

23980 CC/W33

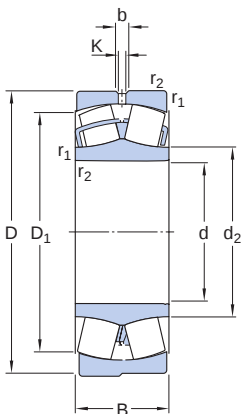
Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. The design includes features to facilitate relubrication. The bearings can be used in a modular system,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



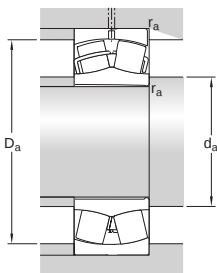
- Accommodate misalignment
- High load carrying capacity
- Relubrication features
- Low friction and long service life
- Increased wear resistance

Bore type

Cylindrical



Dimensions		
d	400 mm	Bore diameter
D	540 mm	Outside diameter
B	106 mm	Width
d ₂	≈ 439 mm	Shoulder diameter of inner ring
D ₁	≈ 500 mm	Shoulder/recess diameter of outer ring
b	13.9 mm	Width of lubrication groove
K	7.5 mm	Diameter of lubrication hole
r _{1,2}	min. 4 mm	Chamfer dimension
Normal		ISO tolerance class for dimensions



Abutment dimensions		
d _a	min. 415 mm	Diameter of shaft abutment
D _a	max. 525 mm	Diameter of housing abutment
r _a	max. 3 mm	Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	2 038 kN
Basic static load rating	C ₀	3 900 kN
Fatigue load limit	P _u	290 kN
Reference speed		1 100 r/min
Limiting speed		1 200 r/min
Limiting value	e	0.16
Calculation factor	Y ₁	4.2
Calculation factor	Y ₂	6.3
Calculation factor	Y ₀	4

Tolerances of run-out

ISO tolerance class for geoal tolerances	Normal
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Radial internal clearance

Minimum initial clearance	220 µm
Maximum initial clearance	340 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