

21308 EKW

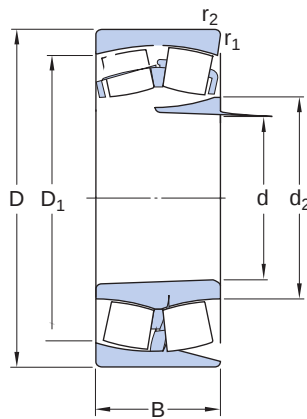


Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. They can be used in a modular system, including housings, sleeves and nuts.

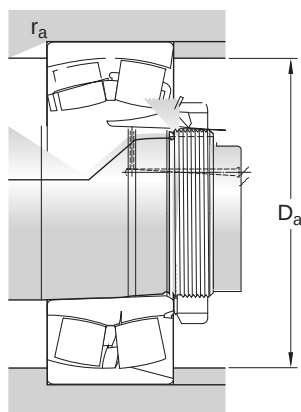
- Accommodate misalignment
- High load carrying capacity
- Low friction and long service life
- Increased wear resistance

Bore type

Tapered 1:12



Dimensions		
d	40 mm	Bore diameter
t _{Δdmp}	0.0 – 0.025 mm	Deviation limits of mid-range bore diameter
t _{ΔSL}	0.0 – 0.025 mm	Deviation limits of tapered slope
D	90 mm	Outside diameter
t _{ΔDmp}	-0.015 – 0.0 mm	Deviation limits of mid-range outside diameter
B	23 mm	Width
t _{ΔBs}	-0.06 – 0.0 mm	Deviation limits of ring width
d ₂	≈ 60 mm	Shoulder diameter of inner ring
D ₁	≈ 79.8 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	max. 81 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	107 kN
Basic static load rating	C_0	108 kN
Fatigue load limit	P_u	12 kN
Reference speed		7 000 r/min
Limiting speed		9 500 r/min
Limiting value	e	0.24
Calculation factor	Y_1	2.8
Calculation factor	Y_2	4.2
Calculation factor	Y_0	2.8

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t_{Kia}	5 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}	10 μ m
Perpendicularity of outer ring outside surface	t_{SD}	4.5 μ m
ISO tolerance class for geol tolerances		P5

Radial internal clearance

Minimum initial clearance	35 µm
Maximum initial clearance	50 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