

# Linear Bushings with Lubrication Unit MX

## Flanged Double / Center Flanged Double

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 Flanged	Material: SUJ2 Equivalent, Hardness: 58HRC, Surface Treatment: Electroless Nickel Plating	Material: SUJ2 Equivalent, Surface Treatment: CrS40C Equivalent	Material: Plastic (Duracon M90 Equivalent)	-20~80°C	Seal: Material Nitrile Rubber
Square Flanged					
Compact Flanged					

■ 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	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)	Co (Static)	Round Flange	Square Flange	Compact Flange
LHFRW-MX	10	0	-0.010	19	0	65	55	5	40	6	4.5	7.5	4.1	29	30	-	29	4	0.015	588	1100	7.24	102	82	94
LHFSW-MX	12	0	-0.016	21	0	68	57	5.5	42	6	4.5	7.5	4.1	32	32	-	32	4	0.015	657	1200	10.9	114	94	106
LHFCW-MX	16	0	-0.021	28	0	82	70	6	48	8	5.5	9	5.1	38	37	22	31	5	0.020	1230	2350	19.7	172	172	189
LHFRWM-MX	20	0	-0.012	32	0	94	80	7	54	8	5.5	9	5.1	43	42	24	36	6	0.025	1400	2740	26.8	271	236	258
LHFSWM-MX	25	0	-0.015	40	0	130	112	9	62	10	6.6	11	6.1	51	50	32	40	6	0.025	1560	3140	43.4	559	519	544
LHFCWM-MX	30	0	-0.020	45	0	143	123	10	74	10	6.6	11	6.1	60	58	35	49	6	0.025	2490	5490	82.8	704	614	669
LHFRWM-MX	35	0	-0.015	52	0	157	135	11	82	10	6.6	11	6.1	67	64	38	55	6	0.025	2650	6270	110	1048	958	973
LHFSWM-MX	40	0	-0.020	60	0	175	151	12	96	13	9	14	8.1	78	75	45	64	6	0.025	3430	8040	147	1603	1413	1456
LHFCWM-MX	50	0	-0.030	80	0	220	192	14	116	13	9	14	8.1	98	92	56	80	6	0.025	6080	15900	397	3663	3463	3500

For Precautions for Use, see P.303. Select Height-adjusting Spacers for Flanged Bushings from P.330. \* Perpendicularity of D to flange mounting surface kgf=Nx0.101972

Lubrication Unit **MX** realizes maintenance free. ■ Features: Easy to assemble with bolt-on flanges. A load can be placed near the center of the bushing, evenly distributing the load and space.

MISUMI Original



Type	Outer Cylinder	Balls	Pad Case / Retainer	Ambient Operating Temp.	Accessory
Round Flanged	Material: SUJ2 Equivalent, Hardness: 58HRC, Surface Treatment: Electroless Nickel Plating	Material: SUJ2 Equivalent, Surface Treatment: CrS40C Equivalent	Material: Plastic (Duracon M90 Equivalent)	-20~80°C	Seal: Material Nitrile Rubber
Square Flanged					
Compact Flanged					

■ 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	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)	Co (Static)	Round Flange	Square Flange	Compact Flange	Round Flange
LHMRW-MX	10	0	-0.010	19	0	65	55	5	24.5	40	6	4.5	7.5	4.1	29	30	-	29	4	0.015	588	1100	7.24	102	82	94
LHMSW-MX	12	0	-0.016	21	0	68	57	5.5	25.5	42	6	4.5	7.5	4.1	32	32	-	32	4	0.015	657	1200	10.9	114	94	106
LHMCW-MX	16	0	-0.021	28	0	82	70	6	32	48	8	5.5	9	5.1	38	37	22	31	5	0.020	1230	2350	19.7	172	172	189
LHMRWM-MX	20	0	-0.012	32	0	94	80	7	36	54	8	5.5	9	5.1	43	42	24	36	6	0.025	1400	2740	26.8	271	236	258
LHMSWM-MX	25	0	-0.015	40	0	130	112	9	52	62	10	6.6	11	6.1	51	50	32	40	6	0.025	1560	3140	43.4	559	519	544
LHMCWM-MX	30	0	-0.020	45	0	143	123	10	56.5	74	10	6.6	11	6.1	60	58	35	49	6	0.025	2490	5490	82.8	704	614	669
LHMRWM-MX	35	0	-0.014	52	0	157	135	11	62.5	82	10	6.6	11	6.1	67	64	38	55	6	0.025	2650	6270	110	1048	958	973
LHMSWM-MX	40	0	-0.020	60	0	175	151	12	69	96	13	9	14	8.1	78	75	45	64	6	0.025	3430	8040	147	1603	1413	1456
LHMCWM-MX	50	0	-0.022	80	0	220	192	14	89.5	116	13	9	14	8.1	98	92	56	80	6	0.025	6080	15900	397	3663	3463	3500

For Precautions for Use, see P.303. Select Height-adjusting Spacers for Flanged Bushings from P.330. \* Perpendicularity of D to flange mounting surface kgf=Nx0.101972

dr	Flanged, Double						Center Flanged Double					
	Round Flange		Square Flange		Compact Flange		Round Flange		Square Flange		Compact Flange	
	LHFRW-MX	LHFRWM-MX	LHFSW-MX	LHFSWM-MX	LHFCW-MX	LHFCWM-MX	LHMRW-MX	LHMSW-MX	LHMCW-MX	LHMRWM-MX	LHMSWM-MX	LHMCWM-MX
10	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate	Unit Price	Volume Discount Rate
12	1 - 9 pc(s), 10-20 pcs.	1 - 9 pc(s), 10-20 pcs.	1 - 9 pc(s), 10-20 pcs.	1 - 9 pc(s), 10-20 pcs.	1 - 9 pc(s), 10-20 pcs.	1 - 9 pc(s), 10-20 pcs.	1 - 9 pc(s), 10-20 pcs.	1 - 9 pc(s), 10-20 pcs.	1 - 9 pc(s), 10-20 pcs.	1 - 9 pc(s), 10-20 pcs.	1 - 9 pc(s), 10-20 pcs.	1 - 9 pc(s), 10-20 pcs.
16												
20												
25												
30												
35												
40												
50												

Ordering Example  
Part Number  
LHFRW-MX16  
LHMSW-MX20

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

Various Grease Application Services are not applicable.

# Linear Bushings with Lubrication Unit MX

## Flanged Single with Pilot / Flanged Double with Pilot

Lubrication Unit **MX** realizes maintenance free. ■ Features: Easy to assemble with bolt-on flanges. The linear bushing does not protrude out on the front side for good space utilization.

MISUMI Original



Type	Outer Cylinder	Balls	Pad Case / Retainer	Ambient Operating Temp.	Accessory
Round Flanged	Material: SUJ2 Equivalent, Hardness: 58HRC, Surface Treatment: Electroless Nickel Plating	Material: SUJ2 Equivalent, Surface Treatment: CrS40C Equivalent	Material: Plastic (Duracon M90 Equivalent)	-20~80°C	Seal: Material Nitrile Rubber
Square Flanged					
Compact Flanged					

■ 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	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)	Co (Static)	Round Flange	Square Flange	Compact Flange
LHIFRW-MX	10	0	-0.010	19	0	65	55	5	6	40	6	4.5	7.5	4.1	29	30	-	29	4	0.012	372	549	76	56	68
LHIFSW-MX	12	0	-0.009	21	0	68	57	5.5	6	42	6	4.5	7.5	4.1	32	32	-	32	4	0.012	412	598	80	61	72
LHIFCW-MX	16	0	-0.016	28	0	82	70	6	48	48	8	5.5	9	5.1	38	37	22	31	5	0.015	775	1180	127	111	119
LHIFRWM-MX	20	0	-0.012	32	0	94	80	7	54	54	8	5.5	9	5.1	43	42	24	36	6	0.015	882	1370	191	156	178
LHIFSW-MX	25	0	-0.010	40	0	130	112	9	62	62	10	6.6	11	6.1	51	50	32	40	6	0.020	980	1570	359	319	344
LHIFCW-MX	30	0	-0.015	45	0	143	123	10	74	74	10	6.6	11	6.1	60	58	35	49	6	0.020	1570	2740	494	399	412
LHIFRWM-MX	35	0	-0.012	52	0	157	135	11	82	82	10	6.6	11	6.1	67	64	38	55	6	0.020	1670	3140	678	588	603
LHIFSW-MX	40	0	-0.015	60	0	175	151	12	96	96	13	9	14	8.1	78	75	45	64	6	0.020	2160	4020	1093	913	946
LHIFCW-MX	50	0	-0.022	80	0	220	192	14	116	116	13	9	14	8.1	98	92	56	80	6	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 kgf=Nx0.101972

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Part Number	Type	dr	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)	Co (Static)	Round Flange	Square Flange	Compact Flange	Round Flange
LHIRW-MX	10	0	-0.010	19	0	65	55	5	6	40	6	4.5	7.5	4.1	29	30	-	29	4	0.015	588	1100	7.24	102	82	94
LHISW-MX	12	0	-0.016	21	0	68	57	5.5	6	42	6	4.5	7.5	4.1	32	32</										