board. The object can be pasted by selecting “Paste” command. Same as clicking on . (P.14)
Copy	Copy the selected object to the clip board. The object can be pasted by selecting “Paste” command. Same as clicking on . (P.14)
Paste	Pastes the object on the clip board. This command is available only when the object (data) is saved on the clip board by using the command “Cut” or “Copy”. Same as clicking on . (P.14)
Delete	Deletes the selected object.

View

Function	Description
Zoom Magnification	Select magnification of image editing area.
Show Center	Displays the center of the image. Same as clicking on . (P.15)
Show Grid	If selecting “Display”, check mark is put at the left of the command name, and Grid is displayed on the screen. Same as clicking on . (P.15)
Snap to Grid	If selecting “Snap”, check mark is put at the left of the command name. This command snap the selected object/data to the grid.
Configure View	
Grid Configuration	1. Show Grid: Grid is displayed on the image editing area by selecting this function. 2. Snap to Grid: Snaps the selected object/data to the grid. 3. Grid Width: Specifies the displayed grid interval. Setting range: 0.1[mm] to 1000.0 [mm] 4. Snap Angle: Specifies the snap angle. Setting range: 0.1 to 180.0[deg]
Others	5. Show Write Order: When selecting this function, the marking order is displayed on the image editing area. 6. Draw Line Object with Outer Frame: When selecting this function, the outer frame is displayed when the line is selected on the image editing area.

Function	Description
Background Image Configuration	“Background Image Configuration” of the image setting is a function which displays the selected “bmp file” at the background and supports the logo editing operation. 7. Filename: The background bmp file name is displayed. 8. Select: Selects the background bmp file. 9. Clear: Clears the selected background bmp file. 10. Brightness: Specifies the brightness of the background display. The righter the adjuster moves, the brighter the background brightness. 11. Contrast: Specifies the contrast of the background display. The righter the adjuster moves, the stronger the background contrast. 12. Display: Specifies the reference position of the background bmp file. Select from “Center”, “Top Left”, “Top Right”, “Bottom Left”, and “Bottom Right”. 13. Size: Specifies the size of the bmp file. Setting range: 50 to 1000.0[dpi] 14. Preview: Pressing Preview button after all settings are done displays the preview of the setting background on the image editing area. 15. OK: Set the specified environment setting, and close the dialog box. 16. Cancel: Cancel the environment setting and close the dialog box.

Layout

Function	Description
Vertical Center	Vertically centers the selected setting data on the image editing area. Same as clicking on . (P.15)
Horizontal Center	Horizontally centers the selected setting data on the image editing area. Same as clicking on . (P.15)
Center	Centers the selected setting data on the image editing area. Same as clicking on . (P.15)
Move...	Moves the selected components on the image editing area by the specified setting value. Setting range: -1000.000 to 1000.000 [mm] 
Rotate 90 degrees CW	Rotates the selected components clockwise for 90 degree by executing this command while the components are selected on the image editing area.
Rotate 90 degrees CCW	Rotates the selected components counterclockwise for 90 degree by executing this command while the components are selected on the image editing area.
Rotate...	Rotates the selected components on the image editing area for the specified setting value. Setting range: -180.000 to 180.000 [deg.] 
Scale...	Magnifies the selected components on the image editing area. Setting range: 0.1 to 10.0 [magnification] 

Help

Function	Description
User's Manual	The operation manual (PDF format) of this software is displayed.
About	Version information of this software is displayed.

4-3 Function of Tool Button

Standard Tool Button

Icon	Item		Description
	New	:	Creates new logo file (.vec) and logo editing file (.logo). When the software is started-up from “Laser Marker NAVI (plus / smart)”, this button will be disabled. Same as selecting “New File” from “File” menu. If the existing file is being edited and not saved, the dialog box for confirmation of deletion of the file appears.
	Open File	:	Opens the existing logo file (.vec), or logo editing file (.logo). Same as selecting “Open” from “File” menu. The Logo Data Editing Software can save and open two file types: one is logo file format (.vec), and another is logo editing file format (.logo). • Logo File (.vec) is the file that can be used in laser marker/laser processing machine. • Logo Editing File (.logo) is the file that can be read in Logo Data Editing software for the re-editing.
	Overwrite File	:	Overwrite and save the logo file (.vec), or logo editing file (.logo). When newly saving the file, “Save As” dialog box appears. Same as selecting “Save” from “File” menu.
	Apply To LaserMarkerNAVI *1	:	Updates the edited logo to Laser Marker NAVI (plus / smart). When the software is started-up from the start menu of the PC, this button will be disabled.
	Upload to VL-W1 *2	:	Uploads a logo file (.vec) opened in Logo data editing software to the laser processing machine VL-W1. This function is available when VL-W1 is connected to the PC with a USB cable.
	Download from VL-W1 *2	:	Downloads a logo file (.vec) stored in the Laser processing machine VL-W1 to Logo data editing software. This function is available when VL-W1 is connected to the PC with a USB cable.
	Cut	:	Cuts the selected object and saves it on the clip board. The object can be pasted by selecting “Paste” command. Same as selecting “Cut” from “Edit” menu.
	Copy	:	Copies the selected object to the clip board. The object can be pasted by selecting “Paste” command. Same as selecting “Copy” from “Edit” menu.
	Paste	:	Pastes the object on the clip board. This command is available only when the object (data) is saved on the clip board by using the command “Cut” or “Copy”. Same as selecting “Paste” from “Edit” menu.
	Undo	:	Cancels and reverses the most recent editing operations. Maximum 20 times of Undo actions can be repeated. Same as selecting “Undo” from “Edit” menu.
	Redo	:	Reverses a previous Undo command. Maximum 20 times of Undo actions can be repeated. Same as selecting “Redo” from “Edit” menu.

*1 : For VL-W1 series, this function is not available.
*2 : Available only for VL-W1 series.

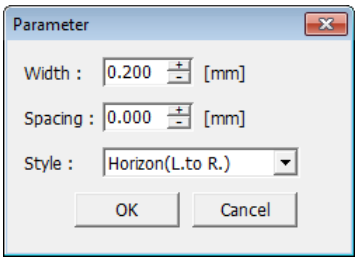
View Tool Button

Icon	Item		Description
	Zoom Out	:	Reduces the display of the image.
	Zoom In	:	Enlarge the display of the image.
	1x Zoom	:	Displays the image in its normal size.
	Show Center	:	Displays the center of the image.
	Show Grid	:	Selects visible or show hidden of the grid on the image editing area.
	Move to Vertical Center	:	Vertically centers the selected object on the image editing area.
	Move to Horizontal Center	:	Horizontally centers the selected setting data on the image editing area.
	Move to Center	:	Centers the selected setting data on the image editing area.

Edit Tool Button

Icon	Item		Description
	Select Object(s)	:	Selects object(s). Click this button, then, move the pointer to the point you want to select, and click on it. While the object is selected, one of the configuration points of the selected object can be selected by clicking on it.
	Add Line	:	Adds line. Click this button, then, click on the line insertion starting point, drag the mouse pointer to the line end point and click on the end point, and right click to add a line. For inserting continuous line, click on the line insertion starting point and drag the mouse pointer to the desired point, then, click on it to add a configuration point.
	Add Curve	:	Add curve. Click this button, then, click on the curve insertion starting line, drag the mouse pointer to the desired point and click on the point to add a configuration point, click on the curve insertion end point, and right-click on it to add a curve line.
	Add Rectangle	:	Add rectangle. Click this button, click on the rectangle insertion starting point, drag the mouse pointer to the desired point, and click on the rectangle insertion end point to add a rectangle.
	Add Circle	:	Add circle. Click this button, click on the center point of circle, drag the mouse pointer to specify its radius, then, click on it to add a circle.
	Add Arc	:	Add arc. Click this button, click on the center point of circle, drag the mouse pointer to specify its radius and arc, then, click on it to add a arc.
	Add Marker Font	:	Add font for the laser marker. Click this button, click on insertion starting point of the laser marker font. Setting of “Marker Font” becomes available on the objects information display area. For the setting procedure of marker font, refer to “4-5 Object Information Display Area” “Object Type: Marker Font”(P.25).
	Add TrueTypeFont	:	Add TrueTypeFont. Click this button, click on the insertion starting point of TrueTypeFont. Setting of “TrueTypeFont” becomes available on the objects information display area. For the setting procedure of TrueTypeFont, refer to “4-5 Object Information Display Area” “Object Type: TrueTypeFont”(P.27).

Icon	Item		Description
	Fill Closed Area	:	Hatch a closed area. By clicking on this button, “Parameter” dialog box appears. Specifies hatch condition, then, click the closed area on the image editing area, the selected closed area is hatched with the specified condition.



Width : Specifies hatch interval.
Setting range:0.010 to 10.000[mm]

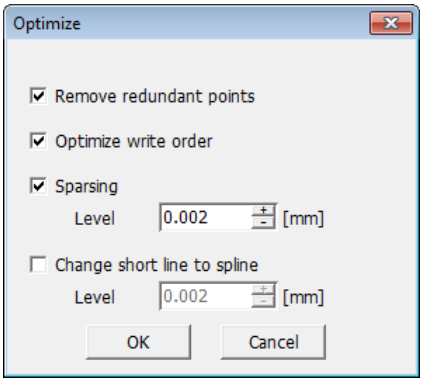
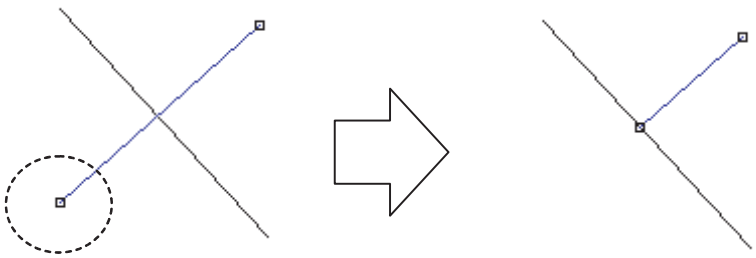
Spacing : Specifies the distance between boundary of closed area and hatch starting point.
Setting range:-10.0 to 10.0[mm]

Style : Selects hatch direction.
- Horizon (L. to R.)
- Horizon (R. to L.)
- Horizon (Bidirect. L.)
- Horizon (Bidirect. R.)
- Vertical (T. to B.)
- Vertical (B. to T.)
- Vertical (Bidirect. T.)
- Vertical (Bidirect. B.)

Reference

- For the closed area, the outline and the start / end point of the hatching lines can be out of alignment. Check the hatching line position in the image editing area and marking results. If there is misalignment, remove the outline or adjust the spacing value.
- For editing the hatch line one by one, right-click on the hatch lines and select “Convert to Line Objects”.

	Paste from Logo File	:	Pastes the logo file data to the image editing area. By clicking on this button, the “Open File” dialog appears. Specify the logo file to be pasted.

Icon	Item		Description
	Optimize	:	Optimizes the current-editing components. Select all items to be required.  • Remove redundant points: Deletes any lines that those length are “0”, and connects any connectable lines. The “connectable line” means a line that the end point of the line and the start point of the next input line are same coordinates and the properties of these two are both “0”. • Optimize the write order: Changes the write order to become a single stroke of the line. • Sparsing: When the both sides of the middle point are shorter than the specified length at a level, deletes the middle point. Level setting range: 0.001 to 2000.000 [mm] • Change short line to spline: When the line is shorter than the specified at a level, changes the middle point into a spline interpolation middle point. Level setting range: 0.001 to 2000.000 [mm]
	Trim selected line *1	:	Select a line, and click on this button, then click on the configuration point on the trim position.  Selecting the above point, these crossed lines are aligned.
	Split selected line *1	:	Select a line, and click on this button, then click on the splitting position.
	Connect selected lines *1	:	Select lines, and click on this button, then click on start/end point of the connecting line.
	Swap Start-End *1	:	Select a line, and click on this button. Start and end points are exchanged.
	Add Point *1	:	Select a line, and click on this button, then click on the configuration point on the configuration point insertion area.
	Delete Point *1	:	Select a line, and click on this button, then click on the configuration point to be deleted.

*1 : Applicable when a line is selected.

4-4 Function of Pop-up Menu

Pop-up menu appears by right-clicking on the image editing area. The following functions are available.

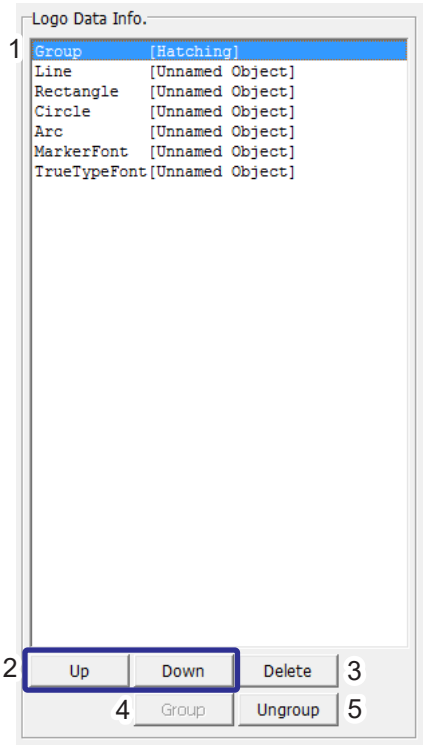
Function	Description
Cut	Cuts the selected object and saves it on the clip board.
Copy	Copies the selected object to the clip board.
Paste	Pastes the object on the clip board.
Delete	Deletes the selected object.
Convert to Line Objects	Converts the selected object into lines.
Group	Groups the selected objects.
Ungroup	Ungroups the object into original objects. This function is available only for grouped object.
Layout	• Vertical Center Vertically centers the selected setting data on the image editing area. • Horizontal Center Horizontally centers the selected object on the image editing area. • Center Centers the selected setting data on the image editing area. • Move... Moves the selected components on the image editing area by the specified setting value. For the details, refer to “4-2 Menu Function” - “Layout” - “Move...”(P.13) . • Rotate 90 degrees CW Rotates the selected components clockwise for 90 degree by executing this command while the components are selected on the image editing area. • Rotate 90 degrees CCW Rotates the selected components counterclockwise for 90 degree by executing this command while the components are selected on the image editing area. • Rotate... Rotates the selected components on the image editing area by the specified setting value. For the details, refer to “4-2 Menu Function” - “Layout” - “Rotate...”(P.13) . • Scale... Magnifies the selected components on the image editing area. For the details, refer to “4-2 Menu Function” - “Layout” - “Scale...”(P.13) .
Start <-> End	Exchanges start and end points of the selected line. This function is used only for lines.

4-5 Object Information Display Area

Display and setting the condition of selected object is performed on the object information display area.
The screen varies depending on the selected object on the image editing area.

(1) Logo Data Information

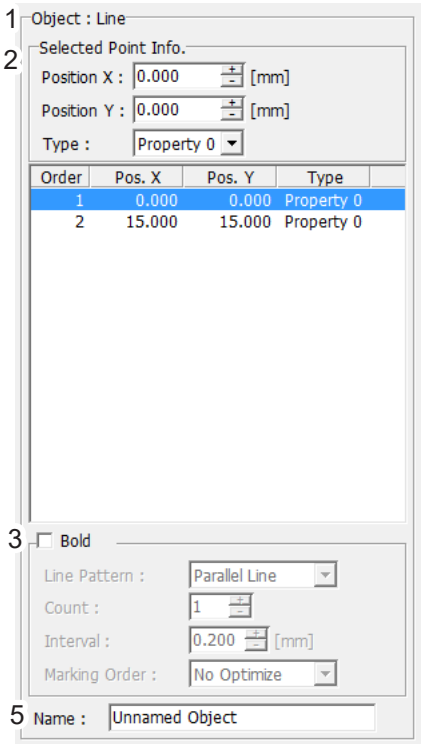
The logo data information is displayed while no object is selected. All objects which are included in the logo data are displayed.



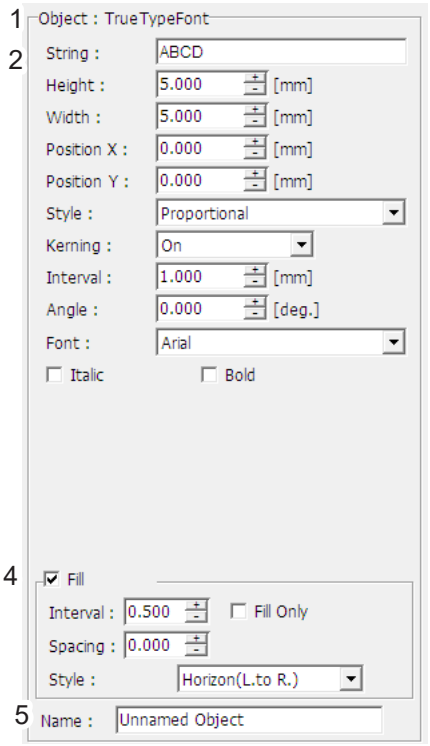
	Item		Description
1.	Object Information List	:	Displays the list of all objects which are included in the editing logo data. Object display order equals to the scanning order of the laser marker/laser processing machine.
2.	List Display Order Change button	:	Changes the object display order. Changing the order changes the scanning order of the laser marker/laser processing machine.
3.	Delete button	:	Deletes the selected object.
4.	Group	:	Group the selected objects. This function is available only when more than two objects are selected. Refer to “Object Type: Group”(P.30).
5.	Ungroup	:	Removes the group object into original objects. This function is available only for grouped object.

(2) Object Information

According to the selected object on image editing area, object information screen is displayed.
In this screen, the object properties can be edited.



Object: Line



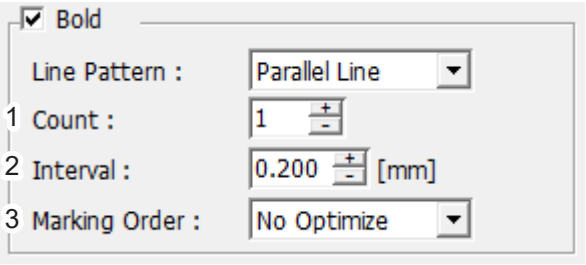
Object: TrueType Font

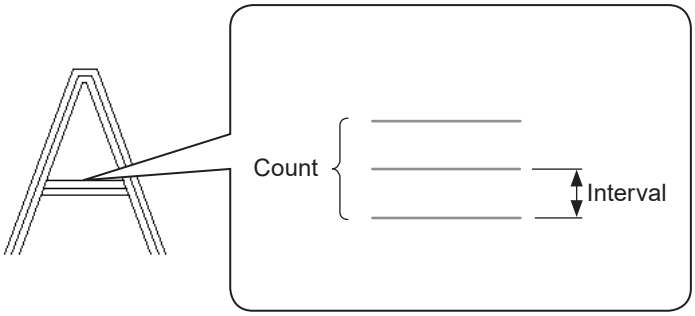
	Item		Description
1.	Object Type	:	According to the selected object, one of the following types is displayed. • Line • Circle • MarkerFont • Group • Rectangle • Arc • TrueType Font
2.	Object Property	:	The object size, coordinate, or other characteristics are shown here. Depending on the object type, the setting items vary. Refer to “(3) Setting Parameter for Each Object”(P.23) for the each object property.
3.	Bold	:	To set this function, lines of the object become bold. It is available when the object type is line, rectangle, circle, arc, marker font, or group. Refer to “Bold”(P.21) for detail.
4.	Fill	:	To set this function, the enclosed area of TrueType Font characters are filled with a hatch pattern. It is available when the object type is TrueType Font. Refer to “Object Type: TrueTypeFont”(P.27) for detail.
5.	(Object) Name	:	Specifies object name. Object name is displayed on the object information list of logo data information (“(1) Logo Data Information”(P.19)) .

Bold

Bold function makes lines of the object become thicker with parallel line or spiral curve.
This function is available when the object type is line, rectangle, circle, arc, marker font, or group.

- Bold marking with parallel line
  Making bold line with specified number of lines arranged in parallel.

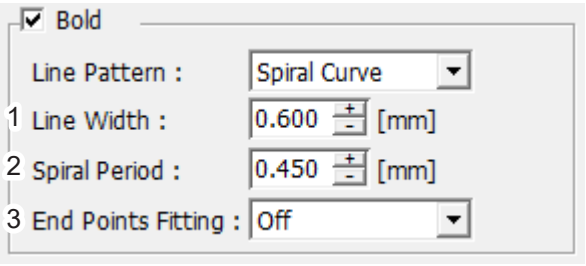


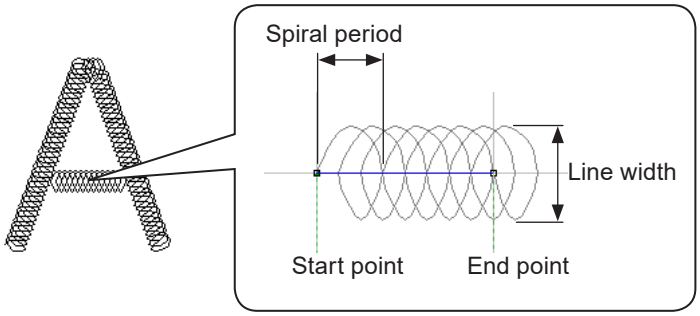


Setting parameter

	Item		Description
1.	Count	:	Specify the number of line to make into the bold lines. When the count is one, the line is a single line (no bold setting). Setting range: 1 to 20
2.	Interval	:	Specify the interval between the parallel lines. Setting range: 0.010 to 2.000 [mm]
3.	Marking Order	:	Select the marking order of the bold line. • No Optimize: Write the parallel lines with one direction. • Optimize: Optimize the writing direction of the parallel lines to switch back and forth like a single stroke.

- Bold marking with spiral curve
  Making bold line with spiral curve of specified width. In comparison with a bold line of parallel line, this method gives more energy to the marking object. For the application such as deep engraving or welding, this function is effective.





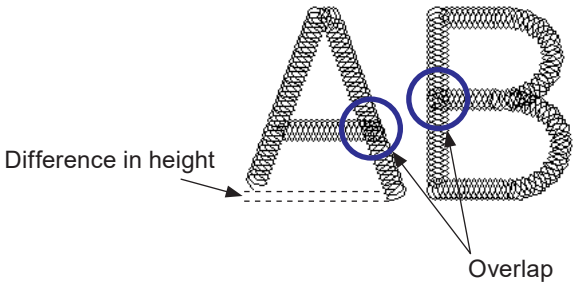
Setting parameter

	Item		Description
1.	Line Width	:	Specify the width of the bold line. Setting range: 0.010 to 4.000 [mm]
2.	Spiral Period	:	Specify the pitch of the spiral. Setting range: 0.010 to 2.000 [mm]

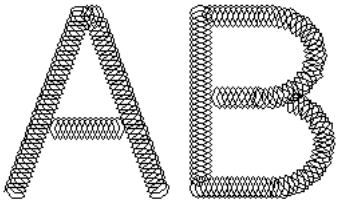
Reference

- If the object contains serial short lines, there is a case that the bold setting with spiral curve does not work properly. For such object, set smaller value for spiral period, or set sparsing function in optimize with the edit tool button.

	Item		Description
3.	End Points Fitting	:	Select the adjustment mode of end / start point length. • Off: No adjustment for start / end point of the bold line. When the point property is not specified, set OFF this parameter. • For character with spiral curve can be optimized with this function. When the object type is Marker Font, set ON this parameter. When the object type is Marker Font: • End points fitting: Off



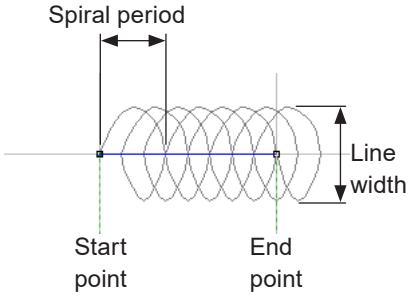
• End points fitting: On



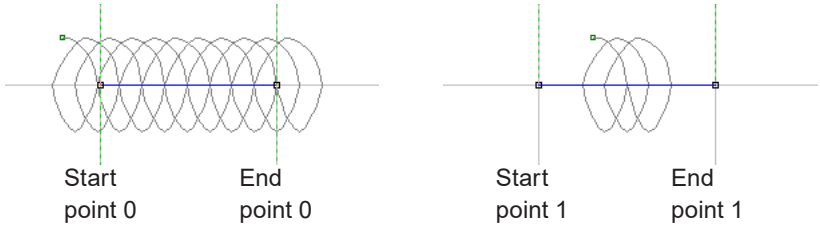
Reference

- The end points fitting function adjusts the length of the spiral curve based on the following rule:
  - Lengthen the “property 0” start point by two thirds of the spiral period.
  - Shorten the “property 1” start and end point by half of the line width.

End points fitting: Off

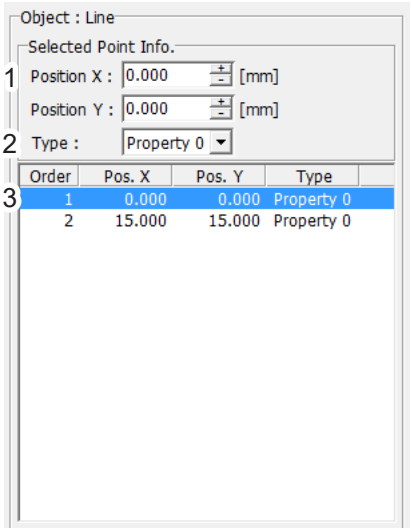


End points fitting: On



(3) Setting Parameter for Each Object

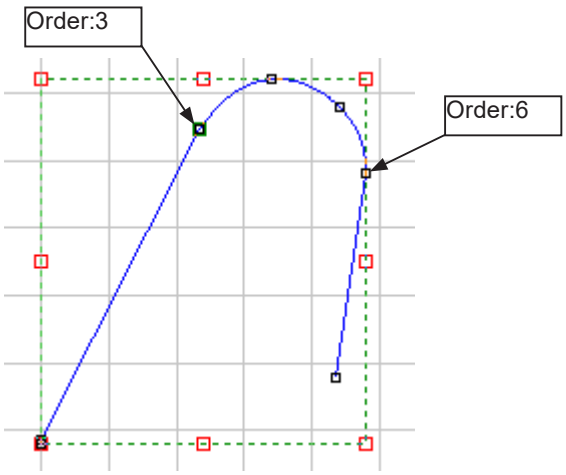
Object Type: Line



	Item		Description
1.	Position X Position Y	:	Displays/sets X, Y position of the configuration point which is selected from the configuration points list. Setting range: -1000.000 to 1000.000 [mm]
2.	Type	:	Specifies type of the configuration point which is selected from the configuration points list. Specified item is shown as follows .
	• Start or end point is selected:		Property 0: Normally select this function. Property 1: Select in case the selected point is crossed on another line. This function corrects overlapping point of two lines.
	• Center point is selected:		Straight line: Connects selected points with a straight line. Spline : Connects selected points with a spline. Make sure that the connection points are more than two in continuous.
3.	Configuration list	:	Displays order, X position, Y position, and property of selected configuration point at a line or spline.

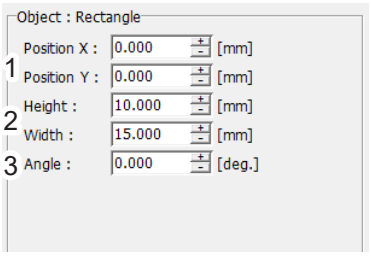
Reference

- When selecting “Spline” for property, arrange the configuration points (including back and forth of selected point) at even interval.
  Ex: Since the forth and fifth of the configuration points are set to spline, the third and sixth points should be arranged at even interval.



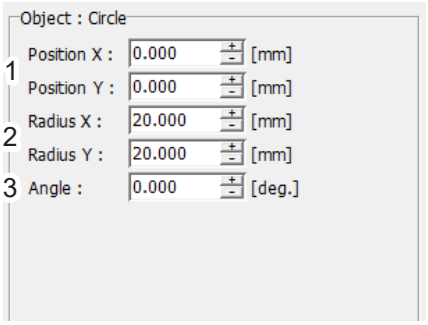
Order	Pos. X	Pos. Y	Type
1	10.000	4.000	Property 0
2	9.922	4.249	Straight
3	21.741	27.259	Straight
4	27.000	31.000	Spline
5	32.000	29.000	Spline
6	34.000	24.000	Straight
7	31.725	8.894	Property 0

Object Type: Rectangle

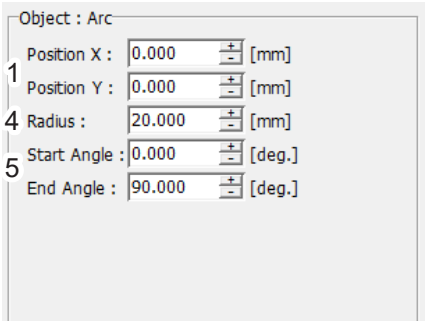


	Item		Description
1.	(Start) Position X (Start) Position Y	:	Specifies start point of X, Y of rectangle. Setting range: -1000.000 to 1000.000 [mm]
2.	Height Width	:	Specifies height, width of rectangle. Setting range: 0.001 to 2000.000 [mm]
3.	(Tilt) Angle	:	Specifies tilt angle of rectangle. Setting range: -180.000 to 180.000 [deg.]

Object Type: Circle, Arc



Object: Circle



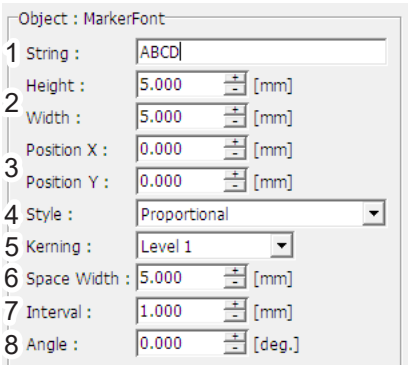
Object: Arc

	Item		Description
1.	(Center) Position X (Center) Position Y	:	Specifies center position of X, Y of circle or arc. Setting range: -1000.000 to 1000.000 [mm]
2.	Radius X Radius Y (Circle)	:	Specifies of radius in X, Y axis direction. Setting range: 0.001 to 2000.000 [mm]
3.	(Tilt) Angle (Circle)	:	Specifies of tilt angle of circle. Setting range: -180.000 to 180.000 [deg.]
4.	Radius (Arc)	:	Specifies of radius of arc. Setting range: 0.001 to 2000.000 [mm]
5.	Start Angle End Angle (Arc)	:	Specifies of start, end angle of arc. Setting range: -180.000 to 180.000 [deg.]

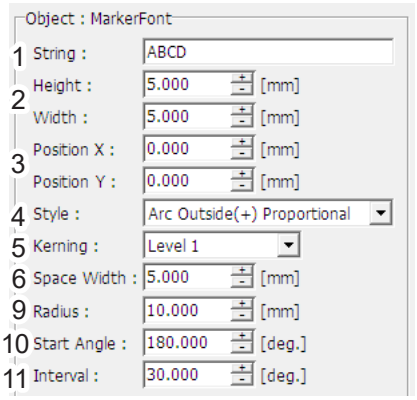
Object Type: Marker Font

Reference

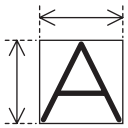
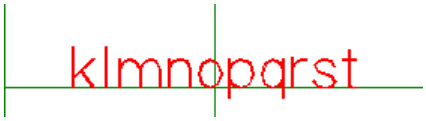
- If font does not exist (P.10) , inputted characters cannot be displayed on the image editing area.

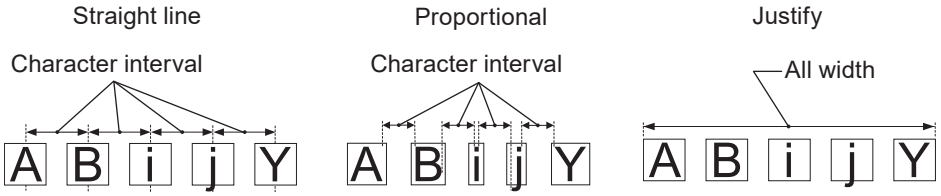
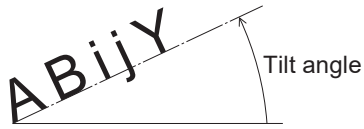
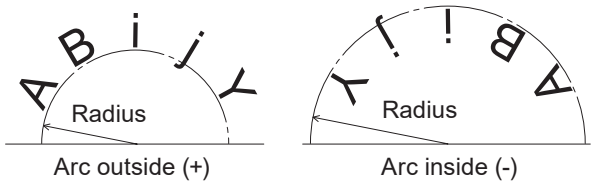
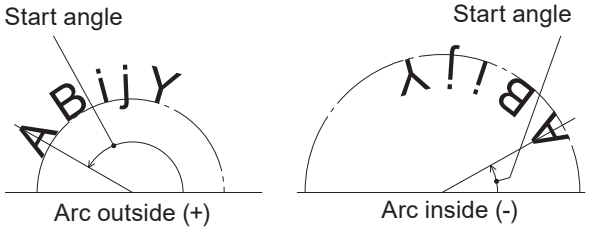
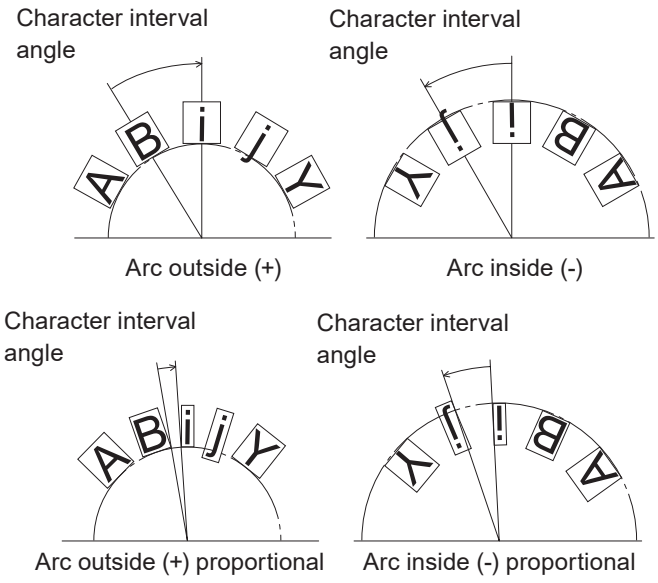


Marking Shape: Straight line, Justify, Proportional



Marking Shape: Arc(proportional)

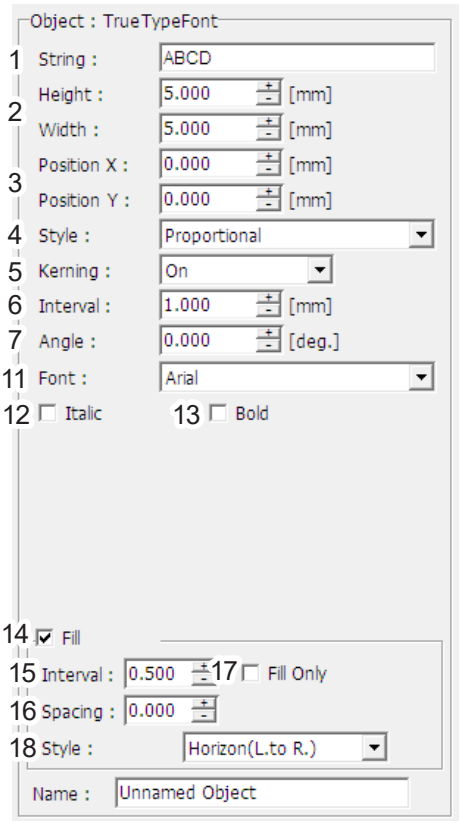
	Item		Description
1.	(Marking Character) String	:	Input marking characters. Characters are displayed in specified font (.fon) at the environment setting - font setting (P.10) .
2.	(Character) Height (Character) Width	:	Specifies the height, width of character. Setting range: 0.001 to 2000.000 [mm] Char. width Char. height 
3.	Position X Position Y	:	Specifies X, Y position of the head character on the 1st line. Setting range: -1000.000 to 1000.000 [mm]
4.	Style (Marking Shape)	:	Select the marking shape from the following type. • Straight Line • Proportional • Justify • Arc outside (+), Arc inside (-) • Arc outside (+) proportional, Arc inside (-) proportional
5.	Kerning	:	Set the level of spacing between characters. The lower the value is, the smaller the spacing is. This feature is enabled when the “style” is set to “proportional” or “Arc proportional”. • Level 1 : Minimize the origin point of the character interval with this condition. The letter-spacing of the letter “i” and “l” (small letter “L”) are recognized as “0”.  • Level 2 : Set the origin point of the character with intermediate degree between the character interval set with Level 1 and Level 3. The character width such as “i” and “l” (small letter “L”) becomes 1/4 of character width.  • Level 3 : Maximize the origin point of the character interval with this condition. The character width such as “i” and “l” (small letter “L”) becomes 5/8 of character width. 

	Item		Description
6.	Space width	:	Specifies the character width of a space. This feature is enabled when the “style” is set to “proportional” or “Arc proportional” with “kerning level 1”. Setting range: 0.001 to 2000.000 [mm]
7.	(Character) Interval / (Line) All Width	:	Specifies the character interval. This can be set when straight line, proportional, or justify is selected. Setting range: 0.000 to 2000.000 [mm] • When the style is set to “straight line” character interval indicates the distance between origins of the characters. • When the style is set to “proportional”, character interval indicates the distance between the character edge line. • When the style is set to “justify”, the characters are arranged in the specified string width equally. 
8.	(Tilt) Angle	:	Specifies tilt angle to X axis. This can be set when straight line, proportional, or justify is selected. Setting range: -180.000 to 180.000 [deg.] 
9.	Radius	:	Specifies radius of the arc. This can be set when Arc (proportional) is selected. Setting range: 0.001 to 2000.000 [mm] 
10.	Start Angle	:	Specifies angle at the center position. This can be set when Arc (proportional) is selected. Setting range: -180.000 to 180.000 [deg.] 
11.	(Character) Interval (Angle)	:	Specifies angle between adjacent characters. This can be set when Arc (proportional) is selected. Setting range: -180.000 to 180.000 [deg.] • When the style is set to “Arc”, this interval indicates the angle between origins of the characters. • When the style is set to “Arc proportional”, this interval indicates the angle between the character edge line. 

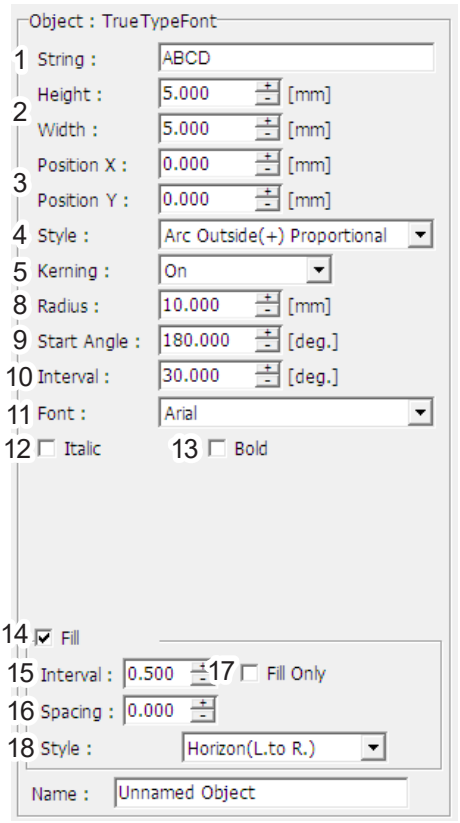
Object Type: TrueTypeFont

Reference

- If font is not TrueTypeFont or does not exist, inputted characters cannot be displayed on the image editing area.
- When a non-Japanese compliant font such as Arial, Century, of Tahoma is selected, Japanese original characters such as KANJI or HIRAGANA cannot be displayed on the image editing area.

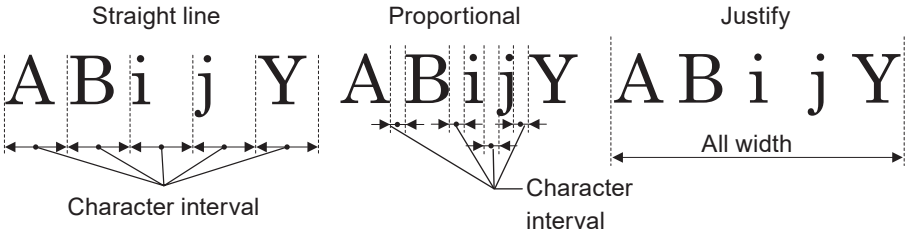
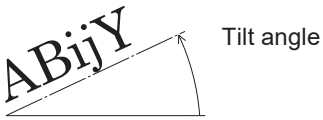
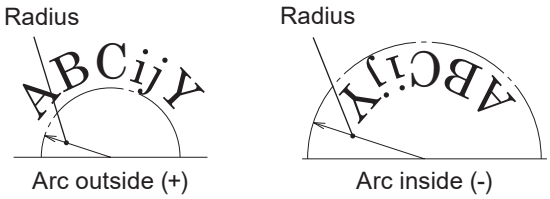
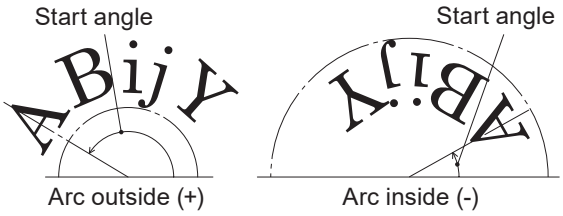
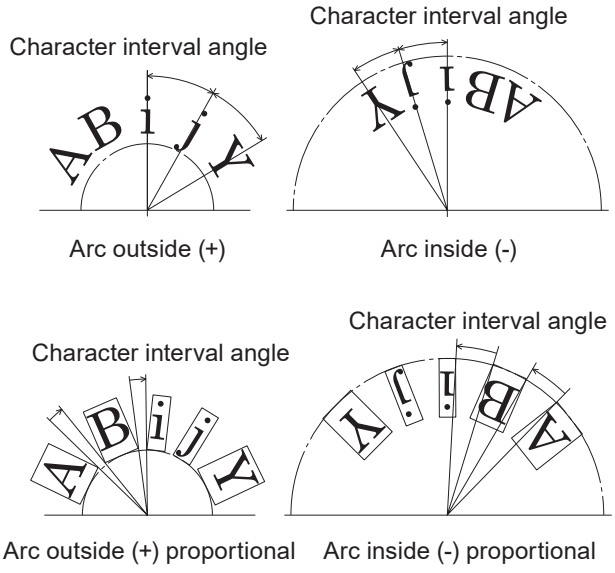


Marking Shape: Straight line, Justify, proportional



Marking Shape: Arc (proportional)

	Item		Description
1.	(Marking Character) String	:	Input marking characters. Characters are displayed in specified TrueTypeFont.
2.	(Character) Height (Character) Width	:	Specifies the height, width of character. Setting range: 0.001 to 2000.000 [mm]
3.	Position X Position Y	:	Specifies X, Y position of the head character on the 1st line. Setting range: -1000.000 to 1000.000 [mm]
4.	Style (Marking Shape)	:	Selects the marking shape from the following type. • Straight Line • Proportional • Justify • Arc outside (+), Arc inside (-) • Arc outside (+) proportional, Arc inside (-) proportional
5.	Kerning	:	When kerning is set “ON”, the balance of the character interval is automatically adjusted according to the character combination. This feature is enabled when the “style” is set to “proportional” or “Arc proportional”.

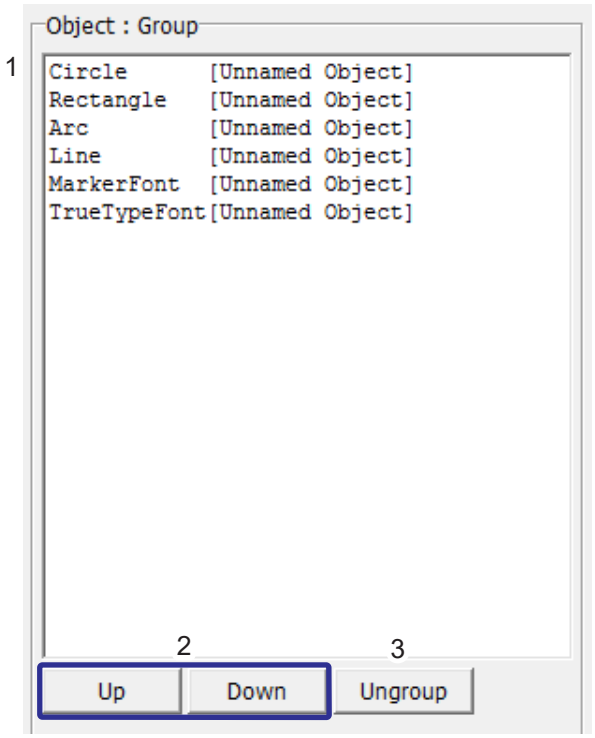
	Item		Description
6.	(Character) Interval / (Line) All Width	:	Specifies the character interval. This can be set when straight line, proportional, or justify is selected. Setting range: 0.000 to 2000.000 [mm] • When the style is set to “straight line” character interval indicates the distance between origins of the characters. • When the style is set to “proportional”, character interval indicates the distance between the character edge line. • When the style is set to “justify”, the characters are arranged in the specified string width equally. 
7.	(Tilt) Angle	:	Specifies tilt angle to X axis. This can be set when straight line, proportional, or justify is selected. Setting range: -180.000 to 180.000 [deg.] 
8.	Radius	:	Specifies radius of the arc. This can be set when Arc (proportional) is selected. Setting range: 0.001 to 2000.000 [mm] 
9.	Start Angle	:	Specifies angle at the center position. This can be set when Arc (proportional) is selected. Setting range: -180.000 to 180.000 [deg.] 
10.	(Character) Interval (Angle)	:	Specifies angle between adjacent characters. This can be set when Arc (proportional) is selected. Setting range: -180.000 to 180.000 [deg.] • When the style is set to “Arc”, this interval indicates the angle between origins of the characters. • When the style is set to “Arc proportional”, this interval indicates the angle between the character edge line. 

	Item		Description
11.	Font	:	Select TrueTypeFont from the list box.
12.	Italic	:	Select here when marking italic character.
13.	Bold	:	Select here when marking bold character.
14.	Fill	:	Select here when filling selected enclosed area with a hatch pattern.
15.	Interval	:	Specifies fill interval. Setting range: 0.010 to 10.000 [mm]
16.	Spacing	:	Specifies distance between outer frame and fill start point. Setting range: -10.000 to 10.000 [mm]
17.	Fill Only	:	Not display outer frame. Only fill is selected.
18.	Style (Fill Direction)	:	Selects fill direction. Select from the following pattern. • Horizon (L. to R.) • Horizon (R. to L.) • Horizon (Bidirect. L.) • Horizon (Bidirect. R.) • Vertical (T. to B.) • Vertical (B. to T.) • Vertical (Bidirect. T.) • Vertical (Bidirect. B.)

Reference

- For the closed area, the outline and the start / end point of the hatching lines can be out of alignment. Check the hatching line position in the image editing area and marking results. If there is misalignment, remove the outline or adjust the spacing value.

Object Type: Group



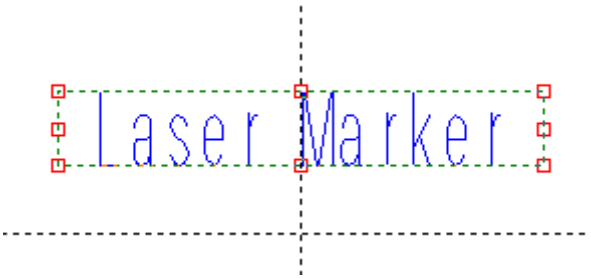
	Item		Description
1.	Object Information List	:	Displays the list of all objects which are included in the editing group. Object display order equals to the scanning order of the laser marker/laser processing machine.
2.	List Display Order Change button	:	Changes the object display order. Changing the order changes the scanning order of the laser marker/laser processing machine.
3.	Ungroup	:	Removes the group object into original objects. This function is available only for grouped object.

4-6 Image Editing Area

Logo image is displayed on the image editing area. By the mouse operation, object can be moved, enlarged, and downsized.

(1) Selection and Editing of Object

By clicking on the line of object, the object is selected.
The selected object is displayed in blue color, and its outer frame (green dot line) and snap (red square) are also displayed.
By dragging the upper right snap, the object is rotated. By dragging the other snaps, enlargement and downsizing of the object can be performed.



However, in the following cases, snap is not displayed, and only moving object is available.

- Group including any objects other than line.
- Marker font or TrueTypeFont is selected, and its marking shape is Arc.
- Line that contains only two configuration points.

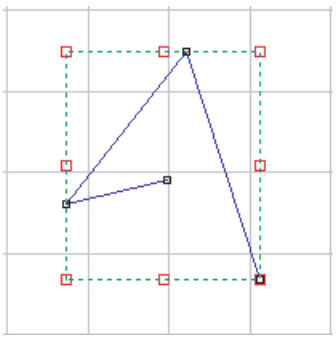
Reference

- To select the overlapped object, follow the below described procedures:
  (1) Click on no object displayed area in the image editing area.
  (2) Object information list (P.19) is displayed on the object information display area.
  (3) Double-click on the object you wish to select.

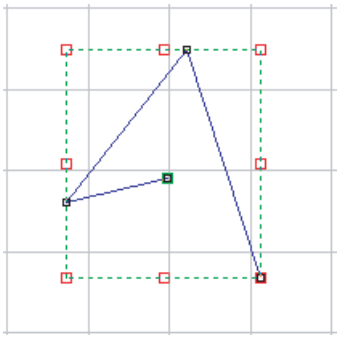
(2) Selection and Editing of Configuration Point

Editing configuration point is available only when line is selected. In other cases (other than line is selected), before editing configuration point, right-click on the selected object, and select “Convert to Line Objects”(P.18).
The following is the procedure of moving configuration point.

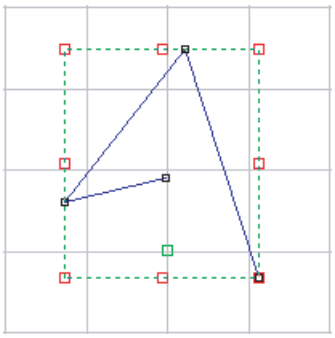
1. By selecting line, configuration points are displayed in black squares.



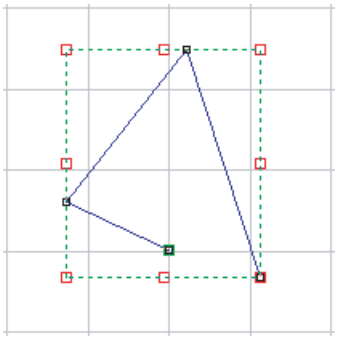
2. By clicking on the configuration point (black square), the configuration points are enclosed by green frame.



3. Drag the selected configuration point above. (Green frame is moved.)



4. The configuration point is moved to the above drag stopped position.



Reference

- If snap and configuration point exist on same position, the snap is set to priority for selection. If you want to move the configuration point, select the configuration point from the list on the object information display area at first. Then, drag the selected configuration point to move.

5. Troubleshooting

Message	Measure
Cannot fill hatch. Confirm hatch parameter.	Check the hatch pattern: • Too narrow hatch interval is set. • Too large margin is set. If the above is observed, correct it.
Fill has been canceled.	The width or height of the filling area is too small relative to the whole graphic size. For some graphics, it can be solved by separating the filling part as another graphic file from the original graphic.
Cannot move/deform the selected object.	Correct the following type of the wrong parameters. • Width or height of the object was set to negative value. • Line length is less than specified minimum value.
Selected object is moved outside of image editing area.	Move the object inside the image editing area.
Object cannot be placed within the image editing area.	Adjust the setting value to make the object to be inside of the image editing area.
No object for paste	Before performing paste, copy or cut the object you want to paste.
Cannot connect the same line.	• Click on the start or end point of the destination line. • Confirm that line is selected for connection. (Rectangle, circle, marker font cannot be connected.)
Cannot split Line Object on the edge.	Configuration point (center point) is needed for splitting line. Add a configuration point.
Cannot find the Point for split.	
Click on the line.	Select the line to add a configuration. Then, click on the selected line properly.
VEC file has no data.	Select the logo file (VEC) that contains configuration points.
The logo file is not applicable. Use the new version Logo Data Editing Software.	Use files applicable for the logo data editing software.
	Use new version software.
Cannot save because data exists outside of the marking area.	Delete data outside of the marking field or processing field, and save again.
Cannot save file. Configuration points excessed the maximum specified quantity.	Delete object to be within the specification, and save again.
Cannot find trim position.	Execute the trimming command where the crossed lines exist.
Failed to create part(s).	Input valid parameter for all compositions so as to create part(s) within marking field or processing field.
Existed overlapped segment. Cannot thicken the segment.	Including the completely overlapped segment (having completely same coordinate value) cannot thicken the segment. Correct the coordinate value so as not to overlap the segment.
Existed “length 0” segment (overlapped component points). Cannot thicken segment.	Move either component (connected) point of the segment so as to lengthen the segment, or delete redundant point(s) existed on the segment.
Existed the sharp angle within the segment. Cannot thicken segment.	The segment having too sharp angle can not thicken. Add the component point to the segment so as to make the angle wider.
Cannot thicken the grouped segment. Existed unsupported part for the thickening.	Delete the part includes the unsupported grouped component for the thickening such as TrueTypeFont, etc.

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