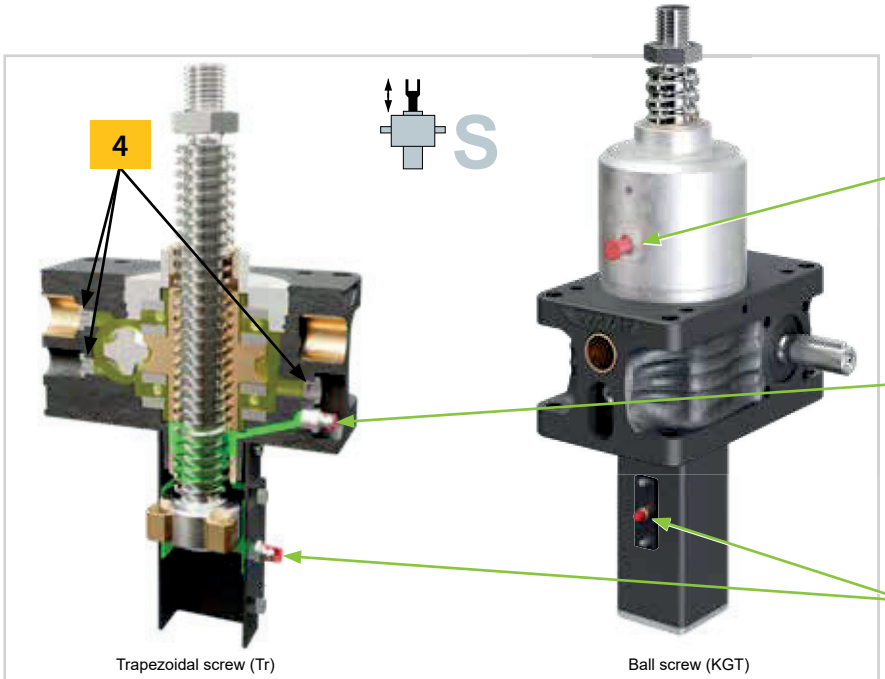
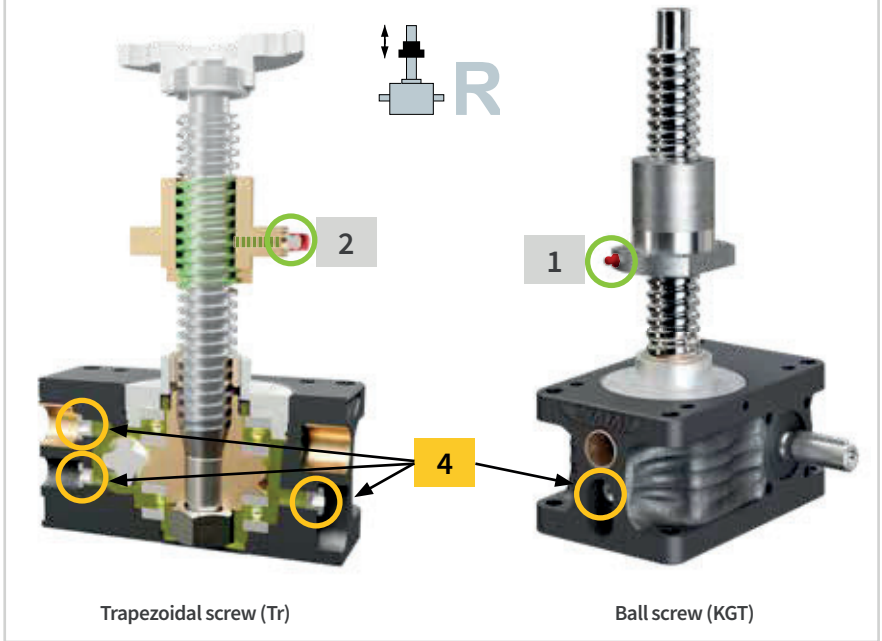
Innovative separate lubrication

Lubricants for screw and gearbox



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



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 highpreformance synthetic grease or oil.
The gearbox is lubricated for life in normal operation.

Note

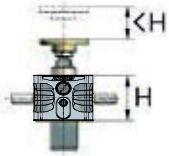
At operating temperatures up to 70 ° C, the best lubrication properties are usually achieved with the standard greases. Depending on the ambient temperature, load and duty cycle, the grease becomes too fluid for good lubrication. Especially with trapezoidal thread spindles, high temperatures are reached 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.