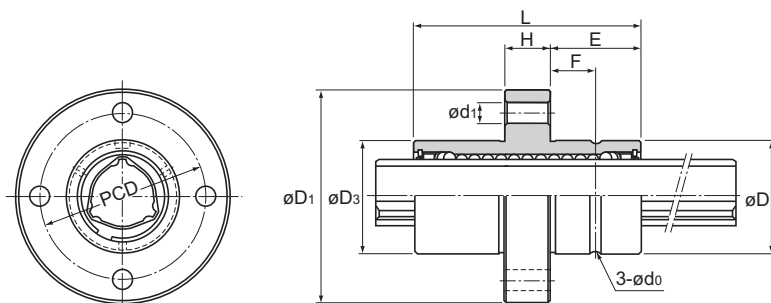


# Model LBR



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

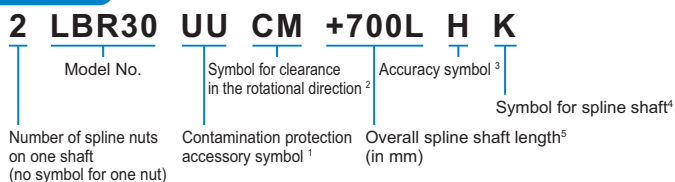
○: Indicates model numbers able to handle high temperatures (with metal retainers, the operating temperature is up to 100°C).

(Example) LBR40 A CM+600L H

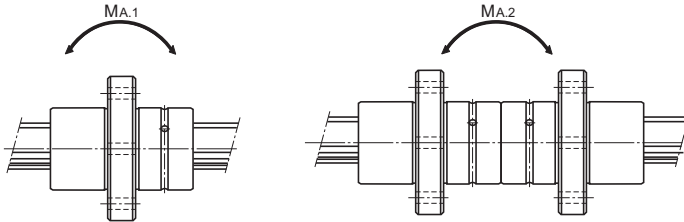
High temperature symbol

●: Indicates model numbers for which felt seals are available (see **A3-128**).  
A felt seal cannot be attached to ball spline models using metal retainers.

## 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 **A3-71**. <sup>5</sup> See **A3-123**.



Unit: mm

				Basic torque rating		Basic load rating (radial)		Static permissible moment		Mass	
Mounting hole	F	Lubrication hole	$C_T$ N·m	$C_{DT}$ N·m	C kN	$C_0$ kN	$M_{A.1}^1$ N·m	$M_{A.2}^2$ N·m	Spline nut kg	Spline shaft kg/m	
$d_1$		$d_0$									
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	1,060	0.54	2.7	
6.6	16	3	312	657	22.5	41.4	295	1,740	0.9	3.8	
9	20.5	3	696	1,420	37.1	66.9	586	3,540	1.7	6.8	
11	23	4	1,290	2,500	55.1	94.1	941	5,610	2.7	10.6	
11	26	4	1,870	3,830	66.2	121	1,300	8,280	3.7	15.6	
14	27	4	3,000	6,090	90.8	164	2,080	11,800	6	21.3	
16	32	5	4,740	9,550	119	213	3,180	17,300	8.3	32	
18	35	5	6,460	14,400	137	271	4,410	25,400	14.2	45	

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

<sup>2</sup>  $M_{A.2}$  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.

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