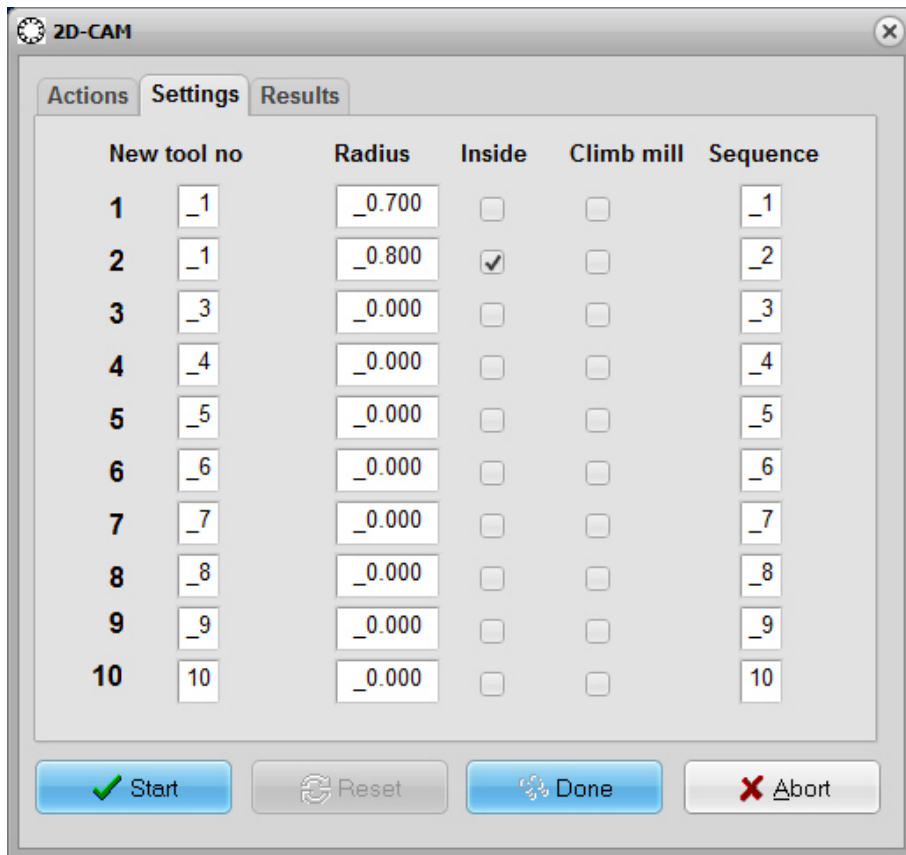


2D CAM Settings



The image shows a software dialog box titled "2D-CAM" with a close button (X) in the top right corner. It has three tabs: "Actions", "Settings", and "Results", with "Settings" currently selected. The main area contains a table with five columns: "New tool no", "Radius", "Inside", "Climb mill", and "Sequence". There are 10 rows of tool settings. At the bottom of the dialog are four buttons: "Start" (with a green checkmark icon), "Reset" (with a circular arrow icon), "Done" (with a gear icon), and "Abort" (with a red X icon).

	New tool no	Radius	Inside	Climb mill	Sequence
1	_1	_0.700	<input type="checkbox"/>	<input type="checkbox"/>	_1
2	_1	_0.800	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_2
3	_3	_0.000	<input type="checkbox"/>	<input type="checkbox"/>	_3
4	_4	_0.000	<input type="checkbox"/>	<input type="checkbox"/>	_4
5	_5	_0.000	<input type="checkbox"/>	<input type="checkbox"/>	_5
6	_6	_0.000	<input type="checkbox"/>	<input type="checkbox"/>	_6
7	_7	_0.000	<input type="checkbox"/>	<input type="checkbox"/>	_7
8	_8	_0.000	<input type="checkbox"/>	<input type="checkbox"/>	_8
9	_9	_0.000	<input type="checkbox"/>	<input type="checkbox"/>	_9
10	10	_0.000	<input type="checkbox"/>	<input type="checkbox"/>	10

Second dialog of CAM functions

New tool number

These input dialog boxes are responsible for resorting or summarizing existing tool or pen tool settings prior to any other functions. Sometimes it is advisable to summarize several drawing components for a tool which is to be machined for more effective processing later on.

Radius

The radius of all the used tools is defined for the radius compensation. The path which is to be recalculated is accordingly placed with contours to the inside or outside.

Inside

This button determines the direction of the relocated new path. The line offset is made to the inside if you have clicked to Inside, otherwise the line offset is made to the outside.

Climp milling

Travel direction of the milling tool along the contour is defined by climb milling and up-cut milling.

Sequence of operatione

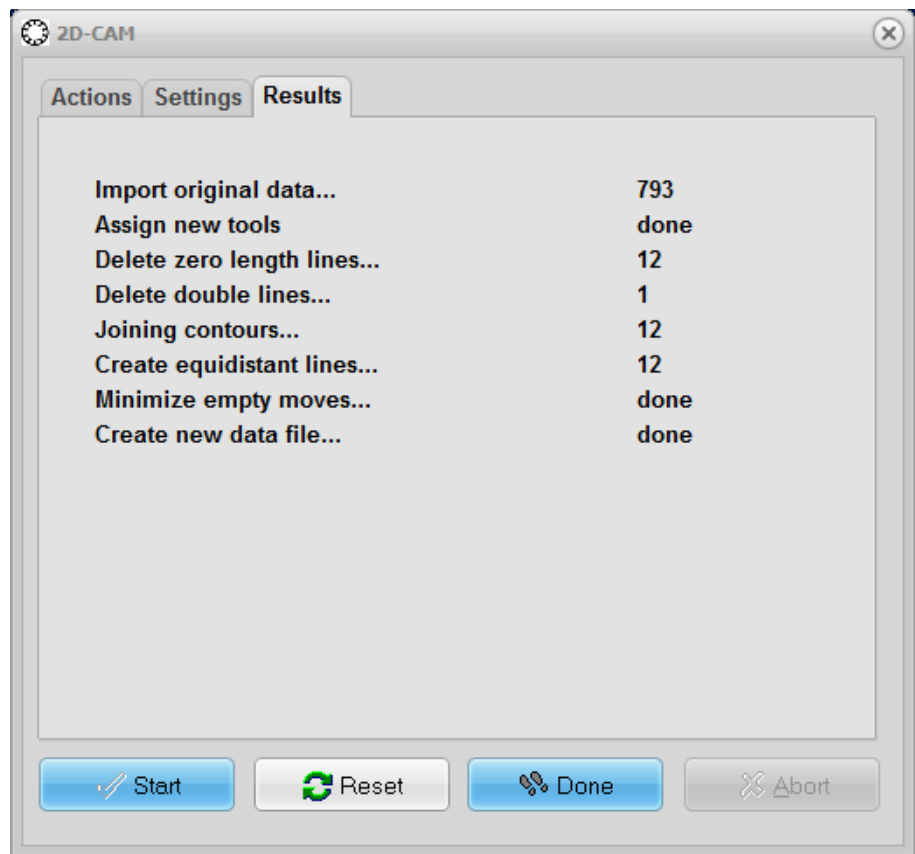
Finally the tool sequence is determined for creating the new file. All elements of this tool are always jointed and possibly an empty move optimization is carried out.

*Newly created
file
is immediately
loaded*

After completion of all required calculations and resortings **WinPCNC** creates a new 2D file in an intern used format and gives the preceding name of the project and the ending *.OPT.

During the process or after intermediate steps it is possible to make a reset to the original file and the original display and to execute repetitions with changed values and functions. For these procedures the buttons START, RESET, DONE and ABORT are applicable.

Using the START button means commencing the calculations and all activated functions are carried out according to the required subsequence. The progress bar indicating the actual state and provisional results is displayed on the result sheet of the dialog box. Cancellation can always be effected by clicking to the corresponding button.



Display of results

Having successfully calculated and generated the new file, the contours are immediately visible in the graphics display and the corresponding result can be checked. Subsequently it is possible to start a recalculation with modified settings or activate EXIT for adopting the results by using the buttons RESET and DONE.

Functions as required and in any possible combination

Due to the activation of individual functions it is possible to use any kind of compilation and combination according to data file and requirement.

For example concerning the drilling data of a board you have just to start the empty move optimization. In order to achieve a better surface result with millings and engravings you have to clean up the data and join contours or lines. Alternatively you just modify the processing sequence.