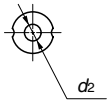
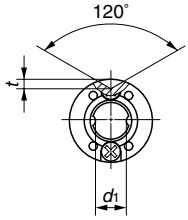
IKO Linear Ball Spline G: Standard type

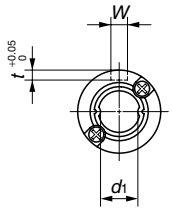
LSAG, LSAGT
LSAGL, LSAGLT



Bore dia. of hollow shaft of LSAG(L)T

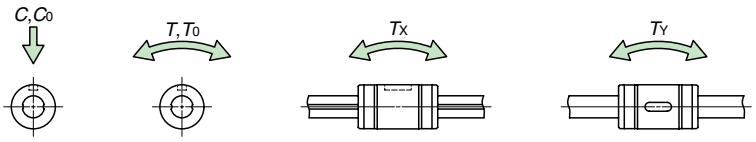


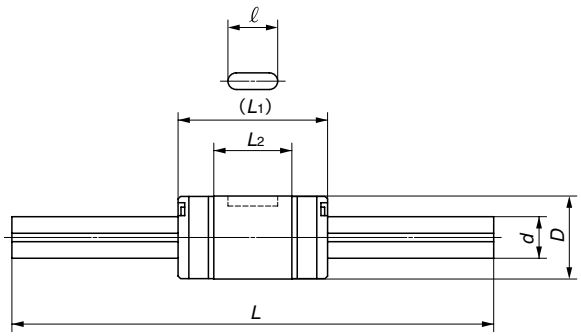
LSAG 2
LSAG 3
LSAG(T) 4



Model number	Interchangeable	Mass (Ref.) g		Dimensions and tolerances of external cylinder mm									
		External cylinder	Spline shaft (per 100 mm)	D	Tolerance	L_1	L_2	W	Tolerance	t	ℓ	d	Tolerance
LSAG 2(1)		1.0	2.3	6	0 −0.008	8.5	4.7	—	—	0.7	—	2	0 −0.010
LSAG 3(1)		2.1	5.4	7	0 −0.009	10	5.9	—	—	0.8	—	3	0 −0.010
LSAG 4(1)		2.5	9.6	8	0 −0.009	12	7.9	—	—	1	—	4	0 −0.012
LSAGT 4(1)			8.2										
LSAG 5	☆	4.8	14.9	10	0 −0.009	18	9.4	2	+0.014 0	1.2	6	5	0 −0.012
LSAGT 5	☆		12.4										
LSAGL 5	☆	7.9	14.9			26	16.9						
LSAGLT 5	☆		12.4										
LSAG 6	☆	8.9	19	12	0 −0.011	21	12.4	2	+0.014 0	1.2	8	6	0 −0.012
LSAGT 6	☆		16.5										
LSAGL 6	☆	14.5	19			30	21.4						
LSAGLT 6	☆		16.5										
LSAG 8	☆	15.9	39	15	0 −0.011	25	14.6	2.5	+0.014 0	1.5	8.5	8	0 −0.015
LSAGT 8	☆		33										
LSAGL 8	☆	26.5	39			37	26.6						
LSAGLT 8	☆		33										

Note (1): No seals are attached.
(2): Dimension d_1 indicates the maximum diameter when machining is done at the shaft ends.
(3): This length is the standard length. Spline shafts in other length are also available. Simply indicate the necessary length of spline shaft in mm in the identification number.
(4): The directions of basic dynamic load rating (C), basic static load rating (C_0), dynamic torque rating (T), and static torque/moment rating (T_0, T_X, T_Y) are shown in the sketches below. The upper values in the T_X and T_Y columns apply to one external cylinder, and the lower values apply to two external cylinders in close contact.
Remark: The mark ☆ indicates that interchangeable specification products are available.





Dimensions and tolerances of spline shaft mm				Basic dynamic load rating(4)	Basic static load rating(4)	Dynamic torque rating(4)	Static torque rating(4)	Static moment rating(4)		Model number
d_1(2)	d_2	L(3)	Maximum length	C N	C_0 N	T N-m	T_0 N-m	T_X N-m	T_Y N-m	
1.2	—	50 100	100	222	237	0.28	0.30	0.22 1.6	0.39 2.9	**LSAG 2(1)**
2.2	—	100 150	150	251	285	0.45	0.51	0.31 1.9	0.53 3.3	**LSAG 3(1)**
3.2	—	100 150	200	303	380	0.70	0.87	0.52 2.9	0.90 5.0	**LSAG 4(1)**
	1.5		150							**LSAGT 4(1)**
4.2	—	100 150	200	587	641	1.8	1.9	1.0 7.9	1.8 13.6	**LSAG 5**
	2									**LSAGT 5**
	—			879	1 180	2.6	3.5	3.2 19.3	5.5 33.4	**LSAGL 5**
	2									**LSAGLT 5**
5.2	—	150 200	300	711	855	2.5	3.0	1.7 11.7	3.0 20.3	**LSAG 6**
	2									**LSAGT 6**
	—			1 030	1 500	3.6	5.2	5.0 27.6	8.6 47.8	**LSAGL 6**
	2									**LSAGLT 6**
7	—	150 200 250	500	1 190	1 330	5.5	6.2	3.3 22.0	5.6 38.1	**LSAG 8**
	3		400							**LSAGT 8**
	—		500	1 800	2 470	8.4	11.5	10.3 56.3	17.8 97.5	**LSAGL 8**
	3		400							**LSAGLT 8**

Example of identification number of assembled set

LSAG | 5 | C2 | R150 | T1 | H | S1 | /OH

- LSAG — Model code: LSAG, LSAGT, LSAGL, LSAGLT
- 5 — Size of rolling guide
- C2 — Number of external cylinders (two cylinders)
- R150 — Overall length of spline shaft (150mm)
- T1 — Preload amount: Clearance: T_0; Standard: No symbol; Light preload: T_1
- H — Accuracy class: Ordinary: No symbol; High: H; Precision: P
- S1 — Interchangeable code: Select group 1 : S1; Select group 2 : S2
- /OH — Special specification: With oil hole

1N = 0.102kgf = 0.2248lbs.
1mm = 0.03937inch