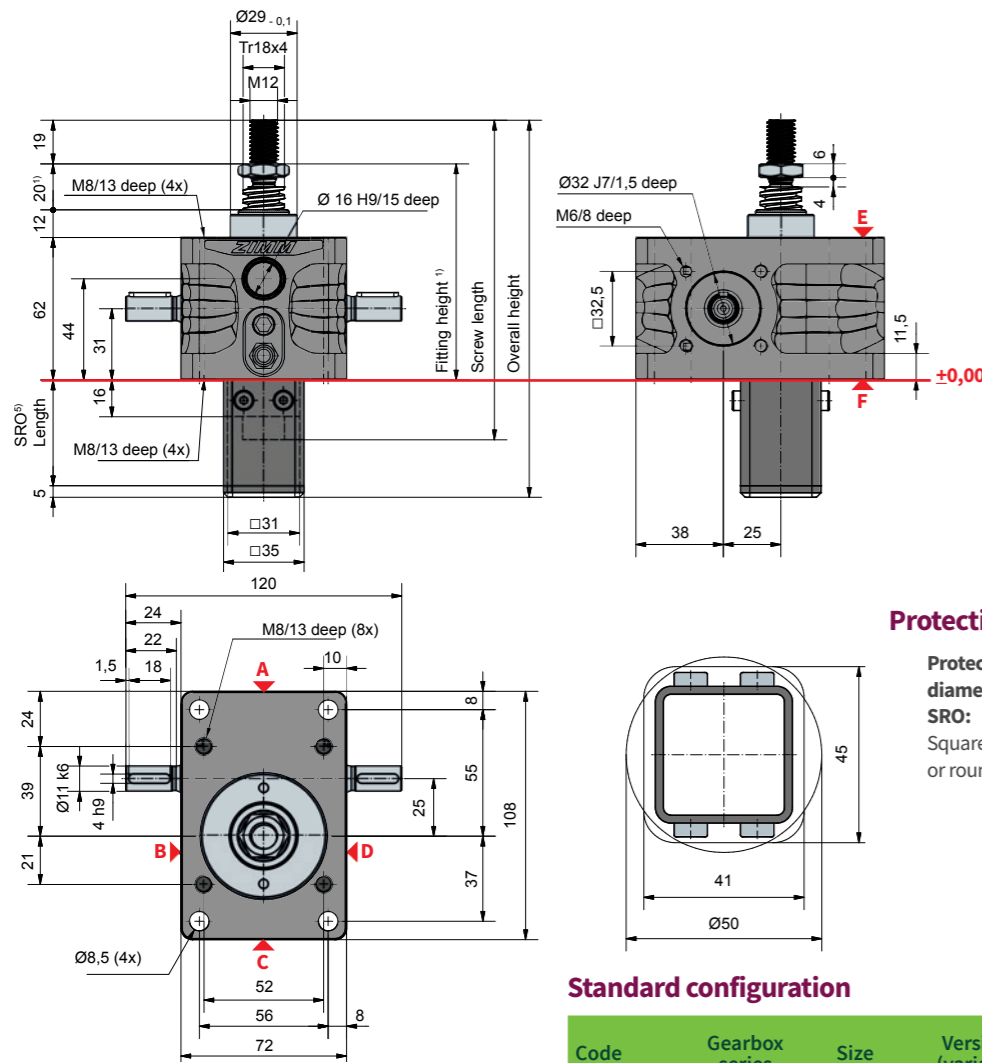


**5 kN**  
ZE-5-S | translating screw



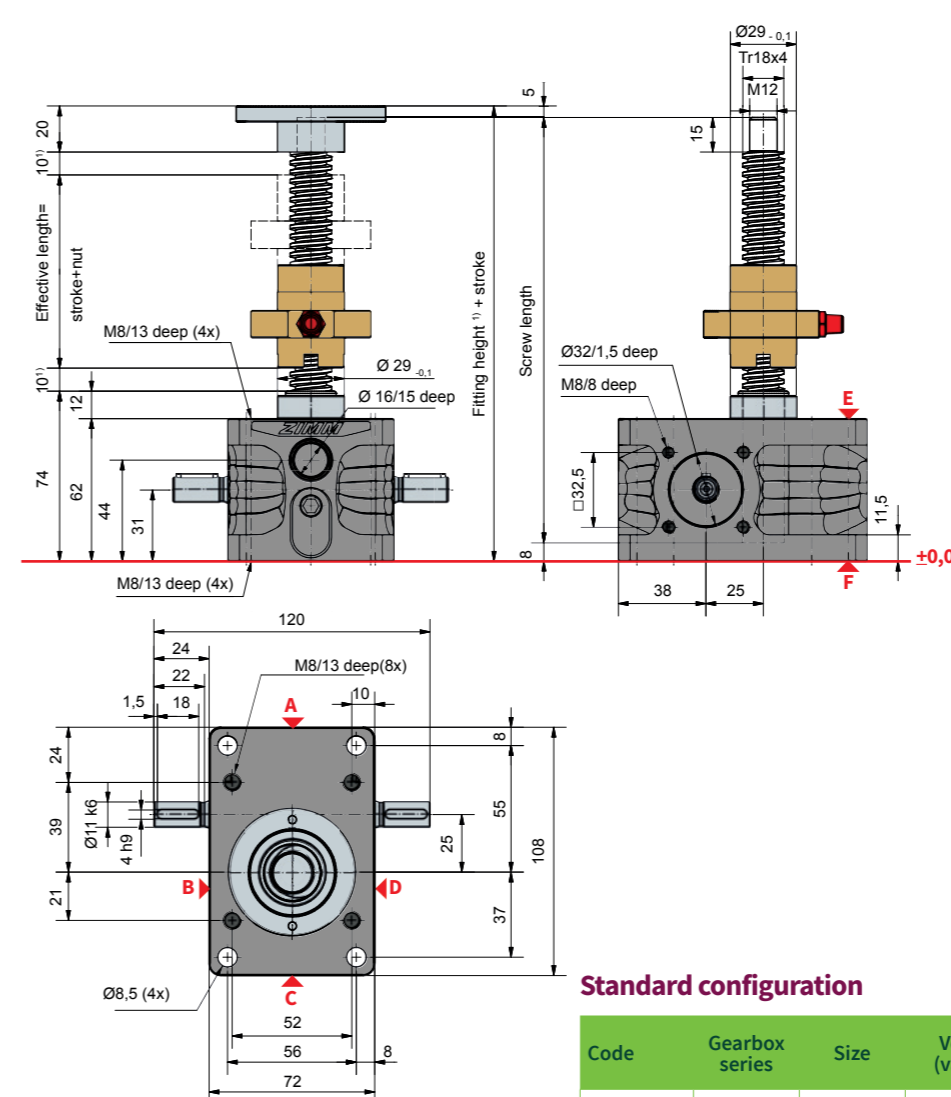
**Protective tube length SRO with Tr 18x4-screw**

Protective tube diameter SRO:	Configuration	Length
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**  
ZE-5-R | rotating screw



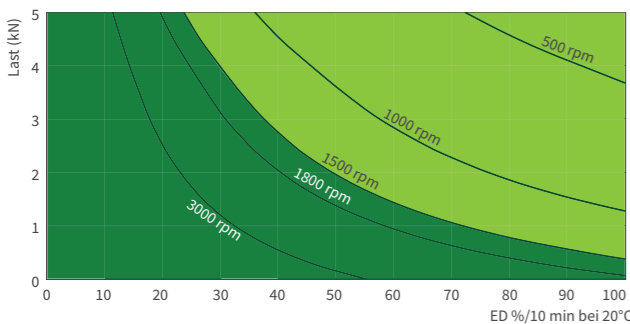
**Standard configuration**

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

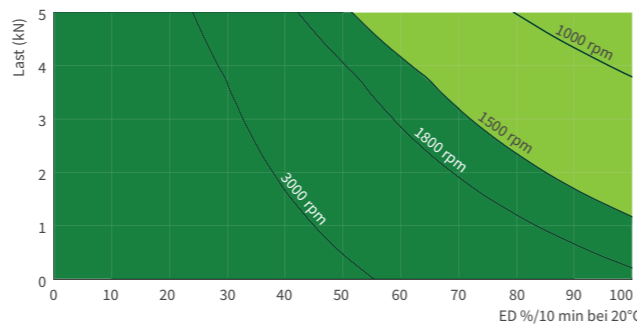
**5 kN**

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.

**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<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: 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<sup>2</sup> / L: 0,091 kg cm<sup>2</sup>  
 Input torque (at 1500 rpm): max. 4,7 Nm (N) / max. 1,5 Nm (L)  
 Drive-through torque: max. 39 Nm  
 Drive torque M<sub>G</sub> (Nm): F (kN) x 0,62<sup>3,4)</sup> (N-normal) / F (kN) x 0,21<sup>3,4)</sup> (L-low-speed)  
 Breakaway torque: Drive torque M<sub>G</sub> 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](http://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](http://www.zimm.com)