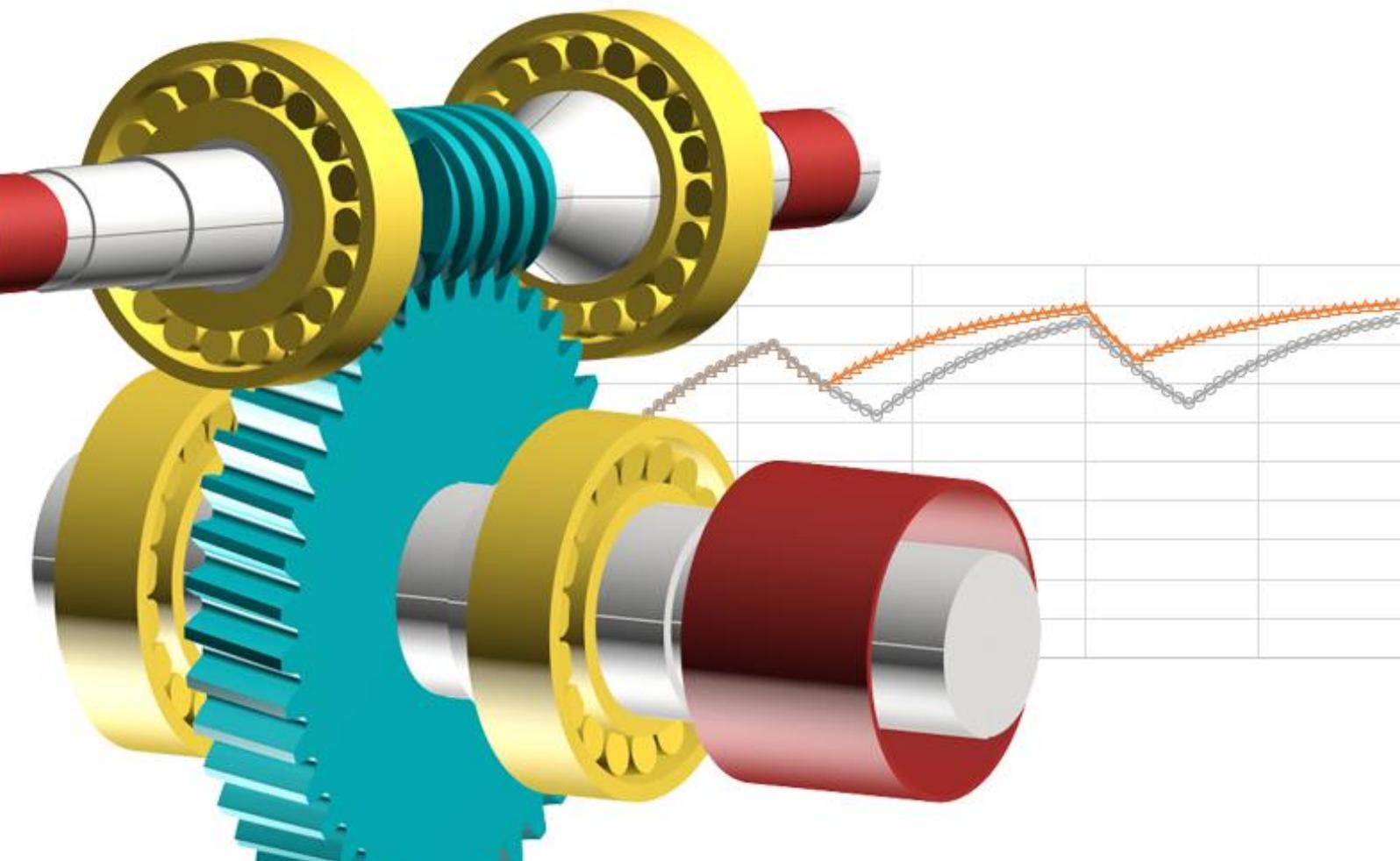


# KISSsys Live Stream Training

Advanced: System Calculations

March 23-24, 2021



## Day 1 – March 23, 2021

2:00 – 2:10 pm	Welcome, introduction
2:10 – 3:55 pm	Efficiency and thermal analysis
3:55 – 4:10 pm	Break
4:10 – 6:00 pm	Load spectrum calculation

**Exercises**      **Efficiency and load spectrum calculation**

## Day 2 – March 24, 2021

2:00 – 2:10 pm	Exercise follow up
2:10 – 3:55 pm	Housing stiffness consideration
3:55 – 4:10 pm	Break
4:10 – 6:00 pm	Modal analysis, system dynamics

**Exercises**      **Housing stiffness**  
**System dynamics**

## Efficiency and Thermal Analysis

- Calculation of gear, bearing and churning losses
- Calculation of dissipation through housing and rotating parts
- Oil temperature over time

## Load Spectrum Template

- Definition of a spectrum in KISSsys
- Calculation with different options
- Checking the result data

## Housing Stiffness

- Theory
- Characteristics of a reduced stiffness matrix
- Reading in and calculating in KISSsys

## Modal Analysis

- Calculation of system eigenfrequencies
- Generation and evaluation of Campbell Diagram

