

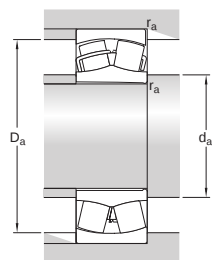
21305 CC



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	25 mm Bore diameter
	t _{Δdmp}	-0.01 – 0.0 mm Deviation limits of mid-range bore diameter
	D	62 mm Outside diameter
	t _{ΔDmp}	-0.013 – 0.0 mm Deviation limits of mid-range outside diameter
	B	17 mm Width
	t _{ΔBs}	-0.06 – 0.0 mm Deviation limits of ring width
	d ₂	≈ 35.7 mm Shoulder diameter of inner ring
	D ₁	≈ 50.7 mm Shoulder/recess diameter of outer ring
	r _{1,2}	min. 1.1 mm Chamfer dimension
	Normal	ISO tolerance class for dimensions



Abutment dimensions		
d _a	min. 32 mm	Diameter of shaft abutment
D _a	max. 55 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	49.1 kN
Basic static load rating	C ₀	41.5 kN
Fatigue load limit	P _u	4.55 kN
Reference speed		11 000 r/min
Limiting speed		15 000 r/min
Limiting value	e	0.3
Calculation factor	Y ₁	2.3
Calculation factor	Y ₂	3.4
Calculation factor	Y ₀	2.2

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t _{Kia}	4 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	25 µm
Maximum initial clearance	40 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