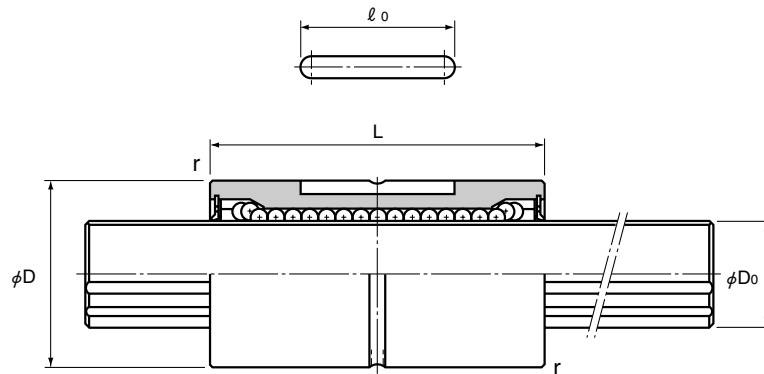




Unit: mm

Spline shaft diameter	No. of 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} (See Note 3) [N-m]	M_{A2} (See Note 3) [N-m]	Spline nut [g]	Spline shaft [kg/m]
D_0 h7									
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 3: M_{A1} indicates the permissible moment value in the axial direction when one spline nut is used.

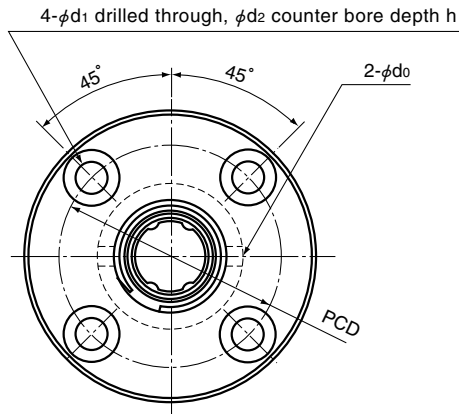
M_{A2} indicates the permissible moment value in the axial direction when two spline nuts are used.

(Using a single LT unit is not stable in accuracy. We recommend using two units in close contact with each other.)

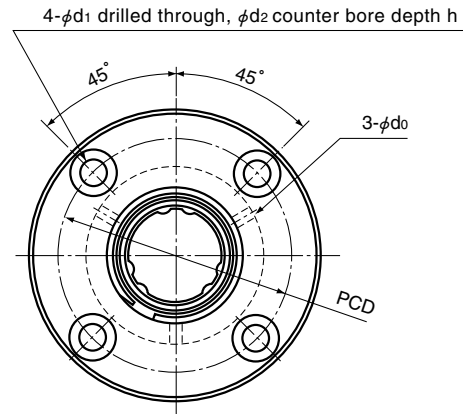
Note 4: For details on the maximum lengths of ball spline shafts by accuracy, please see page 8.

Model LF

Dimensional Table for Model LF



Model LF13 or smaller



Model LF16 or larger

Model No.	Spline nut dimensions												
	Outer diameter		Length		Flange diameter		H	F	C	r	Greasing hole	PCD	Mounting hole
	D	Tolerance	L	Tolerance	D ₁	Tolerance					d _o		
LF 6	14	0	25	0 -0.2	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	33		42		6	10.5	0.5	0.5	1.5	32	4.5×8×4.4
LF 13	24	-0.013	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	0	100	-0.3	100	14	36	1	0.5	4	82	9×14×8.6	
○ LF 50	80	-0.019	125		124	16	46.5	1	1	4	102	11×17.5×11	

Note 1: ○: For those models, high-temperature types (metal retainer, service temperature: up to 100°C) are available.

(Example) LF30 A CL+700L H

— Symbol for high-temperature type

Example of model number coding

2 LF20 UU CM +400L P N

Model number

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

Symbol for clearance in the rotational direction (see page 6)

Overall spline shaft length (in mm)

Dust prevention accessory symbol

UU: rubber seal attached on both ends of spline nut

Accuracy symbol (see page 7)

No symbol: without seal

Symbol for standard hollow spline shaft (no symbol: solid spline shaft)

U: rubber seal attached on either end of spline nut