

## SKF Double row angular contact ball bearing Series: 54

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

### Double row angular contact ball bearing

Double row angular contact ball bearings correspond in design to two single row angular contact ball bearings arranged back-to-back, but take up less axial space. They can accommodate radial loads as well as axial loads acting in both directions. They provide stiff bearing arrangements and are able to accommodate tilting moments. The bearings are available in a basic open and a sealed design. Basic design bearings of the 32 and 33 series have a 30° contact angle, have an optimized internal geometry to provide high radial and axial load carrying capacity and quiet operation. The bearings are also available capped with a contact seal or shield. Bearings capped on both sides are lubricated for life and are considered virtually maintenance free.

### Characteristics

**Series:** 54

**With sealing:** No

### Application

- Recommended in: Chemical

| Manufacturer ID | Inner diameter<br>mm | Outer diameter<br>mm | Width<br>mm | Contact angle<br>° | Cage  | Article  |
|-----------------|----------------------|----------------------|-------------|--------------------|-------|----------|
| 5408 A          | 40                   | 110                  | 49.21       | 25                 | Steel | 23757492 |
| 5409 A          | 45                   | 120                  | 54          | 25                 | Steel | 23757493 |
| 5410 A          | 50                   | 130                  | 58.74       | 25                 | Steel | 23223564 |
| 5411 A          | 55                   | 140                  | 63.5        | 25                 | Steel | 23757495 |
| 5412 A          | 60                   | 150                  | 66.68       | 25                 | Steel | 23757496 |
| 5413 A          | 65                   | 160                  | 71.44       | 25                 | Steel | 13529695 |
| 5414 A          | 70                   | 180                  | 79.38       | 25                 | Steel | 23757497 |
| 5415 A          | 75                   | 190                  | 82.55       | 25                 | Steel | 13529696 |
| 5416 A          | 80                   | 200                  | 87.31       | 25                 | Steel | 13529697 |

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