

KISSsys: Modellistica di Riduttori Durata:16 ore



"Modellistica di Riduttori in KISSsys: basi, casi applicativi e hands-on session"

Introduction to KISSsys

- Key benefits
- Important settings
- User and administrator mode
- User Interface and functionalities
- Terminology
- Using existing models
- Communication with KISSsoft modules for strength analysis

Introduction to Modeling

- Plan the model
- Calculation of kinematics / power flow
- System based calculations regarding safeties, lifetime, weight and cost
- Generate user defined tables

Modeling with Single Shafts

Examples of modeling a two-stage industrial gearbox and a bevel gear stage gearbox

- Creating a proper sketch
- Building the model with different methods
- Calculating and defining the kinematics
- Geometry definition of machine elements in KISSsoft Interfaces
- Sizing of gears, positioning of shafts and bearings according to the requirements
- Generating a User Interface table with variables for system information (operating data, safeties, lifetimes)

Exercise to build a simple industrial gearbox and use the sizing functionalities

Special Kinematic Conditions

Models with One Input Two Outputs

- Definition of boundary conditions
- Controlling power distribution

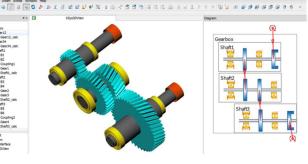
Gear Chain with Three Gears

- Handling of KISSsoft calculations
- Setting alternating bending factors

Overdefined Kinematics

• Model with powersplits







• Using of gear activation method

Coaxial Shaft Modeling

- Planetary Stage
- Important notes on the sketch
- Generation of the model, kinematics calculation
- Definition of the geometry in KISSsoft
- Modifying the positions of the groups
- Implementing of simple functions into a table
- Realization of multiple stages with spline connections
- Combination of single and coaxial shafts in one model

Summary of the first two days with a complete gearbox as an exercise.

