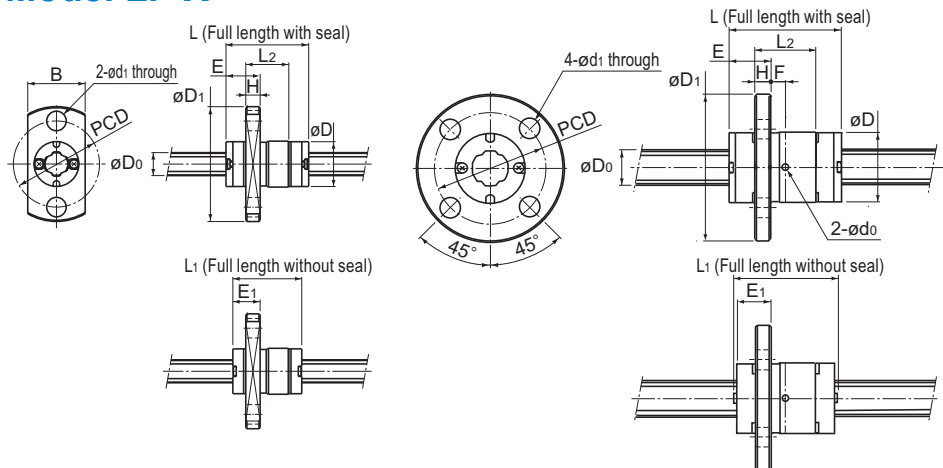


Model LF-X



Model LF4X

Models LF5X to 8X

Model No.	Spline shaft diameter	Spline nut dimensions												
	D ₀ h7	Outer diameter		Length			Flange outer diameter		H	F	E	E ₁	Lubrication hole d ₀	PCD
		D	Tolerance	L (With seal)	L ₁ (Without seal)	L ₂	D ₁	B						
LF 4X	4	8	⁰ -0.009	14.4	12	7.5	20	10	2.5	—	5.95	4.75	—	15
LF 5X LF 5XL	5	10	⁰ -0.009	15 26	13.6 24.6	7.3 18.3	23	—	2.7	— 6.5	6.55	5.35	— 1	17
LF 6X LF 6XL	6	12	⁰ -0.011	19 30	17.6 28.6	10.2 21.2	25	—	2.7	2.4 7.9	7.1	5.9	1	19
LF 8X LF 8XL	8	15	⁰ -0.011	25 40	23.8 38.8	14.6 29.6	28	—	3.8	3.5 11	9	7.5	1.5	22
LF 10X	10	19	⁰ -0.013	33	30.8	23.9	38	—	6	5.95	10.55	9.45	1.5	28
LF 13X	13	23	⁰ -0.013	36	32.4	24	43	—	6	6	12	10.2	1.5	33
LF 16X	16	28	⁰ -0.013	50	46.4	35.5	48	—	6	11.7	13.3	11.5	2	38
LF 20X	20	32	⁰ -0.016	63	59	47.4	54	—	8	15.7	15.8	13.8	2	43
LF 25X	25	40	⁰ -0.016	71	67	52.6	62	—	8	18.3	17.2	15.2	3	51
LF 30X	30	45	⁰ -0.016	80	75.6	59.6	74	—	10	19.8	20.2	18	3	60

Model number coding

2 LF20X UU CL +700L P K

Model No.

Symbol for clearance
in the rotational direction²

Accuracy
symbol³

Symbol for spline shaft⁴

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

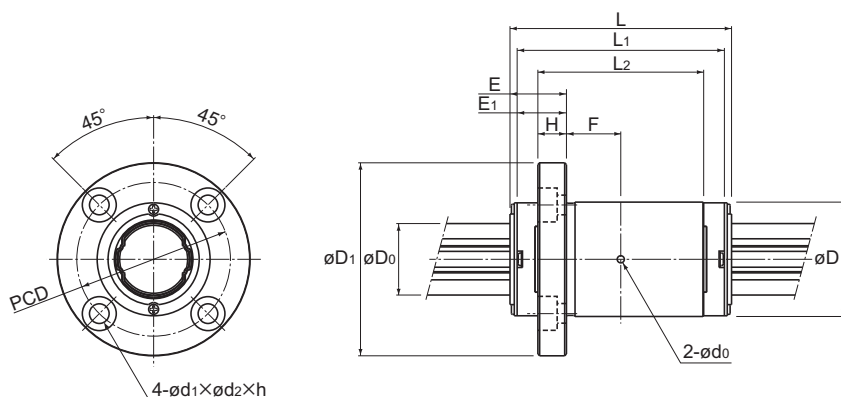
Contamination protection
accessory symbol¹

Overall spline shaft length⁵
(in mm)

¹ See **A3-128**. ² See **A3-32**. ³ See **A3-37**. ⁴ See **A3-95**. ⁵ See **A3-123**.

Medium-Torque Ball Spline

Ball Spline



Models LF10X to 30X

Unit: mm

		Basic torque rating		Basic load rating		Static permissible moment			Mass	
	Mounting hole					M_{A1}	M_{A2} (With seal)	M_{A2} (Without seal)	Spline nut g	Spline shaft kg/m
	$d_1 \times d_2 \times h$	C_T N·m	C_{OT} N·m	C kN	C_0 kN	 N·m	 N·m	 N·m		
	3.4 through	0.49	0.82	0.42	0.7	0.84	6.2	5	4.7	0.1
	3.4 through	0.82 1.59	1.25 3.2	0.56 1.09	0.85 2.19	1.04 6.11	8.2 35.5	6.6 28.4	9.9 14.6	0.15
	3.4 through	1.73 2.81	2.77 5.54	0.98 1.6	1.58 3.15	2.85 10.6	19 59.8	15.2 47.8	13.8 20.5	0.21
	3.4 through	6 10.1	9.23 19.5	1.39 2.35	2.15 4.53	5.13 21.1	34.3 110.9	27.4 88.7	26.5 36.5	0.38
	4.5×8×4.4	9.41	17.3	2.94	5.4	21.5	114	104	66	0.59
	4.5×8×4.4	17.1	28.7	4.16	6.96	28.9	164	149	82	1.01
	4.5×8×4.4	42.9	68.6	8.4	13.4	77.4	419	381	131	1.52
	5.5×9.5×5.4	66.4	117	10.5	18.6	144	735	669	212	2.41
	5.5×9.5×5.4	125	207	15.9	26.2	230	1,183	1,077	335	3.71
	6.6×11×6.5	196	319	20.8	34	335	1,714	1,560	489	5.37

Notes: The mass of the spline nut does not include the seal.
Please check the spline shaft strength tests (A3-12) before use.