
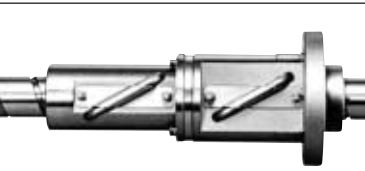





**B-I-7.4 L Type (Medium · high helix lead) Ball Screws**

**(1) Product categories**

There are several L Type models by difference in the preload system (Table I-7·4). Since the leads are in the range from 1/2 to the same length of the shaft diameter (medium · high helix lead), L Type ball screws are suitable for high-speed operation.

**Table I-7·4 Classification of L Type ball screws**

Nut models	Shape	Flange shape	Nut shape	Recirculation system Preload system	Page
LSFT		Flanged d=20 or under Rectangle d=25 or over Circular II	d=20 or under Circular d=25 or over Projecting- tube type	Return tube  Non preloaded, slight axial play	B385
LPFT		Flanged d=20 or under Rectangle d=25 or over Circular II	d=20 or under Circular d=25 or over Projecting- tube type	Tube  P preload (light preload) Spacer ball 1:1	B389
LDFT		Flanged  Circular II	Circular	Return tube  D preload (medium preload) (heavy preload)	B393
LFFT		Flanged to flanged  Circular I	Projecting- tube type	Return tube  D preload (medium preload) (heavy preload)	B395

Nut models	Shape	Flange shape	Nut shape	Recirculation system Preload system	Page
LSFC		Flanged	Circular	End cap  Non preloaded, slight axial play	B397
LPFC		Flanged	Circular	End cap P preload (light preload) No spacer ball	B397

**(2) Accuracy**

Grades of C1, C2, C3, C5, Ct7 are available.  
\* Please consult NSK for C0 grade.

**(3) Precaution in designing**

For end cap system, please note that it is impossible to assemble the nut unless one end of ball thread of screw shaft is cut through, and unless the shaft end of this side is smaller than the ball groove root diameter.

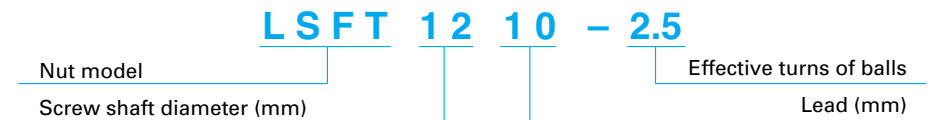
**(4) Special ball screw specifications**

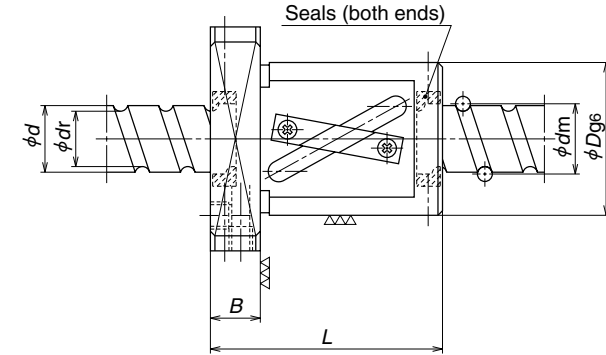
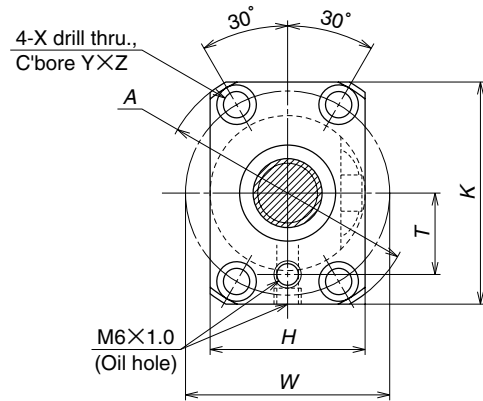
L Series is based on the combinations of dimensional factors in the table. However, NSK manufactures other combinations, as well as flanges in special shapes. Please consult NSK.

**(5) Model number**

A model number that indicates specification factors is structured as shown below.

**(Example) Nut model LSFT; shaft diameter 12 mm; lead 10 mm; effective turns of balls 2.5**





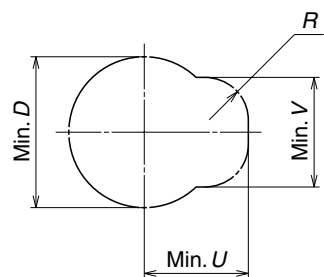
Model No.	Shaft dia. <i>d</i>	Lead <i>l</i>	Ball dia. <i>D<sub>w</sub></i>	Ball circle dia. <i>d<sub>m</sub></i>	Root dia. <i>d<sub>r</sub></i>	Effective turns of balls Turns × Circuits	Basic load rating (N)	
							Dynamic <i>C<sub>a</sub></i>	Static <i>C<sub>0s</sub></i>
<b>LSFT 1210-2.5</b>	12	10	2.381	12.5	10.0	2.5×1	3750	6480
<b>LSFT 1408-2.5</b>	14	8	3.175	14.5	11.2	2.5×1	6790	11700
<b>LSFT 1510-2.5</b>	15	10	3.175	15.5	12.2	2.5×1	7070	12800
<b>LSFT 1616-1.5</b>	16	16	3.175	16.75	13.4	1.5×1	4710	8110
<b>LSFT 2010-2.5</b>	20	10	3.969	21.0	16.9	2.5×1	10900	21700
<b>LSFT 2016-2.5</b>		16	3.969	21.0	16.9	2.5×1	10900	21700
<b>LSFT 2020-1.5</b>		20	3.969	21.0	16.9	1.5×1	7040	12700

- Remarks
1. Ball screw with a shaft diameter of 12 mm has one lubrication oil hole on the flange surface.(position T).
  2. Seal is standard. Outside dimensions does not change when the seal is removed.
  3. Right turn screw is standard. "L" is added to the end of the model code for left turn screw.

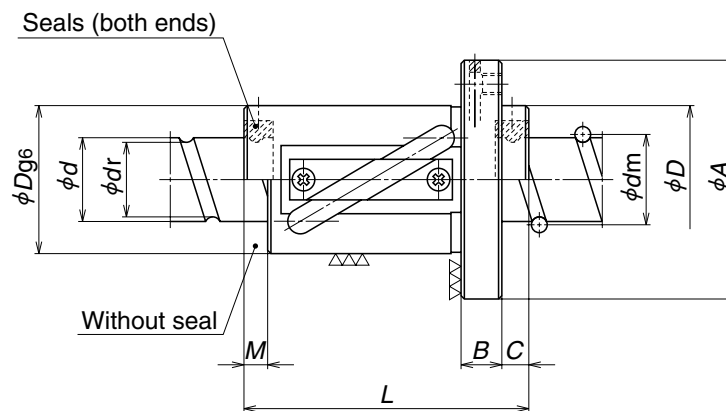
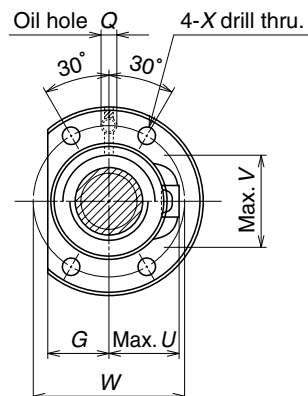
Unit: mm

Axial rigidity <i>K</i> (N/μm)	Ball nut dimensions										
	<i>D</i>	<i>A</i>	<i>H</i>	<i>K</i>	<i>B</i>	<i>L</i>	<i>W</i>	<i>X</i>	<i>Y</i>	<i>Z</i>	<i>T</i>
110	30	50	32	45	10	50	40	4.5	8	4.5	15
140	34	57	34	50	11	46	45	5.5	9.5	5.5	17
150	34	57	34	50	11	51	45	5.5	9.5	5.5	17
100	40	63	40	55	12	56	51	5.5	9.5	5.5	17
202	46	74	46	66	13	54	59	6.6	11	6.5	24
202	46	74	46	66	13	72	59	6.6	11	6.5	24
127	46	74	46	66	13	63	59	6.6	11	6.5	24

4. Rigidity in the Table is theoretical value obtained from the elastic deformation between screw groove and ball when the axial load is 30% of the basic dynamic load rating (*C<sub>a</sub>*). Refer to "Technical Description" (Page B521) if axial load differs from the conditions above, or when considering change in the deformation of the ball nut itself.



Housing hole and its clearance

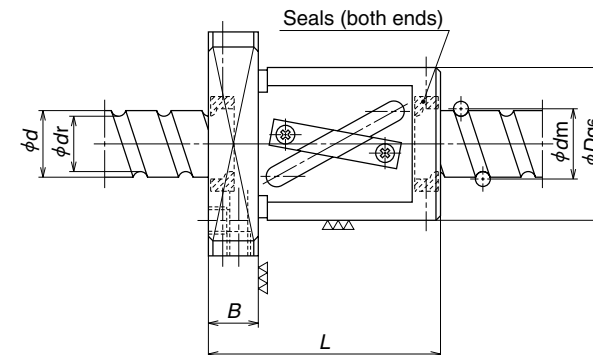
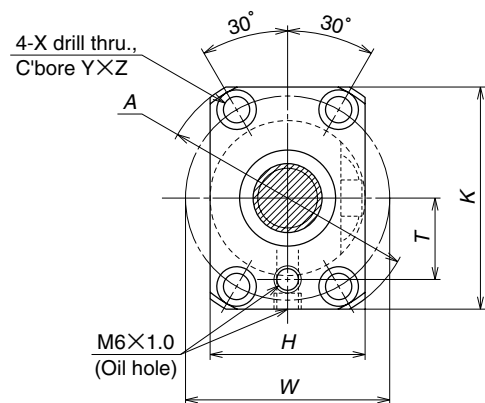


Model No.	Shaft dia. <i>d</i>	Lead <i>l</i>	Ball dia. <i>D<sub>w</sub></i>	Ball circle dia. <i>d<sub>m</sub></i>	Root dia. <i>d<sub>r</sub></i>	Effective turns of balls Turns × Circuits	Basic load rating (N)	
							Dynamic <i>C<sub>s</sub></i>	Static <i>C<sub>0s</sub></i>
LSFT 2516-2.5 LSFT 2516-3	25	16	4.762	26.25	21.3	2.5×1 1.5×2	15700 18400	32800 38200
LSFT 2520-2.5 LSFT 2520-3		20	4.762	26.25	21.3	2.5×1 1.5×2	15700 18400	32800 38200
LSFT 2525-1.5		25	4.762	26.25	21.3	1.5×1	10100	19100
LSFT 3220-2.5 LSFT 3220-3	32	20	4.762	33.25	28.3	2.5×1 1.5×2	17900 21000	41800 49600
LSFT 3225-2.5 LSFT 3225-3		25	4.762	33.25	28.3	2.5×1 1.5×2	17900 21000	41800 49600
LSFT 3232-1.5		32	4.762	33.25	28.3	1.5×1	11500	24800
LSFT 4025-2.5 LSFT 4025-3	40	25	6.35	41.75	35.1	2.5×1 1.5×2	28500 33400	70000 82400
LSFT 4032-2.5		32	6.35	41.75	35.1	2.5×1	28500	70000
LSFT 4040-1.5		40	6.35	41.75	35.1	1.5×1	18400	41200
LSFT 5025-2.5 LSFT 5025-3	50	25	7.938	52.25	44.0	2.5×1 1.5×2	42700 49900	109000 133000
LSFT 5032-2.5 LSFT 5032-3		32	7.938	52.25	44.0	2.5×1 1.5×2	42700 49900	109000 133000
LSFT 5040-2.5		40	7.938	52.25	44.0	2.5×1	42700	109000
LSFT 5050-1.5	50	7.938	52.25	44.0	1.5×1	27500	66500	
LSFT 6340-2.5 LSFT 6340-3	63	40	7.938	65.25	57.0	2.5×1 1.5×2	48500 56800	139000 165000
LSFT 6350-1.5		50	7.938	65.25	57.0	1.5×1	31300	82500
LSFT 6350-2.5		50	7.938	65.25	57.0	2.5×1	48500	139000

Remarks 1. If there is no seal, the nut length is shorter by the lengths of "M" and "C" than those with a seal.  
2. Right turn screw is standard. "L" is added to the end of the model code for left turn screw.

Axial rigidity <i>K</i> (N/μm)	Ball nut dimensions												
	<i>D</i>	<i>A</i>	<i>G</i>	<i>B</i>	<i>C</i>	<i>L</i>	<i>M</i>	<i>W</i>	<i>X</i>	<i>U</i>	<i>V</i>	<i>R</i>	<i>Q</i>
250 295	44	71	23	12	8	84 100	6	57	6.6	31	35	12	M6×1
250 295	44	71	23	12	8	96 116	7	57	6.6	31	35	12	M6×1
157	44	71	23	12	10	90	10	57	6.6	32	34	12	M6×1
300 360	51	85	26	15	8	99 119	7	67	9	34	42	12	M6×1
300 360	51	85	26	15	10	117 142	10	67	9	34	42	12	M6×1
190	51	85	26	15	12	109	13	67	9	34	42	12	M6×1
375 444	64	106	33	18	10	123 148	10	84	11	42	52	15	Rc1/8
375	64	106	33	18	12	146	13	84	11	42	52	15	Rc1/8
237	64	106	33	18	14	133	16	84	11	42	52	15	Rc1/8
462 547	80	126	41	22	11	129 154	11	102	14	52	64	19	Rc1/8
462 547	80	126	41	22	12	151 183	14	102	14	52	64	19	Rc1/8
462	80	126	41	22	14	178	17	102	14	52	64	19	Rc1/8
290	80	126	41	22	16	161	21	102	14	52	64	19	Rc1/8
560 667	97	144	49	22	14	178 218	15	120	14	58	77	19	Rc1/8
346 560	97	144	49	22	16	161 211	19	120	14	58	77	19	Rc1/8

3. Rigidity in the Table is theoretical value obtained from the elastic deformation between screw groove and ball when the axial load is 30% of the basic dynamic load rating (*C<sub>s</sub>*). Refer to "Technical Description" (Page B521) if axial load differs from the conditions above, or when considering change in the deformation of the ball nut itself.



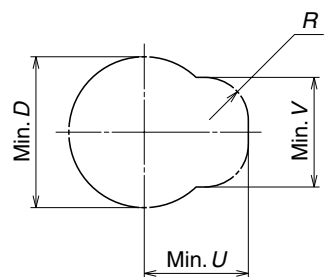
Model No.	Shaft dia. <i>d</i>	Lead <i>l</i>	Ball dia. <i>D<sub>w</sub></i>	Ball circle dia. <i>d<sub>m</sub></i>	Root dia. <i>d<sub>r</sub></i>	Effective turns of balls Turns × Circuits	Basic load rating (N)	
							Dynamic <i>C<sub>a</sub></i>	Static <i>C<sub>0s</sub></i>
LPFT 1210-2.5	12	10	2.381	12.5	10.0	2.5×1	2360	3240
LPFT 1408-2.5	14	8	3.175	14.5	11.2	2.5×1	4280	5840
LPFT 1510-2.5	15	10	3.175	15.5	12.2	2.5×1	4450	6380
LPFT 1616-1.5	16	16	3.175	16.75	13.4	1.5×1	3600	5410
LPFT 2010-2.5	20	10	3.969	21.0	16.9	2.5×1	6880	10800
LPFT 2016-2.5		16	3.969	21.0	16.9	2.5×1	6880	10800
LPFT 2020-1.5		20	3.969	21.0	16.9	1.5×1	5370	8450

- Remarks
- Ball screw with a shaft diameter of 12 mm has one lubrication oil hole on the flange surface.(position T).
  - Seal is standard. Outside dimensions does not change when the seal is removed.
  - Right turn screw is standard. "L" is added to the end of the model code for left turn screw.

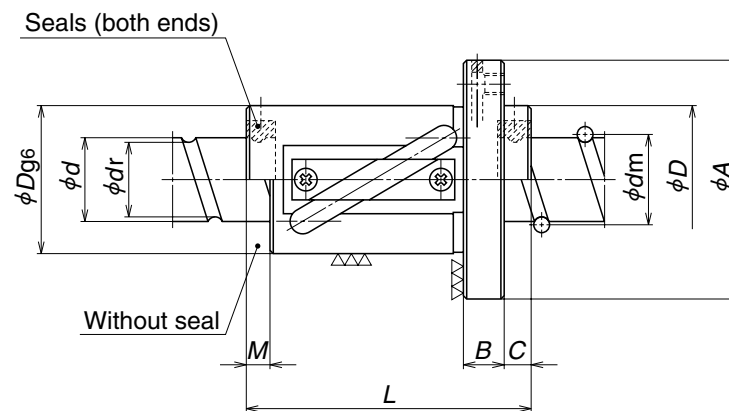
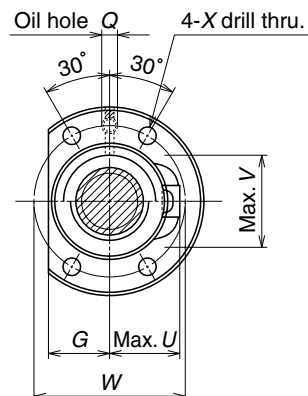
Unit: mm

Axial rigidity <i>K</i> (N/μm)	Ball nut dimensions										
	<i>D</i>	<i>A</i>	<i>H</i>	<i>K</i>	<i>B</i>	<i>L</i>	<i>W</i>	<i>X</i>	<i>Y</i>	<i>Z</i>	<i>T</i>
90	30	50	32	45	10	50	40	4.5	8	4	15
120	34	57	34	50	11	46	45	5.5	9.5	5.5	17
127	34	57	34	50	11	51	45	5.5	9.5	5.5	17
110	40	63	40	55	12	56	51	5.5	9.5	5.5	17
169	46	74	46	66	13	54	59	6.6	11	6.5	24
169	46	74	46	66	13	72	59	6.6	11	6.5	24
137	46	74	46	66	13	63	59	6.6	11	6.5	24

- Load balls and spacer balls are installed at a ratio of 1:1. Therefore, the basic load rating differs from those of other models.
- Rigidity in the Table is theoretical value obtained from the elastic deformation between screw groove and ball when the preload is 5% of the basic dynamic load rating (*C<sub>a</sub>*), and the axial load is applied to it. Refer to "Technical description" (Page B521) if preload differs from the conditions above, or when considering change in the deformation of the ball nut itself.



Housing hole and its clearance

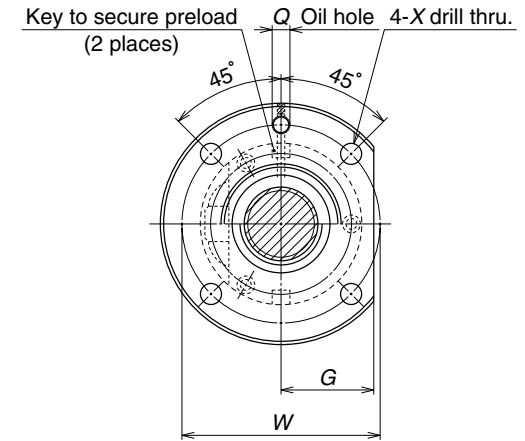
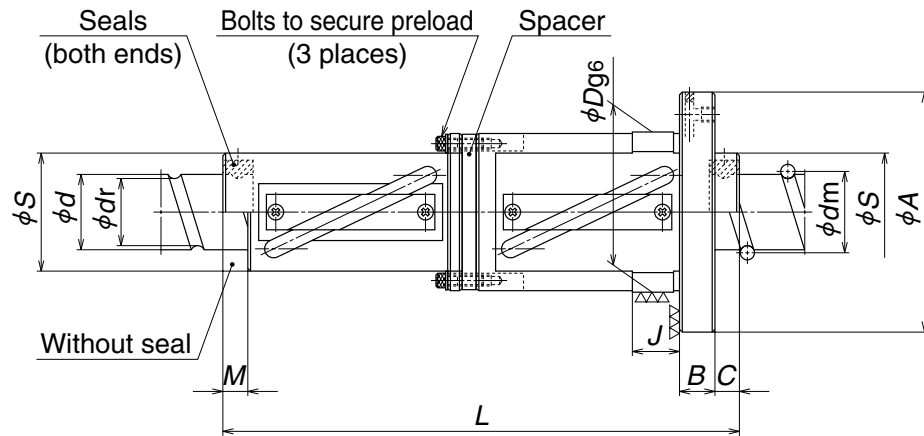


Model No.	Shaft dia. <i>d</i>	Lead <i>l</i>	Ball dia. <i>D<sub>w</sub></i>	Ball circle dia. <i>d<sub>m</sub></i>	Root dia. <i>d<sub>r</sub></i>	Effective turns of balls Turns × Circuits	Basic load rating (N)	
							Dynamic <i>C<sub>s</sub></i>	Static <i>C<sub>0s</sub></i>
LPFT 2516-2.5 LPFT 2516-3	25	16	4.762	26.25	21.3	2.5×1 1.5×2	9900 11600	16400 19100
LPFT 2520-2.5 LPFT 2520-3		20	4.762	26.25	21.3	2.5×1 1.5×2	9900 11600	16400 19100
LPFT 2525-1.5		25	4.762	26.25	21.3	1.5×1	6380	9540
LPFT 3220-2.5 LPFT 3220-3	32	20	4.762	33.25	28.3	2.5×1 1.5×2	11300 13200	20900 24800
LPFT 3225-2.5 LPFT 3225-3		25	4.762	33.25	28.3	2.5×1 1.5×2	11300 13200	20900 24800
LPFT 3232-1.5		32	4.762	33.25	28.3	1.5×1	7280	12400
LPFT 4025-2.5 LPFT 4025-3	40	25	6.35	41.75	35.1	2.5×1 1.5×2	18000 21000	35000 41200
LPFT 4032-2.5		32	6.35	41.75	35.1	2.5×1	18000	35000
LPFT 4040-1.5		40	6.35	41.75	35.1	1.5×1	11600	20600
LPFT 5025-2.5 LPFT 5025-3	50	25	7.938	52.25	44.0	2.5×1 1.5×2	26900 31400	54700 66500
LPFT 5032-2.5 LPFT 5032-3		32	7.938	52.25	44.0	2.5×1 1.5×2	26900 31400	54700 66500
LPFT 5040-2.5		40	7.938	52.25	44.0	2.5×1	26900	54700
LPFT 5050-1.5		50	7.938	52.25	44.0	1.5×1	17300	33200
LPFT 6340-2.5 LPFT 6340-3	63	40	7.938	65.25	57.0	2.5×1 1.5×2	30600 35800	69500 82500
LPFT 6350-1.5		50	7.938	65.25	57.0	1.5×1	19700	41200
LPFT 6350-2.5		50	7.938	65.25	57.0	2.5×1	30600	69500

Remarks 1. If there is no seal, the nut length is shorter by the lengths of "M" and "C" than those with a seal.  
2. Right turn screw is standard. "L" is added to the end of the model code for left turn screw.

Axial rigidity <i>K</i> (N/μm)	Ball nut dimensions													
	<i>D</i>	<i>A</i>	<i>G</i>	<i>B</i>	<i>C</i>	<i>L</i>	<i>M</i>	<i>W</i>	<i>X</i>	<i>U</i>	<i>V</i>	<i>R</i>	<i>Q</i>	
210 247	44	71	23	12	8	84 100	6	57	6.6	31	35	12	M6×1	
210 247	44	71	23	12	8	96 116	7	57	6.6	31	35	12	M6×1	
127	44	71	23	12	10	90	10	57	6.6	32	34	12	M6×1	
251 297	51	85	26	15	8	99 119	7	67	9	34	42	12	M6×1	
251 297	51	85	26	15	10	117 142	10	67	9	34	42	12	M6×1	
161	51	85	26	15	12	109	13	67	9	34	42	12	M6×1	
315 347	64	106	33	18	10	123 148	10	84	11	42	52	15	Rc1/8	
315	64	106	33	18	12	146	13	84	11	42	52	15	Rc1/8	
199	64	106	33	18	14	133	16	84	11	42	52	15	Rc1/8	
388 450	80	126	41	22	11	129 154	11	102	14	52	64	19	Rc1/8	
388 450	80	126	41	22	12	151 183	14	102	14	52	64	19	Rc1/8	
388	80	126	41	22	14	178	17	102	14	52	64	19	Rc1/8	
245	80	126	41	22	16	161	21	102	14	52	64	19	Rc1/8	
466 551	97	144	49	22	14	178 218	15	120	14	58	77	19	Rc1/8	
285 478	97	144	49	22	16	161 211	19	120	14	58	77	19	Rc1/8	

3. Load balls and spacer balls are installed at a ratio of 1:1. Therefore, the basic load rating differs from those of other models.  
4. Rigidity in the Table is theoretical value obtained from the elastic deformation between screw groove and ball when the preload is 5% of the basic dynamic load rating (*C<sub>s</sub>*), and the axial load is applied to it. Refer to "Technical description" (Page B521) if preload differs from the conditions above, or when considering change in the deformation of the ball nut itself.



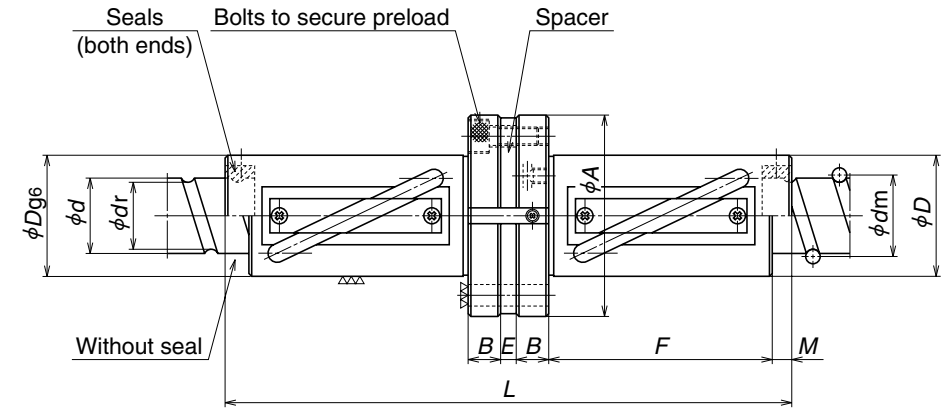
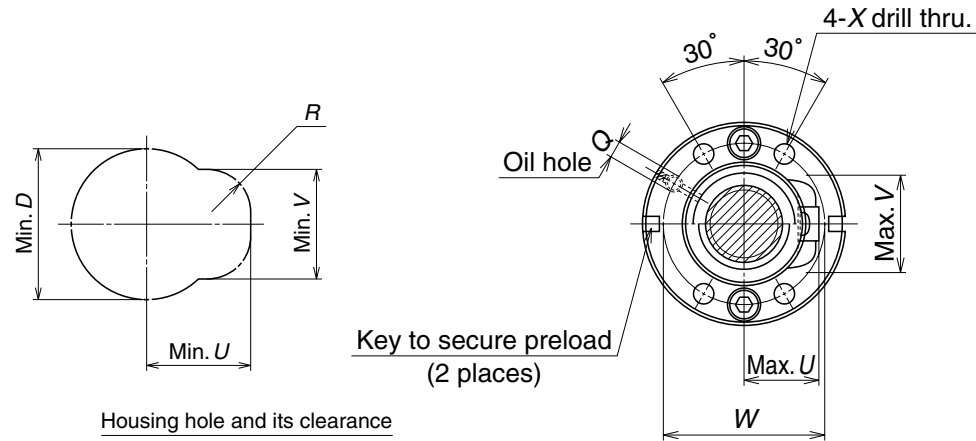
Model No.	Shaft dia. <i>d</i>	Lead <i>l</i>	Ball dia. <i>D<sub>w</sub></i>	Ball circle dia. <i>d<sub>m</sub></i>	Root dia. <i>d<sub>r</sub></i>	Effective turns of balls Turns × Circuits	Basic load rating (N)	
							Dynamic <i>C<sub>s</sub></i>	Static <i>C<sub>0s</sub></i>
LDFT 2516-2.5 LDFT 2516-3	25	16	4.762	26.25	21.3	2.5×1 1.5×2	15700 18400	32800 38200
LDFT 2520-2.5 LDFT 2520-3		20	4.762	26.25	21.3	2.5×1 1.5×2	15700 18400	32800 38200
LDFT 2525-1.5		25	4.762	26.25	21.3	1.5×1	10100	19100
LDFT 3220-2.5 LDFT 3220-3	32	20	4.762	33.25	28.3	2.5×1 1.5×2	17900 21000	41800 49600
LDFT 3225-2.5 LDFT 3225-3		25	4.762	33.25	28.3	2.5×1 1.5×2	17900 21000	41800 49600
LDFT 3232-1.5		32	4.762	33.25	28.3	1.5×1	11500	24800
LDFT 4025-2.5 LDFT 4025-3	40	25	6.35	41.75	35.1	2.5×1 1.5×2	28500 33400	70000 82400
LDFT 4032-2.5		32	6.35	41.75	35.1	2.5×1	28500	70000
LDFT 4040-1.5		40	6.35	41.75	35.1	1.5×1	18400	41200
LDFT 5025-2.5 LDFT 5025-3	50	25	7.938	52.25	44.0	2.5×1 1.5×2	42700 49900	109000 133000
LDFT 5032-2.5 LDFT 5032-3		32	7.938	52.25	44.0	2.5×1 1.5×2	42700 49900	109000 133000
LDFT 5040-2.5		40	7.938	52.25	44.0	2.5×1	42700	109000
LDFT 5050-1.5	50	7.938	52.25	44.0	1.5×1	27500	66500	
LDFT 6340-2.5 LDFT 6340-3	63	40	7.938	65.25	57.0	2.5×1 1.5×2	48500 56800	139000 165000
LDFT 6350-1.5		50	7.938	65.25	57.0	1.5×1	31300	82500
LDFT 6350-2.5		50	7.938	65.25	57.0	2.5×1	48500	139000

Remarks 1. If there is no seal, the nut length is shorter by the lengths of "M" and "C" than those with a seal.  
2. Right turn screw is standard. "L" is added to the end of the model code for left turn screw.

Unit: mm

Axial rigidity <i>K</i> (N/μm)	Ball nut dimensions											
	<i>D</i>	<i>A</i>	<i>S</i>	<i>G</i>	<i>B</i>	<i>J</i>	<i>L</i>	<i>C</i>	<i>M</i>	<i>W</i>	<i>X</i>	<i>Q</i>
490	62	89	44	34	12	18	152	8	6	75	6.6	M6×1
577							181					
490	62	89	44	34	12	18	177	8	7	75	6.6	M6×1
577							217					
308	62	89	44	34	12	18	166	10	10	75	6.6	M6×1
604	68	102	51	39	15	20	179	8	7	84	9	M6×1
708							219					
604	68	102	51	39	15	20	218	10	10	84	9	M6×1
708							268					
376	68	102	51	39	15	20	205	12	13	84	9	M6×1
737	84	126	64	48	18	22	223	10	10	104	11	Rc1/8
873							273					
737	84	126	64	48	18	22	274	12	13	104	11	Rc1/8
465	84	126	64	48	18	22	253	14	16	104	11	Rc1/8
905	106	152	80	56	22	25	229	11	11	128	14	Rc1/8
1070							279					
905	106	152	80	56	22	25	279	12	14	128	14	Rc1/8
1070							343					
922	106	152	80	56	22	25	338	14	17	128	14	Rc1/8
572	106	152	80	56	22	25	312	16	21	128	14	Rc1/8
1100	122	168	97	62	22	29	339	14	15	144	14	Rc1/8
1310							419					
678	122	168	97	62	22	29	311	16	19	144	14	Rc1/8
1120							411					

3. Rigidity in the Table is theoretical value obtained from the elastic deformation between screw groove and ball when the preload is 10% of the basic dynamic load rating (*C<sub>s</sub>*), and the axial load is applied to it. Refer to "Technical description" (Page B521) if preload differs from the conditions above, or when considering change in the deformation of the ball nut itself.



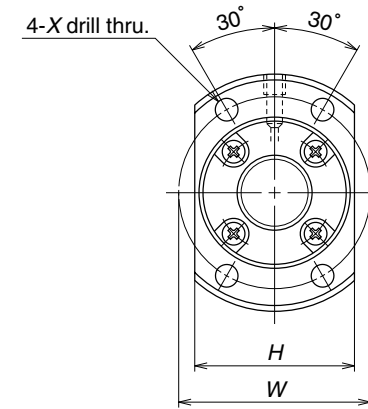
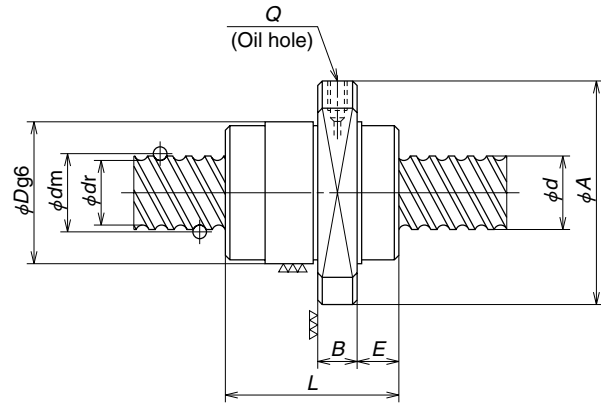
Model No.	Shaft dia. <i>d</i>	Lead <i>l</i>	Ball dia. <i>D<sub>w</sub></i>	Ball circle dia. <i>d<sub>m</sub></i>	Root dia. <i>d<sub>r</sub></i>	Effective turns of balls Turns × Circuits	Basic load rating (N)	
							Dynamic <i>C<sub>s</sub></i>	Static <i>C<sub>0s</sub></i>
LFFT 2516-2.5 LFFT 2516-3	25	16	4.762	26.25	21.3	2.5×1 1.5×2	15700 18400	32800 38200
LFFT 2520-2.5 LFFT 2520-3		20	4.762	26.25	21.3	2.5×1 1.5×2	15700 18400	32800 38200
LFFT 2525-1.5		25	4.762	26.25	21.3	1.5×1	10100	19100
LFFT 3220-2.5 LFFT 3220-3	32	20	4.762	33.25	28.3	2.5×1 1.5×2	17900 21000	41800 49600
LFFT 3225-2.5 LFFT 3225-3		25	4.762	33.25	28.3	2.5×1 1.5×2	17900 21000	41800 49600
LFFT 3232-1.5		32	4.762	33.25	28.3	1.5×1	11500	24800
LFFT 4025-2.5 LFFT 4025-3	40	25	6.35	41.75	35.1	2.5×1 1.5×2	28500 33400	70000 82400
LFFT 4032-2.5		32	6.35	41.75	35.1	2.5×1	28500	70000
LFFT 4040-1.5		40	6.35	41.75	35.1	1.5×1	18400	41200
LFFT 5025-2.5 LFFT 5025-3	50	25	7.938	52.25	44.0	2.5×1 1.5×2	42700 49900	109000 133000
LFFT 5032-2.5 LFFT 5032-3		32	7.938	52.25	44.0	2.5×1 1.5×2	42700 49900	109000 133000
LFFT 5040-2.5		40	7.938	52.25	44.0	2.5×1	42700	109000
LFFT 5050-1.5	50	7.938	52.25	44.0	1.5×1	27500	66500	
LFFT 6340-2.5 LFFT 6340-3	63	40	7.938	65.25	57.0	2.5×1 1.5×2	48500 56800	139000 165000
LFFT 6350-1.5		50	7.938	65.25	57.0	1.5×1	31300	82500
LFFT 6350-2.5		50	7.938	65.25	57.0	2.5×1	48500	139000

Remarks 1. If there is no seal, the nut length is shorter by the length of "2 x M" than those with a seal.  
2. Right turn screw is standard. "L" is added to the end of the model code for left turn screw.

Unit: mm

Axial rigidity <i>K</i> (N/μm)	Ball nut dimensions													
	<i>D</i>	<i>A</i>	<i>B</i>	<i>F</i>	<i>E</i>	<i>L</i>	<i>M</i>	<i>W</i>	<i>X</i>	<i>U</i>	<i>V</i>	<i>R</i>	<i>Q</i>	
490	44	71	11	58	5	155	6	57	6.6	31	35	12	M6×1	B
577				74		187								
490	44	71	11	74	5	189	7	57	6.6	31	35	12	M6×1	B
577				94		229								
308	44	71	11	68	5	183	10	57	6.6	32	34	12	M6×1	B
604				71		189								
708	51	85	13	71	7	189	7	67	9	34	42	12	M6×1	B
708				91		229								
604	51	85	13	90	7	233	10	67	9	34	42	12	M6×1	B
708				115		283								
376	51	85	13	69	6	196	13	67	9	34	42	12	M6×1	B
737				87		236								
873	64	106	17	112	8	286	10	84	11	42	52	15	Rc1/8	B
737				114		296								
465	64	106	17	85	7	243	16	84	11	42	52	15	Rc1/8	B
905				85		238								
1070	80	126	20	110	6	288	11	102	14	52	64	19	Rc1/8	B
905				110		298								
1070	80	126	20	142	10	362	14	102	14	52	64	19	Rc1/8	B
922				125		326								
572	80	126	20	104	10	300	21	102	14	52	64	19	Rc1/8	B
1100				127		326								
1310	97	144	18	167	6	406	15	120	14	58	77	19	Rc1/8	B
678				105		300								
1120	97	144	20	155	12	400	19	120	14	58	77	19	Rc1/8	B
678				105		300								

3. Rigidity in the Table is theoretical value obtained from the elastic deformation between screw groove and ball when the preload is 10% of the basic dynamic load rating (*C<sub>s</sub>*), and the axial load is applied to it. Refer to "Technical description" (Page B521) if preload differs from the conditions above, or when considering change in the deformation of the ball nut itself.



Model No.	Shaft dia.	Lead	Ball dia.	Ball circle dia.	Root dia.	Effective turns of balls Turns × Circuits	Basic load rating (N)	
	<i>d</i>	<i>l</i>	<i>D<sub>w</sub></i>	<i>d<sub>m</sub></i>	<i>d<sub>r</sub></i>		Dynamic <i>C<sub>a</sub></i>	Static <i>C<sub>0s</sub></i>
LSFC 1616-3 LPFC 1616-3	16	16	2.778	16.65	13.7	1.7×2	6380	12500
LSFC 1616-6 LPFC 1616-6						1.7×4	11600	25000
LSFC 2020-3 LPFC 2020-3	20	20	3.175	20.75	17.4	1.7×2	9620	21000
LSFC 2020-6 LPFC 2020-6						1.7×4	17500	42000
LSFC 2525-3 LPFC 2525-3	25	25	3.969	26.0	21.9	1.7×2	14400	32800
LSFC 2525-6 LPFC 2525-6						1.7×4	26100	65600
LSFC 3232-3 LPFC 3232-3	32	32	4.762	33.25	28.3	1.7×2	21000	51600
LSFC 3232-6 LPFC 3232-6						1.7×4	38100	103000
LSFC 4040-3 LPFC 4040-3	40	40	6.35	41.75	35.2	1.7×2	33500	86500
LSFC 4040-6 LPFC 4040-6						1.7×4	60800	173000
LSFC 5050-3 LPFC 5050-3	50	50	7.938	52.25	44.1	1.7×2	50000	135000
LSFC 5050-6 LPFC 5050-6						1.7×4	90800	270000

Unit: mm

Axial rigidity <i>K</i> (N/μm)	Ball nut dimensions								
	<i>D</i>	<i>A</i>	<i>H</i>	<i>B</i>	<i>E</i>	<i>L</i>	<i>W</i>	<i>X</i>	<i>Q</i>
188 293	32	53	34	10	10	38	42	4.5	M6×1
365 567									
260 404	39	62	41	10	11.5	46	50	5.5	M6×1
505 784									
320 499	47	74	49	12	13	55	60	6.6	M6×1
620 965									
400 623	58	92	60	12	16	70	74	9	M6×1
775 1210									
497 773	73	114	75	15	19.5	85	93	11	M6×1
962 1500									
611 952	90	135	92	20	21.5	107	112	14	M6×1
1180 1840									

Remarks 1. For LSFC, rigidities in the Table are theoretical values obtained from the elastic deformation between screw groove and balls when the axial load is 30% of the dynamic load rating (*C<sub>a</sub>*). For LPFC, rigidities are theoretical values when a preload is 5% of the dynamic load rating, and axial load is applied to it. Refer to "Technical Description" (Page B521) if axial load and preload differ from the conditions above, or when considering change in the deformation of the ball nut itself.

2. The right turn screw is standard. Please consult NSK for left turn screw.