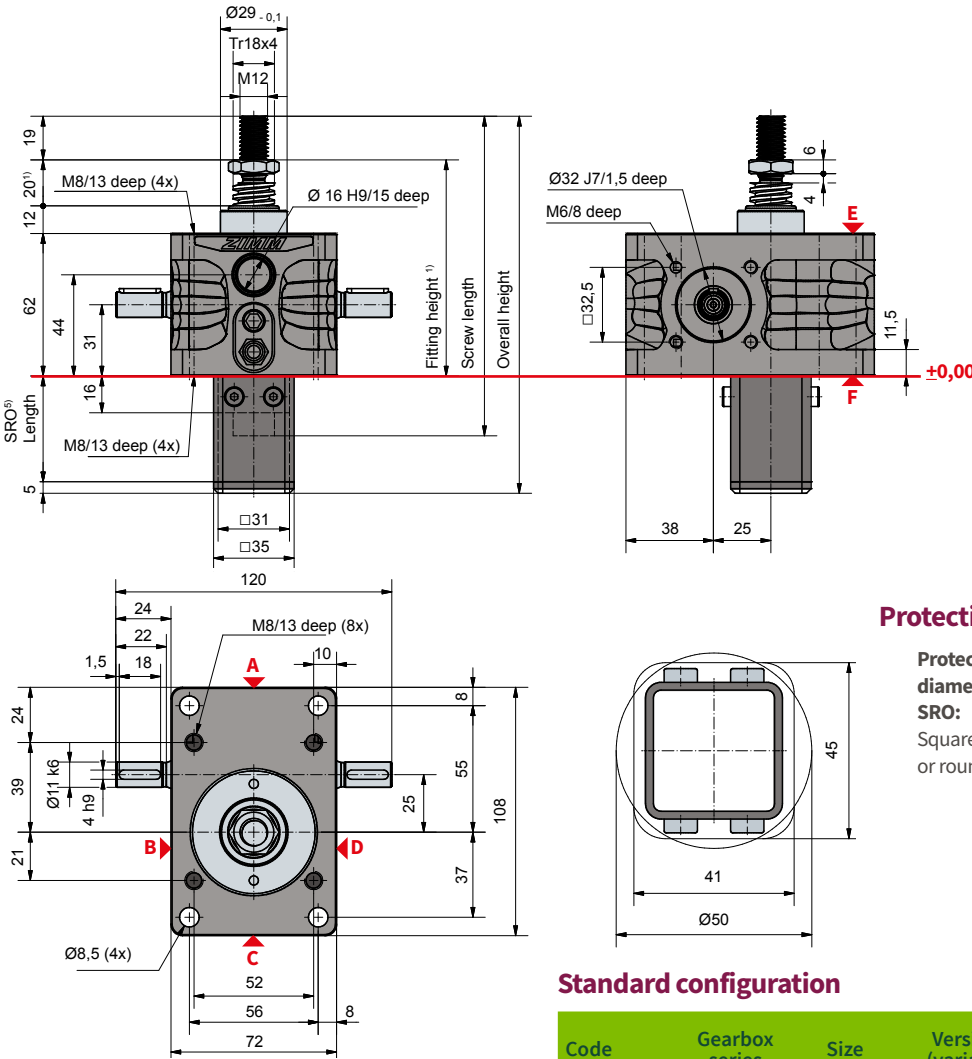


5 kN
ZE-5-S | translating screw



Protective tube length SRO with Tr 18x4-screw

Protective tube diameter SRO:	Configuration	Stroke
Square or round.	w/o escape protection/ anti-rotation device	46 + Stroke
	Incl. escape protection/ anti-rotation device	61 + Stroke
	Incl. anti-rotation device and limit switch ES	119 + Stroke
	Incl. anti-rotation device, ES and KAR	140 + Stroke

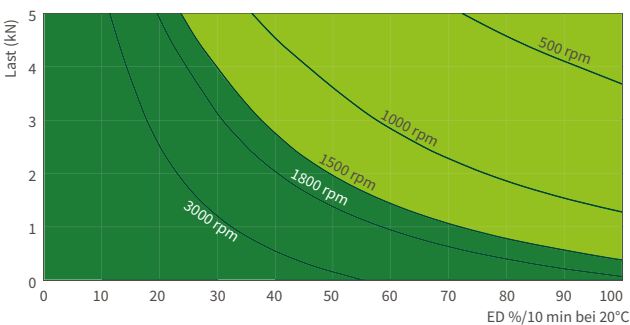
Standard configuration

Code	Gearbox series	Size	Version (variant)	Speed & ratio	Screw size	Stroke per drive shaft rotation
ZE-5-SN	ZE	5	S (translating screw)	N (normal) 4:1	Tr 18x4	1,00 mm
ZE-5-SL				L (low-speed) 16:1		0,25 mm

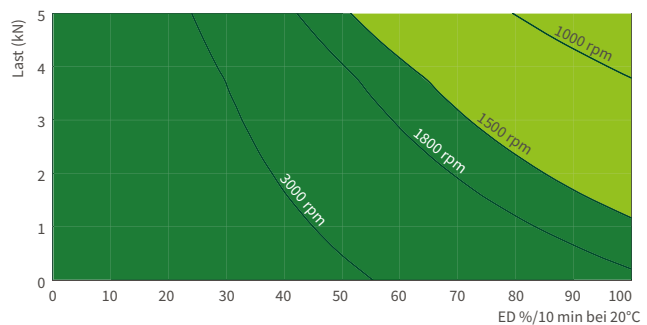
5 kN

Duty cycle thermal limit (S + R) for standard gearbox (grease lubrication)

Ratio „N“ (4:1)



Ratio „L“ (16:1)

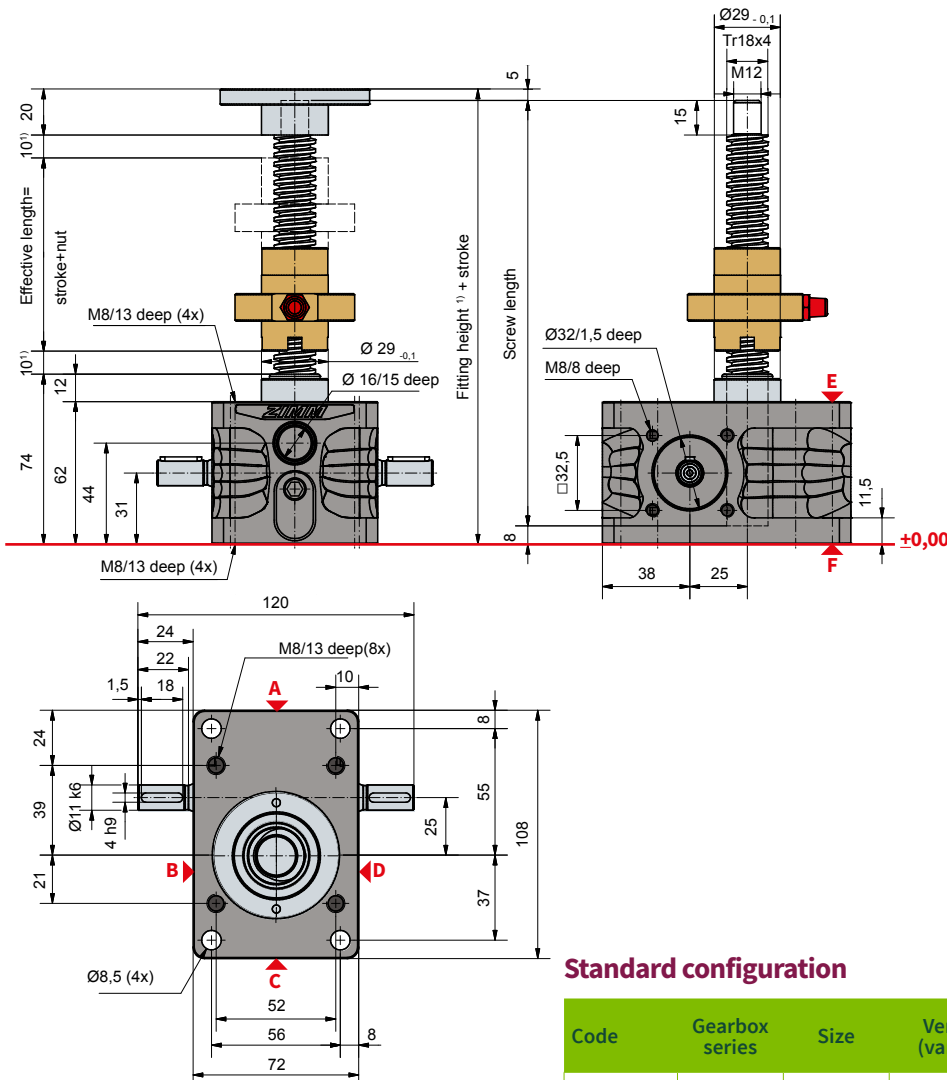


These maps are for orientation under standard industrial terms (ambient temperature, etc.) and proper maintenance (lubrication, etc.). They are based on the ZIMM standard trapezoidal thread Tr 18x4. With the use of a ball screw, the operation cycles can be many times longer.



5 kN

ZE-5-R | rotating screw



Standard configuration

Code	Gearbox series	Size	Version (variant)	Speed & ratio	Screw size	Stroke per drive shaft rotation
ZE-5-RN	ZE	5	R (rotating screw)	N (normal) 4:1	Tr 18x4	1,00 mm
ZE-5-RL				L (low-speed) 16:1		0,25 mm

Technical data series ZE-5-S / ZE-5-R

max. compressive / tensile force, static:	5 kN (0,5 t)
max. compressive / tensile force, dyn.:	see duty cycle curves
Input speed:	1500 rpm / max. 3000 rpm (depending on the load and duty cycle)
Screw size standard:	Tr 18x4 ²⁾
Gear ratio:	4:1 (N) / 16:1 (L)
Housing material:	aluminium, corrosion-resistant
Worm shaft:	steel, case-hardened, ground
Weight of screw jack body:	1,2 kg
Weight of screw/m:	1,58 kg
Gearbox lubrication:	synthetic fluid grease
Screw lubrication:	grease lubrication
Gearbox operating temperature:	max. 60°C, higher on request
Moment of inertia:	N: 0,132 kg cm ² / L: 0,091 kg cm ²
Input torque (at 1500 rpm):	max. 4,7 Nm (N) / max. 1,5 Nm (L)
Drive-through torque:	max. 39 Nm
Drive torque M _G (Nm):	F (kN) x 0,62 ^{3,4)} (N-normal) F (kN) x 0,21 ^{3,4)} (L-low-speed)
Breakaway torque:	Drive torque M _G x 1,5

Make a plan to keep a safe distance of at least 10 mm between gearbox and nut or between nut and threaded end!
Detailed length calculations of protection tubes and bellows are easy and convenient with our online configurator:

www.zimm.com

Important information:

- 1) If a bellows, spiral spring or double pitch is used; more fitting space is required
- 2) Tr 18x4 is standard, also available: double-pitch, INOX, left-handed, increased screw Tr 20x4 (only for the R version)
- 3) factor includes efficiency, ratio and 30% safety
- 4) for a 4 mm screw pitch
- 5) to calculate the length of our protective tube length SRO simply use our online configurator: www.zimm.com