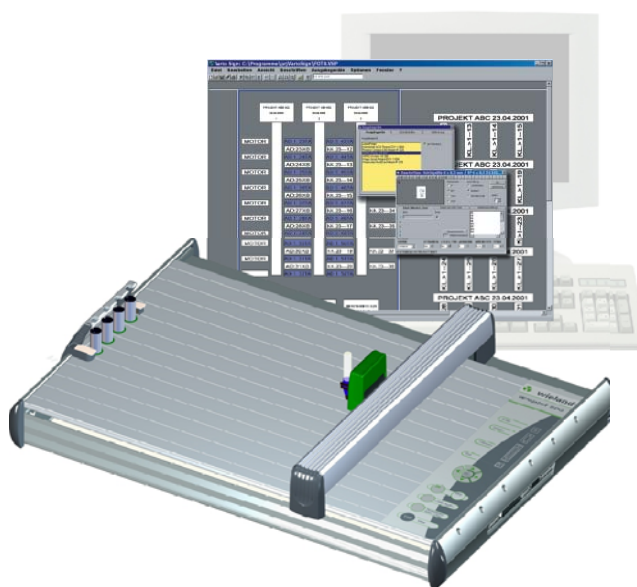


 wieland

# *wiemarc 4.3*



## Guide to Using **wiemarc 4.3** Labeling Software



## Guide to Using **wiemarc 4.3** Labeling Software

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## 1. System Requirements

Pentium II PC (200 MHz or higher)

64 MB RAM

CD-ROM drive

VGA graphics adapter and monitor (256 colors, resolution 640 x 480)

Operating system: Windows 98, ME, NT, 2000, XP, Vista (32bit)

Mouse

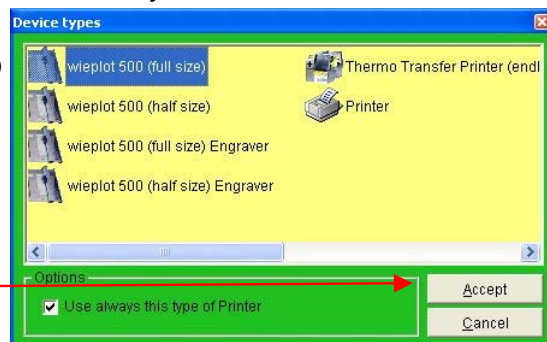
## 2. Software Installation

First close all other applications. Insert the “**wiemarc**” CD into the CD-ROM drive of your PC. Installation will start automatically. Please follow the on-screen instructions. If the auto-start feature has been switched off on your PC, please start the set-up program by double-clicking.

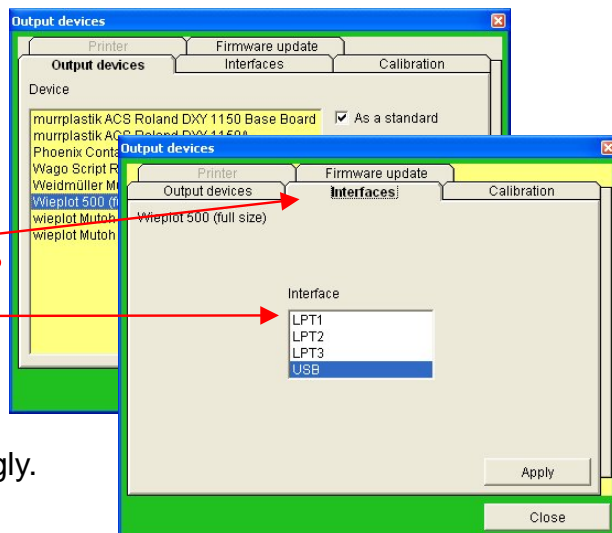
When the installation is complete, connect the plotter to the PC with the parallel interface cable or USB -cable and switch the plotter on.

## 3. Selecting the Output Device and Changing Settings

Now start the **wiemarc** program by a double click on the symbol located on the desktop. Before working with the software, you must first install the plotter you intend to use. To do this, select the output device in the window. As example, if you are using the **wieplot 500** select the output device and check the clickbox as **Use always this type of Printer**. You will not be asked any more in the future. With the button **Accept** the setting will be saved and the window be closed.

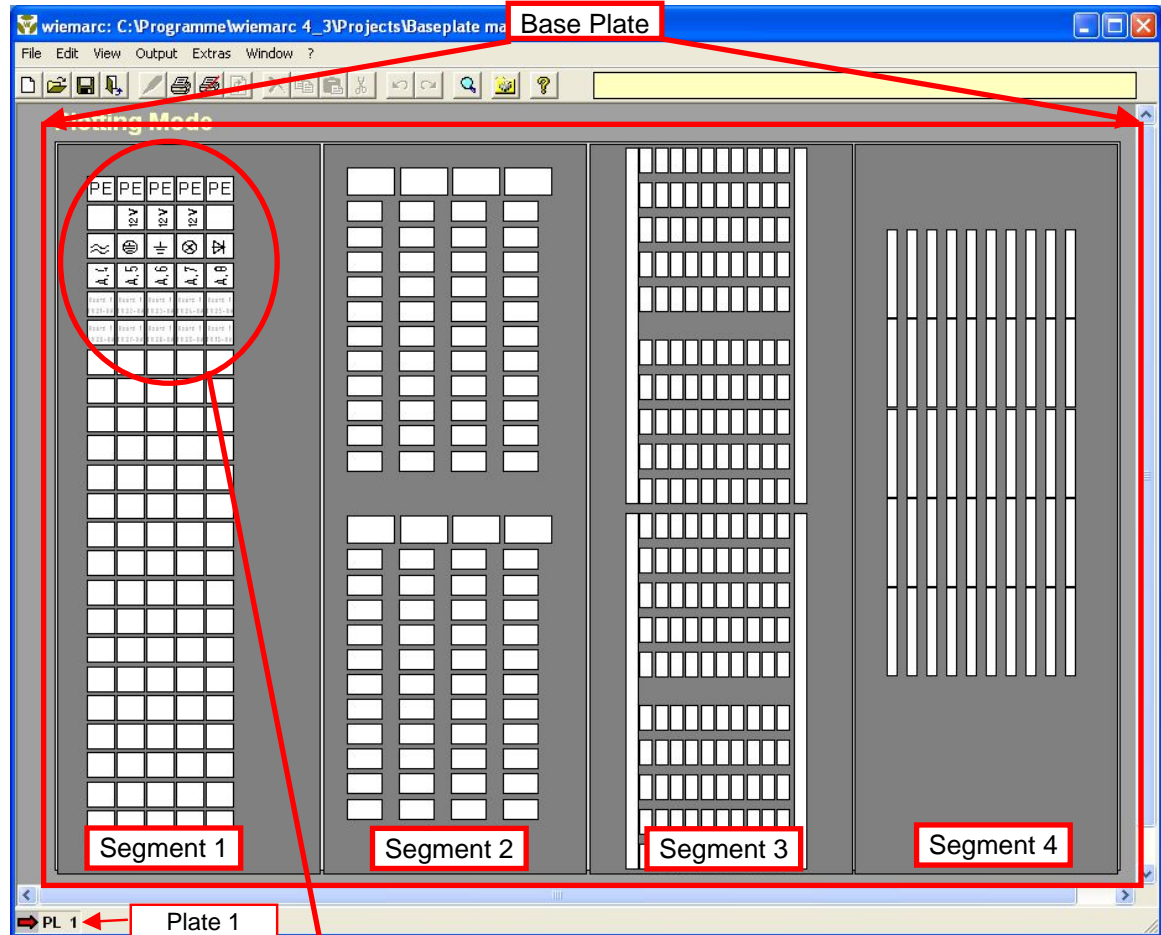


If you like to connect another output device in the future, like the **wieplot 500** (half size) Engraver, endless Thermal-Transfer Printer or an Office Printer you can always get back to the window from the Menu bar > **File** and choose > **New**. The **wieplot 500** is default set as standard output device, connected through the USB. In addition, the **wieplot 500** has a parallel port, to be used with the **wiemarc**. For using you need to change the output to parallel, go to the main menu bar > **Output** > **Output device** and check the **Interface** tab. Confirm **LPT1** as the new interface port and click on **Apply**.



Connect the parallel cable on both ends and switch on the **wieplot 500**, the software will recognize the plotter accordingly.

## 4. Definitions



Example of  
Label Sequences  
displayed with  
Zoom Function

PE	PE	PE	PE	PE
	12V	12V	12V	
⌘	⊕	⊖	⊗	⊘
A, 4	A, 5	A, 6	A, 7	A, 8
Board 1 TR.01-BA	Board 1 TR.02-BA	Board 1 TR.03-BA	Board 1 TR.04-BA	Board 1 TR.05-BA
Board 1 TR.06-BA	Board 1 TR.07-BA	Board 1 TR.08-BA	Board 1 TR.09-BA	Board 1 TR.10-BA

Zoom Function

click on Zoom Icon Zoom on  
position the mouse and click the **right** mouse button Zoom in (enlarge)  
position the mouse and click the **left** mouse button Zoom out (reduce)  
click on Zoom Icon Zoom off

## 5. Getting Used to the Software

Our prime concern when developing this software was that users should be able to carry out all labeling jobs quickly and easily.

For this reason, every task follows the same basic pattern:

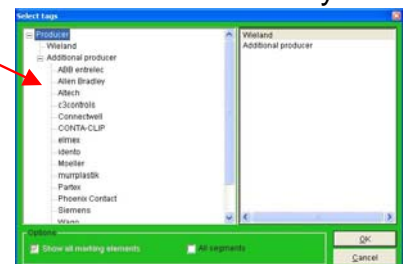
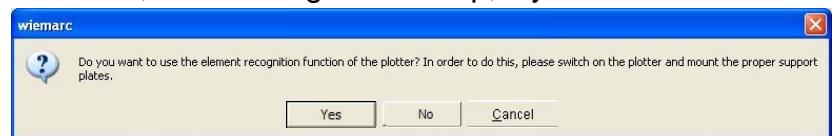
### 5.1 Create a new Project.

The **wieplot 500** has an integrated support plate recognition system included. The software **wiemarc** reads the code of each field, starting with the left support plate. Assuming the **wieplot 500** is turned on, the communication cable is connected and support plates are placed on the plotter itself, the software pre-selects the marker cards already. If you click on the icon **New Project** of the menu bar, or select > **File** and > **New** from the main menu, the message comes up, if you like to use the recognition system and read the support plates.

After you confirm with **Yes**, the support plates are

recognized and shown on the screen together with the available marker cards. If you confirm with **No**, all available elements and **manufacturer**

are presented in the list to be selected from. After changing the support plate on the plotter or after deleting a segment within the software, you could click on the icon **Rescan support plates** and read the new support plates.



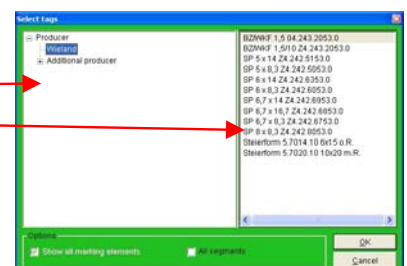
### 5.2 Open an existing Project

If you click on the icon **Open Project** of the menu bar, or select > **File** and > **Open** from the main menu, existing projects could be loaded. You are able to work with up to 10 different projects at the same time and could use all the Copy and Paste functions between them.

### 5.3 Selecting tags / marking elements

After you double click on one of the segments on the screen, a list of the available marker you can work with and select from comes up. Just choose the type you have placed on the support plate and the selection will be presented on the screen.

If the no. of marker presented are not sufficient in order to complete your job on one base plate (holding up to 4 support plates), new base plates with respective support plates could be added upon your convenience.



In order to do so, please select > Edit and > Add Plate from the main menu or use the right mouse button.

A new blank base plate comes up to be used with more segments. Up to 16 base plates could be used in one project (max. 10 projects in one file).

To move from one base plate to the other just click on their names in the lower left corner. Base plates could **GP 1** ➔ **Rack 1** **GP 3** also be renamed just with a double click, or moved in the position to each other with drag and drop.

Labelling	Ctrl+L
Undo: not possible	
Redo: not possible	
Copy marking (only tags with text)	Ctrl+C
Copy marking (including tags without text)	
Paste marking	Ctrl+V
Cut marking	Ctrl+X
Delete marking	Del
<b>Tags add</b>	
Copy segment	
Insert segment	
Delete segment	
<b>Add plate</b>	
Copy plate	
Paste plate	
Delete plate	
Select all	

#### 5.4 Marking the selected tags / marking elements

Double-click the tag or element where the labeling process is to begin.

This opens the labeling dialog box, which contains all the setting options. In order to open the edit window, please click on the first tag to start with, use the right mouse button and choose > Labelling from the menu or start typing a character on the keyboard (check under > Option from the menu first). The exact description of the selected tag and the number of tags available both appear in the top line of the dialog box.

An outline of the selected marking element is shown in the top third of the box.

Angle and text alignment options are found next to this diagram.

The number of lines per tag can also be specified here.

Note that the program will only allow options that are appropriate for the selected element.

The various tabs for different methods of data input and import appear in the middle of the box. This is where you can enter all the data and text for one-time, multiple, and serial marking, and files to be imported from different programs, as well as text for custom labeling (for example, row labeling).

The font, font width, font size, underline, line spacing, tip width of the plotter pen, and plotting speed settings can be adjusted in the lower part of the box.



The values match the chosen marking element, but can be altered within reasonable limits. A warning message is displayed if text length exceeds the size of the tag.

This enables you to adjust the font, font size or font width so that the text fits onto the tag or element.

From a certain font height upward, only capital letters and certain special characters are allowed in order to make best use of the available labeling area.

In such cases the following warning is displayed:

**> Only upper case letters, special characters and symbols are allowed <**

Characters as "g, j, y, Ä, Ö, Ü" are not allowed in order to make best use of the labeling area.



#### —> Restore Default values:

If you change parameters (font types, text height, line numbers etc.) for each element the data will be stored in a separate file. If you choose the element again, you will find the previously used parameter settings.

Click **Default values**, if you want to restore the original settings.



*Note:* After updating the software the user's specific parameters remain valid.

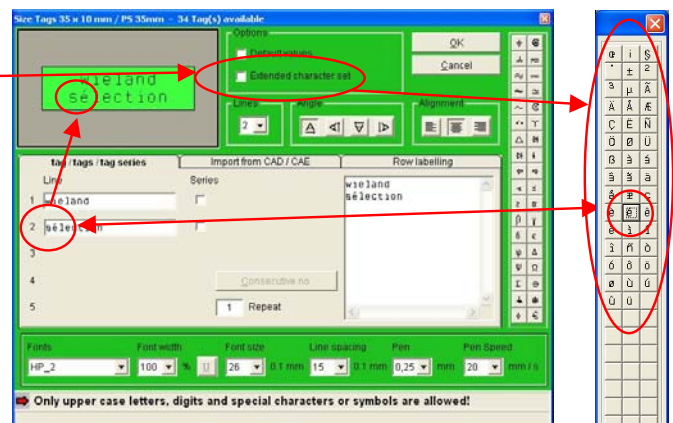
#### —> Extended character set

Country specific characters are directly available by selecting

**extended character set**, the labeling for other countries is easy to achieve.

Selecting the option, a new window opens up at the right side with the provided characters.

Without looking into the windows character set for characters not available through the keyboard directly, country specific characters can be selected with a click.

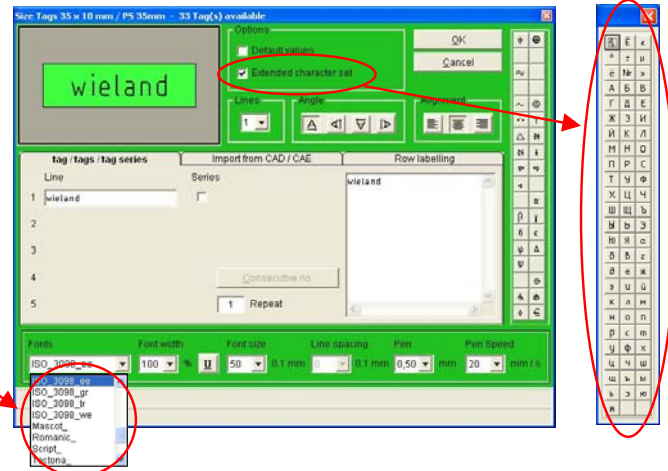




Country specific characters will be provided according to the selected typeface, e.g. if you choose the font **ISO\_3098\_ee**, characters for eastern European countries are available.

Additional character sets such as Cyrillic, Baltic, Turkey, Greek, will be available by selecting the spec. font under **ISO\_3089**.

Also ornate fonts can be selected, specifically to be used for engraving.



## 5.5 One-time, multiple and serial modes

By choosing the tab for one-time, multiple, and serial modes, corresponding sequences of text, numbers, characters and symbols can be entered. At the right-hand corner of the marking window you will find a large choice of symbols which can be selected by a click.

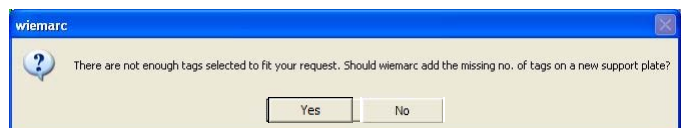
The number of lines opened for editing corresponds to the number of lines set per tag. Text can now be entered. The number of tags to be labeled with the same text should be entered in the **Repeat** field.

The data input is shown in the **preview window**.



If the number of repetitions exceeds the number of tags available, the following warning is displayed: **> Not enough tags selected to fit your request <**, and the number of repetitions must either be corrected or more tags must be provided for labeling by confirming with **Yes**.

Clicking **OK** transfers the labeling to the tags.



If sequential numbering is to be carried out, after selecting the number of lines you must specify the line in which the sequential numbering is to appear. To allow this, the ~~Series~~ check box to the right of the line is activated.

Checking ☒ this box then activates the consecutive no. button and prevents input in the editing field. Clicking the **Consecutive no.** button opens a further window, allowing serial marking to be entered.

Here the start value, final value, preceding text (prefix), following text (suffix), step size, counting method, and number of repetitions can be entered, the counting method can be chosen to be in ascending order.

The count could be chosen in decreasing nos. (start value higher than final value) or increasing nos. (start value lower than final value).

The left part of the window is separated in two parts, primary serial number and secondary serial number, in order to create two interlinked consecutive numberings, with free chosen character for separation. The example shows as primary series TP-1 to 5 and the secondary series 10 to 15 –HA, with a separation character of --, TP- is the preceding text (prefix) and –HA the following text (suffix).

If the series labeling job specified exceeds the number of tags available, the following warning is displayed: **> Not enough tags marked for labeling <.**

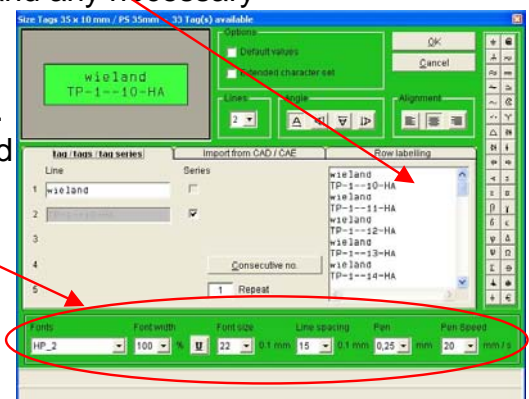
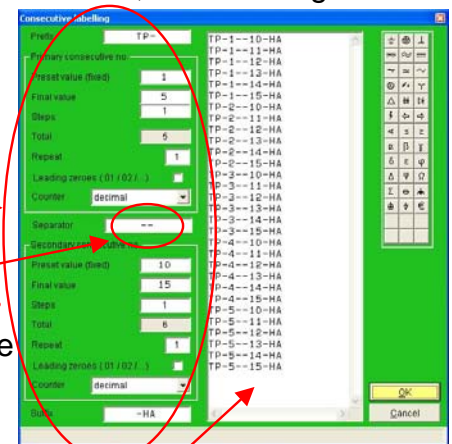
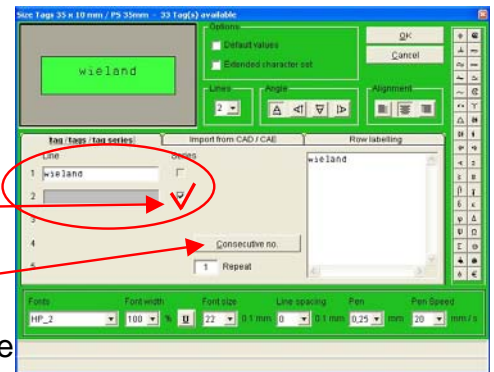
The number of tags must either be reduced for example, by changing the final value or more tags must be provided for labeling.

The sequences entered are listed in the preview window.

Clicking **OK** returns you to the previous window, and any necessary parameter changes can be made there.

Clicking **OK** again transfers the labeling to the tags. You can edit the data in the preview window. It is possible to delete texts, insert empty rows and special symbols or other texts.

*Note:* If you want to insert more data in series, sequences cannot be shown and edited in the series modus.



## 5.6 Importing files

After choosing the Import file tab, data can be imported from other files.

Data can be imported from other CAD/CAE programs, text files, or spreadsheet programs.

An efficient import function is available to allow extraction of the required data from a range of file formats.

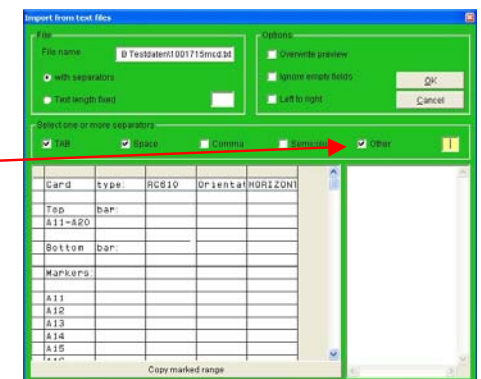
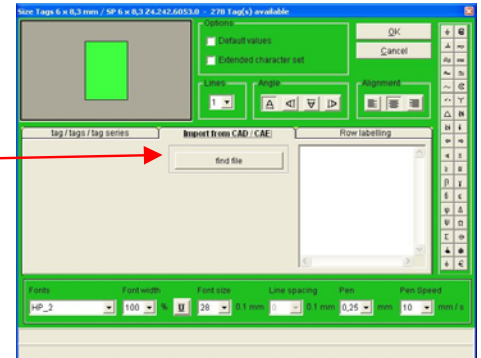
Clicking the **Browse** button makes it possible to locate the file to be imported. Click to select the file name, and then click **Open** to access the file for importing.

A window will now open displaying the data for importing, in table format.

You can choose the separator to be “tab”, “space”, “comma” or “semicolon” as single or in combination. In addition further character can be defined by clicking the box **Other** and entered in the next field, e.g. “B”, enter “B” in the field and confirm with **OK**.

Another possibility for separating imported files is the no. of character.

Select the click box **Text length fixed** and enter the no. of character in the empty field, clicking **OK** activates the new separator.



If you want to import **wiemarc**, **Excel**, **Access** or **E-Plan** files, the program will automatically recognize the format and open the first worksheet for importing. This is the default setting. You can also select other sheets from the file.

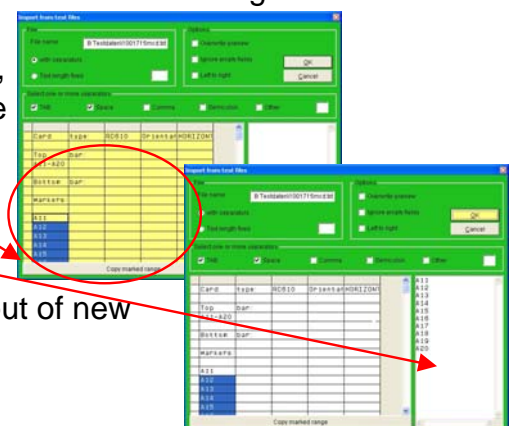
You can now copy either part or the entire table and use it for marking.

Please follow these steps:

Use the mouse to select individual or multiple cells, individual or multiple columns, individual or multiple rows, and click the **Copy marked range** button.

The data will be inserted into the editing field, and you can check whether the copied data is correct.

It is possible to edit the data in this window, like input of new data, delete data, correct data and copy data.



The following functions exist to aid data import:

### ■ Overwrite existing data

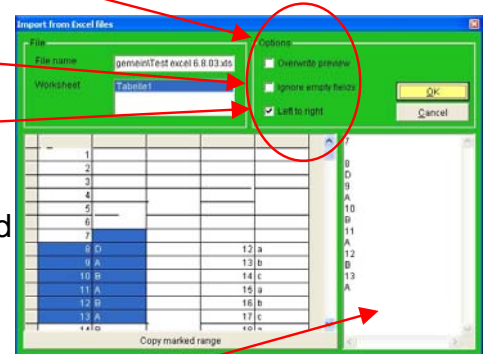
If you enable this function, newly copied data will automatically overwrite previously copied data. If this function has not been enabled, the data will be appended to the existing data.

### ■ Ignore null values

If this function is enabled, cells containing no data will not be imported.

### ■ Left → Right

This function allows the import sequence to be changed. In the default setting, the data is transferred by column from top to bottom. If the left-to-right function is enabled, the data is transferred by row from left to right.



Data can also be easily imported from files using Copy and Paste and the Windows Clipboard.

To do this, open the relevant file and copy the data to the Clipboard.

When the original file has been closed, the data on the Clipboard can be pasted into the editing field on the right-hand side of the import box either by pressing the **Ctrl V** keys or by using the shortcut menu which pops up after clicking the right mouse button.

After the data has been transferred to the preview window, it can be modified as required. Available functions include deleting data, inserting data, etc.

Clicking **OK** transfers the labeling to the tags.

If the number of requested tags exceeds the number of tags available, the following warning is displayed: **> Not enough tags selected to fit your request <**, and the number of imported tags must either be corrected or more tags must be provided for labeling.

Another direct import function is available from the main menu, select **> File** and **> Import file**.

The import filter is specially designed for the import of files created by former software programs, supporting a direct import of a complete marker card.

There is no “select from” available, the file is recognized and opened in the background upon importing the data. The software opens the dedicated segment on a new base plate and transfers the labeling to the tags accordingly. Post import of the data, all edit functions can be used as previously described.

Special import formats are available at sales support.

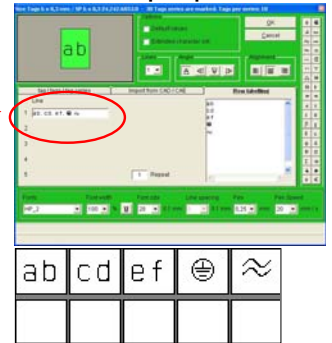
New	Ctrl+N
Open	Ctrl+O
Close	
Import file	Ctrl+I
Save	Ctrl+S
Save as	
Print / Plot	Ctrl+P
Stop plot	
Close	



## 5.7 Row labeling

After choosing the row labeling tab, marking can be easily carried out on individual row. Please ensure that you have selected complete row, since otherwise proper labeling will not be possible.

The editing field is used to enter the text to be printed on the row. The characters for each tag must be separated by commas for example, "ab, cd, ef, symbol, symbol" means print "ab" on the first tag, "cd" on the second tag, "ef" on the third tag, "symbol" on the forth tag and "symbol" on the fifth tag . Clicking **OK** transfers the labeling to the tags.



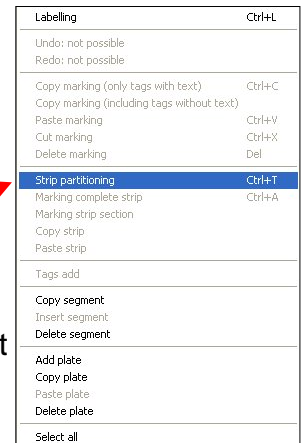
## 5.8 Marking of endless strips

This software has special features for marking of endless strips:

- Strip partitioning
- Marking complete strip
- Marking strip section
- Copy a strip
- Insert a strip

If you choose strip-material, the above mentioned functions for sectioning and marking of strips are available on the menu > Edit. By clicking you can select the strip you wish to mark.

*Note:* In order to mark a section of strip you have to prepare it first via menu > Edit > Strip partitioning.



### ■ Strip partitioning

You can open a window via > Edit > Strip partitioning which allows you to divide the strip into various sections.

First put in the width of the strip and then the amount of elements required in that width and confirm by pressing the button **Append** .

Thereafter you can select and add further sections with different widths.

If you wish to insert a section between other sections you have to mark-out the section before which you want to insert.

Then press the button **Insert** to start the process.

You can delete sections by marking-out the section and pressing the **Delete** button.

At the bottom part of the window you can check strip-length already occupied and the remaining strip-length.

After completion of sectioning press **OK** button and the strip will show up with the corresponding divisions.



### ■ Marking complete strip

Mark-out the required strip by clicking.

Via the menu > **Edit** > **Marking complete strip** you can get to the **labeling window** in which you can select the type of marking. This function allows you to carry out marking in multiple and serial mode in various element-widths.



Labelling	Ctrl+L
Undo: Marking complete strip	
Redo: Marking complete strip	
Copy marking (only tags with text)	Ctrl+C
Copy marking (including tags without text)	
Paste marking	Ctrl+V
Cut marking	Ctrl+X
Delete marking	Del
Strip partitioning	Ctrl+T
Marking complete strip	Ctrl+A
Marking strip section	
Copy strip	
Paste strip	
Tags add	
Copy segment	
Insert segment	
Delete segment	
Add plate	
Copy plate	
Paste plate	
Delete plate	
Select all	

*Note:* The space available for marking is calculated on the lowest element-width. Should you request an individual marking on the various element-widths, please choose this marking possibility over the menu by selecting > **Edit** > **Marking strip section**

### ■ Marking strip section

Mark-out the strip section you want to work on by clicking.

Via menu > **Edit** > **Marking strip section** you can open the labeling window and can select the print. This function allows you to completely utilize the available element-width.

*Note:* Cut markings can be added to the print output. The settings are made in the print output menu (see chapter “Printing Tags”).

Labelling	Ctrl+L
Undo: Marking complete strip	
Redo: Marking complete strip	
Copy marking (only tags with text)	Ctrl+C
Copy marking (including tags without text)	
Paste marking	Ctrl+V
Cut marking	Ctrl+X
Delete marking	Del
Strip partitioning	Ctrl+T
Marking complete strip	Ctrl+A
Marking strip section	
Copy strip	
Paste strip	
Tags add	
Copy segment	
Insert segment	
Delete segment	
Add plate	
Copy plate	
Paste plate	
Delete plate	
Select all	

### ■ Copy strip / Insert strip

Mark-out the strip you wish to copy by clicking.

Via menu > **Edit** > **Copy strip** you can prepare the copy process. Now click to the strip onto which you want the data to be inserted. Via menu > **Edit** > **Paste strip** the data will be inserted.

Labelling	Ctrl+L
Undo: Marking complete strip	
Redo: Marking complete strip	
Copy marking (only tags with text)	Ctrl+C
Copy marking (including tags without text)	
Paste marking	Ctrl+V
Cut marking	Ctrl+X
Delete marking	Del
Strip partitioning	Ctrl+T
Marking complete strip	Ctrl+A
Marking strip section	
Copy strip	
Paste strip	
Tags add	
Copy segment	
Insert segment	
Delete segment	
Add plate	
Copy plate	
Paste plate	
Delete plate	
Select all	



## 5.9 Copying functions

To avoid having to repeatedly enter the same or similar sequences, the program provides a multiple number of copying functions:

### 5.9.1. Copying a marking sequence

Select a sequence by clicking it with the left mouse button. Now click the right mouse button and choose **> Copy marking (only tags with text)** from the shortcut menu.

Then use the left mouse button to select the element where the copied sequence is to be inserted.

Open the shortcut menu by right-clicking and choose **> Paste marking**. If desired, the sequence can be altered.

The copy/paste functions can also be accessed via the icons / on the toolbar or by choosing **> Edit** from the menu bar.

Labelling	Ctrl+L
Undo: Labelling	
Redo: not possible	
Copy marking (only tags with text)	Ctrl+C
Copy marking (including tags without text)	
Paste marking	Ctrl+V
Cut marking	Ctrl+X
Delete marking	Del
Tags add	
Copy segment	
Insert segment	
Delete segment	
Add plate	
Copy plate	
Paste plate	
Delete plate	
Select all	

### 5.9.2. Copying several marking sequences

To copy several sequences, you can use the **Shift** - key to extend and select the area to be copied. Copy and paste as described above.

*Note:* Simultaneous copying of multiple sequences to other types of tags is not possible.

### 5.9.3. Copying parts of marking sequences

To copy individual markings from within sequences follow these steps:

Hold down the **Ctrl** - key and select all the labels you wish to copy by clicking them with the left mouse button. Copy and paste as described above.

*Note:* Simultaneous copying of partial marking from multiple sequences to other types of tags is not possible.

### 5.9.4. Copying of marking with empty signs

If you want to copy a range of tags, including non marked tags, mark these and click the right mouse button, select in the menu

**> Copy marking (including signs without text)**

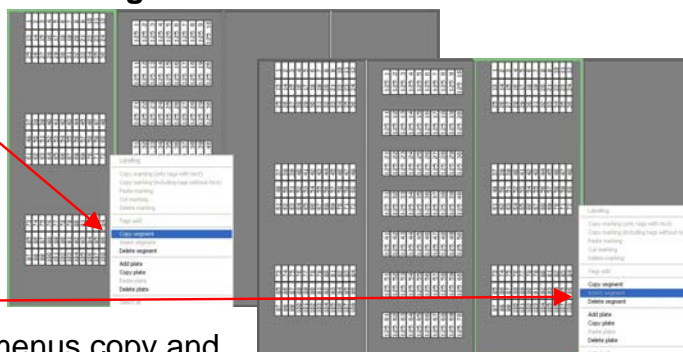
Copy and paste as described above.

Labelling	Ctrl+L
Undo: Labelling	
Redo: not possible	
Copy marking (only tags with text)	Ctrl+C
Copy marking (including tags without text)	
Paste marking	Ctrl+V
Cut marking	Ctrl+X
Delete marking	Del
Tags add	
Copy segment	
Insert segment	
Delete segment	
Add plate	
Copy plate	
Paste plate	
Delete plate	
Select all	

### 5.9.5. Copying a complete segment with tags

Choose the segment with a mouse click. Press the right mouse button, select in the menu > **Copy segment** and activate it. Go to the destination segment and click the mouse to activate it. Press the right mouse button and select in the menu > **Paste segment**

Using the menu bar > **Edit** and sub menus copy and paste works in the same way as described above.

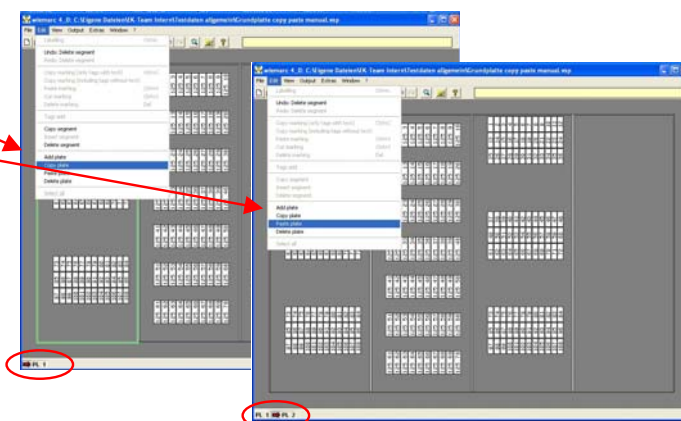


### 5.9.6. Copying an entire base plate

Choose > **Edit** from the menu bar, followed by > **Copy Plate**.

Choose again > **Edit** from the menu bar, followed by > **Paste Plate**.

The whole plate will be copied automatically.



### 5.9.7 Copying of texts onto other tag sizes

In some cases, the copying function of text to other tag sizes is disabled. It is only allowed to copy in a common sense. The preview of the print must fit on the tag, like writing angle and text size.

In general only one sequence can be copied at a time.

*Note:* All copy functions described can also be used between projects.

## 5.10. Zoom function

In order to activate or deactivate the zoom function, choose > **View** > **Zoom function** from the menu bar or click on the icon.

Click on the icon once and move the mouse to the position on the base plate you like view differently. With the left mouse click the position will be taken as new screen center and enlarged. A new click on the icon will deactivate the function, continuing to work with the current zoom.

The click with the right mouse button reduces the screen by a given zoom factor.

### 5.11 Control print of the labeling data

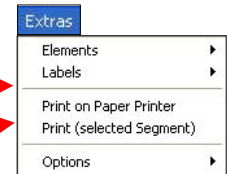
You can send the print data to a standard printer by selecting > **Extras** from the main menu.

**Print all segments.**

The printer prints two quarter size segments per page, a two page printout from the wieplot 500 full size

**Print selected segments only:**

The printer prints one page with the selected segment.



### 5.12 Preferences

Choose > **Extras** > **Options** from the menu bar for opening the window to select form.

To select the language please check the next window coming up.

Before the plot starts a message comes

up, reminding you how to treat the

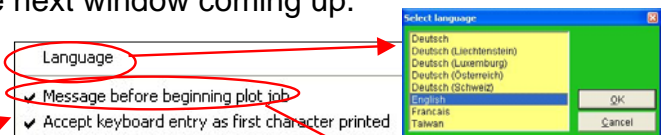
plotter pens. If you don't like to have it

come up please check the mark. If you select a tag ready for labeling,

**first character accepted**, the labeling window opens and the character

is placed on the selected tag. If you don't like to have it in place please

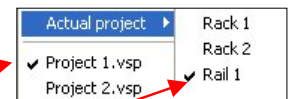
check the mark.



### 5.13 No. of projects and base plates allowed

Choose > **Windows** from the menu bar in order to receive the overview of your actual project no. and base plates activated.

In total you can have up to **10 different projects** and up to **16 base plates** from each project open and work with.



### 5.14 Information menu > ?

Choose > **?** from the menu bar to receive further information about the system.

If you select **Support plates**, a window with different lists comes up,

showing the actual available support plates, the description and part no.

If you select **Online-help**, a description of general features of the software

is available. You can click within the software at any time on the icon or open the help file from the menu bar > **?** > **Online-Help**.

The information window opens from the

menu bar > **?** > **Information** with important information about the software version, the release of the database and the firmware of the **wieplot 500**.

To close the window click on the **OK** button.



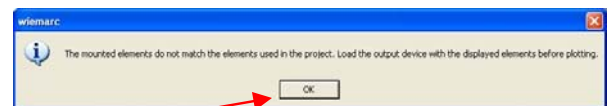
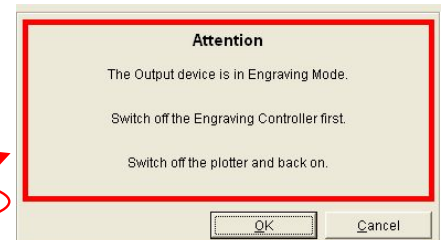
## 6. Starting the Print Job with the wieplot 500

Once all the data for printing the job are entered the tags can be plotted.

In the upper left corner of the screen you will find the information. **Plotting Mode** In order to start printing, the plotter needs to be switched on and connected with the respective data cable.

Click on the printer icon in the main menu bar. Prior to starting, the software verifies if the plotter runs in the plotting mode. If you are using the engraving option for this plotter also, the plotter could be in the engraving mode. If that is the case, you will find some instructions on the screen how to switch the plotter into the plotting mode. After confirming the message the status will be re-checked.

Now the software verifies if the selected support plates are identical with the ones placed on the plotter, if not, a warning message comes up on the screen you need to confirm.



Following new information are displayed and adjustments could be selected from:

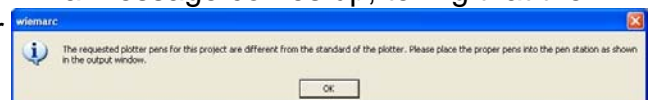
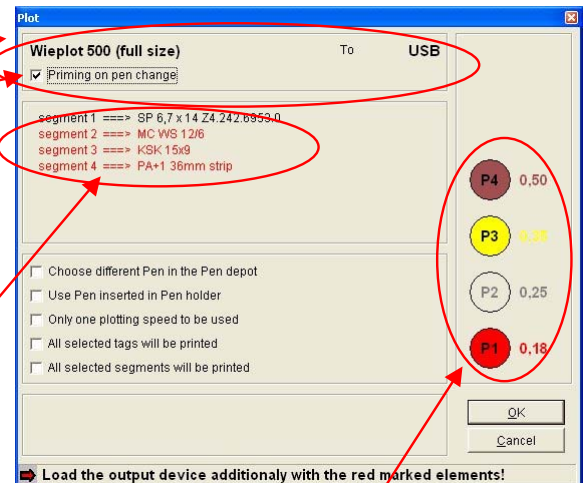
In the top part of the window the selected plotter and interface are indicated.

The next click box ☒ Priming on pen change you can check to activate or deactivate priming the plotter pen on one of the fields left or right of the Pen Station.

The next field of the window indicates the recognized support plates, placed on the plotter. Are those different from the ones chosen for this project, the necessary support plate for this job is indicated in red.

The right side of the window is used to show the different plotter pens to be used for this job, also with a color indication according to the standard color coding of the **EK-TEAM** Plotter Pens.

If the tip of the pen used is larger than .5 mm a message comes up, telling that the standard pen sizes (.18 mm to .5 mm) for this job will be different.



■ Different print options could be set up in the lower part of the window:

→ **Use one Plotter Pen Size only**

In order to execute this job, two or more pens to be used might be indicated. If you like to use one tip size, please check this box and select the respective Pen.

→ **Use Pen inserted in Pen Holder**

Once checked this box, no Pen will be picked up from the Pen Station. The pen directly inserted into the Pen Holder will be used. This option could be used, if pens used are different from the EK-TEAM Pens, although they might have a HP compatible outside dimension, but will not fit into the Pen Station of the plotter.

→ **Use one Plotter Speed only**

In order to execute this job, different speeds (10 to 40 mm per second) could be selected from the data entry. In order to work with one speed selection only, please check this box and select the respective speed.

→ **Print selected tags only**

If you check this box, only the tags marked before are subject to be printed.

■ **Select a sequence**

Just click in the edit window on the sequence once and it is marked.

■ **Select multiple sequences**

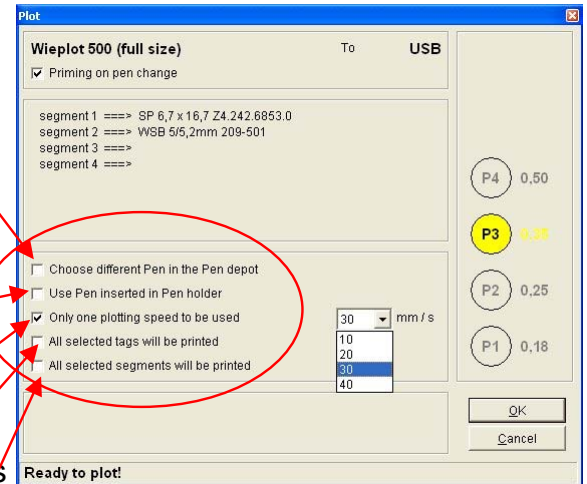
Just click in the edit window on the first sequence once, hold down the **Shift** Button and click on the next sequence ones etc. and all are marked.

■ **Select single tags**

Hold down the **Ctrl** Button and just click in the edit window on the single tag or multiple tags once and they are marked.

→ **Print selected segments only**

If you check this box, only the segments marked before are subject to be printed. Just click in the edit window on the segment once and it is marked. In order to mark two or more segments, hold down the **Ctrl** Button and click on each segment once.





→ If you print on endless strips, additional adjustments are subject to be checked.

Insert a cutting line

☒ No

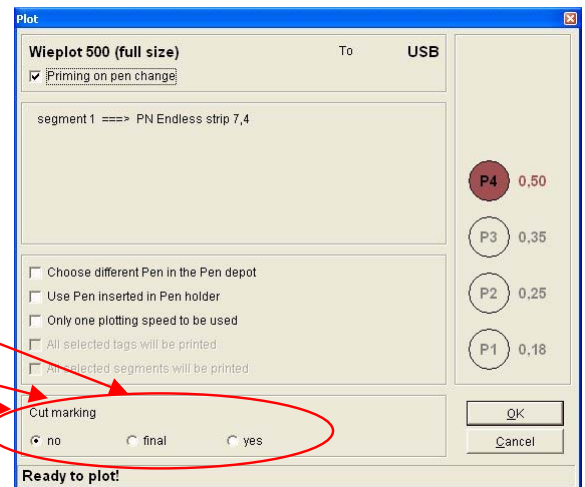
no cutting line is printed

☒ Yes

cutting lines are printed after each tag length

☒ Final

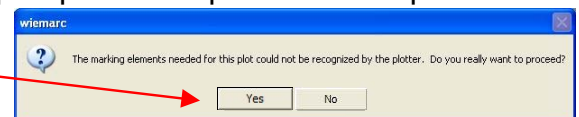
cutting line is printed after the last tag of the whole strip length



The print job starts with a click on the **OK** Button.

The software checks again if the selected support plates are placed on the plotter.

If not, a warning message comes up to be confirmed, either continue or cancel.



In case the already started job should be stopped, please click on the icon Stop Plot in the menu bar. The printout will be interrupted and the data (if any left) in the print spooler of the PC and the **wieplot 500** will be deleted.

The **wieplot 500** will re-align and move back to the origin, waiting for the new job.

Alternative the power of the **wieplot 500** can be re-cycled by pressing the **OFF** and **ON** button. All existing data will be deleted and the zero position re-aligned.

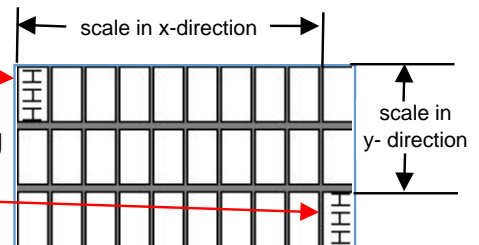
Other plotter connected might be different in the operation, please refer to the instruction manual.



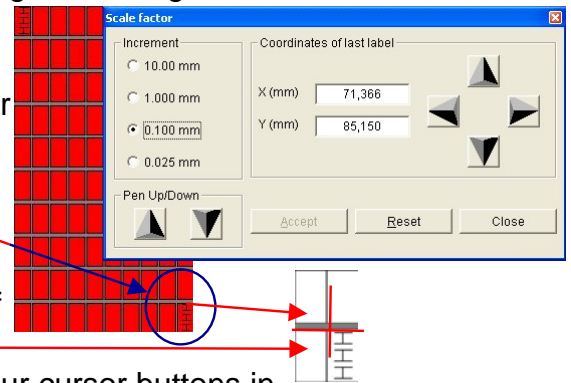
## 7. Scale factor

The data created from each individual tag for the database was carefully investigated, although they are not frequently checked. There could be a chance for the printable tags to receive by the time a slight mechanical deviation, spec. in the scale factor, means the distance from one tag to the next in both of the directions x and y. Temperature and humidity at the work bench could influence the distance as well as new production series and different production techniques during the process like material and temperature changes. Covering the complete x and y dimension of the marker card, deviations of > 1 mm are noticeable. In order to be able to correct the settings a special function is provided under menu > Extras > Elements > Scale factor.

Once a segment with a marker card is placed on the **wieplot 500** the first upper left tag should be checked, if the print is centered in both directions (see also item 10 Calibration). There after the last tag at the lower right corner needs to be printed in the same manner. If not printed exactly the same, the scale factor for this particular card is **not perfectly correct**.



In order to correct the scale factor select one tag on the segment and choose > Extras > Elements and > Scale factor from the menu. The tags are changing into red and the **wieplot 500** moves with the inserted pen or magnifying tool to the lower right corner to the point of the beginning of the last tag. With the button Pen Up /Down the plotter pen or magnifying tool can be lowered in order to find exactly the correct spot of the beginning of the last tag at the lower right corner.



You can move the arm of the plotter with the four cursor buttons in the pre-selected steps from 0.025 mm up to 10 mm, the default value is 0.1 mm. After completion you must press the button **Accept** in order to save the changes to the user file within the database, the general database is always kept original. Closing the window moves the plotter arm back to the previous position. The next start of the software will take the **changed information** from the user database. You can return to the original values by clicking the **Reset** button.

The complete dimension in x and y direction can be changed with the correction of the scale factor. Re-check the result of the print again by printing the last tag at the lower right corner, centered in both directions.

## 8. Designing new Tags

This part of the program allows you to design own tags and elements or labels.

In order to open the program, choose > Extras and > Elements from the main menu.

To open the designer for labels for the endless

TT-Printer and Office Printer choose > Extras and

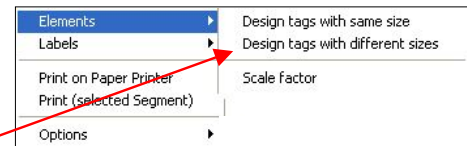
> Labels from the main menu.

There are two versions available

designing new tags:

■ Design tags with same size

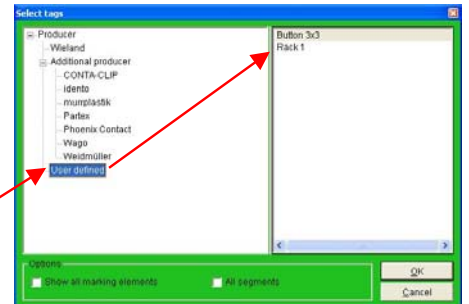
■ Design tags with different sizes



If you like to design e.g. a label sheet with same sized labels in a matrix, use

> Design tags with same size. If you like to design e.g. a serial no. plate with different sized label areas, use > Design tags with different sizes.

*Note:* Designing tags is only possible with a plotter as output device selected. If you are working with the engraving feature, the software suggests to use either the half (DIN A4) or full size (DIN A3) plotter.



The use of the design program is described below,

after saving, the designed elements or labels are available for labeling in the folder

> User defined under > Producer (manufacturer) after selecting the correct output device..

## 8.1 Example for designing a label sheet (matrix) with same sized labels for plotting and engraving

Open the designer from the main menu with > Extras > Elements  
> Design tags with same size as described above.

The following window appears:

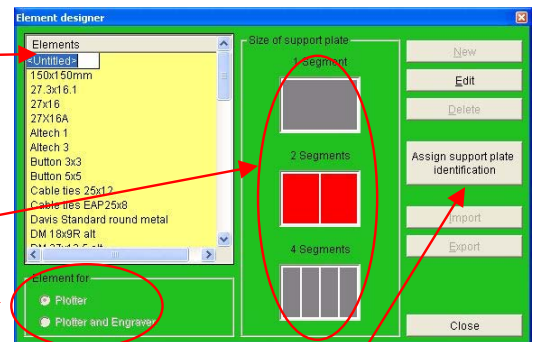
With a click on the button **New** a new element can be named in the window under <Untitled>. It is useful to work with the element recognition system of the plotter in order to find the element more easy later on.

For the element you want to design, enter a new name in the window <Untitled>.

If you don't want to use the element recognition system or you are working offline (without being connected to the **wieplot 500**), select the type of support plate for the sheet.

You can select between a quarter size, half size or full size support plate.

You can always assign the support plate to the project later on. As soon as you are connected back to the plotter place the support plate and click on the button **Assign support plate identification**. Pre-selected is the plate for sheets (half size plate).



Further you can select in the lower left part of the window, if the new designed material is for plotting only or plotting and engraving. The buttons are only active once the support plate is recognized or assigned to the project.

Once selected, click on the **Edit** button.

*Note:* Engraving is only possible on dedicated support plates.

A new window opens up, where you can enter the data of the tag (size of the label), if known.

You can always take the measurements using the plotter system, if the data is not available.

You need only to enter the nos. of tags in x and y direction.

All other data necessary for the program, can be taken with the plotter system.

Please enter the no. of tags in x and y direction as shown in the window.

If available enter also the size of the tag (label) and the distance to the next tag. You can always correct the data later on, if the exact nos. are not present at the moment. Always take the start position of the first tag with the plotter system!

Further on, you can decide on the labeling direction of the tags.

For the sequence for plotting or engraving you can choose between upper left to upper right (by row) or upper left and lower left (by column).

**Attention:** It is essential for continuing the design to switch on the plotter and have the support plate with the label sheet placed on.

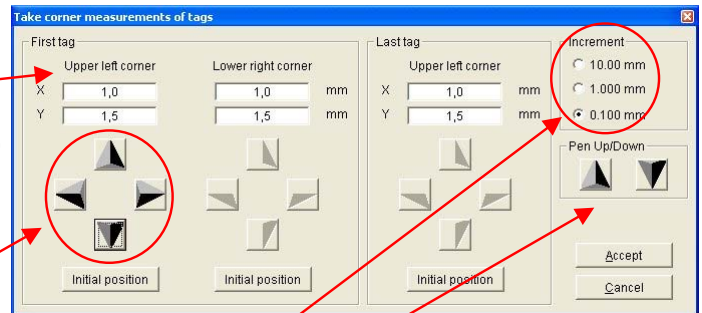
Insert a plotter pen directly into the pen holder of the plotter.

If you have entered minimum the no. tags (label) in each direction, please click on the **Take measurements** button.

A new window opens up, providing buttons and entry windows, in order to take all relevant measurements for the new element.

Please follow the steps for taking measurements:

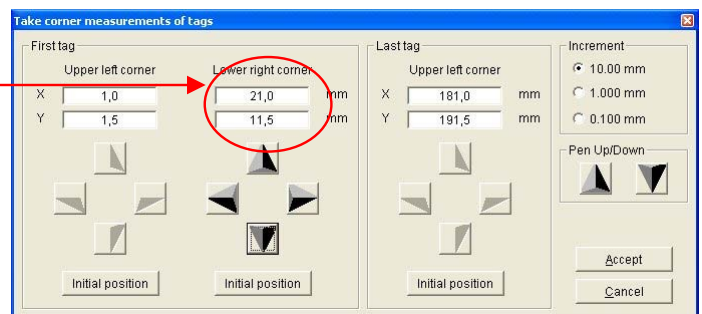
- Determine the exact position of the first tag on the label sheet. In order to do so, please click on the most left button **Initial position** of the window.



The arm of the plotter moves to its upper left corner limit (zero position). From there you can move the arm with the pen inserted to the upper left corner of the first tag with the cursor buttons. You can select the size per step in mm in the upper right area of the window.

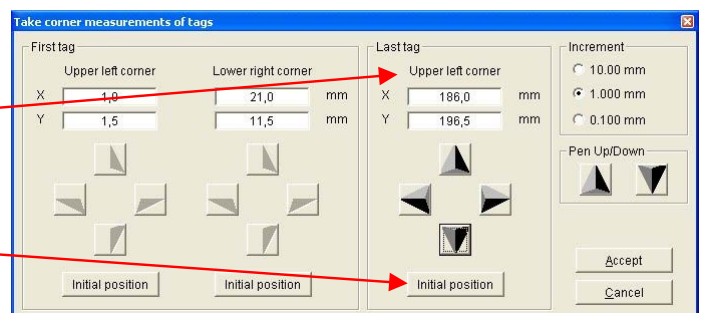
Please check with the **Pen Up/Down** button the correct position after you moved the pen to the initial point of the tag. The respective co-ordinates are shown in real nos. in the x- and y- window based on the zero position.

- Determine now the exact position at the lower right corner of the first tag. Just repeat the steps as for the upper left corner, described above.



- As next step, determine now the exact position of the upper left corner of the last tag (size of matrix).

Take the initial position in the same manner as described above.



After completion of the three steps all measurements are taken for the element.

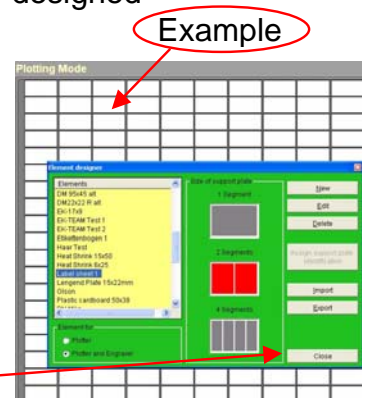
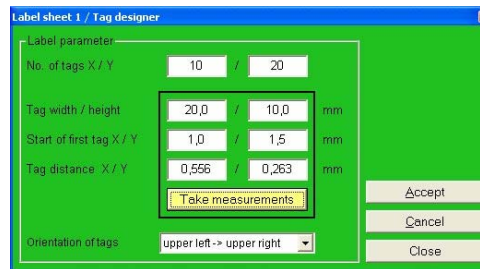
In order to save the data for the new element, please click on **Accept**.

The window "Take corner measurements of tags" will be closed and you are back to the previous window.

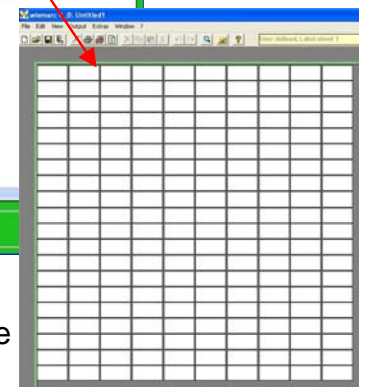
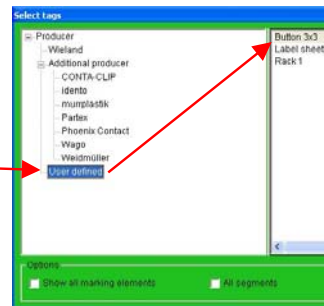


Please click on the button **Accept** in the window and the new designed element will be shown.

Now you can check, if all the data were taken correctly. Any up-coming error or warning message at this point means, please re-check the data manually or allow the automatic correction by the program.



Click on the button **Close** in order to terminate the designer program. You can find the new element for labeling in the folder > **User defined** under > **Producer**.



*Note:* All new elements in the folder User defined will continue to be available after program updates.

## 8.2 Example for designing a plate with different sized label areas for plotting and engraving

Open the designer from the main menu with > **Extras** > **Elements** > **Design tags with different sizes**.

The same window appears, as described before for designing tags with the same size. All adjustments will be done in the same manner.

After clicking on the button **Edit** a similar window appears, extended by additional functions.

Now you have the ability to implement different sized **labeling areas**. Each new area or field needs to have an own name.

Taking the measurements is now similar to the previous sample of the label sheet matrix.



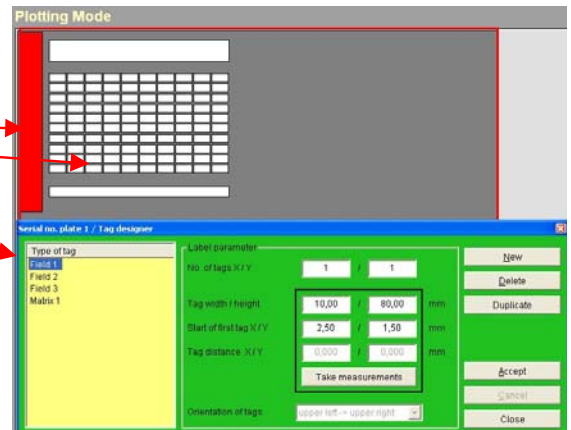


In case you like to copy the labeling field and place it at a different y-position, click on the Button **Duplicate**. Please enter the new position in the new upcoming window and confirm the entry by clicking on **Accept**.

*Note:* The new labeling areas could be part of a label sheet (matrix) as well as a single area.

Please click on the button **Accept** in the previous window and the new designed element will be shown. Now you can check, if all the data were taken correctly.

Click on the button **Close** in order to terminate the designer program. You can find the new element for labeling in the folder > User defined under > Producer.



In case the labeling is not exactly centered, you are allowed to edit the new designed elements at any time. Open the designer program again, choose the element or part of the element you want to change and click on the button **Edit** for making the adjustments.

*Note:* All new elements in the folder > User defined will continue to be available after program updates.

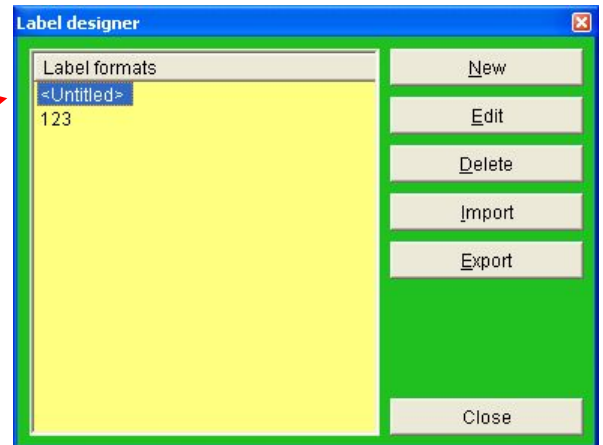
### 8.3 Example for designing same sized labels for endless TT-Printer

Open the designer from the main menu with > Extras > Labels  
> Designer endless labels as described above.

The following window appears:

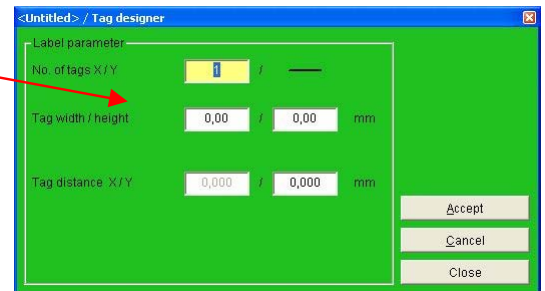
With a click on the button **New** a new element can be named in the window under <Untitled>.

Confirm the new name by clicking on **Edit** and the new window for entering the data of the label will open up.



Take the measurements of the label and the distance between two labels.  
Enter the data into each field incl. the no. of labels in x-direction, confirm the entry with **Accept** and the labels will be shown as designed.

Please check if all measurements were taken correctly. With **Close** the designer will be terminated.



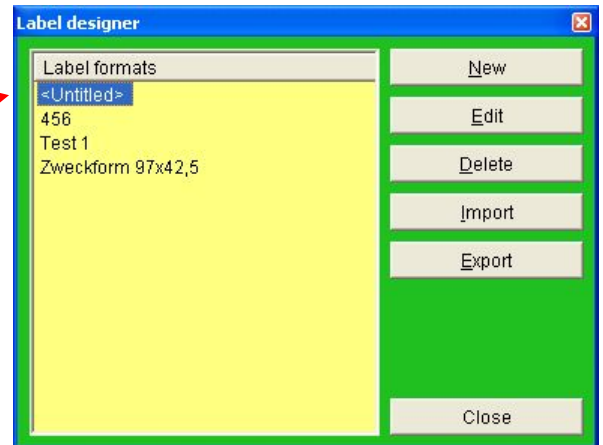
After selecting from the main menu > New the correct output device, the designed labels are available for labeling in the folder > User defined under > Producer (manufacturer).

## 8.4 Example for designing same sized labels for Office Printer

Open the designer from the main menu with > Extras > Labels  
> Design label sheets with same size as described above.

The following window appears:

With a click on the button **New** a new element can be named in the window under **<Untitled>**.  
Confirm the new name by clicking on **Edit** and the new window for entering the data of the label will open up.



Take the measurements of the label, the distance between two labels and the start point from the left and upper side. **Enter the data** into each field incl. the no. of labels in x- and y-direction, confirm the entry with **Accept** and the labels will be shown as designed.

Please check if all measurements were taken correctly.



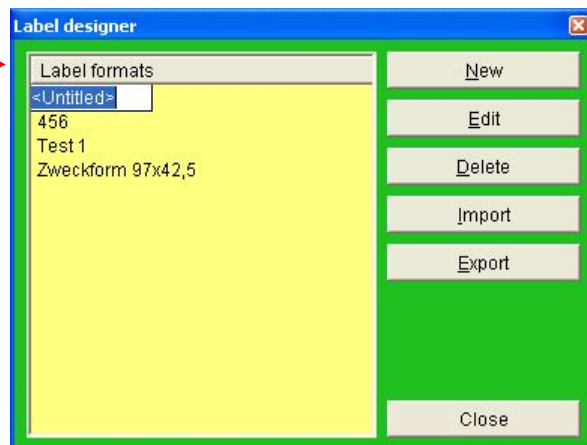
With **Close** the designer will be terminated. After selecting from the main menu > New the correct output device, the designed labels are available for labeling in the folder > User defined under > Producer (manufacturer).

## 8.5 Example for designing different sized labels for Office Printer

Open the designer from the main menu with > Extras > Labels  
> Design label sheets with different sizes as described above.

The same window appears, as described before for designing label with the same size. All adjustments will be done in the same manner.

After clicking on the button **Edit** a similar window appears, extended by additional functions.



Now you have the ability to implement different sized labeling areas. Each new area or field needs to have an own name.

Taking the measurements is now similar to the previous sample of the label sheet matrix.

In case you like to copy the labeling field and place it at a different y-position, click on the Button **Duplicate**.

Please enter the new position in the new upcoming window and confirm the entry by clicking on **Accept**.



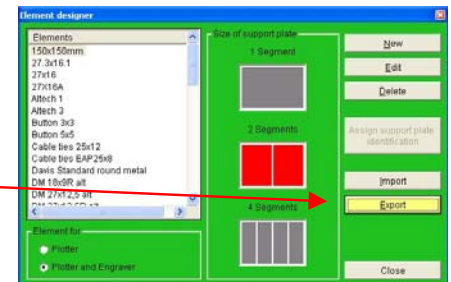
*Note:* The new labeling areas could be part of a label sheet (matrix) as well as a single area.



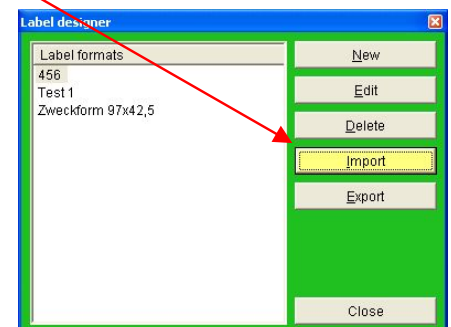
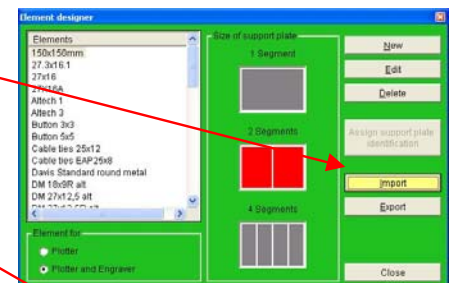
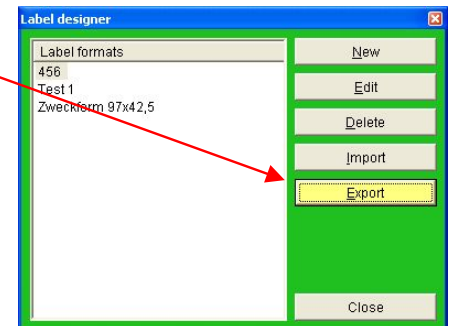
## 8.6 Import / Export of User elements

You can import or export user designed elements and exchange with other users (created as described in chapter 8.1 and 8.5).

To export an user designed element, click on the button **Export** and select the folder saving the .txt-file. The file name is suggested as the element name. Exported files can be imported at another work stations.



To import an user designed element, click on the button **Import** and select the file to be imported. You can find the new element in the User defined folder. You can overwrite an already existing name for an element.





## 9. Engraving Tags

Please select the output device first in order to start engraving with the **wieplot 500** Engraver (see also chapter 3 page 3). In the upper left corner of the screen you will find the information. **Engraving Mode**

Connect the engraving unit according to the manual and switch on the Controller **wieplot VEC 500** first, followed by the plotter **wieplot 500**.

The steps getting used to the software, starting at chapter 5, are not changed using the engraver. Just where the functions are different or additional a new description is implemented into the manual as described in the following.

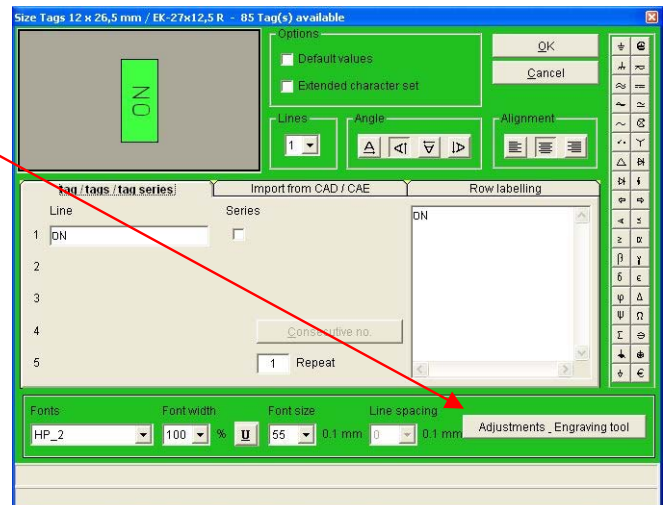
### 9.1 Engraving with the wieplot 500 Engraver

Double-click the tag or element where the engraving process is to begin.

This opens the labeling dialog box, which contains all the setting options. In order to open the edit window, please click on the first tag to start with, use the right mouse button and choose > Labeling from the menu (see also chapter 5.4) or start typing a character on the keyboard (check under > Extras> Option from the menu first).

Further adjustments using the engraving tool are available by clicking on the button

**Adjustments Engraving Tool**



Following adjustments for the engraving unit could be made and selected from.

#### ■ Size of tool

Engraving needle in the size of .2 mm up to 1 mm could be selected from.

#### ■ Engraving speed

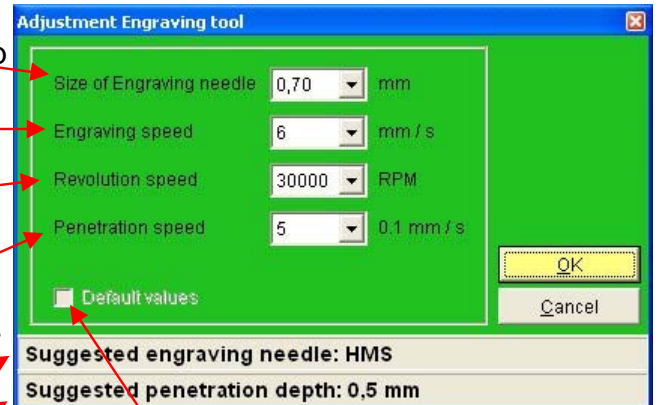
Adjustments of 2 mm/s up to 20 mm/s could be selected from

#### ■ Revolution per minute (RPM)

Adjustments of 5,000 up to 50,000 RPM for the engraving spindle could be selected from

#### ■ Penetration speed

Adjustments of 0.1 mm/s up to 1 mm/s could be selected from in steps of .1 mm/s  
The type of the tool and the penetration depth will be suggested according to the selected engraving material.



#### → Restore Default values:

If you change the above parameters for each element the data will be stored in a separate file. If you choose the element again, you will find the previously used parameter settings.

Click **Default values**, if you want to restore the original settings.



*Note:* After updating the software the user's specific parameters remain valid.

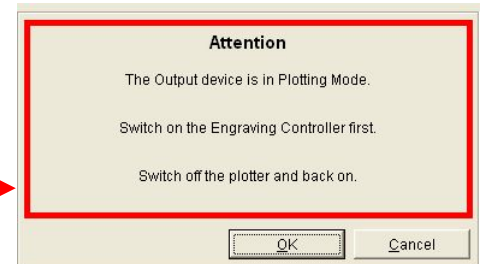
## 9.2 Starting the Engraving

Once all the data for engraving the job are entered the tags can be engraved. In the upper left corner of the screen you will find the information. **Engraving Mode**

In order to start engraving, the engraving unit needs to be installed and connected according to the manual. There after switch on the engraving controller **wieplot VEC 500** first followed by the plotter **wieplot 500**. Click on the printer icon in the main menu bar.

Prior to starting, the software verifies if the plotter runs in the engraving mode. If the plotting mode is detected, you will find some instructions on the screen how to switch the plotter into the engraving mode.

After confirming the message the status will be re-checked.



Now the software verifies if the selected support plates are identical with the ones placed on the plotter. If not, a warning message comes up on the screen you need to confirm.

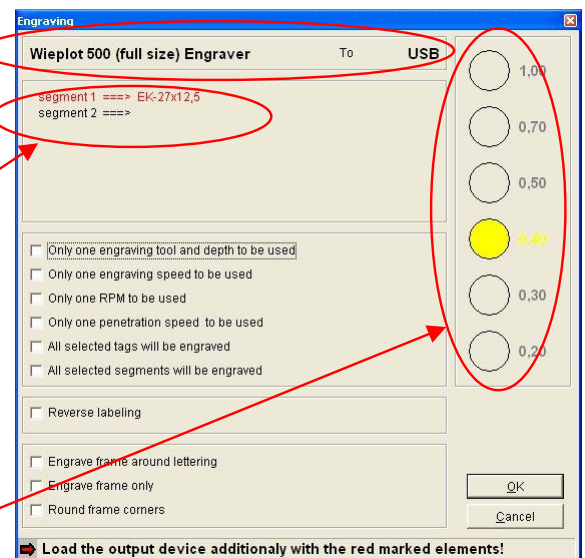


Following new information are displayed and adjustments could be selected from:

In the top part of the window the selected plotter and the used interface is indicated.

The field below in the window indicates the recognized support plates, placed on the plotter. Are those different from the ones chosen for this project, the necessary support plate for this job will be indicated in red.

The right side of the window is used to show the different engraving needles to be used for this job, also with a color indication.



■ Various engraving options could be set in the middle part of the window:

→ **Only one engraving tool and depth to be used**

In order to execute this job, two or more engraving needles to be used might be indicated. If you like to use one needle size and penetration depth only, please check this box.

→ **Only one engraving speed to be used**

In order to execute this job, different engraving speeds (2 to 20 mm per second) could be selected from the data entry. In order to work with one speed selection only, please check this box and select the respective engraving speed.

→ **Only one revolution speed (RPM) to be used**

In order to execute this job, different revolution speeds (5000 to 50000 RPM) for the engraving spindle could be selected from the data entry. In order to work with one selection only, please check this box and select the respective revolution speed.

→ **Only one penetration speed to be used**

In order to execute this job, different penetration speeds (0.1 mm to 1 mm per second) for the engraving needle could be selected from the data entry. In order to work with one selection only, please check this box and select the respective penetration speed.

→ **All selected tags will be engraved**

If you check this box, only the tags marked before are subject to be engraved.

■ **Select a sequence**

Just click in the edit window on the sequence once and it is marked.

■ **Select multiple sequences**

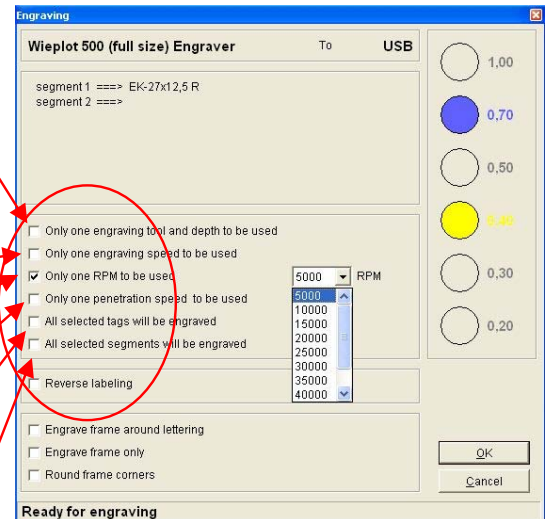
Just click in the edit window on the first sequence once, hold down the **Shift** Button and click on the next sequence ones etc. and all are marked.

■ **Select single tags**

Hold down the **Control** Button and just click in the edit window on the single tag or multiple tags once and they are marked.

→ **All selected segments will be engraved**

If you check this box, only the segments marked before are subject to be engraved. Just click in the edit window on the segment once and it is marked. In order to mark two or more segments, hold down the **Control** Button and click on each segment once.



■ Various options for the frame are available in the lower part of the window:

### → Reverse labeling

With this option selected, the lettering will be reverse engraved. You will have a clean surface at the front, engraved from the back side. Useful for engraving letterings used in harsh environments, no particle could stick in the engraved groves making the lettering unreadable (specific material required).

### → Engrave frame around lettering

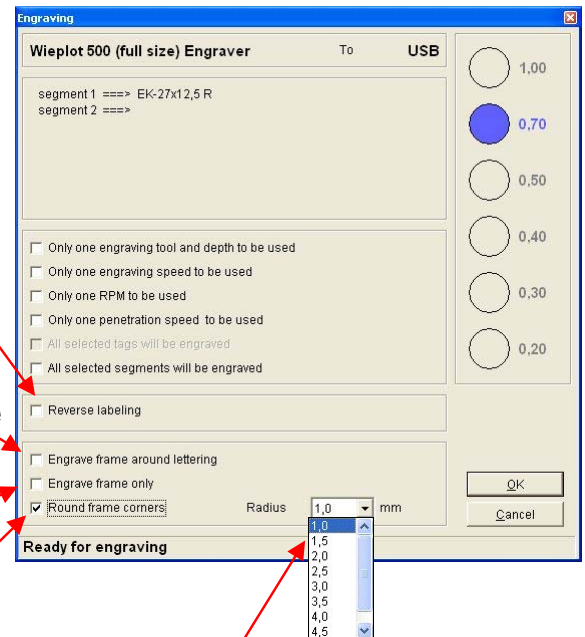
With this option selected, a frame will be engraved around the lettering. First the lettering will be engraved. Thereafter the engraving process stops asking you in a message box to change the engraving needle or to alter the engraving depth. If no tag is selected, all frames around the tags will be engraved, even if they don't carry any lettering.

### → Engrave frame only

With this option selected, the frame will be engraved only without the lettering. This selection is useful engraving multiple depths on thicker material. Using first a lower penetration depth and for the second run the final setting.

### → Round frame corners

With this option selected, you can select in a **combo box** various radius settings for the corner engraving of the frame. Possible settings for the radius are between 1 mm and 5 mm in .5 mm steps.

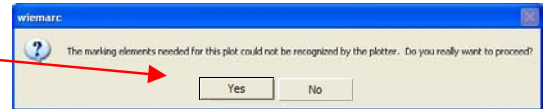




The engraving job starts with a click on the **OK** Button.

The software checks again if the selected support plates are placed on the plotter.

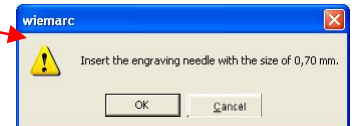
If not, a **warning message** comes up to be confirmed, either continue or cancel.




There after the software reminds you by a

message to verify, if the **selected engraving needle** is inserted into the spindle.

This message needs to be confirmed with a click on the **OK** Button and the engraving job starts.



In case the already started engraving job should be stopped, please click on the icon  Stop Plot in the menu bar. The engraving will be interrupted and the data (if any left) in the print spooler of the PC will be deleted.

The **wieplot 500** Engraver will move back to the origin, waiting for the new job.

Alternative the power of the **wieplot 500** can be re-cycled by pressing the **OFF** and **ON** button. All existing data will be deleted and the zero position re-aligned.

For further information, please refer to the operating instructions of the **wieplot 500**.

## 10. Calibrating the Plotter

The **wieplot 500** is calibrated during the production. In case of small deviations, like the printout is not correctly in the center of the marker, the plotter could be calibrated manually.

In order to do so, please make sure there are no parts on the plot field, like ball pen, not proper mounted support plates etc., then go to the menu > **Output** > **Output device** and choose > **Calibration**

The arm moves into the center position.

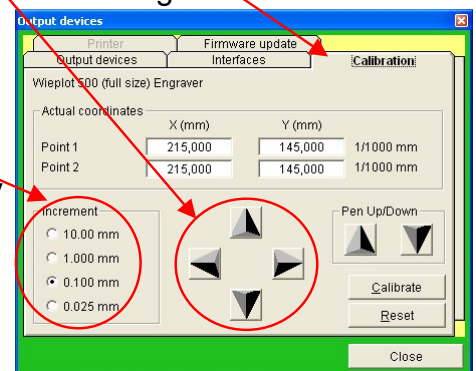
In the window on the screen you have 4 **cursor** buttons in order to move the setting in either direction, in steps .025 mm up to 10 mm, the default setting is .1 mm.

Each click in the button will move the Pen holder connected to the arm into the desired direction. After the changes made, hit the **Calibrate** button and the new settings are stored in the software.

Please check again during the next print, if necessary use the calibration function again until the output performance is satisfied.

Use always the first tag at the upper left corner of the segment (see also item 7 Scale factor).

The **Reset** button takes you back to the original setting.



Although the other output devices you might want to use are pre-calibrated, because of the different starting point, the calibration procedure as described is essential with those other devices.

## 11. Firmware update of the plotter

With this option you are able to update the existing firmware of the plotter.

It is necessary e.g. if you are using a **wieplot 500** plotter already, purchased in 2005 or earlier and now wanted to use the engraving feature.

In order to download a new version, please follow the steps as described:

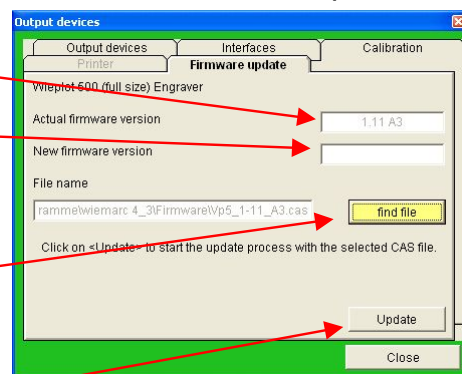
Start the program **wiemarc** and switch on the plotter. Make sure the plotter is connected with the interface cable to the PC and the interface is selected correctly (see point 3).

Choose from the main menu > Output > Output devices the tab > Firmware update.

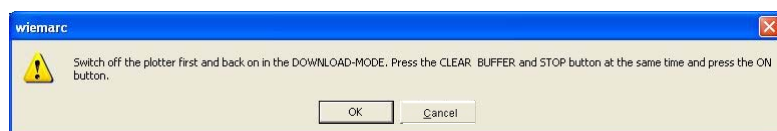
The upcoming window shows the actual firmware in nos. A later version of the firmware is shown in the field below with a higher no.

Now you can update to the next level of the firmware.

If the later version is not in the pre-selected folder, please use the **Browse** button to search for in another folder.



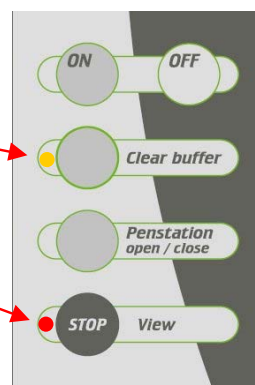
With a click on the button **Update** a new message window opens up. You are asked to switch the plotter into the download mode.



In order to do so, turn off the plotter, hold down the button

**Clear buffer** and the button **STOP** together and press **ON** again. The control LEDs **STOP** and **Clear buffer** are on.

Confirm the setting with the **OK** button and the update process starts. A new message opens up telling you the plotter will turn off automatically after completion. Confirm with the **OK** button.



In order to check if the new firmware is stored correctly in the plotter, turn on the plotter again and choose from the main menu > Output > Output devices the tab > Firmware update. In the field "Actual firmware version" should now be the no. of the latest version.

## 12. Printing on other output devices

With the connection of other output devices, labeling data could be printed on Thermal-Transfer Printer (TT-Printer) as well as standard Office Printer. As described in chapter 8 the labels need to be designed first.

### 12.1 Printing on endless TT-Printer

Please select first the output device from the main menu > **File** > **New**.

In the upper left corner of the screen you will find the information. **Printing Mode**

The

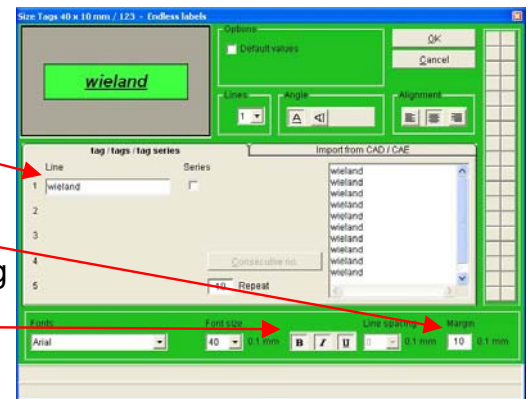
designed labels are available for labeling in the folder > **User defined** under > **Producer** (manufacturer).

Enter the labeling data in the editing window as usual. The data can be changed and modified as described in chapter 5.4 to 5.6.

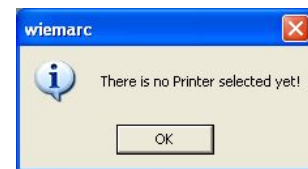
By selecting a margin, a fixed distance within the label can be set, making sure the print is always within the label area.

In addition the text can be manipulated for printing in **Bold**, **Italic**, **Underline**, clicking **OK** transfers the data to the label.

After all entries are completed, click on the icon **Print / Plot / Engrave**.

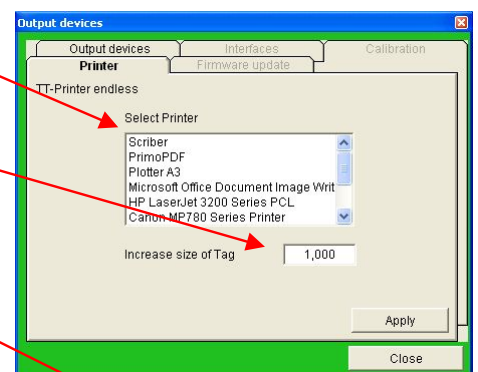


A message window opens up with the information to select first a system printer, clicking **OK** opens the window with the available printer list, please select the TT-Printer.



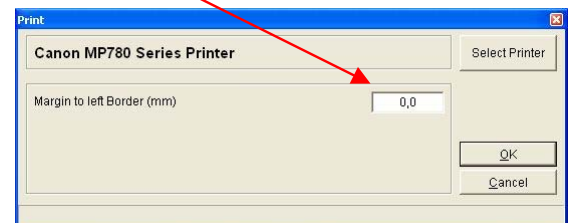
If necessary you can change the size of the label just to perform a final correction of the total length by entering a factor.

Clicking on **Apply**, opens the print window with the possibility of entering the margin to the left border of the endless labels.



Please confirm with **OK** and the printout will be started.

Please check the print on the label regarding the position, if necessary change the entry of the left border margin or go back to the designer and make the corrections in view of size and distance of the label.



## 12.2 Printing on standard Office Printer

Please select first the output device from the main menu > **File** > **New**.

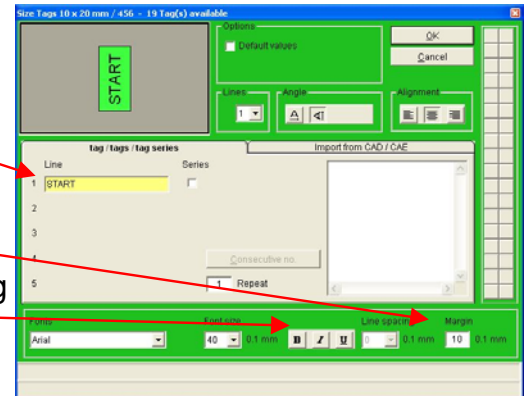
In the upper left corner of the screen you will find the information. **Printing Mode**

The designed labels are available for labeling in the folder > **User defined** under > **Producer** (manufacturer).

Enter the labeling data in the editing window as usual. The data can be changed and modified as described in chapter 5.4 to 5.6.

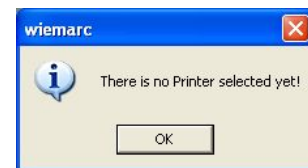
By selecting a margin, a fixed distance within the label can be set, making sure the print is always within the label area.

In addition the text can be manipulated for printing in **Bold**, **Italic**, **Underline**, clicking **OK** transfers the data to the label.



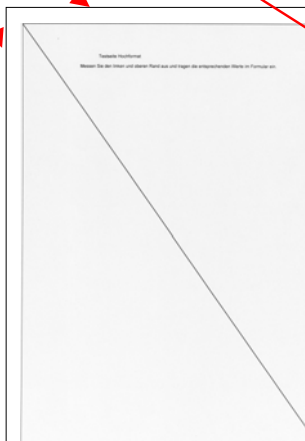
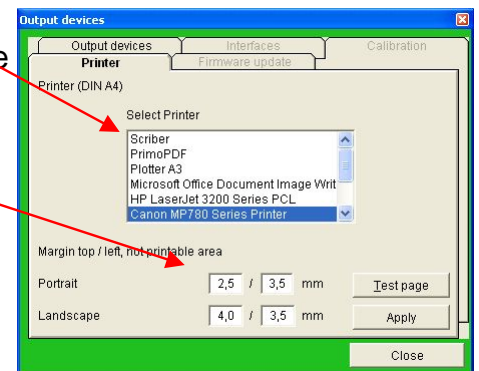
After all entries are completed, click on the icon **Print / Plot / Engrave**.

A message window opens up with the information to select first a system printer, clicking **OK** opens the window with the available printer list. Please select the Office Printer you like to use for the printout.



In addition you need to enter the data of the non printable areas from the top and left in both of the formats, portrait and landscape.

Click on **Test page** in order to print the two pages for you to take the measurements from the top and left side, enter the data and click on **Apply**. The data are stored for the selected printer and the print window opens accordingly.





In the top part of the window you enter the **no. of copies**, in the lower part you have the following choices to select from:

→ **Print frame around lettering**

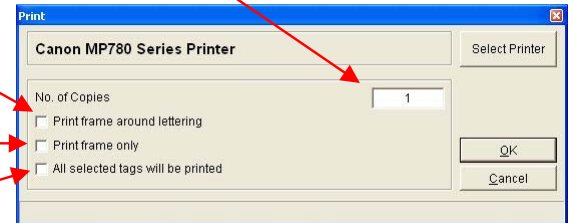
With this option selected, a frame will be printed around the lettering.

→ **Print frame only**

With this option selected, the frame will be printed only without the lettering.

→ **All selected tags will be printed**

If you check this box, only the labels marked before are subject to be printed.



Please confirm with **OK** and the printout will be started. Check the print on the label regarding the position, if necessary change the entry of the upper and left border margin or go back to the designer and make the corrections in view of size and distance of the label.