

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 SUJ2 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	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

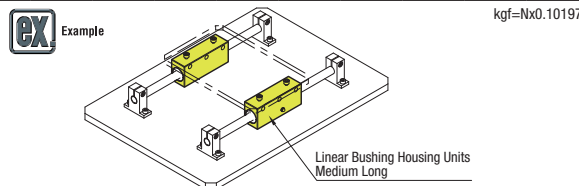
■ Features of Long Type
Body length is approximately 2.5 times of single type. Allowable moment is approximately 21 times.

Type	Part Number	Tolerance			D	(S)	L			L1			L2			h	W	H	ℓ	Q	P	M1 (Effective Length)	M2 (Effective Length)	d1xt	C
		Medium	Medium Long	Long			Medium	Medium Long	Long	Medium	Medium Long	Long	Medium	Medium Long	Long										
(Medium) LHSSD	6	0	-	-	12	3	37	-	-	14	-	-	24	-	-	14	16	22	5	-	-	M4 (8)	M4 (11)	6x5 (For M3 Screws)	1
	8	-	-	0	15	3	45	-	80	20	-	48	32	-	60	16	20	26	-	-	M5 (8.5)	M4 (15)	-		
	10	-0.01	-	-0.012	19	3	-	-	97	-	-	58	-	-	72	19	26	32	6	7	-	M6 (9.5)	M5 (20)	8x6 (For M4 Screws)	
(Medium Long) LHSSS	*12	-	-	0	21	4	57	85	100	25	48	62	40	62	76	20	28	34	7	7.5	-	M6 (23)	M6 (22)	9x7 (For M5 Screws)	
	13	-0.015	-	-0.015	23	4	-	106	-	-	64	-	-	80	25	30	43	7	-	-	M6 (13)	M6 (29)	11x8 (For M6 Screws)		
(Long) LHSSL	*16	-	-	0	28	3.8	66	100	121	30	62	74	46	78	90	27	36	49	7	7	-	M8 (15)	M8 (34)	14x10 (For M8 Screws)	
	*20	-0.012	-	-0.018	32	3.2	75	115	136	34	68	82	52	88	102	31	42	54	8	0	-	M10 (17)	M10 (42)	-	
	*25	-0.012	-	-0.018	40	3.2	93	160	187	42	96	116	66	120	140	37	52	65	9	0	-	M10 (17.5)	M10 (48)	-	
	*30	-	-	-	45	3.2	100	170	202	42	106	128	66	130	152	40	58	71	9	0	-	-	-	2 or less	

⚠ 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	Type	dr	Unit Price			Basic Load Rating			Allowable Static Moment (N·m)			Mass (g)					
			Medium LHSSD	Medium Long LHSSS	Long LHSSL	C (Dynamic) N	Co (Static) N	Co (Static) N	Medium	Medium Long	Long	Medium	Medium Long	Long			
6	(Medium) LHSSD	6	-	-	-	226	-	-	310	-	-	1.42	-	8.2	31	-	-
8	(Medium) LHSSD	8	-	-	-	310	-	-	431	452	-	2.12	-	16.0	60	-	126
10	(Medium) LHSSD	10	-	-	-	508	-	-	588	718	-	4.37	-	27.0	121	-	253
12	(Medium Long) LHSSS	12	-	-	-	634	657	-	814	1200	1200	6.2	12.0	40.1	124	232	278
13	(Medium Long) LHSSS	13	-	-	-	640	-	-	813	826	-	6.2	-	42.9	186	-	376
16	(Medium Long) LHSSS	16	-	-	-	1164	1230	-	1448	2350	1448	13.1	25.5	73.5	296	472	569
20	(Long) LHSSL	20	-	-	-	1554	1400	-	2068	2740	2740	18.3	35.0	98.0	403	671	788
25	(Long) LHSSL	25	-	-	-	1725	1560	-	3068	3140	3140	25.3	63.1	157	843	1443	1653
30	(Long) LHSSL	30	-	-	-	2440	2490	-	3974	5490	5490	42.7	106	297	979	1748	2041

Ordering Example
Part Number
LHSSD16
● LHSSD12L (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 SUJ2 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	Material	Surface Treatment	
LHGS	LHGW	LMU	Aluminum Alloy	Clear Anodize	-20~80°C

Single

■ Features of Single 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.

Double

■ Features of Double Type Bushings
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.

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

ex Example ■ Guide of Cylinders for Moving Workpieces

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

