



BALL SCREW DRIVES FACTS

Speed:

The maximum spindle speed is 3000 rpm. Permissible up to Ø 50 mm and under optimal conditions.

Accuracy:

The pitch accuracy is 0.05 mm/300 mm (other accuracies are available on request). The axial clearance is usually 0.08 mm. Narrowed axial clearance of 0.02 mm is available on request.

Duty cycle:

Ball screw drives enable duty cycles of up to 100%. A high load combined with a high duty cycle can reduce the service life.

Installation position:

The installation position may be selected as desired. The only aspect that must be taken into account is that all radial forces that occur must be absorbed by external guides.

No self-locking:

Due to their low rolling friction, ball screw drives have no self-locking. This means that a holding brake must be used.

Temperatures:

The operating temperature is -25°C to +80°C. The duty cycle can be up to 4x higher than with a trapezoidal screw drive and up to 2x higher than with a trapezoidal screw drive in the case of high pitches.

Pollution:

The nuts are always equipped with wipers. In the event of heavy soiling and fine dust/chips, we recommend the installation of bellows or a coil spring cover.

Lubrication:

Correct lubrication, low heat development and smooth running are essential to ensuring the service life of a ball screw drive. The same lubricants are used for KGT ball screw drives as are used for roller bearings.

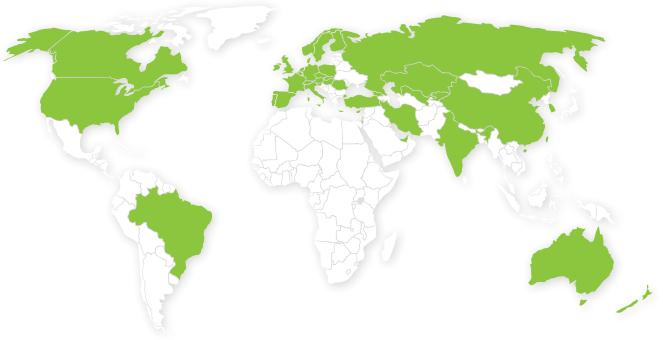
Service life calculation:

We would be happy to calculate the service life according to your requirements.

Have questions? Need a customised, reliable and safe solution for your particular task? Our skilled and reliable office and field sales teams would be happy to help you

- ZIMM, Movement with precision.

PRODUCTION FACILITIES AND INTERNATIONAL DISTRIBUTION NETWORK





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