

## Non-circular gears

Non-circular gears can be calculated in KISSsoft based on an operating pitch curve. Gears may be closed or open.

### Design of geometry

- Required momentary ratio may be defined
- Required meshing curve may be defined

### From there, the following is calculated

- Calculation of meshing curve from momentary ratio
- Calculation of shaping cutter from gear / tooth data
- Calculation of backlash such that no jamming occurs
- Calculation of non-circular gear contour
- Export to CAD with different levels of accuracy (up to 800 points per flank)
- Add tip rounding
- Modify root geometry to increase strength
- Check of meshing / collisions in 2D
- Calculation of position of rolls for dimension over rolls measuring



