

Angular Contact Ball Bearings KG



The raceway of both inner and outer rings of Angular Contact Ball Bearings is designed to maintain a specific contact angle between the balls and raceways, in the radial plane.

Standard cage materials for this type are pressed steel, high strength brass or synthetic resin. In comparison to a Deep Groove Ball Bearing, Angular Contact type generally carries more number of rolling elements (balls), and is capable of sustaining radial, axial or composite loads.

Angular Contact Ball Bearings are classified into three sub-categories:

1. Single Row

They have three different contact angle classifications:

Contact Angle Symbol	Contact Angle
A	30 degrees
B	40 degrees
C	15 degrees
AC	25 degrees

2. Double Row

They have two different contact angle classifications:

Contact Angle Symbol	Contact Angle
None	20 degrees
A	30 degrees

3. Combination Type

Generally, Single Row Angular Contact Ball Bearings are used in combination of two or more units.

Three different combinations are available:

Configuration	Load Capacity
Back-to-back	Bi-directional axial
Face-to-face	Bi-directional axial
Tandem	Uni-directional axial

KG can offer the following variants:

- Single Row 70xx, 72xx and 73xx series.
- With A, B, C and AC contact angle.
- Double Row types with ball slot (32xx and 33xx Series) and without ball slot (52xx and 53xx series) design.
- Close types with rubber seal and shield design.
- Standard precision grade (ISO Grade P0 – ABEC1) and higher precision grade (ISO Grade P6 – ABEC3) used in combination
- Pressed steel, polyamide and brass cage