



SKF Double row self-aligning ball bearing with extended inner ring Cylindrical bore Open

Self-aligning ball bearings have two rows of balls and a common sphered raceway in the outer ring. The bearings are insensitive to angular misalignment of the shaft relative to the housing. They generate less friction than any other type of rolling bearing, which enables them to run cooler even at high speeds. Self-aligning ball bearing variants are:

Open

- with cylindrical bore
- with tapered bore, e.g. for use with adapter sleeves
- with extended inner ring

Sealed

- with cylindrical bore
- with tapered bore, e.g. for use with adapter sleeves

Bearings with seals

Some self-aligning ball bearings are also available with seals. Sealed bearings have a contact seal on both sides that is made of oil and wear-resistant NBR and reinforced with a sheet steel insert (designation suffix 2RS1). Sealed bearings are lubricated for the life of the bearing and should not be washed or relubricated. The bearings are considered virtually maintenance-free.

Bearings with an extended inner ring

Self-aligning ball bearings with an extended inner ring are designed for less demanding applications that use commercial grade shafting. The special bore tolerance, class JS7, facilitates mounting and dismounting. Self-aligning ball bearings with an extended inner ring are located axially on the shaft by means of a slot at one end of the inner ring that engages a pin or shoulder screw fitted to the shaft. The holding device also prevents the shaft from spinning in the bearing bore. When two of these bearings are used to support a shaft, they should be positioned so that the inner ring slots either face each other, or are opposed to each other. If this is not the case, the shaft is located axially in one direction only.

Characteristics

Series: 112

Bore: Cylindrical bore

Sealing: Open

Manufacturer ID	Inner diameter mm	Outer diameter mm	Width mm	Internal clearance	Article
11204 TN9	20	47	40	CN [normal]	23755047
11505 ETN9	25	52	25	CN [normal]	23755055
11205 TN9	25	52	44	CN [normal]	23755048
11206 TN9	30	62	48	CN [normal]	23755049
11206 TN9/W64	30	62	48	CN [normal]	13195708
11207 TN9	35	72	52	CN [normal]	23755050
11208 TN9	40	80	56	CN [normal]	23755051
11209 TN9	45	85	58	CN [normal]	23755052
11210 TN9	50	90	58	CN [normal]	23755053
11212 TN9	60	110	62	CN [normal]	23755054

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