

# Linear Bushings

## Short, Medium

= For customers selecting MISUMI original specifications =  
The part enclosed in the red frame is as per standard specifications (Outer cylinder SUJ2 equivalent, Retainer resin). Consider these specifications while selecting the product.

**Features:** Shorter length (L dim.) compared to Single Type enables length space savings.

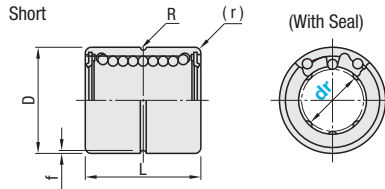
### MISUMI Original

#### Short



RoHS 10

Type	Outer Cylinder			Balls	Retainer	Ambient Operating Temp.	Accessory
Short	M Material	H Hardness	S Surface Treatment	M Material	M Material		M Material
LMUT	SUJ2 Equivalent	58HRC~	-	SUJ2 Equivalent	Plastic (Duracon M90 Equivalent)	-20~80°C	Seal M Material: Nitrile Rubber (-20~120°C)
SLMUT	SUS440C Equivalent	56HRC~	-	SUS440C Equivalent			



#### Features of Short Type

- The housing can be made more compact.
- The L dimensions are made to match MISUMI's standard plates.

#### Short

Type	Part Number		D Tolerance		L Tolerance		R	f	(r)	Eccentricity (Max.)	Rows of Balls	Basic Load Rating		Mass (g)
	dr	Tolerance	No Surface Treatment	Surface Treatment	Tolerance	Tolerance						C (Dynamic) N	Co (Static) N	
LMUT SLMUT	6	0 -0.009	12	0	0 -0.2	16	1	0.3	0.4	0.012	4	113	155	6.6
	8		15	-0.011		20						155	226	14.7
	10		19			25						254	359	26.1
	12		21	0		25						317	407	28.6
	13		23	-0.013		30						320	413	36.3
	16		28			30						582	724	60.0
	20		32	0 -0.016		35						777	1034	81.6

For Precautions for Use, see P.303

Short guiding section not suitable for which large moment loads apply.

kgf-Nx0.101972

**Features:** Body length is approximately 1.5 times of single type, and allowable moment is approximately 4.3 times. Suitable for applications where there is no enough space for double type.

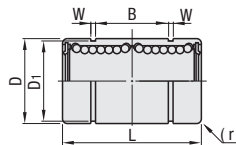
### MISUMI Original

#### Medium



RoHS 10

Type	Outer Cylinder			Balls	Retainer	Ambient Operating Temp.	Accessory
Straight	M Material	H Hardness	S Surface Treatment	M Material	M Material		M Material
LMUD	SUJ2 Equivalent	58HRC~	-	SUJ2 Equivalent	Plastic (Duracon M90 Equivalent)	-20~80°C	Seal M Material: Nitrile Rubber
LMUDM			Electroless Nickel Plating	SUS440C Equivalent			



Body length is approximately 1.5 times of single type, and allowable moment is approximately 4.3 times. (See Allowable Load Comparison)

#### Medium

Type	Part Number		D Tolerance		L Tolerance	B Tolerance		W	D <sub>1</sub>	(r)	Eccentricity (Max.)	Rows of Balls	Basic Load Rating		Allowable Static Moment (N·m)	Mass (g)			
	dr	Tolerance	No Surface Treatment	Surface Treatment		Tolerance	Tolerance						C (Dynamic) N	Co (Static) N					
LMUD LMUDM	6	0 -0.010	12	0	0 -0.3	29	0	1.1	11.5	0.4	0.015	4	226	310	1.42	12			
	8		15	-0.013		-0.018							37	20	14.3	2.12	27		
	10		19										37	25	18	4.37	49		
	12		21	0		0							47	30	20	6.2	54		
	13		23	-0.016		-0.021							56	35	22	6.2	69		
	16		28										65	40	27	1164	1448	13.1	112
	20		32	0		0							83	40	30.5	1554	2068	18.3	152
	25		40	-0.012		-0.025							83	55	38	1725	3068	25.3	332
	30		45	-0.019		-0.025							90	71.3	42.5	2440	3974	42.7	422

For Precautions for Use, see P.303

kgf-Nx0.101972

dr	Unit Price			
	Short		Medium	
	LMUT	SLMUT	LMUD	LMUDM
6				
8				
10				
12				
13				
16				
20				
25	-	-	-	-
30	-	-	-	-

#### Part Number

LMUT8  
 LMUD10  
 LMUDM12L (L Type Greased)

Alternative grease types available.

For Days to Ship, Price and Performance, see P.304