

Tall Blocks Housing Units

Medium / Medium Long / Long

= For customers selecting MISUMI original specifications =
The products on this page are of standard specifications (Outer cylinder EN 1.3505 Equiv. equivalent, Retainer resin). Consider these specifications while selecting the product.

■ **Features:** A design that reduces linear bushing assembly steps. More compact width (W dim.) than Wide Blocks.

MISUMI Original

■ Medium



■ Medium Long



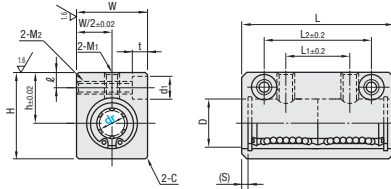
■ Long



RoHS10

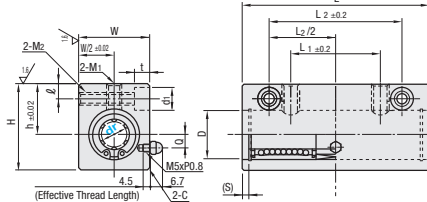
Type			Linear Bushing Used			Housing		Ambient Operating Temp.
Medium	Medium Long	Long	(P.317)	(P.315)		Material	Surface Treatment	
LHSSD	LHSSS	LHSSL	LMUD	LMU	LMU	Aluminum Alloy	Clear Anodize	-20~80°C

Medium



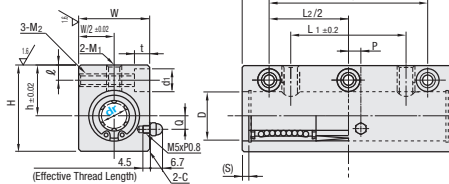
■ **Features of Medium Type Bushings**
Body length is approximately 1.4 times of single type, and allowable moment is approximately 4.3 times. Suitable for applications where there is no enough space for double type.

Medium Long



■ **Features of Medium Long Type**
Body length is approximately 2.2 times of single type and allowable moment is approximately 10 times; suitable where no space for long type is available.

Long



■ **Features of Long Type**
Body length is approximately 2.5 times of single type. Allowable moment is approximately 21 times.

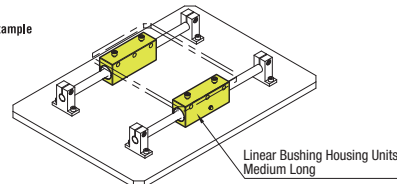
Type	Part Number				D	(S)	L			L1			L2			h	W	H	ℓ	Q	P	M1 (Effective Length)	M2 (Effective Length)	d1xℓ	C
	dr	Medium	Medium Long	Long			Medium	Medium Long	Long	Medium	Medium Long	Long	Medium	Medium Long	Long										
(Medium) LHSSD	(6)				12	3	37	-	-	14	-	-	24	-	-	14	16	22	5	-	-	M4 (8)	M4 (11)	6x5 (For M3 Screws)	1
	8				15	3	45	-	80	20	-	48	32	-	60	16	20	26	5	-	-	M5 (8.5)	M4 (15)		
	10	0	-0.01	-0.012	19	4	57	85	100	25	48	62	40	62	76	20	28	32	6	7	7	M6 (9.5)	M5 (20)	8x6 (For M4 Screws)	
	*12				21	4	57	85	100	25	48	62	40	62	76	20	28	34	7	7.5	7	M6 (13)	M6 (23)	9x7 (For M5 Screws)	
	13		-0.015	-0.015	23	4	57	85	106	25	48	64	40	62	76	20	30	43	7	7.5	7	M6 (13)	M6 (23)	9x7 (For M5 Screws)	
(Medium Long) LHSSS	*16				28	3.8	66	100	121	30	62	74	46	78	90	27	36	49	7	7	8	M8 (15)	M8 (34)	11x8 (For M6 Screws)	2 or less
	*20				32	3.8	75	115	136	34	68	82	52	88	102	31	42	54	8	0	9	M10 (17)	M10 (42)	14x10 (For M8 Screws)	
(Long) LHSSL	*25	0	-0.018	-0.018	40	3.2	93	160	187	42	96	116	66	120	140	37	52	65	9	0	9	M10 (17.5)	M10 (48)		
	*30				45	3.2	100	170	202	42	106	128	66	130	152	40	58	71							

For Precautions for Use, see P.303. Grease fitting is not available on Long Type dr8. dr () is applicable to Medium Type only. Only sizes with * are available for Medium Long Type. Make certain that the screws do not interfere with the bushing as M1 are through holes. The datum surface is located on the other side of product ID label.

Part Number	Unit Price			dr	Basic Load Rating			Allowable Static Moment (N·m)			Mass (g)		
Type	Medium	Medium Long	Long		C (Dynamic) N	Co (Static) N		Medium	Medium Long	Long	Medium	Medium Long	Long
(Medium) LHSSD	6			6	226	310	-	1.42	-	8.2	31	-	-
	8			8	310	431	452	2.12	-	16.0	60	-	126
	10			10	508	588	718	4.37	-	27.0	121	-	233
(Medium Long) LHSSS	12			12	634	657	814	6.2	12.0	40.1	124	232	278
	13			13	640	813	826	6.2	-	42.9	186	-	376
	16			16	1164	1230	1448	13.1	25.5	73.5	296	472	569
(Long) LHSSL	20			20	1554	1400	2068	27.40	18.3	98.0	403	671	788
	25			25	1725	1560	3068	31.40	25.3	63.1	157	843	1443
	30			30	2440	2490	3974	42.7	106	297	979	1748	2041

kgf=Nx0.101972

Ordering Example
Part Number
LHSSD16
LHSSL12L (L Type Greased)
LHSSD16G (G Type Greased)
LHSSD20H (H Type Greased)
Alternative grease types available.
For Days to Ship, Price and Performance, see P.304



Shaft-sliding Linear Bushing Housing Units

Single / Double

= For customers selecting MISUMI original specifications =
The products on this page are of standard specifications (Outer cylinder EN 1.3505 Equiv. equivalent, Retainer resin). Consider these specifications while selecting the product.

■ **Features:** MISUMI original. A design that reduces linear bushing assembly steps. Mounting surface to shaft center height selectable

MISUMI Original

■ Single



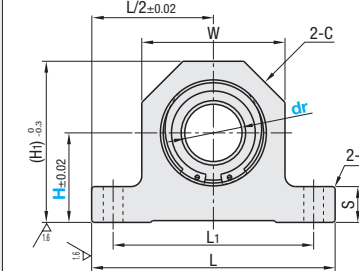
■ Double



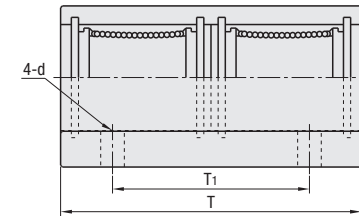
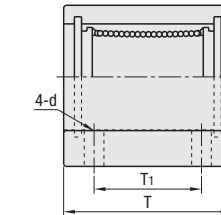
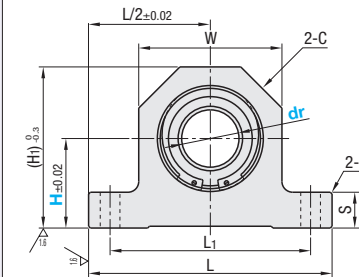
RoHS10

Type		Linear Bushing Used	Housing		Ambient Operating Temp.
Single	Double	(P.315)	Material	Surface Treatment	
LHGS	LHGW	LMU	Aluminum Alloy	Clear Anodize	-20~80°C

Single



Double



Part Number	Type	H Selection				L	(H1)	T		T1		S	W	C	C1	L1	d
		dr	12	15	20	25		Single	Double	Single	Double						
(Single) LHGS	12		16	20	25		58	H+15	40	70	25	50	8	30	8.5	46	5.5
	16		20	25	30		68	H+20	47	84	30	55	10	40	11.5	56	5.5
	20		25	30	30		72	H+22	52	94	35	60	12	44	12.5	60	5.5
(Double) LHGW	25		30	30	40		90	H+27.5	69	128	50	90	15	55	16	75	6.6
	30		30	40	50		105	H+32.5	74	138	55	100	20	65	18	85	9

For Precautions for Use, see P.303. The datum surface is located on the other side of product ID label.

■ Features of Shaft-sliding Linear Bushing Housing Units

- As the height is selectable, there is no need to use Height Adjusting Spacers.
- As Spacers are not required, parts count and cost can be reduced.
- Can be easily screw mounted from above, suitable for shaft-sliding mechanisms.
- Compact specifications for space saving.

dr	Basic Load Rating				Allowable Static Moment (N·m)		Mass (g)	
	C (Dynamic) N	Co (Static) N	Single	Double	Single	Double	Single	Double
12	412	657	598	1200	-	10.9	41	80
16	775	1230	1180	2350	-	19.7	73	145
20	882	1400	1370	2740	-	26.8	98	180
25	980	1560	1570	3140	-	43.4	236	440
30	1570	2490	2740	5490	-	82.8	262	480

kgf=Nx0.101972



Example ■ Guide of Cylinders for Moving Workpieces

Part Number	Type	dr	Unit Price				
			H15	H20	H25	H30	H40
(Single) LHGS	12						
	16						
	20						
	25						
	30						
Part Number	Type	dr	Unit Price				
			H15	H20	H25	H30	H40
(Double) LHGW	12						
	16						
	20						
	25						
	30						



Ordering Example
Part Number - H
LHGS16 - 30
LHGS12L - 15 (L Type Greased)
LHGW30G - 30 (G Type Greased)
LHGW20H - 25 (H Type Greased)
Alternative grease types available.
For Days to Ship, Price and Performance, see P.304

