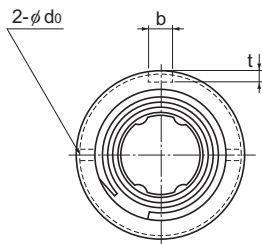
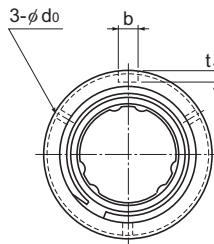


# Model LT



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>			
Note) LT 4	10	<sup>0</sup> -0.009	16	0 -0.2	2	1.2	6	0.5	—	
Note) LT 5	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		33		3	1.5	13	0.5	1.5	
LT 13	24	0 -0.013	36		3	1.5	15	0.5	1.5	
○ LT 16	31		50		3.5	2	17.5	0.5	2	
○ LT 20	35	0 -0.016	63		0 -0.3	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		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	185			20	7	110	2.5	5
		-0.025								

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

○: 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  
(<sup>(2)</sup>)

Accuracy symbol  
(<sup>(3)</sup>)

Symbol for spline shaft (<sup>(4)</sup>)

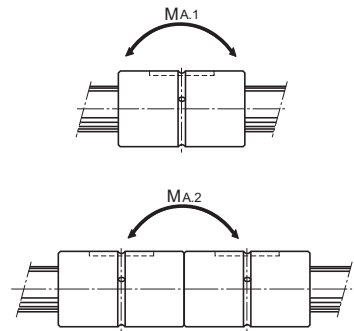
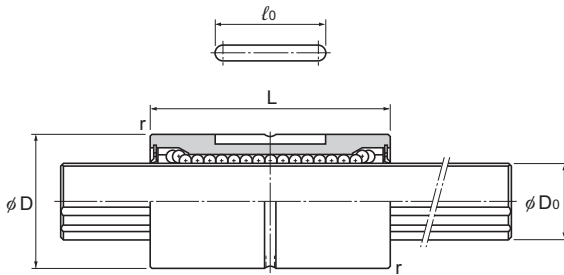
Number of spline nuts  
on one shaft  
(no symbol for one nut)

Contamination protection  
accessory symbol  
(<sup>(1)</sup>)

Overall spline shaft length (<sup>(5)</sup>)  
(in mm)

(\*1) See **A3-126**. (\*2) See **A3-30**. (\*3) See **A3-35**. (\*4) See **A3-93**. (\*5) See **A3-121**.

# Medium Torque Type 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	$C_{OT}$ N·m	C kN	$C_0$ kN	$M_{A1}^{**}$ N·m	$M_{A2}^{**}$ 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	1140	335	3.9
	30	6	171	148	20.5	34	290	1710	375	5.6
	40	6	419	377	37.8	60.5	687	3760	1000	9.9
	50	6	842	769	60.9	94.5	1340	7350	1950	15.5
	60	6	1220	1040	73.5	111.7	1600	9990	2500	22.3
	80	6	2310	1920	104.9	154.8	2510	16000	4680	39.6
	100	6	3730	3010	136.2	195	3400	24000	9550	61.8

Note)  $M_{A1}$  indicates the permissible moment value in the axial direction when a single spline nut is used, as shown in the figure above.

$M_{A2}$  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.

For details on the maximum lengths of ball spline shafts by accuracy, please see **A3-121**.