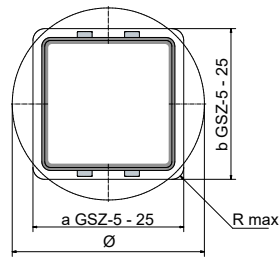
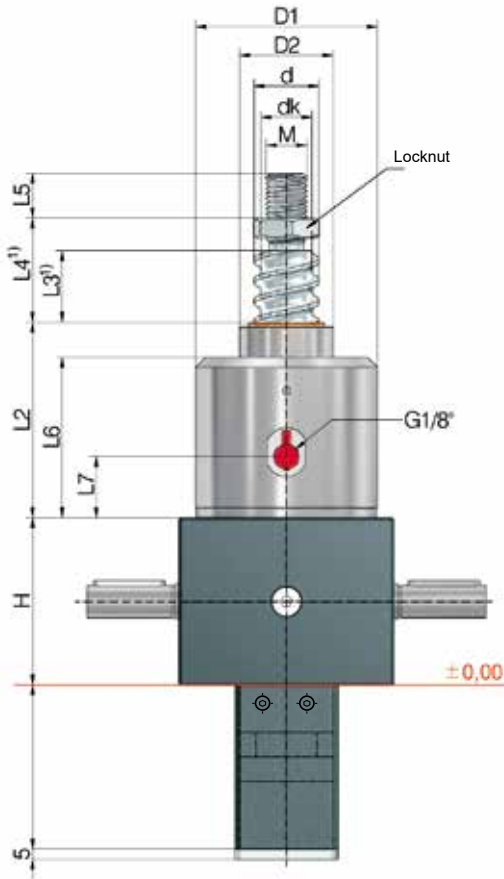


# GSZ 5 to 25 kN

## KGT-S | translating screw



### Opening for protective tube SRO

| GSZ-5                                     | GSZ-10 | GSZ-25   |
|---|--------|--|
| Protective tube square: a41 x b45, or Ø50 |        | Protective tube square: a60 x b60, R max. 8 or Ø70 |

VS rotation protection is recommended as standard.

### Protective tube length SRO

Detailed calculation of the fitting dimensions (bellows, screw, protective tube...) can be conveniently determined with our online configurator: [www.zimm.com](http://www.zimm.com)

| Screw jacks | KGT Screw | Stroke per drive revolution |      | KGT Load rating kN   |                          | Axial play max <sup>3)</sup> mm |
|-------------|-----------|-----------------------------|------|----------------------|--------------------------|---------------------------------|
|             | ØxP       | SN                          | SL   | dyn. C <sup>2)</sup> | stat. Co=C <sub>oa</sub> |                                 |
| GSZ-5       | 16x5      | 1,25                        | 0,31 | 10,1                 | 12                       | 0,06                            |
|             | 16x10     | 2,50                        | 0,63 | 11,1                 | 12,9                     | 0,06                            |
| GSZ-10      | 25x5      | 1,25                        | 0,31 | 13,7                 | 21,5                     | 0,06                            |
|             | 25x10     | 2,50                        | 0,63 | 25,2                 | 45,4                     | 0,06                            |
|             | 25x25     | 6,25                        | 1,56 | 20,7                 | 37,3                     | 0,06                            |
| GSZ-25      | 25x50     | 12,50                       | 3,13 | 19,2                 | 37,3                     | 0,06                            |
|             | 32x5      | 0,83                        | 0,21 | 24,8                 | 49,7                     | 0,06                            |
|             | 32x10     | 1,67                        | 0,42 | 30,8                 | 45,6                     | 0,06                            |
|             | 32x20     | 3,33                        | 0,83 | 32,9                 | 47,1                     | 0,06                            |
|             | 32x40     | 6,67                        | 1,67 | 18,3                 | 37,3                     | 0,06                            |

# Technical data

## GSZ-5-S

|   |  |
|---|--|
| max. compressive/tensile force, static: | 5 kN (500 kg)  |
| Input speed:                            | 1500 rpm / max. 3000 rpm                                 |
| Gearbox operating temperature:          | max. 60°C, higher on request                             |
| Moment of inertia:                      | N: 0,17 kg cm <sup>2</sup> / L: 0,093 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:                           | 4:1 (Normal) / 16:1 (Low)                                |
| Housing material:                       | aluminium, corrosion-resistant                           |
| Worm shaft:                             | steel, case-hardened, ground                             |
| Weight of screw jack body:              | 1,5 kg   |
| Gearbox / Screw lubrication:            | synthetic gear oil / grease lubrication                  |

## GSZ-25-S

|   |   |
|---|---|
| max. compressive/tensile force, static: | 25 kN (2,5 t)   |
| Input speed:                            | 1500 rpm / max. 3000 rpm                                  |
| Gearbox operating temperature:          | max. 60°C, higher on request                              |
| Moment of inertia:                      | N: 1,449 kg cm <sup>2</sup> / L: 0,589 kg cm <sup>2</sup> |
| Input torque (at 1500 rpm):             | max. 18 Nm (N) / max. 10 Nm (L)                           |
| Drive-through torque:                   | max. 108 Nm   |
| Drive torque:                           | 6:1 (Normal) / 24:1 (Low)                                 |
| Housing material:                       | aluminium, corrosion-resistant                            |
| Worm shaft:                             | steel, case-hardened, ground                              |
| Weight of screw jack body:              | 3,8 kg  |
| Gearbox / Screw lubrication:            | synthetic gear oil / grease lubrication                   |

## GSZ-10-S

|   |   |
|---|---|
| max. compressive/tensile force, static: | 10 kN (1 t)   |
| Input speed:                            | 1500 rpm / max. 3000 rpm                                  |
| 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:                           | 4:1 (Normal) / 16:1 (Low)                                 |
| Housing material:                       | aluminium, corrosion-resistant                            |
| Worm shaft:                             | steel, case-hardened, ground                              |
| Weight of screw jack body:              | 2,8 kg  |
| Gearbox / Screw lubrication:            | synthetic gear oil / grease lubrication                   |

### Ordering example: GSZ-25-SN-KGT 32x10, C = 30,8 kN



Because of the lack of friction, a holding brake is necessary: a motor brake or a spring pressure brake is required.

**Screw:** 1.1213 (Cf53), induction hardened and polished.

| Screw jacks | KGT Screw<br>ØxP | Dimensions<br>mm |      |      |    |    |    |                  |                  |    |    |    |     |
|-------------|------------------|------------------|------|------|----|----|----|------------------|------------------|----|----|----|-----|
|             |                  | H                | d    | dk   | D1 | D2 | L2 | L3 <sup>1)</sup> | L4 <sup>1)</sup> | L5 | L6 | L7 | M   |
| GSZ-5       | 16x5             | 62               | 15,5 | 12,9 | 59 | 29 | 66 | 15               | 25               | 19 | 54 | 23 | M12 |
|             | 16x10            | 62               | 15,5 | 12,9 | 59 | 29 | 66 | 25               | 35               | 19 | 54 | 23 | M12 |
| GSZ-10      | 25x5             | 74               | 24,5 | 21,9 | 69 | 39 | 85 | 15               | 27               | 20 | 69 | 21 | M14 |
|             | 25x10            | 74               | 24,5 | 21,9 | 69 | 39 | 85 | 25               | 37               | 20 | 69 | 21 | M14 |
|             | 25x25            | 74               | 24,5 | 21,9 | 69 | 39 | 85 | 60               | 72               | 20 | 69 | 21 | M14 |
|             | 25x50            | 74               | 24,5 | 21,9 | 69 | 39 | 85 | 125              | 137              | 20 | 69 | 21 | M14 |
| GSZ-25      | 32x5             | 82               | 31,5 | 28,9 | 89 | 46 | 99 | 15               | 31               | 22 | 82 | 33 | M20 |
|             | 32x10            | 82               | 31,5 | 26,8 | 89 | 46 | 99 | 20               | 36               | 22 | 82 | 33 | M20 |
|             | 32x20            | 82               | 31,5 | 26,8 | 89 | 46 | 99 | 35               | 51               | 22 | 82 | 33 | M20 |
|             | 32x40            | 82               | 31,5 | 28,9 | 89 | 46 | 99 | 70               | 86               | 22 | 82 | 33 | M20 |

1) Depending on the control system and drive, the dimension L3 and L4 can be reduced at your own discretion.  
An extension may be required if a bellows or spiral spring is fitted.

2) Dynamic load rating to DIN ISO 3408

3) Reduced play 0,02 mm available on request