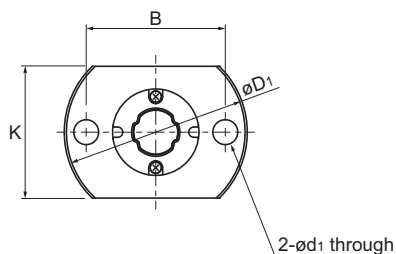


Model LFH-X



Models LFH5X to 13X

Model No.	Spline shaft diameter	Spline nut dimensions													
		Outer diameter		Length			Flange outer diameter		B	C	H	F	E	E ₁	Lubrication hole
		D	Tolerance	L (With seal)	L ₁ (Without seal)	L ₂	D ₁	K							
LFH 5X LFH 5XL	5	10	$\begin{smallmatrix} 0 \\ -0.009 \end{smallmatrix}$	$\begin{smallmatrix} 15 \\ 26 \end{smallmatrix}$	$\begin{smallmatrix} 13.6 \\ 24.6 \end{smallmatrix}$	$\begin{smallmatrix} 7.3 \\ 18.3 \end{smallmatrix}$	23	16	17	—	2.7	$\begin{smallmatrix} — \\ 6.5 \end{smallmatrix}$	6.55	5.35	$\begin{smallmatrix} — \\ 1 \end{smallmatrix}$
LFH 6X LFH 6XL	6	12	$\begin{smallmatrix} 0 \\ -0.011 \end{smallmatrix}$	$\begin{smallmatrix} 19 \\ 30 \end{smallmatrix}$	$\begin{smallmatrix} 17.6 \\ 28.6 \end{smallmatrix}$	$\begin{smallmatrix} 10.2 \\ 21.2 \end{smallmatrix}$	25	18	19	—	2.7	$\begin{smallmatrix} 2.4 \\ 7.9 \end{smallmatrix}$	7.1	5.9	1
LFH 8X LFH 8XL	8	15	$\begin{smallmatrix} 0 \\ -0.011 \end{smallmatrix}$	$\begin{smallmatrix} 25 \\ 40 \end{smallmatrix}$	$\begin{smallmatrix} 23.8 \\ 38.8 \end{smallmatrix}$	$\begin{smallmatrix} 14.6 \\ 29.6 \end{smallmatrix}$	28	21	22	—	3.8	$\begin{smallmatrix} 3.5 \\ 11 \end{smallmatrix}$	9	7.5	1.5
LFH 10X	10	19	$\begin{smallmatrix} 0 \\ -0.013 \end{smallmatrix}$	33	30.8	23.9	38	25	29	—	6	5.95	10.55	9.45	1.5
LFH 13X	13	23	$\begin{smallmatrix} 0 \\ -0.013 \end{smallmatrix}$	36	32.4	24	43	29	33	—	6	6	12	10.2	1.5
LFH 16X	16	28	$\begin{smallmatrix} 0 \\ -0.013 \end{smallmatrix}$	50	46.4	35.5	48	34	31	22	6	11.7	13.3	11.5	2
LFH 20X	20	32	$\begin{smallmatrix} 0 \\ -0.016 \end{smallmatrix}$	63	59	47.4	54	38	36	24	8	15.7	15.8	13.8	2
LFH 25X	25	40	$\begin{smallmatrix} 0 \\ -0.016 \end{smallmatrix}$	71	67	52.6	62	46	40	32	8	18.3	17.2	15.2	3
LFH 30X	30	45	$\begin{smallmatrix} 0 \\ -0.016 \end{smallmatrix}$	80	75.6	59.6	74	51	49	35	10	19.8	20.2	18	3

Model number coding

2 LFH20X UU CL +700L P K

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

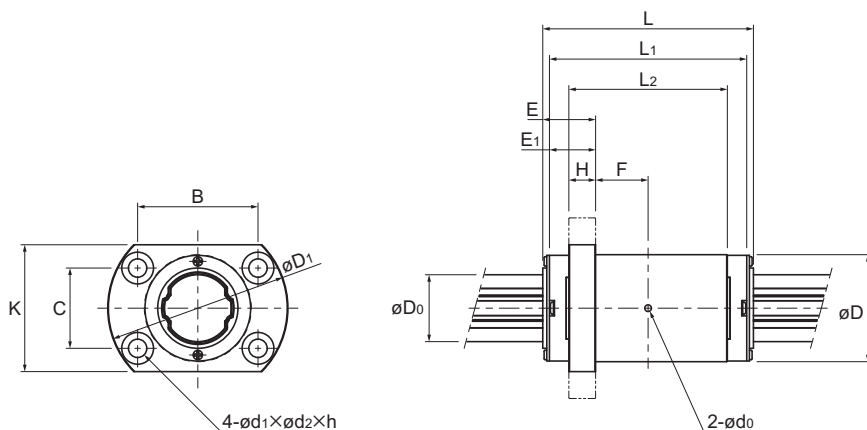
Symbol for clearance in the rotational direction²
Contamination protection accessory symbol¹

Accuracy symbol³
Overall spline shaft length⁵ (in mm)

Symbol for spline shaft⁴

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

Medium-Torque Ball Spline



Models LFH16X to 30X

Unit: mm

		Basic torque rating		Basic load rating		Static permissible moment			Mass	
	Mounting hole									
	d ₁ ×d ₂ ×h	C _T N·m	C _{0T} N·m	C kN	C ₀ kN	M _{A1}  N·m	M _{A2} (With seal)  N·m	M _{A2} (Without seal)  N·m	Spline nut g	Spline shaft kg/m
	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	8.6 13.3	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	12.4 19.1	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	24.4 34.4	0.38
	4.5 through	9.41	17.3	2.94	5.4	21.5	114	104	59	0.59
	4.5 through	17.1	28.7	4.16	6.96	28.9	164	149	71	1.01
	4.5×8×4.4	42.9	68.6	8.4	13.4	77.4	419	381	116	1.52
	5.5×9.5×5.4	66.4	117	10.5	18.6	144	735	669	186	2.41
	5.5×9.5×5.4	125	207	15.9	26.2	230	1,183	1,077	306	3.71
	6.6×11×6.5	196	319	20.8	34	335	1,714	1,560	422	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.