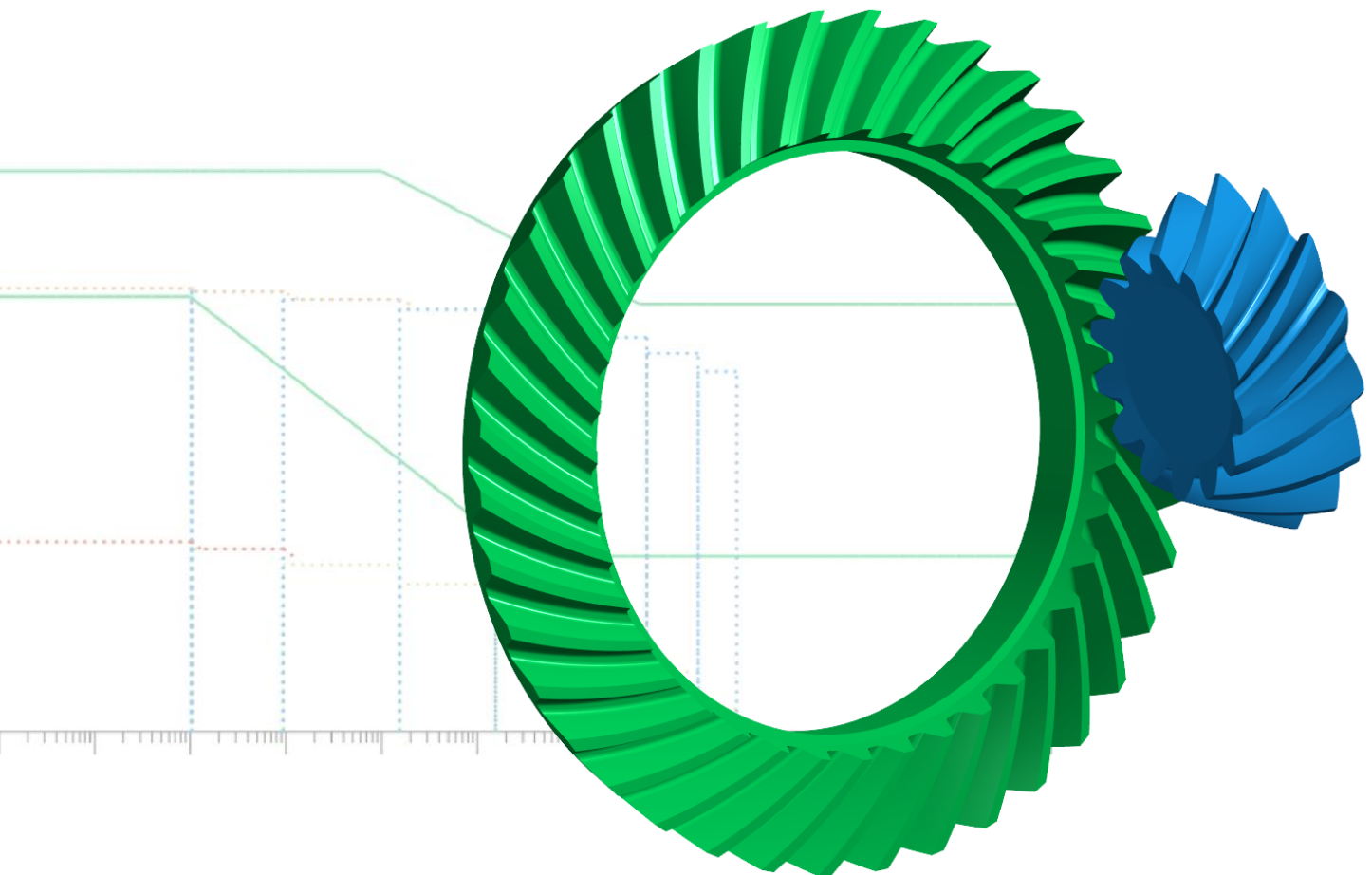


# Special Training

Bevel and Hypoid Gears

4 Live Stream Sessions



## Cutting Methods and Geometry

- Cutting methods for straight and helical bevel gears
- Cutting methods Face Hobbing, Face Milling and its specialties
- Calculation of geometry, virtual cylindrical gear

## Strength Calculation

- Strength calculation according to ISO 10300, AGMA 2003, ..
- Scuffing according to ISO/DTS 10300-20
- Flank fracture according to ISO/DTR 10300-4

## Bevel Gears Design

- Rough sizing, relevant parameters
- Fine sizing, optimization of bevel and hypoid gears
- Microgeometry

## Contact Analysis

- Contact analysis theory
- Contact pattern and transmission error
- Optimization using gear modifications

## Processes

- Design processes for conventional manufacturing and 5-Axis milling
- 3D models, check of contact lines
- Topological modifications

## Bevel Gears in Transmissions

- Bevel and hypoid gears in KISSdesign® models
- Calculation of EPG misalignments
- Interface to GEMS®