

3 Selection of rolling bearing

3.1 Sequence of bearing selection

Bearings have many types, dimension ranges are widely applied to different kinds of mechanical Devices, instrument and equipment. The qualification and performance requirements for bearings are being diversified. How to choose the most suitable bearing type from numerous structures and dimensions of bearing is especially important.

Bearing selection should consider from different kinds of factors, firstly of bearing arrangement, mounting, dismounting, allowable space, dimension

and market conditions shall be taken as the key points of bearing's structures selection ; secondly, decide bearing's dimension by comparing the various designed-lives of the machine and fatigue lives of bearings; meanwhile attention shall be paid to the lubricating degradation caused by service life , Abrasion and noise; according to different uses, it is necessary to select bearings for special requirements such as accuracy, clearance, cage, lubricating grease, etc. In case of other special requirements, please contact the technical center of C&U Group.

The general situation, selecting bearing shall approximately obey the following rules. See Figure 3.1.

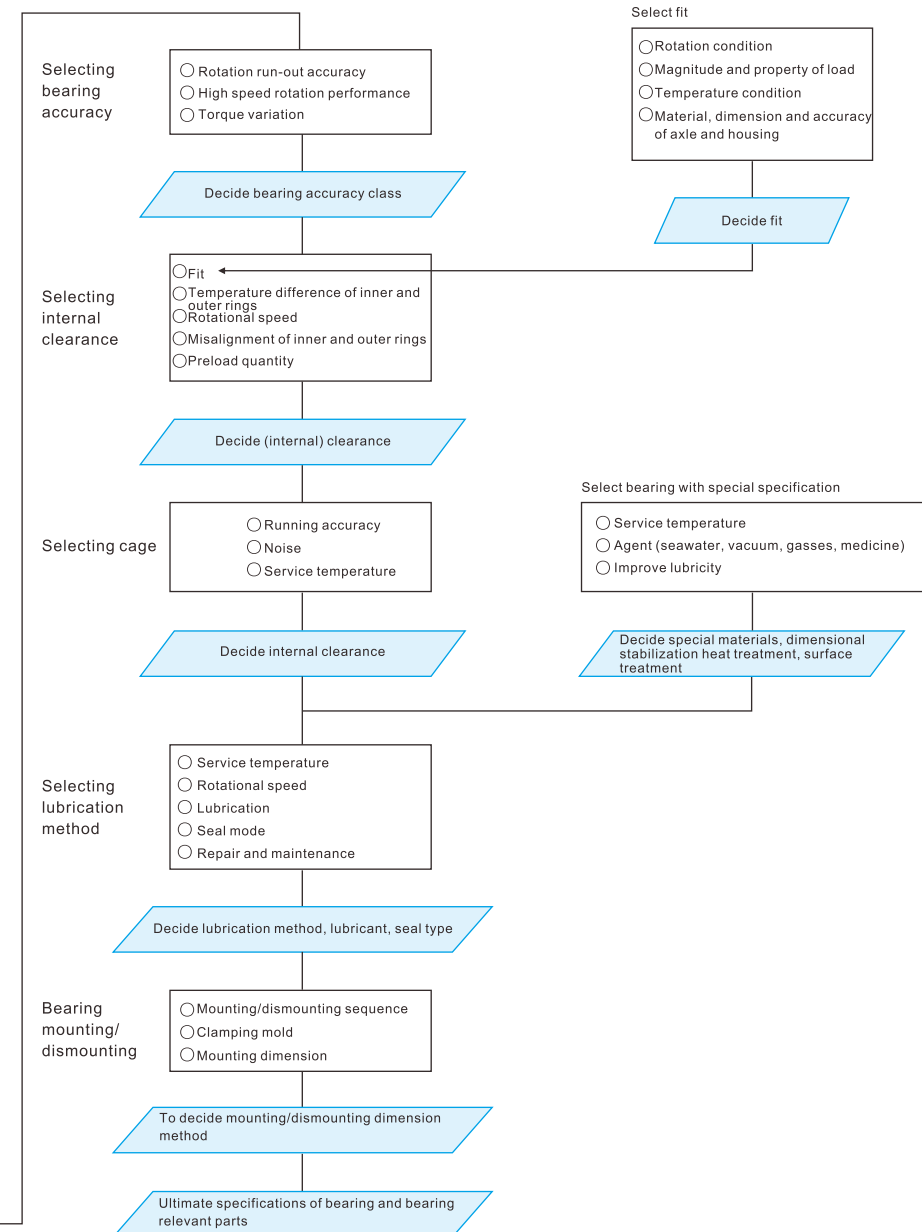
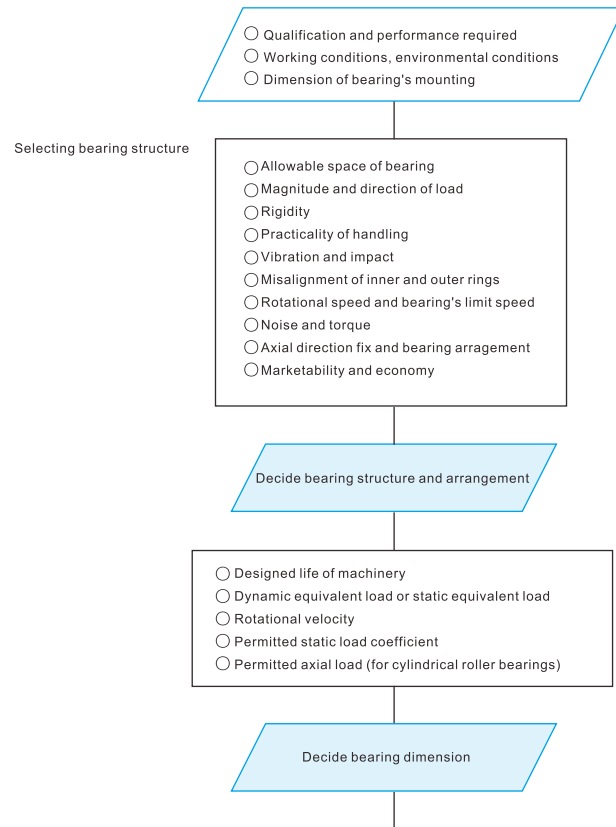


Fig. 3.1 Steps and focus on selecting rolling bearings