

4214 ATN9 Double row deep groove ball bearing



Double row deep groove ball bearing

Double row deep groove ball bearings correspond, in their design and operation, to a pair of single row deep groove ball bearings. They are robust in operation, requiring little maintenance, can operate at high speeds and accommodate radial and axial loads in both directions. They are slightly wider than single row bearings of the same bore and outside diameter but have a considerably higher load carrying capacity.

- Versatile and robust design
- High-speed capability
- Accommodate high axial and radial loads in both directions
- Require little maintenance

Overview

Dimensions

Bore diameter	70 mm
Outside diameter	125 mm
Width	31 mm

Performance

Basic dynamic load rating	70.2 kN
Basic static load rating	73.5 kN
Reference speed	8 000 r/min
Limiting speed	4 300 r/min

Properties

Filling slots	Without
Number of rows	2
Locating feature, bearing outer ring	None
Bore type	Cylindrical
Cage	Non-metallic
Matched arrangement	No
Radial internal clearance	CN
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Sealing	Without
Lubricant	None
Relubrication feature	Without

Technical Specification

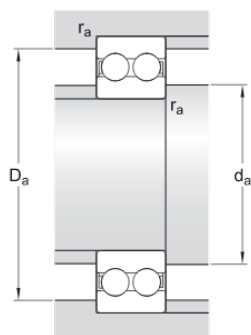


Dimensions

d	70 mm	Bore diameter
D	125 mm	Outside diameter
B	31 mm	Width
d_1	≈ 89.4 mm	Shoulder diameter
D_1	≈ 105.6 mm	Shoulder diameter
$r_{1,2}$	min. 1.5 mm	Chamfer dimension

Abutment dimensions

d_a	min. 79 mm	Diameter of shaft abutment
D_a	max. 116 mm	Diameter of housing abutment
r_a	max. 1.5 mm	Radius of shaft or housing fillet



Calculation data

Basic dynamic load rating	C	70.2 kN
Basic static load rating	C_0	73.5 kN
Fatigue load limit	P_u	3.1 kN
Reference speed		8 000 r/min
Limiting speed		4 300 r/min
Minimum load factor	k_r	0.05
Calculation factor	f_0	15.4

Mass

Mass bearing	1.5 kg
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Tolerance class

Dimensional tolerances	Normal
Radial run-out	Normal

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