

Design and examples of bearing arrangements

Spindle calculation using BEARINX

Spindle calculation by means of BEARINX, Figure 3 and Figure 4, offers:

- recommendations for mounting fits as a function of the specified speed
- calculation of design parameters for contact pressure and kinematics in the bearing
- kinematic bearing frequencies for vibration analyses
 - calculation of the rigidity of the bearing arrangement at the operating point taking account of all relevant influences
- diagrammatic shaft responses such as shaft deflection and shaft inclination
- critical whirling speeds and the diagrammatic representation of the natural mode
 - calculation of the fatigue life in accordance with DIN ISO 281, Appendix 4
 - many other pieces of additional information.

Figure Deflection of the shaft

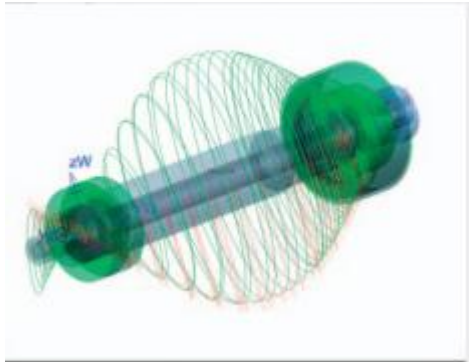


Figure Calculation of the load distribution

