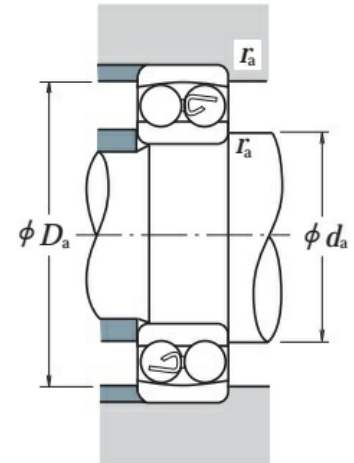
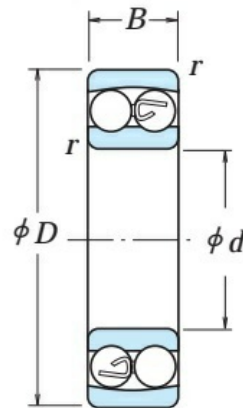


2305

self-aligning ball bearings cylindrical bore



Technical sheet of 2305

What are the Benefits of choosing 2305 bearings?

- **Self-aligning:** Allows shaft tilt angles of 1.5° to 3°, compensating for misalignment or shaft bending.
- **Low friction, high speed:** Point contact, low heat generation, suitable for higher speeds.
- **Primarily radial load-bearing:** Can also withstand small bidirectional axial loads.
- **Economical and practical:** Simple structure, low installation precision requirements, low noise.

Type :	Self-aligning Ball Bearings	
Model :	2305	
Old Code :	1605	
Main demensions :	25 mm × 62 mm × 24 mm	Bore Dia × Outside Dia × Width Dia
M kg:	0.319	Mass
HS Code :	8482101000	Bearing customs code
d mm:	25	inner ring diameter
D mm:	62	Outer ring diameter
B(T) mm:	24	Overall Width
Cr kN:	27.02	Radial dynamic load rating
COr kN:	6.491	Radial static load rating

Grease r/min:	9422	Reference speed
Oil r/min:	11896	Limiting speed

Detailed parameters and installation dimensions:

Part Number	2305
Accuracy class	P0 = (ISO Class NORMAL / ABEC-1)
Permissible misalignment	4° to 7°
Series	2300 series (23..)
Seal	Open
Cage	Pressed steel cage
Temperature - T(min)	-30 °C
Temperature - T(max)	120 °C
Speed ratings (grease) - n_B	9422 min ⁻¹
Speed ratings (oil) - n_G	11896 min ⁻¹
RIC	C0
Units	Metric
Rows NO.	Two
Dimension Chamfer - r min	1.1 mm 0.0433 inch
Radial Dynamic Capacity - C_r	27020 N 6074 lbf
Radial Static Capacity - C_{0r}	6491 N 1459 lbf
Manufacturer Part Code	2305
Bearing type	self-aligning ball bearings cylindrical bore
Bore type	Cylindrical
Abutment Dimensions Shaft - d_a min	31.5 mm 1.2402 inch
Abutment Dimensions Housing - D_a max	55.5 mm 2.1850 inch
Fillet Radius - r_a max	1 mm 0.0394 inch
Bearing Mass - m	0.319 kg 0.7033 lb
Load	radial
Ring Material	GCr15SiMn
Ball Material	GCr15SiMn
Dimension Inside - d ϕ	25 mm 0.9843 inch
Dimension Outside - D Φ	62 mm 2.4409 inch
Dimension Width - B	24 mm 0.9449 inch
Interchangeable	NSK 2305
Constant - e	0.46
Axial Load Factors - Y_2	2.1
Axial Load Factors - Y_3	1.4
Axial Load Factors - Y_0	1.4

What are the applications of the 2305 bearing?

- **General-purpose equipment:** Used in motors, fans, and conveyor rollers. Automatically compensates for misalignment and reduces vibration.

- **Light industrial machinery:** Used in textile and woodworking equipment. Adapted to high-speed rotation and low-friction operation.
- **Agricultural machinery:** Used in transmission systems. Low precision requirements for installation; economical and practical.

Tradebearing(TBS): <https://en.tradebearings.com/>

Email: admin@tradebearings.com
Whatsapp/Mob.: +86 15906428604