

SKF 351019 C Bearings Makers: Technical Guide for Selection, Installation, and Maintenance

Zenith Bearings • Authorized dealer: KOYO / NKE / FAG / SKF / NTN / TIMKEN / INA / NSK



Instant TL;DR (Selection Card)

What it is: Technical reference for SKF 351019 C cylindrical roller bearing, covering specifications, selection criteria, installation practices, lubrication, and troubleshooting.

Best for:

- · High-load radial applications with axial limits
- · Heavy machinery where misalignment tolerance is tight
- SKF 351019 C suitable in standard industrial bearing housings

Key selection criteria:

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- Load type (radial/combined)
- Dynamic rating and L10 life
- Inner/outer race fits (CN/C3/C4)
- Lubrication type (grease/oil)
- Operating temperature and contamination control

Watch-outs:

- Exceeding dynamic rating or misalignment limits
- · Inadequate lubrication leading to wear
- Improper preload/endplay causing vibration
- · Incorrect shaft/housing fits or mounting method

Zenith Bearings value: Provides field-ready guidelines for selecting, fitting, and maintaining SKF 351019 C bearings with emphasis on performance, reliability, and lifecycle cost



Key Specifications & Procurement Notes

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Item	Parameter	Typical Range / Note
1	Bearing type	SKF cylindrical roller bearing, single-row with 351019 C designation
2	Bore diameter	mm 190–195 (confirm exact OEM size for 351019 C variant)
3	Dynamic load rating (C)	High capability; dependent on clearance and cage design
4	Static load rating (Co)	Significant static capacity for heavy radial loads
5	Lubrication	Grease or oil lubrication depending on application; sealing varies by housing

Selection Checklist (Field-Usable)

- ✓ Identify load type (radial vs combined)
- ✓ Verify fits: shaft and housing clearances (CN/C3/C4)
- ✓ Determine operating speed and required L10 life
- ✓ Choose lubrication method and seals
- ✓ Assess mounting method and preload/endplay
- ✓ Confirm ambient temperature and contamination controls

Installation & Removal — Do / Don't

Do

- · Clean shafts and housings before assembly
- Use appropriate seals and housings compatible with SKF 351019 C
- Set correct endplay and preload per bearing spec
- Use calibrated torque and axial locking mechanisms
- Lubricate per lubricant manufacturer's recommendations

Don't

- Re-use damaged shafts or housings
- · Over-tighten fittings causing distortion
- · Use incompatible lubricants or seals
- · Operate at speeds beyond rated limits without verification

Failure Diagnosis Quick Table

Symptom Likely Causes Recommended Actions

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Excessive radial play observed	Poor preload or endplay; worn inner/outer racers	Re-check preload, shim stack, and race seating; replace worn components
Rough friction or sticking during rotation	Insufficient lubrication; contamination	Inspect lubrication path, replace lubricant, clean seals, check contamination level
Excessive heat at bearing housing	Overload or misalignment; incompatible lubricant	Recalculate load ratings, verify alignment, adjust lubrication schedule
Vibration at startup or during run	Misalignment; unbalanced assembly	Re-measure shaft runout, re-align, balance assembly, verify mounting bolts torque
Seal leakage or contamination ingress	Cracked seal or housing damage	Replace seals, inspect housing grooves, ensure proper seal seating

Lubrication & Relubrication Notes

- Select grease for moderate speed and medium temperature ranges; oil lubrication for high-speed or high-temperature applications; SKF grease types recommended for 351019 C variant
- Maintain clean oil/gas-free environment; replace lubricant at intervals based on load, speed and exposure
- Check lubrication film thickness and viscosity; avoid over-lubrication which increases heat and resistance
- Ensure seals are compatible with lubricant and operate within temperature range

Frequently Asked Questions (FAQs)

Q1. What is the typical application range for SKF 351019 C bearings?

Medium to heavy radial loads in industrial machinery; suitable for misalignment allowances within specified clearance and cage design limits

Q2. What clearance class is recommended?

CN/C3 or CN/C4 depending on shaft fit and thermal expansion expectations; verify manufacturer data for exact part variation

Q3. What lubrication options are preferred?

Grease for low-to-moderate speed with restricted grease delivery; oil for high-speed or high-temperature service; ensure seals match lubricant type

Q4. How is life expectancy assessed?

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Use L10 life calculation based on dynamic load, speed, lubricant condition, and misalignment; target maintenance intervals to achieve design L10h life under expected conditions

Q5. What installation checks are critical?

Clean mating surfaces, correct preload, proper endplay, correct fit class, secure locking mechanism, and verification of runout and alignment

Q6. What failure modes are common?

Overload, inadequate lubrication, contamination, improper mounting, seal failure, misalignment

About Zenith Bearings

Zenith Bearings: Authorized distributor of KOYO, NKE, FAG, SKF, NTN, TIMKEN, INA, NSK. Technical guidance and availability for the SKF 351019 C bearing variant and related mounting, lubrication, and maintenance solutions.

Note: Final bearing selection and life depend on actual operating conditions, fits, lubrication, and OEM guidance.

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