



ZVL-ZKL double row angular contact ball bearings correspond, in principle, to two single row angular contact ball bearings in the back-to-back arrangement. However, there is a narrower profile for the same bearing size.

The connecting line of the raceway-to-ball contact points intersects the bearing axis outside the bearing at a contact angle of $\alpha=32^\circ$. Therefore, double row angular contact ball bearings can accommodate tilting moments in the axial plane. If axial forces act predominately in one direction, the bearing must be mounted so that these forces do not push against its filling slot.

These are non-separable bearings and are suitable where rigid axial guiding is required.

Double Row Angular Contact Ball Bearings

Suffix	Description	Example of Designation
N	Snap ring groove in the outer ring	3205N
NS	Snap ring groove in the center of the outer ring	3203NS
P6	Higher tolerance class than normal	3210 P6
P5	Higher tolerance class than P6	3305 P5
P4	Higher tolerance class than P5	3203 P4
C2	Radial clearance less than normal	3200 C2
C3	Radial clearance greater than normal	3208 C3
C4	Radial clearance greater than C3	3313 C4

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