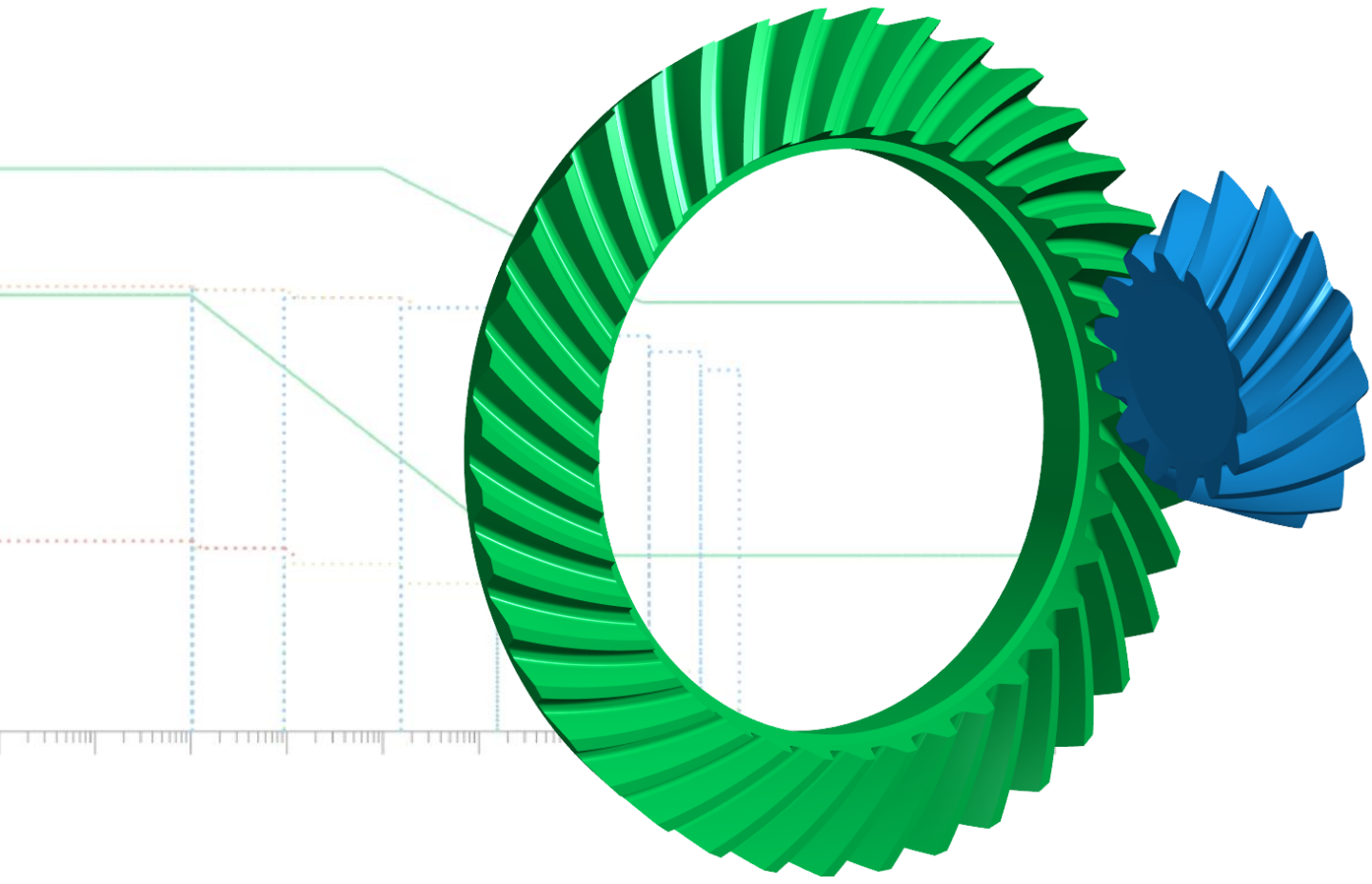
Total Gear Solutions Gleason

Special Training

Bevel and Hypoid Gears

4 Live Stream Sessions



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Sharing Knowledge

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®

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