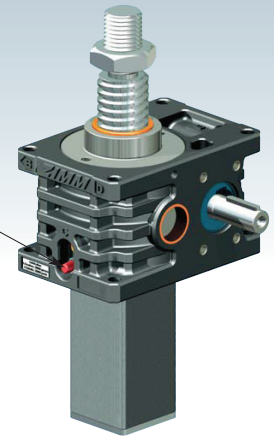
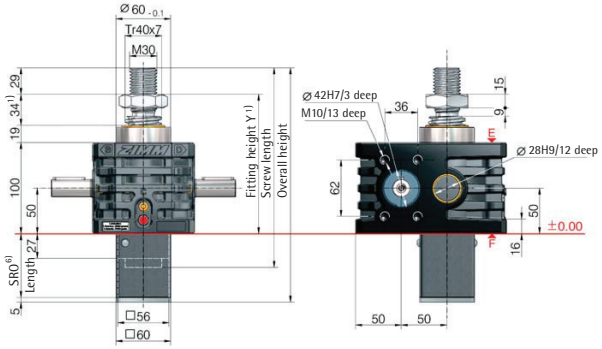
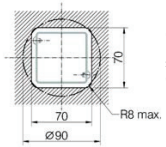
Trapezoidal screw Tr



UNIQUE:
Screw lubrication during operation

Z-35-S translating screw 35 kN



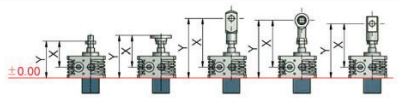


Opening for protective tube SRO square 70x70 or round Ø 90

6)Protective tube length SRO with Tr 40x7 screw

Without escape/ rotation protection	Escape/ rotation protection	Rotation protection, with limit switch set ES
57+stroke	87+stroke	143+stroke

1)Fitting height for 0-stroke, with Tr 40x7 screw



All dimensions in mm

Bellows FB	X/Y	X/Y	X/Y	X/Y	X/Y
without bellows FB	103/153	133/183	223/273	213/263	195/245
Z-50-FB-390	198/248	182/232	318/368	308/358	244/294
Z-50-FB-600	185/235	169/219	305/355	295/345	231/281
Z-50-FB-1000	243/293	227/277	363/413	353/403	289/339
Z-50-FB-1200	238/288	222/272	358/408	348/398	284/334
Z-50-FB-1500	293/343	277/327	413/463	403/453	339/389

*with bellows fixing ring Z-50-FBR

Standard ratios

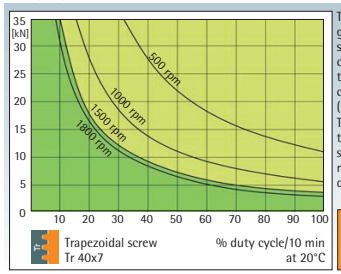
Type	Version	Speed	Standard screw 2)	i	Stroke per drive shaft rotation 5)
Z-35-SN	Translating	Normal	Tr 40x7	7:1	1.00 mm
Z-35-SL	screw	Low speed		28:1	0.25 mm
Z-35-RN	Rotating	Normal	Tr 40x7	7:1	1.00 mm
Z-35-RL	screw	Low speed		28:1	0.25 mm

Screw jack mounting

Full static nominal load

max. load: see Section 8

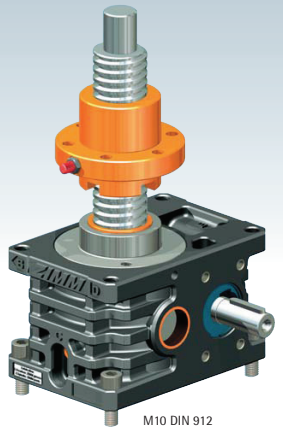
Duty cycle thermal limit, for S+R



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)

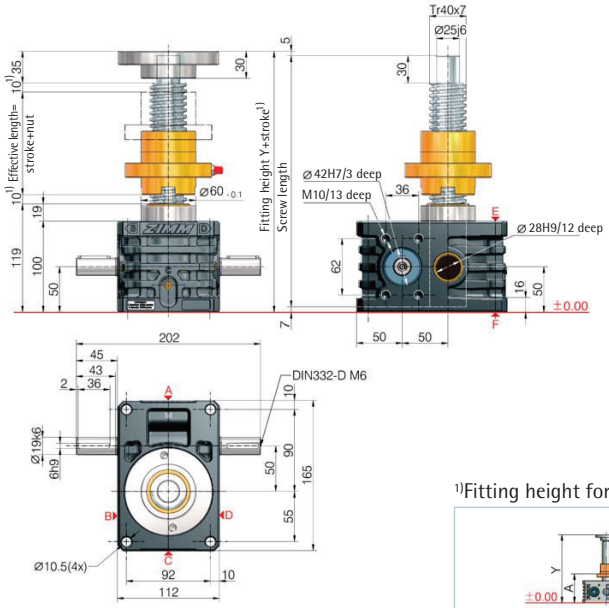
KGT: % duty cycle 2 times to 4 times higher

Trapezoidal screw Tr

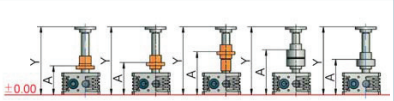


M10 DIN 912

Z-35-R rotating screw 35 kN



1)Fitting height for 0-stroke, with Tr 40x7 screw



All dimensions in mm

Bellows FB	Y/A	Y/A	Y/A	Y/A	Y/A
without bellows FB	240/145	244/163	307/226	303/228	259/179
2x Z-50-FB-390	–	387/236	446/295	446/301	404/254
2x Z-50-FB-600	–	361/223	420/282	420/288	378/241
2x Z-50-FB-1000	–	477/281	536/340	536/346	494/299
2x Z-50-FB-1200	–	467/276	526/335	526/341	484/294
2x Z-50-FB-1500	–	577/331	636/390	636/396	594/349

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

35 kN

Technical data series Z-35-S / Z-35-R

max. compressive/tensile force, static	- 35 kN (3.5 t)
max. compressive/tensile force, dynamic	- see duty cycle curves
Nominal speed	- 1500 rpm
max. drive shaft speed	- 1800 rpm
Screw size standard	- Tr 40x7 2)
Gear ratio	- 7:1 (N) / 28:1 (L)
Housing material	- GGG-50, corrosion-resistant
Worm shaft	- steel, case-hardened, ground
Weight of screw jack body	- 9.5 kg
Weight of screw/m	- 8 kg
Gearbox lubrication	- synthetic fluid grease
Screw lubrication	- grease lubrication
Gearbox operating temperature	- max. 60°C, higher on request
Moment of inertia	- N: 2.18 kg cm² / L: 0.90 kg cm²
Input torque (at 1500 rpm)	- max. 19.8 Nm (N) / max. 9 Nm (L)
Drive-through torque	- max. 130 Nm
Drive torque M_D (Nm)	- F (kN) x 0.69 3)5) + M_L (N-normal) - F (kN) x 0.23 3)5) + M_L (L-low speed)
Breakaway torque	- Drive torque M_D x 1.5
Idling torque 4) M_L (Nm)	- 0.56 (N-normal) / 0.40 (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.

Important information
1) - extension if a bellows or spiral spring is fitted: see the table or Section 8
2) - Tr 40x7 is standard, also available: double-pitch, stainless steel, left-handed, increased screw Tr 55x9 (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 7 mm screw pitch