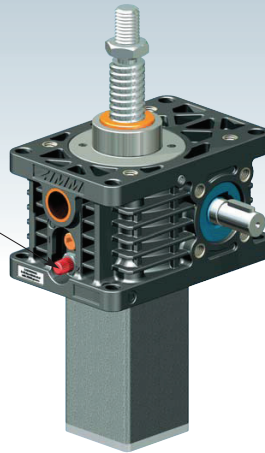
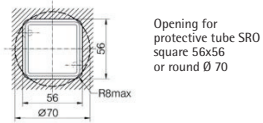
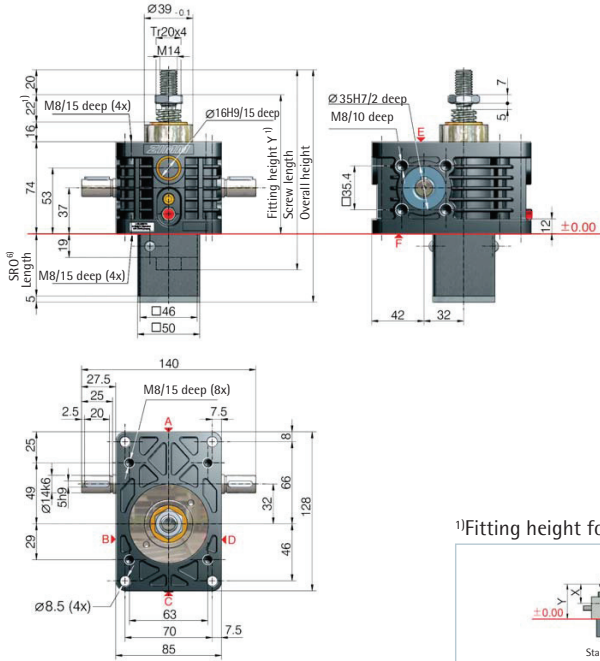




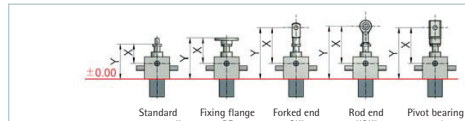
UNIQUE:  
Screw lubrication  
during operation



Z-10-S translating screw 10 kN



<sup>1)</sup>Fitting height for 0-stroke, with Tr 20x4 screw



<sup>2)</sup>Protective tube length SRO with Tr 20x4 screw

Without escape/rotation protection	Escape/rotation protection	Rotation protection, with limit switch set ES	Rotation protection with ES and KAR*
49+stroke	69+stroke	121+stroke	141+stroke

\*Hinged bearing plate KAR, fitted on face F (below).

\*with bellows fixing ring Z-10-FBR

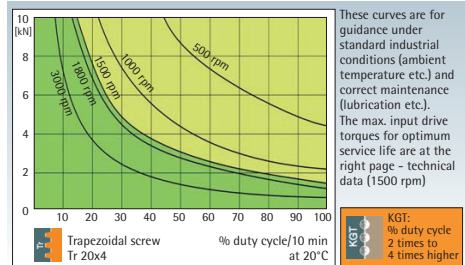
Standard ratios

Type	Version	Speed	Standard screw <sup>2)</sup>	i	Stroke per drive shaft rotation <sup>3)</sup>
Z-10-SN	Translating	Normal	Tr 20x4	4:1	1.00 mm
Z-10-SL	screw	Low speed		16:1	0.25 mm
Z-10-RN	Rotating	Normal	Tr 20x4	4:1	1.00 mm
Z-10-RL	screw	Low speed		16:1	0.25 mm

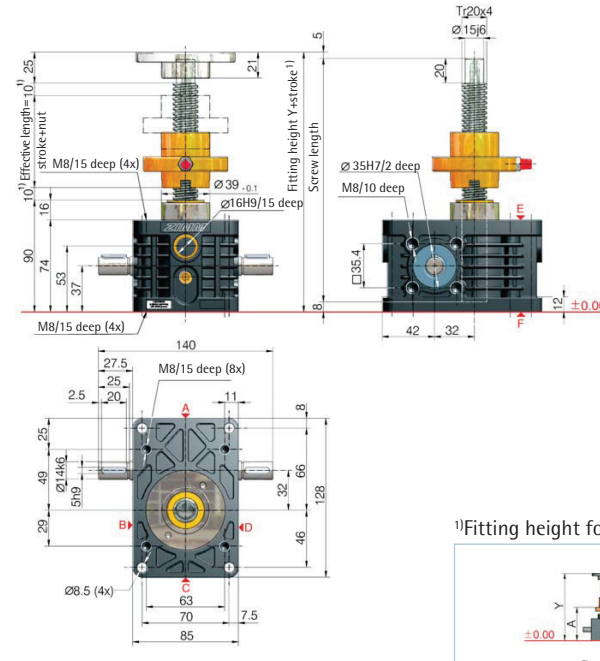
Screw jack mounting



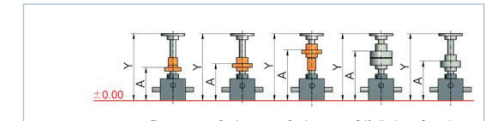
Duty cycle thermal limit, for S+R



Z-10-R rotating screw 10 kN



<sup>1)</sup>Fitting height for 0-stroke, with Tr 20x4 screw



10 kN

Technical data series Z-10-S / Z-10-R

max. compressive/tensile force, static	- 10 kN (1 t)
max. compressive/tensile force, dynamic	- see duty cycle curves
Nominal speed	- 1500 rpm
max. drive shaft speed	- 3000 rpm (depending on the load and duty cycle)
Screw size standard	- Tr 20x4 <sup>2)</sup>
Gear ratio	- 4:1 (N) / 16:1 (L)
Housing material	- aluminium, corrosion-resistant
Worm shaft	- steel, case-hardened, ground
Weight of screw jack body	- 2.1 kg
Weight of screw/m	- 2 kg
Gearbox lubrication	- synthetic fluid grease
Screw lubrication	- grease lubrication
Gearbox operating temperature	- max. 60°C, higher on request
Moment of inertia	- N: 0.641 kg cm <sup>2</sup> / L: 0.271 kg cm <sup>2</sup>
Input torque (at 1500 rpm)	- max. 13.5 Nm (N) / max. 7.5 Nm (L)
Drive-through torque	- max. 57 Nm

Drive torque M <sub>0</sub> (Nm)	- F (kN) x 0.64 <sup>3)</sup> + M <sub>0</sub> (N-normal) - F (kN) x 0.20 <sup>3)</sup> + M <sub>0</sub> (L-low speed)
Breakaway torque	- Drive torque M <sub>0</sub> x 1.5
Idling torque <sup>4)</sup> M <sub>0</sub> (Nm)	- 0.26 (N-normal) / 0.16 (L-low speed)
Between gearbox and nut or nut and end of thread, provide for a safety distance of (minimum) 10 mm!	
See Section 7 for the checklist.	
<b>Important information</b>	
1) - extension if a bellows or spiral spring is fitted: see the table or Section 8	
2) - Tr 20x4 is standard, also available: double-pitch, stainless steel, left-handed, increased screw Tr 30x6 (only for the R version)	
3) - factor includes efficiency, ratio and 30% safety	
4) - at 20°C, can be higher when new	
5) - for a 4 mm screw pitch	