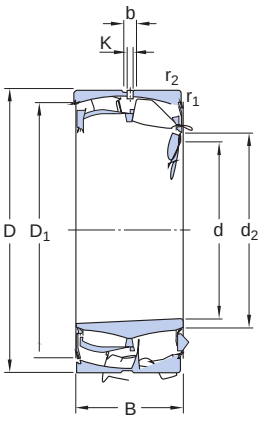
24184-2CS5K30/C3HGEA8

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.

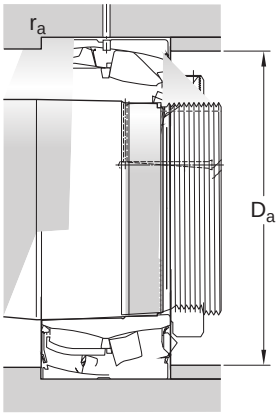
- Accommodate misalignment
- High load carrying capacity
- Low friction and long service life
- Extensive range available sealed for increased reliability
- Increased wear resistance

Bore type	Tapered 1:30



Dimensions

d	420 mm	Bore diameter
$t_{\Delta dmp}$	0.0 – 0.045 mm	Deviation limits of mid-range bore diameter
$t_{\Delta SL}$	0.0 – 0.063 mm	Deviation limits of tapered slope
D	700 mm	Outside diameter
$t_{\Delta Dmp}$	-0.075 – 0.0 mm	Deviation limits of mid-range outside diameter
B	280 mm	Width
$t_{\Delta Bs}$	-0.45 – 0.0 mm	Deviation limits of ring width
d_2	≈ 477 mm	Shoulder diameter of inner ring
D_1	≈ 624 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. 674 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	7 591 kN
Basic static load rating	C_0	12 500 kN
Fatigue load limit	P_u	850 kN
Limiting speed		55 r/min
Limiting value	e	0.37
Calculation factor	Y_1	1.8
Calculation factor	Y_2	2.7
Calculation factor	Y_0	1.8

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 geoal tolerances		Normal

Radial internal clearance

Minimum initial clearance	505 µm

Maximum initial clearance	570 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