

Linear Bushings with Lubrication Unit MX

Single / Double / Flanged Single

Lubrication Unit **MX** realizes maintenance free.

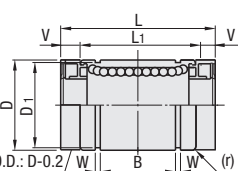
■ **Features:** The most popular Linear Bushing style.

MISUMI Original

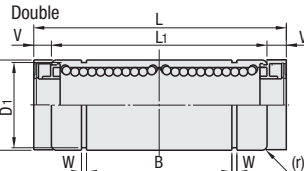


Type		Outer Cylinder			Balls	Pad Case / Retainer	Ambient Operating Temp.	Accessory
Single	Double	Material	Hardness	Surface Treatment	Material	Material		Material
LMU-MX	LMUW-MX	SUJ2 Equivalent	58HRC~	-	SUJ2 Equivalent	Plastic (Duracon M90 Equivalent)	-20~80°C	Seal Material: Nitrile Rubber

Single



Double



Pad Case O.D.: D-0.2 / W B W (r)

■ No need to fill with grease prior to use because the product is already filled with lithium soap-based grease in addition to the built-in lubrication unit.

■ **Single**

Part Number	Type	dr	Tolerance	D Tolerance		L	L1 Tolerance	V	B Tolerance	W	D1	(r)	Eccentricity (Max.)	Rows of Balls	Basic Load Rating		Mass (g)
				No Surface Treatment	Surface Treatment										C (Dynamic)	N (Co) (Static)	
LMU-MX	10	0	19	0	39	29	5	19.4	0	1.3	18	0.4	0.012	4	372	549	35
	12	-0.009	21	-0.013	41	30	5.5	20.4	-0.4	1.6	20	0.8			412	598	45
	16	28	49	37	6	23.3	7	27.3			27				775	1180	80
	20	32	56	42	7	27.3	7	27.3	30.5	882	1370	109					
	25	0	40	0	77	59	9	37.3	-0.5	1.85	38	1.5	0.015	5	980	1570	255
	30	-0.010	45	-0.016	84	64	10	40.8			43				1570	2740	286
	35	52	92	70	11	45.3	11	45.3	49	1670	3140	453					
	40	0	60	0	104	80	12	56.3	57	2160	4020	687					
	50	-0.012	80	-0.019	128	100	14	68.8	2.6	76.5	3820	7940	1763				

■ **Double**

Part Number	Type	dr	Tolerance	D Tolerance		L	L1 Tolerance	V	B Tolerance	W	D1	(r)	Eccentricity (Max.)	Rows of Balls	Basic Load Rating		Allowable Static Moment (Mo N·m)	Mass (g)
				No Surface Treatment	Surface Treatment										C (Dynamic)	N (Co) (Static)		
LMUW-MX	10	0	19	0	65	55	5	41.4	0	1.3	18	0.4	0.015	4	588	1100	7.24	66
	12	-0.010	21	-0.016	68	57	5.5	43.4	-0.5	1.6	20	0.8			657	1200	10.9	84
	16	28	82	70	6	49.8	7	57.8			27				1230	2350	19.7	152
	20	32	94	80	7	57.8	7	57.8	30.5	1400	2740	26.8			191			
	25	0	40	0	130	112	9	78.3	-0.6	1.85	38	1.5	0.020	6	1560	3140	43.4	459
	30	-0.012	45	-0.019	143	123	10	85.3			43				2490	5490	82.8	504
	35	52	157	135	11	94.8	11	94.8	49	2650	6270	110	823					
	40	0	175	151	12	116.8	12	116.8	57	3430	8040	147	1203					
	50	-0.015	220	192	14	142.8	14	142.8	2.6	76.5	6080	15900	397	3163				

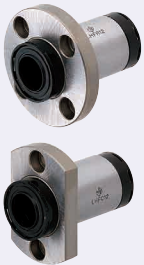
For Precautions for Use, see P.303.

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Lubrication Unit **MX** realizes maintenance free.

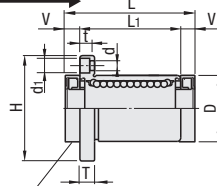
■ **Features:** Easy to assemble with bolt-on flanges.

MISUMI Original



Type			Outer Cylinder			Balls	Pad Case / Retainer	Ambient Operating Temp.	Accessory
Round Flange	Square Flange	Compact Flange	Material	Hardness	Surface Treatment	Material	Material		Material
LHFR-MX	LHFS-MX	LHFC-MX	SUJ2 Equivalent	58HRC~	-	SUJ2 Equivalent	Plastic (Duracon M90 Equivalent)	-20~80°C	Seal Material: Nitrile Rubber
LHFRM-MX	LHFSM-MX	LHFCM-MX			Electroless Nickel Plating	Electroless Nickel Plating			

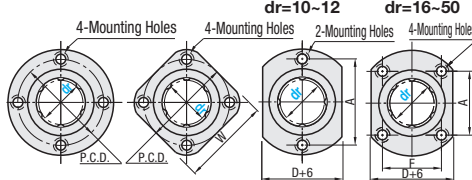
Mounting Direction



Round Flange

Square Flange

Compact Flange



Pad Case O.D.: D-0.2

■ No need to fill with grease prior to use because the product is already filled with lithium soap-based grease in addition to the built-in lubrication unit.

Part Number	Type	dr	Tolerance	D Tolerance		L	L1 Tolerance	V	H	T	d	d1	t	P.C.D.	W	F	A	Eccentricity	Rows of Balls	Perpendicularity	Basic Load Rating			Mass (g)	
				No Surface Treatment	Surface Treatment																C (Dynamic)	N (Co) (Static)	Round Flange		Square Flange
LMU-MX	10	0	19	0	39	29	5	40	6	4.5	7.5	4.1	29	30	-	29	0.012	4	0.012	4	372	549	76	56	68
	12	-0.009	21	-0.016	41	30	5.5	42	6	48	6	4.5	32	32	-	32	0.012				412	598	80	61	72
	16	28	49	37	6	48	6	48	6	48	6	4.5	38	37	22	31	0.015				775	1180	127	111	119
	20	32	56	42	7	54	7	54	8	5.5	9	5.1	43	42	24	36	0.015				882	1370	191	156	178
	25	0	40	0	77	59	9	62	8	5.5	9	5.1	51	50	32	40	0.015	980	1570	359	319	344			
	30	-0.010	45	-0.019	84	64	10	74	10	6.6	11	6.1	60	58	35	49	0.020	1570	2740	494	399	412			
	35	52	92	70	11	82	11	82	11	82	11	8.1	67	64	38	55	0.020	1670	3140	678	588	603			
	40	0	60	0	104	80	12	96	13	9	14	8.1	78	75	45	64	0.020	2160	4020	1093	913	946			
	50	-0.012	80	-0.022	128	100	14	116	14	116	14	8.1	98	92	56	80	0.020	3820	7940	2263	2063	2100			

For Precautions for Use, see P.303. Select Height-adjusting Spacers for Flanged Bushings from P.330.

*Perpendicularity of D to flange mounting surface

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dr	Straight Single		Straight Double		Round Flange			Square Flange			Compact Flange			
	LMU-MX	LMUW-MX	LHFR-MX	LHFS-MX	LHFRM-MX	LHFSM-MX	LHFC-MX	LHFCM-MX	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
10														
12														
16														
20														
25														
30														
35														
40														
50														

Ordering Example
Part Number
LMU-MX16
LHFR-MX12

*Various Grease Application Services are not applicable.

For orders larger than indicated quantity, please request a quotation.