

24060 CACK30/W33

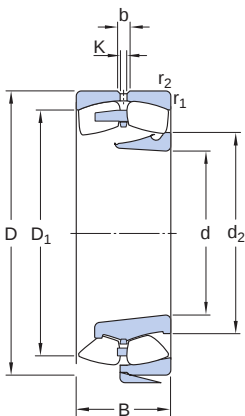
Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. The design includes features to facilitate relubrication. The bearings can be used in a modular system,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



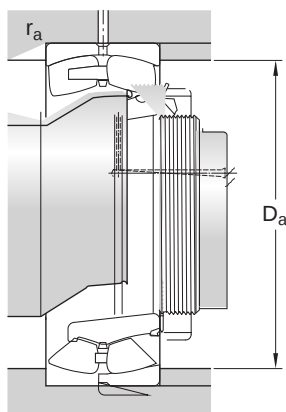
- Accommodate misalignment
- High load carrying capacity
- Relubrication features
- Low friction and long service life
- Increased wear resistance

Bore type

Tapered 1:30



Dimensions		
d	300 mm	Bore diameter
t _{Δdmp}	0.0 – 0.035 mm	Deviation limits of mid-range bore diameter
t _{ΔSL}	0.0 – 0.052 mm	Deviation limits of tapered slope
D	460 mm	Outside diameter
t _{ΔDmp}	-0.045 – 0.0 mm	Deviation limits of mid-range outside diameter
B	160 mm	Width
t _{ΔBs}	-0.1 – 0.0 mm	Deviation limits of ring width
d ₂	≈ 344 mm	Shoulder diameter of inner ring
D ₁	≈ 400 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	max. 445 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	2 735 kN
Basic static load rating	C_0	4 500 kN
Fatigue load limit	P_u	340 kN
Reference speed		850 r/min
Limiting speed		1 200 r/min
Limiting value	e	0.33
Calculation factor	Y_1	2
Calculation factor	Y_2	3
Calculation factor	Y_0	2

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t_{Kia}	13 μm
Maximum run-out of inner ring side face to the bore	t_{Sd}	13 μm
Range of section height at outer ring of assembled bearing	t_{Kea}	23 μm
Perpendicularity of outer ring outside surface	t_{SD}	7.5 μm
ISO tolerance class for geol tolerances		P5

Radial internal clearance

Minimum initial clearance	240 µm
Maximum initial clearance	330 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