

VeraCAD Technology Chat

Title: Initial contact
Type: Basic technology
Version: V3.79 and later
Language: English
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Explanation of Initial contact

When using the “Calculate Initial contact” feature in VeraCAD, the software will calculate the first contact between workpiece and tool segment. Two values are calculated, a rotation angle Alpha and a translation value X. These values are explained in the picture below and also listed in VeraCAD at the table under the View Information.

Please notice, that for calculation of the initial contact the workpiece from previous pass is used and this workpiece is rotated by 90° as in normal reducer rolling process.

For advanced users and more precise calculation an option is available where the VeraCAD workpiece can be exchanged by a workpiece coming from FEM-simulation. In order to use this option, the external geometry must be provided via an STL-File.

