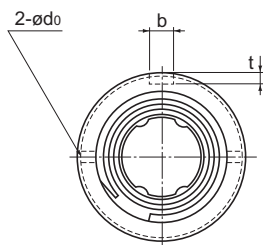
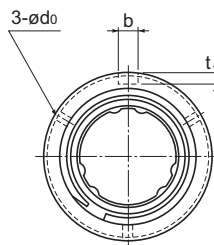


Model LT



Models LT4 to 13



Models LT16 to 100

Model No.	Spline nut dimensions								
	Outer diameter		Length		b H8	Keyway dimensions		r	Lubrication hole d ₀
	D	Tolerance	L	Tolerance		t +0.1 0	ℓ ₀		
LT 4 ¹	10	0 -0.009	16	0 -0.2	2	1.2	6	0.5	—
LT 5 ¹	12	0 -0.011	20		2.5	1.2	8	0.5	—
LT 6	14		25		2.5	1.2	10.5	0.5	1
LT 8	16		25		2.5	1.2	10.5	0.5	1.5
LT 10	21	0 -0.013	33		3	1.5	13	0.5	1.5
LT 13	24		36		3	1.5	15	0.5	1.5
○ LT 16	31		50	0 -0.3	3.5	2	17.5	0.5	2
○ LT 20	35	0 -0.016	63		4	2.5	29	0.5	2
○ LT 25	42		71		4	2.5	36	0.5	3
○ LT 30	47		80		4	2.5	42	0.5	3
○ LT 40	64	0	100		6	3.5	52	0.5	4
○ LT 50	80	-0.019	125		8	4	58	1	4
○ LT 60	90	0	140	0 -0.4	12	5	67	1	5
○ LT 80	120	-0.022	160		16	6	76	2	5
○ LT 100	150	0 -0.025	185		20	7	110	2.5	5

○: Indicates model numbers for which high temperature types are available (with metal retainer; service temperature: up to 100°C).

(Example) LT20 A CL+500L H

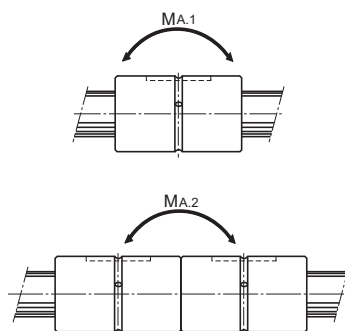
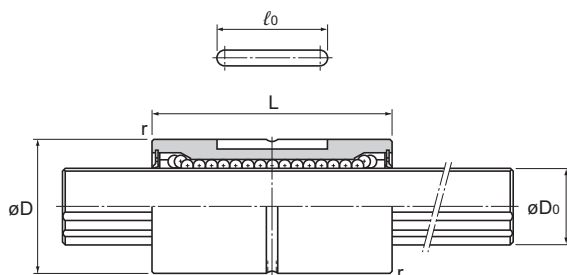
High temperature symbol

Model number coding

2	LT30	UU	CL	+500L	H	K
Model No.		Symbol for clearance in the rotational direction ²		Accuracy symbol ³		Symbol for spline shaft ⁴
Number of spline nuts on one shaft (no symbol for one nut)		Contamination protection accessory symbol ¹		Overall spline shaft length ⁵ (in mm)		

¹ See **A3-128**. ² See **A3-32**. ³ See **A3-37**. ⁴ See **A3-95**. ⁵ See **A3-123**.

Medium-Torque Ball Spline



Unit: mm

	Spline shaft diameter D_0 h7	Rows of balls	Basic torque rating		Basic load rating		Static permissible moment		Mass	
			C_T N·m	C_{0T} N·m	C kN	C_0 kN	$M_{A.1}^2$ N·m	$M_{A.2}^3$ N·m	Spline nut g	Spline shaft kg/m
	4	4	0.59	0.78	0.44	0.61	0.88	6.4	5.2	0.1
	5	4	0.88	1.37	0.66	0.88	1.5	11.6	9.1	0.15
	6	4	0.98	1.96	1.18	2.16	4.9	36.3	17	0.23
	8	4	1.96	2.94	1.47	2.55	5.9	44.1	18	0.4
	10	4	3.92	7.84	2.84	4.9	15.7	98	50	0.62
	13	4	5.88	10.8	3.53	5.78	19.6	138	55	1.1
	16	6	31.4	34.3	7.06	12.6	67.6	393	165	1.6
	20	6	56.9	55.9	10.2	17.8	118	700	225	2.5
	25	6	105	103	15.2	25.8	210	1,140	335	3.9
	30	6	171	148	20.5	34	290	1,710	375	5.6
	40	6	419	377	37.8	60.5	687	3,760	1,000	9.9
	50	6	842	769	60.9	94.5	1,340	7,350	1,950	15.5
	60	6	1,220	1,040	73.5	111.7	1,600	9,990	2,500	22.3
	80	6	2,310	1,920	104.9	154.8	2,510	16,000	4,680	39.6
	100	6	3,730	3,010	136.2	195	3,400	24,000	9,550	61.8

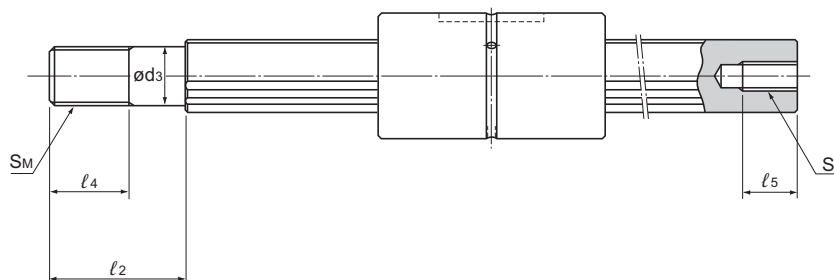
¹ LT4 and 5 do not have a retainer. Do not remove the shaft from the spline nut. (It will cause balls to fall out.)

² $M_{A.1}$ indicates the permissible moment value in the axial direction when a single spline nut is used, as shown in the figure above.

³ $M_{A.2}$ indicates the permissible moment value in the axial direction when two spline nuts in close contact with each other are used, as shown in the figure above.

Note: For details on the maximum lengths of ball spline shafts by accuracy, please see **A3-123**.

Model LT with Recommended Shaft End Shape



Unit: mm

Model No.	d_3	Tolerance	ℓ_2	S_M	ℓ_4	$S \times \ell_5$
LT 6	5	0 -0.012	12	M5×0.8	7	M2.5×4
LT 8	6		14	M6×1	8	M3×5
LT 10	8	0 -0.015	18	M8×1	11	M4×6
LT 13	10		23	M10×1.25	14	M5×8
LT 16	14	0 -0.018	30	M14×1.5	18	M6×10
LT 20	16		38	M16×1.5	22	M8×15
LT 25	22	0 -0.021	50	M22×1.5	28	M10×18
LT 30	27		60	M27×2	34	M14×25
LT 40	36	0 -0.025	80	M36×3	45	M18×30
LT 50	45		100	M45×4.5	58	M22×40