

Flanged Linear Bushings –Single Bushing with Pilot–



The Flanged Linear Ball Bushings with Pilot are designed for all Steel Misumi linear shafts. They are engineered to be working with extremely small clearance or even a slight pre-load between the shaft and the bushing balls. Choose from a variety of compact flange configurations. The Pilot feature allows you to precisely mount the bushing inside the carriage block.

Price Revision
 New Price

Outer Cylinder Material	Outer Cylinder Hardness	Ball Material	Cage Material	Temp. Range	Seal Material	Flange	Type
52100 Bearing Steel	58HRC~	52100 Bearing Steel	Plastic (Delrin Class)	-4 - 176°F	NBR (Nitrile Rubber)	Round Square	U-LHIFR U-LHIFS

Material Characteristics P.628

Round Flange

Square Flange

General Tolerance
 Unless otherwise specified use the table below.

From	To	Tolerance
0.000	5.000	±0.01
5.001	16.000	±0.02
16.001	60.000	±0.05

Thread or hole location tolerance: +0.005" non-cumulative.

Type	Part No.			D		L ±0.012	\$ Unit Price (Qty. 1 ~ 9)	
	Callout	Nominal	Tolerance	Nominal	Tolerance		U-LHIFR	U-LHIFS
							dr	
U-LHIFR U-LHIFS	0.25	1/4	0.2497 0.2493	1/2	0.5000 0.4996	0.750	9.70	11.30
	0.38	3/8	0.3747 0.3743	5/8	0.6250 0.6246	0.875	10.00	11.60
	0.50	1/2	0.4997 0.4993	7/8	0.8750 0.8746	1.250	11.60	13.60
	0.63	5/8	0.6247 0.6243	1-1/8	1.1250 1.1246	1.500	13.20	15.40
	0.75	3/4	0.7498 0.7494	1-1/4	1.2500 1.2496	1.625	15.70	18.40
	1.00	1"	0.9998 0.9994	1-9/16	1.5625 1.5621	2.250	21.80	25.80
	1.25	1-1/4	1.2499 1.2494	2	2.000 1.9995	2.625	33.20	39.20
1.50	1-1/2	1.4999 1.4993	2-3/8	2.375 2.3745	3.000	62.10	73.40	

Order Example The part number consists only of the fields with blue characters. Please refer to the table below for technical information.

Part No. U-LHIFR 0.50

Type dr

Technical Information

dr	ℓ	H	T	d	d1	t	Compatible Bolt	W1	P.C.D.	Eccentricity (Max)	Perpendicularity	No. of Ball Tracks	Load Capacity (lbf)		Mass (oz)	
													Dynamic	Static	U-LHIFR	U-LHIFS
0.25	0.188	1.250	0.219	0.156	0.250	0.141	#6	1.000	0.875	0.0005	0.0005	4	30	34	1.16	0.90
0.38	0.250	1.500	0.250	0.188	0.297	0.172	#8	1.250	1.063	0.0005	0.0005	4	32	36	1.83	1.50
0.50	0.250	1.750	0.250	0.188	0.297	0.172	#8	1.375	1.313	0.0005	0.0005	4	96	107	3.13	2.50
0.63	0.250	2.000	0.250	0.188	0.297	0.172	#8	1.500	1.563	0.0005	0.0005	4	155	156	5.02	3.97
0.75	0.313	2.188	0.313	0.219	0.344	0.203	#10	1.688	1.719	0.0006	0.0006	5	199	214	6.70	5.34
1.00	0.375	2.500	0.313	0.219	0.344	0.203	#10	2.000	2.031	0.0006	0.0006	6	327	407	11.12	9.65
1.25	0.375	3.125	0.406	0.281	0.406	0.266	1/4	2.500	2.563	0.0008	0.0008	6	486	565	22.89	19.97
1.50	0.500	3.750	0.500	0.344	0.500	0.328	5/16	3.000	3.063	0.0008	0.0008	6	713	814	36.90	31.61

Days to Ship 1 Day

Quantity Discount Rate

Quantity	1-9	10-19	20-49	50~
Rate	—	2%	3%	5%

For larger quantity orders "Days to Ship" may differ from published catalog term. P.29

Related Components
 Linear Shafts P.39

Outer Cylinder Material	Outer Cylinder Hardness	Ball Material	Cage Material	Temp. Range	Seal Material	Flange	Type
52100 Bearing Steel	58HRC~	52100 Bearing Steel	Plastic (Delrin Class)	-4 - 176°F	NBR (Nitrile Rubber)	Compact	U-LHIFC

Material Characteristics P.628

Compact Flange

General Tolerance
 Unless otherwise specified use the table below.

From	To	Tolerance
0.000	5.000	±0.01
5.001	16.000	±0.02
16.001	60.000	±0.05

Thread or hole location tolerance: +0.005" non-cumulative.

Type	Part No.			D		L ±0.012	\$ Unit Price (Qty. 1 ~ 9)	
	Callout	Nominal	Tolerance	Nominal	Tolerance		U-LHIFC	
							dr	
U-LHIFC	0.25	1/4	0.2497 0.2493	1/2	0.5000 0.4996	0.750	13.50	
	0.38	3/8	0.3747 0.3743	5/8	0.6250 0.6246	0.875	14.10	
	0.50	1/2	0.4997 0.4993	7/8	0.8750 0.8746	1.250	16.40	
	0.63	5/8	0.6247 0.6243	1-1/8	1.1250 1.1246	1.500	18.60	
	0.75	3/4	0.7498 0.7494	1-1/4	1.2500 1.2496	1.625	22.30	
	1.00	1"	0.9998 0.9994	1-9/16	1.5625 1.5621	2.250	31.00	
	1.25	1-1/4	1.2499 1.2494	2	2.000 1.9995	2.625	47.10	
1.50	1-1/2	1.4999 1.4993	2-3/8	2.375 2.3745	3.000	88.10		

Order Example The part number consists only of the fields with blue characters. Please refer to the table below for technical information.

Part No. U-LHIFC 0.63

Type dr

Technical Information

dr	ℓ	H	T	d	d1	t	Compatible Bolt	W	F	A	Eccentricity (Max)	Perpendicularity	No. of Ball Tracks	Load Capacity (lbf)		Mass (oz)
														Dynamic	Static	
0.25	0.188	1.250	0.219	0.156	0.250	0.141	#6	0.750	-	0.875	0.0005	0.0005	4	30	34	0.88
0.38	0.250	1.500	0.250	0.188	0.297	0.172	#8	0.875	-	1.063	0.0005	0.0005	4	32	36	1.34
0.50	0.250	1.750	0.250	0.188	0.297	0.172	#8	1.125	0.688	1.125	0.0005	0.0005	4	96	107	2.46
0.63	0.250	2.000	0.250	0.188	0.297	0.172	#8	1.375	0.938	1.250	0.0005	0.0005	4	155	156	4.30
0.75	0.313	2.188	0.313	0.219	0.344	0.203	#10	1.500	1.000	1.375	0.0006	0.0006	5	199	214	5.62
1.00	0.375	2.500	0.313	0.219	0.344	0.203	#10	1.875	1.313	1.563	0.0006	0.0006	6	327	407	10.10
1.25	0.375	3.125	0.406	0.281	0.406	0.266	1/4	2.313	1.500	2.063	0.0008	0.0008	6	486	565	20.74
1.50	0.500	3.750	0.500	0.344	0.500	0.328	5/16	2.688	1.813	2.438	0.0008	0.0008	6	713	814	32.56

Days to Ship 1 Day

Quantity Discount Rate

Quantity	1-9	10-19	20-49	50~
Rate	—	2%	3%	5%

For larger quantity orders "Days to Ship" may differ from published catalog term. P.29

Express Options P.30

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Contents

How to Use the Catalog

Linear Motion

Linear Shafts

Bushings

Shaft Supports
Shaft Collars

Linear Guides

Rotary Motion

Rotary Shafts

Bearings w/ Housings

Pulleys Belts Couplings

Locating Components

Locating Pins & Bushings

Locating Components

General Components

Pivot Pins
Floating Joints

Posts
Device Stands
Strut Clamps

Angle Plates
Gussets
Welded Stands

Washers
Collars

Manifolds

Urethanes
Rubbers

Plates

Misc.

Technical Data

Business Information

Index