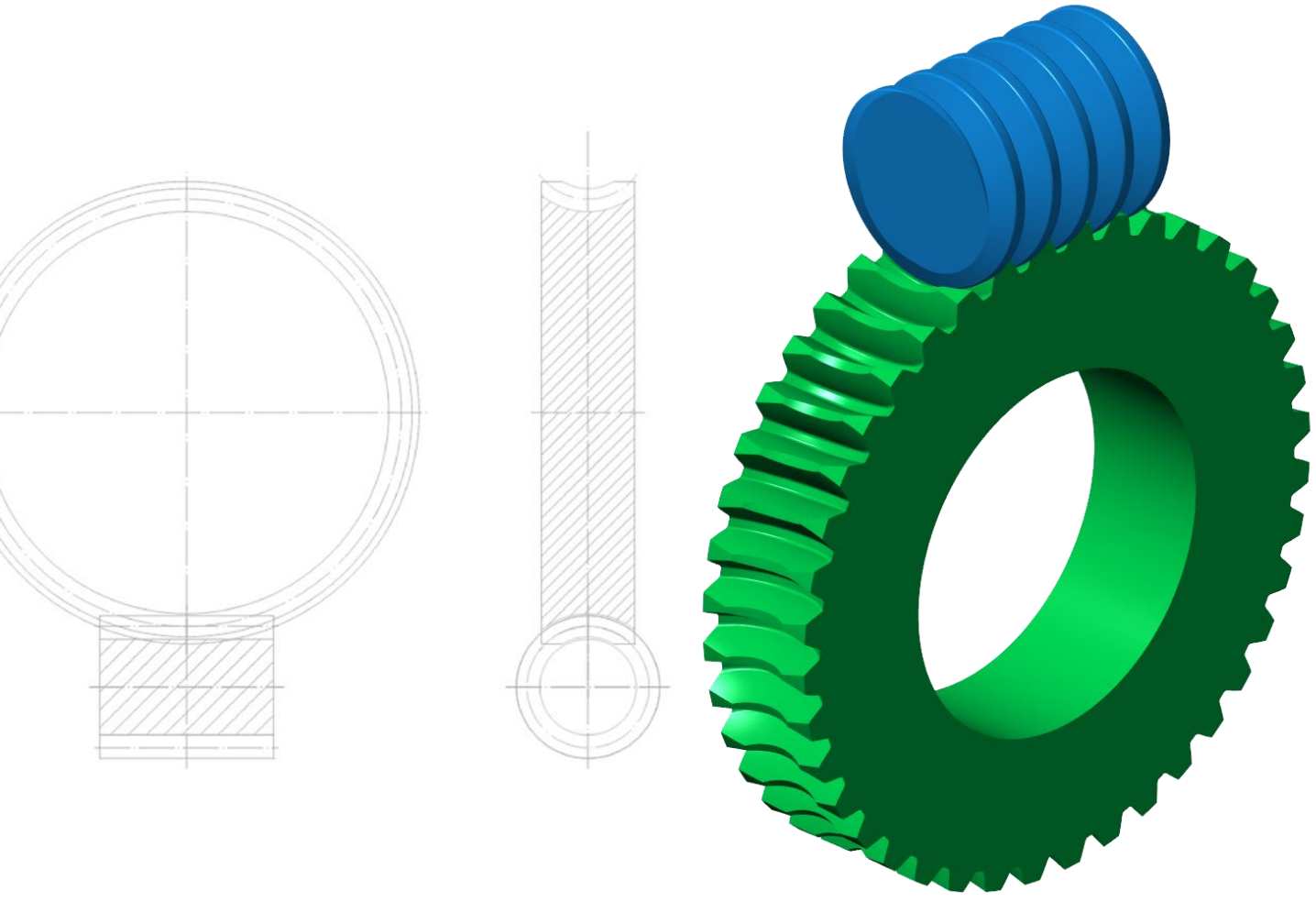
Total Gear Solutions Gleason

Special Training

Cylindrical Worm wheels and Crossed Helical Gears

2 Live Stream Sessions



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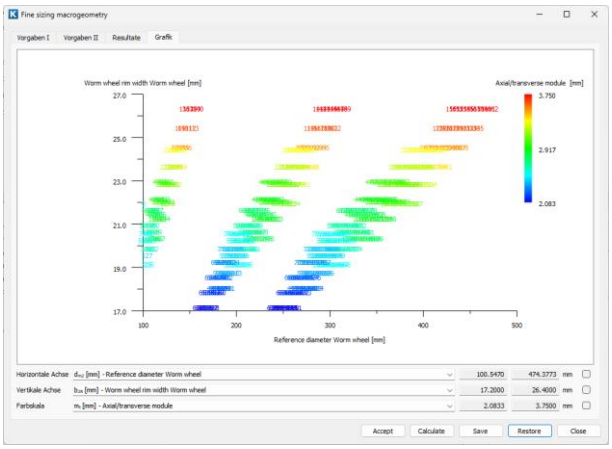
Sharing Knowledge

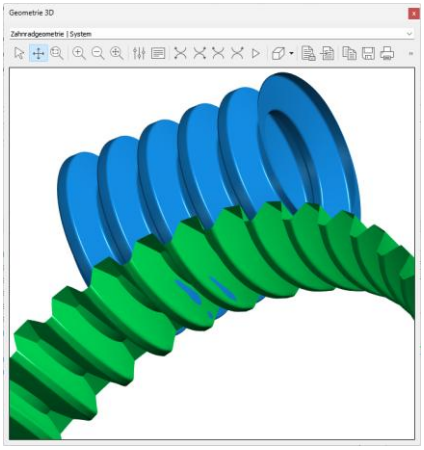
Session 1:

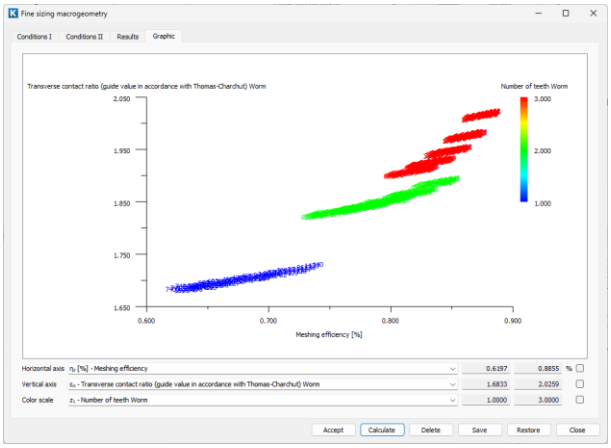
- Special characteristics/problems of crossed helical gear pairs (fine pitch worm wheels)
- Properties of the crossed helical gear pair (contact ratio)
- Properties of cylindrical worm wheels with enveloping worm wheel
- Properties of cylindrical worm wheel pairs (contact ratio)
- Flanke shapes for cylindrical worms
- Forces on worm wheel/ crossed helical gear pairs
- Efficiency

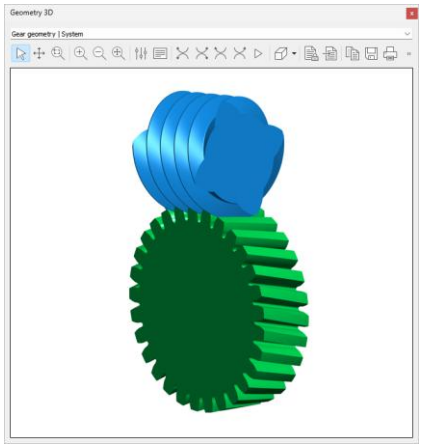
Session 2:

- Rough and fine sizing of geometry, optimization of crossed helical gears (fine pitch worm wheels)
- Rough and fine sizing of geometry, optimization of cylindrical worm wheels
- Calculation of load capacity of crossed helical gears
- Calculation of load capacity of cylindrical worm wheels
- Determination of contact pattern (using 3D models with skin option)









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