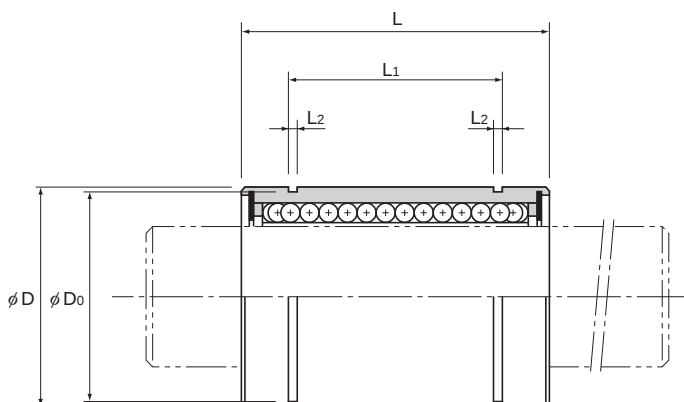


Model LM



Model No.			Ball rows	Main						
Standard type	Clearance-adjustable type	Open type		Inscribed bore diameter		Outer diameter		Length		
				dr	Tolerance		D	Tolerance High/Precision	L	Tolerance
					High	Precision				
LM 3	—	—	4	3	0 −0.008	0 −0.005	7	0 −0.009	10	0 −0.12
LM 4	—	—	4	4			8		12	
LM 5	—	—	4	5			10		15	
LM 6	LM 6-AJ	—	4	6	0 −0.009	0 −0.006	12	0 −0.011	19	0 −0.2
LM 8S	LM 8S-AJ	—	4	8			15		17	
LM 8	LM 8-AJ	—	4	8			15		24	
LM 10	LM 10-AJ	—	4	10			19	0 −0.013	29	
LM 12	LM 12-AJ	—	4	12			21		30	
LM 13	LM 13-AJ	LM 13-OP	4	13			23		32	
LM 16	LM 16-AJ	LM 16-OP	5	16			28	37		
LM 20	LM 20-AJ	LM 20-OP	5	20	0 −0.010	0 −0.007	32	0 −0.016	42	0 −0.3
LM 25	LM 25-AJ	LM 25-OP	6	25			40		59	
LM 30	LM 30-AJ	LM 30-OP	6	30			45		64	
LM 35	LM 35-AJ	LM 35-OP	6	35	0 −0.012	0 −0.008	52	0 −0.019	70	0 −0.3
LM 40	LM 40-AJ	LM 40-OP	6	40			60		80	
LM 50	LM 50-AJ	LM 50-OP	6	50			80		100	
LM 60	LM 60-AJ	LM 60-OP	6	60	0 −0.015	0 −0.009	90	0 −0.022	110	

Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.

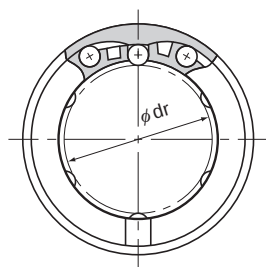
If the ambient temperature exceeds 80°C, use the type equipped with a metal retainer (model LM-GA).

If requiring a type equipped with a seal, indicate it when placing an order.

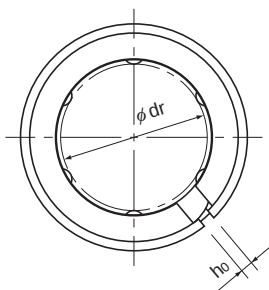
(Example) LM13 UU

—— Seal attached on both ends of the nut

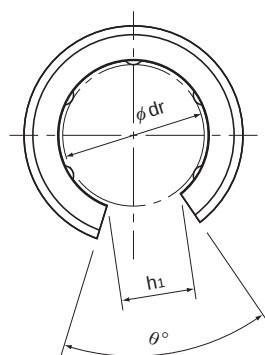
For the clearance-adjustable type (-AJ) and open type (-OP), the inscribed bore diameter tolerance, the outer diameter tolerance, and the eccentricity indicate the values before the division of the nut.



Model LM



Model LM-AJ



Model LM-OP

Unit: mm

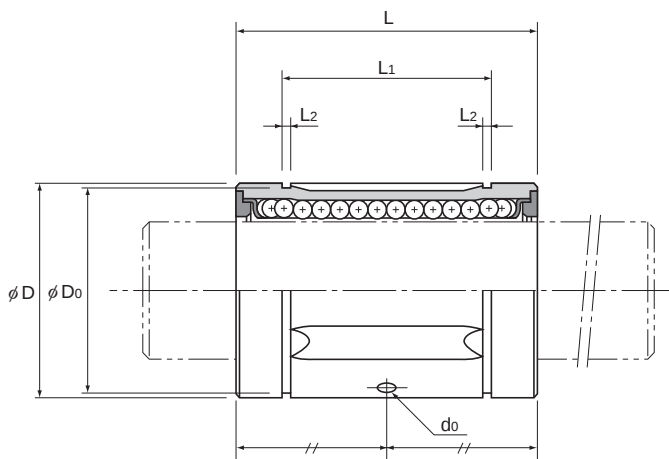
dimensions								Eccentricity (max) μm		Radial clearance tolerance μm	Basic load rating		
	L_1	Tolerance	L_2	D_0	h_0	h_1	θ°	High	Precision		C N	C_0 N	Mass g
	—	—	—	—	—	—	—	8	4	-2	88.2	108	1.6
	—	—	—	—	—	—	—	8	4	-3	88.2	127	2.2
10.2	0 -0.2		1.1	9.6	—	—	—	8	4	-3	167	206	4
13.5			1.1	11.5	1	—	—	12	8	-5	206	265	8
11.5			1.1	14.3	1	—	—	12	8	-5	176	225	9.3
17.5			1.1	14.3	1	—	—	12	8	-5	265	402	13.5
22			1.3	18	1	—	—	12	8	-5	373	549	25
23			1.3	20	1.5	—	—	12	8	-5	412	598	28
23			1.3	22	1.5	9	80	12	8	-7	510	775	38
26.5			1.6	27	1.5	11	60	12	8	-7	775	1180	78
30.5			1.6	30.5	1.5	11	60	15	10	-9	863	1370	86
41			1.85	38	2	12	50	15	10	-9	980	1570	210
44.5	0 -0.3		1.85	43	2.5	15	50	15	10	-9	1570	2750	221
49.5			2.1	49	2.5	17	50	20	12	-13	1670	3140	358
60.5			2.1	57	3	20	50	20	12	-13	2160	4020	557
74			2.6	76.5	3	25	50	20	12	-13	3820	7940	1418
85			3.15	86.5	3	30	50	25	17	-16	4710	10000	1733

Note) When using the Linear Bushing on a single shaft, use two or more units (instead of one unit) on the same shaft to avoid a moment load, and secure a large distance between the units.

If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.

For further information, contact THK.

Model LM-GA (Metal Retainer Type)



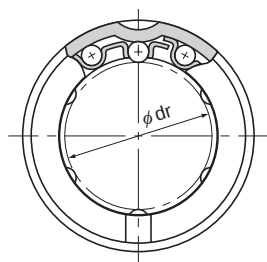
Model No.			Ball rows	Main						
Standard type	Clearance-adjustable type	Open type		Inscribed bore diameter		Outer diameter		Length		
				dr	Tolerance High Precision	D	Tolerance High/Precision	L	Tolerance	
LM 6GA	—	—	3	6	0 -0.009	0 -0.006	12	0 -0.011	19	0 -0.2
LM 8SGA	—	—	3	8			15		17	
LM 8GA	—	—	3	8			15		24	
LM 10GA	—	—	4	10			19	29		
LM 12GA	LM 12GA-AJ	LM 12GA-OP	4	12			21	30		
LM 13GA	LM 13GA-AJ	LM 13GA-OP	4	13			23	32		
LM 16GA	LM 16GA-AJ	LM 16GA-OP	4	16	0 -0.010	0 -0.007	28	0 -0.016	37	0 -0.3
LM 20GA	LM 20GA-AJ	LM 20GA-OP	5	20			32		42	
LM 25GA	LM 25GA-AJ	LM 25GA-OP	5	25			40		59	
LM 30GA	LM 30GA-AJ	LM 30GA-OP	6	30			45		64	
LM 35GA	LM 35GA-AJ	LM 35GA-OP	6	35			52	70		
LM 38GA	LM 38GA-AJ	LM 38GA-OP	6	38			57	76		
LM 40GA	LM 40GA-AJ	LM 40GA-OP	6	40	0 -0.012	0 -0.008	60	0 -0.019	80	0 -0.3
LM 50GA	LM 50GA-AJ	LM 50GA-OP	6	50			80		100	
LM 60GA	LM 60GA-AJ	LM 60GA-OP	6	60			0 -0.022		110	
LM 80GA	LM 80GA-AJ	LM 80GA-OP	6	80	-0.015	-0.009	120		140	0 -0.4
LM 100GA	LM 100GA-AJ	LM 100GA-OP	6	100	0	0	150	0	175	
LM 120A	LM 120A-AJ	LM 120A-OP	8	120	-0.020	-0.010	180	-0.025	200	

Note) If requiring a type equipped with a seal, indicate it when placing an order. (seal heat resistance: 80°C.)

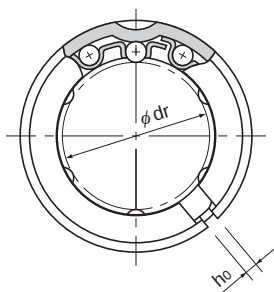
(Example) LM50GA UU

Seal attached on both ends of the nut

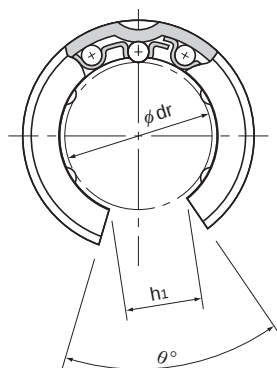
For the clearance-adjustable type (-AJ) and open type (-OP), the inscribed bore diameter tolerance, the outer diameter tolerance, and the eccentricity indicate the values before the division of the nut.



Model LM-GA



Model LM-GA-AJ



Model LM-GA-OP

Unit: mm

dimensions								Greasing hole d _o	Eccentricity (max) μm		Radial clearance tolerance μm	Basic load rating		Mass g
	L ₁	Tolerance	L ₂	D _o	h _o	h ₁	θ°		High	Precision		C N	C ₀ N	
	13.5	0 -0.2	1.1	11.5	—	—	—	—	12	8	-5	206	265	7
	11.5		1.1	14.3	—	—	—	—	12	8	-5	176	225	10
	17.5		1.1	14.3	—	—	—	—	12	8	-5	265	402	14
	22		1.3	18	—	—	—	2	12	8	-5	373	549	27
	23		1.3	20	1.5	7.5	80	2	12	8	-5	412	598	31
	23		1.3	22	1.5	9	80	2	12	8	-7	510	775	41
	26.5		1.6	27	1.5	11	60	2.3	12	8	-7	775	1180	69
	30.5		1.6	30.5	2	11	60	2.3	15	10	-9	863	1370	92
	41	0 -0.3	1.85	38	2	13	60	3	15	10	-9	980	1570	200
	44.5		1.85	43	2.5	15	50	3	15	10	-9	1570	2750	250
	49.5		2.1	49	2.5	17	50	3	20	12	-13	1670	3140	370
	58.5		2.1	54.5	3	18	50	3	20	12	-13	2160	4020	490
	60.5		2.1	57	3	20	50	3	20	12	-13	2160	4020	590
	74		2.6	76.5	3	25	50	4	20	12	-13	3820	7940	1500
	85		3.15	86.5	3	30	50	4	25	17	-16	4710	10000	1850
	105.5	0 -0.4	4.15	116	3	40	50	4	25	17	-16	7350	16000	4200
	125.5		4.15	145	3	50	50	4	30	20	-20	14100	34800	8200
	158.6		4.15	175	4	85	80	5	30	20	-25	16400	40000	15500

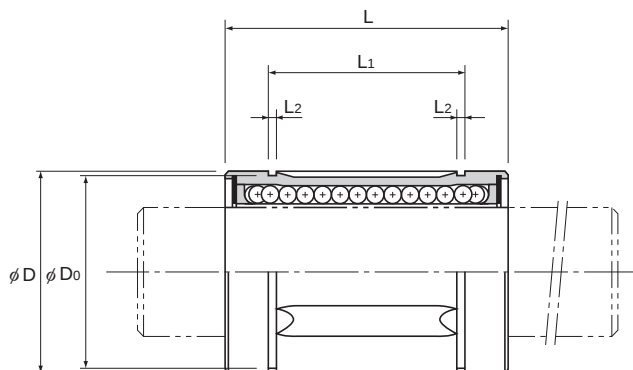
Note) When using the Linear Bushing on a single shaft, use two or more bushings on the same shaft to minimize a moment load, and secure a large distance between the units.

Model LM-GA has oil holes as a standard feature.

If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.

For further information, contact THK.

Model LM-MG (Stainless Steel Type)



Model No.			Ball rows	Main								
Standard type	Clearance- adjustable type	Open type		Inscribed bore diameter		Outer diameter		Length				
				dr	Tolerance	D	Tolerance	L	Tolerance			
					High		Precision			High/Precision		
LM 3M	—	—	4	3	0 -0.008	0 -0.005	7	0 -0.009	10	0 -0.12		
LM 4M	—	—	4	4			8		12			
LM 5M	—	—	4	5			10		15			
* LM 6MG	LM 6MG-AJ	—	4	6	0 -0.009	0 -0.006	12	0 -0.011	19	0 -0.2		
* LM 8SMG	LM 8SMG-AJ	—	4	8			15		17			
* LM 8MG	* LM 8MG-AJ	—	4	8			15		24			
* LM 10MG	* LM 10MG-AJ	—	4	10			19	0 -0.013	29			
* LM 12MG	* LM 12MG-AJ	—	4	12			21		30			
* LM 13MG	* LM 13MG-AJ	* LM13MGA-OP	4	13			23		32			
* LM 16MG	* LM 16MG-AJ	* LM16MGA-OP	4	16			28	37				
* LM 20MG	* LM 20MG-AJ	* LM20MGA-OP	5	20			0 -0.010	0 -0.007	32		0 -0.016	42
* LM 25MG	* LM 25MG-AJ	* LM25MGA-OP	5	25					40			59
* LM 30MG	* LM 30MG-AJ	* LM30MGA-OP	6	30	45	64						
* LM 35MG	* LM 35MG-AJ	* LM35MGA-OP	6	35	0	0	52	0	70	0 -0.3		
* LM 40MG	* LM 40MG-AJ	* LM40MGA-OP	6	40	-0.012	-0.008	60	-0.019	80			

Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.

If the ambient temperature exceeds 80°C, use the type equipped with a metal retainer and indicate "A" at the end of the model number.

(For those marked with * in the table, metal retainers are available. Only metal retainer is available for open type.)

(Metal retainer types of models LM6MG, 8SMG and 8MG each have 3 rows of balls.)

(Example) LM30MG A

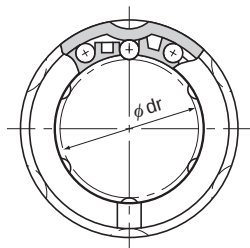
High temperature symbol

If requiring a type equipped with a seal, indicate it when placing an order. (seal heat resistance: 80°C.)

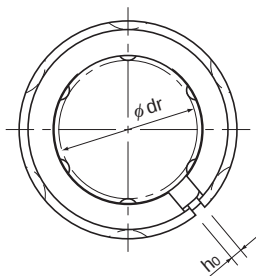
(Example) LM30MG UU

Seal attached on both ends of the nut

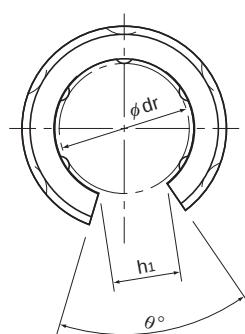
For the clearance-adjustable type (-AJ) and open type (-OP), the inscribed bore diameter tolerance, the outer diameter tolerance, and the eccentricity indicate the values before the division of the nut.



Model LM-MG



Model LM-MG-AJ



Model LM-MG-OP

Unit: mm

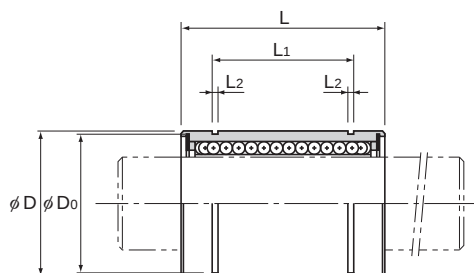
dimensions								Eccentricity (max) μm		Radial clearance tolerance μm	Basic load rating		
	L_1	Tolerance	L_2	D_o	h_o	h_1	θ°	High	Precision		C N	C_o N	Mass g
	—	—	—	—	—	—	—	8	4	-2	88.2	108	1.6
	—	—	—	—	—	—	—	8	4	-3	88.2	127	2.2
10.2			1.1	9.6	—	—	—	8	4	-3	167	206	4
13.5			1.1	11.5	1	—	—	12	8	-5	206	265	6
11.5			1.1	14.3	1	—	—	12	8	-5	176	225	9
17.5			1.1	14.3	1	—	—	12	8	-5	265	402	13
22			1.3	18	1	—	—	12	8	-5	373	549	23
23			1.3	20	1.5	—	—	12	8	-5	412	598	27
23			1.3	22	1.5	9	80	12	8	-7	510	775	35
26.5			1.6	27	1.5	11	80	12	8	-7	775	1180	59
30.5			1.6	30.5	1.5	11	60	15	10	-9	863	1370	79
41			1.85	38	2	12	50	15	10	-9	980	1570	170
44.5			1.85	43	2.5	15	50	15	10	-9	1570	2750	220
49.5			2.1	49	2.5	17	50	20	12	-13	1670	3140	330
60.5			2.1	57	3	20	50	20	12	-13	2160	4020	530

Note) Since the nut and the balls use stainless steel, these models are highly resistant to corrosion and environment.
If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.

For further information, contact THK.

When using the Linear Bushing on a single shaft, use two or more bushings on the same shaft to minimize a moment load, and secure a large distance between the units.

Model LME



Model No.			Ball rows	Main					
Standard type	Clearance-adjustable type	Open type		Inscribed bore diameter		Outer diameter		Length	
				dr	Tolerance	D	Tolerance	L	Tolerance
LME 5	LME 5-AJ	—	4	5	+0.008 0	12	0	22	0 −0.2
LME 8	LME 8-AJ	—	4	8		16	−0.008	25	
LME 12	LME 12-AJ	—	4	12		22	0	32	
LME 16	LME 16-AJ	LME 16-OP	5	16	+0.009	26	−0.009	36	0 −0.3
LME 20	LME 20-AJ	LME 20-OP	5	20	−0.001	32	0	45	
LME 25	LME 25-AJ	LME 25-OP	6	25	+0.011	40	−0.011	58	
LME 30	LME 30-AJ	LME 30-OP	6	30	−0.001	47	0	68	0 −0.3
LME 40	LME 40-AJ	LME 40-OP	6	40	+0.013 −0.002	62	0	80	
LME 50	LME 50-AJ	LME 50-OP	6	50		75	−0.013	100	
LME 60	LME 60-AJ	LME 60-OP	6	60		90	0	125	0 −0.4
LME 80GA	LME 80GA-AJ	LME 80GA-OP	6	80	+0.016 −0.004	120	−0.015	165	

Note) Since Linear Bushing models LME60 or smaller models are incorporated with a synthetic resin retainer, do not use them at temperature exceeding 80°C.

If the ambient temperature exceeds 80°C, use the type equipped with a metal retainer and indicate "A" at the end of the model number.

(Example) LME20G A

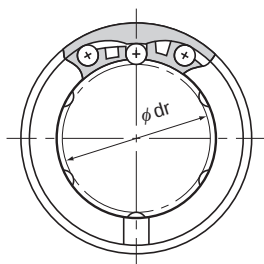
High temperature symbol

If requiring a type equipped with a seal, indicate it when placing an order. (seal heat resistance: 80°C.)

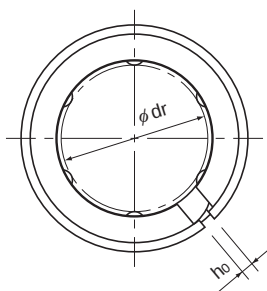
(Example) LME16 UU

Seal attached on both ends of the nut

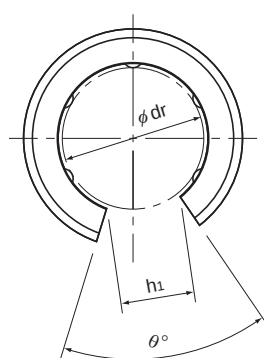
For the clearance-adjustable type (-AJ) and open type (-OP), the inscribed bore diameter tolerance, the outer diameter tolerance, and the eccentricity indicate the values before the division of the nut.



Model LME



Model LME-AJ



Model LME-OP

Unit: mm

dimensions								Eccentricity (max)	Radial clearance tolerance	Basic load rating		Mass g
	L_t	Tolerance	L_2	D_o	h_o	h_i	θ°			C N	C_o N	
	14.5	0 -0.2	1.1	11.5	1	—	—	12	-5	206	265	11.4
	16.5		1.1	15.2	1	—	—	12	-5	265	402	18.5
	22.9		1.3	21	1.5	7.5	78	12	-7	510	775	37
	24.9		1.3	24.9	1.5	10	78	12	-7	775	1180	52
	31.5		1.6	30.3	2	10	60	15	-9	863	1370	89
	44.1	0 -0.3	1.85	37.5	2	12.5	60	15	-9	980	1570	203
	52.1		1.85	44.5	2	12.5	50	15	-9	1570	2750	306
	60.6		2.15	59	3	16.8	50	17	-13	2160	4020	673
	77.6		2.65	72	3	21	50	17	-13	3820	7940	1025
	101.7	0 -0.4	3.15	86.5	3	27.2	54	20	-16	4710	10000	1914
	133.7		4.15	116	3	36.3	54	20	-16	7350	16000	4800

Note) If a metal retainer is used, the Linear Bushing has the shape as shown below.

When using the Linear Bushing on a single shaft, use two or more units (instead of one unit) on the same shaft to avoid a moment load, and secure a large distance between the units.

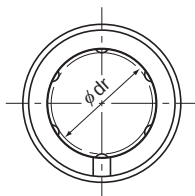
If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.

For further information, contact THK.



Model LME-GA

Model LM-L



Model LM-L

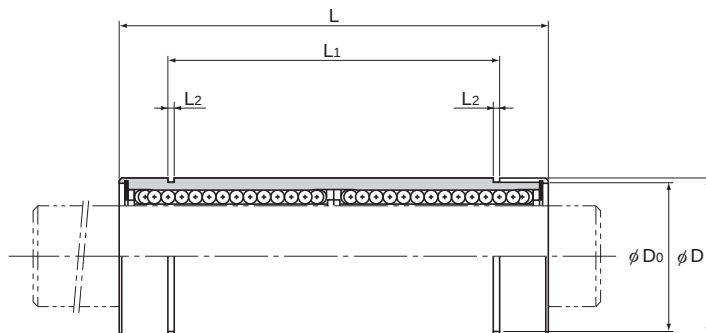
Model No. Standard type	Ball rows	Main					
		Inscribed bore diameter		Outer diameter		Length	
		dr	Tolerance	D	Tolerance	L	Tolerance
LM 3L	4	3	0 -0.010	7	0 -0.013	19	0 -0.3
LM 4L	4	4		8		23	
LM 5L	4	5		10		29	
LM 6L	4	6		12		35	
LM 8L	4	8		15	0 -0.016	45	
LM 10L	4	10		19		55	
LM 12L	4	12		21		57	
LM 13L	4	13		23		61	
LM 16L	5	16	0 -0.012	28	0 -0.019	70	0 -0.4
LM 20L	5	20		32		80	
LM 25L	6	25		40	0 -0.022	112	
LM 30L	6	30	0 -0.015	45		123	
LM 35L	6	35		52		135	
LM 40L	6	40		60	0 -0.025	154	
LM 50L	6	50	0 -0.020	80		192	
LM 60L	6	60		90		211	

Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.

If requiring a type equipped with a seal, indicate it when placing an order.

(Example) LM13L UU

└── Seal attached on both ends of the nut



Unit: mm

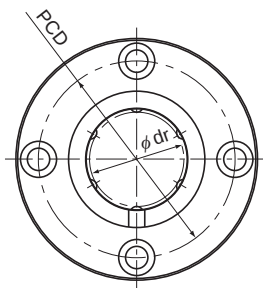
dimensions					Eccentricity (max) μm	Radial clearance tolerance μm	Basic load rating		Mass g
	L_1	Tolerance	L_2	D_0			C N	C_0 N	
	—	0 -0.3	—	—	10	-2	139	216	3
	—		—	—	10	-3	139	254	4
	20		1.1	9.6	10	-3	263	412	10
	27		1.1	11.5	15	-5	324	529	15
	35		1.1	14.3	15	-5	431	784	26
	44		1.3	18	15	-5	588	1100	48
	46		1.3	20	15	-5	657	1200	56
	46		1.3	22	15	-7	814	1570	75
	53		1.6	27	15	-7	1230	2350	147
	61		1.6	30.5	20	-9	1400	2750	163
	82	0 -0.4	1.85	38	20	-9	1560	3140	397
	89		1.85	43	20	-9	2490	5490	434
	99		2.1	49	25	-13	2650	6270	696
	121		2.1	57	25	-13	3430	8040	1087
	148		2.6	76.5	25	-13	6080	15900	2770
	170		3.15	86.5	25	-16	7650	20000	3340

Note) A stainless steel type (LM3ML to 30ML) is also available. Contact THK for details.

If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.

For further information, contact THK.

Model LMF



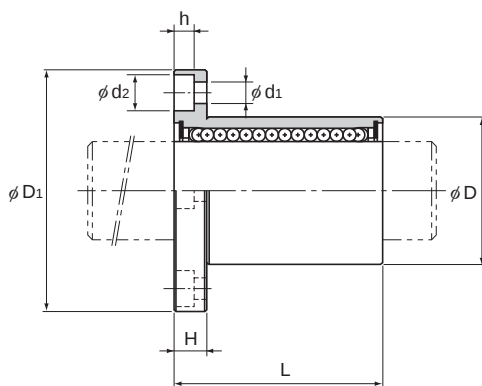
Model LMF

Model No.	Ball rows	Main dimensions							
		Inscribed bore diameter		Outer diameter		Length		Flange diameter	
		dr	Tolerance	D	Tolerance	L	Tolerance	D _i	Tolerance
LMF 6	4	6	0 -0.009	12	0 -0.011	19	0 -0.2	28	0 -0.2
LMF 8S	4	8		15		17		32	
LMF 8	4	8		15		24		32	
LMF 10	4	10		19	0 -0.013	29		39	
LMF 12	4	12		21		30		42	
LMF 13	4	13		23		32		43	
LMF 16	5	16	0 -0.010	28	0 -0.016	37	0 -0.3	48	0 -0.3
LMF 20	5	20		32		42		54	
LMF 25	6	25		40		59		62	
LMF 30	6	30	0 -0.012	45	0 -0.019	64		74	
LMF 35	6	35		52		70		82	
LMF 40	6	40		60		80		96	
LMF 50	6	50	0 -0.015	80	0 -0.022	100		116	
LMF 60	6	60		90		110		134	

Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.
If requiring a type equipped with a seal, indicate it when placing an order.

(Example) LMF25 UU

——— Seal attached on both ends of the nut

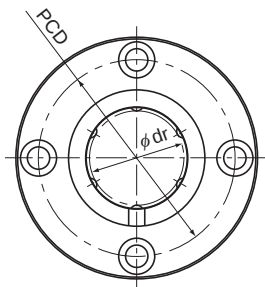


Unit: mm

			Mounting hole $d_1 \times d_2 \times h$	Flange perpendicularity	Eccentricity (max)	Radial clearance tolerance	Basic load rating		Mass g
				μm	μm	μm	C N	C_0 N	
	H	PCD							
	5	20	$3.4 \times 6.5 \times 3.3$	12	12	-5	206	265	23
	5	24	$3.4 \times 6.5 \times 3.3$	12	12	-5	176	225	29
	5	24	$3.4 \times 6.5 \times 3.3$	12	12	-5	265	402	33
	6	29	$4.5 \times 8 \times 4.4$	12	12	-5	373	549	59
	6	32	$4.5 \times 8 \times 4.4$	12	12	-5	412	598	68
	6	33	$4.5 \times 8 \times 4.4$	12	12	-7	510	775	80
	6	38	$4.5 \times 8 \times 4.4$	12	12	-7	775	1180	126
	8	43	$5.5 \times 9.2 \times 5.4$	15	15	-9	863	1370	160
	8	51	$5.5 \times 9.2 \times 5.4$	15	15	-9	980	1570	305
	10	60	$6.6 \times 11 \times 6.5$	15	15	-9	1570	2750	422
	10	67	$6.6 \times 11 \times 6.5$	20	20	-13	1670	3140	583
	13	78	$9 \times 14 \times 8.6$	20	20	-13	2160	4020	960
	13	98	$9 \times 14 \times 8.6$	20	20	-13	3820	7940	1920
	18	112	$11 \times 17.5 \times 10.8$	25	25	-13	4710	10000	2720

Note) If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.
For further information, contact THK.

Model LMF-M (Stainless Steel Type)



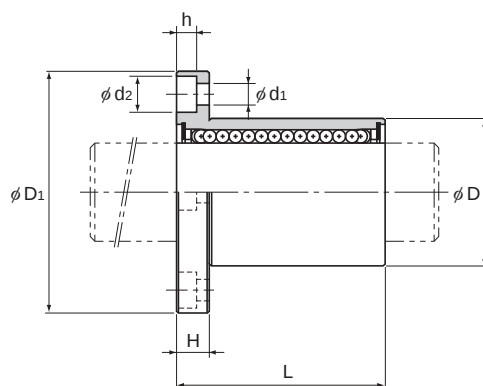
Model LMF-M

Model No.	Ball rows	Main dimensions							
		Inscribed bore diameter		Outer diameter		Length		Flange diameter	
		dr	Tolerance	D	Tolerance	L	Tolerance	D _i	Tolerance
LMF 6M	4	6	0 -0.009	12	0 -0.011	19	0 -0.2	28	0 -0.2
LMF 8SM	4	8		15		17		32	
LMF 8M	4	8		15		24		32	
LMF 10M	4	10		19	0 -0.013	29		39	
LMF 12M	4	12		21		30		42	
LMF 13M	4	13		23		32		43	
LMF 16M	5	16	0 -0.010	28	0 -0.016	37	0 -0.3	48	
LMF 20M	5	20		32		42		54	
LMF 25M	6	25		40		59		62	
LMF 30M	6	30		45		64		74	

Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.
If requiring a type equipped with a seal, indicate it when placing an order.

(Example) LMF20M UU

└── Seal attached on both ends of the nut

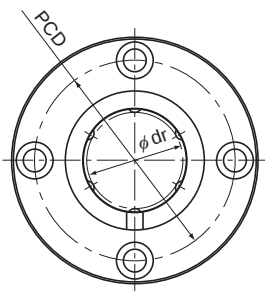


Unit: mm

			Mounting hole $d_1 \times d_2 \times h$	Flange perpendicularity	Eccentricity (max)	Radial clearance tolerance	Basic load rating		Mass g
				μm	μm	μm	C N	C ₀ N	
	H	PCD							
	5	20	3.4×6.5×3.3	12	12	-5	206	265	23
	5	24	3.4×6.5×3.3	12	12	-5	176	225	29
	5	24	3.4×6.5×3.3	12	12	-5	265	402	33
	6	29	4.5×8×4.4	12	12	-5	373	549	59
	6	32	4.5×8×4.4	12	12	-5	412	598	68
	6	33	4.5×8×4.4	12	12	-7	510	775	80
	6	38	4.5×8×4.4	12	12	-7	775	1180	126
	8	43	5.5×9.2×5.4	15	15	-9	863	1370	160
	8	51	5.5×9.2×5.4	15	15	-9	980	1570	305
	10	60	6.6×11×6.5	15	15	-9	1570	2750	422

Note) Since the nut and the balls use stainless steel, these models are highly resistant to corrosion and environment.
 If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.
 For further information, contact THK.

Model LMF-L



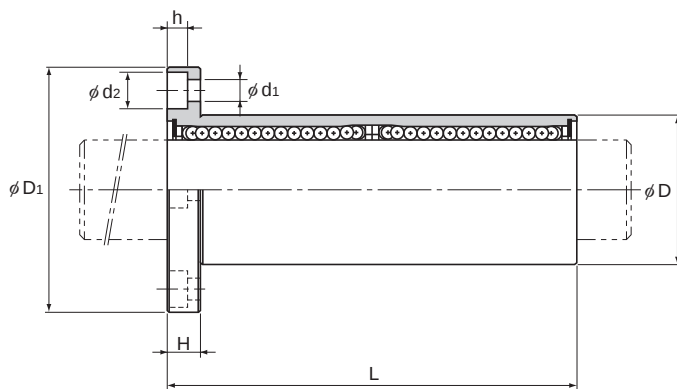
Model LMF-L

Model No. Standard type	Ball rows	Main dimensions							
		Inscribed bore diameter		Outer diameter		Length		Flange diameter	
		dr	Tolerance	D	Tolerance	L	Tolerance	D ₁	Tolerance
LMF 6L	4	6	0 −0.010	12	0	35	0 −0.3	28	0 −0.2
LMF 8L	4	8		15	−0.013	45		32	
LMF 10L	4	10		19	0 −0.016	55		39	
LMF 12L	4	12		21		57		42	
LMF 13L	4	13		23		61		43	
LMF 16L	5	16	0 −0.012	28	0 −0.019	70	0 −0.4	48	0 −0.3
LMF 20L	5	20		32		80		54	
LMF 25L	6	25		40		112		62	
LMF 30L	6	30		45	0 −0.022	123		74	
LMF 35L	6	35		52		135		82	
LMF 40L	6	40	0 −0.015	60		154	0 −0.4	96	0 −0.3
LMF 50L	6	50	0 −0.020	80	0 −0.025	192		116	
LMF 60L	6	60		90		211		134	

Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.
If requiring a type equipped with a seal, indicate it when placing an order.

(Example) LMF35L UU

└── Seal attached on both ends of the nut

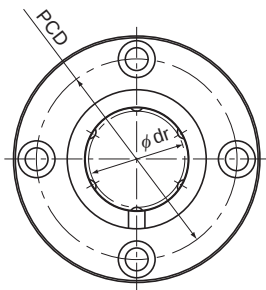


Unit: mm

				Flange perpendicularity	Eccentricity (max)	Radial clearance tolerance	Basic load rating		Mass
	H	PCD	Mounting hole $d_1 \times d_2 \times h$	μm	μm	μm	C N	C ₀ N	g
	5	20	3.4×6.5×3.3	15	15	-5	324	529	29
	5	24	3.4×6.5×3.3	15	15	-5	431	784	45
	6	29	4.5×8×4.4	15	15	-5	588	1100	81
	6	32	4.5×8×4.4	15	15	-5	657	1200	93
	6	33	4.5×8×4.4	15	15	-7	814	1570	115
	6	38	4.5×8×4.4	15	15	-7	1230	2350	194
	8	43	5.5×9.2×5.4	20	20	-9	1400	2750	250
	8	51	5.5×9.2×5.4	20	20	-9	1560	3140	500
	10	60	6.6×11×6.5	20	20	-9	2490	5490	646
	10	67	6.6×11×6.5	25	25	-13	2650	6270	930
	13	78	9×14×8.6	25	25	-13	3430	8040	1488
	13	98	9×14×8.6	25	25	-13	6080	15900	3268
	18	112	11×17.5×10.8	25	25	-13	7650	20000	4342

Note) If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.
For further information, contact THK.

Model LMF-ML (Stainless Steel Type)



Model LMF-ML

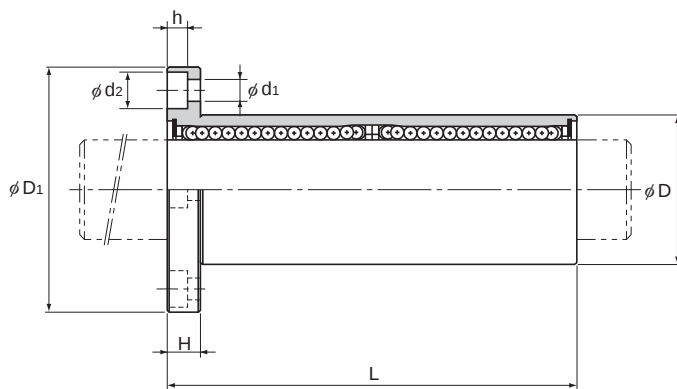
Model No. Standard type	Ball rows	Main dimensions							
		Inscribed bore diameter		Outer diameter		Length		Flange diameter	
		dr	Tolerance	D	Tolerance	L	Tolerance	D ₁	Tolerance
LMF 6ML	4	6	0 −0.010	12	0	35	0 −0.3	28	0 −0.2
LMF 8ML	4	8		15	−0.013	45		32	
LMF 10ML	4	10		19	0 −0.016	55		39	
LMF 12ML	4	12		21		57		42	
LMF 13ML	4	13		23		61		43	
LMF 16ML	5	16	0 −0.012	28	0 −0.019	70	0 −0.4	48	
LMF 20ML	5	20		32		80		54	
LMF 25ML	6	25		40		112		62	
LMF 30ML	6	30		45		123		74	

Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.

If requiring a type equipped with a seal, indicate it when placing an order.

(Example) LMF13ML UU

└── Seal attached on both ends of the nut

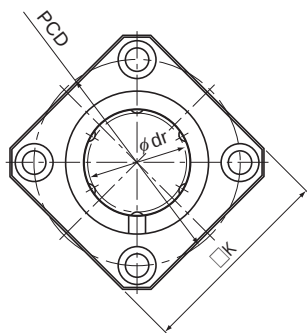


Unit: mm

	H	PCD	Mounting hole $d_1 \times d_2 \times h$	Flange perpendicularity	Eccentricity (max)	Radial clearance tolerance	Basic load rating		Mass
				μm	μm	μm	C N	C ₀ N	g
	5	20	3.4×6.5×3.3	15	15	-5	324	529	29
	5	24	3.4×6.5×3.3	15	15	-5	431	784	45
	6	29	4.5×8×4.4	15	15	-5	588	1100	81
	6	32	4.5×8×4.4	15	15	-5	657	1200	93
	6	33	4.5×8×4.4	15	15	-7	814	1570	115
	6	38	4.5×8×4.4	15	15	-7	1230	2350	194
	8	43	5.5×9.2×5.4	20	20	-9	1400	2750	250
	8	51	5.5×9.2×5.4	20	20	-9	1560	3140	500
	10	60	6.6×11×6.5	20	20	-9	2490	5490	646

Note) Since the nut and the balls use stainless steel, these models are highly resistant to corrosion and environment.
If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.
For further information, contact THK.

Model LMK



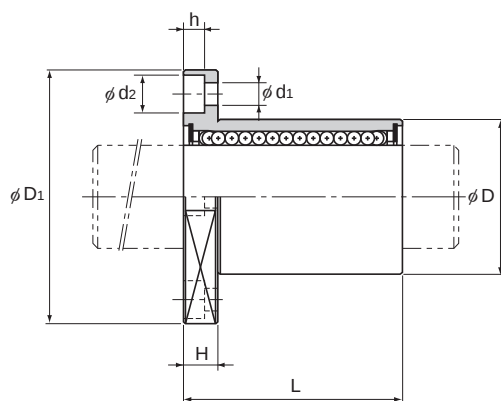
Model LMK

Model No.	Ball rows	Main dimensions							
		Inscribed bore diameter		Outer diameter		Length		Flange diameter	
		dr	Tolerance	D	Tolerance	L	Tolerance	Di	Tolerance
LMK 6	4	6	0 -0.009	12	0 -0.011	19	0 -0.2	28	0 -0.2
LMK 8S	4	8		15		17		32	
LMK 8	4	8		15		24		32	
LMK 10	4	10		19	0 -0.013	29		39	
LMK 12	4	12		21		30		42	
LMK 13	4	13	0 -0.010	23		32		43	
LMK 16	5	16		28	0 -0.016	37	0 -0.3	48	0 -0.3
LMK 20	5	20		32		42		54	
LMK 25	6	25		40		59		62	
LMK 30	6	30		45	0 -0.019	64		74	
LMK 35	6	35	0 -0.012	52		70		82	
LMK 40	6	40		60		80	0 -0.3	96	0 -0.3
LMK 50	6	50		80	0 -0.022	100		116	
LMK 60	6	60	0 -0.015	90		110		134	

Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.
If requiring a type equipped with a seal, indicate it when placing an order.

(Example) LMK13 UU

└── Seal attached on both ends of the nut

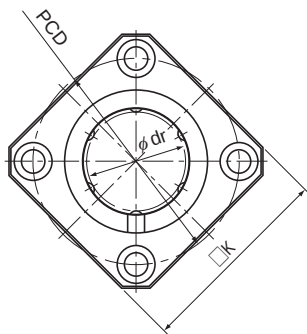


Unit: mm

				Mounting hole	Flange perpendicularity μm	Eccentricity (max) μm	Radial clearance tolerance μm	Basic load rating		Mass g
								C N	C ₀ N	
	K	H	PCD	d ₁ × d ₂ × h						
	22	5	20	3.4 × 6.5 × 3.3	12	12	-5	206	265	17
	25	5	24	3.4 × 6.5 × 3.3	12	12	-5	176	225	25
	25	5	24	3.4 × 6.5 × 3.3	12	12	-5	265	402	26
	30	6	29	4.5 × 8 × 4.4	12	12	-5	373	549	45
	32	6	32	4.5 × 8 × 4.4	12	12	-5	412	598	50
	34	6	33	4.5 × 8 × 4.4	12	12	-7	510	775	67
	37	6	38	4.5 × 8 × 4.4	12	12	-7	775	1180	105
	42	8	43	5.5 × 9.2 × 5.4	15	15	-9	863	1370	130
	50	8	51	5.5 × 9.2 × 5.4	15	15	-9	980	1570	270
	58	10	60	6.6 × 11 × 6.5	15	15	-9	1570	2750	344
	64	10	67	6.6 × 11 × 6.5	20	20	-13	1670	3140	487
	75	13	78	9 × 14 × 8.6	20	20	-13	2160	4020	790
	92	13	98	9 × 14 × 8.6	20	20	-13	3820	7940	1705
	106	18	112	11 × 17.5 × 10.8	25	25	-13	4710	10000	2278

Note) If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.
For further information, contact THK.

Model LMK-M (Stainless Steel Type)



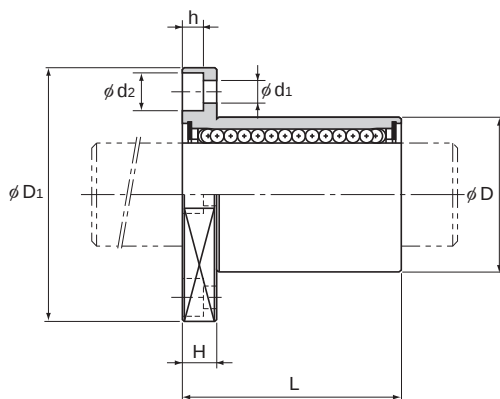
Model LMK-M

Model No.	Ball rows	Main dimensions							
		Inscribed bore diameter		Outer diameter		Length		Flange diameter	
		dr	Tolerance	D	Tolerance	L	Tolerance	Di	Tolerance
LMK 6M	4	6	0 -0.009	12	0 -0.011	19	0 -0.2	28	0 -0.2
LMK 8SM	4	8		15		17		32	
LMK 8M	4	8		15		24		32	
LMK 10M	4	10		19	0 -0.013	29		39	
LMK 12M	4	12		21		30		42	
LMK 13M	4	13		23		32		43	
LMK 16M	5	16	0 -0.010	28	0 -0.016	37	0 -0.3	48	
LMK 20M	5	20		32		42		54	
LMK 25M	6	25		40		59		62	
LMK 30M	6	30		45		64		74	

Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.
If requiring a type equipped with a seal, indicate it when placing an order.

(Example) LMK25M UU

└── Seal attached on both ends of the nut

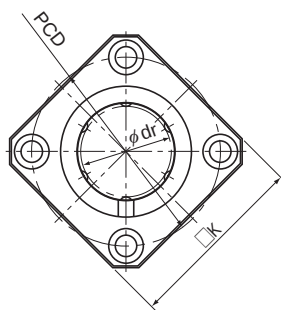


Unit: mm

				Mounting hole	Flange perpendicularity	Eccentricity (max)	Radial clearance tolerance	Basic load rating		Mass g
					μm	μm	μm	C N	C ₀ N	
	K	H	PCD	d ₁ × d ₂ × h						
	22	5	20	3.4 × 6.5 × 3.3	12	12	-5	206	265	17
	25	5	24	3.4 × 6.5 × 3.3	12	12	-5	176	225	25
	25	5	24	3.4 × 6.5 × 3.3	12	12	-5	265	402	26
	30	6	29	4.5 × 8 × 4.4	12	12	-5	373	549	45
	32	6	32	4.5 × 8 × 4.4	12	12	-5	412	598	50
	34	6	33	4.5 × 8 × 4.4	12	12	-7	510	775	67
	37	6	38	4.5 × 8 × 4.4	12	12	-7	775	1180	105
	42	8	43	5.5 × 9.2 × 5.4	15	15	-9	863	1370	130
	50	8	51	5.5 × 9.2 × 5.4	15	15	-9	980	1570	270
	58	10	60	6.6 × 11 × 6.5	15	15	-9	1570	2750	344

Note) Since the nut and the balls use stainless steel, these models are highly resistant to corrosion and environment.
 If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.
 For further information, contact THK.

Model LMK-L



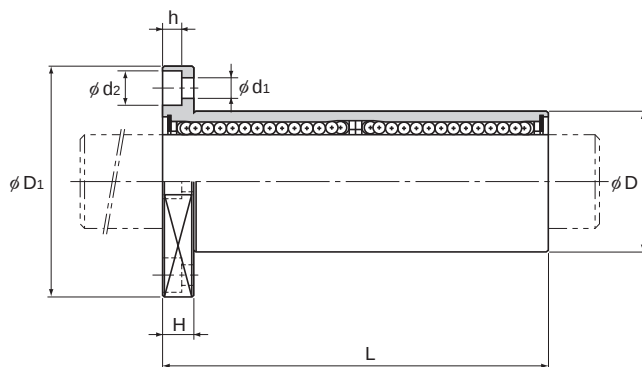
Model LMK-L

Model No. Standard type	Ball rows	Main dimensions							
		Inscribed bore diameter		Outer diameter		Length		Flange diameter	
		dr	Tolerance	D	Tolerance	L	Tolerance	D ₁	Tolerance
LMK 6L	4	6	0 -0.010	12	0	35	0 -0.3	28	0 -0.2
LMK 8L	4	8		15	-0.013	45		32	
LMK 10L	4	10		19	0 -0.016	55		39	
LMK 12L	4	12		21		57		42	
LMK 13L	4	13		23		61		43	
LMK 16L	5	16	0 -0.012	28	0 -0.019	70	0 -0.4	48	0 -0.3
LMK 20L	5	20		32		80		54	
LMK 25L	6	25		40		112		62	
LMK 30L	6	30		45	0 -0.022	123		74	
LMK 35L	6	35		52		135		82	
LMK 40L	6	40	0 -0.015	60		154	0 -0.4	96	0 -0.3
LMK 50L	6	50	0 -0.020	80	0 -0.025	192		116	
LMK 60L	6	60		90		211		134	

Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.
If requiring a type equipped with a seal, indicate it when placing an order.

(Example) LMK50L UU

└── Seal attached on both ends of the nut

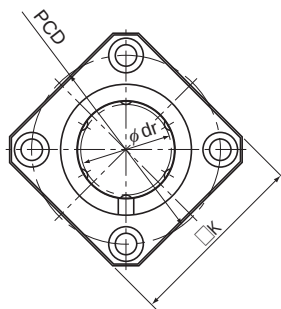


Unit: mm

	K	H	PCD	Mounting hole $d_1 \times d_2 \times h$	Flange perpendicularity	Eccentricity (max)	Radial clearance tolerance	Basic load rating		Mass
					μm	μm	μm	C N	C ₀ N	g
	22	5	20	$3.4 \times 6.5 \times 3.3$	15	15	-5	324	529	24
	25	5	24	$3.4 \times 6.5 \times 3.3$	15	15	-5	431	784	39
	30	6	29	$4.5 \times 8 \times 4.4$	15	15	-5	588	1100	68
	32	6	32	$4.5 \times 8 \times 4.4$	15	15	-5	657	1200	76
	34	6	33	$4.5 \times 8 \times 4.4$	15	15	-7	814	1570	100
	37	6	38	$4.5 \times 8 \times 4.4$	15	15	-7	1230	2350	176
	42	8	43	$5.5 \times 9.2 \times 5.4$	20	20	-9	1400	2750	210
	50	8	51	$5.5 \times 9.2 \times 5.4$	20	20	-9	1560	3140	466
	58	10	60	$6.6 \times 11 \times 6.5$	20	20	-9	2490	5490	569
	64	10	67	$6.6 \times 11 \times 6.5$	25	25	-13	2650	6270	825
	75	13	78	$9 \times 14 \times 8.6$	25	25	-13	3430	8040	1321
	92	13	98	$9 \times 14 \times 8.6$	25	25	-13	6080	15900	2952
	106	18	112	$11 \times 17.5 \times 10.8$	25	25	-13	7650	20000	3883

Note) If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.
For further information, contact THK.

Model LMK-ML (Stainless Steel Type)



Model LMK-ML

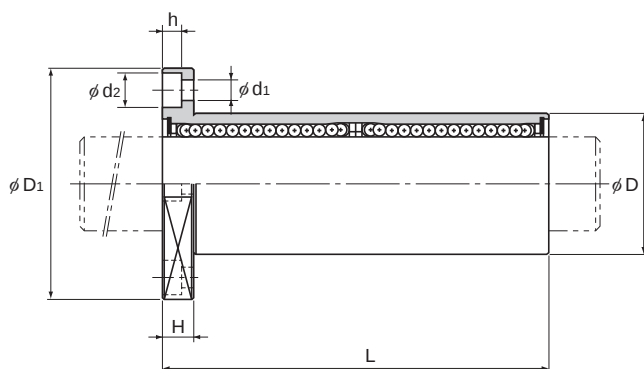
Model No. Standard type	Ball rows	Main dimensions							
		Inscribed bore diameter		Outer diameter		Length		Flange diameter	
		dr	Tolerance	D	Tolerance	L	Tolerance	D ₁	Tolerance
LMK 6ML	4	6	0 -0.010	12	0	35	0 -0.3	28	0 -0.2
LMK 8ML	4	8		15	-0.013	45		32	
LMK 10ML	4	10		19	0 -0.016	55		39	
LMK 12ML	4	12		21		57		42	
LMK 13ML	4	13		23		61		43	
LMK 16ML	5	16	0 -0.012	28	0 -0.019	70	0 -0.4	48	
LMK 20ML	5	20		32		80		54	
LMK 25ML	6	25		40		112		62	
LMK 30ML	6	30		45		123		74	

Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.

If requiring a type equipped with a seal, indicate it when placing an order.

(Example) LMK8ML UU

└── Seal attached on both ends of the nut

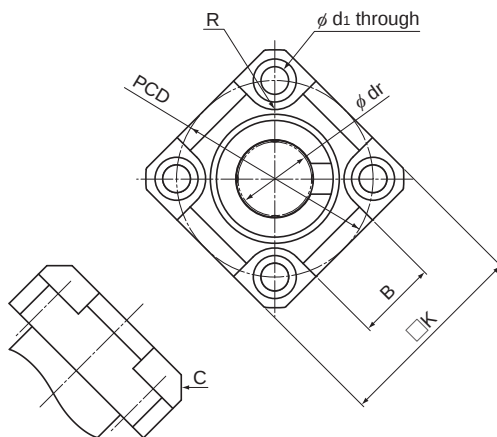


Unit: mm

	K	H	PCD	Mounting hole d ₁ ×d ₂ ×h	Flange perpendicularity	Eccentricity (max)	Radial clearance tolerance	Basic load rating		Mass g
					μm	μm	μm	C N	C ₀ N	
	22	5	20	3.4×6.5×3.3	15	15	-5	324	529	24
	25	5	24	3.4×6.5×3.3	15	15	-5	431	784	39
	30	6	29	4.5×8×4.4	15	15	-5	588	1100	68
	32	6	32	4.5×8×4.4	15	15	-5	657	1200	76
	34	6	33	4.5×8×4.4	15	15	-7	814	1570	100
	37	6	38	4.5×8×4.4	15	15	-7	1230	2350	176
	42	8	43	5.5×9.2×5.4	20	20	-9	1400	2750	210
	50	8	51	5.5×9.2×5.4	20	20	-9	1560	3140	466
	58	10	60	6.6×11×6.5	20	20	-9	2490	5490	569

Note) Since the nut and the balls use stainless steel, these models are highly resistant to corrosion and environment.
 If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.
 For further information, contact THK.

Model LMJK



Model LMJK

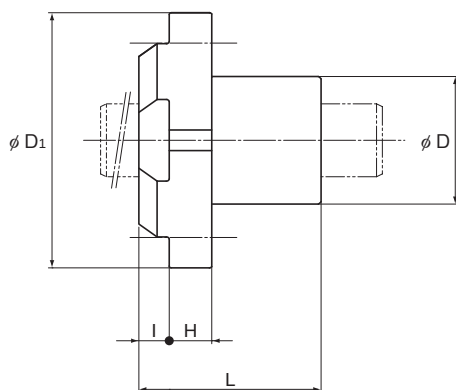
Model No.	Ball rows	Main dimensions							
		Inscribed bore diameter		Outer diameter		Length		Flange diameter	
		dr	Tolerance	D	Tolerance	L	Tolerance	D ₁	Tolerance
LMJK 8	4	8	0 -0.009	15	0 -0.011	24	0 -0.2	32	0 -0.2
LMJK 10	4	10		19	0 -0.013	29		39	
LMJK 12	4	12		21		30		42	
LMJK 16	5	16		28		37		48	
LMJK 20	5	20	0 -0.010	32	0 -0.016	42	0 -0.3	54	
LMJK 25	6	25		40		59		62	

Note) Includes synthetic resin; do not use in temperatures exceeding 80°C.

If seals must be attached, please specify when placing an order.

(Example) LMJK8 UU

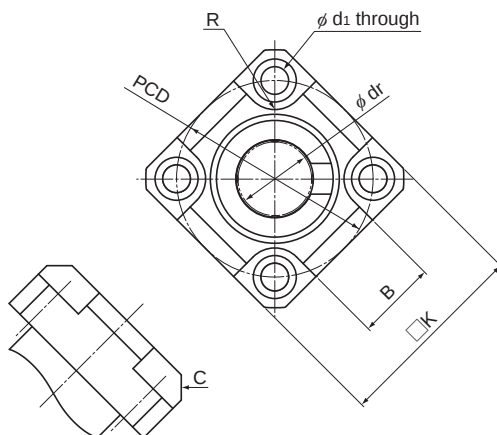
└── Seal attached on both ends of the nut



Unit: mm

									Flange perpendicularity	Eccentricity (max)	Radial clearance tolerance	Basic load rating		Mass g
	K	B	R	H	I	C	PCD	Mounting hole d ₁	μm	μm	μm	C N	C ₀ N	
	25	10	R4	6	4	C3	24	3.4	12	12	-5	265	402	20
	30	12	R5	7	5		29	4.5				373	549	35
	32	13					32					412	598	38
	37	18					38				-7	775	1180	88
	42	21					43		5.5	15		863	1370	104
	50	26	R6	10	6		51	-9			980	1570	234	

Model LMJK-L



Model LMJK-L

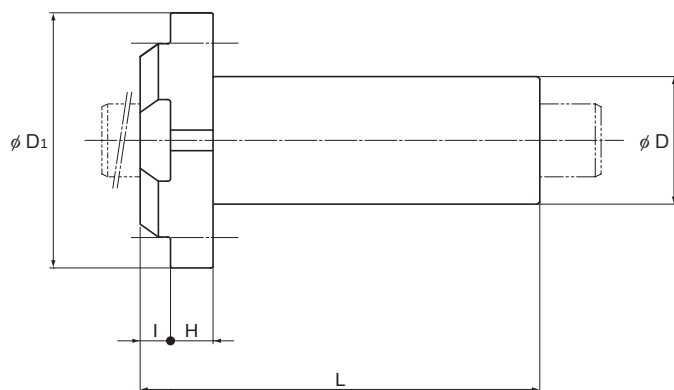
Model No.	Ball rows	Main dimensions							
		Inscribed bore diameter		Outer diameter		Length		Flange diameter	
		dr	Tolerance	D	Tolerance	L	Tolerance	D ₁	Tolerance
LMJK 8L	4	8	0 -0.010	15	0 -0.013	45	0 -0.3	32	0 -0.2
LMJK 10L	4	10		19	0 -0.016	55		39	
LMJK 12L	4	12		21		57		42	
LMJK 16L	5	16		28		70		48	
LMJK 20L	5	20	0 -0.012	32	0 -0.019	80	0 -0.4	54	
LMJK 25L	6	25		40		112		62	

Note) Includes synthetic resin; do not use in temperatures exceeding 80°C.

If seals must be attached, please specify when placing an order.

(Example) LMJK8L UU

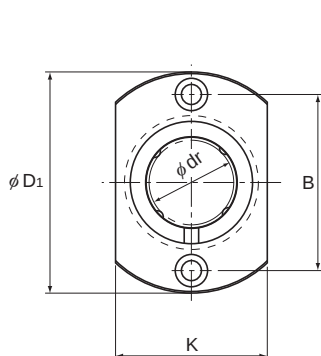
└── Seal attached on both ends of the nut



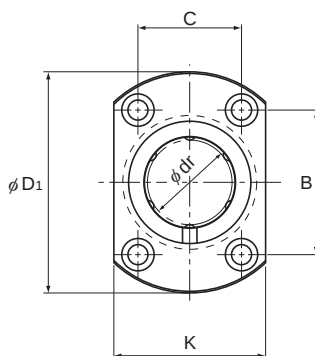
Unit: mm

									Flange perpendicularity	Eccentricity (max)	Radial clearance tolerance	Basic load rating		Mass g
	K	B	R	H	I	C	PCD	Mounting hole d ₁	μm	μm	μm	C N	C ₀ N	
	25	10	R4	6	4	C3	24	3.4	15	15	-5	431	784	32
	30	12	R5	7	5		29	4.5				588	1100	58
	32	13					657					1200	63	
	37	18					1230				2350	158		
	42	21					-7		1400	2750	182			
	50	26	R6	10	6			51	5.5	20	20	-9	1560	3140

Model LMH



Models LMH6 to 13



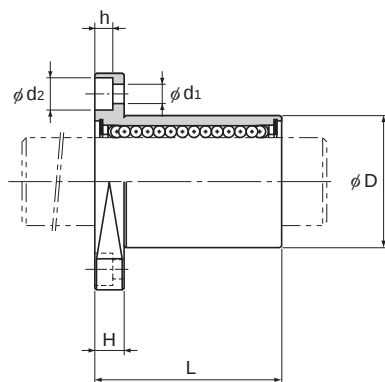
Models LMH16 to 30

Model No.	Ball rows	Main dimensions							
		Inscribed bore diameter		Outer diameter		Length		Flange diameter	
		dr	Tolerance	D	Tolerance	L	Tolerance	D ₁	Tolerance
LMH 6	4	6	0 -0.009	12	0 -0.011	19	0 -0.2	28	0 -0.2
LMH 8S	4	8		15		17		32	
LMH 8	4	8		15		24		32	
LMH 10	4	10		19	0 -0.013	29		39	
LMH 12	4	12		21		30		42	
LMH 13	4	13		23		32		43	
LMH 16	5	16	0 -0.010	28	0 -0.016	37	0 -0.3	48	
LMH 20	5	20		32		42		54	
LMH 25	6	25		40		59		62	
LMH 30	6	30		45		64		74	

Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.
If requiring a type equipped with a seal, indicate it when placing an order.

(Example) LMH16 UU

_____ Seal attached on both ends of the nut

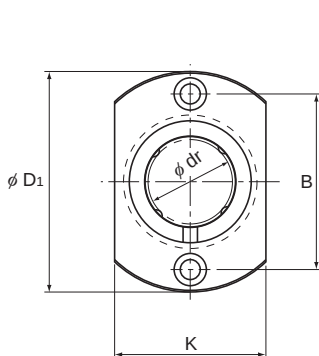


Unit: mm

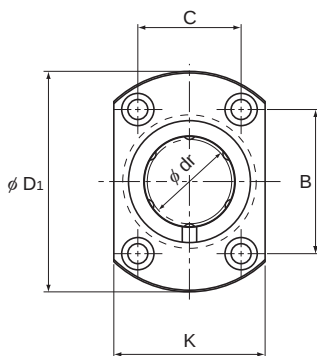
	K	H	B	C	Mounting hole $d_1 \times d_2 \times h$	Flange perpendicularity	Eccentricity (max)	Radial clearance tolerance	Basic load rating		Mass
						μm	μm	μm	C N	C ₀ N	
	18	5	20	—	$3.4 \times 6.5 \times 3.3$	12	12	-5	206	265	20
	21	5	24	—	$3.4 \times 6.5 \times 3.3$	12	12	-5	176	225	24
	21	5	24	—	$3.4 \times 6.5 \times 3.3$	12	12	-5	265	402	28
	25	6	29	—	$4.5 \times 8 \times 4.4$	12	12	-5	373	549	50
	27	6	32	—	$4.5 \times 8 \times 4.4$	12	12	-5	412	598	56
	29	6	33	—	$4.5 \times 8 \times 4.4$	12	12	-7	510	775	69
	34	6	31	22	$4.5 \times 8 \times 4.4$	12	12	-7	775	1180	111
	38	8	36	24	$5.5 \times 9.2 \times 5.4$	15	15	-9	863	1370	140
	46	8	40	32	$5.5 \times 9.2 \times 5.4$	15	15	-9	980	1570	279
	51	10	49	35	$6.6 \times 11 \times 6.5$	15	15	-9	1570	2750	351

Note) If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.
For further information, contact THK.

Model LMH-M (Stainless Steel Type)



Models LMH 6M to 13M



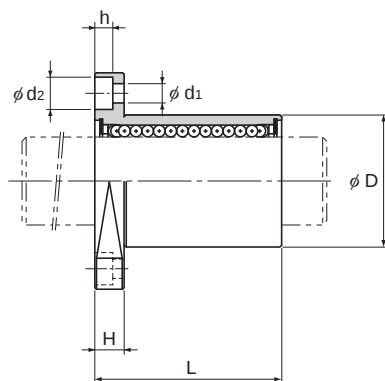
Models LMH 16M to 30M

Model No.	Ball rows	Main dimensions							
		Inscribed bore diameter		Outer diameter		Length		Flange diameter	
		dr	Tolerance	D	Tolerance	L	Tolerance	D ₁	Tolerance
LMH 6M	4	6	0 -0.009	12	0 -0.011	19	0 -0.2	28	0 -0.2
LMH 8SM	4	8		15		17		32	
LMH 8M	4	8		15		24		32	
LMH 10M	4	10		19	0 -0.013	29		39	
LMH 12M	4	12		21		30		42	
LMH 13M	4	13		23		32		43	
LMH 16M	5	16	0 -0.010	28	0 -0.016	37	0 -0.3	48	
LMH 20M	5	20		32		42		54	
LMH 25M	6	25		40		59		62	
LMH 30M	6	30		45		64		74	

Note) Since this model contains a synthetic resin retainer, do not use it in temperatures exceeding 80°C.
If an equipped seal is required, please specify when placing an order.

(Example) LMH16M UU

└── Seal attached on both ends of the nut

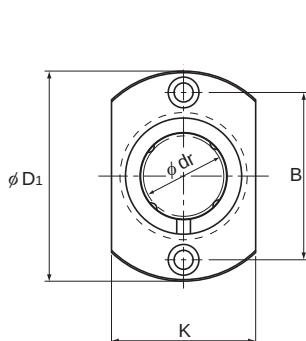


Unit: mm

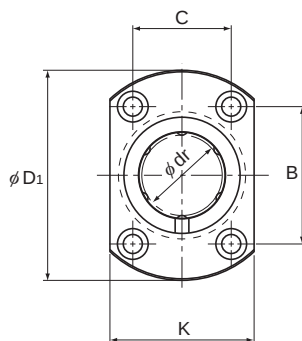
	K	H	B	C	Mounting hole $d_1 \times d_2 \times h$	Flange perpendicularity	Eccentricity (max)	Radial clearance tolerance	Basic load rating		Mass g
						μm	μm	μm	C N	C ₀ N	
	18	5	20	—	$3.4 \times 6.5 \times 3.3$	12	12	-5	206	265	20
	21	5	24	—	$3.4 \times 6.5 \times 3.3$	12	12	-5	176	225	24
	21	5	24	—	$3.4 \times 6.5 \times 3.3$	12	12	-5	265	402	28
	25	6	29	—	$4.5 \times 8 \times 4.4$	12	12	-5	373	549	50
	27	6	32	—	$4.5 \times 8 \times 4.4$	12	12	-5	412	598	56
	29	6	33	—	$4.5 \times 8 \times 4.4$	12	12	-7	510	775	69
	34	6	31	22	$4.5 \times 8 \times 4.4$	12	12	-7	775	1180	111
	38	8	36	24	$5.5 \times 9.2 \times 5.4$	15	15	-9	863	1370	140
	46	8	40	32	$5.5 \times 9.2 \times 5.4$	15	15	-9	980	1570	279
	51	10	49	35	$6.6 \times 11 \times 6.5$	15	15	-9	1570	2750	351

Note) Since the nut and the balls use stainless steel, these models are highly resistant to corrosion and environment.
If oil holes are required, please specify by adding OH to the end of the model number.
For further information, contact THK.

Model LMH-L



Models LMH6L to 13L



Models LMH16L to 30L

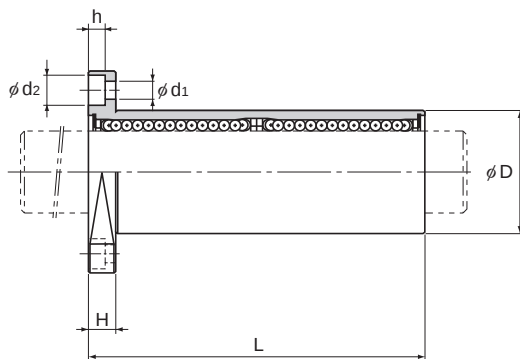
Model No.	Ball rows	Main dimensions							
		Inscribed bore diameter		Outer diameter		Length		Flange diameter	
		dr	Tolerance	D	Tolerance	L	Tolerance	D ₁	Tolerance
LMH 6L	4	6	0 -0.010	12	0	35	0 -0.3	28	0 -0.2
LMH 8L	4	8		15	-0.013	45		32	
LMH 10L	4	10		19	0 -0.016	55		39	
LMH 12L	4	12		21		57		42	
LMH 13L	4	13		23		61		43	
LMH 16L	5	16	0 -0.012	28	0 -0.019	70	0 -0.4	48	
LMH 20L	5	20		32		80		54	
LMH 25L	6	25		40		112		62	
LMH 30L	6	30		45		123		74	

Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.

If requiring a type equipped with a seal, indicate it when placing an order.

(Example) LMH20L UU

└── Seal attached on both ends of the nut

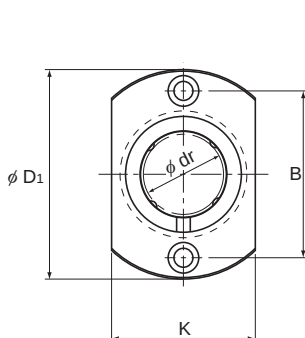


Unit: mm

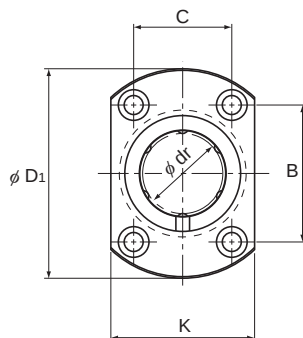
		K	H	B	C	Mounting hole $d_1 \times d_2 \times h$	Flange perpendicularity	Eccentricity (max)	Radial clearance tolerance	Basic load rating		Mass g
							μm	μm	μm	C N	C ₀ N	
		18	5	20	—	3.4×6.5×3.3	15	15	−5	324	529	27
		21	5	24	—	3.4×6.5×3.3	15	15	−5	431	784	41
		25	6	29	—	4.5×8×4.4	15	15	−5	588	1100	72
		27	6	32	—	4.5×8×4.4	15	15	−5	657	1200	81
		29	6	33	—	4.5×8×4.4	15	15	−7	814	1570	105
		34	6	31	22	4.5×8×4.4	15	15	−7	1230	2350	182
		38	8	36	24	5.5×9.2×5.4	20	20	−9	1400	2750	217
		46	8	40	32	5.5×9.2×5.4	20	20	−9	1560	3140	477
		51	10	49	35	6.6×11×6.5	20	20	−9	2490	5490	575

Note) If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.
For further information, contact THK.

Model LMH-ML (Stainless Steel Type)



Models LMH 6ML to 13ML



Models LMH 16ML to 30ML

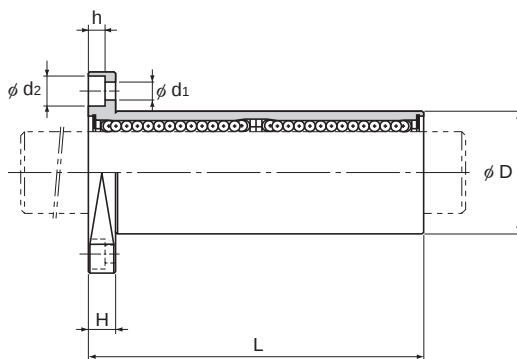
Model No.	Ball rows	Main dimensions							
		Inscribed bore diameter		Outer diameter		Length		Flange diameter	
		dr	Tolerance	D	Tolerance	L	Tolerance	D ₁	Tolerance
LMH 6ML	4	6	0 -0.010	12	0	35	0 -0.3	28	0 -0.2
LMH 8ML	4	8		15	-0.013	45		32	
LMH 10ML	4	10		19	0 -0.016	55		39	
LMH 12ML	4	12		21		57		42	
LMH 13ML	4	13		23		61		43	
LMH 16ML	5	16	0 -0.012	28	0 -0.019	70	0 -0.4	48	
LMH 20ML	5	20		32		80		54	
LMH 25ML	6	25		40		112		62	
LMH 30ML	6	30		45		123		74	

Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.

If an equipped seal is required, please specify when placing an order.

(Example) LMH20ML UU

└── Seal attached on both ends of the nut

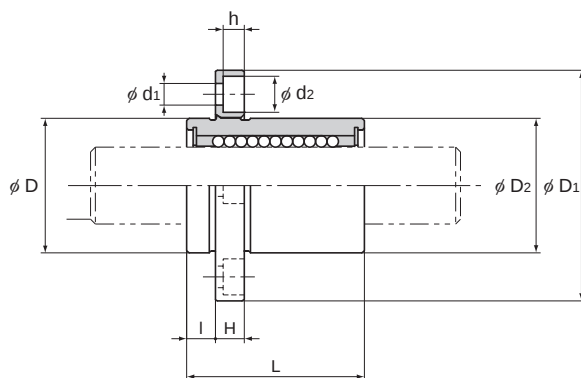


Unit: mm

		K	H	B	C	Mounting hole $d_1 \times d_2 \times h$	Flange perpendicularity	Eccentricity (max)	Radial clearance tolerance	Basic load rating		Mass g
							μm	μm	μm	C N	C ₀ N	
		18	5	20	—	3.4×6.5×3.3	15	15	-5	324	529	27
		21	5	24	—	3.4×6.5×3.3	15	15	-5	431	784	41
		25	6	29	—	4.5×8×4.4	15	15	-5	588	1100	72
		27	6	32	—	4.5×8×4.4	15	15	-5	657	1200	81
		29	6	33	—	4.5×8×4.4	15	15	-7	814	1570	105
		34	6	31	22	4.5×8×4.4	15	15	-7	1230	2350	182
		38	8	36	24	5.5×9.2×5.4	20	20	-9	1400	2750	217
		46	8	40	32	5.5×9.2×5.4	20	20	-9	1560	3140	477
		51	10	49	35	6.6×11×6.5	20	20	-9	2490	5490	575

Note) Since the nut and the balls use stainless steel, these models are highly resistant to corrosion and environment.
If oil holes are required, please specify by adding OH to the end of the model number.
For further information, contact THK.

Model LMIF



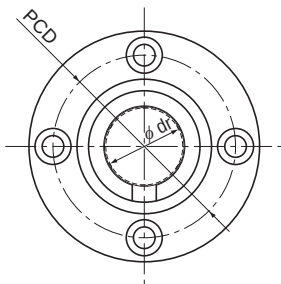
Model LMIF

Model No.	Ball rows	Main dimensions							
		Inscribed bore diameter		Outer diameter		Overall length		Flange diameter	
		dr	Tolerance	D	Tolerance	L	Tolerance	D ₁	Tolerance
LMIF 6	4	6	0 -0.009	12	0	19	±0.3	28	0 -0.2
LMIF 8		8		15	-0.011	24		32	
LMIF 10		10		19	0 -0.013	29		39	
LMIF 12		12		21		30		42	
LMIF 13		13		23		32		43	
LMIF 16	5	16	0 -0.010	28	0 -0.016	37		48	
LMIF 20		20		32		42		54	
LMIF 25	6	25		40		59		62	

Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.
If requiring a type equipped with a seal, indicate it when placing an order.

(Example) LMIF16 UU

_____ Seal attached on both ends of the nut

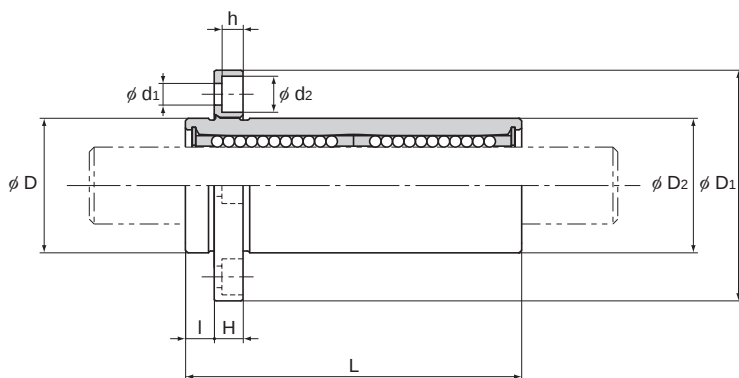


Unit: mm

						Flange perpendicularity	Eccentricity (max)	Radial clearance tolerance	Basic Load Rating		Mass
	Length		D ₂	H	PCD				Mounting hole d. × d ₂ × h	C	
	I	Tolerance				N	N	g			
5	±0.2	12	5	20	3.4×6×3.3	12	12	-5	206	265	24
		15	24	12		-5		265	402	34	
6		19	6	29	4.5×7.5×4.4	12		-5	373	549	61
		21		32		12		-5	412	598	69
		23		33		12		-7	510	775	81
		28		38		12		-7	775	1180	125
8		32	8	43	5.5×9×5.4	15	15	-9	863	1370	166
		40		51		15		-9	980	1570	305

Note) If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.
For further information, contact THK.

Model LMIF-L



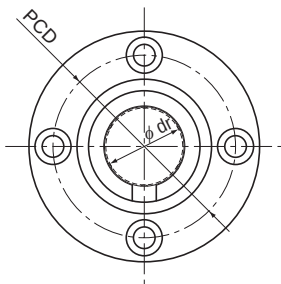
Model LMIF-L

Model No. Standard Type	Ball rows	Main dimensions							
		Inscribed bore diameter		Outer diameter		Overall length		Flange diameter	
		dr	Tolerance	D	Tolerance	L	Tolerance	D ₁	Tolerance
LMIF 6L	4	6	0 -0.010	12	0	35	±0.3	28	0 -0.2
LMIF 8L		8		15	-0.013	45		32	
LMIF 10L		10		19	0 -0.016	55		39	
LMIF 12L		12		21		57		42	
LMIF 13L	5	13	0 -0.012	23		61		43	
LMIF 16L		16		28		70		48	
LMIF 20L		20		32	0	80		54	
LMIF 25L	6	25		40	-0.019	112		62	

Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.
If requiring a type equipped with a seal, indicate it when placing an order.

(Example) LMIF16L UU

└── Seal attached on both ends of the nut

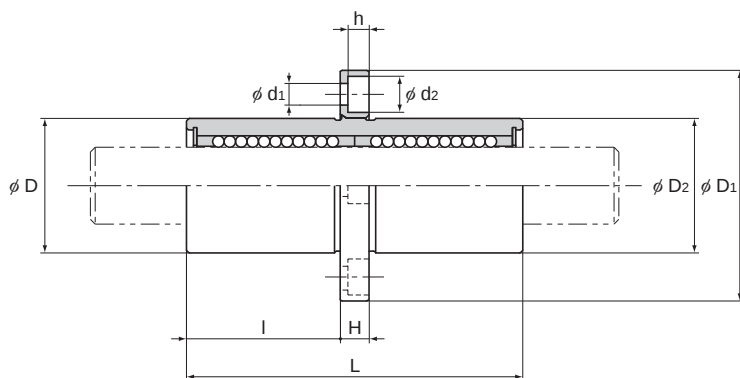


Unit: mm

						Flange	Eccentricity	Radial	Basic Load			
Length					Mounting hole	perpendicularity	(max)	clearance	Rating			
	I	Tolerance	D ₂	H	PCD	d ₁ × d ₂ × h	μm	μm	μm	C	C ₀	Mass
										N	N	g
5	±0.2	12	5	20	3.4×6×3.3	12	12	-5	324	529	30	
		15	24	12		-5		431	784	46		
19		6	29	4.5×7.5×4.4	12	-5		588	1100	83		
21			32		12	-5		657	1200	95		
23			33		12	-7		814	1570	117		
28			38		12	-7		1230	2350	196		
8		32	8	43	5.5×9×5.4	15	15	-9	1400	2750	244	
		40	51	15		-9		1560	3140	498		

Note) If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.
For further information, contact THK.

Model LMCF-L



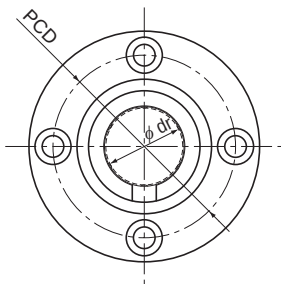
Model LMCF-L

Model No. Standard Type	Ball rows	Main dimensions							
		Inscribed bore diameter		Outer diameter		Overall length		Flange diameter	
		dr	Tolerance	D	Tolerance	L	Tolerance	D ₁	Tolerance
LMCF 6L	4	6	0 -0.010	12	0	35	±0.3	28	0 -0.2
LMCF 8L		8		15	-0.013	45		32	
LMCF 10L		10		19	0 -0.016	55		39	
LMCF 12L		12		21		57		42	
LMCF 13L		13		23		61		43	
LMCF 16L	5	16	0	28	0	70	±0.3	48	0 -0.2
LMCF 20L		20		32		80		54	
LMCF 25L	6	25	-0.012	40	-0.019	112	±0.3	62	

Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.
If requiring a type equipped with a seal, indicate it when placing an order.

(Example) LMCF16L UU

_____ Seal attached on both ends of the nut

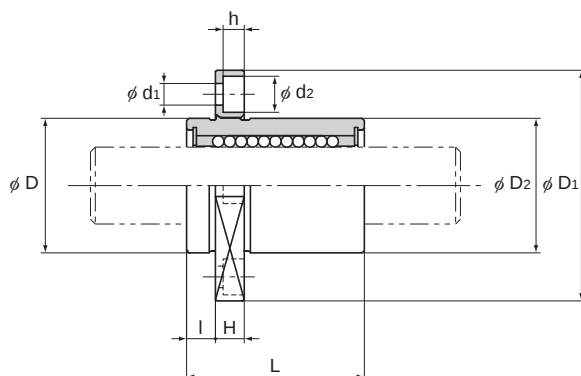


Unit: mm

						Flange perpendicularity	Eccentricity (max)	Radial clearance tolerance	Basic Load Rating		Mass
Length		D ₂	H	PCD	Mounting hole d ₁ × d ₂ × h	μm	μm	μm	C	C ₀	g
I	Tolerance								N	N	
15	±0.2	12	5	20	3.4 × 6 × 3.3	12	12	-5	324	529	30
20		15		24		12		-5	431	784	46
24.5		19		29		12		-5	588	1100	83
25.5		21	6	32	4.5 × 7.5 × 4.4	12		-5	657	1200	95
27.5		23		33		12		-7	814	1570	117
32		28		38		12		-7	1230	2350	196
36		32	8	43	5.5 × 9 × 5.4	15	15	-9	1400	2750	244
52		40		51		15		-9	1560	3140	498

Note) If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.
For further information, contact THK.

Model LMIK



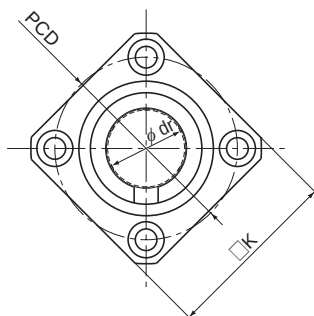
Model LMIK

Model No. Standard Type	Ball rows	Main dimensions							
		Inscribed bore diameter		Outer diameter		Overall length		Flange diameter	
		dr	Tolerance	D	Tolerance	L	Tolerance	D ₁	Tolerance
LMIK 6	4	6	0 -0.009	12	0	19	±0.3	28	0 -0.2
LMIK 8		8		15	-0.011	24		32	
LMIK 10		10		19	0 -0.013	29		39	
LMIK 12		12		21		30		42	
LMIK 13		13		23		32		43	
LMIK 16	5	16	0 -0.010	28	0 -0.016	37		48	
LMIK 20		20		32		42		54	
LMIK 25	6	25		40		59		62	

Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.
If requiring a type equipped with a seal, indicate it when placing an order.

(Example) LMIK16 UU

└ Seal attached on both ends of the nut

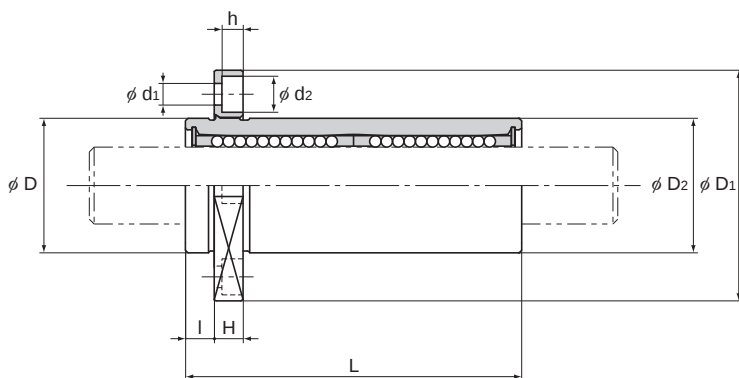


Unit: mm

							Flange perpendicularity	Eccentricity (max)	Radial clearance tolerance	Basic Load Rating		Mass
	Length		D ₂	H	K	PCD				Mounting hole d ₁ ×d ₂ ×h	C	
	I	Tolerance					N	N	g			
5	±0.2	12	5	22	20	3.4×6×3.3	12	12	-5	206	265	18
		15		25	24		12		-5	265	402	27
6		19	6	30	29	4.5×7.5×4.4	12		-5	373	549	46
		21		32	32		12		-5	412	598	52
		23		34	33		12		-7	510	775	65
		28		37	38		12		-7	775	1180	104
8		32	8	42	43	5.5×9×5.4	15	15	-9	863	1370	131
		40		50	51		15		-9	980	1570	267

Note) If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.
For further information, contact THK.

Model LMIK-L



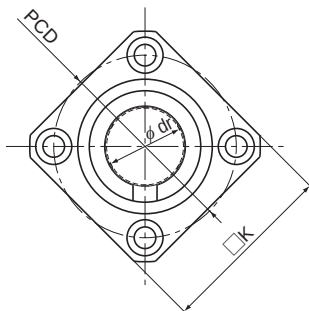
Model LMIK-L

Model No. Standard Type	Ball rows	Main dimensions							
		Inscribed bore diameter		Outer diameter		Overall length		Flange diameter	
		dr	Tolerance	D	Tolerance	L	Tolerance	D ₁	Tolerance
LMIK 6L	4	6	0 -0.010	12	0	35	±0.3	28	0 -0.2
LMIK 8L		8		15	-0.013	45		32	
LMIK 10L		10		19	0 -0.016	55		39	
LMIK 12L		12		21		57		42	
LMIK 13L	5	13	0 -0.012	23		61		43	
LMIK 16L		16		28		70		48	
LMIK 20L		20		32	0	80		54	
LMIK 25L	6	25		40	-0.019	112		62	

Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.
If requiring a type equipped with a seal, indicate it when placing an order.

(Example) LMIK16L UU

└ Seal attached on both ends of the nut

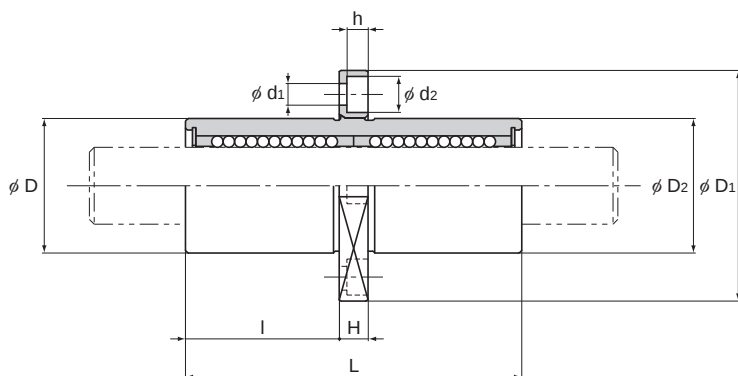


Unit: mm

								Flange	Eccentricity	Radial	Basic Load				
	Length						Mounting hole	perpendicularity	(max)	clearance	Rating				
	I	Tolerance	D ₂	H	K	PCD	d ₁ ×d ₂ ×h	μm	μm	μm	C	C ₀	Mass		
											N	N	g		
	5	±0.2	12	5	22	20	3.4×6×3.3	12	12	-5	324	529	25		
			15		25	24		12		-5	431	784	39		
	6		19	6	30	29	4.5×7.5×4.4	12		-5	588	1100	69		
			21		32	32		12		-5	657	1200	78		
			23		34	33		12		-7	814	1570	101		
			28		37	38		12		-7	1230	2350	174		
	8		32	8	42	43	5.5×9×5.4	15		15	-9	1400	2750	210	
			40		50	51		15			-9	1560	3140	461	

Note) If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.
For further information, contact THK.

Model LMCK-L



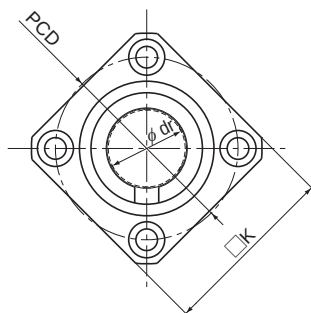
Model LMCK-L

Model No. Standard Type	Ball rows	Main dimensions							
		Inscribed bore diameter		Outer diameter		Overall length		Flange diameter	
		dr	Tolerance	D	Tolerance	L	Tolerance	D ₁	Tolerance
LMCK 6L	4	6	0 -0.010	12	0	35	±0.3	28	0 -0.2
LMCK 8L		8		15	-0.013	45		32	
LMCK 10L		10		19	0 -0.016	55		39	
LMCK 12L		12		21		57		42	
LMCK 13L		13		23		61		43	
LMCK 16L	5	16	0 -0.012	28	0 -0.019	70	±0.3	48	0 -0.2
LMCK 20L		20		32		80		54	
LMCK 25L	6	25	-0.012	40	-0.019	112	±0.3	62	

Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.
If requiring a type equipped with a seal, indicate it when placing an order.

(Example) LMCK16L UU

Seal attached on both ends of the nut

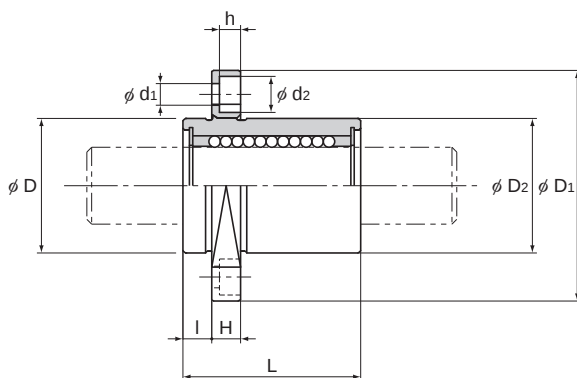


Unit: mm

							Flange perpendicularity	Eccentricity (max)	Radial clearance tolerance	Basic Load Rating		Mass
Length		D ₂	H	K	PCD	Mounting hole d ₁ ×d ₂ ×h	μm	μm	μm	C N	C ₀ N	g
I	Tolerance											
15	±0.2	12	5	22	20	3.4×6×3.3	12	12	-5	324	529	25
20		15		25	24		12		-5	431	784	39
24.5		19		30	29	4.5×7.5×4.4	12		-5	588	1100	69
25.5		21	6	32	32		12		-5	657	1200	78
27.5		23		34	33		12		-7	814	1570	101
32		28		37	38		12		-7	1230	2350	174
36		32	8	42	43	5.5×9×5.4	15	15	-9	1400	2750	210
52		40		50	51		15		-9	1560	3140	461

Note) If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.
For further information, contact THK.

Model LMIH



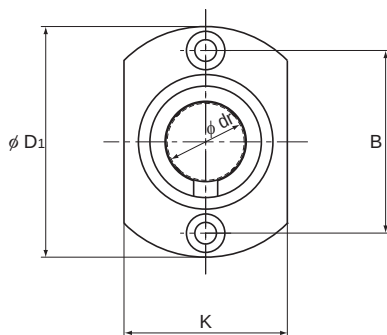
Model LMIH

Model No. Standard Type	Ball rows	Main dimensions							
		Inscribed bore diameter		Outer diameter		Overall length		Flange diameter	
		dr	Tolerance	D	Tolerance	L	Tolerance	D ₁	Tolerance
LMIH 6	4	6	0 -0.009	12	0	19	±0.3	28	0 -0.2
LMIH 8		8		15	-0.011	24		32	
LMIH 10		10		19	0 -0.013	29		39	
LMIH 12		12		21		30		42	
LMIH 13		13		23		32		43	
LMIH 16	5	16	0 -0.010	28	0 -0.016	37		48	
LMIH 20		20		32		42		54	
LMIH 25	6	25		40		59		62	

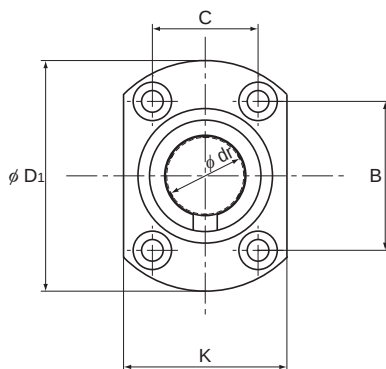
Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.
If requiring a type equipped with a seal, indicate it when placing an order.

(Example) LMIH16 UU

└ Seal attached on both ends of the nut



Models LMIH 6 to 13



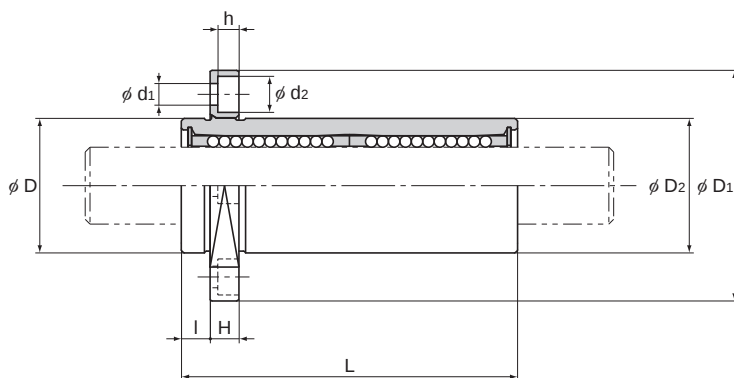
Models LMIH 16 to 25

Unit: mm

								Flange perpendicularity	Eccentricity (max)	Radial clearance tolerance	Basic Load Rating		Mass		
	Length						Mounting hole				C	C ₀			
	I	Tolerance	D ₂	H	K	B	C	d ₁ ×d ₂ ×h	μm	μm	μm	N	N	g	
5	±0.2	12	5	18	20	—	3.4×6×3.3	12	12	12	−5	206	265	20	
		15		21	24	—		12			−5	265	402	29	
19		6	25	29	—	4.5×7.5×4.4	12	12			12	−5	373	549	50
21			27	32	—		12					−5	412	598	57
23			29	33	—		12					−7	510	775	70
28			34	31	22		12					−7	775	1180	111
8		32	8	38	36	24	5.5×9×5.4	15	15	15	−9	863	1370	140	
		40		46	40	32		15			−9	980	1570	276	

Note) If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.
For further information, contact THK.

Model LMIH-L



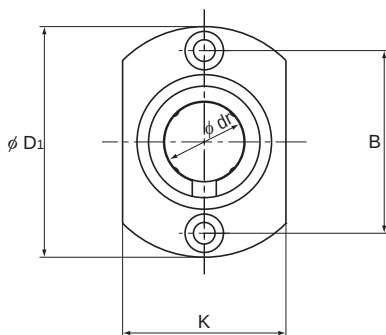
Model LMIH-L

Model No. Standard Type	Ball rows	Main dimensions							
		Inscribed bore diameter		Outer diameter		Overall length		Flange diameter	
		dr	Tolerance	D	Tolerance	L	Tolerance	D ₁	Tolerance
LMIH 6L	4	6	0 -0.010	12	0	35	±0.3	28	0 -0.2
LMIH 8L		8		15	-0.013	45		32	
LMIH 10L		10		19	0 -0.016	55		39	
LMIH 12L		12		21		57		42	
LMIH 13L		13		23		61		43	
LMIH 16L	5	16	0	28	0	70	±0.3	48	0 -0.2
LMIH 20L		20		32		80		54	
LMIH 25L	6	25	-0.012	40	-0.019	112	±0.3	62	

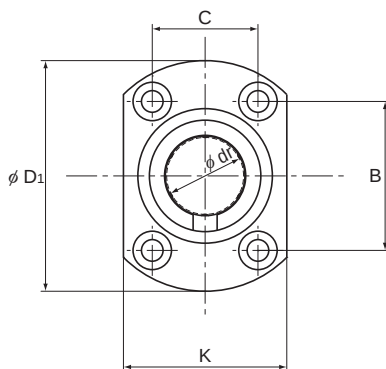
Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.
If requiring a type equipped with a seal, indicate it when placing an order.

(Example) LMIH16L UU

└ Seal attached on both ends of the nut



Models LMIH 6L to 13L



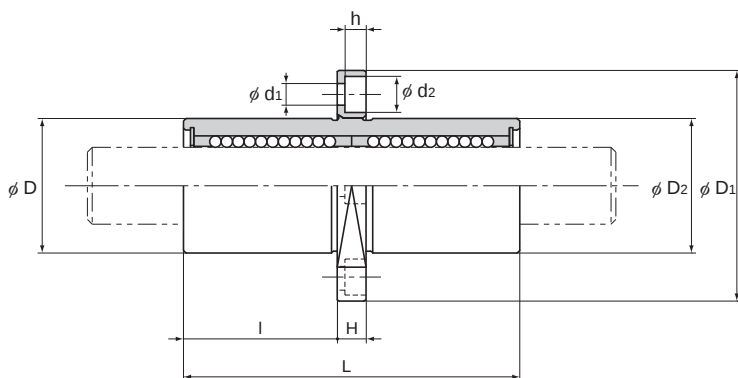
Models LMIH 16L to 25L

Unit: mm

								Flange perpendicularity	Eccentricity (max)	Radial clearance tolerance	Basic Load Rating		Mass	
	Length						Mounting hole				C	C ₀		
	I	Tolerance	D ₂	H	K	B	C	d ₁ ×d ₂ ×h	μm	μm	μm	N	N	g
	5	±0.2	12	5	18	20	—	3.4×6×3.3	12	12	—5	324	529	26
			15		21	24	—		12		—5	431	784	41
6	19		6	25	29	—	4.5×7.5×4.4	12	—5		588	1100	73	
	21			27	32	—		12	—5		657	1200	83	
	23			29	33	—		12	—7		814	1570	106	
	28			34	31	22		12	—7		1230	2350	180	
8	32		8	38	36	24	5.5×9×5.4	15	15	—9	1400	2750	219	
	40			46	40	32		15		—9	1560	3140	470	

Note) If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.
For further information, contact THK.

Model LMCH-L



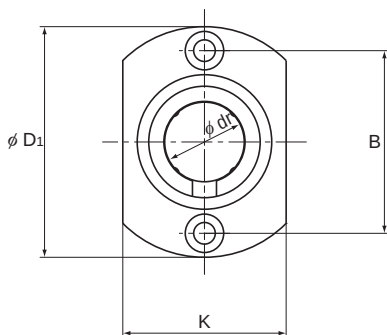
Model LMCH-L

Model No.	Ball rows	Main dimensions							
		Inscribed bore diameter		Outer diameter		Overall length		Flange diameter	
		dr	Tolerance	D	Tolerance	L	Tolerance	D ₁	Tolerance
LMCH 6L	4	6	0 -0.010	12	0	35	±0.3	28	0 -0.2
LMCH 8L		8		15	-0.013	45		32	
LMCH 10L		10		19	0 -0.016	55		39	
LMCH 12L		12		21		57		42	
LMCH 13L		13		23		61		43	
LMCH 16L	5	16	0 -0.012	28	0 -0.019	70		48	
LMCH 20L		20		32		80		54	
LMCH 25L	6	25		40		112		62	

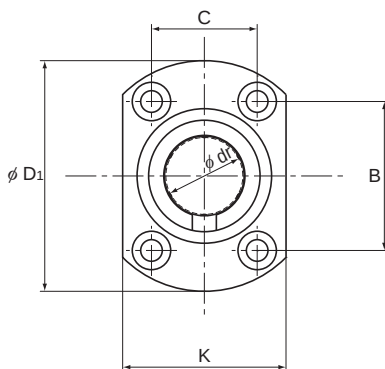
Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.
If requiring a type equipped with a seal, indicate it when placing an order.

(Example) LMCH16L UU

Seal attached on both ends of the nut



Models LMCH 6L to 13L



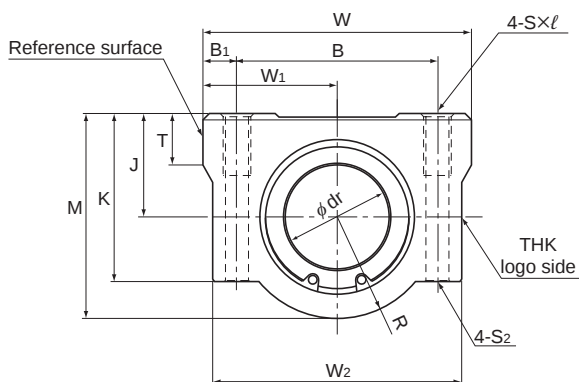
Models LMCH 16L to 25L

Unit: mm

									Flange perpendicularity	Eccentricity (max)	Radial clearance tolerance	Basic Load Rating		Mass
Length		D ₂	H	K	B	C	Mounting hole d ₁ × d ₂ × h		μm	μm	μm	C	C ₀	g
I	Tolerance											N	N	
15	±0.2	12	5	18	20	—	3.4 × 6 × 3.3		12	12	-5	324	529	26
20		15		21	24	—			12		-5	431	784	41
24.5		19		25	29	—	4.5 × 7.5 × 4.4		12		-5	588	1100	73
25.5		21	6	27	32	—			12		-5	657	1200	83
27.5		23		29	33	—			12		-7	814	1570	106
32		28		34	31	22			12		-7	1230	2350	180
36		32	8	38	36	24	5.5 × 9 × 5.4		15	15	-9	1400	2750	219
52		40		46	40	32			15		-9	1560	3140	470

Note) If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.
For further information, contact THK.

Models SC6 to 30



Models SC6 to 30

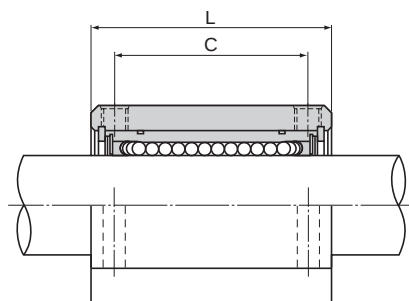
Model No.	Outer dimensions			LM casing dimensions						
	Height	Width	Length	Mounting hole position			Tap	Through bolt	Center height	W ₁ ±0.02
	M	W	L	B	B ₁	C	S×l	model No, S ₂	J ±0.02	
SC 6UU	18	30	25	20	5	15	M4×8	M3	9	15
SC 8UU	22	34	30	24	5	18	M4×8	M3	11	17
SC 10UU	26	40	35	28	6	21	M5×12	M4	13	20
SC 12UU	29	42	36	30.5	5.75	26	M5×12	M4	15	21
SC 13UU	30	44	39	33	5.5	26	M5×12	M4	15	22
SC 16UU	38.5	50	44	36	7	34	M5×12	M4	19	25
SC 20UU	42	54	50	40	7	40	M6×12	M5	21	27
SC 25UU	51.5	76	67	54	11	50	M8×18	M6	26	38
SC 30UU	59.5	78	72	58	10	58	M8×18	M6	30	39

Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.

A stainless steel Linear Bushing model LM-MG, which is highly corrosion resistant, can also be incorporated at your request.

Example of Model Number for Use in Combination with
Linear Bushing Units

Linear Bushing to be combined	Example of model No.	
Both end attached with seal	SC 13UU	Standard stock
Without seal	SC 13	Build to order
Made of stainless steel; both end attached with seal	SC 13MUU	Build to order

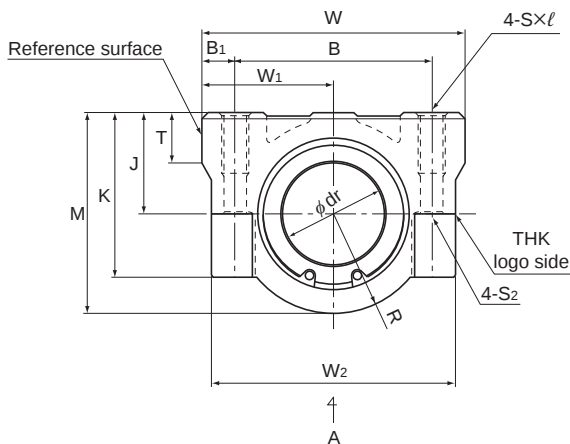


Unit: mm

							Model No. of Linear Bushing to be combined	Basic load rating		Unit
	K	W ₂	T	R	Inscribed bore diameter			C	C ₀	Mass
					dr	Tolerance				
	15	28	6	9	6	0 -0.009	LM6UU	206	265	34
	18	32	6	11	8		LM8UU	265	402	52
	22	37	8	13	10		LM10UU	373	549	92
	25	39	8	14	12		LM12UU	412	598	102
	26	41	8	15	13		LM13UU	510	775	123
	35	46	9	19.5	16		LM16UU	775	1180	189
	36	52	11	21	20	0 -0.010	LM20UU	863	1370	237
	41	68	12	25.5	25		LM25UU	980	1570	555
	49	72	15	29.5	30		LM30UU	1570	2750	685

Note) If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.
For further information, contact THK.

Models SC35 to 50



Models SC35 to 50

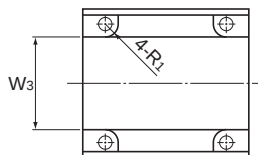
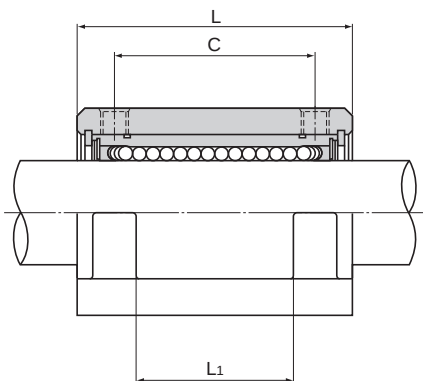
Model No.	Outer dimensions			LM casing dimensions							
	Height	Width	Length	Mounting hole position			Tap	Through bolt	Center height J	W_1	K
	M	W	L	B	B_1	C	$S \times \ell$	model No., S $_2$	± 0.02	± 0.02	
SC 35UU	68	90	80	70	10	60	M8 $\times$ 18	M6	34	45	54
SC 40UU	78	102	90	80	11	60	M10 $\times$ 25	M8	40	51	62
SC 50UU	102	122	110	100	11	80	M10 $\times$ 25	M8	52	61	80

Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.

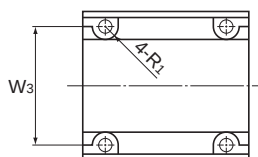
A stainless steel Linear Bushing model LM-MG, which is highly corrosion resistant, can also be incorporated at your request.
(Model SC50 does not include a stainless type.)

Example of Model Number for Use in Combination with
Linear Bushing Units

Linear Bushing to be combined	Example of model No.	
Both end attached with seal	SC 40UU	Standard stock
Without seal	SC 40	Build to order
Made of stainless steel; both end attached with seal	SC 40MUU	Build to order



A arrow view Model SC35



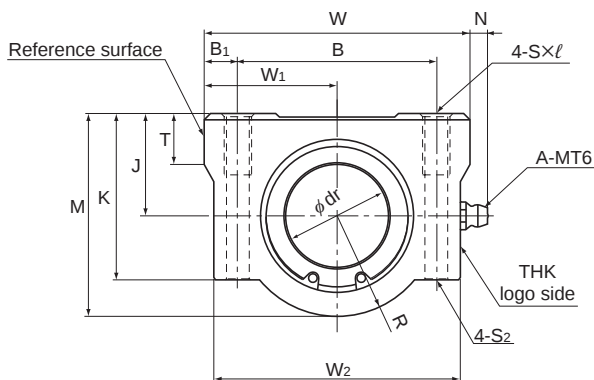
A arrow view Model SC40 and SC60

Unit: mm

									Model No. of Linear Bushing to be combined	Basic load rating		Unit
								Inscribed bore diameter		C	C ₀	Mass
	W ₂	W ₃	L ₁	T	R	R ₁	dr	Tolerance		N	N	g
	85	60	42	18	34	5	35	0 -0.012	LM35UU	1670	3140	1100
	96	80	44	20	38	8	40		LM40UU	2160	4020	1600
	116	100	64	25	50	8	50		LM50UU	3820	7940	3350

Note) If an oil hole is required, this can be indicated by appending "OH" to the end of the model number.
For further information, contact THK.

Model SL



Model SL

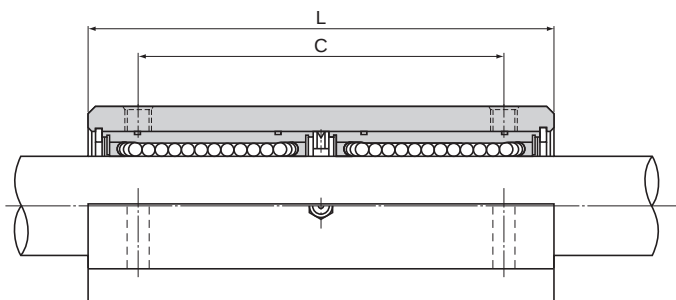
Model No.	Outer dimensions			LM casing dimensions						
	Height	Width	Length	Mounting hole position			Tap	Through bolt	Center height	W ₁ ±0.02
	M	W	L	B	B ₁	C	S × l	model No, S ₂	J ±0.02	
SL 6UU	18	30	48	20	5	36	M4 × 8	M3	9	15
SL 8UU	22	34	58	24	5	42	M4 × 8	M3	11	17
SL 10UU	26	40	68	28	6	46	M5 × 12	M4	13	20
SL 12UU	29	42	70	30.5	5.75	50	M5 × 12	M4	15	21
SL 13UU	30	44	75	33	5.5	50	M5 × 12	M4	15	22
SL 16UU	38.5	50	85	36	7	60	M5 × 12	M4	19	25
SL 20UU	42	54	96	40	7	70	M6 × 12	M5	21	27
SL 25UU	51.5	76	130	54	11	100	M8 × 18	M6	26	38
SL 30UU	59.5	78	140	58	10	110	M8 × 18	M6	30	39

Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.

A stainless steel Linear Bushing model LM-MG, which is highly corrosion resistant, can also be incorporated at your request.

Example of Model Number for Use in Combination with
Linear Bushing Units

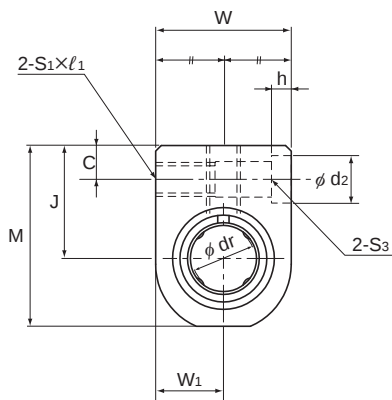
Linear Bushing to be combined	Example of model No.	
Both end attached with seal	SL 13UU	Standard stock
Without seal	SL 13	Build to order
Made of stainless steel; both end attached with seal	SL 13MUU	Build to order



Unit: mm

								Model No. of Linear Bushing to be combined	Basic load rating		Unit
	K	W ₂	T	R	N	Inscribed bore diameter			C	C ₀	Mass
						dr	Tolerance				
	15	28	6	9	7	6	0 -0.009	LM6U	324	529	68
	18	32	6	11	7	8		LM8U	431	784	105
	22	37	8	13	7	10		LM10U	588	1100	185
	25	39	8	14	6.5	12		LM12U	657	1200	205
	26	41	8	15	6.5	13		LM13U	814	1570	242
	35	46	9	19.5	6	16		LM16U	1230	2350	403
	36	52	11	21	7	20	0 -0.010	LM20U	1400	2750	520
	41	68	12	25.5	4	25		LM25U	1560	3140	1120
	49	72	15	29.5	5	30		LM30U	2490	5490	1440

Model SH



Model SH

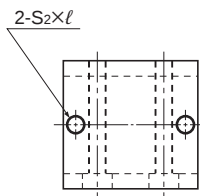
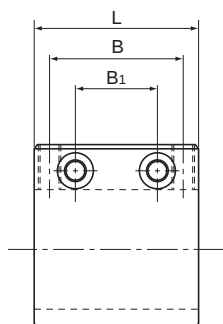
Model No.	Outer dimensions			LM casing dimensions					
	Height	Width	Length	Mounting hole position			Tap		Through bolt
	M	W	L	B	B ₁	C	S ₁ × l ₁	S ₂ × l	model No, S ₃
SH 3UU	14	10	13	—	8	3	M3×6	M3×5.5	M2
SH 4UU	16	12	15	—	10	3	M3×6	M3×6	M2
SH 5UU	18	14	17	—	12	3	M3×6	M3×6	M2
SH 6UU	22	16	24	18	9	5	M4×8	M4×8	M3
SH 8UU	26	20	27	20	10	5	M4×8	M5×8.5	M3
SH 10UU	32	26	35	27	15	6	M5×10	M6×9.5	M4
SH 12UU	34	28	35	27	15	6	M5×10	M6×9.5	M4
SH 13UU	36	30	36	28	16	6	M5×10	M6×9.5	M4
SH 16UU	42	36	40	32	18	6	M5×10	M6×10	M4
SH 20UU	49	42	44	36	22	7	M6×12	M6×12	M5

Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.

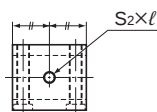
A stainless steel Linear Bushing model LM-MG, which is highly corrosion resistant, can also be incorporated at your request.

Example of Model Number for Use in Combination with Linear Bushing Units

Linear Bushing to be combined	Example of model No.	
Both end attached with seal	SH 13UU	Standard stock
Without seal	SH 13	Build to order
Made of stainless steel; both end attached with seal	SH 13MUU	Build to order



Top surface of models SH6 to SH20

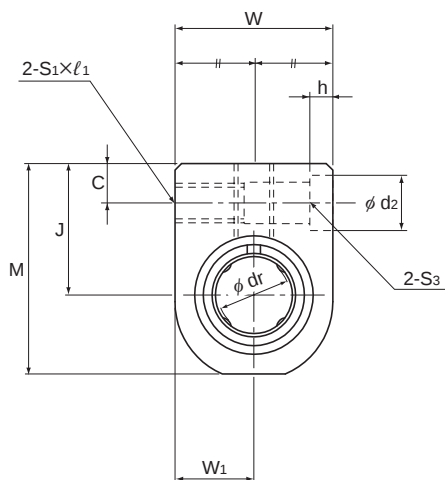


Top surface of models SH3 to SH5

Unit: mm

							Model No. of Linear Bushing to be combined	Basic load rating		Unit
	Center height J ±0.02	W _i ±0.02	d ₂	h	Inscribed bore diameter			C	C ₀	Mass
					dr	Tolerance				
								N	N	g
	9	5	4.2	1.5	3	0 -0.008	LM3UU	88.2	108	4.5
	10	6	4.2	1.5	4		LM4UU	88.2	127	7
	11	7	4.2	1.5	5		LM5UU	167	206	11
	14	8	6.5	3.3	6		LM6UU	206	265	21
	16	10	6.5	3.3	8	0 -0.009	LM8UU	265	402	34
	19	13	8	4.4	10		LM10UU	373	549	67
	20	14	8	4.4	12		LM12UU	412	598	74
	21	15	8	4.4	13		LM13UU	510	775	91
	24	18	8	4.4	16		LM16UU	775	1180	157
	28	21	9.5	5.4	20		0 -0.010	LM20UU	863	1370

Model SH-L



Model SH-L

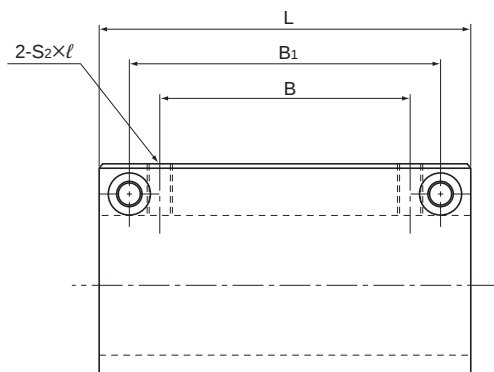
Model No.	Outer dimensions			LM casing dimensions					
	Height	Width	Length	Mounting hole position			Tap		Through bolt
	M	W	L	B	B ₁	C	S ₁ ×ℓ ₁	S ₂ ×ℓ	model No, S ₃
SH 3LUU	14	10	23	10	18	3	M3×6	M3×5.5	M2
SH 4LUU	16	12	27	14	22	3	M3×6	M3×6	M2
SH 5LUU	18	14	32	18	26	3	M3×6	M3×6	M2
SH 6LUU	22	16	40	20	30	5	M4×8	M4×8	M3
SH 8LUU	26	20	52	30	42	5	M4×8	M5×8.5	M3
SH 10LUU	32	26	60	36	50	6	M5×10	M6×9.5	M4
SH 12LUU	34	28	62	36	50	6	M5×10	M6×9.5	M4
SH 13LUU	36	30	66	40	54	6	M5×10	M6×9.5	M4
SH 16LUU	42	36	76	52	66	6	M5×10	M6×10	M4
SH 20LUU	49	42	86	58	72	7	M6×12	M6×12	M5

Note) Since this model contains a synthetic resin retainer, do not use it at temperature exceeding 80°C.

A stainless steel Linear Bushing model LM-MG, which is highly corrosion resistant, can also be incorporated at your request.

Example of Model Number for Use in Combination with Linear Bushing Units

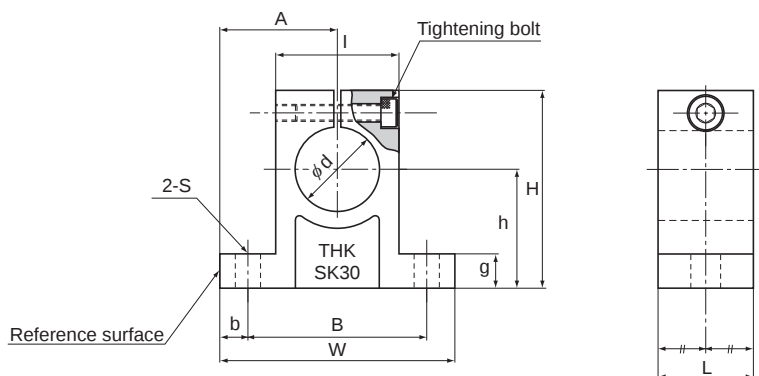
Linear Bushing to be combined	Example of model No.	
Both end attached with seal	SH 13LUU	Standard stock
Without seal	SH 13L	Build to order
Made of stainless steel; both end attached with seal	SH 13MLUU	Build to order



Unit: mm

							Model No. of Linear Bushing to be combined	Basic load rating		Unit
	Center height J ±0.02	W _i ±0.02	d ₂	h	Inscribed bore diameter			C N	C ₀ N	Mass g
					dr	Tolerance				
	9	5	4.2	1.5	3	0 -0.008	LM3U	139	216	8.6
	10	6	4.2	1.5	4		LM4U	139	254	14
	11	7	4.2	1.5	5		LM5U	263	412	22
	14	8	6.5	3.3	6		LM6U	324	529	37
	16	10	6.5	3.3	8	0 -0.009	LM8U	431	784	68
	19	13	8	4.4	10		LM10U	588	1100	125
	20	14	8	4.4	12		LM12U	657	1200	140
	21	15	8	4.4	13		LM13U	814	1570	176
	24	18	8	4.4	16		LM16U	1230	2350	309
	28	21	9.5	5.4	20	0 -0.010	LM20U	1400	2750	413

Model SK



Unit: mm

Model No.	Main dimensions													Mass g
	H	W	L	B	S	Mounting bolt model No.	h ±0.02	A ±0.05	b	g	l	Shaft diameter d	Tightening bolt model No.	
SK 10	32.8	42	14	32	5.5	M5	20	21	5	6	18	10	M4	24
SK 12	37.5	42	14	32	5.5	M5	23	21	5	6	20	12	M4	30
SK 13	37.5	42	14	32	5.5	M5	23	21	5	6	20	13	M4	30
SK 16	44	48	16	38	5.5	M5	27	24	5	8	25	16	M4	40
SK 20	51	60	20	45	6.6	M6	31	30	7.5	10	30	20	M5	70
SK 25	60	70	24	56	6.6	M6	35	35	7	12	38	25	M6	130
SK 30	70	84	28	64	9	M8	42	42	10	12	44	30	M6	180
SK 35	83	98	32	74	11	M10	50	49	12	15	50	35	M8	270
SK 40	96	114	36	90	11	M10	60	57	12	15	60	40	M8	420

Standard LM Shafts

THK manufactures high quality, dedicated LM shafts for linear bushings.

(1) [Major materials]

SUJ2 (high-carbon chromium bearing steel)

THK5SP (THK standard material)

SUS440C equivalent

[Hardness] 58 to 64 HRC (SUJ2, THK5SP), 56 HRC or above (SUS440C or equivalent)

[Hardened layer depth] 0.8 to 2.5 mm (varies with shaft diameter)

[Surface roughness] Ra 0.4 or less

[Straightness of the LM shaft] 50 μ m/300 mm or less

(2) Precision-grade LM shafts with shaft diameter tolerance of g5 or h5 are also manufactured as standard.



Unit: mm

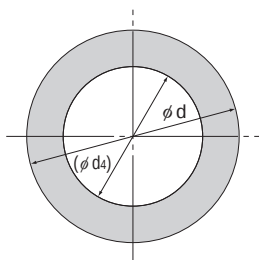
Model No.	Shaft diameter		Manufactured length L	
	d	Tolerance g6 μ m	Min length	Max length
SF 3	3	-2 -8	20	400
SF 4	4	-4 -12	20	400
SF 5	5		20	500
SF 6	6		20	1500
SF 8	8	-5 -14	20	1500
SF 10	10		30	1500
SF 12	12		30	1500
SF 13	13	-6 -17	30	1500
SF 16	16		40	3000
SF 20	20		40	3000
SF 25	25	-7 -20	50	3000
SF 30	30		60	3000
SF 35	35		70	3000
SF 38*	38	-9 -25	100	3000
SF 40	40		100	3000
SF 50	50		100	3000
SF 60*	60	-10 -29	200	3000
SF 80*	80		200	3000
SF 100*	100		200	3000

Note)*Made to order

[Dimensions of Hollow LM Shafts]

If a hollow LM shaft is required for purposes such as weight reduction, use the desired material from Table1 for the dimensions of hollow LM shafts that THK keeps in stock.

Table1 Dimensions of Hollow LM Shafts Unit: mm



Supported model numbers	LM shaft outer diameter d	Inner diameter (ϕd_1)	Mass (kg/m)	
			Solid shaft	Hollow shaft
LM 8	8	3	0.4	0.34
LM 10	10	4	0.62	0.52
LM 12	12	6	0.89	0.67
LM 13	13	7	1.05	0.75
LM 16	16	9	1.59	1.09
LM 20	20	10	2.47	1.86
LM 20	20	14	2.47	1.26
LM 25	25	15	3.86	2.47
LM 30	30	16	5.56	3.98
LM 35	35	20	7.57	5.1
* LM 38	38	22	8.92	5.93
LM 40	40	22	9.88	6.89
LM 50	50	25	15.5	11.6
LM 60	60	32	22.3	16.0
* LM 80	80	52.5	39.6	22.5
* LM 100	100	67.5	61.8	33.7

Models marked with “*” are build-to-order items.

Model number coding

SF25 g6 -500L K

Model number

LM shaft outer diameter tolerance

Overall LM shaft length (in mm)

Special symbol*

no symbol: solid shaft K: standard hollow shaft
M: special material F: with surface treatment

*If two or more symbols are given, they are shown in an alphabetical order.

Specially Machined Types

THK also supports special machining processes such as tapping, milling, threading, through hole and end journals, as shown in the Fig.1 , at your request.

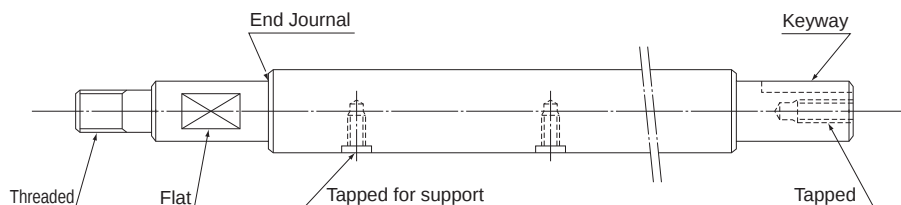


Fig.1

Dedicated Shafts

As the dedicated shafts for linear bushings come into direct contact with the ball bearings, the manufacturing tolerances for hardness, surface roughness, and the dimensional precision of the shaft are tight.

When manufacturing dedicated shafts, the surface hardness of the shaft will have a large impact on the overall service life. Check the following material and heat treatment specifications.

[Material]

Generally, the following materials are used for surface hardening through induction-hardening.

- SUJ2 (JIS G 4805: high-carbon chromium bearing steel)
- SK3 to 6 (JIS G 4401: carbon tool steel)
- S55C (JIS G 4051: carbon steel for machine structural use)

For special applications, martensite stainless steel SUS440C, which is corrosion resistant, may also be used.

[Hardness]

We recommend surface hardness of 58 HRC (≈ 653 HV) or higher. The depth of the hardened layer is determined by the size of the Linear Bushing; we recommend approximately 2 mm for general use.

[Surface Roughness]

To achieve smooth motion, the surface should preferably be finished to Ra0.40 or less.

Table of Rows of Balls and Masses for Clearance-adjustable Types and Open Types of the Linear Bushing

Shaft diameter	Clearance-adjustable Type			Open Type		
	Model No.	Rows of balls	Mass g	Model No.	Rows of balls	Mass g
6	LM 6-AJ	4	7.8	—	—	—
8	LM 8S-AJ	4	10	—	—	—
	LM 8-AJ	4	14.7	—	—	—
10	LM 10-AJ	4	29	—	—	—
12	LM 12-AJ	4	31	—	—	—
13	LM 13-AJ	4	42	LM 13-OP	3	34
16	LM 16-AJ	5(4)	68	LM 16-OP	4(3)	52
20	LM 20-AJ	5	85	LM 20-OP	4	69
25	LM 25-AJ	6(5)	216	LM 25-OP	5(4)	188
30	LM 30-AJ	6	245	LM 30-OP	5	210
35	LM 35-AJ	6	384	LM 35-OP	5	350
38	LM 38-AJ	6	475	LM 38-OP	5	400
40	LM 40-AJ	6	579	LM 40-OP	5	500
50	LM 50-AJ	6	1560	LM 50-OP	5	1340
60	LM 60-AJ	6	1820	LM 60-OP	5	1650
80	LM 80-AJ	6	4320	LM 80-OP	5	3750
100	LM 100-AJ	6	8540	LM 100-OP	5	7200
120	LM 120-AJ	8	14900	LM 120-OP	6	11600

Note) The numbers of ball rows in the table apply to types using a resin retainer. Those of types using a metal retainer are indicated in parentheses.