

SKF Single row angular contact ball bearing Series: 70

Angular contact ball bearings have raceways in the inner and outer rings that are displaced relative to each other in the direction of the bearing axis. This means that they are designed to accommodate combined loads, i.e. simultaneously acting radial and axial loads. The axial load carrying capacity of angular contact ball bearings increases with increasing contact angle. The contact angle is defined as the angle between the line joining the points of contact of the ball and the raceways in the radial plane, along which the load is transmitted from one raceway to another, and a line perpendicular to the bearing axis. Angular contact ball bearings are manufactured in a wide variety of designs and sizes. The most commonly used designs are:

- single row angular contact ball bearings
- double row angular contact ball bearings
- four-point contact ball bearings

Single row angular contact ball bearings

Single row angular contact ball bearings can accommodate axial loads acting in one direction only. A single row bearing is typically adjusted against a second bearing. The bearings are non-separable and the bearing rings have one high and one low shoulder. The low shoulder enables a large number of balls to be incorporated in the bearing, giving it a relatively high load carrying capacity. The bearings are designed as standard with three contact angle indications. The most common versions have a contact angle of 40°. Larger bearings usually have contact angles of 25° or 30°.

Characteristics

Series: 70

With sealing: No

Application

- Recommended in: Chemical