



3308 DMADouble row angular contact ball bearing with two-piece inner ring

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Double row angular contact ball bearings, with two-piece inner ring, correspond to a pair of single row angular contact ball bearings in a back-to-back arrangement, while requiring less axial space than the equivalent pair of single row angular contact ball bearings. The two-piece inner ring enables incorporation of a larger number of balls, with a larger contact angle, providing a high load carrying capacity, especially in the axial direction.

- Accommodate very high axial loads in both directions, radial loads, and tilting moments
- Suitable where a stiff bearing arrangement is required
- Separable design means outer ring with ball and cage assemblies can be mounted independently of the inner ring halves

Overview

Dimensions

Bore diameter	40 mm
Outside diameter	90 mm
Width	36.5 mm
Contact angle	45 °

Performance

Basic dynamic load rating	68.9 kN
Basic static load rating	57 kN
Reference speed	8 000 r/min
Limiting speed	7 000 r/min

Properties

Contact type	Normal contact (two-point contact)
Number of rows	2
Locating feature, bearing outer ring	None
Ring type	Two-piece inner ring and one-piece outer ring
Cage	Machined metal
Arrangement of contact angle (double-row bearing)	Back-to-back (O)

Matched arrangement	No
Universal matching bearing	No
Axial internal clearance	CN
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

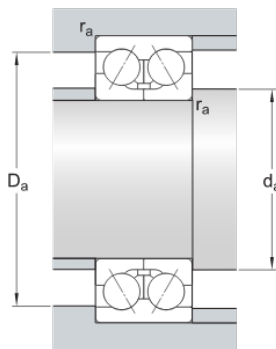


Dimensions

d	40 mm	Bore diameter
D	90 mm	Outside diameter
B	36.5 mm	Width
d_1	≈ 59.4 mm	Shoulder diameter inner ring for two-piece inner ring
D_1	≈ 77.8 mm	Shoulder diameter outer ring
$r_{1,2}$	min. 1.5 mm	Chamfer dimension inner ring for two-piece inner ring
a	84 mm	Distance pressure point(s)

Abutment dimensions

d_a	min. 49 mm	Abutment diameter shaft
D_a	max. 81 mm	Abutment diameter housing
r_a	max. 1.5 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	68.9 kN
Basic static load rating	C_0	57 kN
Fatigue load limit	P_u	2.45 kN
Reference speed		8 000 r/min
Limiting speed		7 000 r/min
Calculation factor	k_r	0.095

Limiting value	e	1.34
Calculation factor	X	0.54
Calculation factor	Y_0	0.44
Calculation factor	Y_1	0.47
Calculation factor	Y_2	0.81

Mass

Mass bearing	1.05 kg
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