



Linear Bushings (Wide Block with Pillow Blocks)

Double / Medium Long / Long Type


Linear Bushings (Wide Block with Pillow Blocks) – Double Type



Linear Bushings (Wide Block with Pillow Blocks) – Medium Long Type



Linear Bushings (Wide Block with Pillow Blocks) – Long Type

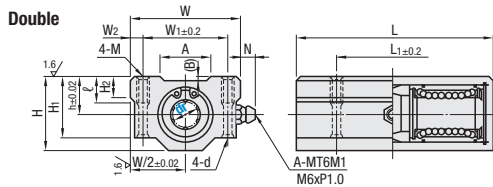


RoHS10

Type	Linear Bushings (P.375)			Housing		Ambient Operating Temp.
	Double	Medium Long	Long	Material	Surface Treatment	
LHBBW	LHBS	LHBL	LMU	Aluminum Alloy	Clear Anodize	-20~80°C
LHBBWF	—	—	LMUF			-20~110°C
SLHBBW	—	—	SLMU			-20~80°C
SLHBBWF	—	—	SLMUS			-20~110°C
—	—	—	—			—

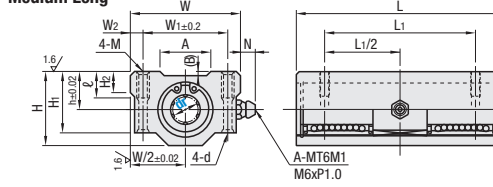
6.3 / (1.6 /)
(Housing)

Double



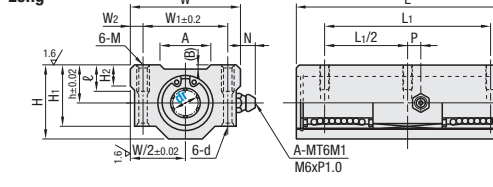
Features of Double Type
Body length is approximately 1.9 times of the type. Allowable moment is approximately 6 times.

Medium Long



Features of Medium Long Type
Body length is approximately 2.2 times of the single type. Allowable moment is approximately 10 times. Suitable where there is not enough space for a long type.

Long



Features of Long Type
Body length is approximately 2.7 times of the single type. Allowable moment is approximately 21 times.

① For ball row details see P.375.
② The datum surface is located on the other side of product ID label.
③ Allowable Static Moments: see P.398, 399.

dr	Tolerance			L			L ₁			h	H	(H ₁)	(H ₂)	W	W ₁	W ₂	M	d	ℓ	(A)	(B)	N	P	C	
	Double	Medium Long	Long	Double	Medium Long	Long	Double	Medium Long	Long																
(5)	0 -0.008	—	—	33	—	—	25	—	—	7	14	11	—	22	16	3	M3	—	—	—	—	—	—	—	0.5
(6)	—	—	—	48	—	—	36	—	—	9	18	15	6	30	20	5	M4	3.4	8	—	—	7.5	—	—	—
(8)	—	—	—	58	—	—	42	—	—	11	22	18	8	34	24	6	M4	3.4	8	—	—	7.5	—	—	—
10	0	—	—	68	—	—	46	—	—	13	26	21	8	40	28	6	M5	4.3	12	—	—	7	7	—	1
12	-0.010	—	—	70	—	—	46	—	—	15	30	24.5	8	42	30.5	5.75	M5	4.3	12	—	—	7	7	—	—
13	—	—	—	75	—	—	50	—	—	15	30	24.5	8	44	33	5.5	M5	4.3	12	—	—	7	7	—	—
*16	0	-0.015	—	85	100	—	60	74	—	19	38.5	32.5	9	50	36	7	M6	5.2	—	—	—	6.5	—	—	1.5
**20	0	0	0	96	115	134	70	84	100	21	41	35	11	54	40	—	M6	5.2	—	—	—	6.5	—	—	—
*25	-0.012	-0.018	-0.018	130	160	185	100	118	138	26	51.5	42	12	76	54	11	M8	7	18	—	—	9	—	—	—
*30	—	—	—	140	170	200	110	130	150	30	59.5	49	15	78	58	—	M8	7	18	—	—	9	—	—	—
(35)	0	—	—	155	—	—	—	—	—	34	68	54	18	90	70	—	M8	7	18	—	—	9	—	—	—
(40)	-0.015	—	—	175	—	—	—	—	—	40	78	62	20	102	80	—	M10	8.7	25	—	—	—	—	—	—
(50)	—	—	—	215	—	—	—	—	—	52	102	80	25	122	100	—	M10	8.7	25	—	—	—	—	—	2

① For Precautions for Use, see P.369. ② dr () is only available for Double Type, only sizes with * are available for Medium Long Type. ③ dr5 appearance will be different from the drawings above.
④ Grease fitting not available on Double Type dr5. ⑤ The datum surface is located on the other side of product ID label.

dr	Basic Load Rating			Co (Static) N			Allowable Static Moment (N-m)			Mass(g)		
	Double	Medium Long	Long	Double	Medium Long	Long	Double	Medium Long	Long	Double	Medium Long	Long
5	263	—	—	412	—	—	1.38	—	—	27	—	—
6	324	—	—	529	—	—	2.18	—	8.2	63	—	—
8	431	—	—	784	—	—	4.31	—	16.0	102	—	—
10	588	—	588	1100	—	1100	7.24	—	27.0	180	—	241
12	657	—	657	1200	—	1200	10.9	12.0	40.1	205	—	289
13	813	—	813	1570	—	1570	11.6	—	42.9	240	—	324
16	1230	1230	1230	2350	2350	2350	19.7	25.5	73.5	400	447	527
20	1400	1400	1400	2740	2740	2740	26.8	35.0	98.0	570	588	682
25	1560	1560	1560	3140	3140	3140	43.4	63.1	157	1200	1397	1586
30	2490	2490	2490	5490	5490	5490	82.8	106	297	1480	1693	1960
35	2650	—	—	6270	—	—	110	—	373	2200	—	—
40	3430	—	—	8040	—	—	147	—	553	3200	—	—
50	6080	—	—	15900	—	—	397	—	—	6700	—	—

Part Number Example

Part Number
LHBBW12
LHBL16
LHBBW12L (L Type Greased)
LHBBW16G (G Type Greased)
LHBL20H (H Type Greased)
Alternative grease types available.

Application Example



Linear Bushing Pillow Blocks Medium Long


kgf=Nx0.101972

Linear Bushings (Tall Block with Clamp Lever)


Single Right / Single Left / Double Right / Double Left Lever Type

Linear Bushings (Tall Block with Clamp Lever)


Single Right Lever Type




Single Left Lever Type



Double Right Lever Type



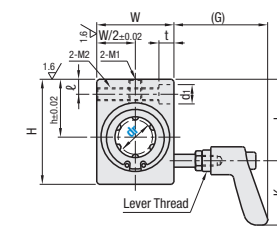
Double Left Lever Type



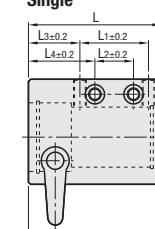
Type	Linear Bushing (P.375)		Housing		Collar / Thread	Clamp used Lever (P.3192)	Lever		Lever Thread	Nut	Ambient Operating Temp.		
	Single Right Lever	Single Left Lever	Material	Surface Treatment			Material	Surface Treatment					
LHSSC	LHSSWC	LHSLC	LHSLWC	LMU	Aluminum Alloy	Clear Anodize Treatment	304 Stainless Steel	CLFSC	Zinc Diecast	Baked Paint Finish	303 Stainless Steel	Stainless Steel (JIS SUS)	-20~80°C

6.3 / (1.6 /)
(Housing)

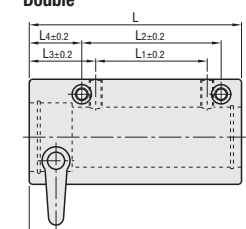
Right Lever



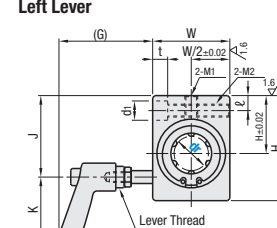
Single



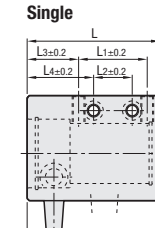
Double



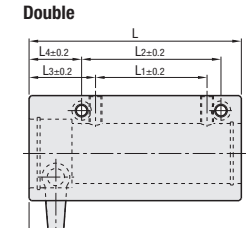
Left Lever



Single



Double



① For ball row details see P.375.
② The datum surface is located on the other side of product ID label.

The linear shaft is clamped by locking the lever.

Type	dr	Tolerance		L		L ₁		L ₂		L ₃		L ₄		h	W	H	(G)	J	K	P	ℓ	M ₁ (Effective Length)	M ₂ (Effective Length)	M ₃	d ₁ x t	C	
		Single	Double	Single	Double	Single	Double	Single	Double	Single	Double																
LHSSC LHSLC LHSSWC LHSLWC	16	0 -0.009	0 -0.010	62	99	32	52	18	65	24	31	31	24.5	27	36	49	43.7	38	30	12.5	7	M6 (13)	M6 (29)	M4	9 x 7 (For M5 Screws)	—	
	20	—	—	67	109	36	58	—	70	23	33	32	27	31	42	54	40.7	44	30	—	8	M8 (15)	M8 (34)	—	11 x 8 (For M6 Screws)	—	
	25	0 -0.010	0 -0.012	86	145	42	80	—	100	30.5	—	40.5	—	37	52	65	45.7	53.5	30	—	13.5	9	M10 (17)	M10 (42)	—	14 x 10 (For M8 Screws)	1
	30	—	—	91	155	44	90	22	110	32	—	43	31	40	58	71	42.7	59	30	—	—	9	M10 (17.5)	M10 (48)	—	—	—

① For Precautions for Use, see P.369. ② For linear bushings, hardened shafts with g6 tolerance are recommended. P.202-288
③ Make certain that the screws do not interfere with the bushing as M, are through holes. ④ The datum surface is located on the other side of product ID label.

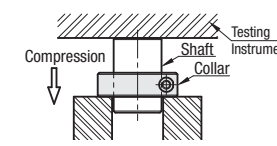
dr	Maximum Thrust Load N		Basic Load Rating				Mass(g)	
	Greased	Tightening Torque (N-m)	Single	Double	Single	Double	Single	Double
16	250	1.5	775	1230	1180	2350	347	526
20	250	1.5	882	1400	1370	2740	438	686
25	250	3	980	1560	1570	3140	841	1387
30	500	3	1570	2490	2740	5490	1015	1689

kgf=Nx0.101972

Maximum Thrust Load Test Method

The collar is tightened to torque value(s) shown in the chart, then compressive load is applied with the tester. The compressive load where the shaft begins to move is defined as the Max. Thrust Load.

*Maximum thrust load of greased linear bushings was tested.



Precautions for Use

- For installation, loosen a lever until the nut does not interfere with the shaft, then insert the shaft.
- Do not tighten the clamp without a shaft inserted. It may cause deformation and permanent damages.
- Do not use as a permanent safety position holding device. Use as an interim measure.

Part Number Example

Part Number
LHSSC16 (L Type Greased)
LHSLC16G (G Type Greased)
LHSLC20H (H Type Greased)
Alternative grease types available.

