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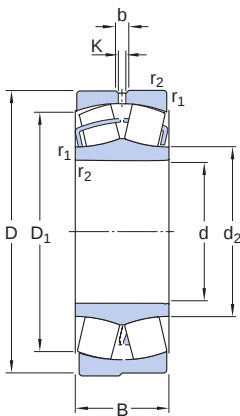


Spherical roller bearings can accommodate heavy loads in both directions. They are self-aligning and accommodate misalignment and shaft deflections, with virtually no increase in friction or temperature. This variant is optimized for use in continuous casters in the metals industry. The design includes features to facilitate relubrication. The bearings are developed for very slow rotation speed.

- Accommodate misalignment
- High load carrying capacity
- Low friction and long service life
- Increased wear resistance
- Suitable only for very low speed

Bore type

Cylindrical



Dimensions		
d	100 mm	Bore diameter
t _{Δdmp}	-0.02 – 0.0 mm	Deviation limits of mid-range bore diameter
D	180 mm	Outside diameter
t _{ΔDmp}	-0.025 – 0.0 mm	Deviation limits of mid-range outside diameter
B	60.3 mm	Width
t _{ΔBs}	-0.08 – 0.0 mm	Deviation limits of ring width
d ₂	≈ 117 mm	Shoulder diameter of inner ring
D ₁	≈ 153 mm	Shoulder/recess diameter of outer ring
b	8.3 mm	Width of lubrication groove
K	4.5 mm	Diameter of lubrication hole
r _{1,2}	min. 2.1 mm	Chamfer dimension
Normal		ISO tolerance class for dimensions



Abutment dimensions

d_a	min. 112 mm	Diameter of shaft abutment
D_a	max. 168 mm	Diameter of housing abutment
r_a	max. 2 mm	Radius of fillet

Calculation data

Basic static load rating	C_0	600 kN
Limiting speed		20 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}	25 μ m
Range of section height at outer ring of assembled bearing	t_{Kea}	45 μ m
ISO tolerance class for geoal tolerances		Normal

Radial internal clearance

Minimum initial clearance	135 μ m
Maximum initial clearance	180 μ m

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