



NSK Single row deep groove ball bearing Steel Closure on one side

Single-row deep groove ball bearings are extremely versatile. They are simple in design, suitable for high to very high speeds, very robust and thus low-maintenance. Thanks to the deep grooves and the close contact between the grooves and the balls, deep groove ball bearings are extremely well suited to tolerate both radial loads and axial loads in both directions, even at high speeds. Both open (unsealed) and sealed versions of the single-row deep groove ball bearings are available.

Bearing with cover plates Z:

The cover plates, manufactured from sheet steel, are primarily suited to applications where the i-race of the bearing rotates. There is a sealing gap between the outer edge of the plate and the i-race. The clearance between the cover plate and the i-race is designed in such a way that no contact can be made, even if the bearing exhibits a large amount of radial play. To prevent corrosion, the cover plates are galvanized.

Bearing with low-friction seals V:

These non-contact seals are made from oil-resistant and wear-resistant nitrile butadiene rubber (NBR) with sheet steel reinforcement. There is a very narrow clearance between the seal and the i-race, which prevents contact between the two components. This allows bearings with low-friction seals to be used at high speeds in the same manner as bearings with Z-seals, although the former offer better sealing performance. The V-seal is patented in Germany, the USA, the UK, France and Japan. The V-seal is black in colour.

Bearing with contact seals DU:

The DU contact seal is made from synthetic rubber and is reinforced internally with sheet steel. The seal has a sealing lip which makes contact with the inner side of the U-shaped groove. Two additional sealing lips and the i-race groove form a two-fold gap seal and an additional grease chamber. The contact seal is particularly well-protected by the grease chamber and the gap seals. This design means that the pre-tension of the sealing lip can be kept low. The result is favourable friction behaviour in comparison to other seal variants. In the event of temperature fluctuations, a vacuum can form in the bearing which has a negative effect on the sealing lip pre-tension. In order to avoid this negative effect, the DU seals are equipped with a vent. The DU seal is patented in the USA and in Japan. The DU seal is brown in colour.

Characteristics

Series: 62

Type: 6011

Execution: Single row

Material: Steel

Sealing: Closure on one side

Manufacturer ID	Inner diameter mm	Outer diameter mm	Width mm	Internal clearance	Cage	Article
6301DU	12	37	12	CN (normal)	Steel	6301RS-NSK
6204Z	20	47	14	CN (normal)	Steel	6204Z-NSK
6205Z	25	52	15	CN (normal)	Steel	6205Z-NSK

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