Lubrication Unit MX Series

Patented

Linear Bushings with Lubrication Unit MX

Single / Double / Flanged Single

Long Term Maintenance Free Lubrication Unit MX Characteristics and Features

Features of Lubrication Unit MX

• Extended maintenance period

Long durability of lubrication performance has resulted in significant reduction of maintenance load especially with machines and equipment environments where applying grease is not easy.

· Environmentally friendly system

Proper amount of lubricant to ball rolling surface at right time makes the system environment-friendly. · Cost advantage

Contributes to reduction of maintenance costs and product troubles caused by failing to lubricate. · Reduced manufacturing steps

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.

Structure of Lubrication Unit MX



Lubrication Unit MX has a fiber pad containing the lubricant. Capillary action allows appropriate supply of lubricant to contact surfaces. Therefore, oil film is always formed between balls and shaft so that service intervals is extended significantly.

2.5x durability with a little cost addition to the Standard Type

Endurance Test Result

Handling Cautions



<Test Condition> Sample : Linear Bushing LMU12 with Anti-rust oil, Linear Bushing with Lubrication Unit LMU-MX12 Applied Load 206N (50% against Basic Dynamic Load Rating 412N) Average Speed : 42m/min(0.7m/sec) Stroke 100mm Grease, initial filling only (LMU-MX12 only) Lubricant 58HRC Shaft Material · SU.12 24 hours, continuously operated With 50% of basic load rating applied for testing, the Lubrication Unit MX Type has shown a 2.5 times higher durability

performance compared to the one without the MX lubrication

*The data above are for reference only, and not guaranteed by the manufacturer. The data was revised to the above since the 2007 catalog after the safety margin was confirmed by increased test data points.



• When mounting flanged lubrication unit type, do not use the lubrication unit case as a pilot as shown in (2), as that may damage the case. Instead, use the Flange Type with Pilot as shown in ③ . Do not disassemble as that may cause failures.



Part Number			D			L1		v	В		w	D,	(r)	Eccentricity	Rows	Basic Lo	ad Rating	Allowable Static Moment	Mass
Туре	dr	Tolerance		Tolerance	-		Tolerance	•		Tolerance			(1)	(Max.)	of Balls	C (Dynamic) N	Co (Static) N	(Mo N · m)	(g)
LMUW-MX	10	0	19	0	65	55	0 -0.3	5	41.4	0 -0.5	12	18	0.4	0.015	4	588	1100	7.24	66
	12	-0.010	21		68	57		5.5	43.4		1.5	20				657	1200	10.9	84
	16		28	-0.010	82	70		6	49.8		16	27	0.8			1230	2350	19.7	152
	20	0	32	0 -0.019	94	80		7	57.8	0 -0.6	1.0	30.5		0.020	5	1400	2740	26.8	191
	25	0,012	40		130	112	0 -0.4	9	78.3		1 95	38	1.5		6	1560	3140	43.4	459
	30	-0.012	45		143	123		10	85.3		1.05	43				2490	5490	82.8	504
	35	0	52	0 -0.022	157	135		11	94.8		0.1	49				2650	6270	110	823
	40		60		175	151		12	116.8		2.1	57				3430	8040	147	1203
	50	-0.013	80		220	192		14	142.8		2.6	76.5				6080	15900	397	3163
For Precautions f	or Use.	see 🔤 P.30	3.															kgf=N	x0.101972

ubrication Unit

Features: Easy to assemble with bolt-on flanges.



Part Number Example ious Grease Application Services are not applicable

For orders larger than indicated quantity, please request a quotation