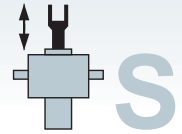
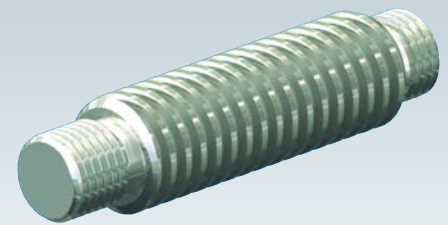


Abbreviations:

| | | | |
|-----|---------------------|-----|---------------------|
| Tr | Trapezoidal screw | KGT | Ball screw |
| AS | Escape protection | KAR | Pivot bearing plate |
| BF | Fixing flange | KGK | Rod end |
| ES | Limit switch | SLK | Pivot bearing end |
| FBR | Bellows fixing ring | ZD | Compressed length |
| GK | Forked end | | |



Length calculation – screw, translating version S

(The length calculation is identical for Z and GSZ)

| GSZ-2 to Z-150: | | GSZ-2 | Z-5 | Z-10 | Z-25 | Z-35 | Z-50 | Z-50/Tr50 | Z-100 | Z-150 |
|--|--------|-------|-----------|-----------|-----------|-------|-----------|-----------|-------------------------|-------------------------|
| Tr basic length | Tr | 118 | 139 | 161 | 180 | 219 | 240 | 263 | 338 | 342 |
| KGT basic length | KGT | - | 16x05 203 | 25x05 240 | 32x05 272 | - | 40x05 324 | - | 50x10 ³⁾ 420 | 63x10 ⁵⁾ 432 |
| | | - | 16x10 224 | 25x10 260 | 32x10 282 | - | 40x10 324 | - | 50x20 ³⁾ 460 | 63x20 ⁶⁾ 506 |
| | | - | - | 25x25 330 | 32x20 312 | - | 40x20 354 | - | 50x10 ⁴⁾ 456 | 63x10 ⁷⁾ 460 |
| | | - | - | 25x50 460 | 32x40 382 | - | 40x40 414 | - | 50x20 ⁴⁾ 496 | 63x20 ⁷⁾ 500 |
| | | - | - | - | - | - | - | - | 50x40 ⁴⁾ 576 | 63x40 ⁷⁾ 580 |
| | | - | - | - | - | - | - | - | - | 63x60 ⁷⁾ 660 |
| Tr basic length with safety nut | Tr | - | - | 219 | 239 | 280 | 305 | - | 411 | 423 |
| Escape/rotation protection AS/VS | Tr/KGT | 15 | 15 | 20 | 20 | 30 | 30 | 30 | 30 | 30 |
| Limit switch ES ²⁾ | Tr | 43 | 43 | 45 | 45 | 59 | 55 | 55 | 45 | 45 |
| ES ²⁾ and pivot bearing plate KAR | Tr | 65 | 64 | 65 | 69 | 85 | 80 | 80 | 90 | 95 |
| Limit switch ES ²⁾ | KGT | - | 16x05 38 | 25x05 40 | 32x05 40 | - | 40x05 50 | - | 50x10 45 | 63x10 45 |
| | | - | 16x10 28 | 25x10 30 | 32x10 35 | - | 40x10 50 | - | 50x20 30 | 63x20 30 |
| | | - | - | 25x25 20 | 32x20 20 | - | 40x20 35 | - | 50x40 30 | 63x40 30 |
| | | - | - | 25x50 20 | 32x40 20 | - | 40x40 30 | - | - | 63x60 30 |
| ES ²⁾ and pivot bearing plate KAR | KGT | - | 16x05 59 | 25x05 60 | 32x05 64 | - | 40x05 75 | - | 50x10 90 | 63x10 95 |
| | | - | 16x10 49 | 25x10 50 | 32x10 59 | - | 40x10 75 | - | 50x20 70 | 63x20 75 |
| | | - | - | 25x25 20 | 32x20 44 | - | 40x20 60 | - | 50x40 30 | 63x40 35 |
| | | - | - | 25x50 20 | 32x40 20 | - | 40x40 30 | - | - | 63x60 30 |
| Bellows with bellows fixing ring (GK/KGK) ¹⁾ | ZD-1 | ZD-2 | ZD+1 | ZD+5 | ZD+10 | ZD+10 | ZD+8 | ZD-2 | ZD-2 | |
| Bellows without bellows fixing ring (BF/SLK) ¹⁾ | ZD-18 | ZD-22 | ZD-24 | ZD-26 | ZD-36 | ZD-36 | ZD-40 | ZD-50 | ZD-22 | |
| Bellows and KAR with FBR (GK/KGK) ¹⁾ | ZD+32 | ZD+31 | ZD+28 | ZD+46 | ZD+63 | ZD+63 | ZD+81 | ZD+60 | ZD+68 | |
| Bellows and KAR without FBR (BF/SLK) ¹⁾ | ZD+15 | ZD+11 | ZD+3 | ZD+15 | ZD+17 | ZD+17 | ZD+33 | ZD+12 | ZD+48 | |

| Z-250 to Z-1000: | | Z-250 | Z-350 | Z-500 | Z-750 | Z-1000 |
|--|--------|-----------|------------|-------------|-------------|-------------|
| Tr basic length | Tr | 370 | 424 | 552 | 619 | 643 |
| KGT basic length | KGT | 80x10 561 | 100x20 663 | 125x25 823 | 140x25 976 | 160x25 1024 |
| | | 80x20 601 | 100x40 743 | 125x40 883 | 140x40 1036 | 160x40 1084 |
| | | 80x40 681 | 100x60 823 | 125x60 963 | 140x60 1116 | 160x60 1164 |
| | | 80x60 761 | 100x80 943 | 125x80 1043 | 140x80 1196 | 160x80 1244 |
| Tr basic length with safety nut | | 507 | - | - | - | - |
| Escape/rotation protection AS/VS | Tr/KGT | 30 | 35 | 40 | 40 | 40 |
| Limit switch ES ²⁾ | Tr | 43 | 46 | 40 | 48 | 48 |
| Limit switch ES ²⁾ | KGT | 80x10 43 | 100x20 35 | 125x25 40 | 140x25 40 | 160x25 40 |
| | | 80x20 30 | 100x40 35 | 125x40 40 | 140x40 40 | 160x40 40 |
| | | 80x40 30 | 100x60 35 | 125x60 40 | 140x60 40 | 160x60 40 |
| | | 80x60 30 | 100x80 35 | 125x80 40 | 140x80 40 | 160x80 40 |
| Bellows with bellows fixing ring (GK/KGK) ¹⁾ | | ZD-2 | ZD-2 | ZD-22 | ZD-22 | ZD-22 |
| Bellows without bellows fixing ring (BF/SLK) ¹⁾ | | ZD-22 | ZD-22 | ZD-42 | ZD-42 | ZD-42 |

Safety distances are already included in the basic lengths!

(Tr screws: 10 mm up to Z-50, 20 mm for Z-100 to Z-500, 40 mm for Z-750 and Z-1000)

- The value will be added to or subtracted from the ZD dimension of the bellows depending on the sign and the result then added to the screw length. Applicable only to Tr single-pitch screws, not to double-pitch and KGT screws.
- Limit switches ES are always used in combination with rotation protection VS (VS is included in the extension).
- KGT 50: L6=82
- KGT 50: L6=118
- KGT 63: L6=90
- KGT 63: L6=124
- KGT 63: L6=118

Screw extension for spiral spring cover SF:
Since the extension for spiral spring covers varies according to the fitting, this variant must be determined from a drawing. We would be pleased to prepare this drawing for you.