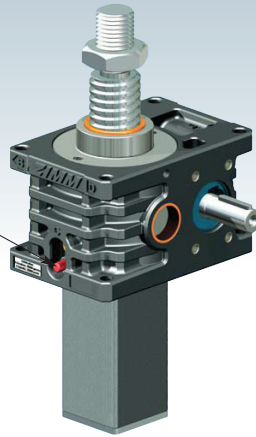
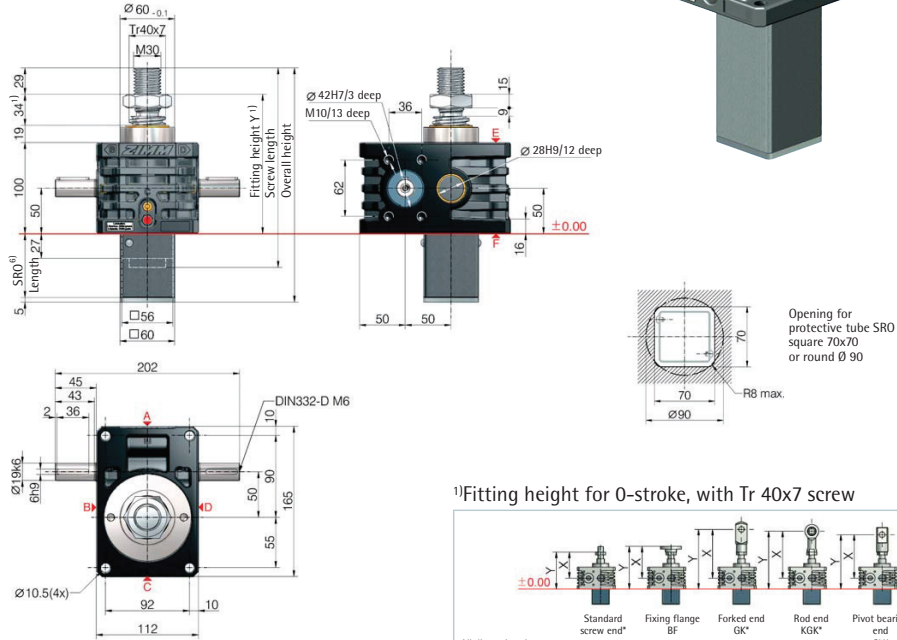




UNIQUE:
Screw lubrication
during operation



Z-35-S translating screw 35 kN



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

Standard ratios

Type	Version	Speed	Standard screw ²⁾	i	Stroke per drive shaft rotation ³⁾
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



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

Diagram showing the fitting height for 0-stroke with Tr 40x7 screw. The diagram shows the screw jack with the screw and nut, and the fitting height is indicated as ± 0.00 .

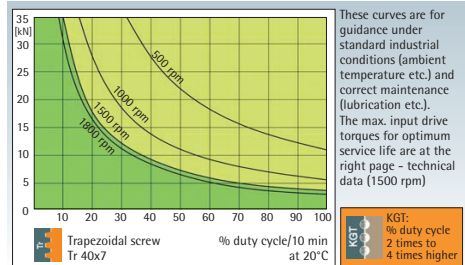
Standard screw end*	Fixing flange BF	Forked end GK*	Rod end KKG*	Pivot bearing end SLK
±0.00	±0.00	±0.00	±0.00	±0.00

All dimensions in mm

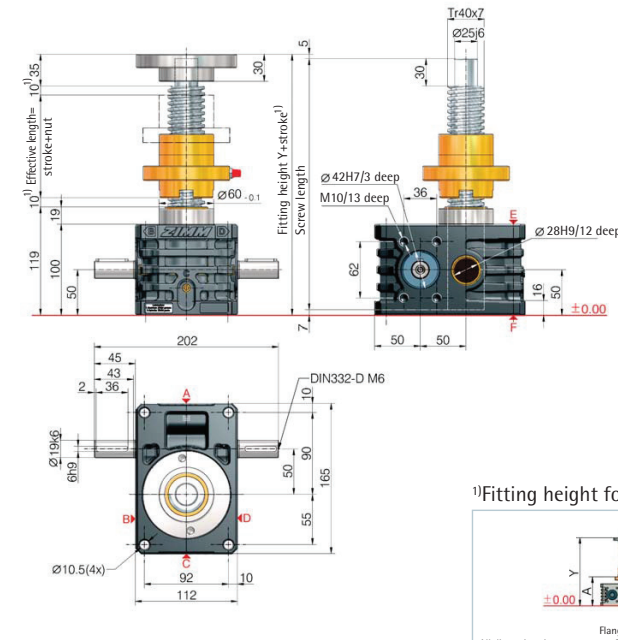
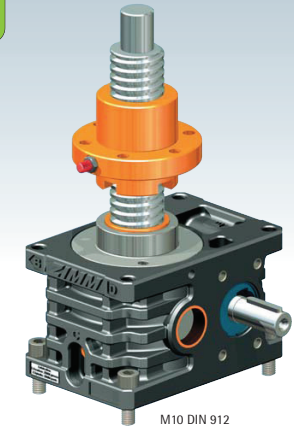
Bel lows FB	X/Y	X/Y	X/Y	X/Y	X/Y
without bellows FB	103/153	133/183	223/273	213/263	195/245
Z-50-FB-390	198/248	182/232	318/368	308/358	244/294
Z-50-FB-600	185/235	169/219	305/355	295/345	231/281
Z-50-FB-1000	243/293	227/277	363/413	353/403	289/339
Z-50-FB-1200	238/288	222/272	358/408	348/398	284/334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

*with bellows fixing ring Z-50-FBR

Duty cycle thermal limit, for S+R



Z-35-R rotating screw 35 kN



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

Diagram showing the fitting height for 0-stroke with Tr 40x7 screw. The diagram shows the screw jack with the screw and nut, and the fitting height is indicated as ± 0.00 .

All dimensions in mm	Flange nut FM	Duplex nut DM	Duplex nut DM with SIFA	Self-aligning nut PM	Greasless nut FDM
Bel lows 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 cm ² / L: 0.90 kg cm ²
Input torque (at 1500 rpm)	- max. 19.8 Nm (N) / max. 9 Nm (L)
Drive-through torque	- max. 130 Nm

Drive torque M ₀ (Nm)	- F (kN) x 0.69 ³⁾ + M ₀ (N-normal)
	- F (kN) x 0.23 ³⁾ + M ₀ (L-low speed)
Breakaway torque ⁴⁾	- Drive torque M ₀ x 1.5
Idling torque ⁴⁾ M ₀ (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