

3210 ATN9

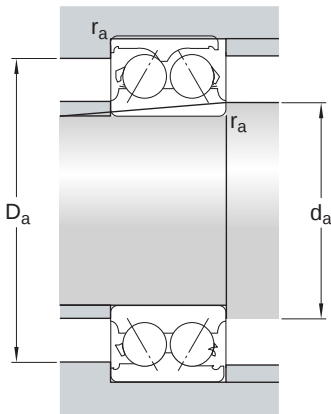
Double row angular contact ball bearings correspond, in their design and operation, to a pair of single row angular contact ball bearings in a back-to-back arrangement, while requiring less axial space. They can operate at high speeds and are more suitable than deep groove ball bearings for supporting large axial forces in both directions.



- High-speed capability
- Accommodate relatively high radial loads, high axial loads in both directions and tilting moments
- Suitable where a stiff bearing arrangement is required
- Require less axial space than equivalent pair of single row angular contact ball bearings



Dimensions		
d	50 mm	Bore diameter
D	90 mm	Outside diameter
B	30.2 mm	Width
d ₂	≈ 57.8 mm	Recess diameter inner ring shoulder
D ₂	≈ 82.1 mm	Recess diameter outer ring shoulder
r _{1,2}	min. 1.1 mm	Chamfer dimension inner ring
a	52 mm	Distance pressure point(s)



Abutment dimensions		
d _a	min. 57 mm	Abutment diameter shaft
D _a	max. 83 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius

Calculation data

performance class		Explorer
Basic dynamic load rating	C	51 kN
Basic static load rating	C ₀	42.5 kN
Fatigue load limit	P _u	1.8 kN
Reference speed		8 000 r/min
Limiting speed		7 000 r/min
Calculation factor	k _r	0.06
Limiting value	e	0.8
Calculation factor	X	0.63
Calculation factor	Y ₀	0.66
Calculation factor	Y ₁	0.78
Calculation factor	Y ₂	1.24

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6, P5
- Internal clearance: table, drawing no

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit