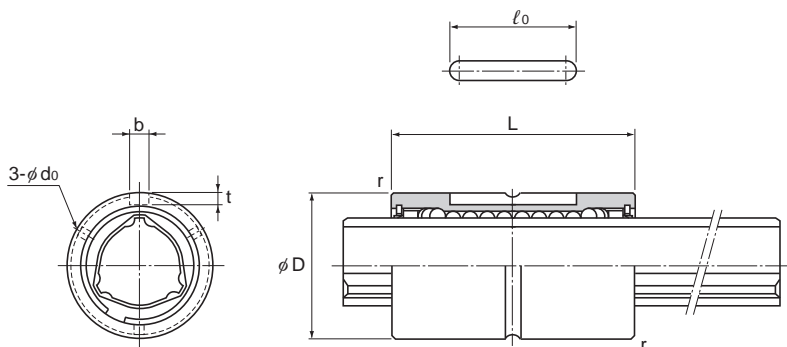


Model LBS (Medium Load Type)



Model No.	Spline nut dimensions								
	Outer diameter		Length		Keyway dimensions			r	Greasing hole d _o
	D	Tolerance	L	Tolerance	b H8	t +0.1 0	ℓ _o		
LBS 15	23	⁰ -0.013	40	⁰ -0.2	3.5	2	20	0.5	2
○● LBS 20	30	⁰ -0.016	50	⁰ -0.3	4	2.5	26	0.5	2
○● LBS 25	37		60		5	3	33	0.5	2
○● LBS 30	45		70		7	4	41	1	3
○● LBS 40	60	⁰ -0.019	90		10	4.5	55	1	3
○● LBS 50	75		100		15	5	60	1.5	4
○● LBS 70	100	⁰ -0.022	110	⁰ -0.4	18	6	68	2	4
○● LBS 85	120		140		20	7	80	2.5	5
○● LBS 100	140	⁰ -0.025	160		28	9	93	3	5

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

(Example) LBS20 A CL+500L H

└ High temperature symbol

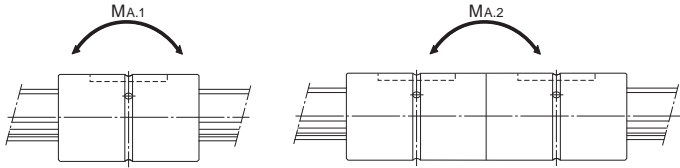
- : indicates model numbers for which felt seal types are available (see **A3-90**).
A felt seal cannot be attached to Ball Spline models using metal retainer.

Model number coding

2	LBS40	UU	CL	+1000L	P	K
Model No.		Symbol for clearance in the rotational direction (*2)	Contamination protection accessory symbol (*1)	Accuracy symbol (*3)	Overall spline shaft length (*5) (in mm)	Symbol for standard hollow spline shaft (*4)
Number of spline nuts on one shaft (no symbol for one nut)						

(*1) See **A3-90**. (*2) See **A3-25**. (*3) See **A3-28**. (*4) See **A3-49**. (*5) See **A3-87**.

High Torque Type Ball Spline



Unit: mm

	Basic torque rating		Basic load rating (radial)		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 kg	Spline shaft kg/m
	30.4	74.5	4.4	8.4	25.4	185	0.06	1
	74.5	160	7.8	14.9	60.2	408	0.14	1.8
	154	307	13	23.5	118	760	0.25	2.7
	273	538	19.3	33.8	203	1270	0.44	3.8
	599	1140	31.9	53.4	387	2640	1	6.8
	1100	1940	46.6	73	594	4050	1.7	10.6
	2190	3800	66.4	102	895	6530	3.1	21.3
	3620	6360	90.5	141	2000	12600	5.5	32
	5190	12600	126	237	3460	20600	9.5	45

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.

(Single LBS-unit configuration is not stable in accuracy. We recommend using a single LBST unit or two LBS units in close contact with each other.)

For details on the maximum lengths of ball spline shafts by accuracy, please see **A3-87**.