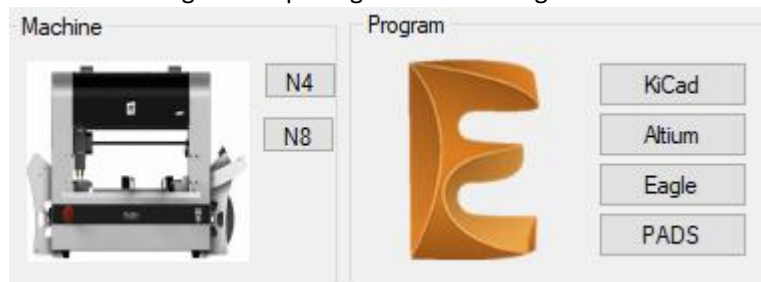# CSV to Neoden software

Introduction:

The Neoden 4 is a complete pick and place machine with dual vision. To make it easier to create a pick and place file we have created this offline software package. This software will allow you to assign feeders and nozzles automatically, based on an integrated component list.

The main features are:

- Recalculate the angle of the components.
- Change the columns of the CSV.
- Automatically assign the component positions.
- Recalculate the XY positions to machine coordinates.
- Works with KiCad, Altium, eagle and PADS.
  more features to come.
- Create the panel setup.

Setup:

Select your machine and software. This selection will be stored in the software and will be your standard setting when opening the software again.

Add the components information under the component tab.

Eagle	Neoden	Components	Panel						
Feeder	Nozzle	Value	Package	X-Value	Y-Value	Height	Length	Width	
3	1	LED	1206	400	33.22	0.55			
9	2	LM358D	SO08	405	32	1.3			
3	1	10k	0603	400	40	0.4			

Feeder: Feeder number
Nozzle: Nozzle number
Value: Value as used in your CAD file
Package: Package as used in your CAD software and CSV file
X-Value: X-Position of the Feeder
Y-Value: Y-Position of the Feeder
Height: Component height/thickness
Length: Component Length
Width: Component Width

All files will be stored under \Documents\Neoden-Files

Software flow:

Click the Import button:

Import   Select the file to import.

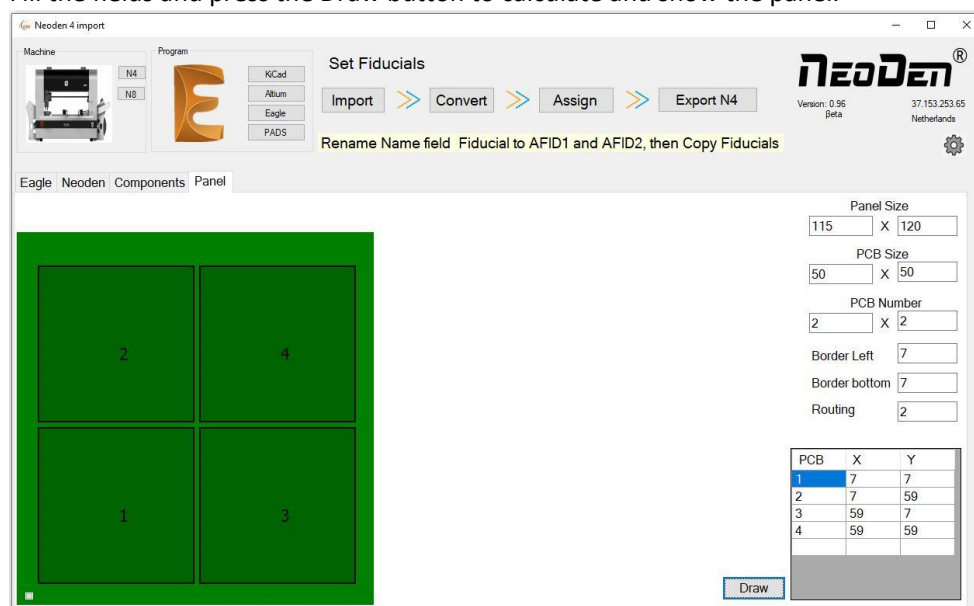Click the Convert button:

Convert   This will convert the imported data to a new table with the correct columns.

Click the Panel Button:

Panel

Fill the fields and press the Draw button to calculate and show the panel.

Click the Assign button:

Assign   All matching information from the Component list will be added to the table.

When the size is not filled a popup screen will ask for the size of the board/panel.

In this step the component positions from the CSV are recalculated to the machine coordinates.

Copy Fiducials   If the design has fiducials and the name starts with FID or AFID this button can copy both the fiducial positions.

Fiducials

Fiducial 1 X [   ]   Y [   ]

Fiducial 2 X [   ]   Y [   ]

When the fiducials have a different name you can first select the fiducial 1 field and then double click the fiducial name. This will copy the X and Y to the fiducial fields.

The Neoden does not allow empty fields. The empty fields can be filled manually, or you can use the quick fill button to add a 1 to all the empty fields.

Click the Export button:

Export N4   The file will be exported to the folder \Documents\Neoden-Files

File name is output.CSV

Folder will be opened.