

24056-2CS5K30/VT143

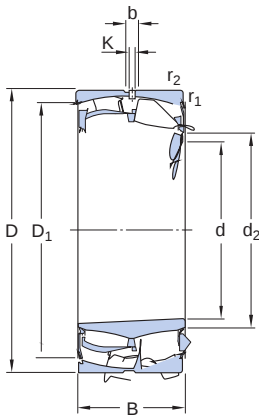
Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. They can be used in a modular system, including housings, sleeves and nuts.



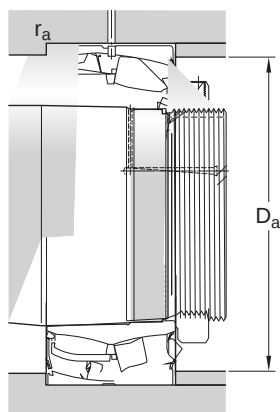
- Accommodate misalignment
- High load carrying capacity
- Low friction and long service life
- Extensive range available sealed for increased reliability
- Increased wear resistance

Bore type

Tapered 1:30



Dimensions		
d	280 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	420 mm	Outside diameter
t _{ΔDmp}	-0.045 – 0.0 mm	Deviation limits of mid-range outside diameter
B	140 mm	Width
t _{ΔBs}	-0.1 – 0.0 mm	Deviation limits of ring width
d ₂	≈ 302 mm	Shoulder diameter of inner ring
D ₁	≈ 389 mm	Shoulder/recess diameter of outer ring
b	11.1 mm	Width of lubrication groove
K	6 mm	Diameter of lubrication hole
r _{1,2}	min. 4 mm	Chamfer dimension
Normal		ISO tolerance class for dimensions



Abutment dimensions

D_a max. 405 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	2 251 kN
Basic static load rating	C_0	3 800 kN
Fatigue load limit	P_u	285 kN
Limiting speed		310 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}	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 geoal tolerances		P5

Radial internal clearance

Minimum initial clearance	220 µm
Maximum initial clearance	300 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