

21307 CC

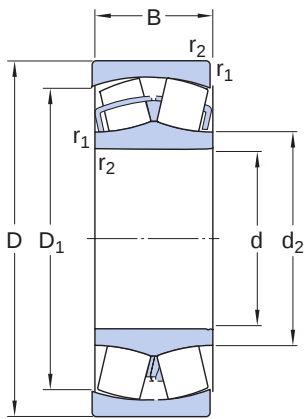


Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. They can be used in a modular system, including housings, sleeves and nuts.

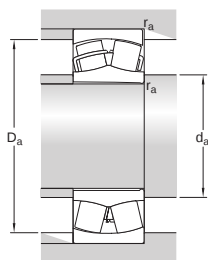
- Accommodate misalignment
- High load carrying capacity
- Low friction and long service life
- Increased wear resistance

Bore type

Cylindrical



Dimensions		
d	35 mm	Bore diameter
t _{Δdmp}	-0.012 – 0.0 mm	Deviation limits of mid-range bore diameter
D	80 mm	Outside diameter
t _{ΔDmp}	-0.013 – 0.0 mm	Deviation limits of mid-range outside diameter
B	21 mm	Width
t _{ΔBs}	-0.06 – 0.0 mm	Deviation limits of ring width
d ₂	≈ 47.2 mm	Shoulder diameter of inner ring
D ₁	≈ 65.6 mm	Shoulder/recess diameter of outer ring
r _{1,2}	min. 1.5 mm	Chamfer dimension
Normal		ISO tolerance class for dimensions



Abutment dimensions		
d _a	min. 44 mm	Diameter of shaft abutment
D _a	max. 71 mm	Diameter of housing abutment
r _a	max. 1.5 mm	Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	79.2 kN
Basic static load rating	C ₀	72 kN
Fatigue load limit	P _u	8 kN
Reference speed		8 500 r/min
Limiting speed		12 000 r/min
Limiting value	e	0.28
Calculation factor	Y ₁	2.4
Calculation factor	Y ₂	3.6
Calculation factor	Y ₀	2.5

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t _{Kia}	5 µm
Maximum run-out of inner ring side face to the bore	t _{Sd}	8 µm
Range of section height at outer ring of assembled bearing	t _{Kea}	8 µm
Perpendicularity of outer ring outside surface	t _{SD}	4 µm
ISO tolerance class for geoal tolerances		P5

Radial internal clearance

Minimum initial clearance	30 µm
Maximum initial clearance	45 µm

Tolerances of run-out

GENERAL BEARING SPECIFICATIONS

- Tolerances: Normal, P6, P5,
tapered bore 1:12, tapered bore 1:30
- Radial internal clearance: cylindrical bore, tapered bore

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit

AGA BEARINGS