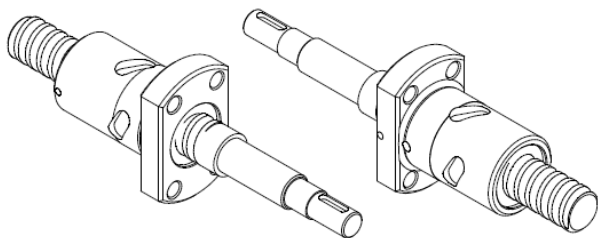


## Operating instructions

*for ball screws*

*and*

*lead screws*



**Please follow  
operating instructions!**

Operation / installation of a ball screw requires specialist knowledge.

To prevent damage and breakdown of the ball screw, please closely follow these instructions. Warranty is otherwise void.

### **Transport / Packaging**

Check packaging for damage. Any damage should immediately be reported to the driver / courier and Karl Hipp GmbH.

### **Handling**

Ball screws should be handled with care and must not be dropped.

The nut must not be tightened on the spindle end as this can cause bearings to become misplaced in the reversing mechanism and make the drive fail.

Should this happen, please do not wind the nut back on the spindle as this will damage the thread. Contact us, we will be pleased to help you.

### **Storage**

Please store ball screws in the packaging they are delivered in until ready for use. The quattro-pack, foil and applied grease offer sufficient protection against corrosion. We do not recommend de-greasing or alternative storage methods.

*Be very careful to prevent long spindles from being bent!*

### **Installation**

The installation of ball screws requires specialist knowledge and measuring equipment.

Be sure to avoid misalignment. Radial or eccentric forces must be taken up by external guides. To avoid damage to the ball screw drive, limit switches and end stops must be installed in the machine.

# Lead Screw

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## **Lubrication**

Regular lubrication is essential to ensure functionality and longevity of the ball screw.

Lubrication should be carried out according to usage and regularly monitored and adjusted to requirements. We generally recommend central lubrication. Should this not be possible, manual lubrication is necessary.

Standard lubrication on delivery  
STABURAGS NBU 12/300.

Add grease after ca. 2 months as appropriate to the volume lost via the wipers (under normal operating conditions, it is sufficient to add grease every 200 to 300 hours).

Clean the spindle with a clean, lint-free cloth. Re-oil / -grease immediately after cleaning to prevent corrosion.

In our experience, it is not sufficient to grease just once in the lifetime of a ball screw due to loss of grease.

***We recommend that you regularly monitor quality and quantity of remaining grease.***

## **Special notes regarding lead screws**

Lead screws must be carefully aligned during installation.

## **Lubrication**

Standard lubrication of lead screws on delivery is with slideway oil DIN 51517 SGLP or Cincinnati P47/P50.

***The user is to ensure sufficient lubrication. The lubrication film must not be allowed to break.***

Should the user apply a different suitable oil or grease, the spindle must be carefully cleaned before application.

## **Questions**

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*For any other questions, our technical team (construction) will be pleased to help.*

*Lubrication instructions and data sheets regarding greases / oils used can be obtained from our technical team.*

**Precision in motion**



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