

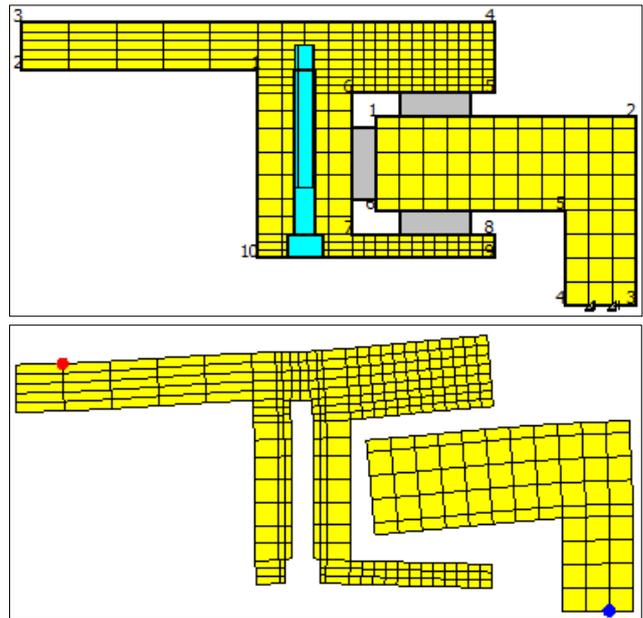
Rolling bearing calculations for axial-radial cylindrical roller bearings

The calculation software for axial-radial cylindrical roller bearings considers deformations of the bearing rings based on a finite element calculation. The geometry of rotationally symmetric construction parts can be defined by means of polygonal lines by the user. It is possible to define an arbitrary number of axial and radial cylindrical roller bearings or crossed roller bearings in which the bolt pre-tension of a bolted joint is taken into account.

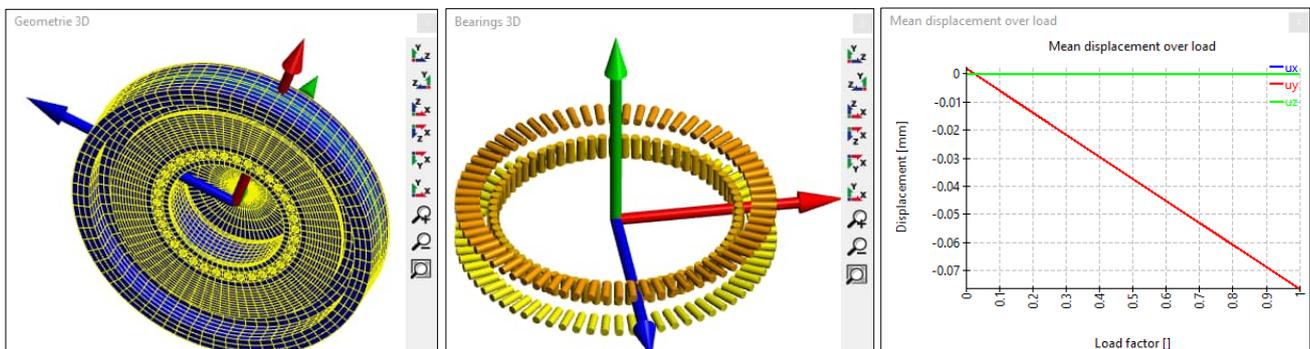
Loads can be defined either on surfaces or in singular points. For the definition of stiffness, a calculation of a series with variation of load and a load spectrum calculation is possible.

By means of several graphics and a PDF-report the following results are available:

- The load distribution on the rollers over the roller length as well as over the extent of the bearing
- The life expectancy for each bearing row and the system according to the ISO 16281
- The deformation and the stiffness defined through two arbitrary eligible points
- The maximum and minimum screw load
- The graphic display of the exaggerated deformations either in 3D or in 2D-view of the axial section in accordance with a chosen angle



A demo version and the software documentation are available as download on the website. Please contact us for a test version without restrictions.



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