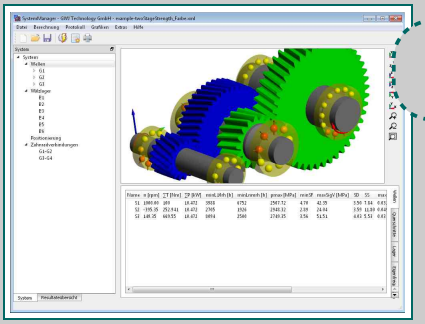
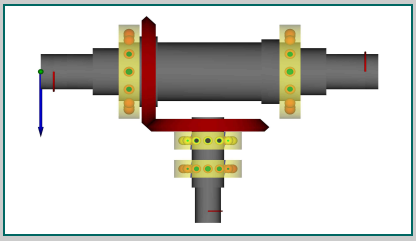
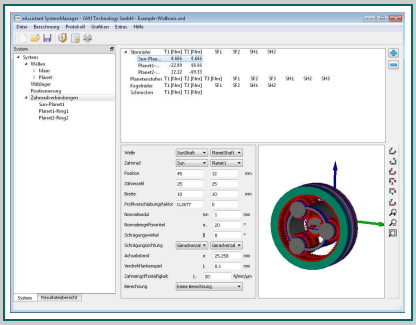
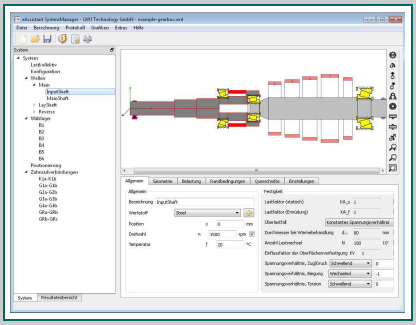
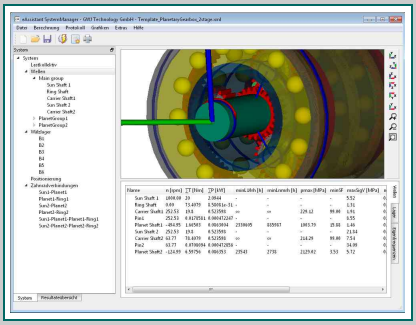






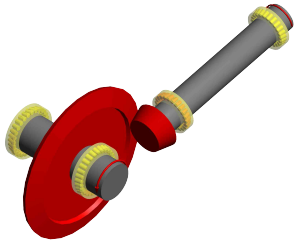




# SystemManager – Basics

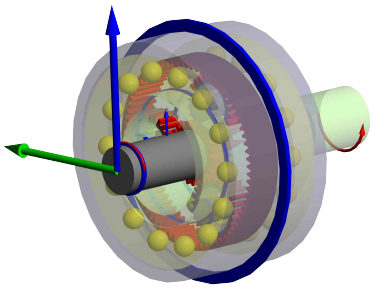
This workshop focuses on the "SystemManager" software and covers the basic information needed to start using this software application, such as the basic handling and the possibilities the software offers. No special prior knowing is required.

The seminar is for young professionals, experienced engineers, designers and technicians and is the perfect basis for the advanced course "SystemManager – In Depth".



## Main Topics

- Introduction, configuration, general settings
- Configuration of result display and graphics
- Specifications for system calculation: Weight, eigenfrequencies, housing material, temperature, necessary rating life
- Coordinate system
- Tree structure, group definition, moving and copying of shafts
- Shaft calculation: Fatigue strength, shear deformation, load spectra, lubrication, ...
- Definition of shafts: Input of geometry, import of shafts, loads, bearings/boundary conditions, non-linear bearing stiffness, ...
- Gear connections
- Positioning possibilities
- Power flow, deformations, eigenfrequencies
- Output of calculation reports and result graphics
- Draft design of cylindrical gear pairs
- Distribution of transmission ratio for cylindrical gears



**The seminar includes practical excercises with SystemManager. Individual questions are allowed and welcomed during the workshop (depending on time).**

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