

Integration TDM - Vericut

Data Interface

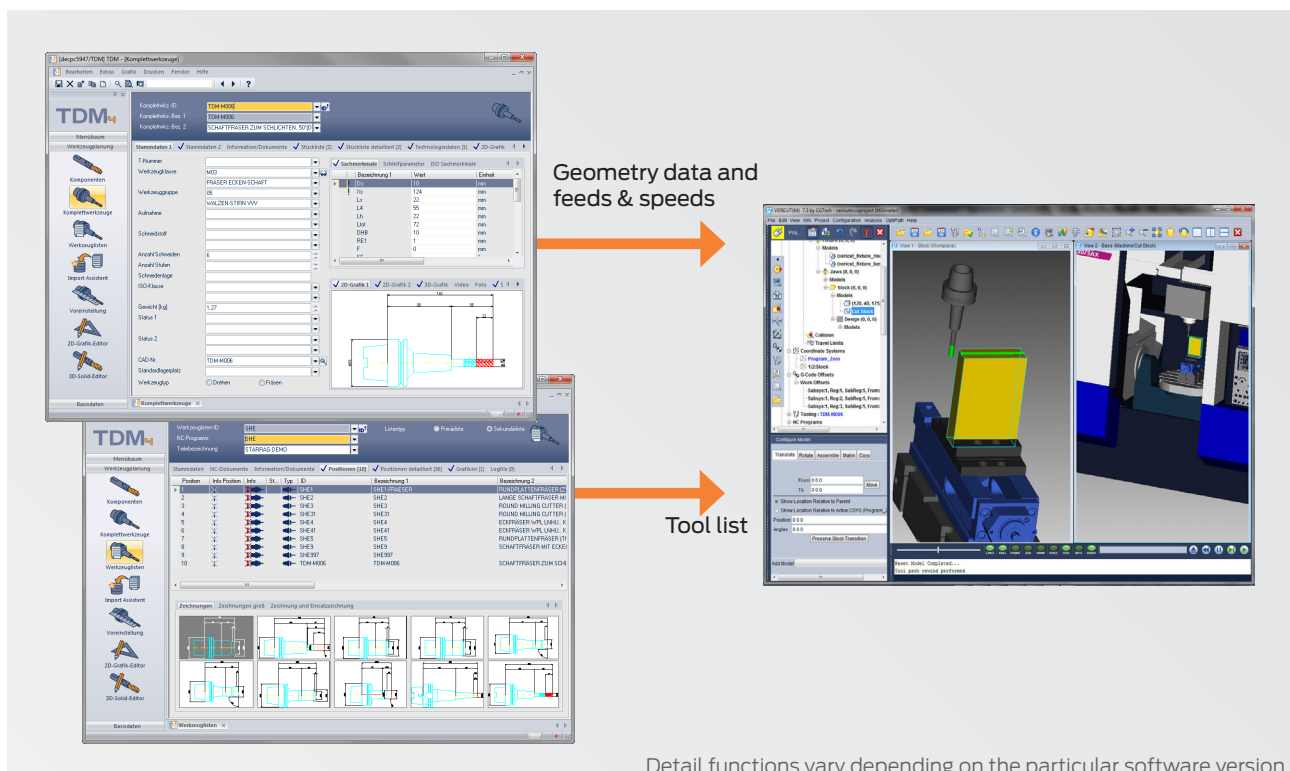
TDM supports Vericut users with the data and CAD interface modules for the online transfer of the tool parameters and graphics.

The basis: Data Interface

The TDM interface - Vericut supports your continuous CAM/simulation process via access to the tool data in your central tool database. The software provides company-specific tool know how in the phases of the CAM planning process.

Functions of the Data Interface TDM - Vericut

- Support of NC programmers with direct access to the TDM database
- Simple and fast selection of the tools within a tool list (needed tools from the NC program) from Vericut via the Search Panel
- Access to geometry data and machining know how (cutting data)
- Integrated, expandable mapping of the tool types and characteristics between TDM and Vericut with comprehensive documentation
- For drilling and milling tools, TDM generates the specific TLS file for Vericut, so that the geometry is directly available in the native format (optional, only in conjunction with the TDM Tool Contour Generator)



Integration TDM - Vericut CAD Features

The extension: CAD features

The TDM 3D-Solid Converter for Vericut gives Vericut users a new dimension in the use of complex 3D-tools in programming and simulation. Building on the data interface, the integrated software tools for automatic conversion and for manual editing of 3D-tool graphics offer substantial time savings and quality improvements in daily operation.

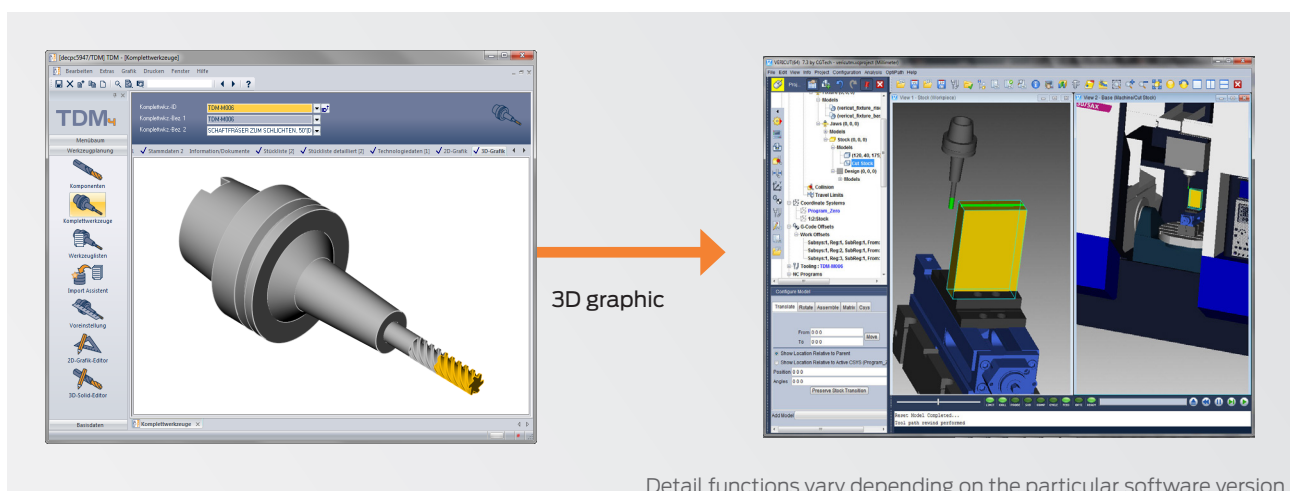
TDM 3D-Solid Converter software package

- The TDM 3D-Solid Converter was developed especially for stationary and rotating tool assemblies (turning, drilling, milling). The 3D-tool solids are prepared in TDM according to the requirements of the Vericut simulation software and then loaded to Vericut. The conversion of the 3D-solids is completed in 2 steps:
A Step file of the 3D-tool solid is created in the first step in TDM. This is then converted in Vericut into the Vericut native format. This way the 3D-solid can be loaded directly into the simulation analysis and can be used immediately.

- With the integrated editing functions, 2D graphics and 3D solids can easily be adapted and corrected in TDM.
Corrections of layers, drawings, dimensions, axial orientations and zero points make it possible to quickly prepare existing drawings and models in a targeted manner in accordance with the TDM standard for subsequent use by the TDM 3D-Solid Converter and in Vericut.

Advantages of the TDM - integration Vericut

- Simulation with all required tool data
- Reduced effort in the simulation
- Common database for NC programming, simulation, presetting and machining
- Reliable results: Only with 3D-graphics of real tools your simulation is safe!
- Time savings
- Reduction of machine down times
- Avoidance of collisions during the machining
- The tools are directly available for the NC project



Detail functions vary depending on the particular software version