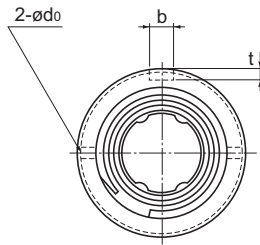
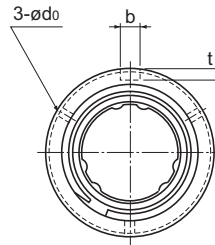


# Model LT



Models LT4 to 13



Models LT16 to 100

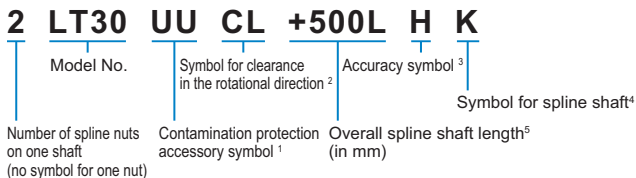
Model No.	Spline nut dimensions								
	Outer diameter		Length		b H8	Keyway dimensions		r	Lubrication hole d <sub>o</sub>
	D	Tolerance	L	Tolerance		t +0.1 0	ℓ <sub>o</sub>		
LT 4 <sup>1</sup>	10	<sup>0</sup> -0.009	16	0 -0.2	2	1.2	6	0.5	—
LT 5 <sup>1</sup>	12	0 -0.011	20		2.5	1.2	8	0.5	—
LT 6	14		25		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	0 -0.016	50	0 -0.3	3.5	2	17.5	0.5	2
○ LT 20	35		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	0 -0.4	6	3.5	52	0.5	4
○ LT 50	80	-0.019	125		8	4	58	1	4
○ LT 60	90	0	140		12	5	67	1	5
○ LT 80	120	-0.022	160	0	16	6	76	2	5
○ LT 100	150	<sup>0</sup> -0.025	185	-0.4	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

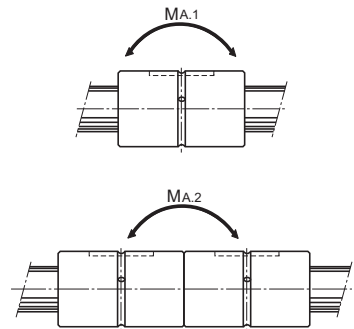
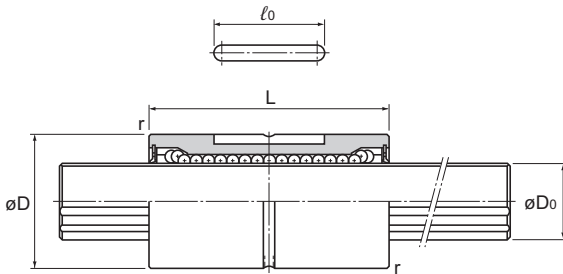
└ High temperature symbol

## Model number coding



<sup>1</sup> See **A3-128**. <sup>2</sup> See **A3-32**. <sup>3</sup> See **A3-37**. <sup>4</sup> See **A3-95**. <sup>5</sup> 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	$M_{A1}^2$ N·m	$M_{A2}^3$ 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

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

<sup>2</sup>  $M_{A1}$  indicates the permissible moment value in the axial direction when a single spline nut is used, as shown in the figure above.

<sup>3</sup>  $M_{A2}$  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**.