

Linear Bushings - Standard

- Double -

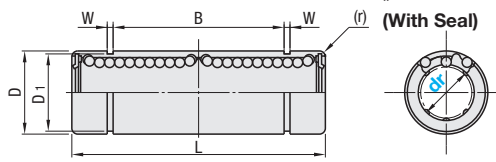
Comparison Points with Similar Products | Linear Bushings for applications required high accuracy.

Features: The most common specification of Linear Bushing.

Ordering Example	Part Number
	LMUW6



Type	Outer Cylinder			Ball	Retainer	Ambient Operating Temp.	Accessory
	Material	Hardness	Surface Treatment				
LMUW-N				SUJ2 Equivalent	Plastic (Duracon M90 Equivalent)	-20~80°C	*Seal Material Nitrile Rubber (-20~120°C)
LMUW					Stainless Steel (SUS)	-20~110°C	
LMUWF				SUJ2 Equivalent	Plastic (Duracon M90 Equivalent)	-20~80°C	*Seal Material Nitrile Rubber (-20~120°C)
LMUWR		58HRC~	Low Temperature Black Chrome Plating		Stainless Steel (SUS)	-20~110°C	
LMUWM				SUJ2 Equivalent	Plastic (Duracon M90 Equivalent)	-20~80°C	*Seal Material Nitrile Rubber (-20~120°C)
LMUWMF			Electroless Nickel Plating		Stainless Steel (SUS)	-20~110°C	
SLMUW				SUS440C Equivalent	Plastic (Duracon M90 Equivalent)	-20~80°C	*Seal Material Nitrile Rubber (-20~120°C)
SLMUWS		56HRC~			Stainless Steel (SUS)	-20~120°C	



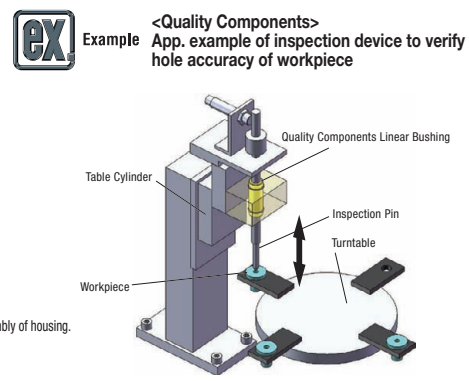
Part Number	Type	dr	Tolerance	D Tolerance		L Tolerance	B Tolerance		W	D1	r	Eccentricity (Max.)	Rows of Balls	Mass (g)	
				No Surface Treatment	Surface Treatment										
LMUW	(No Seal)	3	0 -0.010	7	0	19	-	-	-	-	0.3	0.010	4	3.2	
LMUWF		4		8	-0.011	23	-	-	-	-	9.6			0.4	4.8
LMUWR		5		10	-0.015	28	-	-	-	-	11.5			0.8	11
LMUWM		6		12	-0.013	35	0	-0.3	1.1	11.5	14.3			0.015	16
LMUWMF		8	15	-0.018	45	0	-0.5	1.3	14.3	18	0.020	31			
SLMUW		10	19	-0.021	55	0	-0.6	1.6	18	22	0.025	62			
SLMUWS		12	21	-0.025	57	0	-0.7	1.85	20	27	0.030	80			
LMUW-N		13	23	-0.021	61	0	-0.4	2.1	22	30.5	0.040	90			
		16	28	-0.030	70	0	-0.6	2.6	27	38	0.050	145			
		20	32	-0.035	80	0	-0.7	3.0	30.5	43	0.060	180			
		25	40	-0.045	112	0	-0.8	3.5	38	49	0.070	440			
		30	45	-0.055	123	0	-0.9	4.0	43	57	0.080	480			
LMUW		LMUWM	35	0 -0.012	52	0	-0.4	2.1	49	49	1.5	0.020	6	795	
			40	-0.015	60	-0.022	-0.030	151	116.8	57	57	0.025	6	1170	
			50	-0.015	80	-0.022	-0.030	192	142.8	76.5	76.5	0.025	6	3100	

No seal for dr=3 and 4 for LMUW-N and LMUWR.
 No seal for dr=3 and 4. No-Seal Type has lower sliding resistance (0.4 ~ 1.2N) and moves smoothly. To prevent intrusion of dust on sliding contact surface, dust resistance measures should be taken separately.
 For Low Temperature Black Chrome Plating, refer to P.222. Spacers and Holding Plates for linear bushings can be selected from P.238. For Precautions for Use, refer to P. 221.

dr	Basic Load Rating		Allowable Static Moment (N·m)
	C (Dynamic) N	Co (Static) N	
3	324	529	2.18
4	431	784	4.31
5	588	1100	7.24
6	657	1200	10.9
8	813	1570	11.6
10	1230	2350	19.7
12	1400	2740	26.8
13	1560	3140	43.4
16	2490	5490	82.8
20	2650	6270	110
25	3430	8040	147
30	6080	15900	397

dr	Recommended Tolerance of Shaft Dia. and Housing Dia.	
	Shaft Dia. g6 Tolerance	Housing Dia. H7 Tolerance
3	-0.002	7
4	-0.008	8
5	-0.004	10
6	-0.012	12
8	-0.005	15
10	-0.014	19
12	-0.006	21
13	-0.017	23
16	-0.007	28
20	-0.020	32
25	-0.007	40
30	-0.020	45
35	-0.009	52
40	-0.025	60
50	-0.025	80

*The above tolerance is recommended for fitting with shaft and assembly of housing.



MiSUMI C-VALUE Linear Bushings - Standard

- C-VALUE Double -

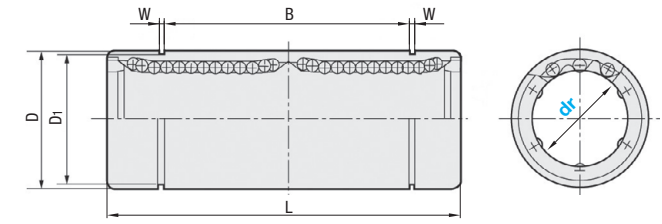
Comparison Points with Similar Products | Economical linear bushings suitable for simplified guide applications. * Refer to P227 for overview of C-VALUE Products.

Features: The most common specification of Linear Bushing.

Ordering Example	Part Number
	C-LMUW6



Type	Outer Cylinder			Ball	Retainer	Ambient Operating Temp.	Accessory
	Material	Hardness	Surface Treatment				
C-LMUW	SUJ2 Equivalent	58HRC~	-	SUJ2 Equivalent	Plastic	-20~80°C	Seal Material Nitrile Rubber



Part Number	Type	dr	Tolerance	D Tolerance		L Tolerance	B Tolerance		W	D1	Eccentricity (Max.)	Rows of Balls	Mass (g)
				No Surface Treatment	Surface Treatment								
C-LMUW		4	+0.003 -0.013	8	+0.006	23	-	-	-	-	0.020	4	2
		5		10	-0.013	28	18.2	-	-	9.6	0.030		4
		6		12	-0.015	35	24.8	1.1	11.5	11.5	0.040		8.5
		8		15	-0.015	45	32.8	1.3	14.3	14.3	0.050		17
		10	19	-0.018	55	41.4	1.6	18	18	0.060	31		
		12	21	-0.018	57	43.4	1.85	20	20	0.070	41		
		13	23	-0.021	61	49.8	2.1	22	22	0.080	46		
		16	28	-0.024	70	57.8	2.6	27	27	0.090	73		
		20	32	-0.024	80	66.8	3.0	30.5	30.5	0.100	98		
		25	40	-0.024	112	78.3	3.5	38	38	0.110	236		
		30	45	-0.024	123	85.3	4.0	43	43	0.120	262		
		35	52	-0.024	135	94.8	4.5	49	49	0.130	425		
		40	60	-0.024	151	116.8	5.0	57	57	0.140	654		
		50	80	-0.024	192	142.8	6.0	76.5	76.5	0.150	1700		

No seal for dr=3 and 4. No-Seal Type has lower sliding resistance (0.4 ~ 1.2N) and moves smoothly. To prevent intrusion of dust on sliding contact surface, dust resistance measures should be taken separately.
 Spacers and Holding Plates for linear bushings can be selected from P.238.
 For Precautions for Use, refer to P. 221.

dr	Basic Load Rating		Allowable Static Moment (N·m)
	C (Dynamic) N	Co (Static) N	
4	431	784	4.31
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dr	Recommended Tolerance of Shaft Dia. and Housing Dia.	
	Shaft Dia. g6 Tolerance	Housing Dia. H7 Tolerance
4	-0.004	8
5	-0.012	10
6	-0.005	12
8	-0.005	15
10	-0.014	19
12	-0.006	21
13	-0.017	23
16	-0.007	28
20	-0.007	32
25	-0.020	40
30	-0.020	45
35	-0.009	52
40	-0.025	60
50	-0.025	80

*The above tolerance is recommended for fitting with shaft and assembly of housing.
 *When using the linear bushings in transfer as a simplified guide, combination with hardened g6 shaft is recommended.
 *Combination of C-VALUE linear bushings and C-VALUE shafts is recommended, when used in transfer or other purposes, which do not place importance on a gap between a linear bushing and linear shaft or sliding properties.

