

22206 EK

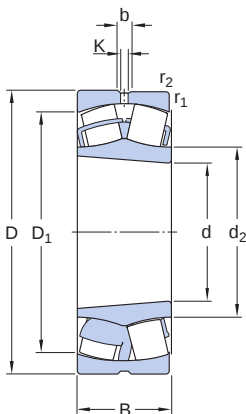


Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. The design includes features to facilitate relubrication. The bearings can be used in a modular system,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

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

Bore type

Tapered 1:12



Dimensions		
d	30 mm	Bore diameter
t _{Δdmp}	0.0 – 0.021 mm	Deviation limits of mid-range bore diameter
t _{ΔSL}	0.0 – 0.021 mm	Deviation limits of tapered slope
D	62 mm	Outside diameter
t _{ΔDmp}	-0.013 – 0.0 mm	Deviation limits of mid-range outside diameter
B	20 mm	Width
t _{ΔBs}	-0.06 – 0.0 mm	Deviation limits of ring width
d ₂	≈ 37.6 mm	Shoulder diameter of inner ring
D ₁	≈ 53 mm	Shoulder/recess diameter of outer ring
b	3.7 mm	Width of lubrication groove
K	2 mm	Diameter of lubrication hole
r _{1,2}	min. 1 mm	Chamfer dimension
Normal		ISO tolerance class for dimensions



Abutment dimensions

D_a	max. 56.4 mm	Diameter of housing abutment
r_a	max. 1 mm	Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	66.1 kN
Basic static load rating	C_0	58.5 kN
Fatigue load limit	P_u	6.4 kN
Reference speed		10 000 r/min
Limiting speed		14 000 r/min
Limiting value	e	0.31
Calculation factor	Y_1	2.2
Calculation factor	Y_2	3.3
Calculation factor	Y_0	2.2

Tolerances of run-out

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

Radial internal clearance

Minimum initial clearance	30 µm
Maximum initial clearance	40 µm

Mounting information

Recommended tightening angle for lock nut	α	100 °
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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