

Linear Bushing Housing Units

-Open Wide Block Type/Shaft Guide Rails/Linear Guide Units-

CAD Data

Open Wide Block Type

Single Type RoHS

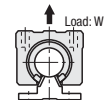
Type	Housing	Bushing-Ball	Retainer	Seal
Single LHOB	Aluminum Alloy (Clear Anodize)	1.3505/100Cr6	Resin (Duracone M90 or Equivalent)	Nitrile Rubber
Double LHOBW	Aluminum Alloy (Clear Anodize)	58HRC~	Resin (Duracone M90 or Equivalent)	Nitrile Rubber

Part Number	Type	dr	h	W	H	L		L1	H2	N	W1	S1	ℓ	h1	K	Basic Load Rating				Mass (g)	Unit Price Qty. 1-9			
						Single	Double									Single	Double	Single	Double		LHOB	LHOBW		
Single Type LHOB	10	15	36	24	32	65	20	40	7	7.5	25	M5	10	6	80	372	588	549	1100	65	140	44.90	85.40	
	13	17	40	28	39	75	26	50	8							28	510	813	784	1570	100	200	42.10	84.20
	16	20	45	33	45	85	30	60	9							32	774	1230	1180	2350	150	300	55.20	99.70
	20	23	48	39	50	95	35	70	11							35	882	1400	1370	2740	200	400	63.60	121.00
	25	27	60	47	65	130	40	90	14							40	980	1560	1570	3140	450	900	84.80	161.30
Double Type LHOBW	30	33	70	56	70	140	50	100	15	50	M8	18	14	50	1570	2490	2740	5490	630	1260	102.60	195.00		

For linear bushings, linear shafts with g6 tolerance are recommended. P.103-180

The load rating capacity for Open Wide Block Type decreases when load is applied from the open side (right diagram), such as being used with a vertical shaft or subjected to overhang load.

In such a case, please use it after correcting the load rating using with the correction factors shown in the right table. Compensated Rated Load=Basic Rated Load x Correction Factors



dr	Correction Coefficient
10-16	0.64
20	0.54
25-30	0.57

Shaft Guide Rails

LSGL RoHS

Shaft fitting bolts attached.
 S1 and d have the same hole position.

D	10-13				16-20				25-30					
	L	M	N	h	L	M	N	h	L	M	N	h		
10	200	300	400	500	600	200	300	400	500	600	300	400	500	600
13	2	3	4	5	6	2	3	4	5	6	2	3	4	5
16	50	50	50	50	50	25	75	50	25	75	50	100	50	100

Number of the holes for M and Dim. N will be up to Dim. L.

For shaft applicable to Shaft Guide Rails, refer to P.176 Female Threads on Body Type. Aluminum Alloy (Clear Anodize)

Part Number	Type	D	L Selection						H	W	F	T	B	K	J	h1	α	S1	P	d	d1	h	Unit Price Qty. 1-9					
			L200	L300	L400	L500	L600	L200															L300	L400	L500	L600		
LSGL	10	18	32	13.5	4	22	8.9	12.4	4.7	80S°	4.5	100	4.5	8	4.5	35.70	48.20	60.70	74.60	85.40								
	13	21	34	15.0	4.5	25	9.8	15.0	6.0												31.60	42.60	53.70	66.00	75.50			
	16	25	40	17.8	5	30	11.7	18.5	8.0												27.50	37.10	46.70	57.40	65.60			
	20	27	45	17.7	5	30	10.0	19.0	8.0												27.50	37.10	46.70	57.40	65.60			
	25	33	55	21.0	6	35	12.0	21.5	8.0												—	—	44.40	56.00	68.90	78.80		
30	37	60	22.8	7	40	13.0	26.5	10.3	—	—	53.40	67.20	82.60	94.50														

Linear Guide Units

LSGSB LSGS2B (2 Blocks) RoHS

Block LHOB
 Details Refer to the above
 Shaft 1.3505/100Cr6 58HRC~ (Induction Hardened)
 Rail Aluminum Alloy (Clear Anodized)

D	16-20				25-30							
	L	M	N	h	L	M	N	h				
16	300	500	800	1000	1500	1800	300	500	800	1000	1500	1800
20	2	4	6	7	10	12	2	3	4	5	8	9
25	75	25	25	50	75	75	50	50	100	100	50	100

Number of the holes for M and Dim. N will be up to Dim. L.

Part Number	Type	D	L Selection						H	h	W1	W	L1	H1	B1	L2	H2	ℓ	S1	W2	B2	T	P	d	Basic Load Rating		Mass
			C (Dynamic)	N/Co (Static)	Block (g)	Rail (kg/m)																					
LSGSB	16	45	25	2.5	45	45	33	32	30	9	M5	40	30	5	150	5.5	774	1180	150	2.58							
	20	50	27	1.5	48	50	39	35	35	11											12	882	1370	200	3.49		
	25	60	33	2.5	60	65	47	40	40	14											M6	55	35	6	200	6.5	980
LSGS2B (2 Blocks)	30	70	37	5	70	70	56	50	50	15	M8	60	40	7	200	6.5	1570	2740	630	7.39							

Part Number	Type	Unit Price Qty. 1-9					
		D	L300	L500	L800	L1000	L1500
LSGSB	16	113.60	146.90	198.70	233.90	320.30	372.20
	20	127.40	164.00	219.80	256.40	349.40	404.60
	25	158.00	196.50	257.60	298.20	400.50	461.70
	30	186.30	231.50	302.00	347.80	463.40	533.90
	18	168.90	202.00	263.90	299.10	375.50	427.30
LSGS2B	20	191.10	227.70	283.50	320.00	413.10	468.20
	25	242.80	281.40	342.50	383.00	485.40	546.50
	30	288.90	334.10	404.50	450.40	566.00	636.50

Order Example: LHO20, LSG16, LSGS2B, LSGS2B has 2 blocks.
 Days to Ship: 6 Days (Open Wide Block), 10 Days (Shaft Guide Rails-Linear Guide Units)

Linear Rotary Bushings/Linear Ball Bushings

-Single Type/Double Type-

CAD Data

Linear Rotary Bushings

LHR (With Seal) RoHS

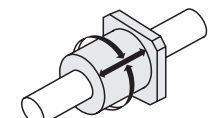
Select a shaft with h5 tolerance. (Applicable to DKC with shaft h5 tolerance P.103-180)

- Outer Cylinder: 1.3505/100Cr6, 58HRC~
- Ball: 1.3505/100Cr6
- Retainer: EN, AW-5052/AlMg2.5
- Seal: Nitrile Rubber
- Linear Motion Part: Resin, Light Alloy
- Heat Resistance Temperature: -20~80°C

Part Number	Type	dr	Tolerance	D	Tolerance	L	Tolerance	H	W	T	P.C.D.	d	d1	t	Basic Load Rating				Allowable Rotation Speed min ⁻¹	Mass (g)	Unit Price	
															C (Dynamic)	N/Co (Static)	N	Co			Qty. 1-9	10-
LHR	12	0	32	36	54	42	8	43	5.5	9	5.1	510	785	500	180	86.10	84.40					
	16	-0.009	40	45	62	50	10	51	6.6	11	6.1	775	1177	400	280	107.80	105.60					
	20	0	45	50	74	58	10	60	6.6	11	6.1	883	1373	400	420	136.90	134.20					
	25	-0.010	52	67	82	64	13	78	9	14	8.1	981	1569	400	680	171.60	168.20					
	30	0	60	74	96	75	13	78	9	14	8.1	1569	2740	400	990	217.20	212.90					

Order Example: LHR25
 Days to Ship: 6 Days P.92

- Features**
 - Bushing provides smooth infinite linear and rotary motions.
 - High rigidity enables uses under high or unbalanced load.



Linear Ball Bushings

LSBUS RoHS

Type	Type	Outer Cylinder	Ball	Retainer	Operating Ambient Temperature	
Single	LSBUS	1.3505/100Cr6	58HRC~	1.3505/100Cr6	EN	-20~110°C
Double	LSBUW	1.3505/100Cr6	58HRC~	1.3505/100Cr6	AW-5052/AlMg2.5	-20~110°C
Single	SLBUS	1.4125/X105CrMo17	56HRC~	1.4125/X105CrMo17	AW-5052/AlMg2.5	-20~120°C
Double	SLBUW	1.4125/X105CrMo17	56HRC~	1.4125/X105CrMo17	AW-5052/AlMg2.5	-20~120°C

Retaining Rings: LBU, LBUW, SLBU, SLBUW
 LBU: 1.1525/C80W1
 LBUW: Black Oxide
 SLBU: 1.4319/X3CrNiN17-8

Part Number	Type	dr	Tolerance	Maximum Strokes		Rows of Balls		ℓ	D	Tolerance	L	Tolerance	B	W	D1	(r)	Basic Load Rating				Mass (g)	Unit Price Qty. 1-9			
				Single	Double	Single	Double										Single	Double	Single	Double		Single	Double	Single	Double
Single Type LSBUS	5	0-0.008	13	6	5.9	9.4	10	0-0.009	15	0-0.12	8	9.6	1.1	11.5	0.4	131	209	106	212	4	5	7.20	16.60	9.40	21.60
	6	0-0.008	15	7	8.3	12.3	12	0	19	0-0.11	24	11.3	1.1	11.5	0.4	210	333	164	328	8	8	8.00	18.50	10.40	24.00
	8	0-0.008	24	8	8.8	16.8	15	-0.011	24	0	24	15.3	1.1	11.5	0.4	323	512	278	556	15	17	7.90	18.20	10.30	23.60
	10	0-0.008	30	8	10.8	21.8	19	0	29	0	29	19.4	1.1	11.5	0.4	499	793	408	815	30	33	8.10	18.60	10.50	24.20
	12	0-0.008	32	8	10.4	22.4	21	0	30	0	30	20.4	1.1	11.5	0.4	722	1146	579	1157	32	36	8.40	19.30	10.90	25.10
Double Type LSBUW	13	0-0.008	34	10	11.4	23.4	23	-0.013	32	0	32	20.4	1.3	22	0.8	773	1226	634	1268	45	49	9.00	20.70	11.70	26.90
	16	0-0.008	40	16	12.8	24.8	28	0	37	0	37	23.3	1.6	27	0.8	1330	2112	1029	2058	72	79	10.40	23.80	13.50	31.00
	20	0-0.010	46	28	14.8	23.8	32	0-0.016	42	0	42	27.3	1.6	30.5	0.8	1609	2554	1517	3035	94	102	13.50	31.00	17.50	40.30