

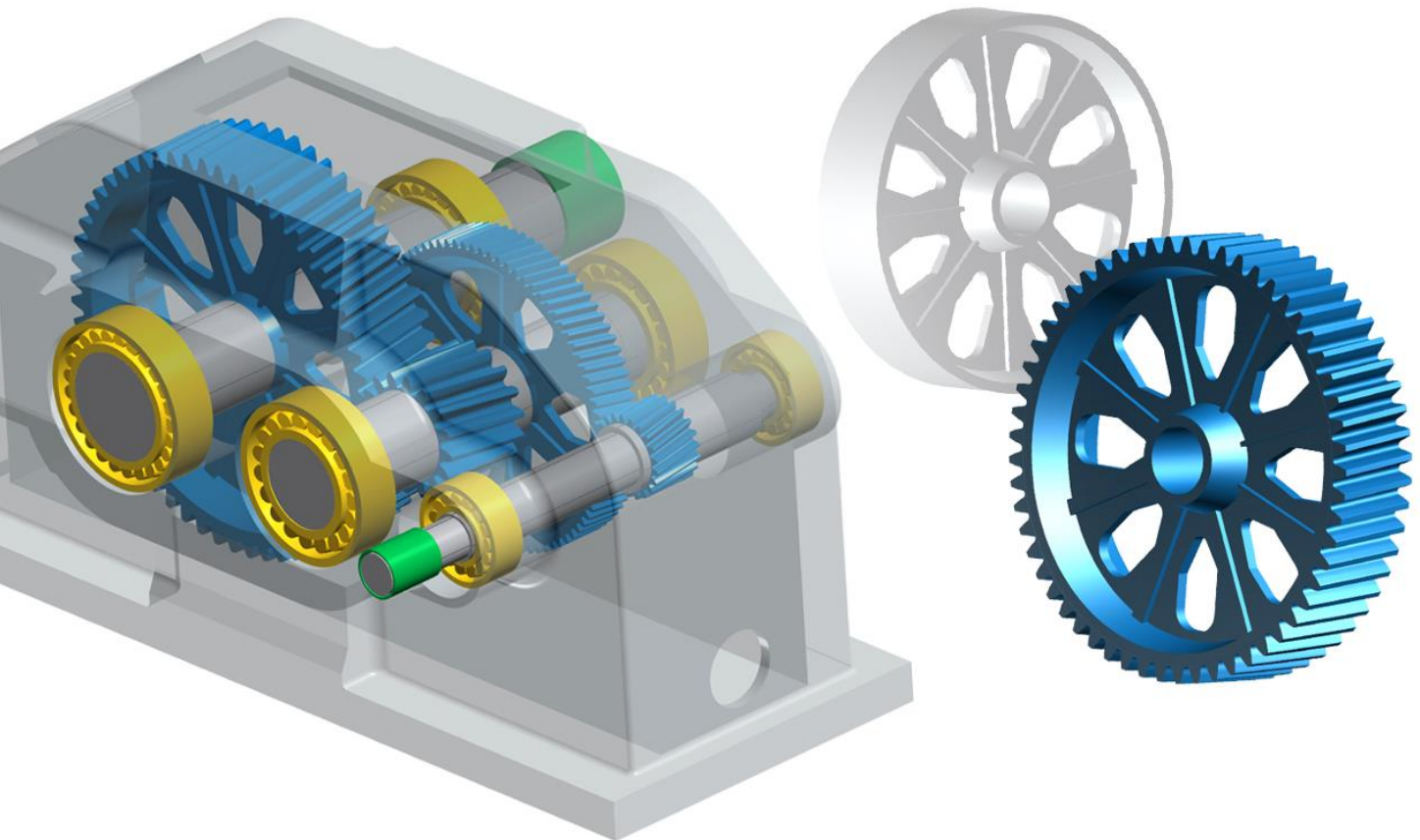
A Gleason Company

KISSsoft

KISSsoft Training

KISSdesign – Package 2:
Housing Deformation and Gear Body

1 Day



KISSdesign Housing Deformation

- Theory about housing stiffness consideration
- Reading in a housing stiffness matrix
- Positioning master nodes
- Calculations considering housing stiffness

Gear Body Consideration

- Theory about gear body deformation
 - Defining the gear body geometry manually
 - Reading in the gear body geometry as step file
 - Calculations considering gear body stiffness
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- Case study with housing and gear body stiffness considerations

Sketcher 3D Viewer Boundary System data Housing deformation

Select housing: HousingSteel
Stiffness matrix file: 06 Housing stiffness matrix.txt
System of units: MPA
Convergence accuracy: low
Maximum number of iterations: 12
Positioning tolerance: 1.0000 mm

Node ID	Bearing	X (FEM) [mm]	Y (FEM) [mm]	Z (FEM) [mm]
1	b1	0.0000	11.5000	0.0000
2	b2	0.0000	291.0000	0.0000
3	b3	0.0000	356.5000	0.0000
4	b4	0.0000	480.0000	0.0000
5	b5	84.3727	343.9950	59.0784
6	b6	84.3727	478.0000	59.0784
7	b7	213.9301	297.0000	-15.7216
8	b8	213.9301	433.0000	-15.7216

