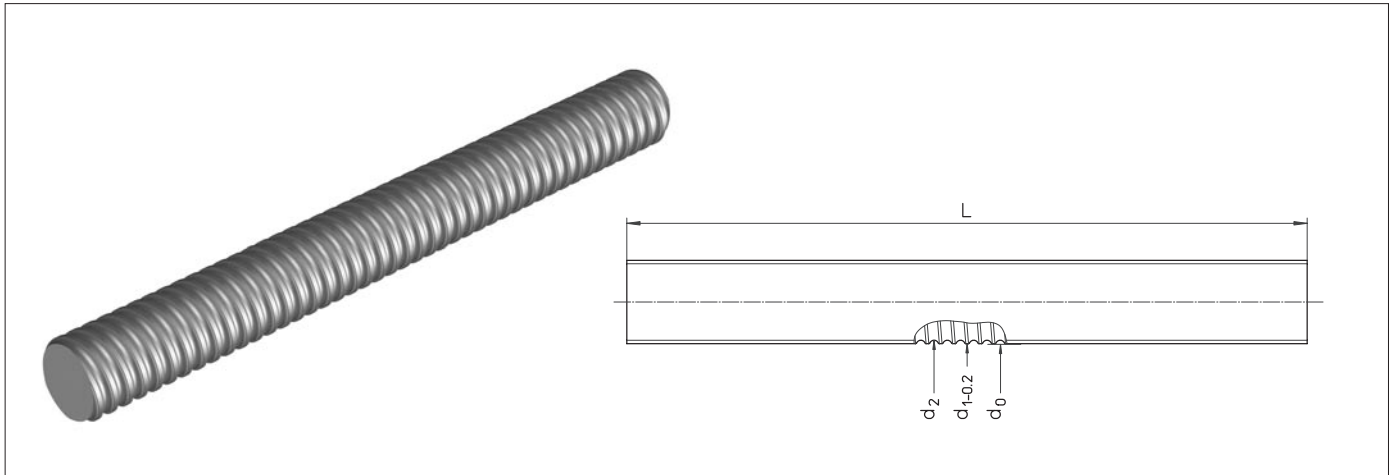


# Ball screw drives

## Summary of ball screws KGS



Type Diameter [mm] Lead [mm] Right hand thread	Accuracy class [ $\mu\text{m}/300\text{mm}$ ]	Dimensions [mm]				Weight $m'_{\text{KGS}}$ [kg/m]	Planar moment of inertia $I_y$ [ $10^4 \text{ mm}^4$ ]	Moment of resistance <sup>2)</sup> [ $10^3 \text{ mm}^3$ ]	Mass moment of inertia [ $\text{kg m}^2/\text{m}$ ]
		$d_0$	$d_1$	$d_2$	$L_{\text{max.}}^{1)}$				
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	$8.46 \cdot 10^{-5}$

<sup>1)</sup> Delivery length 6000 mm, hardened length at least 5600 mm, both ends soft annealed.

<sup>2)</sup> The polar moment of resistance is double the moment of resistance.