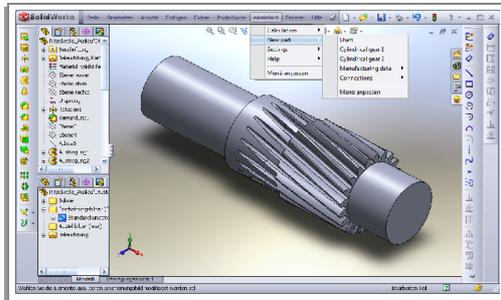


The eAssistant CAD Plugin for SolidWorks

The Intelligent Connection of Calculation and CAD

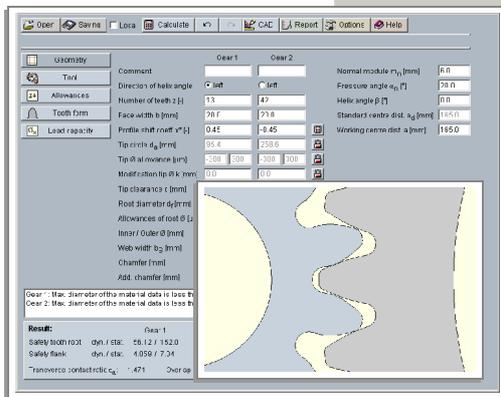


CAD Plugin for SolidWorks

The eAssistant plugin for the CAD system SolidWorks enables to combine calculation and design very easily and intelligent. The plugin allows the

- design,
- calculation as well
- optimization

of a wide range of machine elements directly in SolidWorks.

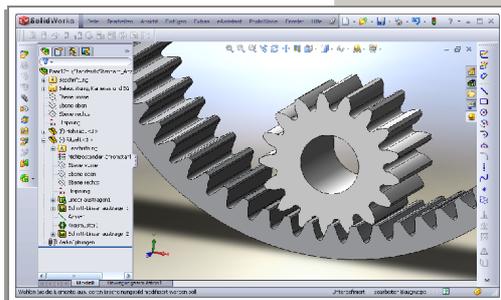


The reports are based on generally accepted calculation methods (e.g., DIN and ISO standards) as well accepted literature.

Detailed reports in HTML and PDF format provide all results and input values for the documentation.

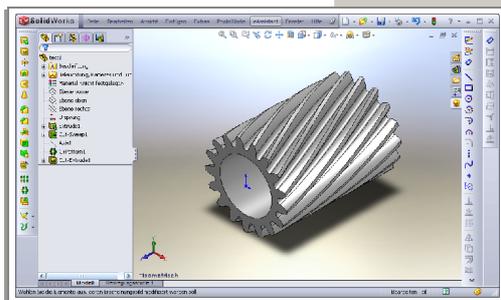
Direct Start

The plugin enables the user to open all eAssistant modules directly through the SolidWorks menu. At the push of the button, the part can be created as a 3D part on the basis of the calculated data.



Gearings

Considering tolerances, addendum chamfer and profile modification, the geometry for spur gear pairs and splined shafts can be calculated up to the accurate tooth form. An animation / simulation of the tooth mesh is also possible. For this representation, the user can select the minimum, middle and maximum allowances for the tooth thickness and centre distance.



3D Models

External and internal gears as well as cylindrical and helical gears can be created automatically as a 3D part. Addendum chamfer and shaft bore will be considered. In case changes are required after the generation of the 3D model, the model can be easily updated based on the modified calculation.

