

# 9. DOUBLE-DIRECTION ANGULAR-CONTACT THRUST BALL BEARINGS

ROLLING BEARINGS

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**TABLES:**

<b>9.</b>	<b>ANGULAR-CONTACT DOUBLE-DIRECTION THRUST BALL BEARINGS</b>
<b>9.1.</b>	<b>Angular contact thrust ball bearings</b>

**INTRODUCTION:****9. Angular contact thrust ball bearings****9.1. Dimension series**

- 2344.. 2347..

**9.2. Dimensional accuracy**

Angular-contact double-direction thrust ball bearings are conventionally made in the SP (Super Precision) accuracy class or in the higher UP (Ultra Precision) accuracy class when made to order.

**9.3. Structure**

Angular-contact double-direction thrust ball bearings are separable and their parts are irreplaceable (fitted). Because they are angular bearings, their contact angle equals  $60^\circ$ . That is why angular-contact double-direction thrust ball bearings achieve high load carrying capacity in the axial direction and high rigidity.

**9.4. Initial stress**

Initial stress in angular-contact double-direction thrust ball bearings is ensured through implementing of an appropriate distance sleeve, placed between inner rings of the bearing.

**9.5. Cages**

Angular-contact double-direction thrust ball bearings are equipped with solid brass cages. Such solution affects considerably the ability of the bearing to support high rotational speed, whereas each row of balls has its own cage guided on balls.

**9.6. Application**

Angular-contact double-direction thrust ball bearings are most often used in machine tools' spindles, where they are mounted together with cylindrical roller bearings of NN30.. K-series, whilst they can be mounted both from the smaller and from the larger diameter of the tapered bearing mounting. Important feature with regard to the housing of the bearing is the fact, that this type of bearings has the same rated outside diameters as already mentioned cylindrical roller bearings.

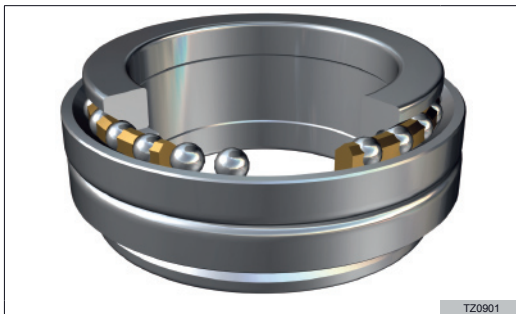


Fig.36 Angular-contact double-direction thrust ball bearing