

# Reduce assembly costs with SKF precision lock nuts

*When it comes to super precision applications such as spindle units, ball screws and precision shafts, reliability is crucial. But, so too is identifying ways to reduce assembly costs. With SKF precision lock nuts, you get both.*

A high-precision bearing deserves high precision locking. This means a strong joint with a precise angle and secure grip around the entire shaft. With SKF precision lock nuts, you can rely on two, well-documented designs: KMT and the compact KMTA. Both offer high precision and simplicity that contribute to enhanced efficiency and cost effectiveness. In fact, they can help you reduce assembly time of super precision bearing arrangements by up to 20%.



## No special tools required

With SKF precision lock nuts, you get easy handling every step of the way. Mounting and dismounting is quick and simple. They feature a user friendly, highly functional design which makes mounting and dismounting quick and simple. This saves time and virtually eliminates the risk for errors. What is more, there is no need for locking washers, keyways or special tools. It's that easy.

## No machining needed for balancing

Adjusting SKF precision lock nuts is quick and easy thanks to the integrated adjustment screws. The three equally spaced locking pins and grub screws enable the nut to be accurately positioned at right angles to the shaft or they can be used to adjust for inaccuracies or deviations of other components located on the shaft. This helps reduce, if not eliminate, the need for machining to compensate for unbalanced components.

## High, long-term reliability

SKF precision lock nuts have been specifically developed for use with SKF Super Precision Bearings to offer excellent precision, effective locking and high reliability over the long term.

KMT and KMTA lock nuts feature three-point locking for optimum distribution of the locking force. The locking device and nut thread are machined in the same operation and therefore have exactly the same profile. The front plane has a runout of maximum 0,005 mm related to the nut thread.

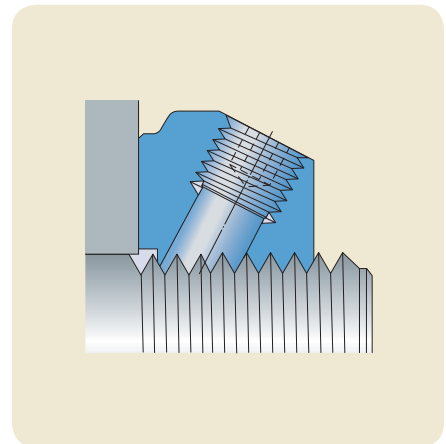
The long thread on the nut is designed to withstand high axial forces. And the large diameter of the locking device ensures good locking force. The locking device is not affected by axial forces acting in the application and retains its locking ability even after removal.

## Quick removal cuts downtime

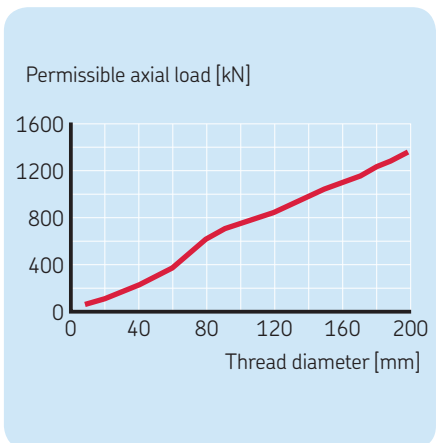
If the bearings require service, precision lock nuts help speed up the process, since they are designed for quick and easy removal. This helps keep production downtime required for servicing to a minimum. What is more, the locking nuts can be re-used over and over again – they retain their high precision regardless of how many times they are mounted and dismantled.

<b>Material:</b>	Alloy steel
<b>Finish:</b>	Phosphated and saturated with oil
<b>Locking pin:</b>	Sintered steel
<b>Grub screw:</b>	Type MT6SS short pin (DIN 915, 45 H)
<b>Thread tol:</b>	5H (ISO 965/3-1980)
<b>Recommended tol for shaft threads:</b>	6g (ISO 965/31980)

*KMT/KMTA material features*



*Effective locking*



*Permissible axial load*

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