

# Flanged Linear Bushings

## Medium, Pilot / Medium, Center Flanged

= 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:** Easy to assemble with bolt-on flanges. The linear bushing does not protrude out on the front side for good space utilization.

### MISUMI Original

#### Medium, Pilot



RoHS10

Type			Outer Cylinder			Balls	Retainer	Ambient Operating Temp.	Accessory
Round Flange	Square Flange	Compact Flange	Material	Hardness	Surface Treatment	Material	Material		
LHIRD	LHISD	LHICD	SUJ2 Equivalent	58HRC~	-	SUJ2 Equivalent	Plastic (Duracon M90 Equivalent)	-20~80°C	Seal Material (Nitrile Rubber (-20~120°C))

  

Ⓜ Body length is approximately 1.5 times of single type, and allowable moment is approximately 4.3 times. (See Allowable Load Comparison)  
 Ⓜ For Piloted and Flanged Type application examples, see P.307.

Part Number Type	dr	Tolerance	D		L		ℓ	H	T	d	d <sub>1</sub>	t	P.C.D.	W	F	A	Eccentricity	Rows of Balls	* Perpendicularity	Basic Load Rating			Allowable Static Moment (N·m)			Mass (g)		
			C (Dynamic) N	Co (Static) N	Co (Static) N	Co (Static) N														Co (Static) N	Co (Static) N	Co (Static) N	Co (Static) N	Co (Static) N				
LHIRD LHISD LHICD	6	0	12	0	29	±0.3	5	28	5	3.5	6	3.1	20	22	-	20	0.015	4	0.015	226	310	1.42	27	21	24			
	8		15	-0.013	37		16	32	24	25	-	24	29	30	452	2.12				47	39	43						
	10		19	-	-		40	29	30	-	29	32	32	-	32	508				718	4.37	85	65	77				
	12	-0.010	21	0	47	6	42	6	4.5	7.5	4.1	4.1	32	32	-	32	0.02	5	0.02	634	814	6.2	89	69	81			
	13		23	-0.016	65	43	33	34	-	33	38		37	22	31	640				826	6.2	109	87	102				
	16		28	-	56	48	38	37	22	31	43		42	24	36	1164				1448	13.1	157	132	149				
	20	-0.012	32	0	65	8	54	8	5.5	9	5.1	5.1	51	50	32	40	0.02	6	0.02	1554	2068	18.3	232	197	219			
	25		40	-0.019	83	62	51	50	32	40	60		58	35	49	1725				3068	25.3	481	442	452				
	30		45	-	90	74	10	6.6	11	6.1	60		58	35	49	2440				3974	42.7	560	482	494				

Ⓜ For Precautions for Use, see P.303. Ⓜ Select Height-adjusting Spacers for Flanged Bushings from P.330. \* Perpendicularity of D to flange mounting surface kgf=Nx0.101972

**Features:** Easy to assemble with bolt-on flanges. A load can be placed near the center of the bushing, evenly distributing the load and space.

### MISUMI Original

#### Medium, Center Flanged



RoHS10

Type			Outer Cylinder			Balls	Retainer	Ambient Operating Temp.	Accessory
Round Flange	Square Flange	Compact Flange	Material	Hardness	Surface Treatment	Material	Material		
LHMRD	LHMSD	LHMCD	SUJ2 Equivalent	58HRC~	-	SUJ2 Equivalent	Plastic (Duracon M90 Equivalent)	-20~80°C	Seal Material (Nitrile Rubber (-20~120°C))

  

Ⓜ Body length is approximately 1.5 times of single type, and allowable moment is approximately 4.3 times. (See Allowable Load Comparison)  
 Ⓜ For Center Flanged Type application examples, see P.314.

Part Number Type	dr	Tolerance	D		L		ℓ	H	T	d	d <sub>1</sub>	t	P.C.D.	W	F	A	Eccentricity	Rows of Balls	* Perpendicularity	Basic Load Rating			Allowable Static Moment (N·m)			Mass (g)		
			C (Dynamic) N	Co (Static) N	Co (Static) N	Co (Static) N														Co (Static) N	Co (Static) N	Co (Static) N	Co (Static) N	Co (Static) N				
LHMRD LHMSD LHMCD	6	0	12	0	29	±0.3	12	28	5	3.5	6	3.1	20	22	-	20	0.015	4	0.015	226	310	1.42	27	21	24			
	8		15	-0.013	37		16	32	24	25	-	24	29	30	452	2.12				47	39	43						
	10		19	-	-		40	29	30	-	29	32	32	-	32	508				718	4.37	85	65	77				
	12	-0.010	21	0	47	20.5	42	6	4.5	7.5	4.1	4.1	32	32	-	32	0.02	5	0.02	634	814	6.2	89	69	81			
	13		23	-0.016	65	43	33	34	-	33	38		37	22	31	640				826	6.2	109	87	102				
	16		28	-	56	25	48	38	37	22	31		43	42	24	36				1164	1448	13.1	157	132	149			
	20	-0.012	32	0	65	28.5	54	8	5.5	9	5.1	5.1	51	50	32	40	0.02	6	0.02	1554	2068	18.3	232	197	219			
	25		40	-0.019	83	37.5	62	51	50	32	40		60	58	35	49				1725	3068	25.3	481	442	452			
	30		45	-	90	40	74	10	6.6	11	6.1		60	58	35	49				2440	3974	42.7	560	482	494			

Ⓜ For Precautions for Use, see P.303. Ⓜ Select Height-adjusting Spacers for Flanged Bushings from P.330. \* Perpendicularity of D to flange mounting surface kgf=Nx0.101972

#### Allowable Load Comparison

Type	Basic Dynamic Load Rating	Basic Static Load Rating	Allowable Static Moment
Short	0.7	0.6	Approx. 0.6
Single	1	1	1
Medium	1.4	1.3	Approx. 4.3
Double	1.6	2	Approx. 6
Medium Long	1.6	1.6	Approx. 10
Long	1.6	2	Approx. 21

\* "1" represents Single Type for comparison.

dr	Unit Price					
	Medium, Pilot			Medium, Center Flanged		
	Round Flange	Square Flange	Compact Flange	Round Flange	Square Flange	Compact Flange
6	LHIRD	LHISD	LHICD	LHMRD	LHMSD	LHMCD
8						
10						
12						
13						
16						
20						
25						
30						



#### Part Number

- LHIRD12 (L Type Greased)
- LHMRD12 (G Type Greased)
- LHMSD12 (H Type Greased)
- LHMRD16 (L Type Greased)
- LHMSD16 (G Type Greased)
- LHMSD20H (H Type Greased)

Alternative grease types available.  
 For Days to Ship, Price and Performance, see P.304.