

Technical Information September 2019

Lubrication for ball screws

Improved initial lubrication of ball screws

The initial lubrication of ball screws serves to ensure the supply of lubricant until the introduction of central lubrication or manual relubrication.

Steinmeyer Albstadt improves the process reliability of the initial lubrication of ball screws through partial automation as part of product development.

Benefits:

- Process-safe application of grease for initial lubrication
- More even grease distribution in the nut
- Optimized grease quantities depending on the size of the ball screws

For ball screws, the lubricant supply must be matched to the wipers or seals on the nut. When selecting the right grease for initial lubrication, not only the environmental conditions but also the operating conditions play a role. The selection of an unsuitable initial lubricant can lead to noticeable losses in the service life of the ball screw - for this reason, Steinmeyer generally converts the initial lubrication to our proven and standardized lubricants.

Ball Screws > Ø 16 mm

Standard Lubrication	Alternative Special Lubrication					
Divinol Lithogrease 000	Klüberplex BEM 34-131N	Klüber NBU 8	Fuchs Gleitmo 585 M	Klübersynth BR 46-82	Klübersynth UH1 14-151	Castrol Spheerol EPL 000
Standard grease for connection to a central lubrication system	Barium-free standard grease for undefined relubrication in highly dynamic applications	Alternative for undefined relubrication and medical applications	Lubricant paste for special applications	Special lubrication for automotive applications and High & low temperature	Special lubrication for food application	Alternative for central lubrication supply

Divinol Lithogrease 000 is the new standard in ball screws for axes in mechanical engineering applications equipped with a central lubrication system. Our standard fluid grease is evenly distributed in the nut and is compatible with all common operating lubricants (fluid grease or slideway / gear oil used by the customer).

Rolling bearing greases Alternatively for ball screws special rolling bearing greases are used for equipment construction. Above all if no defined relubrication is carried out, it is very important that the quantity of grease applied during the initial greasing process is sufficient for a longest possible service life - without the need for the friction torque of the ball screw to increase too much.

Special grease for high temperature or vacuum applications

Steinmeyer also offers a range of synthetic lubricant solutions for such applications. Particular care is taken to ensure that the pre-lubricant is also cleaning and conservation process is optimal is designed to do that.

Talk to us about our verified lubricants - we will be pleased to advise you.