

24092 ECAK30/W33

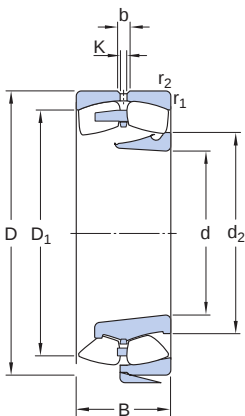
Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. The design includes features to facilitate relubrication. The bearings can be used in a modular system,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



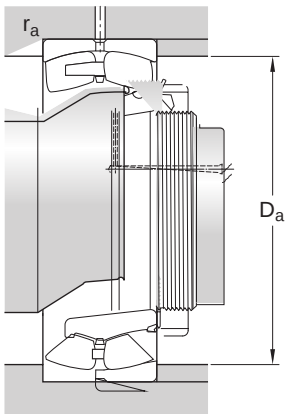
- Accommodate misalignment
- High load carrying capacity
- Relubrication features
- Low friction and long service life
- Increased wear resistance

Bore type

Tapered 1:30



Dimensions		
d	460 mm	Bore diameter
t _{Δdmp}	0.0 – 0.045 mm	Deviation limits of mid-range bore diameter
t _{ΔSL}	0.0 – 0.063 mm	Deviation limits of tapered slope
D	680 mm	Outside diameter
t _{ΔDmp}	-0.075 – 0.0 mm	Deviation limits of mid-range outside diameter
B	218 mm	Width
t _{ΔBs}	-0.45 – 0.0 mm	Deviation limits of ring width
d ₂	≈ 524 mm	Shoulder diameter of inner ring
D ₁	≈ 601 mm	Shoulder/recess diameter of outer ring
b	22.3 mm	Width of lubrication groove
K	12 mm	Diameter of lubrication hole
r _{1,2}	min. 6 mm	Chamfer dimension
Normal		ISO tolerance class for dimensions



Abutment dimensions

D_a	max. 657 mm	Diameter of housing abutment
r_a	max. 5 mm	Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	5 401 kN
Basic static load rating	C_0	10 000 kN
Fatigue load limit	P_u	670 kN
Reference speed		480 r/min
Limiting speed		800 r/min
Limiting value	e	0.28
Calculation factor	Y_1	2.4
Calculation factor	Y_2	3.6
Calculation factor	Y_0	2.5

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t_{Kia}	65 μm
Range of section height at outer ring of assembled bearing	t_{Kea}	120 μm
ISO tolerance class for geol tolerances		Normal

Radial internal clearance

Minimum initial clearance	370 μm
Maximum initial clearance	490 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