SKF KM 13

SKF KM 13 Locknut Instruction Manual

Model: KM 13

1. Product Overview

The SKF KM 13 locknut is a precision-engineered industrial fastener designed to secure bearings and other components onto a shaft. Manufactured from standard bearing steel, it provides reliable retention and helps prevent loosening under operational conditions. This manual provides essential information for the proper installation, operation, and maintenance of the SKF KM 13 locknut.

Figure 1: Top-down view of the SKF KM 13 locknut, showing the threaded inner diameter and the outer profile with securing points.

2. Specifications

Detailed technical specifications for the SKF KM 13 locknut are provided below:

- **Category:** Nuts, Locknuts
- **Material:** Standard Bearing Steel / Alloy Steel
- **Weight:** 0.227 kg
- **Inner Dimension:** 65.000 mm
- **Outer Dimension:** 85.000 mm
- **Width:** 12.000 mm
- **Manufacturer Part Number:** 016731891-0000
- **EAN:** 4012801052511
- **ASIN:** B00367D3K8
- **Manufacturer:** SKF

3. Installation (Setup)

Proper installation is crucial for the reliable performance of the SKF KM 13 locknut. Follow these steps carefully:

1. **Prepare the Shaft:** Ensure the shaft threads are clean, free from burrs, debris, and lubricants that could affect friction or torque readings.
2. **Position Components:** Slide the bearing or other component onto the shaft to its intended position, ensuring it is seated correctly against any shoulders or spacers.
3. **Thread the Locknut:** Carefully thread the SKF KM 13 locknut onto the shaft by hand until it makes contact with the component. Avoid cross-threading.
4. **Tighten the Locknut:** Using an appropriate spanner wrench, tighten the locknut to the recommended torque specification for your specific application. Refer to bearing manufacturer guidelines or engineering specifications for precise torque values. Over-tightening or under-tightening can lead to premature failure.
5. **Secure the Locknut:** The KM 13 locknut typically features set screws for additional security. Once the main nut is torqued, tighten the integrated set screws to lock the nut in place. Ensure the set screws are firmly seated without over-tightening, which could damage the shaft threads.

Figure 2: Side view of the SKF KM 13 locknut, highlighting the external profile and the location of a set screw for securing.

4. Operation

Once correctly installed, the SKF KM 13 locknut functions passively to maintain the axial position of the secured component. Its primary role is to prevent the component from loosening due to vibration, rotational forces, or other operational stresses. The integrated locking mechanism (set screws) ensures that the nut remains in its tightened position, providing a stable and secure assembly.

Figure 3: Angled view of the SKF KM 13 locknut, showing the robust construction and threaded interior.

5. Maintenance

Regular inspection and maintenance are essential to ensure the long-term reliability of the SKF KM 13 locknut and the secured assembly:

- **Visual Inspection:** Periodically inspect the locknut and surrounding components for any signs of loosening, wear, corrosion, or damage.
- **Check Tightness:** If accessible and safe, verify the tightness of the locknut and its set screws. Re-tighten to the specified torque if any loosening is detected.
- **Cleanliness:** Keep the area around the locknut clean to prevent accumulation of dirt or debris that could interfere with its function or inspection.
- **Replacement:** If the locknut shows significant signs of wear, thread damage, or if the locking mechanism is compromised, it should be replaced immediately to prevent potential equipment failure.

6. Troubleshooting

This section addresses common issues that may arise with the SKF KM 13 locknut:

Problem	Possible Cause	Solution
Locknut loosens during operation	Insufficient tightening torque; set screws not properly engaged; excessive vibration; incorrect locknut size.	Re-tighten to specified torque; ensure set screws are fully engaged; evaluate application for excessive vibration and consider additional locking methods; verify correct locknut for application.

Problem	Possible Cause	Solution
Difficulty threading locknut onto shaft	Damaged shaft threads; damaged locknut threads; debris in threads; cross-threading.	Inspect shaft and locknut threads for damage; clean threads thoroughly; ensure correct alignment before threading; replace damaged components.
Component not securely held	Locknut not fully tightened; incorrect component seating; damaged locknut.	Verify proper torque and set screw engagement; ensure component is correctly seated against its shoulder; replace locknut if damaged.

7. Warranty Information

Specific warranty details for the SKF KM 13 locknut are typically provided by the manufacturer, SKF, or the authorized seller at the time of purchase. Please retain your proof of purchase. For comprehensive warranty terms and conditions, it is recommended to consult the official SKF website or contact your supplier directly.

8. Support and Contact

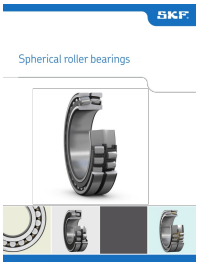
For further assistance, technical inquiries, or support regarding the SKF KM 13 locknut, please refer to the following resources:

- **Manufacturer Website:** Visit the official SKF website for product documentation, technical data, and contact information.
- **Authorized Distributors:** Contact the authorized SKF distributor from whom the product was purchased.
- **SKF Customer Service:** Refer to the SKF website for regional customer service contact details.

You can also visit the SKF Store on Amazon for more information on SKF products.

Related Documents - KM 13

	SKF Изделия для Технического Обслуживания и Смазочные Материалы Каталог SKF, посвященный изделиям и материалам для технического обслуживания подшипников. Охватывает монтаж, демонтаж, смазывание, выверку и мониторинг состояния для продления срока службы подшипников.

	SKF Rolling Bearings Catalogue and Selection Guide Comprehensive guide from SKF detailing rolling bearings, their selection process, technical specifications, and applications. Covers various bearing types, lubrication, mounting, and performance data.
	SKF Rolling Bearings Catalog: Selection Guide and Technical Data Comprehensive catalog from SKF detailing rolling bearings for industrial applications. Covers bearing selection processes, types, technical specifications, and performance data to help engineers and designers choose the optimal bearing solution.
	SKF Automatic Lubricators: LAGD, TLSD, TLMR, TLMP Series - Product Guide Comprehensive guide to SKF Automatic Lubricators, including LAGD, TLSD, TLMR, and TLMP series. Learn about features, benefits, applications, technical specifications, and accessories for improved safety, reliability, and maintenance.
	SKF Spherical Roller Bearings: Comprehensive Catalog and Technical Guide Explore the SKF range of spherical roller bearings, detailing designs (CC, CA, E), sealed variants, technical specifications, load capacities, misalignment accommodation, and product tables for demanding industrial applications.
	SKF TKBA 40 Belt Alignment Tool User Manual This user manual provides comprehensive instructions for operating the SKF TKBA 40 Belt Alignment Tool, detailing its technical specifications, application range, troubleshooting, and maintenance procedures.