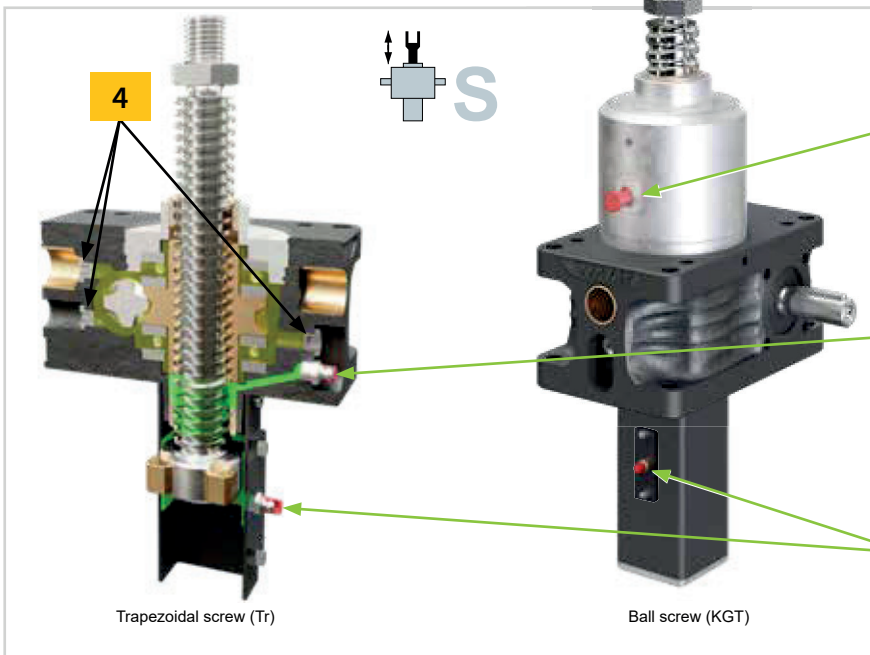


Innovative separate lubrication

Lubricants for screw and gearbox



Screw lubrication during operation provides optimum grease distribution

1 Ball screw KGT
Lubricate the ball screw KGT every 300 hours of effective operation. For heavy-duty systems every 100 hours.
Grease quantity:
Guidance value approx. 1 ml per cm screw diameter.

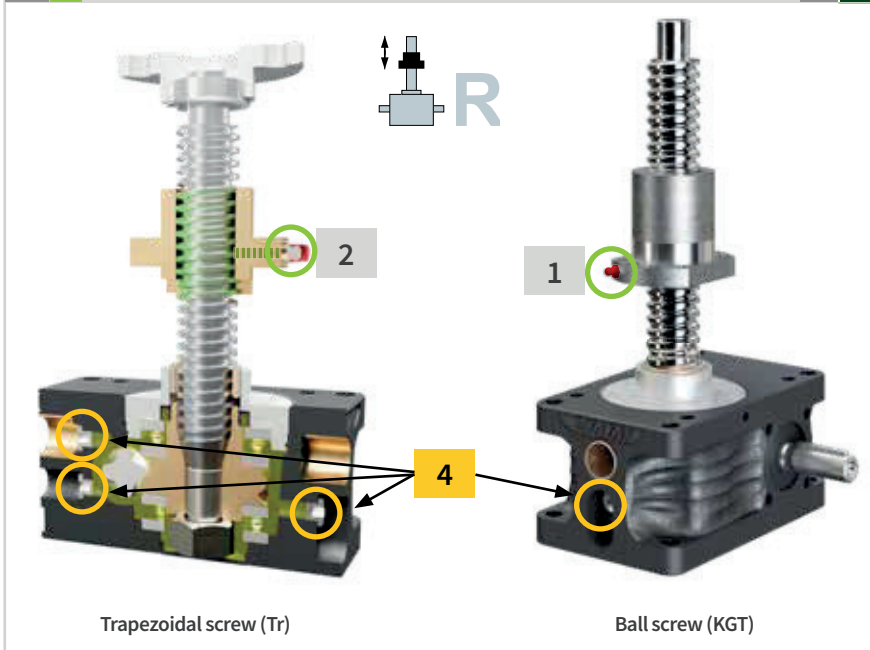
Trapezoidal screw Tr
2 Inspect the trapezoidal screw regularly and regrease it depending on the operating cycle. Use the grease that we recommend. These greases are ideally matched to the operating requirements of our screw jack systems.

Rotation protection VS
3 The rotation protection features sliding blocks made of bronze. These can be lubricated by using grease nipples on the protective tube during operation.

Gearbox lubrication

4 The gearbox is sealed and is filled with highperformance synthetic grease or oil. The gearbox is lubricated for life in normal operation.

Screw lubrication during operation possible
Engineered by the ZIMM R&D team, for optimum grease distribution. For trapezoid threaded screws and ball screws.



Note

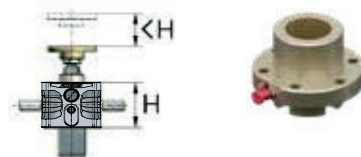
At operating temperatures up to 70 °C, the best lubrication properties are usually achieved with the standard greases. Depending on the ambient temperature, load and duty cycle, the grease becomes too fluid for good lubrication. Especially with trapezoidal thread spindles, high temperatures are reached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

WARNING: Higher idle and breakaway torques are generally to be expected at low temperatures. Synthetic fats are much more suitable than mineral fats here.

Lubrication for short stroke applications

S-Version: For short stroke applications (stroke < gearbox height), take particular care to ensure lubrication of the trapezoidal screw. The simplest tactic is to specify the screw jack with a longer stroke than the gearbox height, and periodically perform a lubrication stroke. Otherwise, contact our Engineering Department for a suitable solution.

R-Version: If stroke length < nut height, use a nut with lubrication capability (such as a duplex nut DM).



Long-life systems

The grease used in long-life systems (such as working platforms and theatre stages) loses its lubricating properties after about 5 years. Dust and dirt penetration intensify this effect. We recommend complete cleaning and regreasing after 5 years. If mineral greases are used, this may be necessary after only 2-3 years.

Lubrication

Recommended, tested lubrications for most favorable life-span

Tr	Trapezoidal screw Tr		Lubricant-Type		Suitability	
	Application	Grease	Appropriate	Conditional/ not appropriate		
	Standard grease up to size 200kN	Tribol GR 4020/460-2 PD	best properties in normal conditions and temperatures	very rigid at low temperatures		
	Standard grease from size 250kN	Tribol GR 3020/1000-2 PD	higher loads, slow speeds from size 250 kN	very rigid at low temperatures		
	High performance grease up to 100°C	Tribol GR 4747/220-2	at increased temperature	cost effective		
	High performance grease up to 150°C	Braycote 2115-2	long lifetime at high continuous temperature, cleanroom, vacuum and food processing	high price		
	Low temperature grease	Tribol GR 4747/220-2	optimum properties and smooth at low temperatures			
	Food grade grease	Tungaloy CP-2/200	approved for food industry, NSF-H1			
	Spindel grease ZE-H series	Tungaloy BS	for high operating cycles or higher loads			
KGT	Ball screw KGT		Lubricant-Type		Suitability	
	Application	Grease	Appropriate	Conditional/ not appropriate		
	Standard grease for KGT	Tribol GR 4747/220-2HT	high quality, synthetic grease for all standard applications			
	Food grade grease	Tungaloy CP-2/200	approved for food industry, NSF-H1			
G	Getriebe-Fließfett (ZE, Z + GSZ)		Fett-Type		Eignung	
	Application	Grease	Appropriate	Conditional/ not appropriate		
	Standard grease gearbox, food grade grease	Optileb GR UF 00	very high quality, synthetic grease for all standard applications with NSF-H1-approval			
	Heavy-duty grease from 250 and ZE-H	Tevier PG Oil	high loads, low speeds, Z-250 to Z-1000			
	High temperature grease up to 150°C	Braycote 2115-0	Long lifetime at high continuous temperatures, cleanroom, vacuum and food	high price		

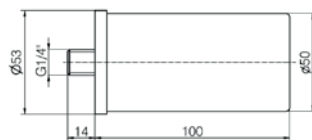
For special applications and for the earlier gearboxes we can offer suitable lubricants in each case.

Other greases, contamination

Using multipurpose greases and other greases can significantly impair operation and shorten the service life. If the screw becomes dirty, clean and regrease it.



Lubricants Z-LUB & KART

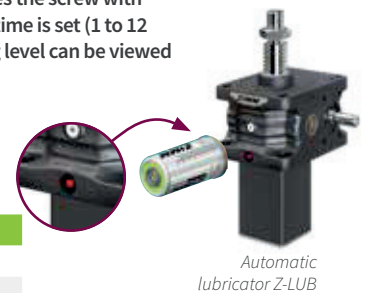


Code	Description	Grease	Quantity mL
Z-LUB	ZIMM-Lubricator incl. reducer	see table	250, *125, 60, 30, *15
KART	Standard spindle grease cartridge	see table	400g

*In stock, other sizes available on request.

The ZIMM lubricator Z-LUB continuously supplies the screw with lubricant. The Z-LUB is activated when the run-time is set (1 to 12 months at 20°C) (gas generation cell). The filling level can be viewed all the time in the transparent housing.

All spindle greases are available in cartridges 400g.



Automatic lubricator Z-LUB

Ordering example: **Z-LUB-125-/Tribol GR 4020/460-2 PD**

Quantity: 125mL

Filling: