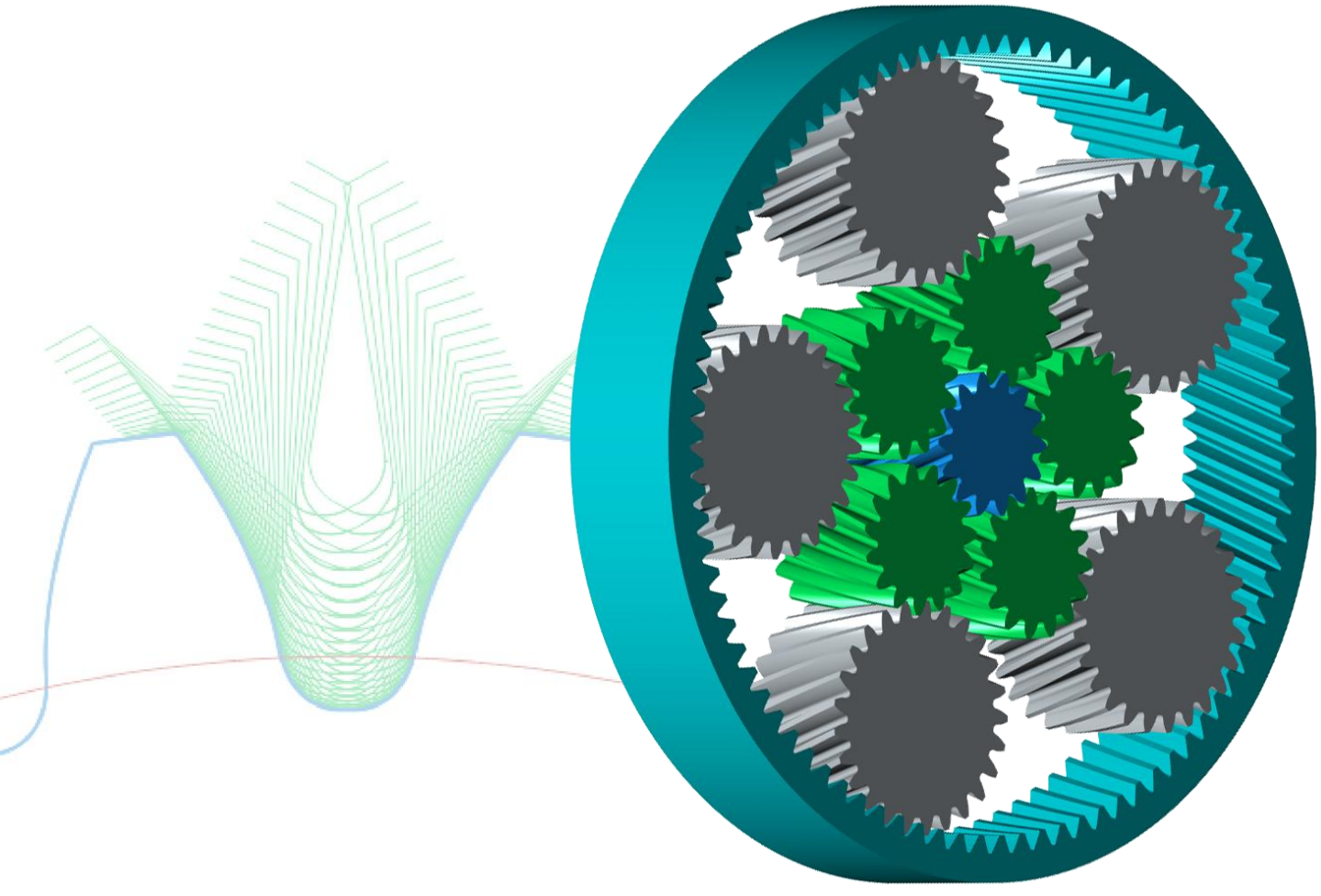
Total Gear Solutions Gleason

Advanced Training

Cylindrical Gears: Geometry

2 Live Stream Sessions



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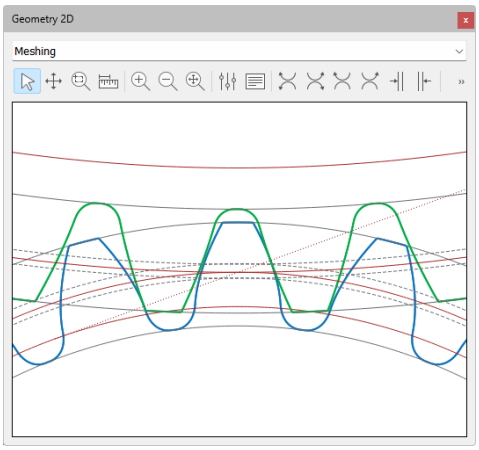
Sharing Knowledge

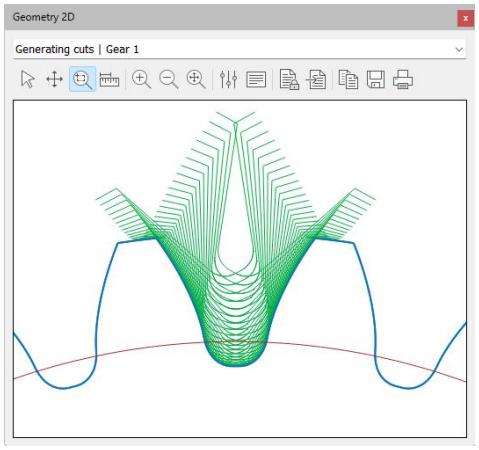
Session 1: Geometry of Cylindrical Gears with Involute Profile, Part I

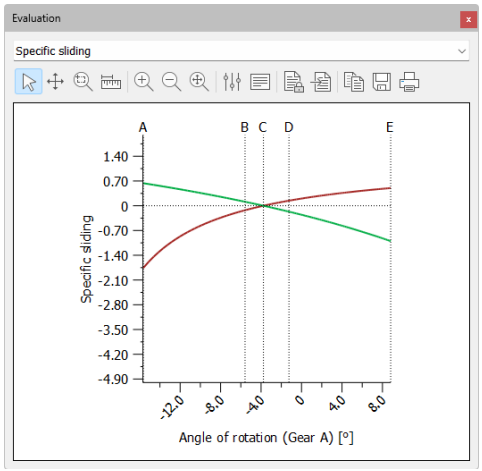
- Gearing law, Involute tooth form
- Reference profile and tool geometry
- Tooth form for spur and helical gears, external and internal gears
- Profile shift, grinding stock allowance, manufacturing profile shift
- Sizing profile shift coefficient and deep tooth form
- Path of contact, specific sliding
- Definition of various circles
- User interface and special calculations: Basic data tab, Reference profile tab, Various graphics, Geometry manager, Tooth form export, Module specific settings

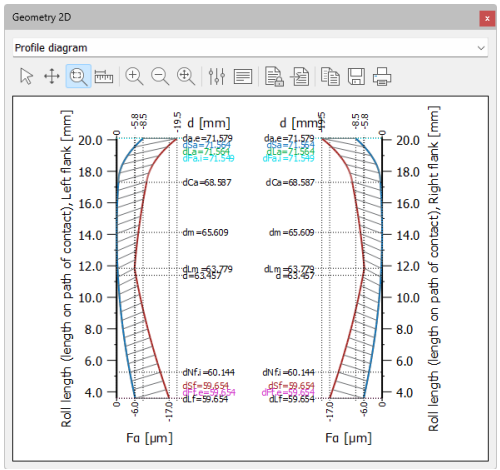
Session 2: Geometry of Cylindrical Gears with Involute Profile, Part II

- Theoretical and operating backlash, tip clearance
- Quality and tolerances, tooth thickness measurement
- Tooth flank modifications (Profile and flank line modifications)
- Manufacturing deviations
- Profile and flank line diagram (K chart)
- User interface and special calculations: Manufacturing tab, Tolerances tab, Modifications tab, Tooth form tab, Operating backlash, Measurement grid export









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