

# Spherical Roller Thrust Bearings

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Because there are many sliding surfaces in Spherical Roller Thrust Bearings (cage-to-guide-sleeve and roller-ends-to-rib), oil lubricant (not grease) should be used.



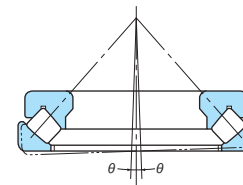
● **Aligning angle**

Maximum permissible misalignment angle is about 2° under general service conditions. If the aligning advantages of this bearing type are to be realized, care must be taken to provide clearance for parts in the surrounding structure.

● **Minimum axial load**

To prevent damage caused by sliding motion between the rollers and raceway, spherical roller thrust bearings must be subjected to a load more than the minimum load,  $F_{a \min}$ .

$$F_{a \min} = \frac{C_{oa}}{1000}$$



- The safety-factor “ $S_0$ ” must be over 4.

