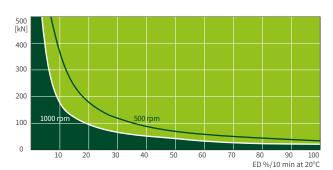
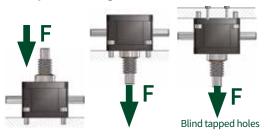


Duty cycle thermal limit (S+R)



These curves are for guidance under standard industrial conditions (ambient temperature 20°C etc.) and correct maintenance (lubrication etc.). They are based on the ZIMM standard trapezoidal thread Tr 120x16. With the use of a ball screw, the operation cycles can be many times longer.

Screw jack mounting Z-Series



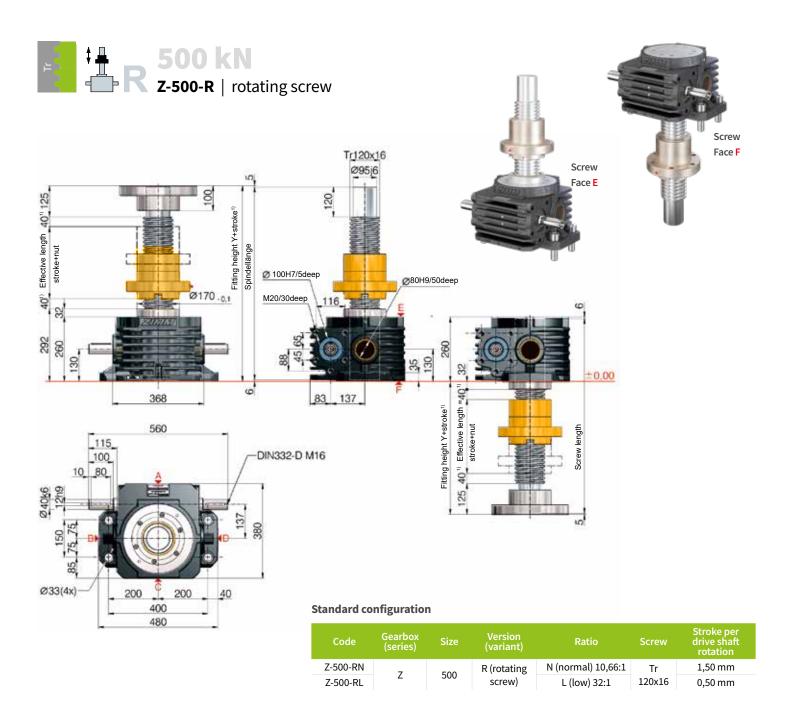
Full rated load (tension and compression)

The gearbox can accept the full static rated load. If the fixing screws are subject to tensile loads, the gear unit can only be loaded to the nominal static load if the additional blind tapped holes (<u>Face F</u>) are used.

The permissible load depends on the type of fastening.



Reduced load (Z-Series, If the fixing screws on the housing are loaded in tension, only reduced loads are permissible.



Technical data serie Z-500-S / Z-500-R

max. compressive/tensile force, static: 500 kN (50 t) max. compressive/tensile force, dyn.:

Input speed:

Screw size standard: Gear ratio: Housing material: Worm shaft:

Weight of screw jack body: Weight of screw/m: Gearbox lubrication: Screw lubrication:

Gearbox operating temperature: Moment of inertia:

Input torque (at 1000 rpm):

Drive-through torque: Drive torque Mg (Nm):

Breakaway torque:

see duty cycle curves 1000 rpm / max. 1000 rpm

(depending on the load and duty cycle)

Tr 120x16²⁾ 10,66:1 (N) / 32:1 (L) GGG-50, corrosion-resistant steel, case-hardened, ground 168 kg

77 kg synthetic gear oil grease lubrication

max. 60°C, higher on request N: 310,2 kg cm² / L: 127,8 kg cm² max. 408 Nm (N) / max. 170 Nm (L) max. 1940 Nm

F (kN) x 1,243,41 (N-Normal) F (kN) x 0,50^{3,4)} (L-Low) Drive torque Mg x 1,5

Make a plan to keep a safe distance of at least 40 mm between gearbox and nut or between nut and threaded end!

Detailed calculation of the fitting dimensions (bellows, screw, protective tube...) can be conveniently determined with our online configurator: www.zimm.com

Important information:

- If a bellow, spiral spring or double pitch is used more fitting space is required
- Tr 120x16 is standard, also available: double-pitch, INOX, left-handed, increased screw Tr 140x20 (only for the R-Version)
- factor includes efficiency, ratio and 30% safety 3)
- for a 16 mm screw pitch
- to calculate the length of our protective tube length SRO simply use our online configurator: www.zimm.com