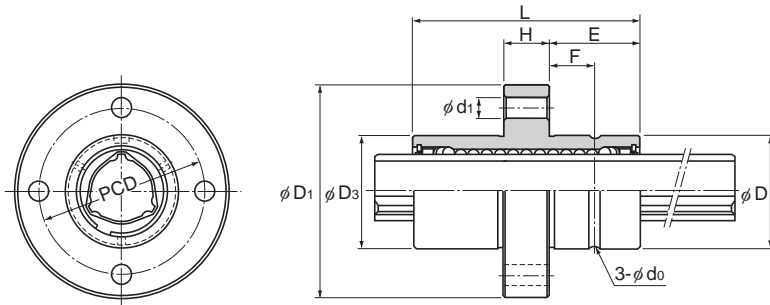


# Model LBR



Model No.	Spline nut dimensions								
	Outer diameter		Outer diameter D <sub>3</sub>	Length		Flangediameter D <sub>1</sub>	H	E	PCD
	D	Tolerance		L	Tolerance				
LBR 15	25	<sup>0</sup> <sub>-0.013</sub>	25.35	40	0 -0.2	45.4	9	15.5	34
○● LBR 20	30	0 -0.016	30.35	60		56.4	12	24	44
○● LBR 25	40		40.35	70	0 -0.3	70.4	14	28	54
○● LBR 30	45	45.4	80	75.4		16	32	61	
○● LBR 40	60	0 -0.019	60.4	100	0 -0.3	96.4	18	41	78
○● LBR 50	75		75.4	112		112.4	20	46	94
○ LBR 60	90	0 -0.022	90.5	127	0 -0.4	134.5	22	52.5	112
○● LBR 70	95		95.6	135		140.6	24	55.5	117
○● LBR 85	120	0 -0.025	120.6	155	0 -0.4	170.6	26	64.5	146
○● LBR 100	140		140.6	175		198.6	34	70.5	170

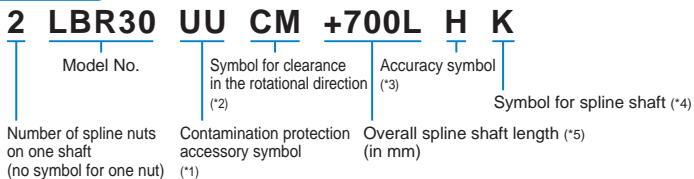
Note) ○: indicates model numbers for which high temperature types are available (with metal retainer; service temperature: up to 100°C).

(Example) LBR40 A CM+600L H

└ High temperature symbol

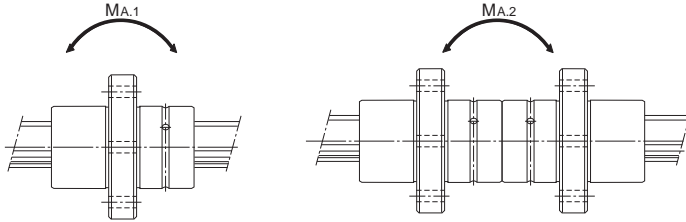
- : indicates model numbers for which felt seal types are available (see **A3-120**).  
A felt seal cannot be attached to Ball Spline models using metal retainer.

## Model number coding



(\*1) See **A3-120**. (\*2) See **A3-30**. (\*3) See **A3-34**. (\*4) See **A3-69**. (\*5) See **A3-115**.

## High Torque Type Ball Spline



Unit: mm

				Basic torque rating		Basic load rating (radial)		Static permissible moment		Mass	
	Mounting hole	F	Greasing hole	$C_T$ N-m	$C_{OT}$ N-m	C kN	$C_0$ kN	$M_{A.1}^{**}$ N-m	$M_{A.2}^{**}$ N-m	Spline Nut kg	Spline shaft kg/m
	4.5	7.5	2	30.4	74.5	4.4	8.4	25.4	185	0.14	1
	5.5	12	2	90.2	213	9.4	20.1	103	632	0.33	1.8
	5.5	14	2	176	381	14.9	28.7	171	1060	0.54	2.7
	6.6	16	3	312	657	22.5	41.4	295	1740	0.9	3.8
	9	20.5	3	696	1420	37.1	66.9	586	3540	1.7	6.8
	11	23	4	1290	2500	55.1	94.1	941	5610	2.7	10.6
	11	26	4	1870	3830	66.2	121	1300	8280	3.7	15.6
	14	27	4	3000	6090	90.8	164	2080	11800	6	21.3
	16	32	5	4740	9550	119	213	3180	17300	8.3	32
	18	35	5	6460	14400	137	271	4410	25400	14.2	45

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

$M_{A.2}$  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.

For details on the maximum lengths of ball spline shafts by accuracy, please see [A3-115](#).