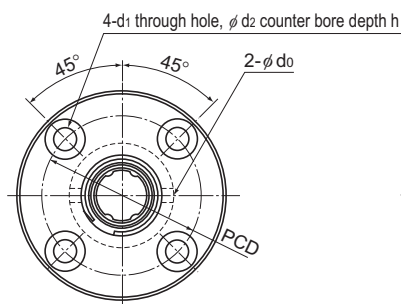
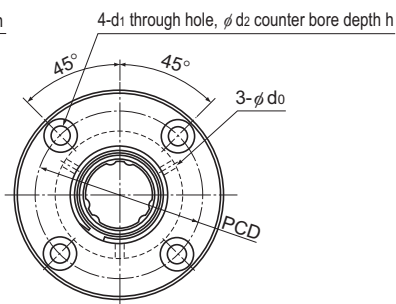


## Model LF



Models LF6 to 13



Models LF16 to 50

Model No.	Spline nut dimensions												
	Outer diameter		Length		Flange diameter		H	F	C	r	Lubrication hole d <sub>0</sub>	PCD	Mounting hole d <sub>1</sub> × d <sub>2</sub> × h
	D	Tolerance	L	Tolerance	D <sub>1</sub>	Tolerance							
LF 6	14	0	25	0	30	0 -0.2	5	7.5	0.5	0.5	1.5	22	3.4 × 6.5 × 3.3
LF 8	16	-0.011	25		32		5	7.5	0.5	0.5	1.5	24	3.4 × 6.5 × 3.3
LF 10	21	0 -0.013	33	42	6		10.5	0.5	0.5	1.5	32	4.5 × 8 × 4.4	
LF 13	24		36	44	7		11	0.5	0.5	1.5	33	4.5 × 8 × 4.4	
○ LF 16	31	0 -0.016	50	51	7		18	0.5	0.5	2	40	4.5 × 8 × 4.4	
○ LF 20	35		63	58	9		22.5	0.5	0.5	2	45	5.5 × 9.5 × 5.4	
○ LF 25	42	71	65	9	26.5		0.5	0.5	3	52	5.5 × 9.5 × 5.4		
○ LF 30	47	80	75	10	30		0.5	0.5	3	60	6.6 × 11 × 6.5		
○ LF 40	64	100	100	14	36		1	0.5	4	82	9 × 14 × 8.6		
○ LF 50	80	-0.019	125	0 -0.3	124		16	46.5	1	1	4	102	11 × 17.5 × 11

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

(Example) LF30 A CL+700L H

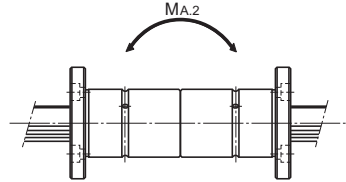
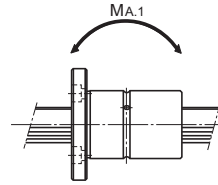
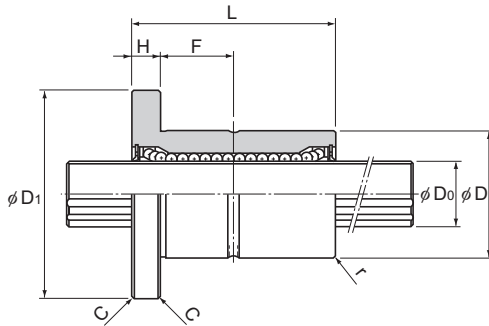
High temperature symbol

### Model number coding

<b>2</b>	<b>LF20</b>	<b>UU</b>	<b>CM</b>	<b>+400L</b>	<b>P</b>	<b>N</b>
Model No.		Symbol for clearance in the rotational direction (*2)		Accuracy symbol (*3)		Symbol for spline shaft (*4)
Number of spline nuts on one shaft (no symbol for one nut) (*1)		Contamination protection accessory symbol (*1)		Overall spline shaft length (in mm) (*5)		

(\*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

Ball Spline

	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
	6	4	0.98	1.96	1.18	2.16	4.9	36.3	35	0.23
	8	4	1.96	2.94	1.47	2.55	5.9	44.1	37	0.4
	10	4	3.92	7.84	2.84	4.9	15.7	98	90	0.62
	13	4	5.88	10.8	3.53	5.78	19.6	138	110	1.1
	16	6	31.4	34.3	7.06	12.6	67.6	393	230	1.6
	20	6	56.9	55.9	10.2	17.8	118	700	330	2.5
	25	6	105	103	15.2	25.8	210	1140	455	3.9
	30	6	171	148	20.5	34	290	1710	565	5.6
	40	6	419	377	37.8	60.5	687	3760	1460	9.9
	50	6	842	769	60.9	94.5	1340	7350	2760	15.5

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**.