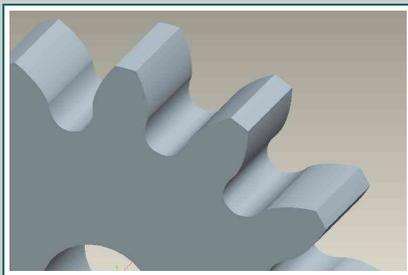
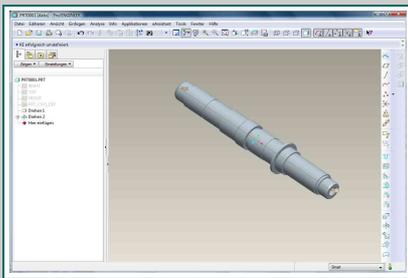


eAssistant / TBK 2014 CAD Plugin for Creo Parametric

CAD Plugin for Creo Parametric

The CAD plugin for Creo Parametric offers a great way to connect calculation and design. Together with TBK 2014 or the web-based calculation software eAssistant, the CAD plugin allows to dimension, calculate and optimize various machine elements directly in Creo Parametric.

The calculations are based on generally accepted calculation methods (e.g., DIN, ISO, VDI, ...) as well accepted literature. Detailed reports in HTML and PDF format provide all results and input values for the documentation.

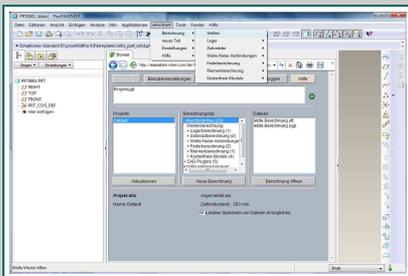


Direct Start

The plugin enables the user to open all eAssistant/TBK 2014 calculation modules directly through the Creo Parametric menu. At the push of the button, the part can be created as a 3D part on the basis of the previously calculated data.

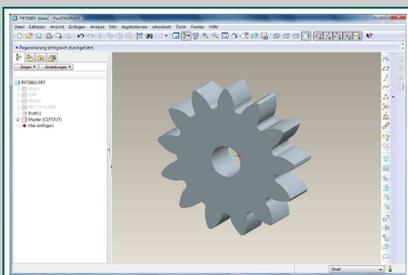
Gears

The geometry of cylindrical gears and involute splines, including allowances, addendum chamfer, profile shift and accurate gear tooth form, can be easily calculated. Animation/simulation of the gear tooth mesh is also possible. For this representation, the user can select the minimum, mean and maximum allowances for the tooth thickness and centre distance.



3D Models

External and internal spur gears can be created as a feature-based 3D part in Creo Parametric. This includes addendum chamfer and shaft bore.

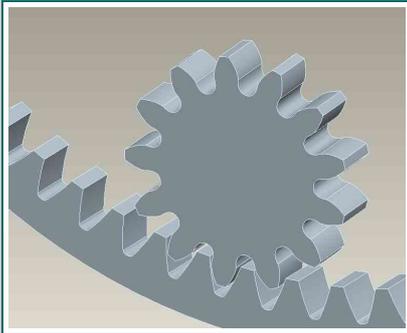


Solid and Hollow Shafts

The CAD plugin provides a very fast and comfortable generation of 3D shafts. Solid and hollow shafts with an unlimited number of cylindrical and conical shaft segments can be created as a 3D part in Creo Parametric.

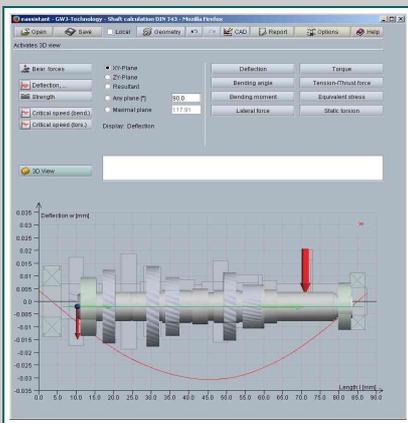
Serrated and Splined Shafts

For serrated and splined shaft connections, the shaft and hub profile can be generated as native 3D models based on the calculation. These can be also created in an already existing part.



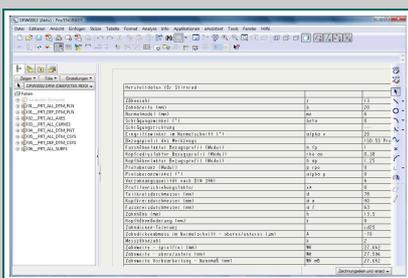
Intelligent Parts

The calculation information is saved in the 3D model and can be opened at any time throughout the entire design phase. If a component contains several different calculation elements, it is possible to open the corresponding calculations.



Manufacturing Data in 2D

With just one click, the design table with all manufacturing details of cylindrical gears and involute splines can be placed on the manufacturing drawing. The appearance and size of that table is individually configurable. The advantage is that there is no need to manually add all design table parameters to the drawing.



A Qualified Team!

Focusing on mechanical engineering, GWJ Technology stands for high quality products and innovative software development. With keen insight and high energy, we put our utmost efforts, skills, knowledge and passion into our work to achieve top quality products. In addition, we also share our knowledge and insights through regular seminars, workshops and engineering services.

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