

KISSsys Advanced Training

Sizing of Gearboxes with Planetary Stages

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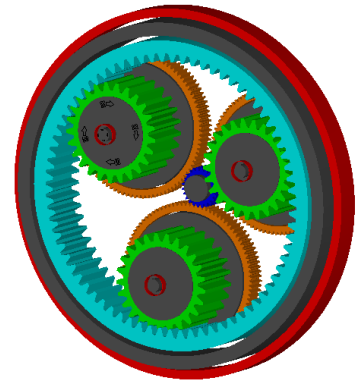
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KISSsys for Planetary Stage Gearboxes

Planetary stage gearboxes can be found in many different fields like wind turbine-, industrial-, marine-, and agricultural applications. The idea of the seminar is to give an overview about how to model different epicyclics with KISSsys. The participants will see also how to use KISSsoft optimization modules for this specialized applications.

Day 1

- Different kinematics of planetary gearboxes
 - Presentation of different epicyclic applications
 - Gearboxes in combination with cylindrical gearpairs
- Modeling of several stages
 - Kinematics using epicyclics and gear pairs
 - Compound planetary stage



Day 2

- Calculation of typical machine elements
 - Shafts with Flex pin designs
 - Roller bearing with inner geometry and modifications
- Tooth contact analysis
 - Influence of bearings, shafts and planetary carrier
 - Gear flank modification
- Load spectra calculation
 - Gears
 - Shafts and bearings
- Efficiency calculation
 - Power losses
 - Thermal rating

