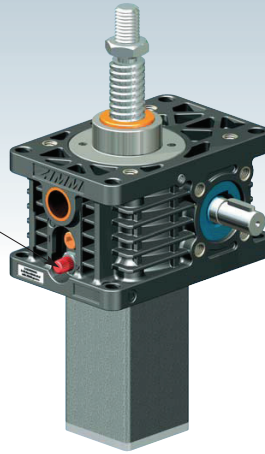
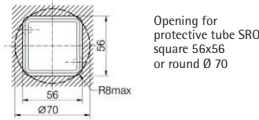
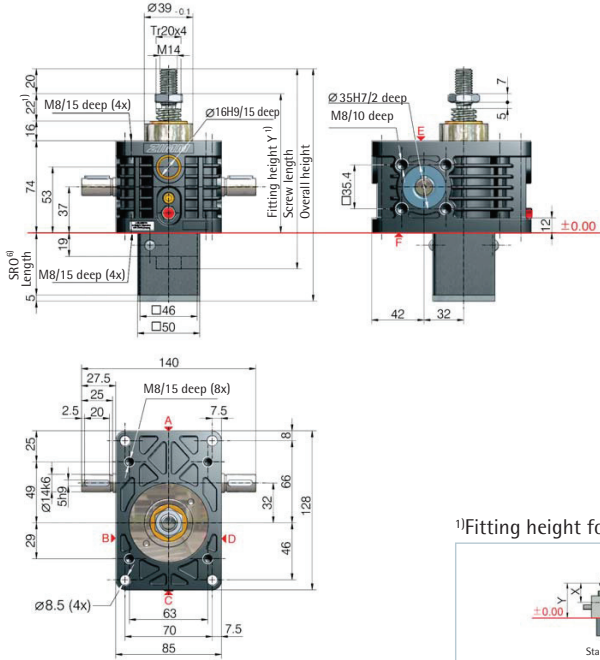




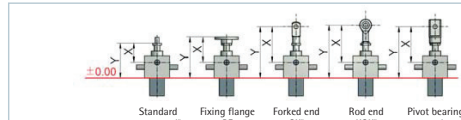
UNIQUE:  
Screw lubrication  
during operation



Z-10-S translating screw 10 kN



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

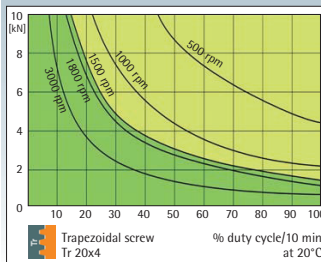


<sup>2)</sup>Protective tube length SRO with Tr 20x4 screw

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).

Duty cycle thermal limit, for S+R



These curves are for guidance under standard industrial conditions (ambient temperature etc.) and correct maintenance (lubrication etc.). The max. input drive torques for optimum service life are at the right page - technical data (1500 rpm)

KGIT: % duty cycle 2 times to 4 times higher

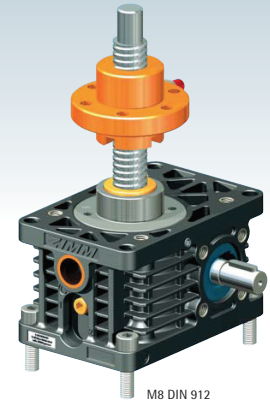
Standard ratios

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

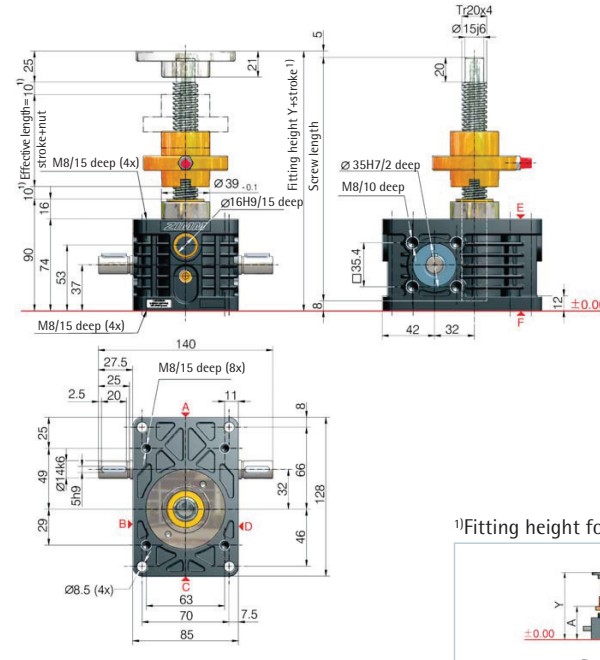
Screw jack mounting



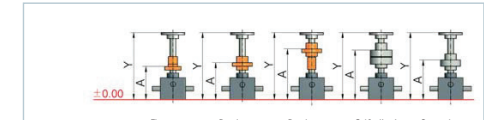
Z-10-R rotating screw 10 kN



M8 DIN 912



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



Detailed instructions for determining the length can be found in Section 8

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	