

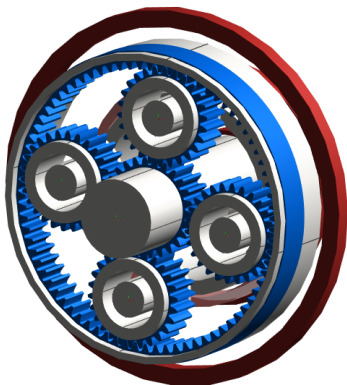
Highlights KISSsoft Release 2019

The beta version of the KISSsoft Release 2019 will be available for testing from April 12th. Apply as a beta tester at www.KISSsoft.AG and help us shape the upcoming release. Let us share knowledge.

Concept design on system level

- Fast setup of a gearbox concept
- Easy modification possibilities of single parts
- Intuitive handling

In KISSsoft, in addition to the elementary components (gear pair, bearing or shaft/bearing system), complete gearboxes can now be designed in a separate module.



The main focus here lies on fast concept building, which is a great advantage – especially in the initial phase of a project.

Different variants of possible solutions can be roughly modeled in order to compare their main criteria.

A sketch view in the beta release 2019 of KISSsoft provides an abstract overview of the complete transmission system, whereby the individual elements of the model can be changed easily.

The representation in a tree structure allows a consideration of the shafts and their components. Great emphasis was placed on the simple and intuitive modifiability of the system.

The model is also visualized and animated in 3D. All forces and moments are displayed as needed.

This system program allows a simple modeling of entire transmissions and a quick setup of models without much prior knowledge – it stands out thanks to its intuitive handling.

Rolling bearing calculation

- Interface between SKF and KISSsoft
- Connection to SKF cloud

To simplify the gearbox development process, SKF and KISSsoft have created a new interface. This enables engineers to evaluate the appropriate bearings based on cutting-edge bearing data and SKF calculations, through a direct connection to the SKF cloud.



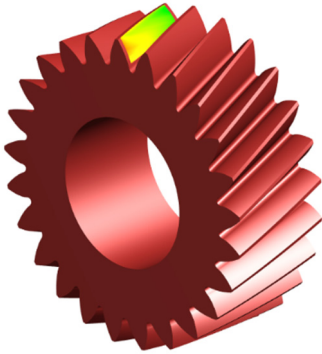
As a result, two calculation approaches are now available to the KISSsoft users: On the one hand, the usual ISO calculation and in addition, the calculation with the help of SKF's latest bearing data.

Asymmetric gears

- Contact analysis
- Consideration of deformation

KISSsoft now also offers contact analysis for asymmetric gears. This allows, in addition to the geometry and strength evaluation, the analysis of asymmetric toothing under load.

Deformation components such as bending, gear body deformation, Hertzian flattening, shaft deflection, bearing deformation and others are included in the calculation, which can be used to optimize various gear features such as noise, efficiency, contact temperature and root stress with specially selected micro-corrections.

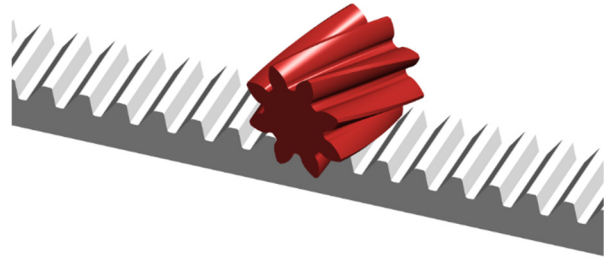


Cross-helical gear with rack

- Important for steering systems in automotive
- Efficiency calculation/optimization

The calculation possibility of cross-helical gear with rack is available in the 2019 beta release of KISSsoft.

Especially in the automotive sector, such mechanisms are often used for steering systems. With the input of the friction coefficient and the calculation of the sliding speeds as well as the forces, the efficiency of the drive can now be calculated and optimized.



Power Skiving

- Feasibility assessment
- Tool teeth number automatically determined
- Data exchange at the push of a button

KISSsoft can now evaluate the feasibility of power skiving. Especially in design solutions where there is little room for run-out tools (for example, when the shaft shoulder is very close to the pinion), KISSsoft makes it easy to verify if the skive method is well suited for a particular application.



teeth, can be determined automatically. Subsequently, a special report with workpiece and tool data can be generated. This report can be transferred to Gleason when required, making the data exchange between the designer and the tool supplier much easier and less error-prone.

If you want to apply as a beta tester, please contact us at info@KISSsoft.AG