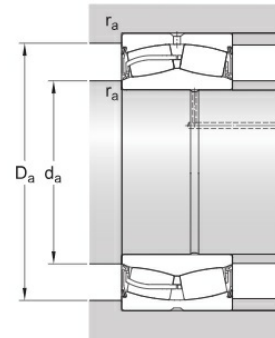
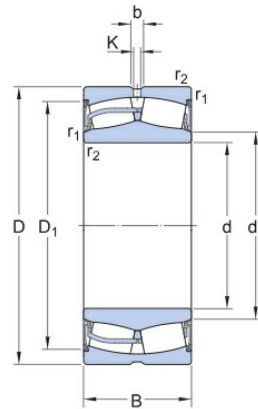


24030-2CS5W/C4GEM9

Sealed spherical roller bearings



Technical sheet of 24030-2CS5W/C4GEM9

What are the Benefits of choosing 24030-2CS5W/C4GEM9 bearings?

- **Self-aligning:** Automatically compensates for shaft bending or installation errors, making it less prone to damage.
- **High load-bearing capacity:** Capable of withstanding extremely heavy radial loads and a certain amount of axial impact.
- **Adaptable to harsh working conditions:** Durable and rigid, suitable for heavy-duty, vibration, and dusty environments.

Type :	Spherical Roller Bearings	
Model :	24030-2CS5W/C4GEM9	
Main demensions :	150 mm × 225 mm × 75 mm	Bore Dia × Outside Dia × Width Dia
M kg:	10.5	Mass
HS Code :	8482300000	Bearing customs code
d mm:	150	inner ring diameter
D mm:	225	Outer ring diameter
B(T) mm:	75	Overall Width
Cr kN:	680.902	Radial dynamic load rating
CO _r kN:	1039.782	Radial static load rating

Oil r/min:	552	Limiting speed
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Detailed parameters and installation dimensions:

Part Number	24030-2CS5W/C4GEM9
Series	240series (240..-2CS5W/C4GEM9)
Cage	Stamped steel cage
Speed ratings (oil) - n_G	552 rpm
Seal	2CS5 = Contact seal, HNBR, on both sides
Reference From	SKF 24030-2CS5W/C4GEM9
Principal Dimensions Inside - $d \varphi$ (mm)	150
Inside - $d \varphi$ tolerance	-0.025 mm to 0
Principal Dimensions Outside - $D \Phi$ (mm)	225
Outside - $D \Phi$ tolerance	-0.030 mm to 0
Principal Dimensions Width - B (mm)	75
Width - B tolerance	-0.08 mm to 0
Lubrication	GEM9 = Filled to 70 - 100% with SKF LGHB 2 grease
Rows NO.	2
Bore Type	Z = cylindrical bore
Principal Dimensions Inside - $d \varphi$ (inch)	5.905
Principal Dimensions Outside - $D \Phi$ (inch)	8.858
Principal Dimensions Width - B (inch)	2.953
RIC	C4
Load Direction	Combined
Bearing Mass - m	10.5 kg 23.148 lb
Permissible angular misalignment	2 degrees
Dynamic Radial Capacity - C_r	152832 lbf 679796 N
Static Radial Capacity - C_{0r}	233672 lbf 1039373 N
Heat stabilization	392 °F (200 °C)
Temperature - T(min)	-30 °C
Temperature - T(max)	+200 °C
Dimension - d_2	162 mm 6.378 inch
Units	Metric
Roller bearing type	Spherical
Dimension - D_1	206 mm 8.110 inch
Bearing Type	Sealed spherical roller bearings
Manufacturer Part Code	24030-2CS5W/C4GEM9
Ring material	GCr15SiMn
Dimension - b	6 mm 0.236 inch
Roller material	GCr15SiMn
Dimension - K	3 mm 0.118 inch
Dimension - r_1, r_2 (min.)	2.1 mm 0.083 inch

What are the applications of the 24030-2CS5W/C4GEM9 bearing?

- **Metallurgy and Mining:** Rolling mills, crushers, vibrating screens, roller conveyors (withstanding high impact loads and compensating for shaft deflection under immense pressure).
- **Paper and Printing:** Press sections of paper machinery, printing presses (maintaining reliability and stability in humid, hot, and high-speed operating environments).
- **Energy and Environmental Protection:** Wind turbine main shafts, cement plant equipment, pellet mills (coping with heavy loads, vibrations, and harsh operating conditions, extending equipment lifespan, and reducing maintenance costs).
- **General Industry and Transportation:** Various speed reducers, gearboxes, railway vehicle axles (powerful radial load capacity, capable of withstanding bidirectional axial loads simultaneously).
- **Woodworking and Processing:** Woodworking machinery (suitable for cutting and processing scenarios with vibration and moderate loads).

How should choose the right model for a Spherical Roller Bearings?

1. Verify load and direction: Confirm that the bearing can withstand high radial loads and bidirectional axial loads. Generally, the axial load should not exceed 15-20% of the radial load, and in extreme cases, it should not exceed 35%, otherwise uneven stress may occur.

2. Confirm dimensions and tolerances: Determine the bore diameter, outer diameter, and width based on the installation space, and select the tolerance grade (e.g., PN grade) according to standards such as DIN 635-2 or ISO 15.

3. Select internal design: Select the cage type (e.g., CA type brass cage) and lubrication features (e.g., W33 outer ring oil groove and oil hole) according to the application.

4. Consider self-aligning capability: Check its maximum permissible self-aligning angle (usually 1° to 2°) to ensure it can compensate for installation errors or shaft deflection.

What is the mounting procedure for 24030-2CS5W/C4GEM9 bearings?

1. Preparation and Cleaning: Before installation, be sure to clean the shaft and bearing housing, and check all mating surfaces for burrs or damage.

2. Heated Installation (Recommended): For interference fits, use an induction heater to evenly heat the bearing to 80-100°C, then quickly push it onto the shaft, pressing it against the shaft shoulder. Do not exceed 120°C to avoid altering the material structure.

3. Cold Installation (Alternative): If heating is not possible, use an installation sleeve and press to apply pressure only to the inner ring to press the bearing into place.

4. Securing and Lubrication: Tighten the bearing with a lock nut, etc., and add an appropriate amount of grease through the oil groove/hole.

5. Final Inspection: Manually rotate the shaft to confirm smooth rotation without abnormal noise, and recheck the bearing clearance.

Special Note for mounting 24030-2CS5W/C4GEM9 bearings?

Load Limitation: Avoid prolonged exposure to excessive (>20%) pure axial loads, as this may overload the single-row rollers and significantly shorten their lifespan.

Temperature Control: During heated installation, strictly adhere to the 80-100°C range to prevent localized overheating.

Appropriate Lubrication: Double-row bearings require more grease, but the filler amount is generally 30%-60% of the bearing's internal space; excessive grease can easily cause overheating.

Installation Tools: Never directly strike the bearing's outer ring, cage, or rolling elements. Use specialized tools to apply force only to the mating rings.

Operational Monitoring: During the first run after installation, monitor temperature, vibration, and noise to ensure smooth operation.

Have you already decided on a specific model, or are you hesitating between several models? Tell me the model or application scenario, and I can help you analyze whether the selection is appropriate.

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