

## Lubricants

## for screw jacks

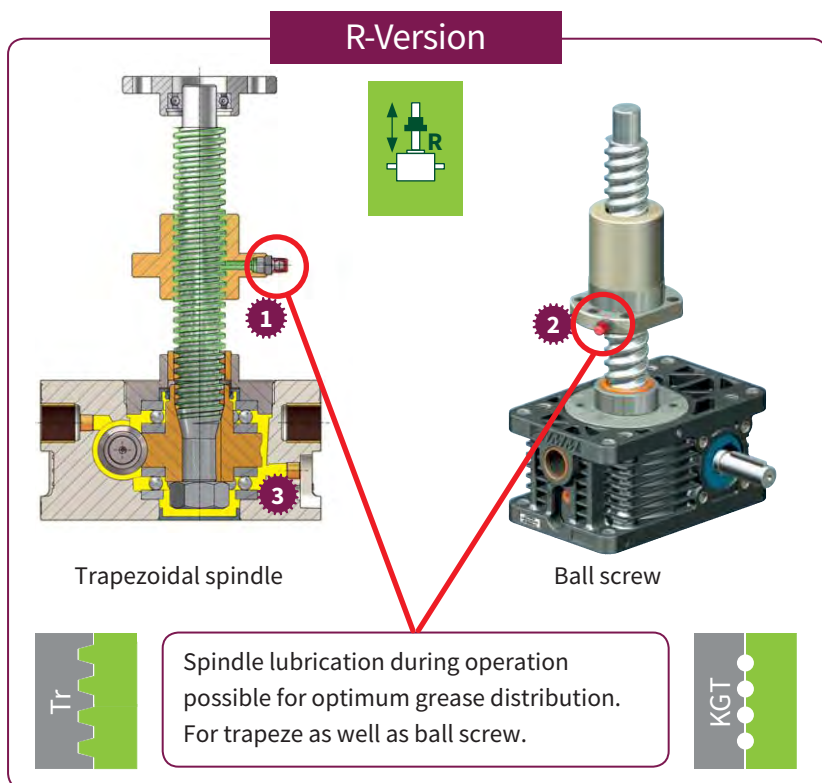
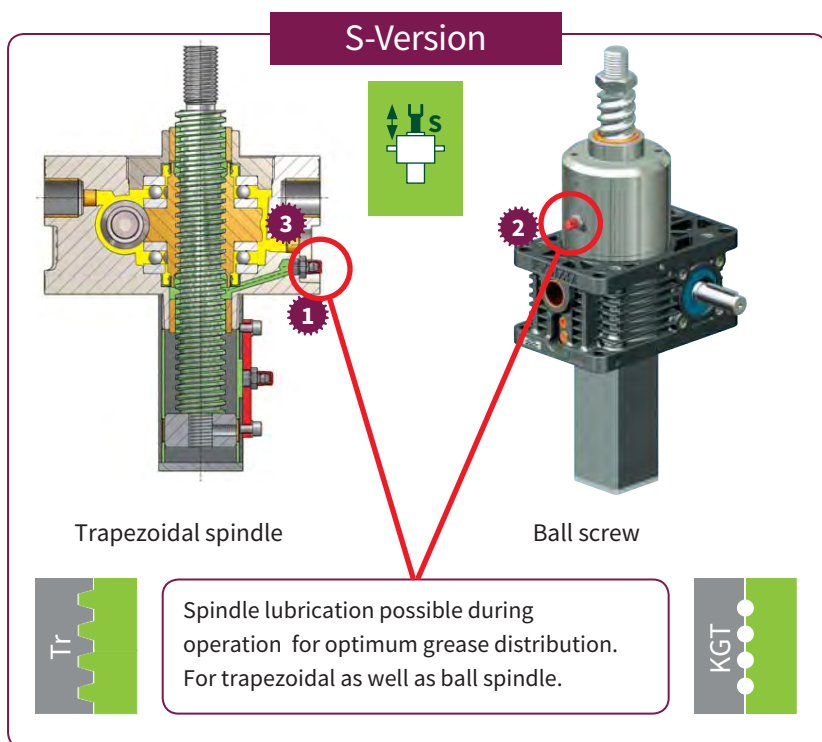
### Innovative, separate lubricants:

- 1 Trapezoidal spindle**  
The lubricants selected by us. These are optimally matched to the application in our screw jack systems. Depending on the duty cycle, ...
- 2 Ball screw KGT**  
Lubricate the ball screw KGT every 300 hours after effective running time. At high loads all ...
- 3 Gear lubrication**  
Our ZIMM screw jacks are sealed and filled with a high quality, synthetic fluid grease. In normal operation is ...

**Spindle lubrication during operation possible for optimum grease distribution. For trapeze as well as ball screw.**

## Innovative, separate lubrication

# Innovative, separate lubrication



## Use the optimum lubricant for a long service life!

These lubricants have been carefully selected for the requirements of the screw jack. Caution is advised when using other lubricants! A "good" fat does not always have to be the "right" fat. The alignment on the requirements is important.

## The innovation:

The separate lubrication system is decisive for the high performance.



The same INNOVATION is also possible with the GSZ series.



### 1 Trapezoidal spindle

The trapezoidal thread spindle has to be inspected and regreased regularly, depending on the working cycle. Use the fats selected by us. These are optimally matched to the application in our lifting systems.

### 2 Ball screw KGT

Lubricate the ball screw KGT every 300 hours after effective running time. At high loads every 100 hours. Quantity of grease: approx. 1 ml per cm spindle diameter.

### 3 Gear lubrication

The screw jack is sealed and filled with a high-quality, synthetic fluid grease. During normal operation, the gearbox is lubricated for life.

The gearboxes are sealed and life-lubricated under normal conditions. At elevated temperatures and high duty cycles, a grease change may be necessary.

1 Trapezoidal thread TR		Lubricant-Type			suitability	
application		Grease	base oil	thickener	appropriate	Conditional / not appropriate
Standard grease up to size 150kN		Tribol GR 4020/460-2 PD	mineral	Li-Compl.	best properties in normal conditions and temperatures	very stiff at low temperatures
Standard grease upward of size 250 kN		Tribol GR 3020/1000-2 PD	mineral	Lithium	high loads, slow speeds, upward of size 250kN	very stiff at low temperatures
High performance grease, high temperature grease		Tribol GR XT 2HT	synthetic PAO	polyurea	at high duty cycle or at high ambient temperature	at constant temperature upward of about 160 ° C low fat lifetime
High temperature grease up to 200 C °		Braycote 2115-2	synthetic PFPE	PTFE	long lifetime at high continuous temperature up to 200 ° C, cleanroom, vacuum and food	high price
Low temperature grease		Tribol GR 4747/220-2HT	synthetic PAO/ Ester	Li-Compl.	optimal properties and smooth at low temperatures	above 60 ° C operating temperature too low viscosity
Food grade lubricant		Tungrease CH2	synthetic PAO	Al-Compl.	approved for food industry, NSF-H1	at minus temperatures slightly stiff

2 Ball screw KGT		Lubricant-Type			suitability	
application		Grease	base oil	thickener	appropriate	Conditional / not appropriate
Standard grease for KGT		Tribol GR 4747/220-2HT	synthetic PAO/ Ester	Li-Compl.	high quality, synthetic grease for all standard applications	
Food grade lubricant		Tungrease CH2	synthetic PAO	Al-Compl.	approved for food industry, NSF-H1	

3 Gear fluid grease (Z + GSZ)		Lubricant-Type			suitability	
application		Grease	base oil	thickener	appropriate	Conditional / not appropriate
Standard grease for transmission, food grade grease upward of size 250 kN, oil for large gearboxes (over 500 rpm) - ISO 460 PG, oil for large gearboxes (up to 500 rpm) - ISO 1000 PG		Optileb GR UF 00	synthetic PAO	Al-Compl.	very high quality, synthetic grease for all standard applications with NSF H1 approval	
Heavy-duty grease		Castrol Tribol 3020/1000-00	mineral	Lithium	high loads, low speeds, Z-250 bis Z-1000 ≤ 250 rpm	very stiff at low temperatures
High temperature grease up to 200 C °		Braycote 2115-0	synthetic PFPE	PTFE	long lifetime at high continuous temperature up to 200 ° C, cleanroom, vacuum and food	high price

At operating temperatures up to 70 ° C, the best lubrication properties are usually achieved with the standard greases. Depending on the ambient temperature, load and duty cycle, the grease becomes too fluid for good lubrication at higher operating temperatures. Especially with trapezoidal thread spindles, high temperatures are reached quickly. Here then the high-temperature and high-performance greases are used. We are happy to advise you on your application parameters.

**ATTENTION:** At low temperatures, higher idle and breakaway torques are generally to be expected. In this case synthetic fats are much better than mineral fats.

**INFO:**  
All spindle greases are available in cartridges 400g (for trapezoidal thread R 0 Alloy 2115: 800g, since density approx. 2). The cartridge also fits in standard grease guns.

# ZIMM®



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