

SKF

SKF Inch Linear Bearing Series



SKF Inch Linear Bearing Series

SKF®, the worlds leading supplier of ball and roller bearings, is also a major player in the worldwide linear motion market. We offer a complete range of linear motion products that includes ball and roller screws, linear actuators, profile rails (square rail) and precision rail products. In addition, we offer a complete line of metric and inch linear ball bearings and shafting.

The following information highlights SKF's new line of Inch Series Linear Ball Bearings, Housings, Shafting and accessories. Our goal is to offer the market a full line of high-quality linear motion products so that SKF will be the primary source for solutions to all of your linear motion needs.

If you have any questions or comments, please call our toll free number at 1 (800) 541-3624. Our engineers will be happy to assist you with any of your technical questions or provide immediate interchanges. In addition, our customer service department is ready to help you with any questions concerning price and delivery.

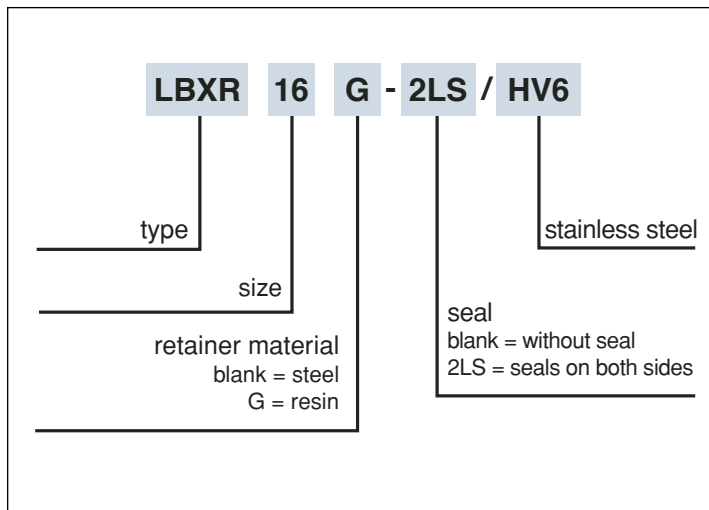


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LBXR Type

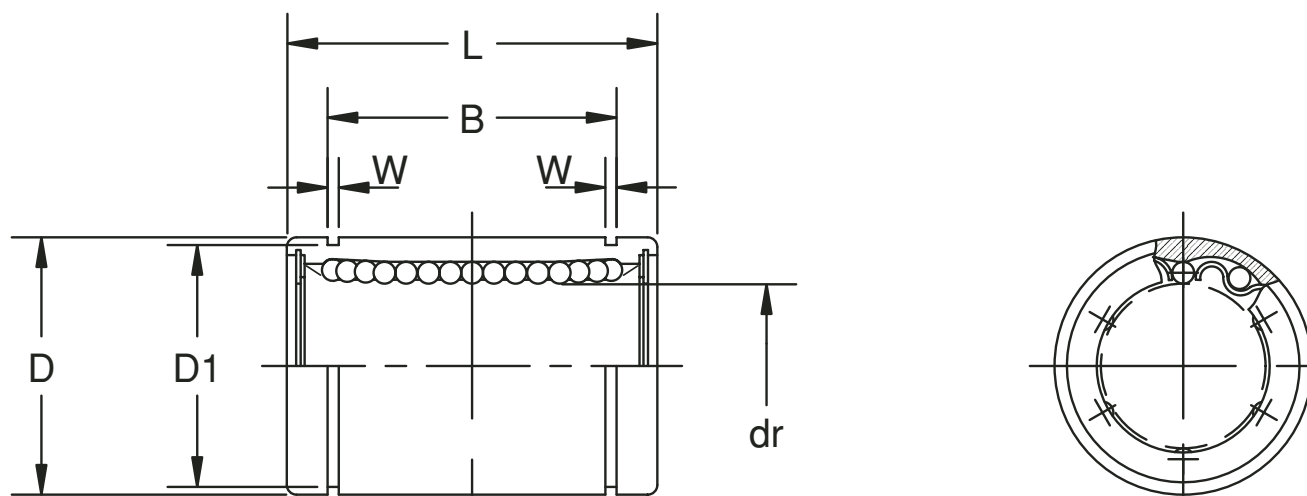
Standard Type

This type is an inch dimension series mainly used in the U.S.



Part Number			Number of ball circuits				
Standard		Stainless Steel		dr		D	
Steel retainer	Resin retainer	Resin retainer		inch mm	tolerance inch/ μ m	inch mm	tolerance inch/ μ m
					high		
—	—	LBXR 2G/HV6	4	.1250 3.175	0 -.00035	.3125 7.938	0 -.00040
—	—	LBXR 3G/HV6	4	.1875 4.763	0 -8	.3750 9.525	0 -9
LBXR 4	LBXR 4G	LBXR 4G/HV6	3*	.2500 6.350	0 -.00040 0 -9	.5000 12.700	0 -.00045 0 -11
LBXR 6	LBXR 6G	LBXR 6G/HV6	4	.3750 9.525		.6250 15.875	0 -.00050
LBXR 8	LBXR 8G	LBXR 8G/HV6	4	.5000 12.700		.8750 22.225	0 -13
LBXR 10	LBXR 10G	LBXR 10G/HV6	4	.625 15.875		1.1250 28.575	
LBXR 12	LBXR 12G	LBXR 12G/HV6	5	.7500 19.050	0 -.00040	1.2500 31.750	0 -.00065
LBXR 16	LBXR 16G	LBXR 16G/HV6	6	1.0000 25.400	0 -10	1.5625 39.688	0 -16
LBXR 20	LBXR 20G	LBXR 20G/HV6	6	1.2500 31.750	0 -.00050 0 -12	2.0000 50.800	0 -.00075
LBXR 24	LBXR 24G	LBXR 24G/HV6	6	1.5000 38.100		2.3750 60.325	0 -19
LBXR 32	LBXR 32G	LBXR 32G/HV6	6	2.0000 50.800		3.0000 76.200	0
LBXR 40	—	—	6	2.5000 63.500	0 -.00060	3.7500 95.250	-.00090 0
LBXR 48	—	—	6	3.0000 76.200	0 -15	4.50000 114.300	-22
LBXR 64	—	—	6	4.0000 101.600	0 -.00080 0 -20	6.0000 152.400	0 -.00100 0 -25

*4 rows for resin retainer type.



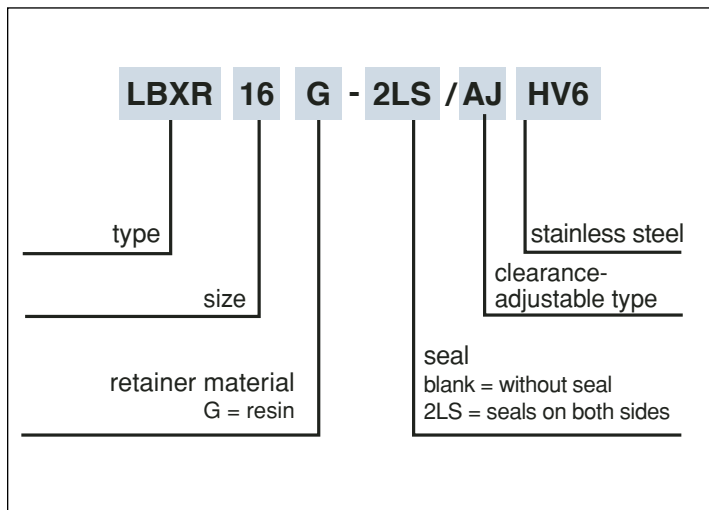
Major dimensions						eccentricity		radial clearance (maximum) inch/ μ m	Basic load rating		mass g	shaft diameter inch mm
L		B		W	D ₁				dynamic C lbs	static C ₀ lbs		
inch mm	tolerance inch/mm	inch mm	tolerance inch/mm	inch mm	inch mm	precision inch/ μ m	high inch/ μ m	inch/ μ m				
.5000 12.700	0 -0.008	.3681 9.35	0 -0.008	.0280 0.710	.2902 7.370	-	.0003 8	-.0001 -2	13	17	2.8	1/8 3.175
.5625 14.275		.4311 10.95		.0280 0.710	.3520 8.940				20	24	3.6	3/16 4.763
.7500 19.050		.5110 12.98		.0390 0.992	.4687 11.906				46	59	9.5	1/4 6.350
.8750 22.225		.6358 16.15		.0390 0.992	.5880 14.935				50	70	15	3/8 9.525
1.2500 31.750	0 -0.2	.9625 24.46	0 -0.2	.0459 1.168	.8209 20.853	.0003 8	.0005 12	-.0001 -4	114	176	42	1/2 12.700
1.5000 38.100		1.1039 28.04		.0559 1.422	1.0590 26.899				173	265	85	5/8 15.875
1.6250 41.275		1.1657 29.61		.0559 1.422	1.1760 29.870				193	307	104	3/4 19.050
2.2500 57.150		1.7547 44.57		.0679 1.727	1.4687 37.306	.0004 10	.0006 15	-.0002 -6	220	352	220	1 25.400
2.6250 66.675	0 -0.012	2.0047 50.92	0 -0.012	.0679 1.727	1.8859 47.904	.0005 12	.0008 20	-.0003 -8	352	615	465	1-1/4 31.750
3.0000 76.200		2.4118 61.26		.0859 2.184	2.2389 56.870				490	903	720	1-1/2 38.100
4.0000 101.600		3.1917 81.07		.1029 2.616	2.8379 72.085				858	1,784	1,310	2 50.800
5.0000 127.000		3.9760 100.99		.1200 3.048	3.5519 90.220				1,056	2,247	2,600	2-1/2 63.500
6.0000 152.400	0 -0.016	4.726 120.04	0 -0.016	.1200 3.048	4.3100 109.474	.0007 17	.0010 25	-.0005 -13	1,651	3,595	4,380	3 76.200
8.0000 203.200		6.258 158.95		.1389 3.530	5.745 145.923				3,168	7,820	10,200	4 101.600

1kg=2.205lbs

LBXR/AJ Type

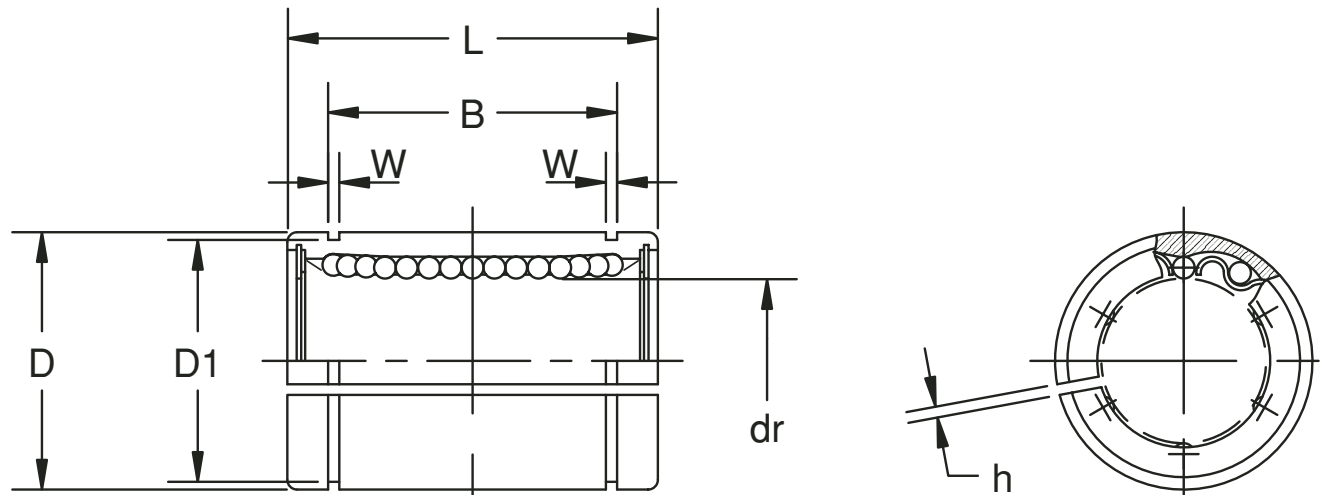
Clearance Adjustable Type

This type is an inch dimension series mainly used in the U.S.



Part Number		Number of ball circuits	dr		D	
Standard	Stainless Steel		inch mm	tolerance* inch/ μ m	inch mm	tolerance* inch/ μ m
Resin retainer	Resin retainer					
LBXR4G/AJ	LBXR4G/AJHV6	4	.2500 6.350	0 - .00040 0 -9	.5000 12.700	0 - .00045 0 -11
LBXR6G/AJ	LBXR6G/AJHV6	4	.3750 9.525		.6250 15.875	0 - .00050 0
LBXR8G/AJ	LBXR8G/AJHV6	4	5.000 12.700		.8750 22.225	0 -13
LBXR10G/AJ	LBXR10G/AJHV6	4	.625 15.875		1.1250 28.575	
LBXR12G/AJ	LBXR12G/AJHV6	5	.7500 19.050	0 - .00040 0 -10	1.2500 31.750	0 - .0065 0
LBXR16G/AJ	LBXR16G/AJHV6	6	1.0000 25.400		1.5625 39.688	0 -16
LBXR20G/AJ	LBXR20G/AJHV6	6	1.2500 31.750	0 - .00050 0 -12	2.0000 50.800	0 - .00075 0
LBXR24G/AJ	LBXR24G/AJHV6	6	1.5000 38.100		2.3750 60.325	0 -19
LBXR32G/AJ	LBXR32G/AJHV6	6	2.0000 50.800		3.0000 76.200	0 - .00090 0 -22

* Accuracy is measured prior to machining clearance slot.



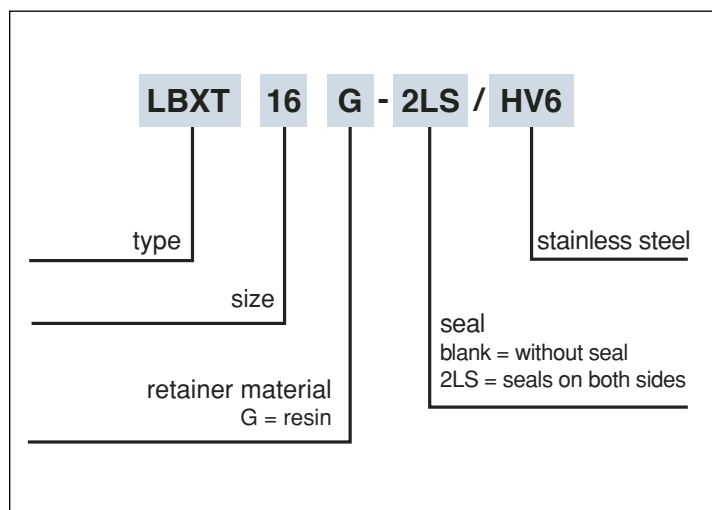
Major dimensions						h	eccentricity	Radial clearance (maximum)	Basic load rating		mass	shaft diameter
L		B		W	D ₁				dynamic	static		
inch mm	tolerance inch/mm	inch mm	tolerance inch/mm	inch mm	inch mm	inch mm	inch μm	inch/μm	C lbs	C ₀ lbs	g	inch mm
.7500 19.050	0 -0.008	.5100 12.98	0 -0.008	.0390 0.992	.4687 11.906	.04 1	.0005 12	-0.0001 -3	46	60	7.5	1/4 6.350
.8750 22.225		.6358 12.15		.0390 0.992	.5880 14.935	.04 1			50	70	13.5	3/8 9.525
1.2500 31.750		.9625 24.46		.0459 1.168	.8209 20.853	.06 1.5			114	176	41	1/2 12.700
1.5000 38.100	-0.2	1.1039 28.04	-0.2	.0559 1.422	1.0590 26.899	.06 1.5	.0005 12	-0.0001 -4	173	265	83	5/8 15.875
1.6250 41.275		1.1657 29.61		.0559 1.422	1.1760 29.870	.06 1.5			193	307	102	3/4 19.050
2.2500 57.150		1.7547 44.57		.0679 1.727	1.4687 37.306	.06 1.5			220	352	218	1 25.400
2.6250 66.675	0 -0.012	2.0047 50.92	0 -0.012	.0679 1.727	1.8859 47.904	.10 2.5	.0008 20	-0.0003 -8	352	615	455	1-1/4 31.750
3.0000 76.200		2.4118 61.26		0.859 2.184	2.2389 56.870	.12 3			490	903	710	1-1/2 38.100
4.0000 101.600		3.1917 81.07		.1029 2.616	2.8379 72.085	.12 3			858	1,784	1,290	2 50.800

1kg≐2.205lbs

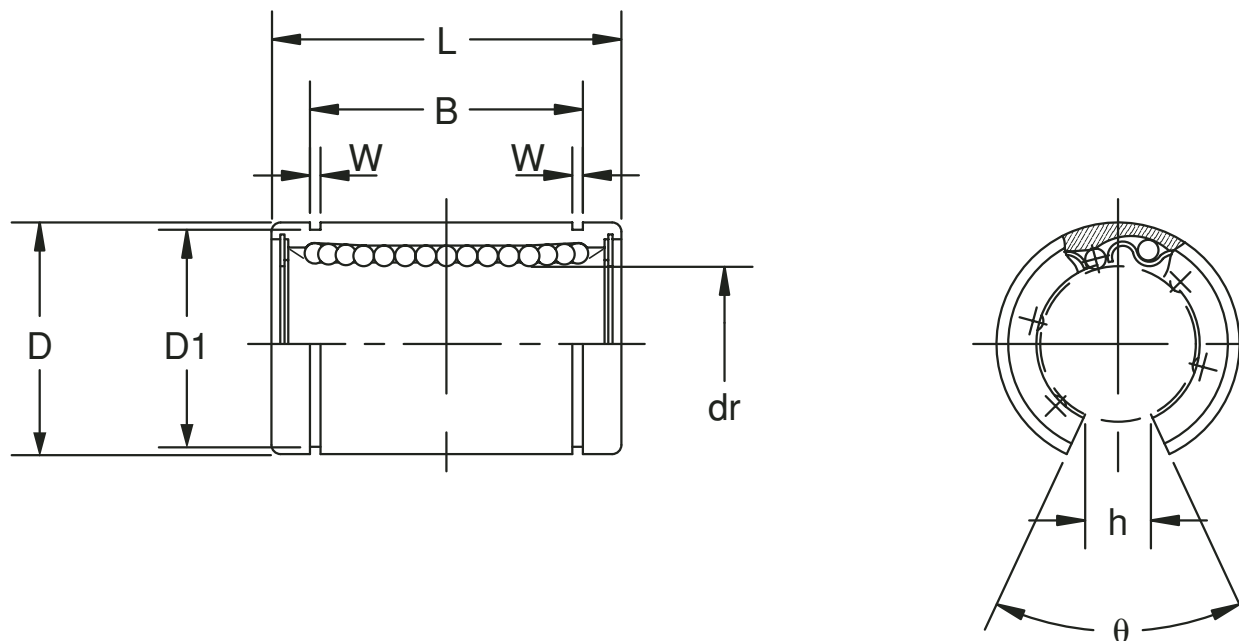
LBXT Type

Open Type

This type is an inch dimension series mainly used in the U.S.



Part Number		Number of ball circuits	dr		D	
Standard	Stainless Steel		inch mm	tolerance inch/ μ m	inch mm	tolerance inch/ μ m
Resin retainer	Resin retainer					
LBXT8G	LBXT8G/HV6	3	.5000 12.700	0 -.00040	.8750 22.225	0 -.00050
LBXT10G	LBXT10G/HV6	3	.625 15.875	0 -9	1.1250 28.575	0 -13
LBXT12G	LBXT12G/HV6	4	.7500 19.050	0 -.00040	1.2500 31.750	0 -.00065
LBXT16G	LBXT16G/HV6	5	1.0000 25.400	0 -10	1.5625 39.688	0 -16
LBXT20G	LBXT20G/HV6	5	1.2500 31.750	0 -.00050	2.0000 50.800	0 -.00075
LBXT24G	LBXT24G/HV6	5	1.5000 38.100	0 -12	2.3750 60.325	0 -19
LBXT32G	LBXT32G/HV6	5	2.0000 50.800		3.0000 76.200	0 -.00090 0 -22



Major dimensions								eccentricity*	Radial clearance (maximum)	Basic load rating		mass	shaft diameter
L		B		W	D ₁	h	θ			dynamic	static		
inch	tolerance	inch	tolerance	inch	inch	inch		inch	inch/μm	C	Co	g	inch
mm	inch/mm	mm	inch/mm	mm	mm	mm		μm	inch/μm	lbs	lbs		mm
1.2500	0	.9625	0	.0459	.8209	.34	80°	.0005	-.0001	114	176	32	1/2
31.750	-.008	24.46	-.008	1.168	20.853	7.9375							12.700
1.5000	0	1.1039	0	.0559	1.0590	.375	80°	12	-4	173	265	64	5/8
38.100	-0.2	28.04	-0.2	1.422	26.899	9.5250							15.875
1.6250		1.1657		.0559	1.1760	.4375	60°	.0006	-.0002	193	307	86	3/4
41.275		29.61		1.422	29.870	11.1125							19.050
2.2500		1.7547		.0679	1.4687	.5625	50°	15	-6	220	352	190	1
57.150	0	44.57	0	1.727	37.306	14.2875							25.400
2.6250	-0.12	2.0047	-0.12	.0679	1.8859	.625	50°	.0008	-.0003	352	615	390	1-1/4
66.675	0	50.92	0	1.727	47.904	15.875							31.750
3.0000	-0.3	2.4118	-0.3	0.859	2.2389	.75	50°	20	-8	490	903	610	1-1/2
76.200		61.26		2.184	56.870	19.05							38.100
4.0000		3.1917		.1029	2.8379	1.0	50°	.0010	-.0005	858	1,784	1,120	2
101.600		81.07		2.616	72.085	25.40		25	-13				50.800

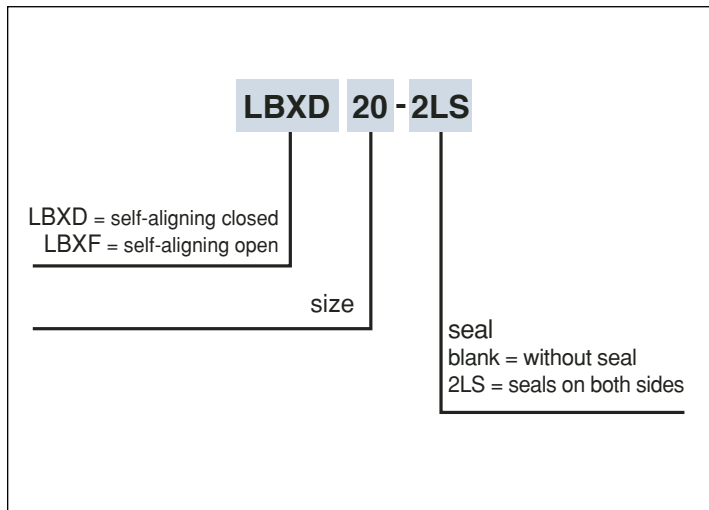
* Accuracy is measured prior to machining clearance slot.

1kg≐2.205lbs

LBXD/LBXF Type

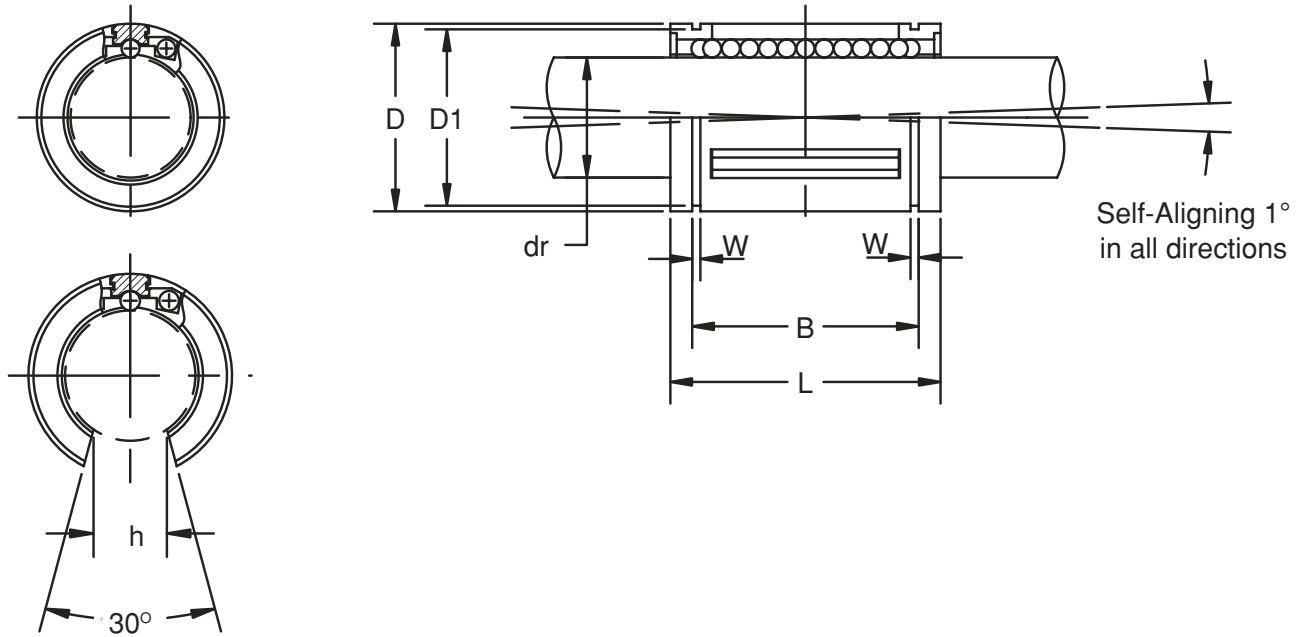
Self-Aligning Inch Type

This type is an inch dimension series mainly used in the U.S.



Part Number						Major dimensions				
Closed type			Open type			dr		D	L	
No. of ball Circuits	mass lbs		No. of ball circuits	mass lbs		inch	tolerance* inch	inch	inch	tolerance inch
LBXD3	4	.004	—	—	—	.1875	0 — .0005	.3750	.562	±.008
LBXD4	4	.009	—	—	—	.2500		.5000	.750	0
LBXD6	4	.014	—	—	—	.3750		.6250	.875	— .015
LBXD8	4	.043	LBXF8	3	.033	.5000		.8750	1.250	0 — .020
LBXD10	5	.103	LBXF10	4	.083	.6250		1.1250	1.500	
LBXD12	6	.123	LBXF12	5	.102	.7500		1.2500	1.625	
LBXD16	6	.265	LBXF16	5	.220	1.0000	0 — .0006 0/— .0008	1.5625	2.250	0/— .025 0/— .030 0/— .040
LBXD20	6	.485	LBXF20	5	.419	1.2500		2.0000	2.625	
LBXD24	6	.750	LBXF24	5	.639	1.5000		2.3750	3.000	
LBXD32	6	1.411	LBXF32	5	1.168	2.0000		3.0000	4.000	

*Based on nominal housing bore.



Basic load rating							Nominal shaft diameter inch
B		W	D1	Open type	Dynamic C	Static Co	
	Tolerance			h			
inch	inch	inch	inch	inch	lbs	lbs	inch
—	—	—	—	—	35	47	3/16
.515	0	.0390	.4687	—	60	80	1/4
.703	−.015	.0390	.5880	—	95	120	3/8
1.032	0 −.020	.0459	.8209	.313	230	290	1/2
1.112		.0559	1.0590	.375	400	500	5/8
1.272		.0559	1.1760	.438	470	590	3/4
1.886		.0679	1.4687	.563	850	1,060	1
2.011	0/−.025	.0679	1.8859	.625	1,230	1,530	1-1/4
2.422	0/−.030	.0859	2.2389	.750	1,480	1,850	1-1/2
3.206	0/−.040	.1029	2.8379	1.000	2,430	3,040	2

1 inch=25.4mm

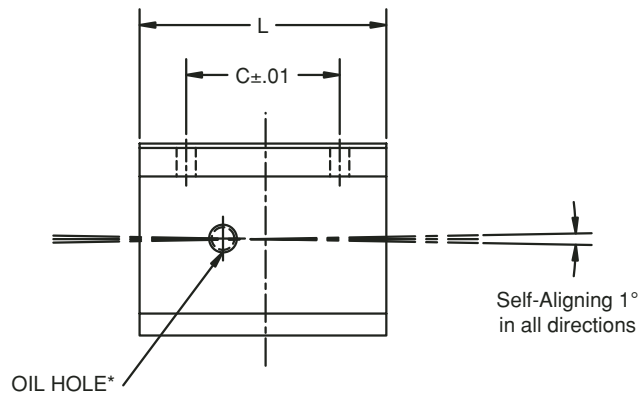
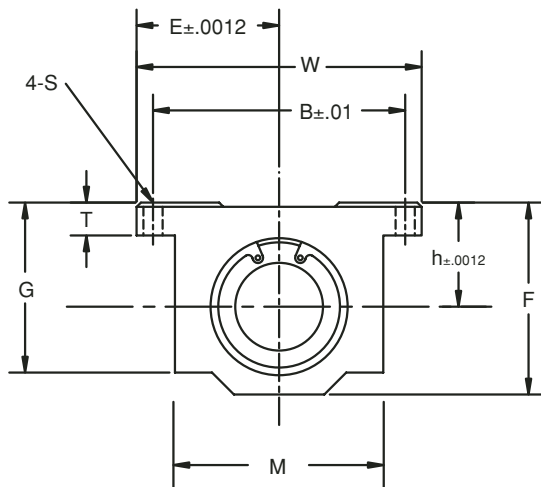
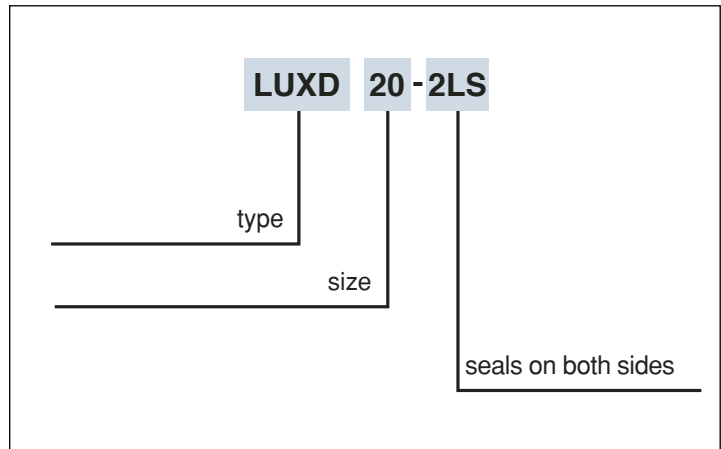
1lbs≐0.454kg

1 lbs≐4.448N

LUXD Type

Block Type

This type is an inch dimension series mainly used in the U.S.



Part Number	Nominal Shaft diameter	Major dimensions								Mounting dimensions			Basic load rating		mass
		h	E	W	L	F	T	G	M	B	C	S	dynamic	static	
													C	Co	
	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs.	lbs.	lbs.
LUXD4-2LS	1/4	.4370	.8125	1.625	1.188	.813	.188	.750	1.000	1.312	.750	.156	60	80	.090
LUXD6-2LS	3/8	.5000	.8750	1.750	1.313	.938	.188	.875	1.125	1.437	.875	.156	95	120	.120
LUXD8-2LS	1/2	.6870	1.0000	2.000	1.688	1.250	.250	1.125	1.375	1.688	1.000	.156	230	290	.248
LUXD10-2LS	5/8	.8750	1.2500	2.500	1.938	1.625	.281	1.437	1.750	2.125	1.125	.188	400	500	.465
LUXD12-2LS	3/4	.9370	1.3750	2.750	2.063	1.750	.313	1.563	1.875	2.375	1.250	.188	470	590	.553
LUXD16-2LS	1	1.1870	1.6250	3.250	2.813	2.188	.375	1.938	2.375	2.875	1.750	.219	850	1060	1.200
LUXD20-2LS	1-1/4	1.5000	2.0000	4.000	3.625	2.813	.438	2.500	3.000	3.500	2.000	.219	1230	1530	2.380
LUXD24-2LS	1-1/2	1.7500	2.3750	4.750	4.000	3.250	.500	2.875	3.500	4.125	2.500	.281	1480	1850	3.460
LUXD32-2LS	2	2.1250	3.0000	6.000	5.000	4.063	.625	3.625	4.500	5.250	3.250	.406	2430	3040	6.830

* Provided with push-in oil fitting for 1/4" to 1/2" sizes. Sizes from 5/8" to 2" offer a 1/4-28 tapped hole with a plug for adding a fitting if desired.

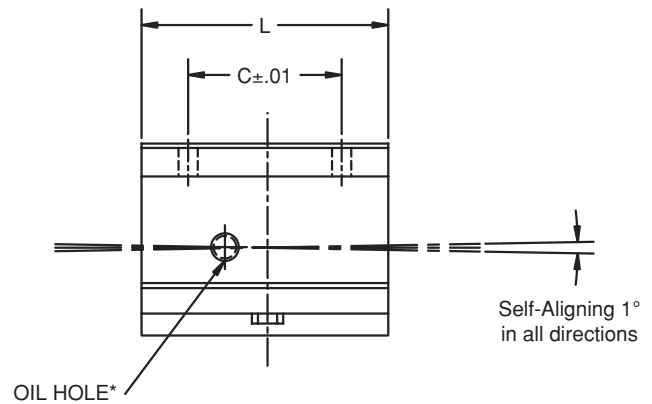
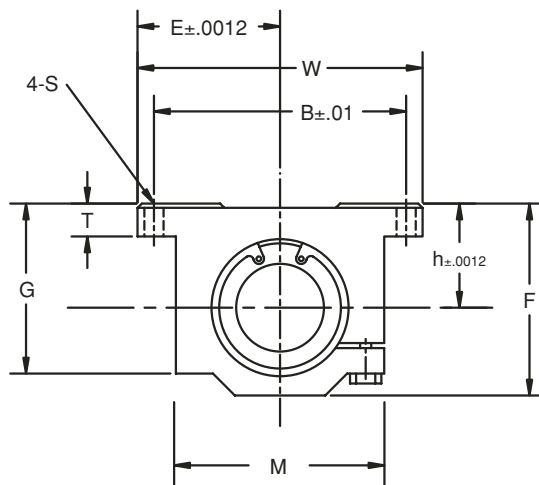
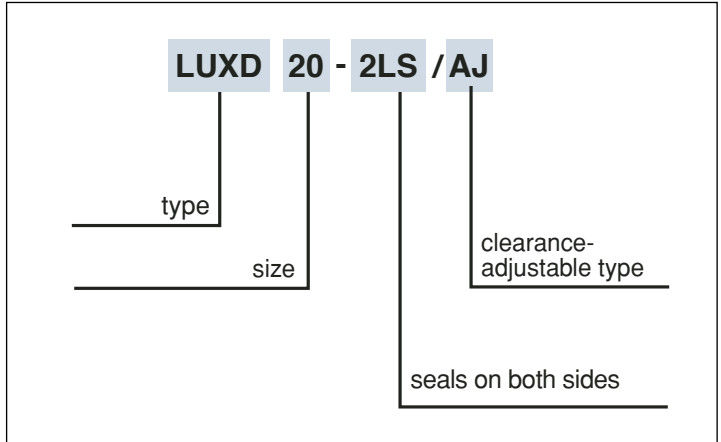
1 inch=25.4mm

1lbs≐0.454kg

1 lbs≐4.448N

Clearance Adjustable Block Type

This type is an inch dimension series mainly used in the U.S.



Part Number	Nominal Shaft diameter	Major dimensions								Mounting dimensions			Basic load rating		
													dynamic	static	mass
		h	E	W	L	F	T	G	M	B	C	S	C	Co	lbs.
	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs.	lbs.	lbs.
LUXD4-2LS/AJ	1/4	.4370	.8125	1.625	1.188	.813	.188	.750	1.000	1.312	.750	.156	60	80	.090
LUXD6-2LS/AJ	3/8	.5000	.8750	1.750	1.313	.938	.188	.875	1.125	1.437	.875	.156	95	120	.120
LUXD8-2LS/AJ	1/2	.6870	1.0000	2.000	1.688	1.250	.250	1.125	1.375	1.688	1.000	.156	230	290	.248
LUXD10-2LS/AJ	5/8	.8750	1.2500	2.500	1.938	1.625	.281	1.437	1.750	2.125	1.125	.188	400	500	.465
LUXD12-2LS/AJ	3/4	.9370	1.3750	2.750	2.063	1.750	.313	1.563	1.875	2.375	1.250	.188	470	590	.553
LUXD16-2LS/AJ	1	1.1870	1.6250	3.250	2.813	2.188	.375	1.938	2.375	2.875	1.750	.219	850	1060	1.200
LUXD20-2LS/AJ	1-1/4	1.5000	2.0000	4.000	3.625	2.813	.438	2.500	3.000	3.500	2.000	.219	1230	1530	2.380
LUXD24-2LS/AJ	1-1/2	1.7500	2.3750	4.750	4.000	3.250	.500	2.875	3.500	4.125	2.500	.281	1480	1850	3.460
LUXD32-2LS/AJ	2	2.1250	3.0000	6.000	5.000	4.063	.625	3.625	4.500	5.250	3.250	.406	2430	3040	6.830

* Provided with push-in oil fitting for 1/4" to 1/2" sizes. Sizes from 5/8" to 2" offer a 1/4-28 tapped hole with a plug for adding a fitting if desired.

1 inch=25.4mm

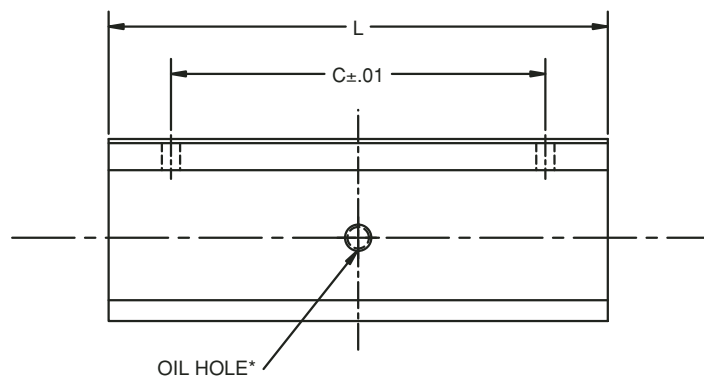
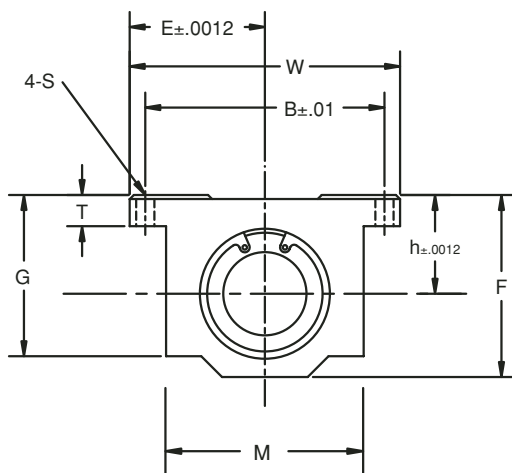
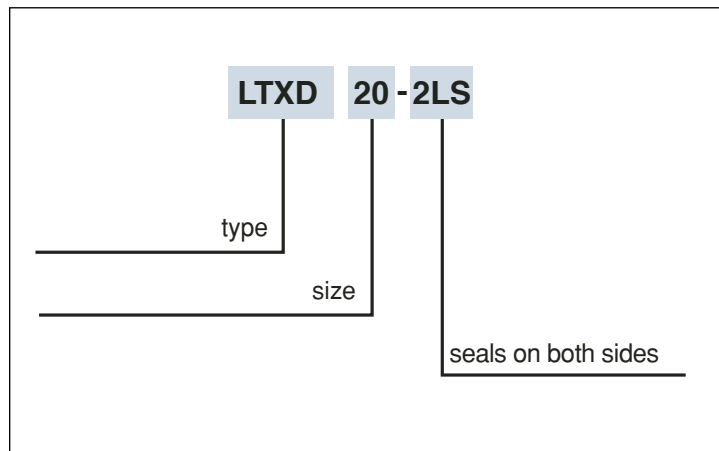
1lbs≐0.454kg

1 lbs≐4.448N

LTXD Type

Tandem Block Type

This type is an inch dimension series mainly used in the U.S.



Part Number	Nominal Shaft diameter inch	Major dimensions								Mounting dimensions			Basic load rating		
		h	E	W	L	F	T	G	M	B	C	S	dynamic	static	mass
		inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	C lbs.	Co lbs.	lbs.
LTXD4-2LS	1/4	.4370	.8125	1.625	2.500	.813	.188	.750	1.000	1.312	2.000	.156	96	160	.190
LTXD6-2LS	3/8	.5000	.8750	1.750	2.750	.938	.188	.875	1.125	1.437	2.250	.156	150	240	.250
LTXD8-2LS	1/2	.6870	1.0000	2.000	3.500	1.250	.250	1.125	1.375	1.688	2.500	.156	370	580	.510
LTXD10-2LS	5/8	.8750	1.2500	2.500	4.000	1.625	.281	1.437	1.750	2.125	3.000	.188	640	1000	1.000
LTXD12-2LS	3/4	.9370	1.3750	2.750	4.500	1.750	.313	1.563	1.875	2.375	3.500	.188	750	1180	1.200
LTXD16-2LS	1	1.1870	1.6250	3.250	6.000	2.188	.375	1.938	2.375	2.875	4.500	.219	1360	2120	2.400
LTXD20-2LS	1-1/4	1.5000	2.0000	4.000	7.500	2.813	.438	2.500	3.000	3.500	5.500	.219	1970	3060	5.000
LTXD24-2LS	1-1/2	1.7500	2.3750	4.750	9.000	3.250	.500	2.875	3.500	4.125	6.500	.281	2370	3700	7.800

* Provided with push-in oil fitting for 1/4" to 1/2" sizes. Sizes from 5/8" to 2" offer a 1/4-28 tapped hole with a plug for adding a fitting if desired.

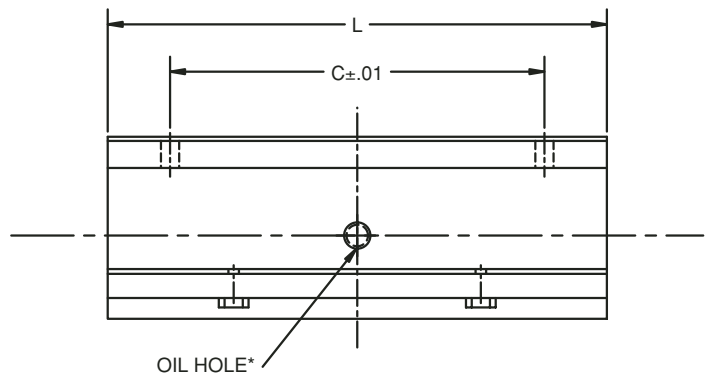
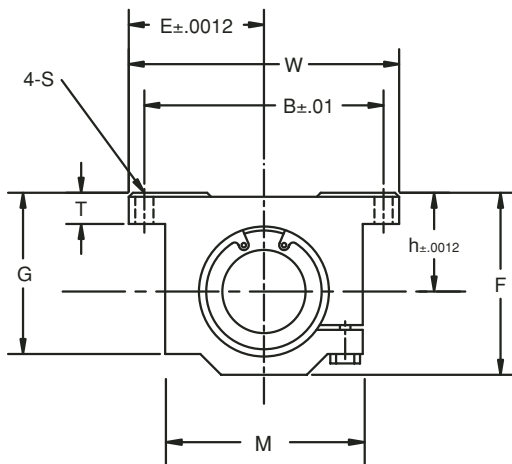
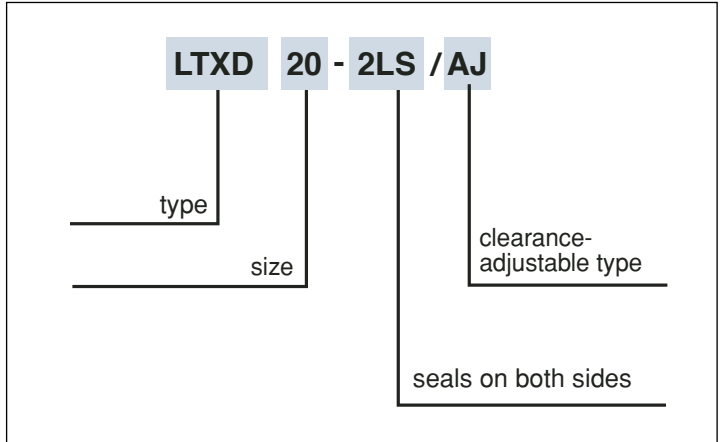
1 inch=25.4mm

1lbs $\approx$ 0.454kg

1 lbs $\approx$ 4.448N

Clearance Adjustable Tandem Block Type

This type is an inch dimension series mainly used in the U.S.



Part Number	Nominal Shaft diameter inch	Major dimensions								Mounting dimensions			Basic load rating		mass lbs.
													dynamic	static	
		h	E	W	L	F	T	G	M	B	C	S	C lbs.	Co lbs.	
LTxD4-2LS/AJ	1/4	.4370	.8125	1.625	2.500	.813	.188	.750	1.000	1.312	2.000	.156	96	160	.190
LTxD6-2LS/AJ	3/8	.5000	.8750	1.750	2.750	.938	.188	.875	1.125	1.437	2.250	.156	150	240	.250
LTxD8-2LS/AJ	1/2	.6870	1.0000	2.000	3.500	1.250	.250	1.125	1.375	1.688	2.500	.156	370	580	.510
LTxD10-2LS/AJ	5/8	.8750	1.2500	2.500	4.000	1.625	.281	1.437	1.750	2.125	3.000	.188	640	1000	1.000
LTxD12-2LS/AJ	3/4	.9370	1.3750	2.750	4.500	1.750	.313	1.563	1.875	2.375	3.500	.188	750	1180	1.200
LTxD16-2LS/AJ	1	1.1870	1.6250	3.250	6.000	2.188	.375	1.938	2.375	2.875	4.500	.219	1360	2120	2.400
LTxD20-2LS/AJ	1-1/4	1.5000	2.0000	4.000	7.500	2.813	.438	2.500	3.000	3.500	5.500	.219	1970	3060	5.000
LTxD24-2LS/AJ	1-1/2	1.7500	2.3750	4.750	9.000	3.250	.500	2.875	3.500	4.125	6.500	.281	2370	3700	7.800

* Provided with push-in oil fitting for 1/4" to 1/2" sizes. Sizes from 5/8" to 2" offer a 1/4-28 tapped hole with a plug for adding a fitting if desired.

1 inch=25.4mm

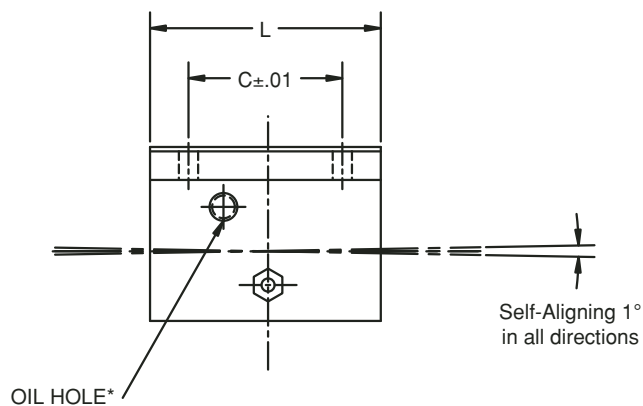
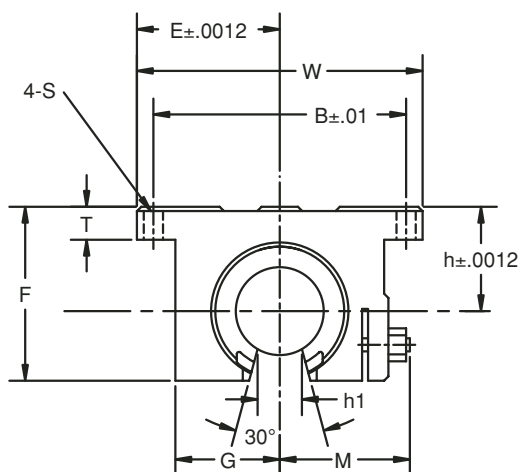
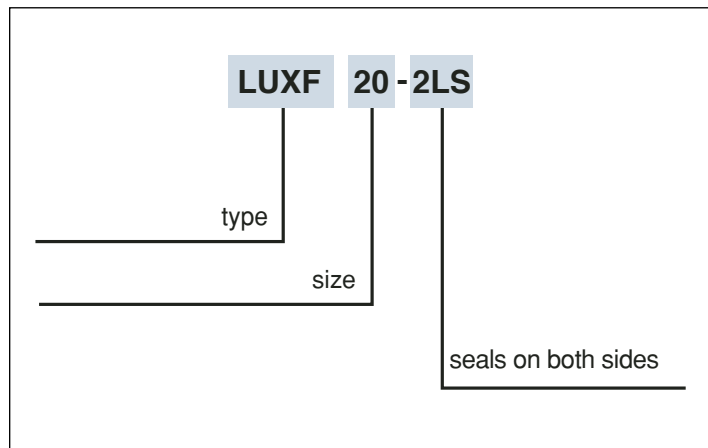
1lbs≐0.454kg

1 lbs≐4.448N

LUXF Type

Open Block Type

This type is an inch dimension series mainly used in the U.S.



Part Number	Nominal Shaft diameter inch	Major dimensions									Mounting dimensions			Basic load rating		mass lbs.
		h inch	E inch	W inch	L inch	F inch	T inch	G inch	M inch	h ₁ inch	B inch	C inch	S inch	dynamic	static	
														C lbs.	Co lbs.	
LUXF8-2LS	1/2	.6870	1.000	2.000	1.500	1.100	.250	.688	.98	.260	1.688	1.000	.156	230	290	.188
LUXF10-2LS	5/8	.8750	1.2500	2.500	1.750	1.405	.281	.875	1.15	.319	2.125	1.125	.188	400	500	.365
LUXF12-2LS	3/4	.9370	1.3750	2.750	1.875	1.535	.315	.937	1.23	.386	2.375	1.250	.188	470	590	.452
LUXF16-2LS	1	1.1870	1.6250	3.250	2.625	1.975	.375	1.188	1.48	.512	2.875	1.750	.218	850	1060	1.010
LUXF20-2LS	1-1/4	1.5000	2.0000	4.000	3.375	2.485	.437	1.500	1.88	.569	3.500	2.000	.218	1230	1530	1.980
LUXF24-2LS	1-1/2	1.7500	2.3750	4.750	3.750	2.910	.500	1.750	2.12	.681	4.125	2.500	.281	1480	1850	2.950
LUXF32-2LS	2	2.1250	3.0000	6.000	4.750	3.660	.625	2.250	2.70	.933	5.250	3.250	.406	2430	3040	5.840

* Provided with push-in oil fitting for 1/4" to 1/2" sizes. Sizes from 5/8" to 2" offer a 1/4-28 tapped hole with a plug for adding a fitting if desired.

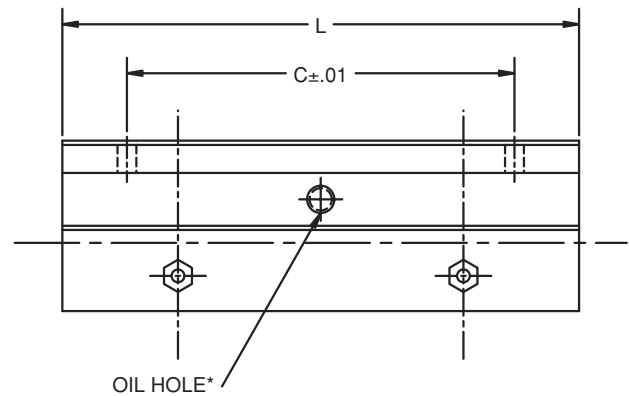
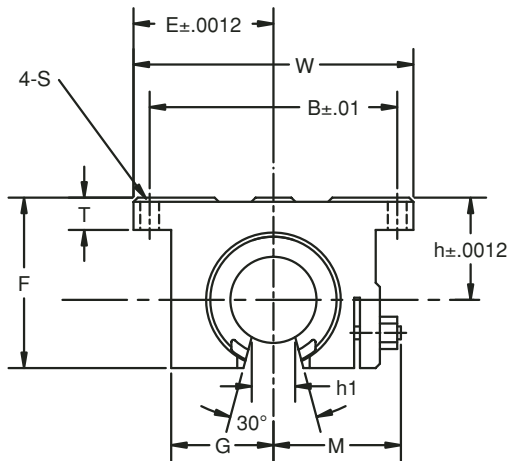
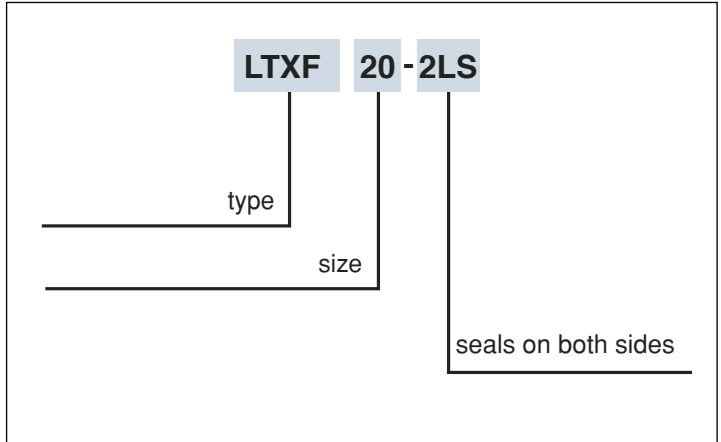
1 inch=25.4mm

1lbs≐0.454kg

1 lbs≐4.448N

Tandem Open Block Type

This type is an inch dimension series mainly used in the U.S.



Part Number	Nominal Shaft diameter inch	Major dimensions									Mounting dimensions			Basic load rating		mass lbs.
														dynamic	static	
		h	E	W	L	F	T	G	M	h ₁	B	C	S	C	Co	
		inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	inch	lbs.	lbs.	lbs.
LTXF8-2LS	1/2	.6870	1.000	2.000	3.500	1.100	.250	.688	.98	.260	1.688	2.500	.156	370	580	.400
LTXF10-2LS	5/8	.8750	1.2500	2.500	4.000	1.405	.281	.875	1.15	.319	2.125	3.000	.188	640	1000	.800
LTXF12-2LS	3/4	.9370	1.3750	2.750	4.500	1.535	.315	.937	1.23	.386	2.375	3.500	.188	750	1180	1.000
LTXF16-2LS	1	1.1870	1.6250	3.250	6.000	1.975	.375	1.188	1.48	.512	2.875	4.500	.218	1360	2120	2.000
LTXF20-2LS	1-1/4	1.5000	2.0000	4.000	7.500	2.485	.437	1.500	1.88	.569	3.500	5.500	.218	1970	3060	4.200
LTXF24-2LS	1-1/2	1.7500	2.3750	4.750	9.000	2.910	.500	1.750	2.12	.681	4.125	6.500	.281	2370	3700	6.700

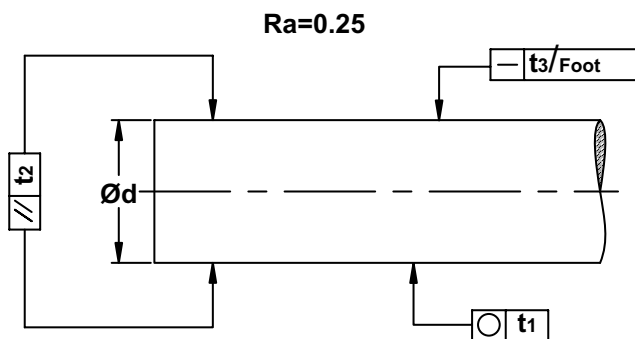
* Provided with push-in oil fitting for 1/4" to 1/2" sizes. Sizes from 5/8" to 2" offer a 1/4-28 tapped hole with a plug for adding a fitting if desired.

1 inch=25.4mm

1lbs≈0.454kg

1 lbs≈4.448N

Inch Shafting



shaft type	size	class	ESSC
LJX	4 x length	CS	ESSC 1
LJX = Steel LJXR = Stainless Steel LJXH = Chrome Plated			
4 = 1/4" 6 = 3/8" 8 = 1/2" 10 = 5/8" 12 = 3/4" 16 = 1" 20 = 1-1/4" 24 = 1-1/2" 32 = 2" 40 = 2-1/2" 48 = 3"			
length in inches			
ESSC 1 = cut ESSC 2 = chamfered ESSC 3 = chamfered to customers specs ESSC 4 = one axial hole ESSC 5 = two axial holes ESSC 6 = predrilled and tapped (PDT) ESSC 7 = radial holes per customer print ESSC 8 = PDT shaft mounted on shaft support = per customer drawing /D = per customer drawing			
CS = class S blank = class L CN = class N CD = class D			

Inch Shafting from SKF® is manufactured in a variety of types and sizes to suit particular applications.

Material

We offer precision hardened and ground carbon steel shafting (material Ck55, AISI 1055), as well as chrome plated and stainless steel shafting.

Hardness

The shaft surface hardness is from 60 to 64 HRc.

Tolerances

We offer Class L and Class S as a standard, but can also supply Class N and Class D on special requests.

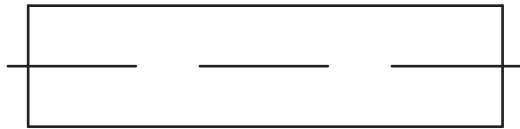
Accessories

A standard range of shaft support rails and shaft support blocks are available. We also offer custom machining of shafts to your specifications.

Designations

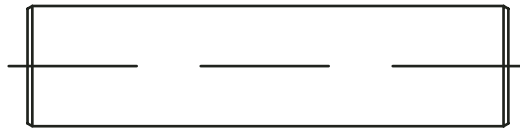
When ordering, please specify requirements in accordance with the chart at top right.

Part number prefix	Shaft diameter d		Hardening depth Rht (max) DIN6773	Tolerance class "L"	Standard tolerance ISO h6	Weight per inch length	Roundness (circular) t1	Parallelism t2	Straightness t3
	inch	mm	inch	inch	inch	lbs	inch	inch	inch
LJX 4	1/4	6.350	0.032	.2495/.2490	0 -.00035	0.014	0.00016	0.00020	0.0036
LJX 6	3/8	9.525	0.039	.3745/.3740	0 -.00035	0.031	0.00016	0.00024	0.0036
LJX 8	1/2	12.700	0.051	.4995/.4990	0 -.00047	0.055	0.00020	0.00032	0.0024
LJX 10	5/8	15.875	0.051	.6245/.6240	0 -.00047	0.087	0.00020	0.00032	0.0024
LJX 12	3/4	19.050	0.063	.7495/.7490	0 -.00050	0.125	0.00024	0.00035	0.0024
LJX 16	1	25.400	0.071	.9995/.9990	0 -.00050	0.222	0.00024	0.00035	0.0012
LJX 20	1-1/4	31.750	0.079	1.2495/1.2490	0 -.00063	0.348	0.00028	0.00043	0.0012
LJX 24	1-1/2	38.100	0.098	1.4994/1.4989	0 -.00063	0.501	0.00028	0.00043	0.0012
LJX 32	2	20.800	0.118	1.9994/1.9987	0 -.00075	0.891	0.00028	0.00043	0.0012



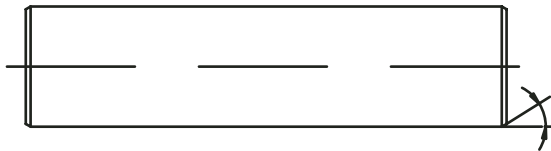
ESSC 1

Cut with no chamfer, deburr only.



ESSC 2

Cut with hand chamfer. If no specification is given, this is the standard.



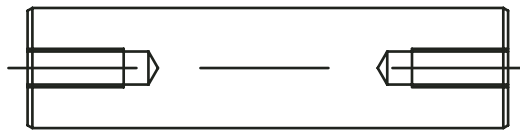
ESSC 3

Cut with chamfer according to customer drawing.



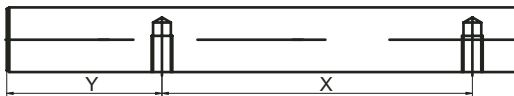
ESSC 4

Cut with chamfer and one axial hole. Please specify thread size and depth.



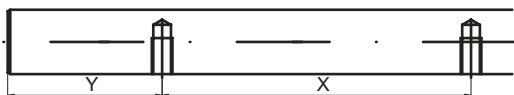
ESSC 5

Cut with chamfer and two axial holes. Please specify thread size and depth.



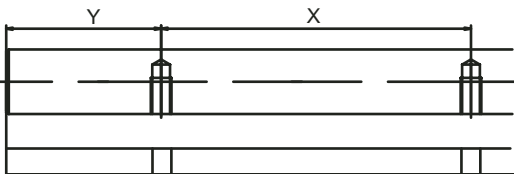
ESSC 6

Cut and chamfer as ESSC 2 with radial holes per table below.



ESSC 7

As ESSC 6, but with radial holes, and X and Y according to customer drawing.



ESSC 8

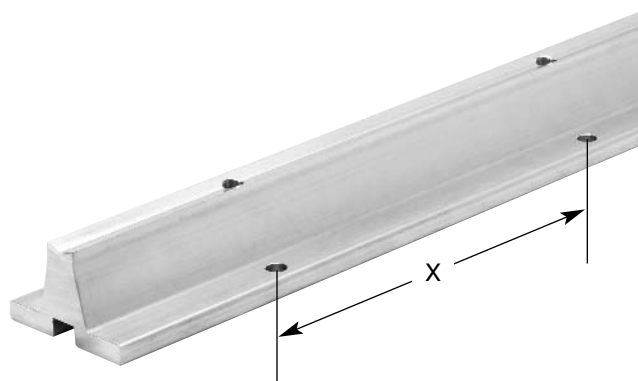
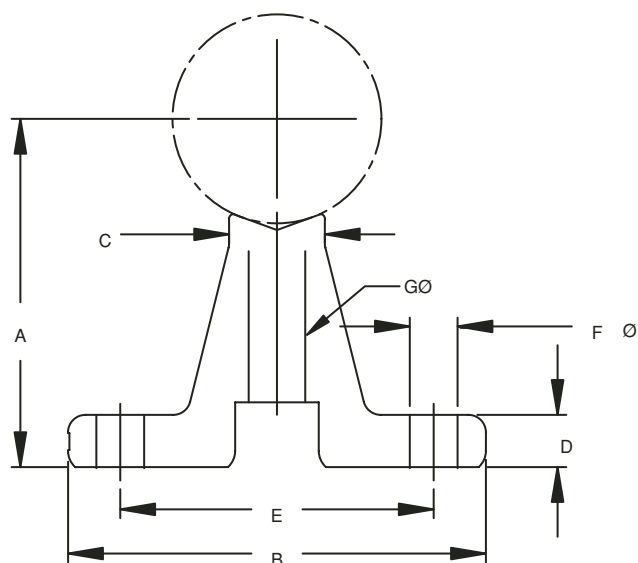
As ESSC 6, shaft mounted on LSXB shaft support.

Nom. Dia.	Diameter Tolerance	Max. Length	"X" Hole Spacing +/-0.15 (non-cumulative)	Tap Size (To center of shaft)
1/2	.4990/.4995	181	4	6-32
5/8	.6240/.6245	181	4	8-32
3/4	.7490/.7495	181	6	10-32
1	.9990/.9995	181	6	1/4-20
1-1/4	1.2490/1.2495	181	6	5/16-18
1-1/2	1.4989/1.4994	181	8	3/8-16
2	1.9987/1.9994	181	8	1/2-13

LSXB Type

Shaft Support Rail

Inch Series



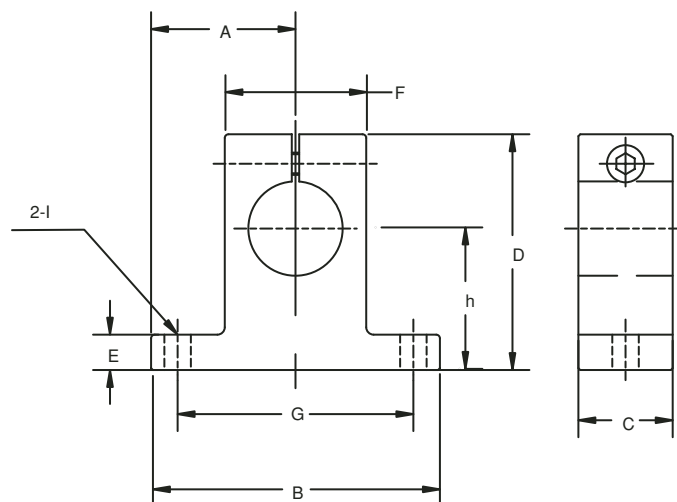
Dimensions in inches

Part number	Shaft diameter	A +/- .002	B	C	D	E	X	F		G		Wt. Per 24" (lbs)
								Bolt	Hole	Bolt	Hole	
LSXB 8	1/2	1.125	1-1/2	1/4	3/16	1	4	#6	.169	6-32X7/8	.169	1.2
LSXB 10	5/8	1.125	1-5/8	5/16	1/4	1-1/8	4	#8	.193	8-32X7/8	.193	1.5
LSXB 12	3/4	1.500	1-3/4	3/8	1/4	1-1/4	6	#10	.221	10-32X1-1/4	.221	2.0
LSXB 16	1	1.750	2-1/8	1/2	1/4	1-1/2	6	1/4	.281	1/4-20X1-1/2	.281	2.6
LSXB 20	1-1/4	2.125	2-1/2	9/16	5/16	1-7/8	6	5/16	.343	5/16-18X1-3/4	.343	3.5
LSXB 24	1-1/2	2.500	3	11/16	3/8	2-1/4	8	5/16	.343	3/8-16X2	.406	5.1
LSXB 32	2	3.250	3-3/4	7/8	1/2	2-3/4	8	3/8	.406	1/2-13X2-1/2	.531	8.2

All sizes available without pre-drilled mounting holes. Specify part number as LSXC ## when ordering.

Complete shaft-rail assemblies are also available as well as custom drilling and lengths. Please send drawing for quotation on custom configurations.

Shaft End Support Inch Series



Dimensions in inches

Part number	Shaft diameter	h +/- .001	A	B	C	D	E	F	G +/- .01	I	BOLT	mass (lbs)
LSXS 4	1/4	.6875	.7500	1.500	.500	1.063	.250	.500	1.125	.156	# 6	.033
LSXS 6	3/8	.7500	.8125	1.625	.563	1.187	.250	.688	1.250	.156	# 6	.046
LSXS 8	1/2	1.0000	1.0000	2.000	.625	1.625	.250	.875	1.500	.188	# 8	.077
LSXS 10	5/8	1.0000	1.2500	2.500	.688	1.750	.313	1.000	1.875	.218	# 10	.115
LSXS 12	3/4	1.2500	1.2500	2.500	.750	2.063	.313	1.250	2.000	.218	# 10	.163
LSXS 16	1	1.5000	1.5315	3.063	1.000	2.500	.375	1.500	2.500	.281	1/4	.300
LSXS 20	1-1/4	1.7500	1.8750	3.750	1.125	3.000	.438	2.000	3.000	.346	5/16	.560
LSXS 24	1-1/2	2.0000	2.1875	4.375	1.250	3.437	.500	2.250	3.500	.346	5/16	.750
LSXS 32	2	2.5000	2.7500	5.500	1.500	4.375	.625	3.000	4.500	.406	3/8	1.477

Linear Bearing Interchange

Contact SKF for LSR interchanges and availability.

SKF Designation	THOMSON Designation
Inch Standard	
LBXR 4 or LBXR 4 G	A-4812
LBXR 6 or LBXR 6 G	A-61014
LBXR 8 or LBXR 8 G	A-81420
LBXR 10 or LBXR 10 G	A-101824
LBXR 12 or LBXR 12 G	A-122026
LBXR 16 or LBXR 16 G	A-162536
LBXR 20 or LBXR 20 G	A-203242
LBXR 24 or LBXR 24 G	A-243848
LBXR 32 or LBXR 32 G	A-324864
LBXR 40	A-406080
LBXR 48	A-487296
LBXR 64	A-6496128

Adjustable Type

LBXR 8 G/AJ	ADJ-81420
LBXR 10 G/AJ	ADJ-101824
LBXR 12 G/AJ	ADJ-122026
LBXR 16 G/AJ	ADJ-162536
LBXR 20 G/AJ	ADJ-203242
LBXR 24 G/AJ	ADJ-243848
LBXR 32 G/AJ	ADJ-324864

Open Type

LBXT 8 G	OPN-81420
LBXT 10 G	OPN-101824
LBXT 12 G	OPN-122026
LBXT 16 G	OPN-162536
LBXT 20 G	OPN-203242
LBXT 24 G	OPN-243848
LBXT 32 G	OPN-324864

Self Aligning Type Closed Type

LBXD 4	SUPER-4
LBXD 6	SUPER-6
LBXD 8	SUPER-8
LBXD 10	SUPER-10
LBXD 12	SUPER-12
LBXD 16	SUPER-16
LBXD 20	SUPER-20
LBXD 24	SUPER-24
LBXD 32	SUPER-32

Open Type

LBXF 8	SUPER-8-OPN
LBXF 10	SUPER-10-OPN
LBXF 12	SUPER-12-OPN
LBXF 16	SUPER-16-OPN
LBXF 20	SUPER-20-OPN
LBXF 24	SUPER-24-OPN
LBXF 32	SUPER-32-OPN
LBXF 8-2LS	SUPER-8-OPN-DD
LBXF 10-2LS	SUPER-10-OPN-DD
LBXF 12-2LS	SUPER-12-OPN-DD
LBXF 16-2LS	SUPER-16-OPN-DD

SKF Designation	THOMSON Designation
Stainless Steel Type with Resin Retainer Closed Type	
LBXR 4 G/HV6	A-4812-SS
LBXR 6 G/HV6	A-61014-SS
LBXR 8 G/HV6	A-81420-SS
LBXR 10 G/HV6	A-101824-SS
LBXR 12 G/HV6	A-122026-SS
LBXR 16 G/HV6	A-162536-SS

Adjustable Type

LBXR 8 G/AJHV6	ADJ-81420-SS
LBXR 10 G/AJHV6	ADJ-101824-SS
LBXR 12 G/AJHV6	ADJ-122026-SS
LBXR 16 G/AJHV6	ADJ-162536-SS

Open Type

LBXT 8 G/HV6	OPN-81420-SS
LBXT 10 G/HV6	OPN-101824-SS
LBXT 12 G/HV6	OPN-122026-SS
LBXT 16 G/HV6	OPN-162536-SS

Inch Series Self Aligning Units Block Type

LUXD 4-2LS	SPB-4
LUXD 6-2LS	SPB-6
LUXD 8-2LS	SPB-8
LUXD 10-2LS	SPB-10
LUXD 12-2LS	SPB-12
LUXD 16-2LS	SPB-16
LUXD 20-2LS	SPB-20
LUXD 24-2LS	SPB-24
LUXD 32-2LS	SPB-32

Adjustable Type

LUXD 4-2LS/AJ	SPB-4-ADJ
LUXD 6-2LS/AJ	SPB-6-ADJ
LUXD 8-2LS/AJ	SPB-8-ADJ
LUXD 10-2LS/AJ	SPB-10-ADJ
LUXD 12-2LS/AJ	SPB-12-ADJ
LUXD 16-2LS/AJ	SPB-16-ADJ
LUXD 20-2LS/AJ	SPB-20-ADJ
LUXD 24-2LS/AJ	SPB-24-ADJ
LUXD 32-2LS/AJ	SPB-32-ADJ

Open Type

LUXF 8-2LS	SPB-8-OPN
LUXF 10-2LS	SPB-10-OPN
LUXF 12-2LS	SPB-12-OPN
LUXF 16-2LS	SPB-16-OPN
LUXF 20-2LS	SPB-20-OPN
LUXF 24-2LS	SPB-24-OPN
LUXF 32-2LS	SPB-32-OPN

SKF Designation	THOMSON Designation
Inch Series Self Aligning Double Wide Units Block Type	
LTXD 4-2LS	TWN-4
LTXD 6-2LS	TWN-6
LTXD 8-2LS	TWN-8
LTXD 10-2LS	TWN-10
LTXD 12-2LS	TWN-12
LTXD 16-2LS	TWN-16
LTXD 20-2LS	TWN-20
LTXD 24-2LS	TWN-24

Adjustable Type

LTXD 4-2LS/AJ	TWN-4-ADJ
LTXD 6-2LS/AJ	TWN-6-ADJ
LTXD 8-2LS/AJ	TWN-8-ADJ
LTXD 10-2LS/AJ	TWN-10-ADJ
LTXD 12-2LS/AJ	TWN-12-ADJ
LTXD 16-2LS/AJ	TWN-16-ADJ
LTXD 20-2LS/AJ	TWN-20-ADJ
LTXD 24-2LS/AJ	TWN-24-ADJ

Open Type

LTXF 8-2LS	TWN-8-OPN
LTXF 10-2LS	TWN-10-OPN
LTXF 12-2LS	TWN-12-OPN
LTXF 16-2LS	TWN-16-OPN
LTXF 20-2LS	TWN-20-OPN
LTXF 24-2LS	TWN-24-OPN

End Support Blocks

LSXS 4	SB-4
LSXS 6	SB-6
LSXS 8	SB-8
LSXS 10	SB-10
LSXS 12	SB-12
LSXS 16	SB-16
LSXS 20	SB-20
LSXS 24	SB-24
LSXS 32	SB-32

Shaft Support – Predrilled

LSXB 8	SR 8-PD
LSXB 10	SR 10-PD
LSXB 12	SR 12-PD
LSXB 16	SR 16-PD
LSXB 20	SR 20-PD
LSXB 24	SR 24-PD
LSXB 32	SR 32-PD

Shaft Support – Not Drilled

LSXC 8	SR8
LSXC 10	SR10
LSXC 12	SR12
LSXC 16	SR16
LSXC 20	SR20
LSXC 24	SR24
LSXC 32	SR32

*Notes: 1) All the linear bearings are available with 2 integral seals. 2) Not all the linear bearings we offer are shown in this table. Please check catalog for all available sizes/options.



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