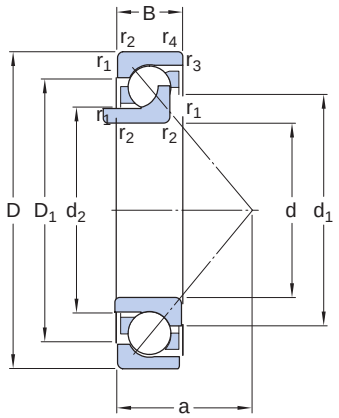
7072 AM

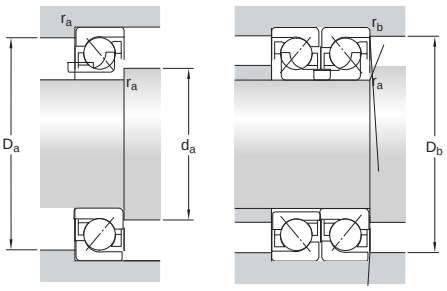
These single row angular contact ball bearings can accommodate radial and axial loads acting simultaneously, where the axial load acts in one direction only. They can operate at high speeds and, depending on the variant, even very high speeds. They are more suitable than deep groove ball bearings for supporting large axial forces acting in one direction.

- High-speed capability
- Accommodate relatively high radial loads and large unilateral axial loads



Dimensions

d	360 mm	Bore diameter
D	540 mm	Outside diameter
B	82 mm	Width
d_1	≈ 430.73 mm	Shoulder diameter of inner ring (large side face)
d_2	≈ 398.15 mm	Shoulder diameter of inner ring (small side face)
D_1	≈ 472.8 mm	Shoulder diameter of outer ring (large side face)
a	171 mm	Distance side face to pressure point
$r_{1,2}$	min. 5 mm	Chamfer dimension
$r_{3,4}$	min. 2 mm	Chamfer dimension



Abutment dimensions

d_a	min. 378 mm	Diameter of shaft abutment
D_a	max. 522 mm	Abutment diameter housing
D_b	max. 531 mm	Diameter of housing abutment
r_a	max. 4 mm	Radius of fillet
r_b	max. 2 mm	Radius of fillet

Calculation data

Basic dynamic load rating	C	520 kN
Basic static load rating	C_0	950 kN
Fatigue load limit	P_u	19 kN
Reference speed		1 300 r/min
Limiting speed		1 300 r/min
Minimum axial load factor	A	6.75
Minimum radial load factor	k_r	0.085
Limiting value	e	0.8

Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal ( ), P6, P5, Normal (inch)
- Internal clearance: CA+CB+CC, G
- Preload: GA+GB+GC

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit