

241/1180-2CS6K30/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	1 180 mm	Bore diameter
$t_{\Delta dmp}$	0.0 – 0.125 mm	Deviation limits of mid-range bore diameter
$t_{\Delta SL}$	0.0 – 0.115 mm	Deviation limits of tapered slope
D	1 850 mm	Outside diameter
$t_{\Delta Dmp}$	-0.2 – 0.0 mm	Deviation limits of mid-range outside diameter
B	670 mm	Width
$t_{\Delta Bs}$	-1.25 – 0.0 mm	Deviation limits of ring width
d_2	$\approx$ 1 307 mm	Shoulder diameter of inner ring
D_1	$\approx$ 1 706 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. 15 mm	Chamfer dimension
Normal		ISO tolerance class for dimensions

Abutment dimensions

D_a	max. 1 792 mm	Diameter of housing abutment
r_a	max. 12 mm	Radius of fillet

Calculation data

AGA performance class		AGA Explorer
Basic dynamic load rating	C	38 266 kN
Basic static load rating	C_0	78 000 kN
Fatigue load limit	P_u	3 900 kN
Limiting speed		20 r/min
Limiting value	e	0.31
Calculation factor	Y_1	2.2
Calculation factor	Y_2	3.3
Calculation factor	Y_0	2.2

Tolerances of run-out

Range of section height at inner ring of assembled bearing	t_{Kia}	100 μm
Range of section height at outer ring of assembled bearing	t_{Kea}	220 μm
ISO tolerance class for geol tolerances		Normal

Radial internal clearance

Minimum initial clearance	1 270 μm
Maximum initial clearance	1 420 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