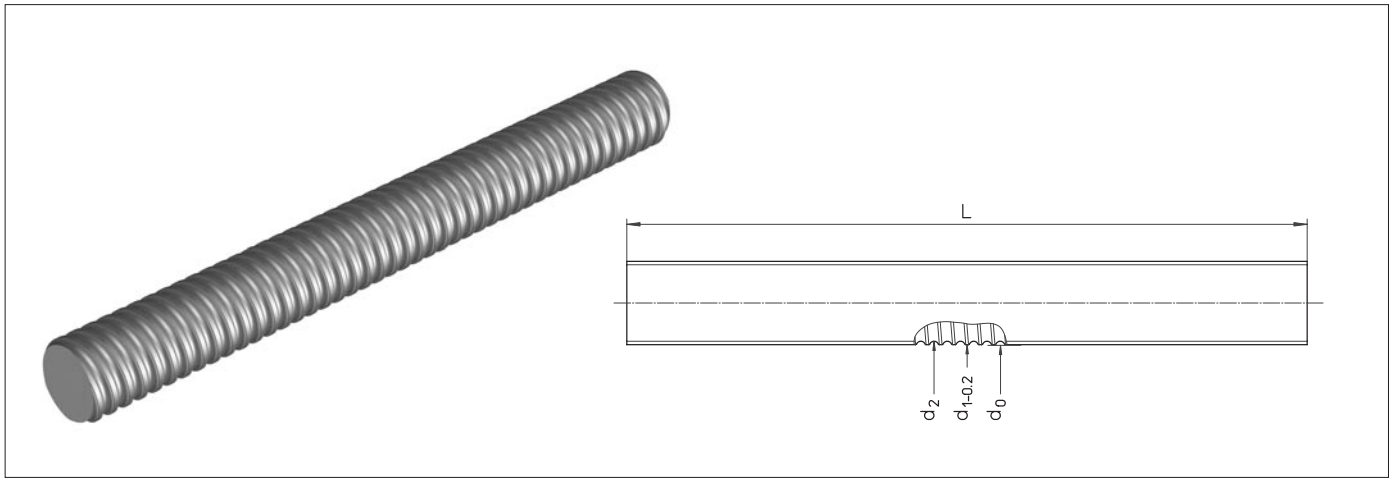
# Ball screw drives
## Summary of ball screws KGS






| Type<br>Diameter [mm]<br>Lead [mm]<br>Right hand thread | Accuracy class [µm/300mm] | Dimensions [mm] | | | | Weight $m'_{KGS}$ [kg/m] | Planar moment of inertia Iy [$10^4$ mm$^4$] | Moment of resistance[2] [$10^3$ mm$^3$] | Mass moment of inertia [kg m$^2$/m] |
|---|---|---|---|---|---|---|---|---|---|
| | | $d_0$ | $d_1$ | $d_2$ | $L_{max.}$[1] | | | | |
| KGS-1205 | 50 | 12 | 11.5 | 10.1 | 1300 | 0.75 | 0.051 | 0.101 | $1.13 \cdot 10^{-5}$ |
| KGS-1605 | 50 | 16 | 15.5 | 12.9 | 5600 | 1.26 | 0.136 | 0.211 | $3.21 \cdot 10^{-5}$ |
| KGS-1610 | 50 | 16 | 15.4 | 13.0 | 5600 | 1.26 | 0.140 | 0.216 | $3.21 \cdot 10^{-5}$ |
| KGS-2005 | 50 | 20 | 19.5 | 16.9 | 5600 | 2.04 | 0.400 | 0.474 | $8.46 \cdot 10^{-5}$ |
| KGS-2020 | 50 | 20 | 19.5 | 16.9 | 5600 | 2.04 | 0.400 | 0.474 | $8.46 \cdot 10^{-5}$ |
| KGS-2050 | 50 | 20 | 19.1 | 16.5 | 5600 | 2.04 | 0.364 | 0.441 | $8.46 \cdot 10^{-5}$ |
| KGS-2505 | 50 | 25 | 24.5 | 21.9 | 5600 | 3.33 | 1.129 | 1.031 | $2.25 \cdot 10^{-4}$ |
| KGS-2510 | 50 | 25 | 24.5 | 21.9 | 5600 | 3.33 | 1.129 | 1.031 | $2.25 \cdot 10^{-4}$ |
| KGS-2520 | 50 | 25 | 24.6 | 22.0 | 5600 | 3.33 | 1.150 | 1.045 | $2.25 \cdot 10^{-4}$ |
| KGS-2525 | 50 | 25 | 24.5 | 22.0 | 5600 | 3.33 | 1.150 | 1.045 | $2.25 \cdot 10^{-4}$ |
| KGS-2550 | 50 | 25 | 24.1 | 21.5 | 5600 | 3.33 | 1.049 | 0.976 | $2.25 \cdot 10^{-4}$ |
| KGS-3205 | 50 | 32 | 31.5 | 28.9 | 5600 | 5.63 | 3.424 | 2.370 | $6.43 \cdot 10^{-4}$ |
| KGS-3210 | 50 | 32 | 32.7 | 27.3 | 5600 | 5.63 | 2.727 | 1.998 | $6.43 \cdot 10^{-4}$ |
| KGS-3220 | 50 | 32 | 31.7 | 27.9 | 5600 | 5.63 | 2.974 | 2.132 | $6.43 \cdot 10^{-4}$ |
| KGS-3240 | 50 | 32 | 30.9 | 28.3 | 5600 | 5.63 | 3.149 | 2.225 | $6.43 \cdot 10^{-4}$ |
| KGS-4005 | 50 | 40 | 39.5 | 36.9 | 5600 | 9.01 | 9.101 | 4.933 | $1.65 \cdot 10^{-3}$ |
| KGS-4010 | 50 | 40 | 39.5 | 34.1 | 5600 | 8.35 | 6.737 | 3.893 | $1.41 \cdot 10^{-3}$ |
| KGS-4020 | 50 | 40 | 39.7 | 35.9 | 5600 | 9.01 | 8.154 | 4.542 | $1.65 \cdot 10^{-3}$ |
| KGS-4040 | 50 | 40 | 38.9 | 36.3 | 5600 | 9.01 | 8.523 | 4.696 | $1.65 \cdot 10^{-3}$ |
| KGS-5010 | 50 | 50 | 49.5 | 44.1 | 5600 | 13.50 | 18.566 | 8.420 | $3.70 \cdot 10^{-3}$ |
| KGS-5020 | 50 | 50 | 49.5 | 44.1 | 5600 | 13.50 | 18.566 | 8.420 | $3.70 \cdot 10^{-3}$ |
| KGS-6310 | 50 | 63 | 62.5 | 57.1 | 5600 | 22.03 | 52.181 | 18.280 | $9.84 \cdot 10^{-3}$ |
| Left hand thread | | | | | | | | | |
| KGS-2005 LH | 50 | 20 | 19.5 | 16.9 | 5600 | 2.04 | 0.400 | 0.474 | $8.46 \cdot 10^{-5}$ |

[1] Delivery length 6000 mm, hardened length at least 5600 mm, both ends soft annealed.
[2] The polar moment of resistance is double the moment of resistance.