

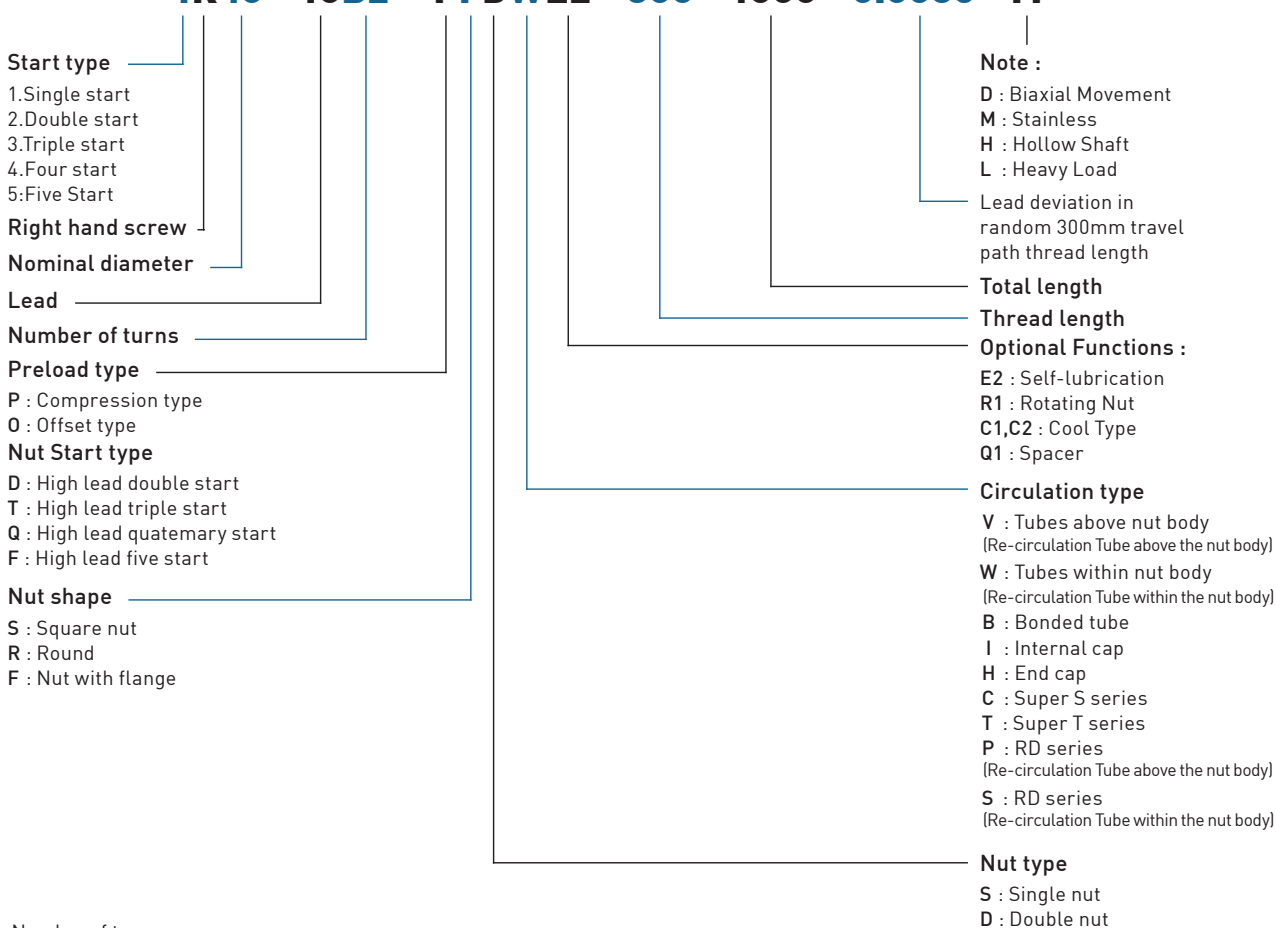
5. Specification Illustration

HIWIN manufactures ballscrews according to customers' blueprints or specifications. Please read the following information for an understanding of ballscrew design.

1. Nominal diameter.
2. Thread lead.
3. Thread length, total length.
4. End journal configuration.
5. Nut configuration
6. Accuracy grade (lead deviation, geometrical tolerance).
7. Working speed.
8. Maximum static load, working load, preload drag torque.
9. Nut safety requirements.
10. Lubrication hole position.

HIWIN Ballscrew Nomenclature

1R40 - 10B2 - PFDWE2 - 800 - 1000 - 0.0035 - M



Number of turns

A : 1.5, B: 2.5, C: 3.5	T3 : 3	S1 : 1.8x1	U1 : 2.8x1	K2 : 2	X : 2.8, Y : 3.8, Z : 4.8
A2 : 1.5x2	T4 : 4	S2 : 1.8x2	U2 : 2.8x2	K3 : 3	X2 : 2.8x2
B2 : 2.5x2	T5 : 5	S4 : 1.8x4	V2 : 0.8x2	K4 : 4	Y2 : 3.8x2
C1 : 3.5x1	T6 : 6				Z2 : 4.8x2

Note : 1. Different diameters and leads are available upon request.

2. Right hand thread is standard, left hand thread is available upon request.

3. Longer lengths are available upon request.

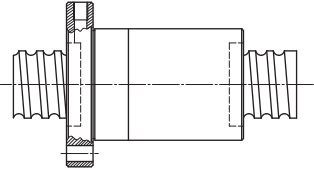
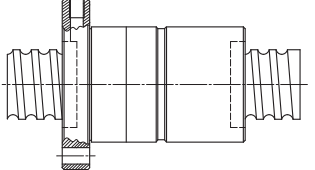
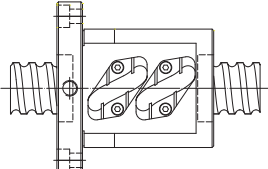
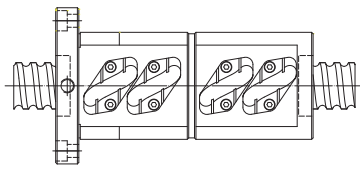
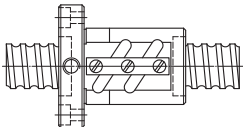
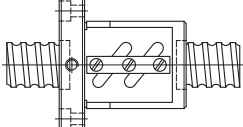
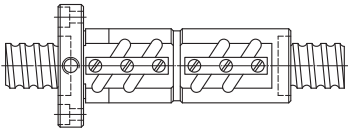
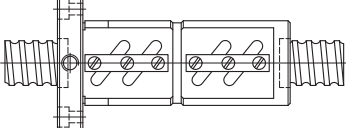
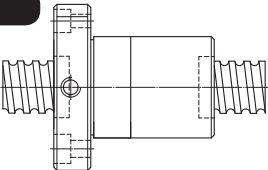
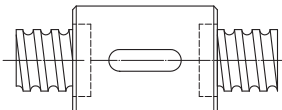
4. Stainless steel is available upon request, please contact HIWIN engineer.

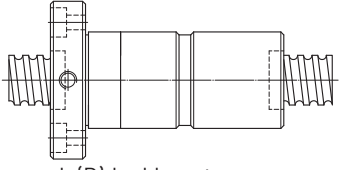
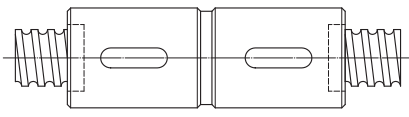
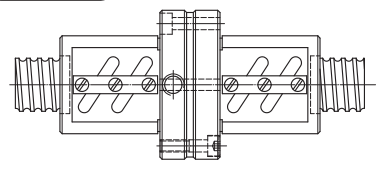
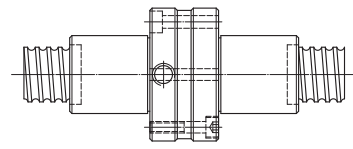
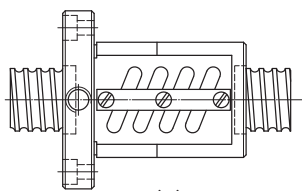
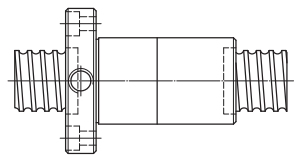
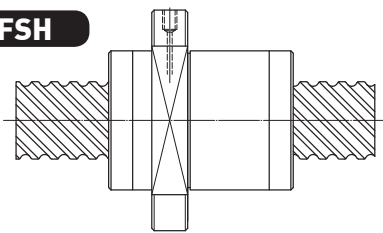
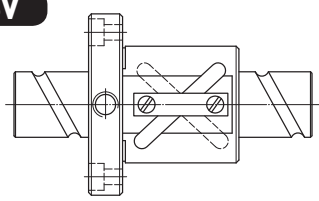
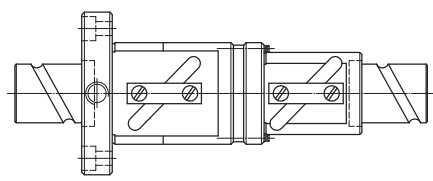
5. Complete ballscrew Inquiry on page 197~198 and please contact HIWIN engineer.

6. If you need to order DIN 69051 type, please mark "DIN".

6. Precision Ground Ballscrews

6.1 Ground Ballscrew Series

page	Super S		page
42 ~ 43	FSC  (F)Flange end, (S)single nut, (C)Super S	FDC  (F)Flange end, (D)double nut, (C)Super S	44 ~ 45
page	Super T		page
46 ~ 49	FST  (F)Flange end, (S)single nut, (T)Super T	FDT  (F)Flange end, (D)double nut, (T)Super T	50 ~ 53
page	General Type		page
54 ~ 56	FSV  (F)Flange end, (S)single nut, (V)tube above the nut diameter	FSW  (F)Flange end, (S)single nut, (W)tube within the nut diameter	57 ~ 59
60 ~ 62	FDV  (F)Flange end, (D)double nut, (V)tube above the nut diameter	FDW  (F)Flange end, (D)double nut, (W)tube within the nut diameter	63 ~ 65
66 ~ 68	FSI  (F)Flange end, (S)single nut, (I)internal recirculation cap	RSI  (R)Round, (S)single nut, (I)internal recirculation cap	69 ~ 70

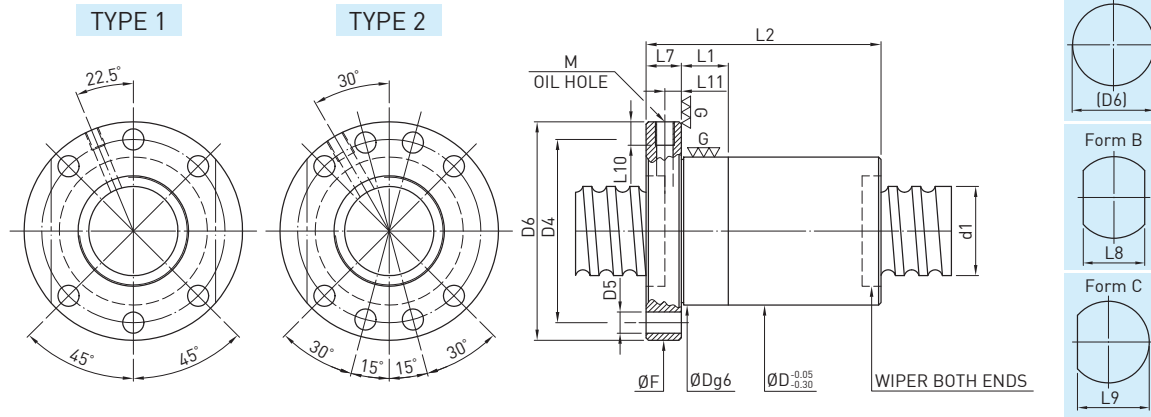
page	General Type		page
71 ~ 72	FDI  (F)Flange end, (D)double nut, (I)internal recirculation cap	RDI  (R)Round, (D)double nut, (I)internal recirculation cap	73 ~ 74
75 ~ 76	PFDW -Type 1  (PF)Flange to flange, (D)double nut, (W)tube within the nut diameter	PFDI  (PF)Flange to flange, (D)double nut, (I)internal recirculation cap	79 ~ 80
81 ~ 83	OFSW  (O)Offset pitch preload, (F)flange end, (S)single nut, (W)tube within the nut diameter	OFSI  (O)Offset pitch preload, (F)flange end, (S)single nut, (I)internal recirculation cap	84
page	High Lead Type		page
85	FSH  Large lead, (F)flange mounted, (S)single nut, (H)end cap	DFSV  (D)Double start, (F)flange end, (S)single nut, (V)tube above the nut diameter	86
77 ~ 78	PFDW -Type 2  Large lead, (PF)flange end, compression preload, (D)double nut, (W)tube within nut diameter		77 ~ 78

*Different designs require drawing approval. Please contact HIWIN engineers for types not listed above.

6.2 Dimensions for Precision Ground Ballscrews

F S C TYPE

◀ Standard Product



Model	Size		PCD	RD	Ball Dia.	Circuits	Rigidity K (kgf/μm)	Dynamic Load C(kgf)	Static Load Co(kgf)	Nut			Flange					Oil Hole			Double starts	Incomplete Thread
	Nominal Dia.	Lead								D	L1	L2	TYPE	Form A(D6)	Form B(L8)	Form C(L9)	L7	D4	D5	M		
14-10K3	14	10	14.6	10.724	3.175	3	24	920	1790		10	46										
15-10K3		10	16	12.869	3	3	26	930	1970	28	10	45	48	40	44		38					
15-16K2		16				2	16	610	1230		10	45										
15-10K3	15	10	15.6	12.324		3	25	960	1930		10	44					5.5	M5×0.8P	6			
15-20K2		20			3.175	2	15	630	1256		10	50										
16-16K2	16	16	16.4	13.124		2	17	680	1385	34	10	47	57	43	50		45					●
20-10K4		10	21	17.868	3	4	43	1390	3560		10	55										
20-5K4		5				4	42	1490	3640		10	40										
20-10K3		10	20.6	17.324	3.175	3	32	1130	2660	36	10	47	58	44	51		47				●	
20-20K2	20	20				2	21	760	1730		10	57									●	●
20-6K5		6	20.8	16.744	3.969	5	58	2420	5660	42	10	49	64	50	57		53					●
20-8K5		8	21	16.132	4.763	5	58	2960	6505	45	10	64	65	51	58		54					●
25-5K4		5				4	49	1650	4612		10	43										
25-10K3		10				3	38	1260	3370		10	50										
25-15K5		15	25.6	22.324	3.175	5	63	1980	5730	40	10	90	62	48	55		51					
25-20K3		20				3	39	1260	3436		10	80									●	
25-25K2		25				2	25	840	2170		10	69									●	
25-6K5		6				5	68	2720	7192	45	10	50	65	51	58		54					
25-8K5	25	8				5	70	2710	7170	48	10	62	68	54	61		57					
25-10K4		10				4	56	2210	5660		10	60					6.6					
25-12K4		12	25.8	21.744	3.969	4	56	2200	5640		10	67										●
25-16K3		16				3	42	1670	4127	45	10	71	65	51	58		54					●
25-20K3		20				3	43	1710	4290		10	80										
25-8K5		8	26	21.132	4.763	5	72	3480	8683	50	10	64	70	56	64		60					●
28-6K5		6	28.8	24.744	3.969	5	74	2840	7966		10	49										●
28-8K5	28	8				5	79	3690	9780	50	10	62										●
28-10K5		10	29	24.132	4.763	5	80	3680	9760	52	10	72					65					●
28-16K4		16				4	64	2970	7661	50	10	92									●	●
32-5K4		5				4	57	1840	5960	48	10	38	70	54	62		59					●
32-5.08K4		5.08	32.6	29.324	3.175	4	57	1840	5940		10	39										●
32-6K5		6				5	83	3090	9480	56	10	48	86	65	75.5	12	71					●
32-8K5		8				5	85	3080	9430	53	10	59	83	62	72.5		68					
32-8K5		8				5	84	3080	9460		10	59										
32-10K5		10				5	85	3080	9450		10	73										
32-15K4		15	32.8	28.744	3.969	4	69	2500	7440		10	90					65				●	
32-20K3		20				3	52	1900	5430	50	20	87	80		71						●	
32-32K2		32				2	34	1280	3530		20	87									●	
32-40K2		40				2	32	1240	3440		20	94			62		65				●	
32-8K5		8				5	84	3860	10914	55	10	64										●
32-10K5		10				5	86	3850	10890		10	79										
32-12K5		12	33	28.132	4.763	5	87	3840	10870	56	20	88										
32-20K4		20				4	72	3190	8914		20	106	86	65	75.5		71					
32-25K3		25				3	53	2420	6500	54	20	97									●	●
32-32K2		32				2	34	1620	4100		20	88									●	
32-10K5		10				5	90	5640	14480		10	77										
32-12K5		12	33.4	26.91	6.35	5	90	5620	14450	62	20	87	92	74	83		77					●
32-16K4		16				4	73	4570	11390		20	92										●
32-20K4		20				4	70	4240	10854	57	20	107	87	66	78		72	9				
36-6K5		6	36.8	32.744	3.969	5	88	3240	10632	56	10	51	86	65	77		71					●
36-10K5		10				5	98	6010	16440		20	80										
36-12K5		12				5	99	5990	16420	66	20	87	96	73	84.5	14	81					
36-16K5	36	16	37.4	30.91	6.35	5	100	5960	16350		20	109										
36-20K4		20				4	80	4840	12880	65	20	108	95	72	83.5		80				●	●
36-20K4		20				4	79	4840	12880		20	108										
36-36K2		36				2	39	2540	6240	61	20	95	91	68	79.5		76				●	
38-8K5		8	39	34.132	4.763	5	96	4190	13110	61	20	64	91	68	79.5		76					●
38-10K4		10				4	81	5050	13790		20	70										
38-15K4		15				4	83	5020	13740		20	88										
38-16K5		16	39.4	32.91	6.35	5	104	6140	17340		20	108										
38-20K4		20				4	83	4990	13660		25	108	93	70	81.5		78				●	
38-25K4		25				4	83	4940	13560		25	127										
38-40K2		40				2	40	2590	6560		25	103										●

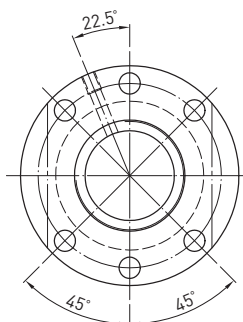
Note: 1. Rigidity without preload: The axial load is calculated by 30% of dynamic load.

2. Circuits less than K5 also available.

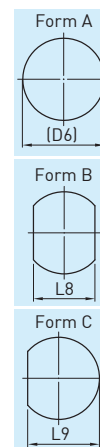
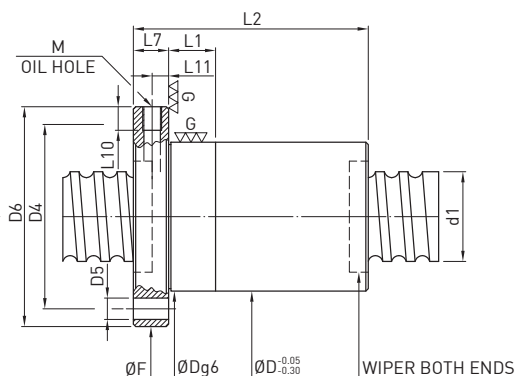
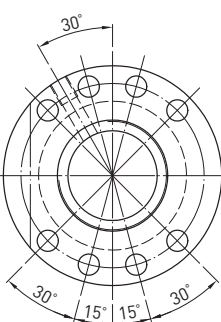
F S C TYPE

◀ Standard Product

TYPE 1



TYPE 2



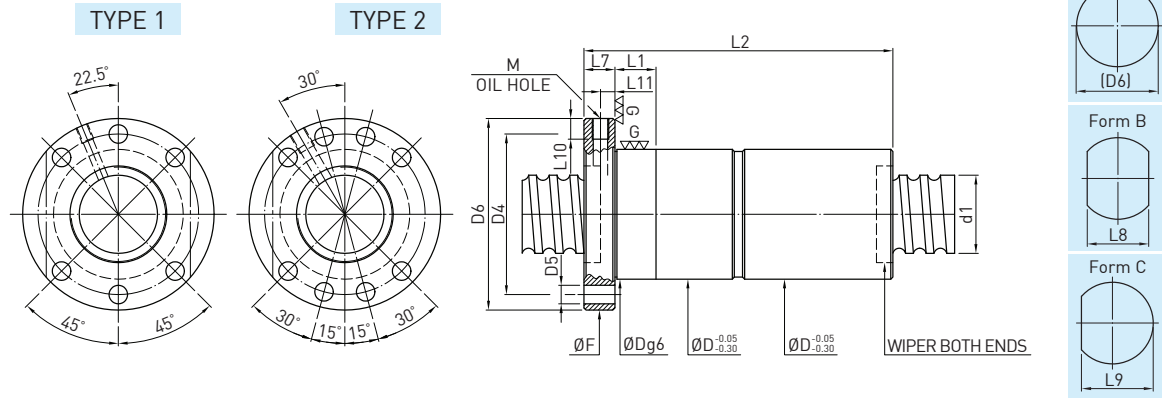
Model	Size		PCD	RD	Ball Dia.	Circuits	Rigidity K (kgf/μm)	Dynamic Load C(kgf)	Static Load Co(kgf)	Nut			Flange					Oil Hole			Double starts	Incomplete Thread
	Nominal Dia.	Lead								D	L1	L2	TYPE	Form A(D6)	Form B(L8)	Form C(L9)	L7	D4	D5	M		
40-5K5	40	5	40.6	37.324	3.175	5	85	2470	9490	63	20	45	93	70	81.5	78	9	7				
40-6K5		6	40.8	36.744	3.969	5	95	3370	11780		20	52										
40-8K5		8			5	101	4360	14200	20		64											
40-10K5		10	41	36.132	4.763	5	102	4350	14180	61	20	80	91	68	79.5	76						
40-20K4		20			4	84	3520	11130	20		110											
40-16K5		16	41.2	35.522	5.556	5	107	5170	15510	68	20	108	98	75	86.5	83						
40-10K5		10			5	106	6340	18400	20		83											
40-12K5		12				5	108	6330	18380	70	20	86	100	75	87.5	14	85	9	7			
40-16K5		16			5	109	6300	18320	20		108											
40-20K4		20	41.4	34.91	6.35	4	87	5130	14440	20	110											
40-30K3		30			3	67	4000	11010	20		117											
40-25K4		25				4	86	5080	14350	65	25	127	95	72	83.5	80						
40-40K2		40			2	42	2660	6940	25		101											
40-12K5		12				5	110	7430	20790	75	20	90	110	85	97.5	93						
40-16K5		16	41.6	34.299	7.144	5	112	7400	20720		20	109										
45-8K5		45	8	46	41.132	4.763	5	109	4550	15860	70	20	66	105	80	92.5	90					
45-10K5	10				5	118	6810	21320	20	78												
45-12K5	12				5	119	6800	21290	20	89												
45-16K5	16		46.4	39.91	6.35	5	121	6780	21240	75	20	108	110	85	97.5	93						
45-20K4	20					25	108															
45-25K4	25					25	129															
45-40K3	40					25	145															
45-12K5	12					5	119	7830	23290		20	88	117	92	104.5	100						
45-16K5	16		46.6	39.299	7.144	5	120	7810	23230	80	20	119										
45-20K4	20				4	97	6360	18330	25	113												
50-5K5	50		5	50.6	47.324	3.175	5	95	2700	11940	70	20	45	100	75	87.5	85					
50-8K5			8	51	46.132	4.763	5	116	4730	17530	75	20	74									
50-10K5			10			5	125	7050	23300	25	80											
50-12K5			12				5	127	7040	23280	82	25	90	118	92	105	16	100	11	8		
50-15K5			15			5	129	7030	23250	25		104										
50-16K5			16			5	129	7020	23230	25	109											
50-20K4		20	51.4	44.91	6.35	4	104	5720	18340	25	106		110	85	97.5	93						
50-25K4		25			4	104	5690	18260	25		129											
50-30K4		30			4	104	5650	18170	25	147												
50-35K3		35				3	80	4430	13840	75	25	133	118	92	105	100						
50-40K3		40			3	79	4390	13750	25		145											
50-30K2		30	51.6	44.299	7.144	2	53	3560	9960	82	25	92									121	95
50-12K5		12				5	130	9480	28776		25	97										
50-16K5		16				5	132	9450	28710		25	112										
50-20K5		20				5	134	9420	28630	85	25	138	121	95	108	103						
50-50K2		50			2	52	3980	10860	25		124											
50-20K4	20	52.2	42.466	9.525	4	113	9870	27420	86	25	120	118									92	105
55-16K5	16	56.4	49.91	6.35	5	139	7420	26157	82	25	104											
63-10K5	10				5	144	7720	29190		25	84											
63-12K5	12				5	147	7720	29180	95	25	94	135	100	117.5	115							
63-20K5	20	64.4	57.91	6.35	5	157	7850	30020		25	132											
63-40K2	40				2	62	3310	11100		25	110									138	103	120.5
63-12K5	12	64.8	56.688	7.938	5	152	10520	36440	98	25	94											
63-16K4	16				4	132	11010	34520		25	100											
63-20K5	20	65.2	55.466	9.525	5	168	13430	43530	107	25	140	147	112	129.5	127							
63-25K5	25				5	166	13390	43420		110	25									165		
70-16K4	16	72.2	62.466	9.525	4	141	11470	38040	115	25	105									155	120	137.5
70-20K4	20				4	143	11450	37990		25	122											
80-10K5	10	81.4	74.91	6.35	5	166	8620	37980	110	25	80	150	115	132.5	130							
80-12K5	12	81.8	73.688	7.938	5	177	11740	47130	115	25	102											
80-16K4	16				4	155	12410	44960	125	25	105											
80-20K4	20				4	160	12400	44910	120	25	122	170	135	152.5	25	150						
80-25K4	25	82.2	72.466	9.525	4	159	12370	44840	120	25	145											
80-30K4	30				4	161	12340	44750	120	25	165											

Note: 1. Rigidity without preload: The axial load is calculated by 30% of dynamic load.

2. Circuits less than K5 also available.

F D C TYPE

◀ Standard Product



Model	Size		PCD	RD	Ball Dia.	Circuits	Rigidity K (kgf/μm)	Dynamic Load C (kgf)	Static Load Cok (kgf)	Nut			Flange			Oil Hole			Double starts	Incomplete Thread
	Nominal Dia.	Lead								D	L1	L2	Form A (D6)	Form B (L8)	Form C (L9)	M	L10	L11		
14-10K3	14	10	14.6	10.724	3.175	3	31	920	1790	28	10	96	48	40	44	38	5.5	M5×0.8P	6	
15-10K3	15	10	16	12.869	3	3	34	930	1970	28	10	94								
15-16K2	15	16				2	21	610	1230	10	94									
15-10K3	15	10	15.6	12.324	3.175	3	33	960	1930	10	92									
15-20K2	15	20				2	20	630	1256	34	10	104	57	43	50	45				
16-16K2	16	16	16.4	13.124	3.175	2	23	680	1385	10	98									
20-10K4	20	10	21	17.868	3	4	57	1390	3560	10	114									
20-5K4	20	5				4	55	1490	3640	10	84									
20-10K3	20	10	20.6	17.324	3.175	3	42	1130	2660	36	10	98	58	44	51	47				
20-20K2	20	20				2	27	760	1730	10	118									
20-6K5	20	6	20.8	16.744	3.969	5	77	2420	5660	42	10	102	64	50	57	53				
20-8K5	20	8	21	16.132	4.763	5	77	2960	6505	45	10	132	65	51	58	54				
25-5K4	25	5				4	65	1650	4612	10	90									
25-10K3	25	10				3	50	1260	3370	10	104									
25-15K5	25	15	25.6	22.324	3.175	5	83	1980	5730	40	10	184	62	48	55	51				
25-20K3	25	20				3	51	1260	3436	10	164									
25-25K2	25	25				2	32	840	2170	10	142									
25-6K5	25	6				5	91	2720	7192	45	10	104	65	51	58	54				
25-8K5	25	8				5	92	2710	7170	48	10	128	68	54	61	57				
25-10K4	25	10	25.8	21.744	3.969	4	74	2210	5660	10	124					6.6				
25-12K4	25	12				4	74	2200	5640	45	10	138								
25-16K3	25	16				3	55	1670	4127	10	146		65	51	58	54				
25-20K3	25	20				3	55	1710	4290	10	164									
25-8K5	25	8	26	21.132	4.763	5	96	3480	8683	50	10	132	70	56	64	60				
28-6K5	28	6	28.8	24.744	3.969	5	93	2840	7966	10	102									
28-8K5	28	8				5	104	3690	9780	50	10	128	80	62	71	65				
28-10K5	28	10	29	24.132	4.763	5	105	3680	9760	10	148									
28-16K4	28	16				4	84	2970	7661	10	188									
32-5K4	32	5	32.6	29.324	3.175	4	77	1840	5960	48	10	80	70	54	62	59				
32-5.08K4	32	5.08				4	77	1840	5940	56	10	82								
32-6K5	32	6				5	111	3090	9480	56	10	100	86	65	75.5	12				
32-8K5	32	8				5	112	3080	9430	53	10	122	83	62	72.5	68				
32-8K5	32	8				5	112	3080	9460	10	122									
32-10K5	32	10	32.8	28.744	3.969	5	113	3080	9450	10	150									
32-15K4	32	15				4	91	2500	7440	50	10	184	80	62	71	65				
32-20K3	32	20				3	68	1900	5430	20	178									
32-32K2	32	32				2	44	1280	3530	20	178									
32-40K2	32	40				2	42	1240	3440	20	192									
32-8K5	32	8				5	112	3860	10914	55	10	132								
32-10K5	32	10				5	113	3850	10890	56	10	162								
32-12K5	32	12				5	114	3840	10870	20	180									
32-20K4	32	20	33	28.132	4.763	4	94	3190	8914	54	20	216	86	65	75.5	71				
32-25K3	32	25				3	70	2420	6500	20	198									
32-32K2	32	32				2	44	1620	4100	20	180									
32-10K5	32	10				5	119	5640	14480	10	158									
32-12K5	32	12				5	119	5620	14450	62	20	178	92	74	83	77				
32-16K4	32	16	33.4	26.91	6.35	4	96	4570	11390	20	188									
32-20K4	32	20				4	71	4240	10854	57	20	218	87	66	78	72				
36-6K5	36	6	36.8	32.744	3.969	5	118	3240	10632	56	10	106	86	65	77	71				
36-10K5	36	10				5	130	6010	16440	20	164									
36-12K5	36	12				5	131	5990	16420	66	20	178	96	73	84.5	81				
36-16K5	36	16				5	132	5960	16350	20	222									
36-20K4	36	20	37.4	30.91	6.35	4	105	4840	12880	65	20	220	95	72	83.5	80				
36-20K4	36	20				4	105	4840	12880	20	220									
36-36K2	36	36				2	51	2540	6240	61	20	194	91	68	79.5	76				
38-8K5	38	8	39	34.132	4.763	5	127	4190	13110	61	20	132	91	68	79.5	76				
38-10K4	38	10				4	107	5050	13790	20	144									
38-15K4	38	15				4	109	5020	13740	20	180									
38-16K5	38	16				5	137	6140	17340	20	220									
38-20K4	38	20	39.4	32.91	6.35	4	110	4990	13660	63	25	220	93	70	81.5	78				
38-25K4	38	25				4	109	4940	13560	25	258									
38-40K2	38	40				2	53	2590	6560	25	210									

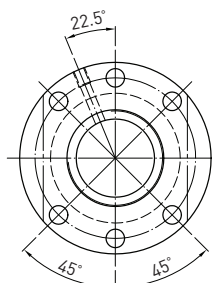
Note: 1. Rigidity with preload: The axial load is calculated by 10% of dynamic load.

2. Circuits less than K5 also available.

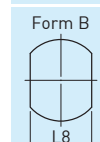
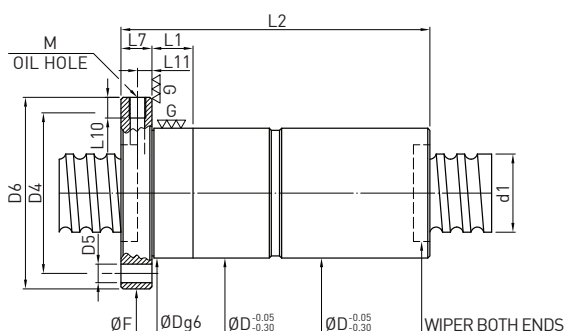
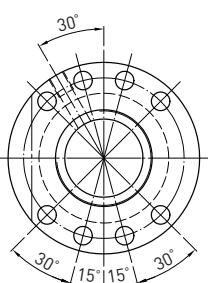
F D C TYPE

◀ Standard Product

TYPE 1



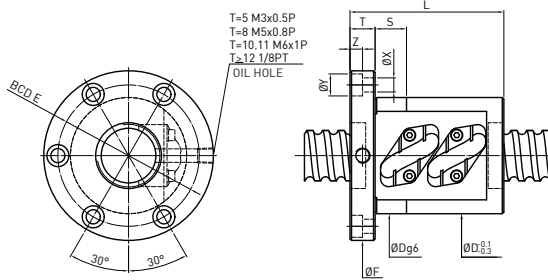
TYPE 2



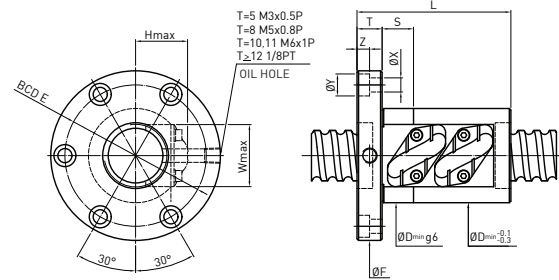
Model	Size		PCD	RD	Ball Dia.	Circuits	Rigidity K (kgf/μm)	Dynamic Load C(kgf)	Static Load Co(kgf)	Nut			Flange						Oil Hole			Double starts	Incomplete Thread
	Nominal Dia.	Lead								D	L1	L2	TYPE	Form A (D6)	Form B (L8)	Form C (L9)	L7	D4	D5	M	L10		
40-5K5	40	5	40.6	37.324	3.175	5	114	2470	9490	63	20	95		93	70	81.5		78					
40-6K5		6	40.8	36.744	3.969	5	127	3370	11780		20	109											
40-8K5		8				5	135	4360	14200		20	140											
40-10K5		10	41	36.132	4.763	5	136	4350	14180		20	164											
40-20K4		20				4	111	3520	11130	61	20	226		91	68	79.5		76					
40-16K5		16	41.2	35.522	5.556	5	141	5170	15510		20	220											
40-10K5		10				5	141	6340	18400	70	20	170		100	75	87.5	14	85	9				
40-12K5		12				5	142	6330	18380		20	178											
40-16K5		16				5	143	6300	18320		20	221											
40-20K4		20	41.4	34.91	6.35	4	115	5130	14440		20	225											
40-30K3		30				3	88	4000	11010	65	20	239			95	72	83.5		80				
40-25K4		25				4	114	5080	14350		25	259											
40-40K2		40				2	56	2660	6940	75	25	207			110	85	97.5		93				
40-12K5		12	41.6	34.299	7.144	5	146	7430	20790		20	185											
40-16K5		16				5	147	7400	20720		20	223											
45-8K5		8	46	41.132	4.763	5	145	4550	15860		70	20											137
45-10K5	45	10			5	156	6810	21320	75	20	161		105	80	92.5		90						
45-12K5		12				5	158	6800		21290	20											183	
45-16K5		16				5	160	6780		21240	20											221	
45-20K4		20	46.4	39.91	6.35	4	129	5520		16760	25											221	
45-25K4		25				4	129	5480	16670	80	25	263		117	92	104.5		100					
45-40K3		40				3	93	4100	12020		25	295											
45-12K5		12				5	157	7830	23290		20	181											
45-16K5		16	46.6	39.299	7.144	5	159	7810	23230		20	243											
50-5K5		50	5	50.6	47.324	3.175	5	129	2700	11940	70	20	95	2	118	92	105	16	100	M8 × 1P	10	8	
50-8K5			8	51	46.132	4.763	5	154	4730	17530	75	20	153										
50-10K5			10				5	166	7050	23300	25	166											
50-12K5			12				5	169	7040	23280	25	186											
50-15K5			15				5	171	7030	23250	82	25	214										
50-16K5			16				5	171	7020	23230	25	224											
50-20K4			20	51.4	44.91	6.35	4	138	5720	18340	25	218											
50-25K4			25				4	134	5690	18260	25	263											
50-30K4	30					4	136	5650	18170	75	25	299		110	85	97.5		93					
50-35K3	35					3	105	4430	13840		25	271											
50-40K3	40					3	104	4390	13750		25	295											
50-30K2	30		51.6	44.299	7.144	2	70	3560	9960		82	25											190
50-12K5	12					5	173	9480	28776	85	25	200		118	92	105		100					
50-16K5	16		51.8	43.688	7.938	5	175	9450	28710		25	229											
50-20K5	20					5	176	9420	28630		25	281											
50-50K2	50					2	69	3980	10860		25	253											
50-20K4	55	20	52.2	42.466	9.525	4	149	9870	27420	86	25	245		118	92	105		100					
55-16K5		16	56.4	49.91	6.35	5	185	7420	26157	82	25	213											
63-10K5		10				5	192	7720	29190	25	173												
63-12K5		12	64.4	57.91	6.35	5	196	7720	29180	95	25	194											
63-20K5		20				5	208	7850	30020		25	270											
63-40K2		40				2	82	3310	11100		25	226											
63-12K5		12	64.8	56.688	7.938	5	202	10520	36440		98	25											194
63-16K4		16				4	175	11010	34520	107	25	206											
63-20K5	20	65.2	55.466	9.525	5	222	13430	43530	25		286												
63-25K5	25				5	218	13390	43420	110		25	336											
70-16K4	70	16	72.2	62.466	9.525	4	187	11470	38040		115	25	216		155	120	137.5		135				
70-20K4		20				4	190	11450	37990	25		250											
80-10K5		10	81.4	74.91	6.35	5	223	8620	37980	110		25	170										
80-12K5		12	81.8	73.688	7.938	5	238	11740	47130	115		25	210										
80-16K4		16				4	206	12410	44960	120	25	216											
80-20K4		20	82.2	72.466	9.525	4	212	12400	44910		25	250											
80-25K4		25				4	211	12370	44840		25	296											
80-30K4		30				4	212	12340	44750		25	336											

Note: 1. Rigidity with preload: The axial load is calculated by 10% of dynamic load.

2. Circuits less than K5 also available.

F S T TYPE
Standard Product


Re-circulation plate below the nut body



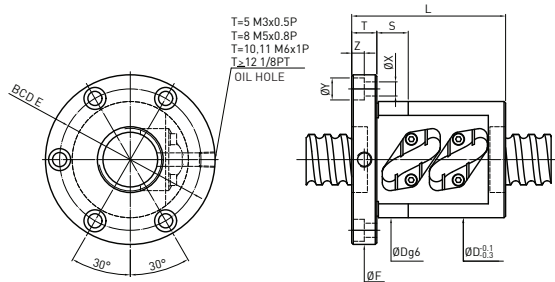
Re-circulation plate above the nut body

Model	Size		Ball Dia.	Circuits	Rigidity K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut			Flange			Return Tube		Bolt			Fit
	Nominal Dia.	Lead						D	D _{min}	L	F	T	BCD-E	W	H	X	Y	Z	
R8-3A1	8	3	2	1.6x1	7.9	230	350	21	17	28	36	5	28	14	12	4.5	0	0	0
R8-5B1	8	5	2	2.6x1	11.5	360	600	24	18	37	44	8	34	15	13	4.5	8	4	0
R10-4B1	10	4	2	2.6x1	14	410	770	24	20	39	46	10	36	16	13	4.5	8	4	10
R10-5A1	10	5	2	1.6x1	10.1	270	470	23	19	30	46	10	36	15	13	4.5	8	4	10
R10-4B1	10	4	2.381	2.6x1	15.8	500	870	27	23	41	49	10	37	17	16	4.5	8	4	10
R12-5B1	12	5	2.381	2.6x1	18.9	560	1090	31	24	40	50	10	40	18	18	4.5	8	4	12
R12-6B1	12	6	2.381	2.6x1	18.9	560	1090	29	24	43	50	10	40	20	16	4.5	8	4	12
R12-10A1	12	10	2.381	1.6x1	11.5	360	650	30	24	42	50	10	40	17	17	4.5	8	4	12
R12-10B1	12	10	2.381	2.6x1	18.4	550	1070	31	25	50	50	10	40	19	18	4.5	8	4	12
R12-20A1	12	20	2.381	1.6x1	10.8	350	670	29	25	65	50	10	40	20	16	4.5	8	4	12
R14-4B1	14	4	2.381	2.6x1	20.7	600	1250	32	26	41	52	10	42	20	17	4.5	8	4	12
R15-5B1	15	5	3.175	2.6x1	23.3	920	1820	35	30	44	58	10	45	23	20	5.5	9.5	5.5	12
R15-10B1	15	10	3.175	2.6x1	23.2	900	1800	40	30	55	57	11	45	24	19	5.5	9.5	5.5	12
R15-20A1	15	20	3.175	1.6x1	13.9	570	1110	40	32	64	60	11	47	25	22	5.5	9.5	5.5	12
R15-30A1	15	30	3.175	1.6x1	13.1	560	1150	41	33	85	62	11	50	27	21	5.5	9.5	5.5	12
R16-5B1	16	5	3.175	2.6x1	24.5	950	1960	38	31	45	64	12	51	24	20	5.5	9.5	5.5	12
R16-5B2	16	5	3.175	2.6x2	47.7	1730	3920	38	31	60	64	12	51	24	20	5.5	9.5	5.5	12
R16-10B1	16	10	3.175	2.6x1	24.6	940	1930	39	31	60	64	12	51	23	21	5.5	9.5	5.5	12
R20-4B1	20	4	2.381	2.6x1	27.4	720	1850	40	36	42	68	12	55	26	22	5.5	9.5	5.5	12
R20-4B2	20	4	2.381	2.6x2	53.3	1310	3700	40	36	54	68	12	55	26	22	5.5	9.5	5.5	12
R20-5B1	20	5	3.175	2.6x1	29.3	1070	2490	42	37	45	68	12	55	26	23	5.5	9.5	5.5	12
R20-5B2	20	5	3.175	2.6x2	56.8	1950	4980	42	37	60	68	12	55	26	23	5.5	9.5	5.5	12
R20-40A1	20	40	3.175	1.6x1	22.1	630	1500	48	41	100	73	12	60	33	24	5.5	9.5	5.5	12
R20-10B1	20	10	3.969	2.6x1	32.7	1410	3040	46	40	54	72	12	59	30	25	5.5	9.5	5.5	12
R25-4B2	25	4	2.381	2.6x2	63.2	1450	4740	46	42	48	69	11	57	30	25	5.5	9.5	5.5	12
R25-5B2	25	5	3.175	2.6x2	67.4	2170	6310	49	44	60	74	12	62	33	25	5.5	9.5	5.5	12
R25-10B1	25	10	3.175	2.6x1	35.8	1180	3130	49	44	65	74	12	62	31	26	5.5	9.5	5.5	12
R25-12A1	25	12	3.969	1.6x1	24.8	1040	2370	55	47	48	78	11	64	33	29	6.6	11	6.5	12
R25-12B1	25	12	3.969	2.6x1	39.5	1590	3860	53	46	60	78	11	64	33	28	6.6	11	6.5	12
R25-12C1	25	12	3.969	3.6x1	53.9	2100	5350	53	46	72	78	11	64	33	28	6.6	11	6.5	12
R25-25A1	25	25	3.969	1.6x1	24.6	1030	2410	55	50	78	82	12	69	37	29	6.6	11	6.5	12
R25-8B1	25	8	4.763	2.6x1	40.6	2050	4700	57	48	56	86	15	73	34	30	6.6	11	6.5	12
R25-8B2	25	8	4.763	2.6x2	78.7	3730	9400	57	48	80	86	15	73	34	30	6.6	11	6.5	12
R25-10A2	25	10	4.763	1.6x2	49.7	2440	5770	55	49	75	86	15	73	35	30	6.6	11	6.5	12
R25-10B1	25	10	4.763	2.6x1	40.7	2040	4690	55	49	65	86	15	73	35	30	6.6	11	6.5	12
R25-10B2	25	10	4.763	2.6x2	79.7	3710	9380	55	49	97	86	15	73	35	30	6.6	11	6.5	12
R25-16B1	25	16	4.763	2.6x1	40.6	2010	4630	57	49	83	86	15	73	36	29	6.6	11	6.5	12
R25-20B1	25	20	4.763	2.6x1	40	1990	4590	55	48	95	86	15	73	35	29	6.6	11	6.5	12
R28-5B1	28	5	3.175	2.6x1	37.7	1250	3550	54	48	45	85	12	69	34	28	6.6	11	6.5	12
R28-5B2	28	5	3.175	2.6x2	73.3	2280	7100	54	48	60	85	12	69	34	28	6.6	11	6.5	12
R28-6B1	28	6	3.175	2.6x1	38.3	1250	3550	55	47	48	85	12	69	34	27	6.6	11	6.5	12
R28-6B2	28	6	3.175	2.6x2	74.4	2280	7100	55	47	63	85	12	69	34	27	6.6	11	6.5	12
R28-8B1	28	8	4.763	2.6x1	44.2	2170	5300	58	52	60	86	12	73	37	31	6.6	11	6.5	12
R28-8B2	28	8	4.763	2.6x2	85.8	3950	10600	58	52	83	86	12	73	37	31	6.6	11	6.5	12
R28-8C1	28	8	4.763	3.6x1	60.3	2880	7340	58	52	65	86	12	73	37	31	6.6	11	6.5	12
R28-8C2	28	8	4.763	3.6x2	117.1	5230	14680	58	52	97	86	12	73	37	31	6.6	11	6.5	12
R28-10B1	28	10	4.763	2.6x1	44.7	2170	5290	60	53	64	88	12	75	39	32	6.6	11	6.5	12
R28-10B2	28	10	4.763	2.6x2	86.7	3940	10580	60	53	94	88	12	75	39	32	6.6	11	6.5	12

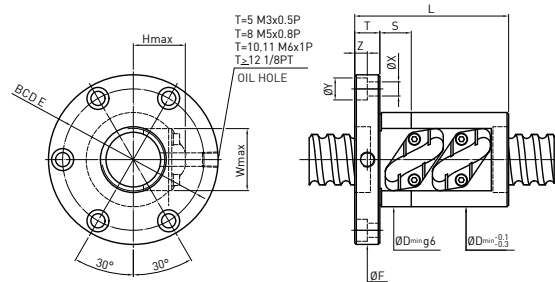
Note: Rigidity without preload: The axial load is calculated by 30% of dynamic load.

F S T TYPE

◀ Standard Product



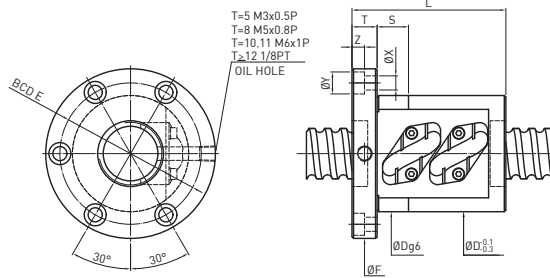
Re-circulation plate below the nut body



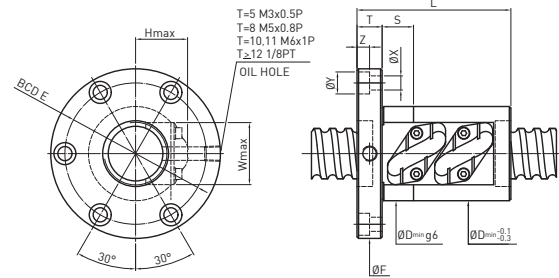
Re-circulation plate above the nut body

Model	Size		Ball Dia.	Circuits	Rigidity K (kgf/μm)	Dynamic Load C(kgf)	Static Load Co(kgf)	Nut			Flange			Return Tube		Bolt			Fit
	Nominal Dia.	Lead						D	D _{min}	L	F	T	BCD-E	W	H	X	Y	Z	
R28-12C2	28	12	4.763	3.6x2	118.7	5200	14610	60	52	125	86	12	73	37	32	6.6	11	6.5	12
R28-16B2	28	16	6.35	2.6x2	87.6	5520	13440	66	56	128	94	12	80	39	35	6.6	11	6.5	12
R32-4B2	32	4	2.381	2.6x2	74.4	1600	6080	54	50	55	84	12	71	35	27	6.6	11	6.5	12
R32-5B2	32	5	3.175	2.6x2	80.3	2420	8160	57	52	60	84	12	71	34	29	6.6	11	6.5	12
R32-6B2	32	6	3.969	2.6x2	90.8	3310	10270	60	56	63	88	12	75	39	31	6.6	11	6.5	12
R32-10B2	32	10	3.969	2.6x2	93.8	3300	10230	58	54	87	84	12	71	38	31	6.6	11	6.5	12
R32-8B2	32	8	4.763	2.6X2	92.3	4130	11820	62	58	86	96	16	78	40	33	9	14	8.5	15
R32-10B2	32	10	4.763	2.6X2	93.3	4120	11800	60	57	95	96	16	78	39	33	9	14	8.5	15
R32-12B2	32	12	4.763	2.6X2	93.9	4110	11770	61	57	105	96	16	78	39	33	9	14	8.5	15
R32-20B1	32	20	4.763	2.6X1	50.3	2300	6090	64	57	100	102	16	84	40	34	9	14	8.5	15
R32-25B1	32	25	4.763	2.6X1	49.6	2270	6030	63	58	110	102	16	84	41	32	9	14	8.5	15
R32-10A2	32	10	6.35	1.6x2	61.3	3980	9650	68	62	80	102	16	84	43	36	9	14	8.5	15
R32-10B2	32	10	6.35	2.6x2	97.6	6040	15690	70	61	98	108	16	90	43	36	9	14	8.5	15
R32-10C1	32	10	6.35	3.6x1	68.7	4400	10860	70	60	78	108	16	90	42	37	9	14	8.5	15
R32-12A2	32	12	6.35	1.6x2	61.7	3970	9630	68	60	97	108	18	90	42	35	9	14	8.5	15
R32-12B2	32	12	6.35	2.6x2	97.9	6020	15660	66	60	110	108	18	90	42	35	9	14	8.5	15
R32-12C1	32	12	6.35	3.6x1	69	4390	10840	69	61	98	108	18	90	43	36	9	14	8.5	15
R32-16B1	32	16	6.35	2.6x1	50.7	3290	7790	71	61	94	108	16	90	44	37	9	14	8.5	15
R32-16B2	32	16	6.35	2.6x2	98.4	5980	15580	71	61	130	108	16	90	44	37	9	14	8.5	15
R32-16C1	32	16	6.35	3.6x1	69.2	4360	10790	71	61	100	108	16	90	44	37	9	14	8.5	15
R32-20B1	32	20	6.35	2.6x1	50.4	3270	7740	68	60	98	108	16	90	42	36	9	14	8.5	15
R32-12B2	32	12	7.144	2.6x2	97.9	6900	17180	74	64	115	108	16	90	44	39	9	14	8.5	15
R32-12C1	32	12	7.144	3.6x1	68.8	5020	11900	74	64	95	108	16	90	44	39	9	14	8.5	15
R32-15B2	32	15	7.144	2.6x2	98.1	6860	17120	74	65	130	108	16	90	46	39	9	14	8.5	15
R32-16B2	32	16	7.144	2.6x2	98	6850	17100	74	65	139	108	16	90	45	39	9	14	8.5	15
R36-6B2	36	6	3.969	2.6x2	98.1	3470	11510	65	60	68	100	12	82	43	33	6.6	11	6.5	12
R36-10B2	36	10	6.35	2.6x2	106.9	6430	17810	72	65	102	125	18	98	45	38	11	17.5	11	15
R36-16A2	36	16	6.35	1.6x2	68.3	4210	10900	74	66	105	120	18	98	47	38	11	17.5	11	15
R36-16B2	36	16	6.35	2.6x2	108.6	6390	17720	74	66	140	120	18	98	47	38	11	17.5	11	15
R36-20B1	36	20	6.35	2.6x1	55.9	3490	8810	76	66	100	120	18	98	47	39	11	17.5	11	15
R40-8A2	40	8	4.763	1.6x2	70.3	3070	9460	75	70	70	108	16	90	47	38	9	14	8.5	15
R40-8B2	40	8	4.763	2.6x2	111.9	4670	15380	74	72	86	108	16	90	50	38	9	14	8.5	15
R40-8C2	40	8	4.763	3.6x2	152.9	6180	21300	74	70	100	108	16	90	47	38	9	14	8.5	15
R40-10B2	40	10	4.763	2.6x2	113.3	4660	15360	72	66	100	108	16	90	46	37	9	14	8.5	15
R40-16B2	40	16	4.763	2.6x2	115.5	4630	15290	72	69	134	108	16	90	48	37	9	14	8.5	15
R40-10B2	40	10	6.35	2.6x2	116	6790	19940	78	74	102	125	18	104	53	41	11	17.5	11	15
R40-10C1	40	10	6.35	3.6x1	81.7	4950	13800	79	70	82	125	18	104	48	41	11	17.5	11	15
R40-12B2	40	12	6.35	2.6x2	117.2	6780	19910	78	70	117	128	18	106	48	41	11	17.5	11	15
R40-12C2	40	12	6.35	3.6x2	160	8970	27570	78	71	141	128	18	106	50	40	11	17.5	11	15
R40-16B2	40	16	6.35	2.6x2	118.5	6750	19850	81	73	139	128	18	106	48	41	11	17.5	11	15
R40-20A1	40	20	6.35	1.6x1	38.4	2430	6080	80	72	84	128	18	106	49	42	11	17.5	11	15
R40-20A2	40	20	6.35	1.6x2	74.5	4420	12160	80	72	124	128	18	106	49	42	11	17.5	11	15
R40-20B1	40	20	6.35	2.6x1	61.6	3700	9880	80	71	104	128	18	106	49	42	11	17.5	11	15
R40-20B2	40	20	6.35	2.6x2	118.5	6710	19760	80	71	161	128	18	106	49	42	11	17.5	11	15
R40-20C1	40	20	6.35	3.6x1	83.4	4890	13680	80	71	121	128	18	106	49	42	11	17.5	11	15
R40-25A1	40	25	6.35	1.6x1	38.2	2410	6040	78	73	90	128	18	106	52	40	11	17.5	11	15
R40-25B1	40	25	6.35	2.6x1	60.7	3670	9820	78	73	115	128	18	106	52	40	11	17.5	11	15
R40-10A2	40	10	7.144	1.6x2	74.6	5250	13870	82	73	82	128	18	106	51	42	11	17.5	11	20

Note: Rigidity without preload: The axial load is calculated by 30% of dynamic load.

F S T TYPE
Standard Product


Re-circulation plate below the nut body



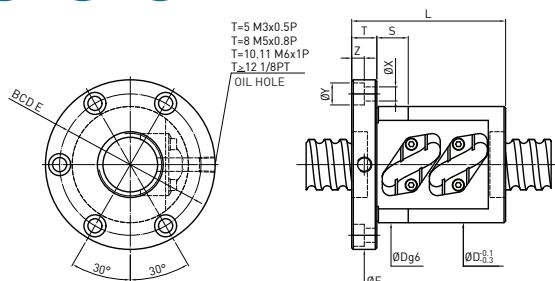
Re-circulation plate above the nut body

Model	Size		Ball Dia.	Circuits	Rigidity K (kgf/μm)	Dynamic Load C(kgf)	Static Load Co(kgf)	Nut			Flange			Return Tube		Bolt			Fit
	Nominal Dia.	Lead						D	D _{min}	L	F	T	BCD-E	W	H	X	Y	Z	
R40-10B2	40	10	7.144	2.6x2	118.8	7980	22550	82	73	102	128	18	106	51	42	11	17.5	11	20
R40-10C2	40	10	7.144	3.6x2	162.2	10550	31220	82	73	122	128	18	106	51	42	11	17.5	11	20
R40-12A2	40	12	7.144	1.6x2	75.3	5240	13860	80	73	93	128	18	106	52	42	11	17.5	11	20
R40-12B1	40	12	7.144	2.6x1	61.7	4390	11260	79	74	81	128	18	106	52	42	11	17.5	11	20
R40-12B2	40	12	7.144	2.6x2	119.7	7960	22520	79	74	117	128	18	106	52	42	11	17.5	11	20
R40-12C1	40	12	7.144	3.6x1	84.2	5800	15590	79	74	93	128	18	106	52	41	11	17.5	11	20
R40-12C2	40	12	7.144	3.6x2	163.4	10540	31180	79	74	141	128	18	106	52	41	11	17.5	11	20
R40-16A2	40	16	7.144	1.6x2	76.1	5220	13810	81	73	118	128	18	106	49	42	11	17.5	11	20
R40-16B1	40	16	7.144	2.6x1	62.4	4370	11220	81	72	102	128	18	106	49	42	11	17.5	11	20
R40-16B2	40	16	7.144	2.6x2	121	7930	22450	81	72	145	128	18	106	49	42	11	17.5	11	20
R40-16C1	40	16	7.144	3.6x1	85.1	5780	15540	81	73	118	128	18	106	49	42	11	17.5	11	20
R40-20A2	40	20	7.144	1.6x2	76.2	5190	13750	82	74	124	128	18	106	52	42	11	17.5	11	20
R40-20B1	40	20	7.144	2.6x1	62.5	4340	11170	82	74	104	128	18	106	52	42	11	17.5	11	20
R40-20B2	40	20	7.144	2.6x2	121.2	7890	22350	82	74	161	128	18	106	52	42	11	17.5	11	20
R40-20C1	40	20	7.144	3.6x1	85.3	5750	15470	82	74	121	128	18	106	52	42	11	17.5	11	20
R40-25A1	40	25	7.144	1.6x1	39.1	2840	6830	83	73	90	128	18	106	51	43	11	17.5	11	20
R40-25B1	40	25	7.144	2.6x1	62.2	4310	11100	83	73	115	128	18	106	51	43	11	17.5	11	20
R45-5B2	45	5	3.175	2.6x2	100.6	2780	11610	72	68	65	108	16	90	45	37	9	14	8.5	15
R45-8B2	45	8	4.763	2.6x2	120.4	4880	17180	80	75	84	116	16	98	50	39	9	14	8.5	15
R45-10B1	45	10	6.35	2.6x1	66.5	4020	11540	84	77	74	132	18	110	53	44	11	17.5	11	15
R45-10B2	45	10	6.35	2.6x2	129.1	7300	23090	84	77	104	132	18	110	53	44	11	17.5	11	15
R45-12A2	45	12	6.35	1.6x2	75.3	4800	14190	85	78	86	132	18	110	53	43	11	17.5	11	15
R45-16A2	45	16	6.35	1.6x2	83.2	4780	14160	84	78	102	132	18	110	53	43	11	17.5	11	15
R45-20B2	45	20	6.35	2.6x2	132.9	7230	22930	84	78	162	132	18	110	53	44	11	17.5	11	15
R45-20C1	45	20	6.35	3.6x1	93.5	5270	15870	84	78	120	132	18	110	53	44	11	17.5	11	15
R45-12B2	45	12	7.144	2.6x2	130	8390	25230	87	80	115	132	18	110	55	45	11	17.5	11	20
R45-25A1	45	25	7.144	1.6x1	42.8	3000	7670	90	82	90	132	18	110	58	47	11	17.5	11	20
R45-25B1	45	25	7.144	2.6x1	68.1	4550	12470	90	82	115	132	18	110	58	47	11	17.5	11	20
R45-25C1	45	25	7.144	3.6x1	93	6030	17270	90	82	140	132	18	110	58	47	11	17.5	11	20
R45-12B2	45	12	7.938	2.6x2	131.7	9620	27850	92	84	123	142	22	117	58	47	13	20	13	20
R45-20B2	45	20	7.938	2.6x2	133.7	9550	27690	91	80	175	142	22	117	55	47	13	20	13	20
R45-25B1	45	25	7.938	2.6x1	68.9	5220	13770	93	81	124	142	22	117	55	48	13	20	13	20
R50-8B2	50	8	4.763	2.6x2	127.8	5070	18980	83	80	88	128	18	107	55	41	11	17.5	11	15
R50-8B3	50	8	4.763	2.6x3	188.5	7180	28470	83	80	112	128	18	107	55	41	11	17.5	11	15
R50-12B1	50	12	4.763	2.6x1	68.4	2780	9470	85	82	74	128	18	107	57	43	11	17.5	11	15
R50-10B2	50	10	6.35	2.6x2	136.9	7550	25240	90	85	104	135	18	114	57	47	11	17.5	11	15
R50-20B2	50	20	6.35	2.6x2	141.9	7490	25100	90	83	162	135	18	114	55	46	11	17.5	11	15
R50-25B2	50	25	7.144	2.6x2	143	8670	27680	95	90	191	140	18	118	64	47	11	17.5	11	15
R50-12B1	50	12	7.938	2.6x1	73.4	5590	15580	96	90	87	150	22	125	62	50	13	20	13	20
R50-12B2	50	12	7.938	2.6x2	142.5	10150	31170	96	90	123	150	22	125	62	50	13	20	13	20
R50-16A2	50	16	7.938	1.6x2	91	6670	19140	96	89	113	150	22	125	61	50	13	20	13	20
R50-16B2	50	16	7.938	2.6x2	144.8	10120	31100	97	88	152	150	22	125	61	50	13	20	13	20
R50-16C2	50	16	7.938	3.6x2	197.5	13390	43070	96	89	184	150	22	125	61	50	13	20	13	20
R50-20A2	50	20	7.938	1.6x2	91.6	6640	19090	98	91	134	150	22	125	63	50	13	20	13	20
R50-20B2	50	20	7.938	2.6x2	145.7	10090	31020	97	89	165	150	22	125	62	50	13	20	13	20
R50-20C1	50	20	7.938	3.6x1	102.6	7350	21470	98	91	130	150	22	125	63	50	13	20	13	20
R50-25B2	50	25	7.938	2.6x2	145.7	10030	30890	99	88	193	150	22	125	60	49	13	20	13	20
R50-20B2	50	20	9.525	2.6x2	152.7	13500	37530	99	93	175	152	28	128	67	51	13	20	13	30

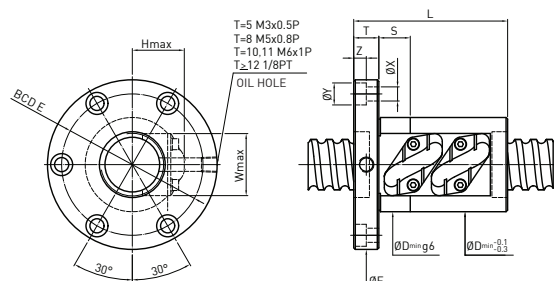
Note: Rigidity without preload: The axial load is calculated by 30% of dynamic load.

F S T TYPE

◀ Standard Product



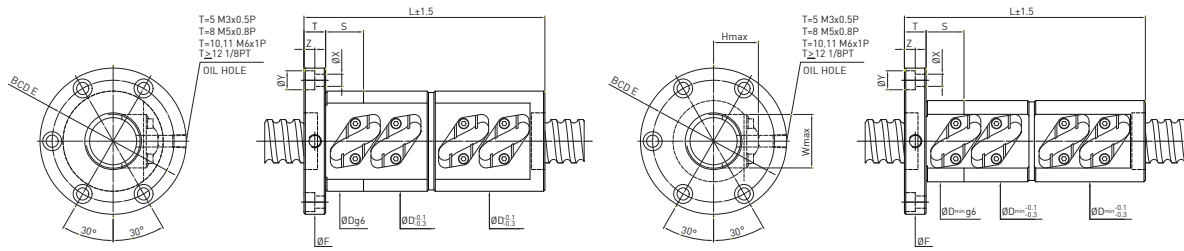
Re-circulation plate below the nut body



Re-circulation plate above the nut body

Model	Size		Ball Dia.	Circuits	Rigidity K (kgf/μm)	Dynamic Load C(kgf)	Static Load Co(kgf)	Nut			Flange			Return Tube		Bolt			Fit
	Nominal Dia.	Lead						D	D _{min}	L	F	T	BCD-E	W	H	X	Y	Z	
R55-10B2	55	10	6.35	2.6x2	144.2	7790	27390	95	92	103	144	18	122	62	48	11	17.5	11	20
R55-20B2	55	20	7.144	2.6x2	157.8	9330	31780	96	93	165	144	18	122	64	49	11	17.5	11	20
R55-24A1	55	24	7.144	1.6x1	51.5	3370	9750	99	93	94	144	18	122	64	50	11	17.5	11	20
R55-24A2	55	24	7.144	1.6x2	99.8	6120	19500	99	93	142	144	18	122	64	50	11	17.5	11	20
R55-24B2	55	24	7.144	2.6x2	158.7	9290	31690	99	93	189	144	18	122	64	50	11	17.5	11	20
R60-24A2	60	24	9.525	1.6x2	108.7	9285	27490	113	104	150	170	22	145	71	58	13	20	13	20
R60-32C1	60	32	9.525	3.6x1	123.8	10731	30750	114	105	180	170	22	145	72	57	13	20	13	20
R63-8B2	63	8	4.763	2.6x2	151.3	5610	24340	102	98	100	146	18	124	66	49	11	17.5	11	20
R63-10B2	63	10	6.35	2.6x2	159.4	8270	31630	107	103	107	152	20	130	71	52	11	17.5	11	20
R63-10B3	63	10	6.35	2.6x3	235.1	11720	47440	107	103	137	152	20	130	71	52	11	17.5	11	20
R63-12B2	63	12	7.938	2.6x2	167.5	11270	39470	110	106	124	166	22	141	71	57	13	20	13	20
R63-32B1	63	32	7.938	2.6x1	90.2	6120	19530	113	107	145	166	22	141	76	55	13	20	13	20
R63-16B2	63	16	9.525	2.6x2	178.6	14861	47240	122	114	153	172	22	147	82	60	13	20	13	20
R63-20B2	63	20	9.525	2.6x2	180.3	14861	47160	118	111	176	172	22	147	77	60	13	20	13	20
R63-25B2	63	25	9.525	2.6x2	181.7	14861	47040	118	110	200	172	22	147	76	59	13	20	13	20
R63-32A2	63	32	9.525	1.6x2	113.9	9629	28810	115	107	180	172	22	147	73	58	13	20	13	20
R70-32B1	70	32	7.938	2.6x1	99.2	6470	22020	125	119	150	178	22	152	85	62	13	20	13	20
R80-16B2	80	16	9.525	2.6x2	214.2	16483	61530	142	136	156	210	28	174	97	68	18	26	17.5	25
R80-16B3	80	16	9.525	2.6x3	315.9	23361	92300	142	136	204	210	28	174	97	68	18	26	17.5	25
R80-24B2	80	24	9.525	2.6x2	219	16483	61380	134	130	209	210	28	174	86	67	18	26	17.5	25
R80-32B2	80	32	9.525	2.6x2	222.5	16483	61180	142	137	250	210	28	174	98	68	18	26	17.5	25

Note: Rigidity without preload: The axial load is calculated by 30% of dynamic load.

F D T TYPE
◀ Standard Product


Re-circulation plate below the nut body

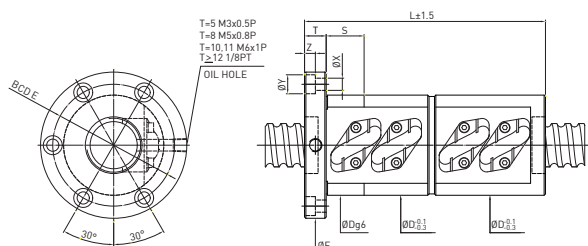
Re-circulation plate above the nut body

Model	Size		Ball Dia.	Circuits	Rigidity K (kgf/μm)	Dynamic Load C(kgf)	Static Load Col(kgf)	Nut			Flange			Return Tube		Bolt			Fit
	Nominal Dia.	Lead						D	D _{min}	L	F	T	BCD-E	W	H	X	Y	Z	S
R8-3A1	8	3	2	1.6x1	10.4	230	350	21	17	57	36	5	28	14	12	4.5	0	0	0
R8-5B1	8	5	2	2.6x1	15.1	360	600	24	18	74	44	8	34	15	13	4.5	8	4	0
R10-4B1	10	4	2	2.6x1	18.4	410	770	24	20	73	46	10	36	16	13	4.5	8	4	20
R10-5A1	10	5	2	1.6x1	13.2	270	470	23	19	57	46	10	36	15	13	4.5	8	4	20
R10-4B1	10	4	2.381	2.6x1	18.4	500	870	27	23	80	49	10	37	17	16	4.5	8	4	20
R12-5B1	12	5	2.381	2.6x1	24.8	560	1090	31	24	78	50	10	40	18	18	4.5	8	4	24
R12-6B1	12	6	2.381	2.6x1	24.8	560	1090	29	24	82	50	10	40	20	16	4.5	8	4	24
R12-10A1	12	10	2.381	1.6x1	15.1	360	650	30	24	85	50	10	40	17	17	4.5	8	4	24
R12-10B1	12	10	2.381	2.6x1	24.1	550	1070	31	25	103	50	10	40	19	18	4.5	8	4	24
R12-20A1	12	20	2.381	1.6x1	14.2	350	670	29	25	128	50	10	40	20	16	4.5	8	4	24
R14-4B1	14	4	2.381	2.6x1	27.3	600	1250	32	26	80	52	10	42	20	17	4.5	8	4	24
R15-5B1	15	5	3.175	2.6x1	30.7	920	1820	35	30	88	58	10	45	23	20	5.5	9.5	5.5	24
R15-10B1	15	10	3.175	2.6x1	30.5	900	1800	40	30	109	57	11	45	24	19	5.5	9.5	5.5	24
R15-20A1	15	20	3.175	1.6x1	18.2	570	1110	40	32	128	60	11	47	25	22	5.5	9.5	5.5	24
R15-30A1	15	30	3.175	1.6x1	17.1	560	1150	41	33	179	62	11	50	27	21	5.5	9.5	5.5	24
R16-5B1	16	5	3.175	2.6x1	32.4	950	1960	38	31	89	64	12	51	24	20	5.5	9.5	5.5	24
R16-5B2	16	5	3.175	2.6x2	62.9	1730	3920	38	31	119	64	12	51	24	20	5.5	9.5	5.5	24
R16-10B1	16	10	3.175	2.6x1	32.3	940	1930	39	31	124	64	12	51	23	21	5.5	9.5	5.5	24
R20-4B1	20	4	2.381	2.6x1	36.3	720	1850	40	36	81	68	12	55	26	22	5.5	9.5	5.5	24
R20-4B2	20	4	2.381	2.6x2	70.6	1310	3700	40	36	105	68	12	55	26	22	5.5	9.5	5.5	24
R20-5B1	20	5	3.175	2.6x1	38.7	1070	2490	42	37	89	68	12	55	26	23	5.5	9.5	5.5	24
R20-5B2	20	5	3.175	2.6x2	75.1	1950	4980	42	37	119	68	12	55	26	23	5.5	9.5	5.5	24
R20-40A1	20	40	3.175	1.6x1	20.9	630	1500	48	41	224	73	12	60	33	24	5.5	9.5	5.5	24
R20-10B1	20	10	3.969	2.6x1	43	1410	3040	46	40	108	72	12	59	30	25	5.5	9.5	5.5	24
R25-4B2	25	4	2.381	2.6x2	84	1450	4740	46	42	91	69	11	57	30	25	5.5	9.5	5.5	24
R25-5B2	25	5	3.175	2.6x2	89.2	2170	6310	49	44	119	74	12	62	33	25	5.5	9.5	5.5	24
R25-10B1	25	10	3.175	2.6x1	47.1	1180	3130	49	44	129	74	12	62	31	26	5.5	9.5	5.5	24
R25-12A1	25	12	3.969	1.6x1	32.6	1040	2370	55	47	100	78	11	64	33	29	6.6	11	6.5	24
R25-12B1	25	12	3.969	2.6x1	52	1590	3860	53	46	124	78	11	64	33	28	6.6	11	6.5	24
R25-12C1	25	12	3.969	3.6x1	70.9	2100	5350	53	46	148	78	11	64	33	28	6.6	11	6.5	24
R25-25A1	25	25	3.969	1.6x1	32.3	1030	2410	55	50	157	82	12	69	37	29	6.6	11	6.5	24
R25-8B1	25	8	4.763	2.6x1	53.5	2050	4700	57	48	109	86	15	73	34	30	6.6	11	6.5	24
R25-8B2	25	8	4.763	2.6x2	103.9	3730	9400	57	48	157	86	15	73	34	30	6.6	11	6.5	24
R25-10A2	25	10	4.763	1.6x2	65.5	2440	5770	55	49	150	86	15	73	35	30	6.6	11	6.5	24
R25-10B1	25	10	4.763	2.6x1	47.1	2040	4690	55	49	130	86	15	73	35	30	6.6	11	6.5	24
R25-10B2	25	10	4.763	2.6x2	104.2	3710	9380	55	49	192	86	15	73	35	30	6.6	11	6.5	24
R25-16B1	25	16	4.763	2.6x1	53.3	2010	4630	57	49	168	86	15	73	36	29	6.6	11	6.5	24
R25-20B1	25	20	4.763	2.6x1	52.5	1990	4590	55	48	200	86	15	73	35	29	6.6	11	6.5	24
R28-5B1	28	5	3.175	2.6x1	50	1250	3550	54	48	89	85	12	69	34	28	6.6	11	6.5	24
R28-5B2	28	5	3.175	2.6x2	97.2	2280	7100	54	48	119	85	12	69	34	28	6.6	11	6.5	24
R28-6B1	28	6	3.175	2.6x1	50.7	1250	3550	55	47	94	85	12	69	34	27	6.6	11	6.5	24
R28-6B2	28	6	3.175	2.6x2	98.5	2280	7100	55	47	127	85	12	69	34	27	6.6	11	6.5	24
R28-8B1	28	8	4.763	2.6x1	58.4	2170	5300	58	52	121	86	12	73	37	31	6.6	11	6.5	24
R28-8B2	28	8	4.763	2.6x2	113.3	3950	10600	58	52	168	86	12	73	37	31	6.6	11	6.5	24
R28-8C1	28	8	4.763	3.6x1	79.7	2880	7340	58	52	134	86	12	73	37	31	6.6	11	6.5	24
R28-8C2	28	8	4.763	3.6x2	154.7	5230	14680	58	52	198	86	12	73	37	31	6.6	11	6.5	24
R28-10B1	28	10	4.763	2.6x1	58.9	2170	5290	60	53	129	88	12	75	39	32	6.6	11	6.5	24
R28-10B2	28	10	4.763	2.6x2	114.3	3940	10580	60	53	189	88	12	75	39	32	6.6	11	6.5	24

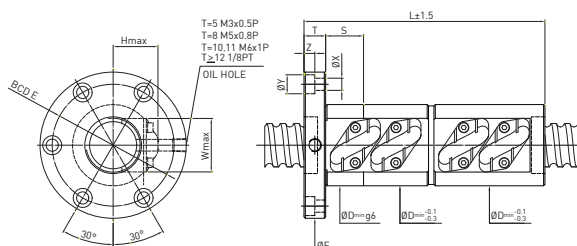
Note: Rigidity with preload: The axial load is calculated by 10% of dynamic load.

F D T TYPE

◀ Standard Product



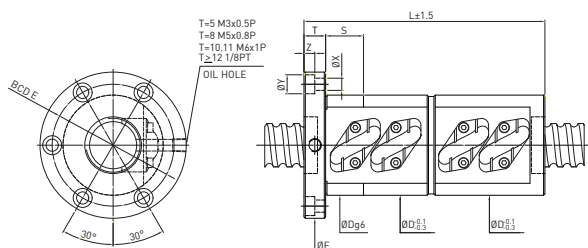
Re-circulation plate below the nut body



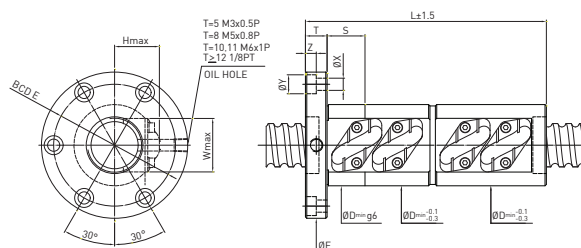
Re-circulation plate above the nut body

Model	Size		Ball Dia.	Circuits	Rigidity K (kgf/μm)	Dynamic Load C(kgf)	Static Load Co(kgf)	Nut			Flange			Return Tube		Bolt			Fit
	Nominal Dia.	Lead						D	D _{min}	L	F	T	BCD-E	W	H	X	Y	Z	S
R28-12C2	28	12	4.763	3.6x2	156.2	5200	14610	60	52	250	86	12	73	37	32	6.6	11	6.5	24
R28-16B2	28	16	6.35	2.6x2	115.1	5520	13440	66	56	263	94	12	80	39	35	6.6	11	6.5	24
R32-4B2	32	4	2.381	2.6x2	99.3	1600	6080	54	50	90	84	12	71	35	27	6.6	11	6.5	24
R32-5B2	32	5	3.175	2.6x2	106.8	2420	8160	57	52	119	84	12	71	34	29	6.6	11	6.5	24
R32-6B2	32	6	3.969	2.6x2	120.6	3310	10270	60	56	127	88	12	75	39	31	6.6	11	6.5	24
R32-10B2	32	10	3.969	2.6x2	123.9	3300	10230	58	54	171	84	12	71	38	31	6.6	11	6.5	24
R32-8B2	32	8	4.763	2.6x2	122.2	4130	11820	62	58	171	96	16	78	40	33	9	14	8.5	30
R32-10B2	32	10	4.763	2.6x2	123.9	4120	11800	60	57	190	96	16	78	39	33	9	14	8.5	30
R32-12B2	32	12	4.763	2.6x2	123.8	4110	11770	61	57	206	96	16	78	39	33	9	14	8.5	30
R32-20B1	32	20	4.763	2.6x1	66.1	2300	6090	64	57	205	102	16	84	40	34	9	14	8.5	30
R32-25B1	32	25	4.763	2.6x1	65.1	2270	6030	63	58	215	102	16	84	41	32	9	14	8.5	30
R32-10A2	32	10	6.35	1.6x2	80.9	3980	9650	68	62	157	102	16	84	43	36	9	14	8.5	30
R32-10B2	32	10	6.35	2.6x2	123.9	6040	15690	70	61	195	108	16	90	43	36	9	14	8.5	30
R32-10C1	32	10	6.35	3.6x1	90.6	4400	10860	70	60	155	108	16	90	42	37	9	14	8.5	30
R32-12A2	32	12	6.35	1.6x2	81.3	3970	9630	68	60	188	108	18	90	42	35	9	14	8.5	30
R32-12B2	32	12	6.35	2.6x2	123.8	6020	15660	66	60	213	108	18	90	42	35	9	14	8.5	30
R32-12C1	32	12	6.35	3.6x1	91	4390	10840	69	61	189	108	18	90	43	36	9	14	8.5	30
R32-16B1	32	16	6.35	2.6x1	66.7	3290	7790	71	61	197	108	16	90	44	37	9	14	8.5	30
R32-16B2	32	16	6.35	2.6x2	129.4	5980	15580	71	61	265	108	16	90	44	37	9	14	8.5	30
R32-16C1	32	16	6.35	3.6x1	91.1	4360	10790	71	61	203	108	16	90	44	37	9	14	8.5	30
R32-20B1	32	20	6.35	2.6x1	66.1	3270	7740	68	60	205	108	16	90	42	36	9	14	8.5	30
R32-12B2	32	12	7.144	2.6x2	123.8	6900	17180	74	64	231	108	16	90	44	39	9	14	8.5	30
R32-12C1	32	12	7.144	3.6x1	91	5020	11900	74	64	187	108	16	90	44	39	9	14	8.5	30
R32-15B2	32	15	7.144	2.6x2	129	6860	17120	74	65	258	108	16	90	46	39	9	14	8.5	30
R32-16B2	32	16	7.144	2.6x2	129.4	6850	17100	74	65	275	108	16	90	45	39	9	14	8.5	30
R36-6B2	36	6	3.969	2.6x2	130.5	3470	11510	65	60	132	100	12	82	43	33	6.6	11	6.5	24
R36-10B2	36	10	6.35	2.6x2	141.2	6430	17810	72	65	199	125	18	98	45	38	11	17.5	11	30
R36-16A2	36	16	6.35	1.6x2	89.9	4210	10900	74	66	208	120	18	98	47	38	11	17.5	11	30
R36-16B2	36	16	6.35	2.6x2	142.9	6390	17720	74	66	275	120	18	98	47	38	11	17.5	11	30
R36-20B1	36	20	6.35	2.6x1	73.5	3490	8810	76	66	207	120	18	98	47	39	11	17.5	11	30
R40-8A2	40	8	4.763	1.6x2	93.2	3070	9460	75	70	139	108	16	90	47	38	9	14	8.5	30
R40-8B2	40	8	4.763	2.6x2	148.5	4670	15380	74	72	171	108	16	90	50	38	9	14	8.5	30
R40-8C2	40	8	4.763	3.6x2	202.7	6180	21300	74	70	193	108	16	90	47	38	9	14	8.5	30
R40-10B2	40	10	4.763	2.6x2	150	4660	15360	72	66	195	108	16	90	46	37	9	14	8.5	30
R40-16B2	40	16	4.763	2.6x2	152.3	4630	15290	72	69	267	108	16	90	48	37	9	14	8.5	30
R40-10B2	40	10	6.35	2.6x2	150	6790	19940	78	74	199	125	18	104	53	41	11	17.5	11	30
R40-10C1	40	10	6.35	3.6x1	108.1	4950	13800	79	70	159	125	18	104	48	41	11	17.5	11	30
R40-12B2	40	12	6.35	2.6x2	154.8	6780	19910	78	70	232	128	18	106	48	41	11	17.5	11	30
R40-12C2	40	12	6.35	3.6x2	211.2	8970	27570	78	71	280	128	18	106	50	40	11	17.5	11	30
R40-16B2	40	16	6.35	2.6x2	152.3	6750	19850	81	73	274	128	18	106	48	41	11	17.5	11	30
R40-20A1	40	20	6.35	1.6x1	50.5	2430	6080	80	72	171	128	18	106	49	42	11	17.5	11	30
R40-20A2	40	20	6.35	1.6x2	98	4420	12160	80	72	251	128	18	106	49	42	11	17.5	11	30
R40-20B1	40	20	6.35	2.6x1	80.4	3700	9880	80	71	211	128	18	106	49	42	11	17.5	11	30
R40-20B2	40	20	6.35	2.6x2	155.8	6710	19760	80	71	328	128	18	106	49	42	11	17.5	11	30
R40-20C1	40	20	6.35	3.6x1	109.7	4890	13680	80	71	248	128	18	106	49	42	11	17.5	11	30
R40-25A1	40	25	6.35	1.6x1	50.2	2410	6040	78	73	197	128	18	106	52	40	11	17.5	11	30
R40-25B1	40	25	6.35	2.6x1	79.8	3670	9820	78	73	247	128	18	106	52	40	11	17.5	11	30
R40-10A2	40	10	7.144	1.6x2	98.8	5250	13870	82	73	160	128	18	106	51	42	11	17.5	11	40

Note: Rigidity with preload: The axial load is calculated by 10% of dynamic load.

F D T TYPE
Standard Product


Re-circulation plate below the nut body



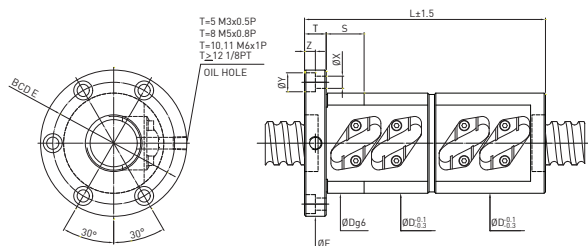
Re-circulation plate above the nut body

Model	Size		Ball Dia.	Circuits	Rigidity K (kgf/μm)	Dynamic Load C(kgf)	Static Load Co(kgf)	Nut			Flange			Return Tube		Bolt			Fit
	Nominal Dia.	Lead						D	D _{min}	L	F	T	BCD-E	W	H	X	Y	Z	
R40-10B2	40	10	7.144	2.6x2	150	7980	22550	82	73	200	128	18	106	51	42	11	17.5	11	40
R40-10C2	40	10	7.144	3.6x2	214.5	10550	31220	82	73	240	128	18	106	51	42	11	17.5	11	40
R40-12A2	40	12	7.144	1.6x2	99.4	5240	13860	80	73	185	128	18	106	52	42	11	17.5	11	40
R40-12B1	40	12	7.144	2.6x1	81.5	4390	11260	79	74	161	128	18	106	52	42	11	17.5	11	40
R40-12B2	40	12	7.144	2.6x2	154.8	7960	22520	79	74	233	128	18	106	52	42	11	17.5	11	40
R40-12C1	40	12	7.144	3.6x1	111.2	5800	15590	79	74	185	128	18	106	52	41	11	17.5	11	40
R40-12C2	40	12	7.144	3.6x2	211.2	10540	31180	79	74	281	128	18	106	52	41	11	17.5	11	40
R40-16A2	40	16	7.144	1.6x2	100.2	5220	13810	81	73	238	128	18	106	49	42	11	17.5	11	40
R40-16B1	40	16	7.144	2.6x1	82.2	4370	11220	81	72	206	128	18	106	49	42	11	17.5	11	40
R40-16B2	40	16	7.144	2.6x2	152.3	7930	22450	81	72	297	128	18	106	49	42	11	17.5	11	40
R40-16C1	40	16	7.144	3.6x1	112.2	5780	15540	81	73	238	128	18	106	49	42	11	17.5	11	40
R40-20A2	40	20	7.144	1.6x2	98	5190	13750	82	74	252	128	18	106	52	42	11	17.5	11	40
R40-20B1	40	20	7.144	2.6x1	80.4	4340	11170	82	74	212	128	18	106	52	42	11	17.5	11	40
R40-20B2	40	20	7.144	2.6x2	155.8	7890	22350	82	74	329	128	18	106	52	42	11	17.5	11	40
R40-20C1	40	20	7.144	3.6x1	109.7	5750	15470	82	74	249	128	18	106	52	42	11	17.5	11	40
R40-25A1	40	25	7.144	1.6x1	50.2	2840	6830	83	73	198	128	18	106	51	43	11	17.5	11	40
R40-25B1	40	25	7.144	2.6x1	79.8	4310	11100	83	73	248	128	18	106	51	43	11	17.5	11	40
R45-5B2	45	5	3.175	2.6x2	134.7	2780	11610	72	68	124	108	16	90	45	37	9	14	8.5	30
R45-8B2	45	8	4.763	2.6x2	160	4880	17180	80	75	161	116	16	98	50	39	9	14	8.5	30
R45-10B1	45	10	6.35	2.6x1	88.1	4020	11540	84	77	141	132	18	110	53	44	11	17.5	11	30
R45-10B2	45	10	6.35	2.6x2	171.1	7300	23090	84	77	201	132	18	110	53	44	11	17.5	11	30
R45-12A2	45	12	6.35	1.6x2	99.5	4800	14190	85	78	165	132	18	110	53	43	11	17.5	11	30
R45-16A2	45	16	6.35	1.6x2	109.7	4780	14160	84	78	205	132	18	110	53	43	11	17.5	11	30
R45-20B2	45	20	6.35	2.6x2	175	7230	22930	84	78	329	132	18	110	53	44	11	17.5	11	30
R45-20C1	45	20	6.35	3.6x1	123.2	5270	15870	84	78	247	132	18	110	53	44	11	17.5	11	30
R45-12B2	45	12	7.144	2.6x2	171.9	8390	25230	87	80	231	132	18	110	55	45	11	17.5	11	40
R45-25A1	45	25	7.144	1.6x1	56.3	3000	7670	90	82	198	132	18	110	58	47	11	17.5	11	40
R45-25B1	45	25	7.144	2.6x1	89.5	4550	12470	90	82	248	132	18	110	58	47	11	17.5	11	40
R45-25C1	45	25	7.144	3.6x1	122.2	6030	17270	90	82	298	132	18	110	58	47	11	17.5	11	40
R45-12B2	45	12	7.938	2.6x2	171.9	9620	27850	92	84	239	142	22	117	58	47	13	20	13	40
R45-20B2	45	20	7.938	2.6x2	175	9550	27690	91	80	343	142	22	117	55	47	13	20	13	40
R45-25B1	45	25	7.938	2.6x1	89.5	5220	13770	93	81	257	142	22	117	55	48	13	20	13	40
R50-8B2	50	8	4.763	2.6x2	170.2	5070	18980	83	80	173	128	18	107	55	41	11	17.5	11	30
R50-8B3	50	8	4.763	2.6x3	250.9	7180	28470	83	80	221	128	18	107	55	41	11	17.5	11	30
R50-12B1	50	12	4.763	2.6x1	90.6	2780	9470	85	82	139	128	18	107	57	43	11	17.5	11	30
R50-10B2	50	10	6.35	2.6x2	181.7	7550	25240	90	85	201	135	18	114	57	47	11	17.5	11	30
R50-20B2	50	20	6.35	2.6x2	187	7490	25100	90	83	329	135	18	114	55	46	11	17.5	11	30
R50-25B2	50	25	7.144	2.6x2	188.1	8670	27680	95	90	399	140	18	118	64	47	11	17.5	11	30
R50-12B1	50	12	7.938	2.6x1	90.6	5590	15580	96	90	167	150	22	125	62	50	13	20	13	40
R50-12B2	50	12	7.938	2.6x2	188.6	10150	31170	96	90	239	150	22	125	62	50	13	20	13	40
R50-16A2	50	16	7.938	1.6x2	120.1	6670	19140	96	89	217	150	22	125	61	50	13	20	13	40
R50-16B2	50	16	7.938	2.6x2	191.1	10120	31100	97	88	304	150	22	125	61	50	13	20	13	40
R50-16C2	50	16	7.938	3.6x2	260.7	13390	43070	96	89	368	150	22	125	61	50	13	20	13	40
R50-20A2	50	20	7.938	1.6x2	120.8	6640	19090	98	91	262	150	22	125	63	50	13	20	13	40
R50-20B2	50	20	7.938	2.6x2	187	10090	31020	97	89	333	150	22	125	62	50	13	20	13	40
R50-20C1	50	20	7.938	3.6x1	135.2	7350	21470	98	91	258	150	22	125	63	50	13	20	13	40
R50-25B2	50	25	7.938	2.6x2	188.1	10030	30890	99	88	376	150	22	125	60	49	13	20	13	40
R50-20B2	50	20	9.525	2.6x2	187	13500	37530	99	93	345	152	28	128	67	51	13	20	13	60

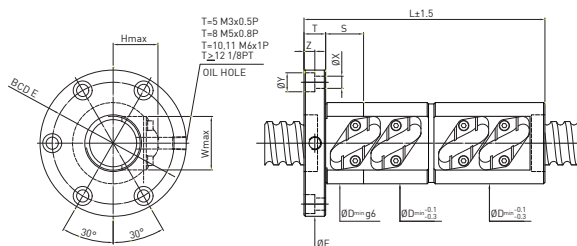
Note: Rigidity with preload: The axial load is calculated by 10% of dynamic load.

F D T TYPE

◀ Standard Product



Re-circulation plate below the nut body



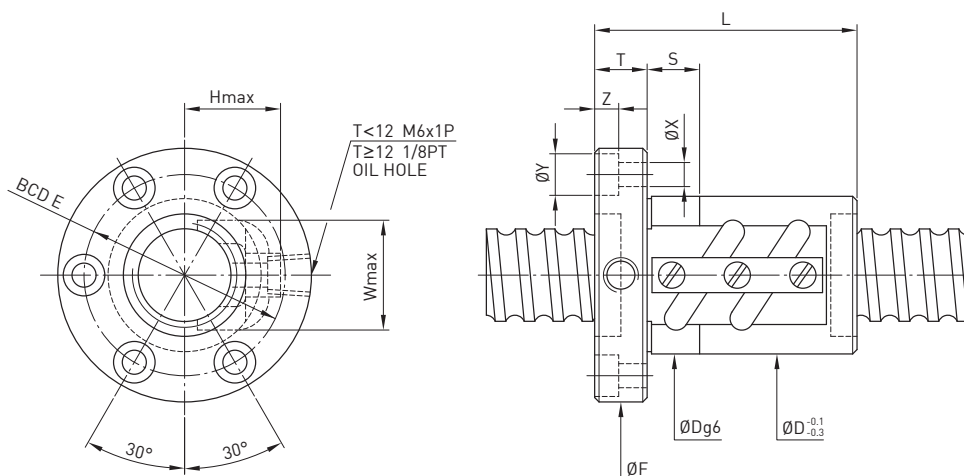
Re-circulation plate above the nut body

Model	Size		Ball Dia.	Circuits	Rigidity K (kgf/μm)	Dynamic Load C(kgf)	Static Load Co(kgf)	Nut			Flange			Return Tube		Bolt			Fit
	Nominal Dia.	Lead						D	D _{min}	L	F	T	BCD-E	W	H	X	Y	Z	
R55-10B2	55	10	6.35	2.6x2	191.7	7790	27390	95	92	200	144	18	122	62	48	11	17.5	11	40
R55-20B2	55	20	7.144	2.6x2	208.2	9330	31780	96	93	333	144	18	122	64	49	11	17.5	11	40
R55-24A1	55	24	7.144	1.6x1	67.8	3370	9750	99	93	198	144	18	122	64	50	11	17.5	11	40
R55-24A2	55	24	7.144	1.6x2	131.5	6120	19500	99	93	294	144	18	122	64	50	11	17.5	11	40
R55-24B2	55	24	7.144	2.6x2	209	9290	31690	99	93	389	144	18	122	64	50	11	17.5	11	40
R60-24A2	60	24	9.525	1.6x2	143.3	9285	27490	113	104	304	170	22	145	71	58	13	20	13	40
R60-32C1	60	32	9.525	3.6x1	162.9	10731	30750	114	105	382	170	22	145	72	57	13	20	13	40
R63-8B2	63	8	4.763	2.6x2	202.2	5610	24340	102	98	201	146	18	124	66	49	11	17.5	11	40
R63-10B2	63	10	6.35	2.6x2	212.2	8270	31630	107	103	214	152	20	130	71	52	11	17.5	11	40
R63-10B3	63	10	6.35	2.6x3	312.9	11720	47440	107	103	274	152	20	130	71	52	11	17.5	11	40
R63-12B2	63	12	7.938	2.6x2	222.5	11270	39470	110	106	252	166	22	141	71	57	13	20	13	40
R63-32B1	63	32	7.938	2.6x1	118.7	6120	19530	113	107	313	166	22	141	76	55	13	20	13	40
R63-16B2	63	16	9.525	2.6x2	236.3	14861	47240	122	114	307	172	22	147	82	60	13	20	13	40
R63-20B2	63	20	9.525	2.6x2	238.1	14861	47160	118	111	366	172	22	147	77	60	13	20	13	40
R63-25B2	63	25	9.525	2.6x2	239.5	14861	47040	118	110	410	172	22	147	76	59	13	20	13	40
R63-32A2	63	32	9.525	1.6x2	149.9	9629	28810	115	107	382	172	22	147	73	58	13	20	13	40
R70-32B1	70	32	7.938	2.6x1	130.6	6470	22020	125	119	318	178	22	152	85	62	13	20	13	40
R80-16B2	80	16	9.525	2.6x2	284.2	16483	61530	142	136	310	210	28	174	97	68	18	26	17.5	50
R80-16B3	80	16	9.525	2.6x3	419	23361	92300	142	136	406	210	28	174	97	68	18	26	17.5	50
R80-24B2	80	24	9.525	2.6x2	289.5	16483	61380	134	130	411	210	28	174	86	67	18	26	17.5	50
R80-32B2	80	32	9.525	2.6x2	293.2	16483	61180	142	137	516	210	28	174	98	68	18	26	17.5	50

Note: Rigidity with preload: The axial load is calculated by 10% of dynamic load.

F S V TYPE

◀ Standard Product

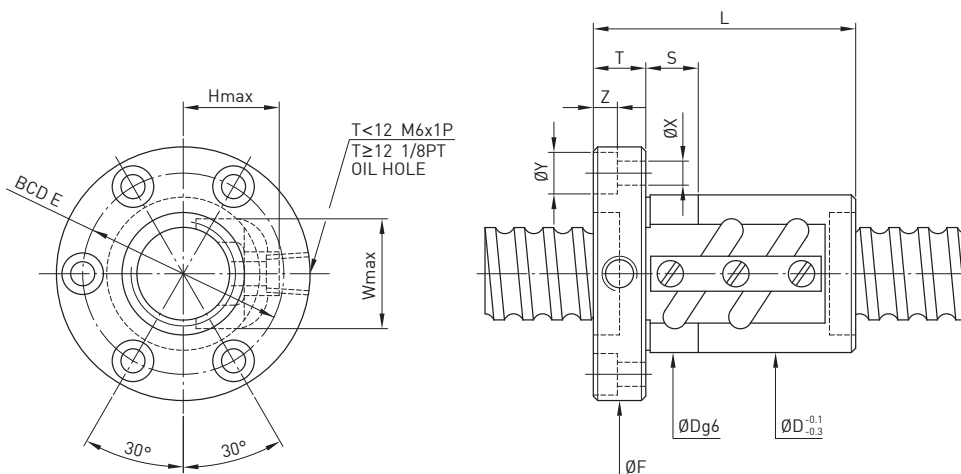


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μm K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut		Flange			Return Tube		Bolt			Fit	
	Nominal Dia.	Lead								D	L	F	T	BCD-E	W	H	X	Y	Z	S	
16-4B2	16	4	2.381	16.25	13.792	2.5x2	26	802	1722	30	48	52	10	40	23	21	5.5	9.5	5.5	12	
16-5B1		5	3.175	16.6	13.324	2.5x1	16	763	1400	31	45	54	12	41	27	22	5.5	9.5	5.5	12	
16-5B2				16.6	13.324	2.5x2	33	1385	2799	31	60	54	12	41	27	22	5.5	9.5	5.5	12	
16-5C1				16.6	13.324	3.5x1	22	1013	1946	31	50	54	12	41	27	22	5.5	9.5	5.5	12	
16-10B1		10		16.6	13.324	2.5x1	16	763	1399	30	54	53	10	41	22.5	23	5.5	9.5	5.5	12	
20-5B1	20	5	3.969	20.6	17.324	2.5x1	19	837	1733	35	45	58	12	46	27	25	5.5	9.5	5.5	12	
20-5B2				20.6	17.324	2.5x2	39	1519	3465	35	60	58	12	46	27	25	5.5	9.5	5.5	12	
20-6B1		6	3.969	20.8	16.744	2.5x1	20	1139	2187	36	48	60	12	47	28	27	5.5	9.5	5.5	12	
20-6C1				20.8	16.744	3.5x1	28	1512	3041	36	66	60	12	47	28	27	5.5	9.5	5.5	12	
20-20A1		20		20.8	16.744	1.5x1	13	719	1281	36	66	60	12	47	28	27	5.5	9.5	5.5	12	
25-5B2	25	5	3.175	25.6	22.324	2.5x2	46	1704	4417	40	60	64	12	52	31	26	5.5	9.5	5.5	12	
25-5C1		6	3.969	25.6	22.324	3.5x1	35	1252	3085	40	50	64	12	52	31	26	5.5	9.5	5.5	12	
25-6B2				25.8	21.744	2.5x2	48	2308	5523	42	68	68	12	55	32	28	6.6	11	6.5	12	
25-6C1		25.8	21.744	3.5x1	35	1690	3844	42	55	68	12	55	32	28	6.6	11	6.5	12			
25-8B2		8	4.763	26	21.132	2.5x2	46	2888	6472	50	80	74	13	62	35	31	5.5	9.5	5.5	15	
25-10B1				26	21.132	2.5x1	25	1592	3237	45	65	72	16	58	34	29	6.6	11	6.5	12	
25-10B2		10		26	21.132	2.5x2	46	2888	6472	47	97	74	15	60	35	31	6.6	11	6.5	15	
25-16B1		16		26	21.132	2.5x1	28	1592	3237	45	84	72	16	58	34	29	6.6	11	6.5	12	
25-20B1		20		26	21.132	2.5x1	28	1592	3237	45	96	72	16	58	34	29	6.6	11	6.5	12	
25-25A1		25		26	21.132	1.5x1	16	1019	1927	45	90	72	16	58	34	29	6.6	11	6.5	12	
28-5B1	28	5	3.175	28.6	25.324	2.5x1	26	984	2466	44	45	70	12	56	34	28	6.6	11	6.5	12	
28-5B2				28.6	25.324	2.5x2	50	1785	4932	44	60	70	12	56	34	28	6.6	11	6.5	12	
28-6A2		6	3.175	28.6	25.324	1.5x2	29	1150	2960	44	55	70	12	56	34	28	6.6	11	6.5	12	
28-6B2				28.6	25.324	2.5x2	48	1784	4932	50	61	74	12	60	36	29	6.6	11	6.5	15	
32-5B2	32	5	3.969	32.6	29.324	2.5x2	55	1886	5666	50	60	76	12	63	38	30	6.6	11	6.5	12	
32-5C1				32.6	29.324	3.5x1	39	1388	3967	50	50	76	12	63	38	30	6.6	11	6.5	12	
32-6B2		6	3.969	32.8	28.744	2.5x2	56	2556	7020	52	68	78	12	65	39	32	6.6	11	6.5	12	
32-6C1				32.8	28.744	3.5x1	39	1888	4936	52	55	78	12	65	39	32	6.6	11	6.5	12	
32-8B2		8	4.763	33	28.132	2.5x2	59	3284	8453	54	86	88	16	70	40	33	9	14	8.5	15	
32-8C1				33	28.132	3.5x1	41	2428	5948	54	70	88	16	70	40	33	9	14	8.5	15	
32-10B1		10	6.350	33.4	26.91	2.5x1	30	2650	5599	54	70	88	16	70	44	37	9	14	8.5	15	
32-10B2				33.4	26.91	2.5x2	60	4810	11199	57	98	91	16	73	44	37	9	14	8.5	15	
32-10C1				33.4	26.91	3.5x1	44	3519	7785	57	78	91	16	73	44	37	9	14	8.5	15	
32-16B1		16		33.4	26.91	2.5x1	30	2650	5599	54	100	88	16	70	45	38	9	14	8.5	15	
32-20B1		20		33	28.132	2.5x1	33	1810	4227	54	100	88	16	70	40	33	9	14	8.5	15	
32-25B1		25		33	28.132	2.5x1	33	1810	4227	54	118	88	16	70	40	33	9	14	8.5	15	
32-32A1		32		33	28.132	1.5x1	18	1154	2505	54	110	88	16	70	40	33	9	14	8.5	15	
36-6B1	36	6	3.969	36.8	32.744	2.5x1	35	1486	3969	55	50	82	12	68	42	32	6.6	11	6.5	12	
36-6B2				36.8	32.744	2.5x2	60	2696	7937	55	68	82	12	68	42	32	6.6	11	6.5	12	

Remark: Stiffness values listed above value are derived from theoretical formula while axial load is 30% of dynamic load rating without preload.

F S V TYPE

Standard Product

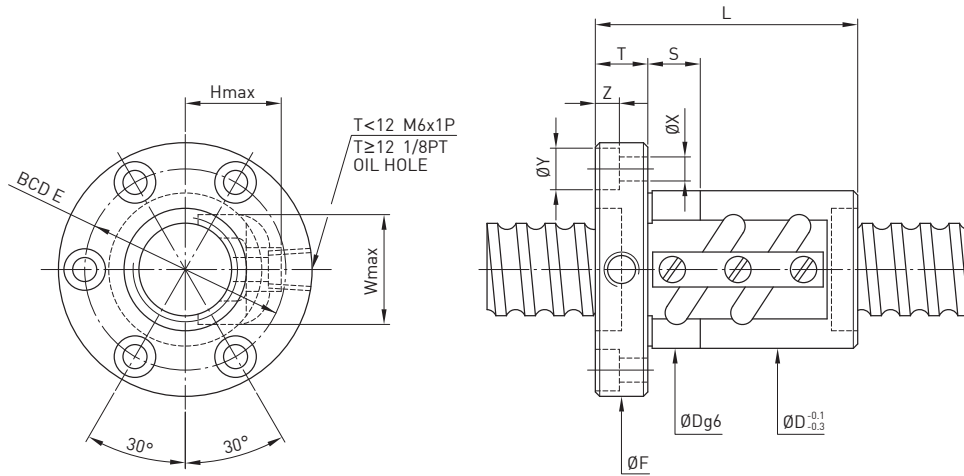


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μm K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut		Flange			Return Tube		Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	W	H	X	Y	Z	
36-10B2	36	10	6.350	37.4	30.91	2.5x2	68	5105	12669	62	102	104	18	82	49	40	11	17.5	11	15
40-5B2		5	3.175	40.6	37.324	2.5x2	66	2071	7134	58	65	92	16	72	46	34	9	14	8.5	15
40-6B2		6	3.969	40.8	36.744	2.5x2	69	2817	8855	60	72	94	16	76	47	36	9	14	8.5	15
40-8B2		8	4.763	41	36.132	2.5x2	70	3634	10603	62	86	96	16	78	48	38	9	14	8.5	15
40-8C1	41			36.132	3.5x1	49	2679	7438	62	70	96	16	78	48	38	9	14	8.5	15	
40-10B2	40	10	6.350	41.4	34.91	2.5x2	74	5370	14138	65	102	106	18	85	52	42	11	17.5	11	15
40-10C1				41.4	34.91	3.5x1	51	3932	9841	65	82	106	18	85	52	42	11	17.5	11	15
40-12B2		12	7.144	41.6	34.299	2.5x2	72	6216	15674	64	108	112	18	88	53	42	11	17.5	11	30
40-16B2		16		41.6	34.299	2.5x2	72	6216	15674	74	135	110	18	90	52	49	11	17.5	11	30
40-25B1		25		41.4	34.91	2.5x1	39	2959	7069	65	123	106	18	85	52	42	11	17.5	11	15
40-32B1		32		41.4	34.91	2.5x1	39	2959	7069	65	146	106	18	85	52	42	11	17.5	11	15
40-40A1	40	6.350	41.4	34.91	1.5x1	24	1875	4159	65	133	106	18	85	52	42	11	17.5	11	15	
45-10B1	45	10	6.350	46.4	39.91	2.5x1	45	4170	11161	70	74	112	18	90	58	48	11	17.5	11	15
45-10B2				46.4	39.91	2.5x2	79	5655	15905	70	104	112	18	90	58	48	11	17.5	11	15
45-12B2		12	7.938	46.8	38.688	2.5x2	81	7627	19799	74	123	122	22	97	60	49	13	20	13	20
50-5A2		5	3.175	50.6	47.324	1.5x2	48	1447	5382	70	63	104	16	86	56	40	9	14	8.5	15
50-5A3	50.6			47.324	1.5x3	73	2051	8072	70	73	104	16	86	56	40	9	14	8.5	15	
50-6B2	6	3.969	50.8	46.744	2.5x2	81	3093	11149	72	75	106	16	88	57	43	9	14	8.5	15	
50-6B3			50.8	46.744	2.5x3	119	4384	16723	72	93	106	16	88	57	43	9	14	8.5	15	
50-8B2	8	4.763	51	46.132	2.5x2	84	4004	13409	75	88	116	18	95	58	45	11	17.5	11	15	
50-8B3			51	46.132	2.5x3	124	5674	20114	75	112	116	18	95	58	45	11	17.5	11	15	
50-10B2	50	10	6.350	51.4	44.91	2.5x2	87	5923	17670	78	104	119	18	98	62	48	11	17.5	11	15
50-10B3				51.4	44.91	2.5x3	129	8394	26505	78	134	119	18	98	62	48	11	17.5	11	15
50-10C1		12	7.938	51.4	44.91	3.5x1	60	4393	12481	78	84	119	18	98	62	48	11	17.5	11	15
50-12B1				51.8	43.688	2.5x1	46	4420	11047	82	87	130	22	105	64	52	13	20	13	20
50-12B2		12	7.938	51.8	43.688	2.5x2	90	8022	22094	82	123	130	22	105	64	52	13	20	13	20
50-12C1				51.8	43.688	3.5x1	63	5875	15380	82	99	130	22	105	64	52	13	20	13	20
50-40A1		40	9.525	51.8	43.688	1.5x1	27	2801	6499	82	135	130	22	105	64	52	13	20	13	20
50-50A1		50		51.8	43.688	1.5x1	30	2801	6499	82	162	130	22	105	64	52	13	20	13	20
55-10C1	55	10	6.350	56.4	49.91	3.5x1	66	4562	13661	84	84	125	18	103	68	54	11	17.5	11	20
55-12B2		12	7.938	56.8	48.688	2.5x2	95	8392	24390	88	123	136	22	110	70	56	13	20	13	20
55-20B2		20	12.700	58	45.16	2.5x2	127	20160	52439	100	175	132	28	115	74	71	9	14	8.5	30
63-8A2	63	8	4.763	64	59.132	1.5x2	54	2826	10129	87	76	129	18	107	70	50	11	17.5	11	20
63-8A3				64	59.132	1.5x3	80	4004	15193	87	92	129	18	107	70	50	11	17.5	11	20
63-10B2		10	6.350	64.4	57.91	2.5x2	104	6533	22371	90	107	132	20	110	74	53	11	17.5	11	20
63-10B3				64.4	57.91	2.5x3	154	9258	33556	90	137	132	20	110	74	53	11	17.5	11	20
63-12B2		12	7.938	64.8	56.688	2.5x2	109	8943	28062	94	124	142	22	117	76	57	13	20	13	20
63-16B2		16	9.525	65.2	55.466	2.5x2	141	14862	46009	100	153	150	22	123	78	62	13	20	13	20
63-20B2	20	65.2		55.466	2.5x2	141	14862	46009	100	176	150	22	123	78	62	13	20	13	20	

Remark: Stiffness values listed above value are derived from theoretical formula while axial load is 30% of dynamic load rating without preload.

F S V TYPE

◀ Standard Product

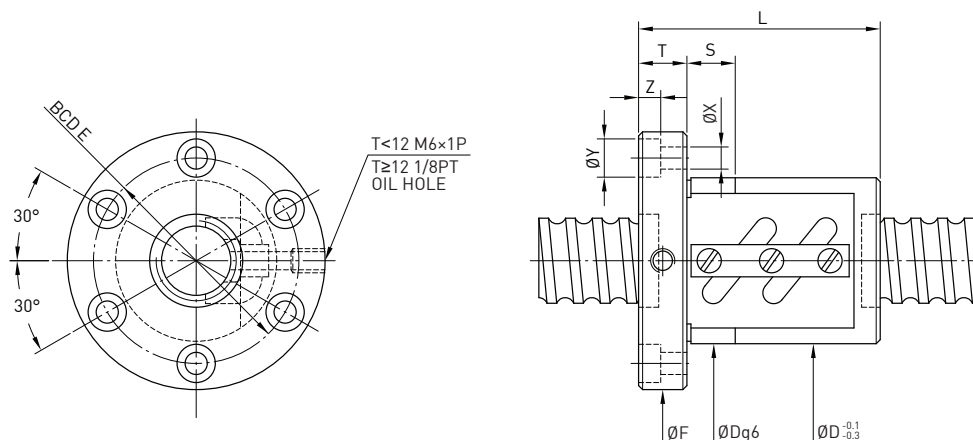


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μ m K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut		Flange			Return Tube		Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	W	H	X	Y	Z	
63-20B3	63	20	12.700	66	53.16	2.5x3	210	30715	90887	117	244	157	32	137	82	70	11	17.5	11	30
70-10B2	70	10	6.350	71.4	64.91	2.5x2	115	6843	25011	104	109	152	20	128	80	56	13	20	13	20
70-10B3		10	6.350	71.4	64.91	2.5x3	170	9688	37516	104	139	152	20	128	80	56	13	20	13	20
70-12B2		12	7.938	71.8	63.688	2.5x2	120	9382	31275	110	125	159	22	133	82	58	13	20	13	20
70-12B3		12	7.938	71.8	63.688	2.5x3	170	13296	46912	110	159	159	22	133	82	58	13	20	13	20
80-10B2	80	10	6.350	81.4	74.91	2.5x2	126	7202	28538	115	109	163	22	137	90	64	13	20	13	20
80-10B3		10	6.350	81.4	74.91	2.5x3	186	10207	42807	115	139	163	22	137	90	64	13	20	13	20
80-12B2		12	7.938	81.8	73.688	2.5x2	130	9797	35422	120	125	169	22	143	92	67	13	20	13	25
80-12B3		12	7.938	81.8	73.688	2.5x3	192	13884	53132	120	159	169	22	143	92	67	13	20	13	25
80-16B2		16	9.525	82.2	72.466	2.5x2	171	16485	58851	125	156	190	28	154	94	70	18	26	17.5	25
80-16B3		16	9.525	82.2	72.466	2.5x3	252	23363	88276	125	204	190	28	154	94	70	18	26	17.5	25
80-20B2		20	9.525	82.2	72.466	2.5x2	171	16485	58851	125	185	190	28	154	94	70	18	26	17.5	25
80-20B3		20	9.525	82.2	72.466	2.5x3	252	23363	88276	125	245	190	28	154	94	70	18	26	17.5	25
100-12B2	100	12	7.938	101.8	93.688	2.5x2	156	10761	44586	145	132	209	28	173	112	76	18	26	17.5	25
100-12B3		12	7.938	101.8	93.688	2.5x3	229	15251	66894	145	168	209	28	173	112	76	18	26	17.5	25
100-16B2		16	9.525	102.2	92.466	2.5x2	200	18123	74425	150	162	228	32	185	114	80	22	32	21.5	30
100-16B3		16	9.525	102.2	92.466	2.5x3	305	25684	111637	150	212	228	32	185	114	80	22	32	21.5	30
100-20B2		20	9.525	102.2	92.466	2.5x2	200	18123	74425	150	190	228	32	185	114	80	22	32	21.5	30
100-20B3		20	9.525	102.2	92.466	2.5x3	305	25684	111637	150	250	228	32	185	114	80	22	32	21.5	30

Remark: Stiffness values listed above value are derived from theoretical formula while axial load is 30% of dynamic load rating without preload.

F S W TYPE

◀ Standard Product

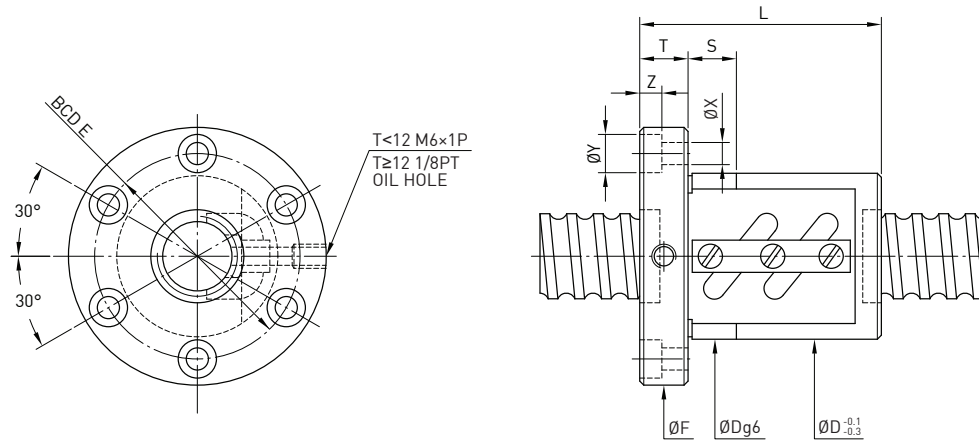


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μ m K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut		Flange			Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z	S
12-4B1	12	4	2.381	12.25	9.792	2.5x1	8	383	638	30	38	50	10	40	4.5	8	4	12
12-4C1				12.25	9.792	3.5x1	9	511	893	30	44	50	10	40	4.5	8	4	12
12-5B1		5		12.25	9.792	2.5x1	8	383	638	30	40	50	10	40	4.5	8	4	12
14-5B1	14			14.6	11.324	2.5x1	10	710	1216	34	40	57	11	45	5.5	9.5	5.5	12
15-10A1	15	10	3.175	15.6	12.324	1.5x1	9	474	781	34	48	57	11	45	5.5	9.5	5.5	12
15-20A1		20		15.6	12.324	1.5x1	9	474	781	34	62	58	12	45	5.5	9.5	5.5	12
16-4B1	16	4	2.381	16.25	13.792	2.5x1	14	439	870	34	38	57	11	45	5.5	9.5	5.5	12
16-5B1				16.6	13.324	2.5x1	16	763	1400	40	45	64	12	51	5.5	9.5	5.5	12
16-5B2				16.6	13.324	2.5x2	33	1385	2799	40	60	64	12	51	5.5	9.5	5.5	12
16-5C1		5		16.6	13.324	3.5x1	22	1013	1946	40	50	64	12	51	5.5	9.5	5.5	12
20-5B1	20		3.175	20.6	17.324	2.5x1	19	837	1733	44	45	68	12	55	5.5	9.5	5.5	12
20-5B2				20.6	17.324	2.5x2	39	1519	3465	44	60	68	12	55	5.5	9.5	5.5	12
20-6B1				20.8	16.744	2.5x1	20	1137	2187	48	48	72	12	59	5.5	9.5	5.5	12
20-6C1		6		20.8	16.744	3.5x1	28	1512	3041	48	66	72	12	59	5.5	9.5	5.5	12
25-4B2	25	4	2.381	25.25	22.792	2.5x2	38	976	2776	46	48	69	11	57	5.5	9.5	5.5	12
25-5B2				25.6	22.324	2.5x2	46	1704	4417	50	60	74	12	62	5.5	9.5	5.5	12
25-5C1		5		25.6	22.324	3.5x1	35	1252	3085	50	50	74	12	62	5.5	9.5	5.5	12
25-6B1				25.8	21.744	2.5x1	24	1255	2735	53	44	76	11	64	5.5	9.5	5.5	12
25-6B2	25		3.969	25.8	21.744	2.5x2	48	2308	5523	56	68	82	12	69	6.6	11	6.5	12
25-6C1				25.8	21.744	3.5x1	35	1690	3844	56	55	82	12	69	6.6	11	6.5	12
25-10B1				26	21.132	2.5x1	25	1592	3237	60	65	86	16	73	6.6	11	6.5	12
25-10B2		10		26	21.132	2.5x2	46	2888	6472	58	97	85	15	71	6.6	11	6.5	12
25-12B1		12	3.969	25.8	21.744	2.5x1	24	1271	2761	53	60	78	11	64	6.6	11	6.5	12
28-5B1	28	5	3.175	28.6	25.324	2.5x1	26	984	2466	55	45	85	12	69	6.6	11	6.5	12
28-5B2				28.6	25.324	2.5x2	50	1785	4932	55	60	85	12	69	6.6	11	6.5	12
28-6A2		6		28.6	25.324	1.5x2	29	1150	2960	55	55	85	12	69	6.6	11	6.5	12
28-12B2		12		29	24.132	2.5x2	51	3060	7299	60	110	86	12	73	6.6	11	6.5	12
28-16B1		16	4.763	29	24.132	2.5x1	25	1686	3649	62	84	89	12	75	6.6	11	6.5	12
32-5B2	32	5	3.175	32.6	29.324	2.5x2	55	1886	5666	58	60	84	12	71	6.6	11	6.5	12
32-5C1				32.6	29.324	3.5x1	39	1388	3967	58	50	84	12	71	6.6	11	6.5	12
32-6B2				32.8	28.744	2.5x2	56	2556	7020	62	68	88	12	75	6.6	11	6.5	12
32-6C1		6		32.8	28.744	3.5x1	39	1888	4936	62	55	88	12	75	6.6	11	6.5	12
32-8B2	32		4.763	33	28.132	2.5x2	59	3284	8453	66	86	100	16	82	9	14	8.5	15
32-8C1				33	28.132	3.5x1	41	2428	5948	66	70	100	16	82	9	14	8.5	15
32-10B2				33.4	26.91	2.5x2	60	4810	11199	74	98	108	16	90	9	14	8.5	15
32-10C1		10		33.4	26.91	3.5x1	44	3519	7785	74	78	108	16	90	9	14	8.5	15
32-12A2	32		6.350	33.4	26.91	1.5x2	37	3051	6612	74	97	108	18	90	9	14	8.5	15
32-12B2		12		33.4	26.91	2.5x2	59	4810	11199	74	110	108	18	90	9	14	8.5	15

Remark: Stiffness values listed above value are derived from theoretical formula while axial load is 30% of dynamic load rating without preload.

F S W TYPE

◀ Standard Product

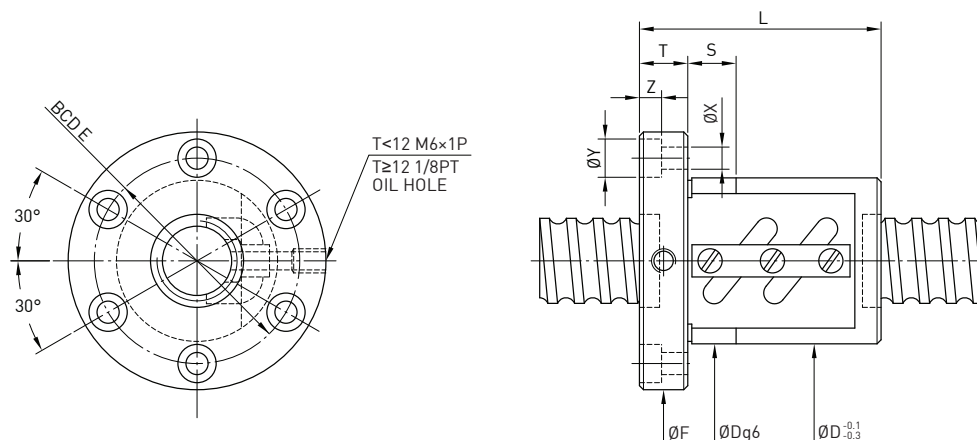


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μm K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut		Flange			Bolt			Fit	
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z	S	
32-16A2	32	16	6.350	33.4	26.91	1.5x2	36	3035	6555	74	99	108	16	90	9	14	8.5	15	
32-16B1				33.4	26.91	2.5x1	30	2650	5599	74	94	108	16	90	9	14	8.5	15	
32-16B2		20		33.4	26.91	2.5x2	59	4810	11199	74	130	108	16	90	9	14	8.5	15	
32-20A2				33.4	26.91	1.5x2	37	3035	6555	74	120	108	16	90	9	14	8.5	15	
32-20B1	36	6	3.969	33.4	26.91	2.5x1	30	2650	5599	74	98	108	16	90	9	14	8.5	15	
36-6B1				36.8	32.744	2.5x1	35	1486	3969	65	50	100	12	82	6.6	11	6.5	12	
36-6B2		10		6.350	36.8	32.744	2.5x2	60	2696	7937	65	68	100	12	82	6.6	11	6.5	12
36-10B2					37.4	30.91	2.5x2	68	5105	12669	75	102	125	18	98	11	17.5	11	15
36-12B2	12	37.4	30.91		2.5x2	65	5105	12668	75	110	125	18	98	11	17.5	11	15		
36-16C1	16	37.4	30.91		3.5x1	46	3736	8813	80	105	120	18	100	11	17.5	11	15		
40-5B2	40	5	3.175	40.6	37.324	2.5x2	66	2071	7134	68	65	102	16	84	9	14	8.5	15	
40-6B2		6	3.969	40.8	36.744	2.5x2	69	2817	8855	70	72	104	16	86	9	14	8.5	15	
40-8B2		8	4.763	41	36.132	2.5x2	70	3634	10603	74	86	108	16	90	9	14	8.5	15	
40-8C1				41	36.132	3.5x1	49	2679	7438	74	70	108	16	90	9	14	8.5	15	
40-10B2	40	10	6.350	41.4	34.91	2.5x2	74	5370	14138	84	102	125	18	104	11	17.5	11	15	
40-10C1				41.4	34.91	3.5x1	51	3932	9841	84	82	125	18	104	11	17.5	11	15	
40-12B1		12	7.144	41.6	34.299	2.5x1	36	3425	7837	86	81	128	18	106	11	17.5	11	20	
40-12B2				41.6	34.299	2.5x2	72	6217	15674	86	117	128	18	106	11	17.5	11	20	
40-16A2	16	41.6		34.299	1.5x2	42	4007	9405	86	118	128	18	106	11	17.5	11	20		
40-16B1		41.6		34.299	2.5x1	37	3425	7837	86	102	128	18	106	11	17.5	11	20		
45-10B1	45	10	6.350	46.4	39.91	2.5x1	45	3116	7953	88	74	132	18	110	11	17.5	11	15	
45-10B2				46.4	39.91	2.5x2	79	5655	15905	88	104	132	18	110	11	17.5	11	15	
45-12B2		12		7.938	46.8	38.688	2.5x2	81	7627	19799	96	123	142	22	117	13	20	13	20
50-5A2		50		5	3.175	50.6	47.324	1.5x2	48	1447	5382	80	63	114	16	96	9	14	8.5
50-5A3	50.6		47.324			1.5x3	73	2051	8072	80	73	114	16	96	9	14	8.5	15	
50-6B2	6		3.969	50.8	46.744	2.5x2	81	3093	11149	84	75	118	16	100	9	14	8.5	15	
50-6C2				50.8	46.744	3.5x2	109	4131	15608	84	80	118	15	100	9	14	8.5	15	
50-6B3	50	8	4.763	50.8	46.744	2.5x3	119	4384	16723	84	93	118	16	100	9	14	8.5	15	
50-8B2				51	46.132	2.5x2	84	4004	13409	87	88	128	18	107	11	17.5	11	15	
50-8B3		10	6.350	51	46.132	2.5x3	124	5674	20114	87	112	128	18	107	11	17.5	11	15	
50-10B2				51.4	44.91	2.5x2	87	5923	17670	94	104	135	18	114	11	17.5	11	15	
50-10B3	12			51.4	44.91	2.5x3	129	8394	26505	94	134	135	18	114	11	17.5	11	15	
50-10C1				51.4	44.91	3.5x1	60	4393	12481	94	84	135	18	114	11	17.5	11	15	
50-12B1	50	12	7.938	51.8	43.688	2.5x1	46	4420	11047	102	87	150	22	125	13	20	13	20	
50-12B2				51.8	43.688	2.5x2	90	8022	22094	102	123	150	22	125	13	20	13	20	
50-12C1		30		51.8	43.688	3.5x1	63	5875	15380	102	99	150	22	125	13	20	13	20	
50-30A2				51.4	44.91	1.5x2	52	3834	10658	94	160	135	18	114	11	17.5	11	15	

Remark : Stiffness values listed above value are derived from theoretical formula while axial load is 30% of dynamic load rating without preload.

F S W TYPE

◀ Standard Product

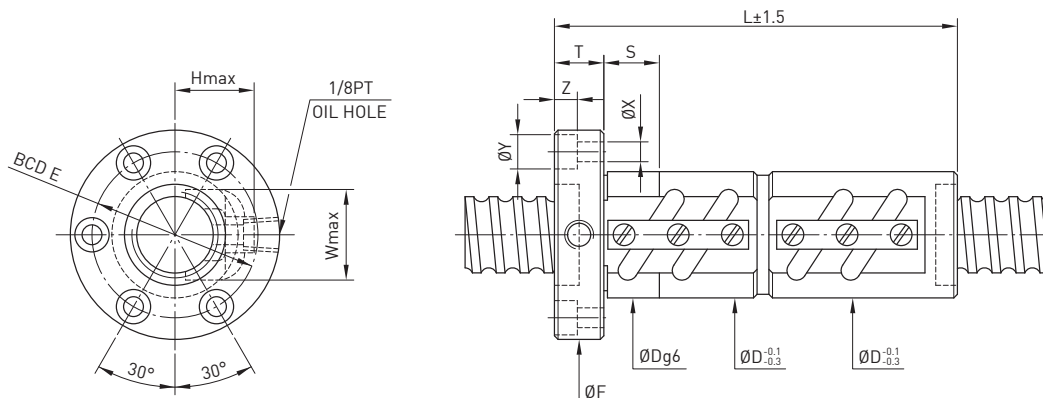


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μ m K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut		Flange			Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z	
55-10B2	55	10	6.350	56.4	49.91	2.5x2	93	6071	19592	102	103	144	18	122	11	17.5	11	20
55-10C1		12		56.8	48.688	2.5x2	95	8392	24390	105	123	154	22	127	13	20	13	20
55-12B2		12		61.8	53.688	2.5x2	101	8742	26685	112	135	154	18	132	11	17.5	11	20
60-12B2	60	12	7.938	64	59.132	1.5x2	54	2826	10129	104	76	146	18	124	11	17.5	11	20
63-8A2		8		64	59.132	1.5x3	80	4004	15193	104	92	146	18	124	11	17.5	11	20
63-8A3		10		64.4	57.91	2.5x2	104	6533	22371	110	107	152	20	130	11	17.5	11	20
63-10B2	63	10	6.350	64.4	57.91	2.5x2	104	6533	22371	110	107	152	20	130	11	17.5	11	20
63-10B3		12		64.4	57.91	2.5x3	154	9528	33556	110	137	152	20	130	11	17.5	11	20
63-12B2		12		64.8	56.688	2.5x2	109	8943	28062	118	124	166	22	141	13	20	13	20
63-16B2	63	16	9.525	65.2	55.466	2.5x2	141	14862	46009	124	153	172	22	147	13	20	13	20
63-20B2		20		65.2	55.466	2.5x2	141	14862	46009	124	176	172	22	147	13	20	13	20
70-10B2	70	10	6.350	71.4	64.91	2.5x2	115	6843	25011	124	109	170	20	145	13	20	13	20
70-10B3		12		71.4	64.91	2.5x3	170	9698	37516	124	139	170	20	145	13	20	13	20
70-12B2		12		71.8	63.688	2.5x2	120	9382	31275	130	125	178	22	152	13	20	13	20
70-12B3	70	12	7.938	71.8	63.688	2.5x3	170	13296	46912	130	159	178	22	152	13	20	13	20
80-10B2		10		81.4	74.91	2.5x2	126	7202	28538	130	109	178	22	152	13	20	13	20
80-10B3		12		81.4	74.91	2.5x3	186	10207	42807	130	139	178	22	152	13	20	13	20
80-12B2	80	12	7.938	81.8	73.688	2.5x2	130	9797	35422	136	125	185	22	159	13	20	13	20
80-12B3		16		81.8	73.688	2.5x3	192	13844	53132	136	159	185	22	159	13	20	13	20
80-16B2		16	9.525	82.2	72.466	2.5x2	171	16485	58851	145	156	210	28	174	18	26	17.5	25
80-16B3	80	20		82.2	72.466	2.5x3	252	23363	88276	145	204	210	28	174	18	26	17.5	25
80-20B2		20		82.2	72.466	2.5x2	171	16485	58851	145	185	210	28	174	18	26	17.5	25
80-20B3		20		82.2	72.466	2.5x3	252	23363	88276	145	245	210	28	174	18	26	17.5	25
100-12B2	100	12	7.938	101.8	93.688	2.5x2	156	10761	44596	160	132	224	24	188	18	26	17.5	25
100-12B3		16		101.8	93.688	2.5x3	229	15251	66894	160	168	224	24	188	18	26	17.5	25
100-16B2		16	9.525	102.2	92.466	2.5x2	200	18123	77425	170	162	248	32	205	22	32	21.5	30
100-16B3	100	20		102.2	92.466	2.5x3	305	25684	111637	170	212	248	32	205	22	32	21.5	30
100-20B2		20		102.2	92.466	2.5x2	200	18123	74425	170	190	248	32	205	22	32	21.5	30
100-20B3	100	20	9.525	102.2	92.466	2.5x3	305	25684	111637	170	250	248	32	205	22	32	21.5	30

Remark: Stiffness values listed above value are derived from theoretical formula while axial load is 30% of dynamic load rating without preload.

F D V TYPE

◀ Standard Product

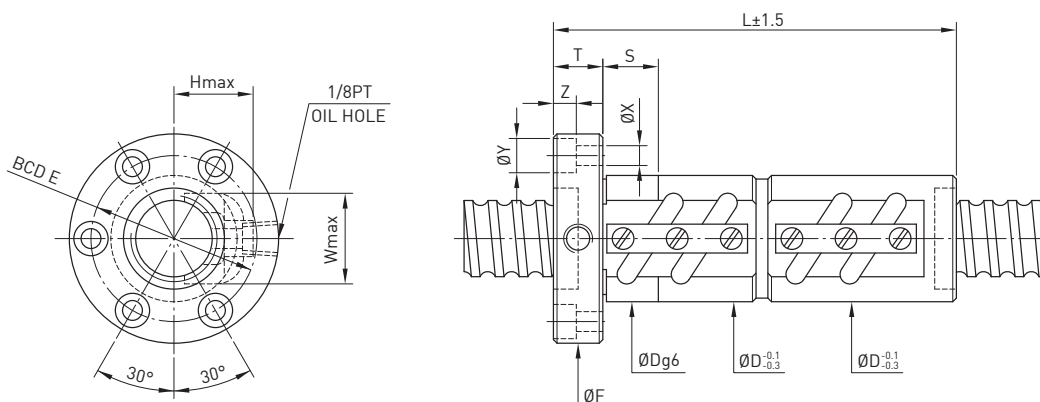


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μm K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut		Flange			Return Tube		Bolt			Fit		
	Nominal Dia.	Lead								D	L	F	T	BCD-E	W	H	X	Y	Z	S		
16-5B1	16	5	3.175	16.6	13.324	2.5x1	32	763	1400	31	80	54	12	41	24	22	5.5	9.5	5.5	24		
16-5B2				16.6	13.324	2.5x2	65	1385	2799	31	110	54	12	41	24	22	5.5	9.5	5.5	24		
16-5C1				16.6	13.324	3.5x1	46	1013	1946	31	90	54	12	41	24	22	5.5	9.5	5.5	24		
20-5B1	20	6	3.969	20.6	17.324	2.5x1	38	837	1733	35	80	58	12	46	27	25	5.5	9.5	5.5	24		
20-5B2				20.6	17.324	2.5x2	76	1519	3465	35	110	58	12	46	27	25	5.5	9.5	5.5	24		
20-6B1				20.8	16.744	2.5x1	40	1139	2187	36	92	60	12	47	28	27	5.5	9.5	5.5	24		
20-6C1	25	6	3.969	20.8	16.744	3.5x1	55	1512	3041	36	104	60	12	47	28	27	5.5	9.5	5.5	24		
25-5B1				5	3.175	25.6	22.324	2.5x1	46	939	2209	40	80	64	12	52	31	26	5.5	9.5	5.5	24
25-5B2						25.6	22.324	2.5x2	90	1704	4417	40	110	64	12	52	31	26	5.5	9.5	5.5	24
25-5C1		25.6	22.324			3.5x1	68	1252	3085	40	90	64	12	52	31	26	5.5	9.5	5.5	24		
25-6B2		6	3.969	25.8	21.744	2.5x2	94	2308	5523	42	128	68	12	55	32	28	6.6	11	6.5	24		
25-6C1				25.8	21.744	3.5x1	66	1690	3844	42	104	68	12	55	32	28	6.6	11	6.5	24		
25-10B1	10			4.763	26	21.132	2.5x1	48	1592	3237	45	122	72	16	58	34	29	6.6	11	6.5	24	
28-5B1	28	5	3.175	28.6	25.324	2.5x1	51	984	2466	44	80	70	12	56	34	28	6.6	11	6.5	24		
28-5B2				28.6	25.324	2.5x2	98	1785	4932	44	110	70	12	56	34	28	6.6	11	6.5	24		
28-6A2				28.6	25.324	1.5x2	59	1150	2960	44	110	70	12	56	34	28	6.6	11	6.5	24		
28-8A2		8	4.763	29	24.132	1.5x2	62	1960	4348	50	110	75	12	61	38	32	6.6	11	6.5	15		
28-10B2				29	24.132	2.5x2	102	3060	7299	54	177	94	15	74	37	32	9	14	8.5	30		
32-5B1	32	5	3.175	32.6	29.324	2.5x1	55	1039	2833	50	80	76	12	63	38	30	6.6	11	6.5	24		
32-5B2				32.6	29.324	2.5x2	109	1886	5666	50	110	76	12	63	38	30	6.6	11	6.5	24		
32-5C1				32.6	29.324	3.5x1	76	1388	3967	50	90	76	12	63	38	30	6.6	11	6.5	24		
32-6B1		6	3.969	32.8	28.744	2.5x1	57	1409	3510	52	92	78	12	65	39	32	6.6	11	6.5	24		
32-6B2				32.8	28.744	2.5x2	112	2556	7020	52	128	78	12	65	39	32	6.6	11	6.5	24		
32-6C1				32.8	28.744	3.5x1	78	1888	4936	52	104	78	12	65	39	32	6.6	11	6.5	24		
32-8B1		8	4.763	33	28.132	2.5x1	58	1810	4227	54	110	88	16	70	40	33	9	14	8.5	30		
32-8B2				33	28.132	2.5x2	115	3284	8453	54	158	88	16	70	40	33	9	14	8.5	30		
32-8C1				33	28.132	3.5x1	82	2428	5948	54	126	88	16	70	40	33	9	14	8.5	30		
32-10B1		10	6.350	33.4	26.91	2.5x1	58	2651	5600	57	122	91	16	73	44	37	9	14	8.5	30		
32-10B2				33.4	26.91	2.5x2	118	4810	11199	57	182	91	16	73	44	37	9	14	8.5	30		
32-10C1				33.4	26.91	3.5x1	86	3519	7785	57	142	91	16	73	44	37	9	14	8.5	30		
32-12A2	12	6.350	33.4	26.91	1.5x2	72	3035	6555	62	180	108	16	86	44	38	9	14	8.5	15			
32-12B1			33.4	26.91	2.5x1	62	2650	5599	62	138	108	16	86	44	38	9	14	8.5	20			
32-16A2	16	33.4	26.91	1.5x2	72	3035	6555	62	180	108	16	86	44	38	9	14	8.5	20				
36-6B1	36	6	3.969	36.8	32.744	2.5x1	62	1486	3969	55	92	82	12	68	42	32	6.6	11	6.5	24		
36-6B2				36.8	32.744	2.5x2	121	2696	7937	55	128	82	12	68	42	32	6.6	11	6.5	24		
36-10B2				10	6.350	37.4	30.91	2.5x2	132	5105	12669	62	184	104	18	82	49	40	11	17.5	11	30

Remark : Stiffness values listed above are derived from theoretical formula while preload is 10% of dynamic load rating.

F D V TYPE

◀ Standard Product

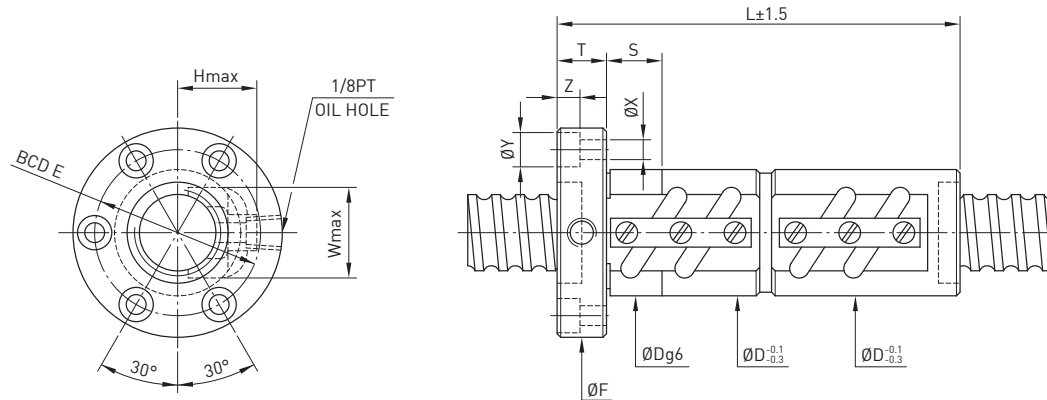


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf/μm K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut		Flange			Return Tube		Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	W	H	X	Y	Z	
40-5B1	40	5	3.175	40.6	37.324	2.5x1	65	1141	3567	58	84	92	16	72	46	34	9	14	8.5	30
40-5B2				40.6	37.324	2.5x2	132	2071	7134	58	114	92	16	72	46	34	9	14	8.5	30
40-6B2		6	3.969	40.8	36.744	2.5x2	136	2817	8855	60	132	94	16	76	47	36	9	14	8.5	30
40-8B1				41	36.132	2.5x1	69	2003	5302	62	110	96	16	78	48	38	9	14	8.5	30
40-8B2		8	4.763	41	36.132	2.5x2	137	3634	10603	62	158	96	16	78	48	38	9	14	8.5	30
40-8C1				41	36.132	3.5x1	96	2679	7438	62	126	96	16	78	48	38	9	14	8.5	30
40-10B1		10	6.350	41.4	34.91	2.5x1	72	2959	7069	65	132	106	18	85	52	42	11	17.5	11	30
40-10B2				41.4	34.91	2.5x2	145	5370	14138	65	192	106	18	85	52	42	11	17.5	11	30
40-10C1		12	6.350	41.4	34.91	3.5x1	102	3932	9841	65	152	106	18	85	52	42	11	17.5	11	30
40-12A2				41.4	34.91	1.5x2	88	3402	8316	65	160	106	18	84	52	42	11	17.5	11	20
40-12B1		12	7.144	41.6	34.299	2.5x1	70	3425	7837	70	153	112	18	90	55	43	11	17.5	11	40
40-12B2				41.6	34.299	2.5x2	141	6217	15674	70	225	112	18	90	55	43	11	17.5	11	40
40-12C1		16	7.144	41.6	34.299	3.5x1	103	3932	9841	65	158	106	18	85	52	42	11	17.5	11	30
40-16A2				41.6	34.299	1.5x2	88	4006	9404	75	209	117	18	95	53	43	11	17.5	11	40
40-16B1		20	7.144	41.6	34.299	2.5x1	118	3425	7837	75	153	117	18	95	53	43	11	17.5	11	40
40-20A1				41.4	34.91	1.5x1	44	1874	4158	65	152	106	18	85	52	42	11	17.5	11	30
45-10B1	45	10	6.350	46.4	39.91	2.5x1	76	3116	7953	70	134	112	18	90	58	48	11	17.5	11	30
45-10B2				46.4	39.91	2.5x2	156	5655	15905	70	194	112	18	90	58	48	11	17.5	11	30
45-12B2		12	7.938	46.8	38.688	2.5x2	162	7627	19799	74	230	122	22	97	60	49	13	20	13	40
50-5A2	50	5	3.175	50.6	47.324	1.5x2	96	1447	5382	70	107	104	16	86	56	40	9	14	8.5	30
50-5A3				50.6	47.324	1.5x3	143	2051	8072	70	127	104	16	86	56	40	9	14	8.5	30
50-5B2		6	3.969	50.6	47.324	2.5x2	153	2245	8969	70	116	104	16	86	56	40	9	14	8.5	30
50-6B2				50.8	46.744	2.5x2	161	3093	11149	72	134	106	16	88	57	43	9	14	8.5	30
50-6B3		8	4.763	50.8	46.744	2.5x3	235	4384	16723	72	170	106	16	88	57	43	9	14	8.5	30
50-8B1				51	46.132	2.5x1	81	2206	6705	75	112	116	18	95	58	45	11	17.5	11	30
50-8B2		10	6.350	51	46.132	2.5x2	165	4004	13409	75	160	116	18	95	58	45	11	17.5	11	30
50-8B3				51	46.132	2.5x3	244	5674	20114	75	208	116	18	95	58	45	11	17.5	11	30
50-10B2		12	7.938	51.4	44.91	2.5x2	173	5923	17670	78	194	119	18	98	62	48	11	17.5	11	30
50-10B3				51.4	44.91	2.5x3	255	8394	26505	78	254	119	18	98	62	48	11	17.5	11	30
50-10C1		12	7.938	51.4	44.91	3.5x1	120	4393	12481	78	154	119	18	98	62	48	11	17.5	11	30
50-12B2				51.8	43.688	2.5x2	178	8022	22094	82	232	130	22	105	64	52	13	20	13	40
50-12C1		12	7.938	51.8	43.688	3.5x1	123	5875	15380	82	184	130	22	105	64	52	13	20	13	40
55-10C1	55	10	6.350	56.4	49.91	3.5x1	132	4562	13661	84	154	125	18	103	68	54	11	17.5	11	40
55-12B2		12	7.938	56.8	48.688	2.5x2	185	8392	24390	88	232	136	22	110	70	56	13	20	13	40

Remark : Stiffness values listed above are derived from theoretical formula while preload is 10% of dynamic load rating.

F D V TYPE

◀ Standard Product

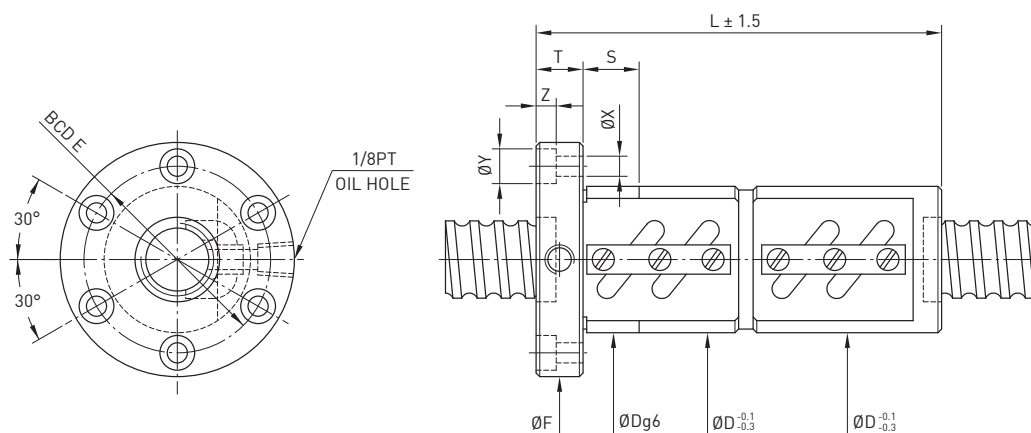


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μ m K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut		Flange				Return Tube		Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	W	H	X	Y	Z	S	
63-8A2	63	8	4.763	64	59.132	1.5x2	107	2826	10129	87	142	129	18	107	70	50	11	17.5	11	40	
63-8A3				64	59.132	1.5x3	154	4004	15193	87	171	129	18	107	70	50	11	17.5	11	40	
63-10B2		10	6.350	64.4	57.91	2.5x2	206	6533	22371	90	196	132	20	110	74	56	11	17.5	11	30	
63-10B3				64.4	57.91	2.5x3	305	9258	33556	90	256	132	20	110	74	56	11	17.5	11	30	
63-12B2		12	7.938	64.8	56.688	2.5x2	214	8943	28062	94	232	142	22	117	76	57	13	20	13	40	
63-16B2		16	9.525	65.2	55.466	2.5x2	280	14862	46009	100	296	150	22	123	78	62	13	20	13	40	
63-20B2		20		65.2	55.466	2.5x2	280	14862	46009	100	334	150	22	123	78	62	13	20	13	40	
70-10B2	70	10	6.350	71.4	64.91	2.5x2	228	6843	25011	104	196	152	20	128	80	56	13	20	13	40	
70-10B3				71.4	64.91	2.5x3	334	9698	37516	104	256	152	20	128	80	56	13	20	13	40	
70-12B2		12	7.938	71.8	63.688	2.5x2	236	9382	31275	110	232	159	22	133	82	58	13	20	13	40	
70-12B3				71.8	63.688	2.5x3	336	13296	46912	110	302	159	22	133	82	58	13	20	13	40	
80-10B2	80	10	6.350	81.4	74.91	2.5x2	251	7202	28538	115	200	163	22	137	90	64	13	20	13	40	
80-10B3				81.4	74.91	2.5x3	368	10207	42807	115	260	163	22	137	90	64	13	20	13	40	
80-12B2		12	7.938	81.8	73.688	2.5x2	257	9797	35422	120	232	169	22	143	92	67	13	20	13	40	
80-12B3				81.8	73.688	2.5x3	380	13884	53132	120	302	169	22	143	92	67	13	20	13	40	
80-16B2		16	9.525	82.2	72.466	2.5x2	340	16485	58851	125	302	190	28	154	94	70	18	26	17.5	50	
80-16B3				82.2	72.466	2.5x3	498	23363	88276	125	398	190	28	154	94	70	18	26	17.5	50	
80-20B2		20		82.2	72.466	2.5x2	338	16485	58851	125	345	190	28	154	94	70	18	26	17.5	50	
80-20B3				82.2	72.466	2.5x3	498	23363	88276	125	470	190	28	154	94	70	18	26	17.5	50	
100-12B2	100	12	7.938	101.8	93.688	2.5x2	301	10761	44596	145	240	209	28	173	112	76	18	26	17.5	50	
100-12B3				101.8	93.688	2.5x3	452	15251	66894	145	312	209	28	173	112	76	18	26	17.5	50	
100-16B2		16	9.525	102.2	92.466	2.5x2	400	18125	74425	150	308	228	32	185	114	80	22	32	21.5	60	
100-16B3				102.2	92.466	2.5x3	595	25684	111637	150	404	228	32	185	114	80	22	32	21.5	60	
100-20B2		20		102.2	92.466	2.5x2	400	18123	74425	150	350	228	32	185	114	80	22	32	21.5	60	
100-20B3				102.2	92.466	2.5x3	595	25684	111637	150	475	228	32	185	114	80	22	32	21.5	60	

Remark : Stiffness values listed above are derived from theoretical formula while preload is 10% of dynamic load rating.

F D W TYPE

◀ Standard Product

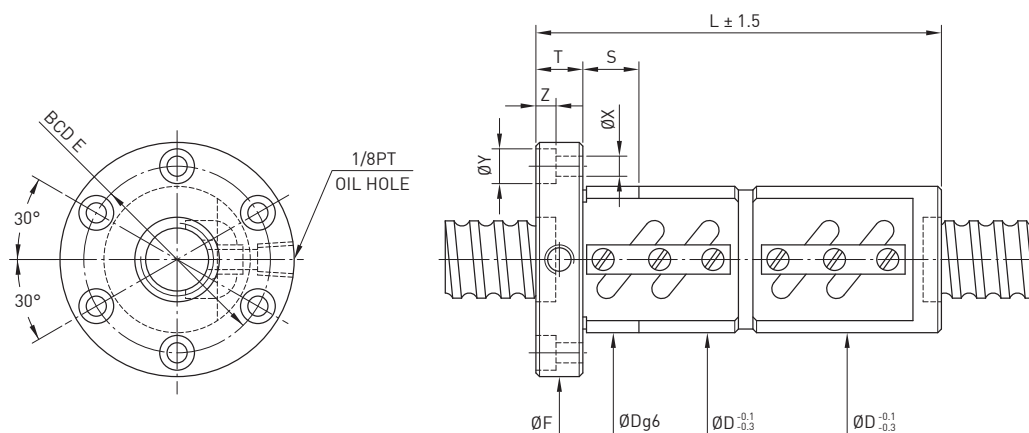


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μm K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut		Flange			Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z	S
16-5B2	16	5	3.175	16.6	13.324	2.5x2	65	1385	2799	40	110	64	12	51	5.5	9.5	5.5	24
16-5B1				16.6	13.324	2.5x1	32	763	1400	40	80	64	12	51	5.5	9.5	5.5	24
16-5C1				16.6	13.324	3.5x1	46	1013	1946	40	90	64	12	51	5.5	9.5	5.5	24
20-5B1				20.6	17.324	2.5x1	38	837	1733	44	80	68	12	55	5.5	9.5	5.5	24
20-5B2	20	6	3.969	20.6	17.324	2.5x2	76	1519	3465	44	110	68	12	55	5.5	9.5	5.5	24
20-6B1				20.8	16.744	2.5x1	40	1139	2187	48	92	72	12	59	5.5	9.5	5.5	24
20-6C1				20.8	16.744	3.5x1	55	1512	3041	48	104	72	12	59	5.5	9.5	5.5	24
25-5A2	25	5	3.175	25.6	22.324	1.5x2	54	1092	2622	50	102	73	12	61	5.5	9.5	5.5	24
25-5B1				25.6	22.324	2.5x1	46	939	2209	50	80	74	12	62	5.5	9.5	5.5	24
25-5B2				25.6	22.324	2.5x2	90	1704	4417	50	110	74	12	62	5.5	9.5	5.5	24
25-5C1				25.6	22.324	3.5x1	68	1252	3085	50	90	74	12	62	5.5	9.5	5.5	24
25-6B2		6	3.969	25.8	21.744	2.5x2	94	2304	5524	56	128	82	12	69	6.6	11	6.5	24
25-6C1				25.8	21.744	3.5x1	66	1690	3844	56	104	82	12	69	6.6	11	6.5	24
25-10B1		10	4.763	26	21.132	2.5x1	48	1592	3237	60	122	86	16	73	6.6	11	6.5	24
28-5B1	28	5	3.175	28.6	25.324	2.5x1	51	984	2466	55	80	85	12	69	6.6	11	6.5	24
28-5B2		6		28.6	25.324	2.5x2	98	1785	4932	55	110	85	12	69	6.6	11	6.5	24
28-6A2				28.6	25.324	1.5x2	59	1150	2960	55	110	85	12	69	6.6	11	6.5	24
28-6B2				28.6	25.324	2.5x2	98	1776	4980	55	123	85	12	69	6.6	11	6.5	24
32-4B2	4	2.381	32.25	29.792	2.5x2	91	1071	3582	54	93	81	12	67	6.6	11	6.5	24	
32-5B1	5	3.175	32.6	29.324	2.5x1	55	1039	2833	58	80	84	12	71	6.6	11	6.5	24	
32-5B2			32.6	29.324	2.5x2	109	1886	5666	58	110	84	12	71	6.6	11	6.5	24	
32-5C1			32.6	29.324	3.5x1	76	1388	3967	58	90	84	12	71	6.6	11	6.5	24	
32-6B1	6	3.969	32.8	28.744	2.5x1	57	1409	3510	62	92	88	12	75	6.6	11	6.5	24	
32-6B2			32.8	28.744	2.5x2	112	2556	7020	62	128	88	12	75	6.6	11	6.5	24	
32-6C1			32.8	28.744	3.5x1	78	1888	4936	62	104	88	12	75	6.6	11	6.5	24	
32-8A2	32	8	4.763	33	28.132	1.5x2	70	2082	5151	66	135	100	15	82	9	14	8.5	30
32-8B1				33	28.132	2.5x1	58	1810	4227	66	110	100	16	82	9	14	8.5	30
32-8B2				33	28.132	2.5x2	115	3284	8453	66	158	100	16	82	9	14	8.5	30
32-8B3				33	28.132	2.5x3	168	4653	12678	74	205	108	16	90	9	14	8.5	30
32-8C1	10	6.350	33	28.132	3.5x1	82	2428	5948	66	126	100	16	82	9	14	8.5	30	
32-10A2			33.4	26.91	1.5x2	72	3051	6612	74	167	108	15	90	9	14	8.5	30	
32-10B1			33.4	26.91	2.5x1	58	2651	5600	74	122	108	16	90	9	14	8.5	30	
32-10B2			33.4	26.91	2.5x2	118	4810	11199	74	182	108	16	90	9	14	8.5	30	
32-10C1			33.4	26.91	3.5x1	86	3519	7785	74	142	108	16	90	9	14	8.5	30	
32-12B1	12	12	6.350	33.4	26.91	2.5x1	62	2602	5510	74	153	108	18	90	9	14	8.5	30
32-12B2				33.4	26.91	2.5x2	118	4810	11199	74	232	108	16	90	9	14	8.5	30
32-12C1				33.4	26.91	3.5x1	84	3518	7784	74	166	108	16	90	9	14	8.5	30

Remark : Stiffness values listed above are derived from theoretical formula while preload is 10% of dynamic load rating.

F D W TYPE

◀ Standard Product

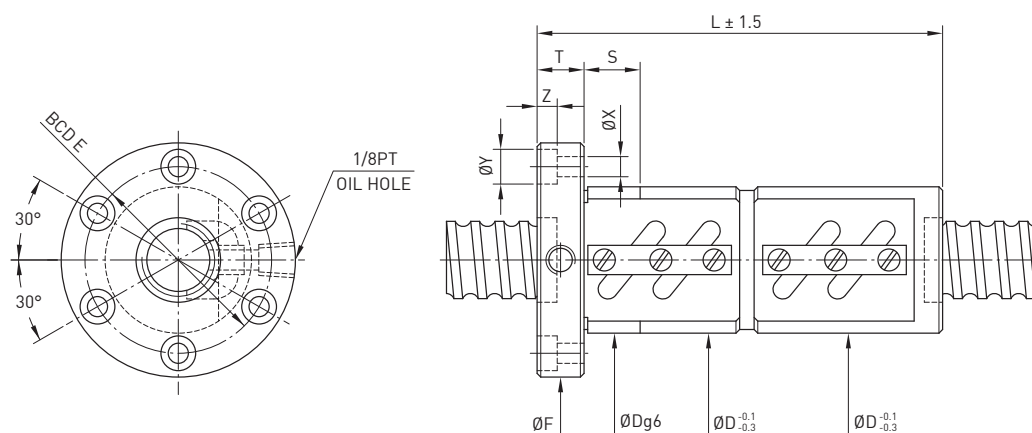


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μm K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut		Flange			Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z	S
36-6B1	36	6	3.969	36.8	32.744	2.5x1	62	1486	3969	65	92	100	12	82	6.6	11	6.5	24
36-6B2				36.8	32.744	2.5x2	121	2696	7937	65	128	100	12	82	6.6	11	6.5	24
36-12A2		12	4.763	37	32.132	1.5x2	80	2557	6693	70	155	108	15	90	9	14	8.5	30
36-12B1				37.4	30.91	2.5x1	67	2812	6334	75	126	120	16	98	11	17.5	11	30
36-10B2		10	6.350	37.4	30.91	2.5x2	132	5105	12669	75	184	120	18	98	11	17.5	11	30
36-12B2		12		37.4	30.91	2.5x2	130	5105	12668	75	206	120	18	98	11	17.5	11	30
36-8A2		8	4.763	37	32.132	1.5x2	77	2217	5669	70	135	108	15	90	9	14	8.5	30
36-8B2				37	32.132	2.5x2	126	3489	9606	70	158	108	15	90	9	14	8.5	30
40-5B1		5	3.175	40.6	37.324	2.5x1	65	1141	3567	68	84	102	16	84	9	14	8.5	~
40-5B2				40.6	37.324	2.5x2	132	2071	7134	68	114	102	16	84	9	14	8.5	30
40-6B2		6	3.969	40.8	36.744	2.5x2	136	2817	8855	70	132	104	16	86	9	14	8.5	30
40-8B1		40	8	4.763	41	36.132	2.5x1	69	2003	5302	74	110	108	16	90	9	14	8.5
40-8B2	41				36.132	2.5x2	137	3634	10603	74	158	108	16	90	9	14	8.5	30
40-8B3	41		36.132	2.5x3	200	5150	15904	74	210	108	15	90	9	14	8.5	30		
40-8C1	10		6.350	41	36.132	3.5x1	96	2679	7438	74	126	108	16	90	9	14	8.5	30
40-10A2				41.4	34.91	1.5x2	87	3418	8398	82	170	124	18	102	11	17.5	11	30
40-10B1	41.4		34.91	2.5x1	72	2959	7069	84	132	125	18	104	11	17.5	11	30		
40-10B2	41.4		34.91	2.5x2	145	5370	14138	84	192	125	18	104	11	17.5	11	30		
40-10C1	41.4		34.91	3.5x1	102	3932	9841	84	152	125	18	104	11	17.5	11	30		
40-12A2	12		7.144	41.6	34.299	1.5x2	88	4006	9404	86	160	128	18	106	11	17.5	11	30
40-12B1				41.6	34.299	2.5x1	70	3425	7837	86	153	128	18	106	11	17.5	11	40
40-12B2	41.6		34.299	2.5x2	141	6217	15674	86	225	128	18	106	11	17.5	11	40		
40-12C1	41.6		34.299	3.5x1	103	4637	11146	86	179	128	18	106	11	17.5	11	30		
40-16A2	16	7.144	41.6	34.299	1.5x2	83	4007	9405	86	214	128	18	106	11	17.5	11	40	
40-16B1			41.6	34.299	2.5x1	72	3425	7837	86	182	128	18	106	11	17.5	11	40	
40-16B2	41.6	34.299	2.5x2	143	6216	15674	86	272	128	22	106	11	17.5	11	30			
45-10B1	45	10	6.350	46.4	39.91	2.5x1	76	3111	7953	88	134	132	18	110	11	17.5	11	30
45-10B2				46.4	39.91	2.5x2	156	5655	15905	88	194	132	18	110	11	17.5	11	30
45-12B2		12	7.938	46.8	38.688	2.5x2	162	7627	19799	96	230	142	22	117	13	20	13	40
45-16B2		16	7.144	46.6	39.299	2.5x2	158	6636	17895	90	278	132	18	110	11	17.5	11	30
50-5A2	50	5	3.175	50.6	47.324	1.5x2	96	1447	5382	80	107	114	16	96	9	14	8.5	30
50-5A3				50.6	47.324	1.5x3	143	2051	8072	80	127	114	16	96	9	14	8.5	30
50-6B2		6	3.969	50.8	46.744	2.5x2	161	3093	11149	84	134	118	16	100	9	14	8.5	30
50-6B3				50.8	46.744	2.5x3	235	4384	16723	84	170	118	16	100	9	14	8.5	30
50-8B1		8	4.763	51	46.132	2.5x1	81	2206	6705	87	112	128	18	107	11	17.5	11	30
50-8B2				51	46.132	2.5x2	165	4004	13409	87	160	128	18	107	11	17.5	11	30
50-8B3		51	46.132	2.5x3	244	5674	20114	87	208	128	18	107	11	17.5	11	30		
50-10B1		10	6.350	51.4	44.91	2.5x1	88	3245	8918	93	133	135	18	113	11	17.5	11	30

Remark : Stiffness values listed above are derived from theoretical formula while preload is 10% of dynamic load rating.

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◀ Standard Product

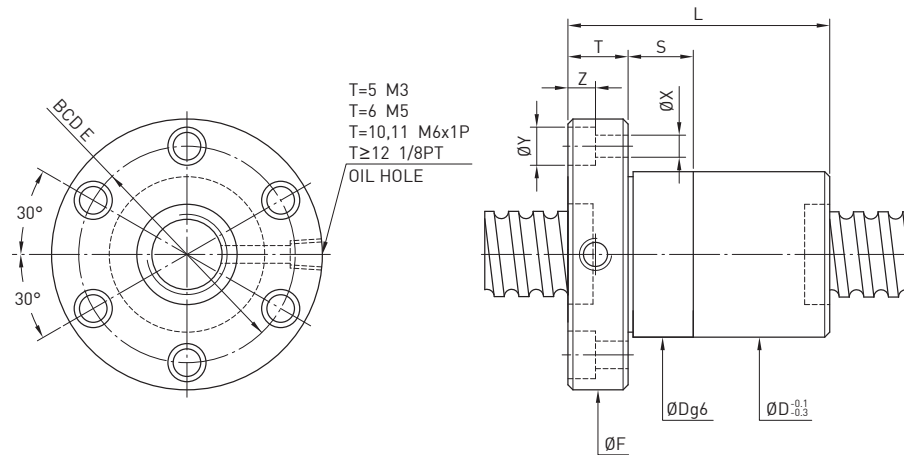


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μ m K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut		Flange			Bolt			Fit	
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z	S	
50-10B2	50	10	6.350	51.4	44.91	2.5x2	173	5923	17670	94	194	135	18	114	11	17.5	11	30	
50-10B3				51.4	44.91	2.5x3	255	8394	26505	94	254	135	18	114	11	17.5	11	30	
50-10C1		12	7.938	51.4	44.91	3.5x1	120	4393	12481	94	154	135	18	114	11	17.5	11	30	
50-12B1				51.8	43.688	2.5x1	90	4367	10918	100	159	146	22	122	14	20	13	40	
50-12B2				51.8	43.688	2.5x2	178	8022	22094	102	232	150	22	125	13	20	13	40	
50-12C1				51.8	43.688	3.5x1	123	5875	15380	102	184	150	22	125	13	20	13	40	
50-16B2				51.8	43.688	2.5x2	174	7918	21837	100	280	146	22	122	14	20	13	40	
50-20B1		20		51.8	43.688	2.5x1	90	4367	10918	100	227	146	28	122	14	20	13	40	
55-10C1	55	10	6.350	56.4	49.91	3.5x1	132	4562	13661	100	154	140	18	118	11	17.5	11	40	
55-12B2		12	7.938	56.8	48.688	2.5x2	185	8392	24390	105	232	154	22	127	13	20	13	40	
63-8A2	63	8	4.763	64	59.132	1.5x2	107	2826	10129	104	142	146	18	124	11	17.5	11	40	
63-8A3				64	59.132	1.5x3	154	4004	15193	104	174	146	18	124	11	17.5	11	40	
63-10B2		10	6.350	64.4	57.91	2.5x2	206	6533	22371	110	196	152	20	130	11	17.5	11	30	
63-10B3				64.4	57.91	2.5x3	305	9258	33556	110	256	152	20	130	11	17.5	11	30	
63-12B2		12	7.938	64.8	56.688	2.5x2	214	8943	28062	118	232	166	22	141	13	20	13	40	
63-16B2		16	9.525	65.2	55.466	2.5x2	280	14862	46009	124	296	172	22	147	13	20	13	40	
63-20B2		20		65.2	55.466	2.5x2	280	14862	46009	124	334	172	22	147	13	20	13	40	
70-10B2	70	10	6.350	71.4	64.91	2.5x2	228	6843	25011	124	196	170	20	145	13	20	13	40	
70-10B3				71.4	64.91	2.5x3	334	9698	37516	124	256	170	20	145	13	20	13	40	
70-12B2		12	7.938	71.8	63.688	2.5x2	236	9382	31275	130	232	178	22	152	13	20	13	40	
70-12B3				71.8	63.688	2.5x3	336	13296	46912	130	302	178	22	152	13	20	13	40	
70-20B2		20	9.525	72.2	62.466	2.5x2	300	15644	51502	130	325	186	28	158	18	26	17.5	60	
80-10B2	80	10	6.350	81.4	74.91	2.5x2	251	7202	28538	130	200	178	22	152	13	20	13	40	
80-10B3				81.4	74.91	2.5x3	368	10207	42807	130	260	178	22	152	13	20	13	40	
80-12B2		12	7.938	81.8	73.688	2.5x2	257	9797	35422	136	232	185	22	159	13	20	13	40	
80-12B3				81.8	73.688	2.5x3	380	13884	53132	136	302	185	22	159	13	20	13	40	
80-16B2		16	9.525	82.2	72.466	2.5x2	340	16485	58851	145	302	210	28	174	18	26	17.5	50	
80-16B3				82.2	72.466	2.5x3	498	23363	88276	145	398	210	28	174	18	26	17.5	50	
80-20B2		20		82.2	72.466	2.5x2	338	16485	58851	145	345	210	28	174	18	26	17.5	50	
80-20B3				82.2	72.466	2.5x3	498	23363	88276	145	470	210	28	174	18	26	17.5	50	
100-12B2	100	12	7.938	101.8	93.688	2.5x2	301	10761	44596	160	240	224	28	188	18	26	17.5	50	
100-12B3				101.8	93.688	2.5x3	452	15251	66894	160	312	224	28	188	18	26	17.5	50	
100-16B2		16	9.525	102.2	92.466	2.5x2	400	18123	74425	170	308	248	32	205	22	32	21.5	60	
100-16B3				102.2	92.466	2.5x3	595	25684	111637	170	404	248	32	205	22	32	21.5	60	
100-20B2		20		102.2	92.466	2.5x2	400	18123	74425	170	350	248	32	205	22	32	21.5	60	
100-20B3				102.2	92.466	2.5x3	595	25684	111637	170	475	248	32	205	22	32	21.5	60	

Remark : Stiffness values listed above are derived from theoretical formula while preload is 10% of dynamic load rating.

F S I TYPE

◀ Standard Product

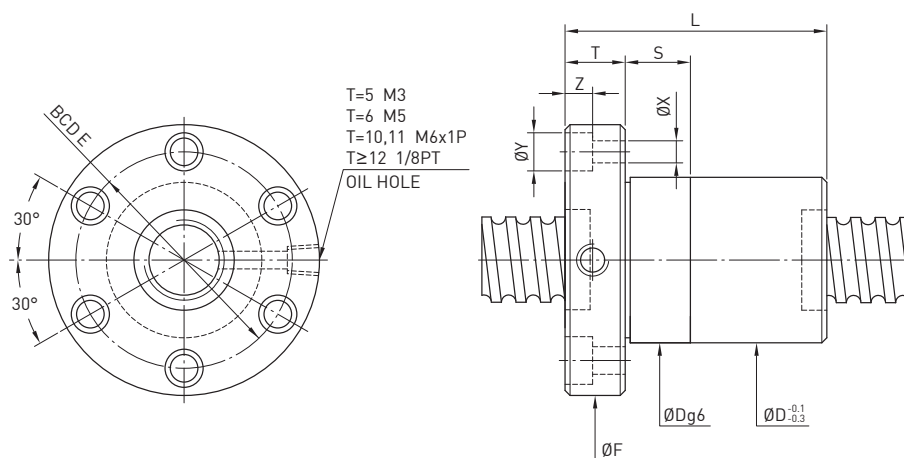


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μ m K	Dynamic Load 1×10^6 revs C (kgf)	Static Load Co (kgf)			Flange			Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z	
8-2.5T3	8	2.5	1.500	8.2	6.652	3	8	170	267	18	28	35	5	27	4.5	0	0	0
14-2.54T3	14	2.54	2.000	14.2	12.136	3	12	339	655	30	39	50	10.6	40	5	7	5	0
14-4T3		4		14.2	12.136	3	12	339	655	26	33	48	6	36	5.5	0	0	0
16-2T3		2		16.2	14.652	3	14	252	593	27	36	44	10	34	4.5	8	4.5	0
16-2.5T4		2.5	1.500	16.2	14.652	4	19	358	862	27	44	44	10	34	4.5	8	4.5	12
16-5T3		5		16.6	13.324	3	11	731	1331	30	46	54	12	41	5.5	9.5	5.5	12
16-5T4			3.175	16.6	13.324	4	12	936	1775	30	52	54	12	41	5.5	9.5	5.5	12
16-6T4		6		16.6	13.324	4	21	936	1775	32	58	54	12	42	5.5	9.5	5.5	12
20-2T6			1.500	20.2	18.652	6	32	518	1551	32	52	52	10	40	5.5	9.5	5.5	12
20-2T4		2		20.2	18.652	4	36	399	1112	32	40	52	10	40	5.5	9.5	5.5	12
20-2.5T5		2.5	2.000	20.2	18.136	5	28	637	1635	36	51	59	12	47	5.5	9.5	5.5	12
20-2.54T6		2.54		20.2	18.136	6	33	745	1962	36	55	59	12	47	5.5	9.5	5.5	12
20-4T3		4	2.381	20.25	17.792	3	17	509	1134	36	40	59	10	47	5.5	9.5	5.5	12
20-5T3				20.6	17.324	3	20	852	1767	34	46	57	12	45	5.5	9.5	5.5	12
20-5T4		5	3.175	20.6	17.324	4	27	1091	2356	34	53	57	12	45	5.5	9.5	5.5	12
20-6T3				20.8	16.744	3	20	1091	2081	36	51	60	12	48	5.5	9.5	5.5	12
20-6T4		6	3.969	20.8	16.744	4	27	1398	2774	36	61	60	12	48	5.5	9.5	5.5	12
20-10T3		10		20.8	16.744	3	20	1091	2080	35	64	57	12	45	5.5	9.5	5.5	12
25-2T6			1.500	25.2	23.652	6	39	560	1960	36	50	58	10	46	5.5	9.5	5.5	12
25-2T4		2		25.2	23.652	4	27	395	1307	36	40	58	10	46	5.5	9.5	5.5	12
25-2T3				25.2	23.652	3	20	309	980	36	35	58	10	46	5.5	9.5	5.5	12
25-2.5T5		2.5	2.000	25.2	23.136	5	34	716	2117	40	52	64	10	51	6.6	11	6.5	12
25-4T4		4	2.381	25.25	22.792	4	28	747	1989	40	53	64	12	51	5.5	9.5	5.5	12
25-5T3				25.6	22.324	3	28	977	2314	40	46	63	11	51	5.5	9.5	5.5	10
25-5T4		5	3.175	25.6	22.324	4	37	1252	3085	40	51	63	11	51	5.5	9.5	5.5	10
25-5T5				25.6	22.324	5	40	1516	3856	40	56	63	11	51	5.5	9.5	5.5	10
25-5T6				25.6	22.324	6	48	1773	4627	40	65	63	11	51	5.5	9.5	5.5	10
25-6T3				25.8	21.744	3	28	1272	2762	42	51	65	12	53	5.5	9.5	5.5	12
25-6T4		6	3.969	25.8	21.744	4	37	1628	3682	42	61	65	12	53	5.5	9.5	5.5	12
25-10T3		10	4.763	26	21.132	3	25	1591	3236	45	65	69	15	55	6.6	11	6.5	12
25-10T4				26	21.132	4	33	2038	4315	45	80	69	15	55	6.6	11	6.5	12

Remark : Stiffness values listed above value are derived from theoretical formula while axial load is 30% of dynamic load rating without preload.

F S I TYPE

◀ Standard Product



Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μ m K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut		Flange				Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z	S	
32-5T3	32	5	3.175	32.6	29.324	3	33	1117	3081	44	48	46	74	12	60	6.6	11	6.5	12
32-5T4				32.6	29.324	4	42	1431	4108	44	48	53	74	12	60	6.6	11	6.5	12
32-5T6				32.6	29.324	6	63	2027	6162	44	48	66	74	12	60	6.6	11	6.5	12
32-6T3		6	3.969	32.8	28.744	3	33	1446	3620	45	50	51	76	12	62	6.6	11	6.5	12
32-6T4				32.8	28.744	4	43	1852	4826	45	50	61	76	12	62	6.6	11	6.5	12
32-6T6				32.8	28.744	6	65	2625	7239	45	50	75	76	12	62	6.6	11	6.5	12
32-8T3		8	4.763	33	28.132	3	35	1810	4227	47	52	63	78	16	64	6.6	11	6.5	12
32-8T4				33	28.132	4	47	2317	5635	47	52	74	78	16	64	6.6	11	6.5	12
32-10T3		10	6.350	33.4	26.91	3	35	2539	5327	51	56	72	82	16	68	6.6	11	6.5	12
32-10T4				33.4	26.91	4	48	3252	7102	51	56	83	82	16	68	6.6	11	6.5	12
40-5T4	40	5	3.175	40.6	37.324	4	50	1599	5280	51	54	53	80	16	66	6.6	11	6.5	12
40-5T6		5.08	3.175	40.6	37.324	6	74	2265	7919	51	54	66	80	16	66	6.6	11	6.5	12
40-5.08T6				40.6	37.324	6	74	2265	7919	53	56	65	90	15	72	9	14	8.5	15
40-6T4				40.8	36.744	4	50	2136	6420	53	56	65	88	16	72	9	14	8.5	15
40-6T6		6	3.969	40.8	36.744	6	74	3028	9630	53	56	79	88	16	72	9	14	8.5	15
40-8T4		8	4.763	41	36.132	4	52	2728	7596	55	60	78	92	16	75	9	14	8.5	15
40-8T6				41	36.132	6	76	3866	11394	55	60	99	92	16	75	9	14	8.5	15
40-10T3		10	6.350	41.4	34.91	3	40	2959	7069	60	65	76	96	16	80	9	14	8.5	15
40-10T4				41.4	34.91	4	51	3789	9426	60	65	87	96	16	80	9	14	8.5	15
50-5T4	50	5	3.175	50.6	47.324	4	62	1757	6745	62	65	57	96	16	80	9	14	8.5	15
50-5T6		6	3.969	50.6	47.324	6	91	2490	10117	62	65	70	96	16	80	9	14	8.5	15
50-6T4				50.8	46.744	4	62	2388	8250	64	68	65	100	16	84	9	14	8.5	15
50-6T6				50.8	46.744	6	93	3384	12375	64	68	79	100	16	84	9	14	8.5	15
50-8T4		8	4.763	51	46.132	4	62	2998	9578	65	70	78	102	16	85	9	14	8.5	15
50-8T6				51	46.132	6	92	4249	14367	65	70	99	102	16	85	9	14	8.5	15
50-10T3		10	6.350	51.4	44.91	3	50	3397	9256	69	74	78	114	18	92	11	17.5	11	20
50-10T4				51.4	44.91	4	63	4350	12341	69	74	89	114	18	92	11	17.5	11	20
50-10T6				51.4	44.91	6	94	6165	18511	69	74	112	114	18	92	11	17.5	11	20
50-12T3		12	7.938	51.8	43.688	3	50	4420	11047	73	78	90	118	18	96	11	17.5	11	20
50-12T4				51.8	43.688	4	63	5660	14730	73	78	103	118	18	96	11	17.5	11	20
50-20T4		20	9.525	52.2	42.466	4	80	9327	23955	75	78	186	129	28	105	14	20	13	30

Remark : Stiffness values listed above value are derived from theoretical formula while axial load is 30% of dynamic load rating without preload.

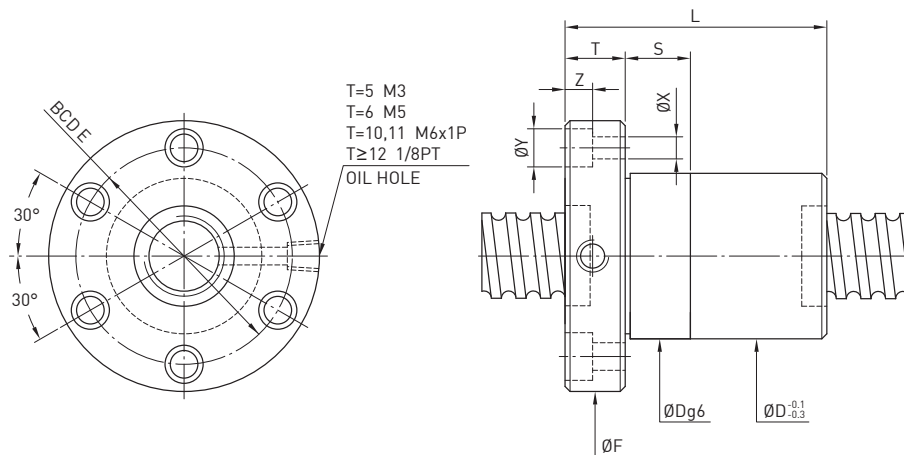
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◀ Standard Product

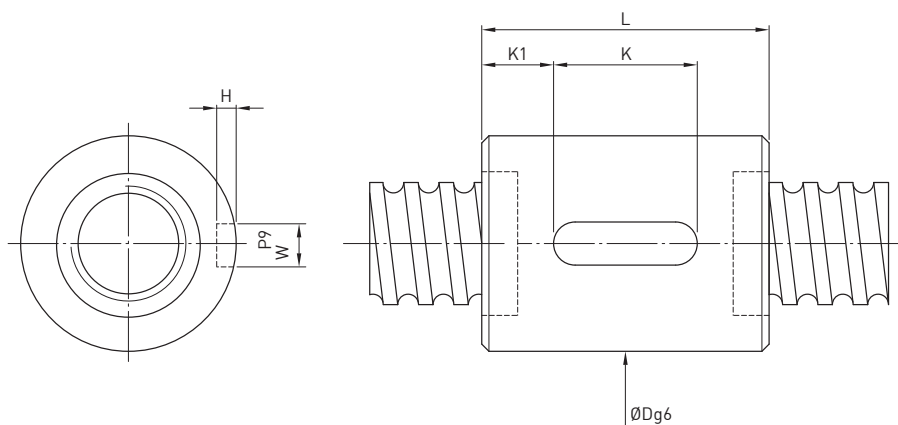


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μ m K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut			Flange			Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z	S	
63-6T4	63	6	3.969	63.8	59.744	4	75	2614	10542	78	80	66	119	18	98	11	17.5	11	20
63-6T6				63.8	59.744	6	113	3704	15813	78	80	81	119	18	98	11	17.5	11	20
63-8T4		8	4.763	64	59.132	4	77	3395	12541	79	82	80	122	18	100	11	17.5	11	20
63-8T6				64	59.132	6	114	4812	18811	79	82	101	122	18	100	11	17.5	11	20
63-10T4		10	6.350	64.4	57.91	4	79	4860	15858	82	88	91	134	20	110	14	20	13	20
63-10T6				64.4	57.91	6	115	6887	23786	82	88	114	134	20	110	14	20	13	20
63-12T4	80	12	7.938	64.8	56.688	4	78	6479	19293	86	92	105	138	20	114	14	20	13	20
63-12T6				64.8	56.688	6	113	9182	28939	86	92	133	138	20	114	14	20	13	20
80-10T4		10	6.350	81.4	74.91	4	96	5559	21118	99	105	91	152	20	127	14	20	13	20
80-10T6				81.4	74.91	6	140	7879	31677	99	105	114	152	20	127	14	20	13	20
80-12T4		12	7.938	81.8	73.688	4	97	7430	25681	103	110	109	170	24	138	18	26	17.5	25
80-12T6				81.8	73.688	6	141	10530	38521	103	110	137	170	24	138	18	26	17.5	25
80-16T3	100	16	9.525	82.2	72.466	3	95	9663	31622	108	115	118	174	24	143	18	26	17.5	25
80-16T4				82.2	72.466	4	130	12375	42162	108	115	136	174	24	143	18	26	17.5	25
80-20T3		20	9.525	82.2	72.466	3	95	9663	31622	108	115	138	174	24	143	18	26	17.5	25
80-20T4				82.2	72.466	4	125	12375	42162	108	115	161	174	24	143	18	26	17.5	25
100-12T4	100	12	7.938	101.8	93.688	4	105	8306	33001	123	130	109	190	24	158	18	26	17.5	25
100-12T6				101.8	93.688	6	175	11772	49502	123	130	137	190	24	158	18	26	17.5	25
100-16T4		16	9.525	102.2	92.466	4	107	13569	53161	125	135	136	194	24	163	18	26	17.5	30
100-16T6				102.2	92.466	6	140	19230	79741	125	135	173	194	24	163	18	26	17.5	30
100-20T4		20		102.2	92.466	4	155	13569	53161	125	135	161	194	24	163	18	26	17.5	30

Remark : Stiffness values listed above value are derived from theoretical formula while axial load is 30% of dynamic load rating without preload.

R S I TYPE

◀ Standard Product

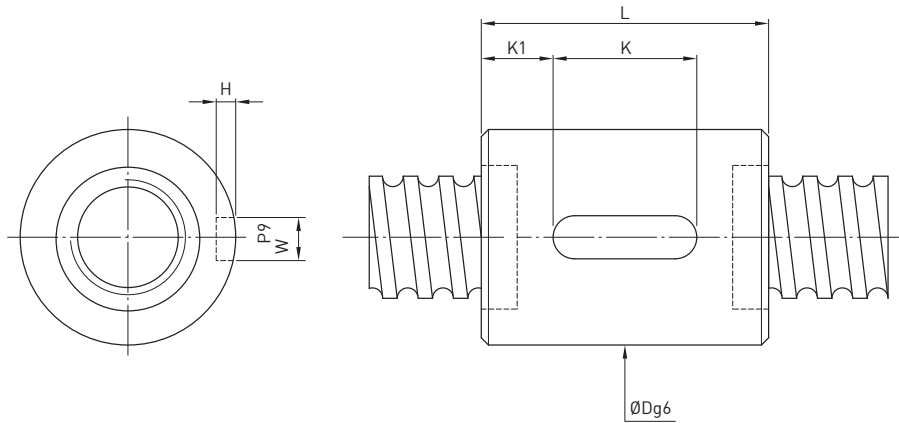


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μm K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut			Keyway			
	Nominal Dia.	Lead								D	L	K	W	H	K1	
16-2T4	16	2	1.500	16.2	14.652	4	15	178	395	25	25	25	20	3	1.8	2.5
16-5T3		5	3.175	16.6	13.324	3	11	731	1331	28	30	40	20	3	1.8	10
16-5T4				16.6	13.324	4	12	936	1775	28	30	46	20	3	1.8	13
20-5T3				20.6	17.324	3	20	852	1767	32	34	41	20	3	1.8	10.5
20-5T4	20	6	3.969	20.6	17.324	4	27	1091	2356	32	34	48	20	3	1.8	14
20-6T3				20.8	16.744	3	20	1091	2081	34	36	46	20	4	2.5	13
20-6T4				20.8	16.744	4	27	1398	2774	34	36	56	25	4	2.5	15.5
25-5T3		25	5	3.175	25.6	22.324	3	28	977	2314	37	40	41	20	4	2.5
25-5T4	6		3.969	25.6	22.324	4	37	1252	3085	37	40	48	20	4	2.5	14
25-6T3				25.8	21.744	3	28	1272	2762	38	42	46	20	4	2.5	13
25-6T4				25.8	21.744	4	37	1628	3682	38	42	56	25	4	2.5	15.5
32-5T3	32	5	3.175	32.6	29.324	3	33	1117	3081	44	48	41	20	4	2.5	10.5
32-5T4				32.6	29.324	4	42	1431	4108	44	48	48	20	4	2.5	14
32-5T6				32.6	29.324	6	63	2027	6162	44	48	61	25	4	2.5	18
32-6T3		6	3.969	32.8	28.744	3	33	1446	3620	45	50	46	20	5	3	13
32-6T4				32.8	28.744	4	43	1852	4826	45	50	56	25	5	3	15.5
32-6T6				32.8	28.744	6	65	2625	7239	45	50	70	32	5	3	19
32-8T3		8	4.763	33	28.132	3	35	1810	4227	47	52	59	25	5	3	17
32-8T4				33	28.132	4	47	2317	5635	47	52	70	25	5	3	22.5
32-10T3		10	6.350	33.4	26.91	3	35	2539	5327	51	56	68	25	6	3.5	21.5
32-10T4				33.4	26.91	4	48	3252	7102	51	56	79	32	6	3.5	23.5
40-5T4	40	5	3.175	40.6	37.324	4	50	1599	5280	51	54	48	20	4	2.5	14
40-5T6				40.6	37.324	6	74	2265	7919	51	54	61	25	4	2.5	18
40-6T4		6	3.969	40.8	36.744	4	50	2136	6420	53	56	56	25	5	3	15.5
40-6T6				40.8	36.744	6	74	3028	9630	53	56	70	32	5	3	19
40-8T4		8	4.763	41	36.132	4	52	2728	7596	55	60	70	25	5	3	22.5
40-8T6				41	36.132	6	76	3866	11394	55	60	91	40	5	3	25.5
40-10T3		10	6.350	41.4	34.91	3	40	2959	7069	60	65	68	25	6	3.5	21.5
40-10T4				41.4	34.91	4	51	3789	9426	60	65	79	32	6	3.5	23.5
50-5T4	50	5	3.175	50.6	47.324	4	62	1757	6745	62	65	48	20	4	2.5	14
50-5T6				50.6	47.324	6	91	2490	10117	62	65	61	25	4	2.5	18
50-6T4		6	3.969	50.8	46.744	4	62	2388	8250	64	68	56	25	5	3	15.5
50-6T6				50.8	46.744	6	93	3384	12375	64	68	70	32	5	3	19
50-8T4		8	4.763	51	46.132	4	62	2998	9578	65	70	70	32	5	3	19
50-8T6				51	46.132	6	92	4249	14367	65	70	91	40	5	3	25.5
50-10T3		10	6.350	51.4	44.91	3	50	3397	9256	69	74	68	32	6	3.5	18
50-10T4				51.4	44.91	4	63	4350	12341	69	74	79	32	6	3.5	23.5

Remark : Stiffness values listed above value are derived from theoretical formula while axial load is 30% of dynamic load rating without preload.

R S I TYPE

◀ Standard Product

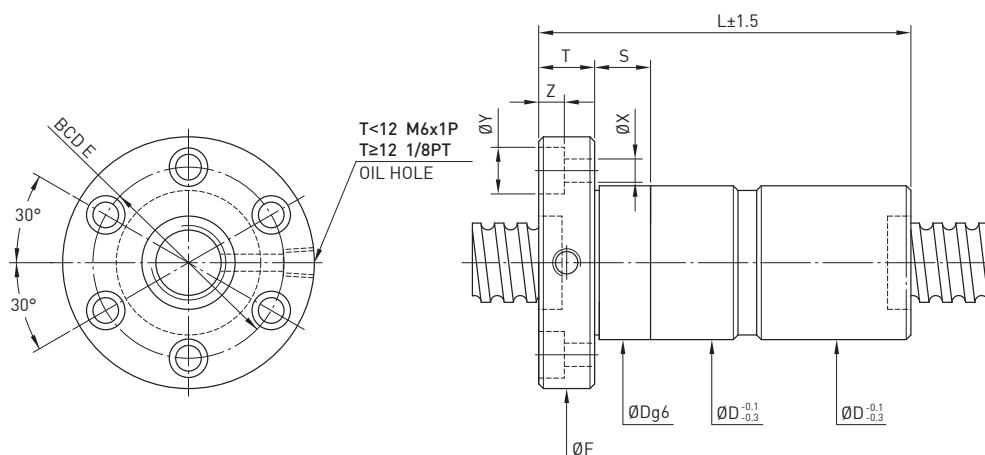


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μm K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut			Keyway			
	Nominal Dia.	Lead								D	L	K	W	H	K1	
50-10T6	50	10	6.350	51.4	44.91	6	94	6165	18511	69	74	102	40	6	3.5	31
50-12T3		12	7.938	51.8	43.688	3	50	4420	11047	73	78	82	40	6	3.5	21
50-12T4				51.8	43.688	4	63	5660	14730	73	78	95	40	6	3.5	27.5
63-6T4	63	6	3.969	63.8	59.744	4	75	2674	10542	78	80	56	25	6	3.5	15.5
63-6T6				63.8	59.744	6	113	3704	15813	78	80	70	32	6	3.5	19
63-8T4		8	4.763	64	59.132	4	77	3395	12541	79	82	70	32	6	3.5	19
63-8T6				64	59.132	6	114	4812	18811	79	82	91	40	6	3.5	25.5
63-10T4		10	6.350	64.4	57.91	4	79	4860	15858	82	88	79	32	8	4	23.5
63-10T6				64.4	57.91	6	115	6887	23786	82	88	102	40	8	4	31
63-12T4	63	12	7.938	64.8	56.688	4	78	6479	19293	86	92	95	40	8	4	27.5
63-12T6				64.8	56.688	6	113	9182	28939	86	92	123	50	8	4	36.5
80-10T4	80	10	6.350	81.4	74.91	4	96	5559	21118	99	105	79	32	8	4	23.5
80-10T6				81.4	74.91	6	140	7879	31677	99	105	102	40	8	4	31
80-12T4		12	7.938	81.8	73.688	4	97	7430	25681	103	110	95	40	8	4	27.5
80-12T6				81.8	73.688	6	141	10530	38521	103	110	123	50	8	4	36.5
80-16T3		16	9.525	82.2	72.466	3	95	9663	31622	108	115	106	40	10	5	33
80-16T4				82.2	72.466	4	130	12375	42162	108	115	124	50	10	5	37
80-20T3	80	20	9.525	82.2	72.466	3	95	9663	31622	108	115	126	50	10	5	38
80-20T4				82.2	72.466	4	125	12375	42162	108	115	149	63	10	5	43
100-12T4	100	12	7.938	101.8	93.688	4	105	8306	33001	123	130	95	40	8	4	27.5
100-12T6				101.8	93.688	6	175	11772	49502	123	130	123	50	8	4	36.5
100-16T4		16	9.525	102.2	92.466	4	107	13569	53161	125	135	124	50	10	5	37
100-16T6				102.2	92.466	6	140	19230	79741	125	135	161	63	10	5	49
100-20T4	100	20		102.2	92.466	4	155	13569	53161	125	135	149	63	10	5	43

Remark : Stiffness values listed above value are derived from theoretical formula while axial load is 30% of dynamic load rating without preload.

F D I TYPE

◀ Standard Product

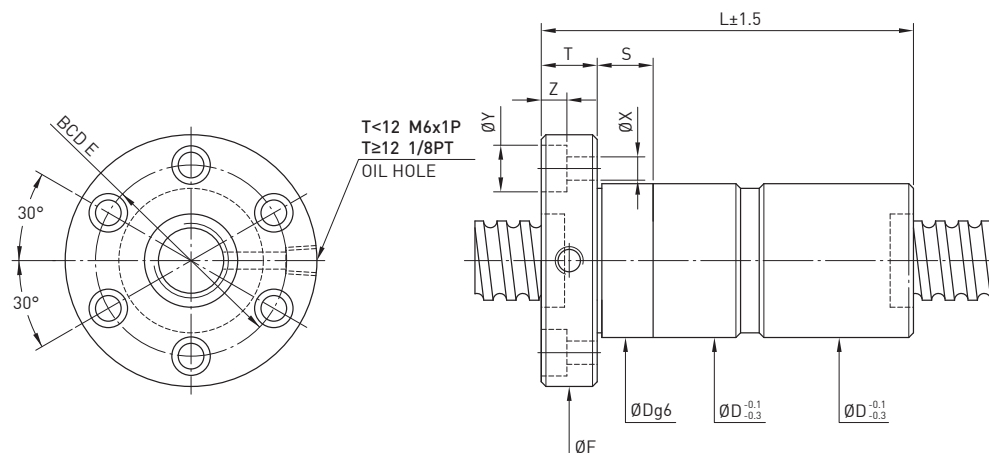


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μ m K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut			Flange			Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z	S	
16-5T3	16	5	3.175	16.6	13.324	3	20	731	1331	28	30	78	54	12	41	5.5	9.5	5.5	24
16-5T4				16.6	13.324	4	23	936	1775	28	30	90	54	12	41	5.5	9.5	5.5	24
20-5T3				20.6	17.324	3	39	852	1767	32	34	78	57	12	45	5.5	9.5	5.5	24
20-5T4	20	6	3.969	20.6	17.324	4	54	1091	2356	32	34	92	57	12	45	5.5	9.5	5.5	24
20-6T3				20.8	16.744	3	39	1091	2081	34	36	89	60	12	48	5.5	9.5	5.5	24
20-6T4				20.8	16.744	4	54	1398	2774	34	36	109	60	12	48	5.5	9.5	5.5	24
25-2.5T5	25	2.5	2.000	25.2	23.136	5	66	716	2117	35	40	87	65	10	51	6.6	11	6.5	24
25-5T3		5	3.175	25.6	22.324	3	55	977	2314	37	40	78	64	12	52	5.5	9.5	5.5	24
25-5T4				20.6	22.324	4	73	1252	3085	37	40	96	64	12	52	5.5	9.5	5.5	24
25-6T3		6	3.969	25.8	21.744	3	56	1272	2762	38	42	89	65	12	53	5.5	9.5	5.5	24
25-6T4				25.8	21.744	4	75	1628	3682	38	42	109	65	12	53	5.5	9.5	5.5	24
25-10T3		10	4.763	26	21.132	3	49	1643	3265	47	51	140	74	15	60	6.6	11	6.5	24
28-5T5	28	5	3.175	28.6	25.324	5	86	1619	4404	45	50	110	74	12	62	5.5	9.5	5.5	24
28-10T4		10	4.763	29	24.132	4	70	2199	4969	45	50	150	74	12	61	6.6	11	6.5	24
32-2.5T6		2.5	2.000	32.2	30.136	6	97	928	3339	45	51	106	74	12	62	5.5	9.5	5.5	24
32-5T3	32	5	3.175	32.6	29.324	3	64	1117	3081	44	48	78	74	12	60	6.6	11	6.5	24
32-5T4				32.6	29.324	4	82	1431	4108	44	48	96	74	12	60	6.6	11	6.5	24
32-5T6				32.6	29.324	6	121	2027	6162	44	48	118	74	12	60	6.6	11	6.5	24
32-5.08T4		5.08		32.6	29.324	4	82	1430	4108	44	48	96	74	12	60	6.6	11	6.5	24
32-6T3		6	3.969	32.8	36.856	3	65	1446	3620	45	50	89	76	12	62	6.6	11	6.5	24
32-6T4				32.8	36.856	4	84	1852	4826	45	50	109	76	12	62	6.6	11	6.5	24
32-6T6				32.8	36.856	6	125	2625	7239	45	50	137	76	12	62	6.6	11	6.5	24
32-8T3		8	4.763	33	37.868	3	68	1810	4227	47	52	110	78	16	64	6.6	11	6.5	24
32-8T4				33	37.868	4	82	2317	5635	47	52	136	78	16	64	6.6	11	6.5	24
32-10T3		10	6.350	33.4	39.89	3	68	2539	5327	51	56	129	82	16	68	6.6	11	6.5	24
40-5T4	40	5	3.175	40.6	37.324	4	99	1599	5280	51	54	96	80	16	66	6.6	11	6.5	24
40-5T6				40.6	37.324	6	146	2265	7919	51	54	122	80	16	66	6.6	11	6.5	24
40-6T4		6	3.969	40.8	36.744	4	100	2136	6420	53	56	113	88	16	72	9	14	8.5	30
40-6T6				40.8	36.744	6	148	3028	9630	53	56	141	88	16	72	9	14	8.5	30
40-8T4		8	4.763	41	36.132	4	102	2728	7596	55	60	136	92	16	75	9	14	8.5	30
40-8T6				41	36.132	6	150	3866	11394	55	60	178	92	16	75	9	14	8.5	30
40-10T3		10	6.350	41.4	34.91	3	76	2959	7069	60	65	133	96	16	80	9	14	8.5	30
40-10T4				41.4	34.91	4	101	3789	9426	60	65	155	96	16	80	9	14	8.5	30
40-10T5				41.4	34.91	5	119	4590	11781	60	65	192	96	16	80	9	14	8.5	30
40-12T3				41.4	34.91	3	73	2958	7069	58	60	160	96	18	80	9	14	8.5	30
40-12T4		12		41.4	34.91	4	101	3789	9425	58	60	186	96	18	80	9	14	8.5	30

Remark : Stiffness values listed above are derived from theoretical formula while preload is 10% of dynamic load rating.

F D I TYPE

◀ Standard Product

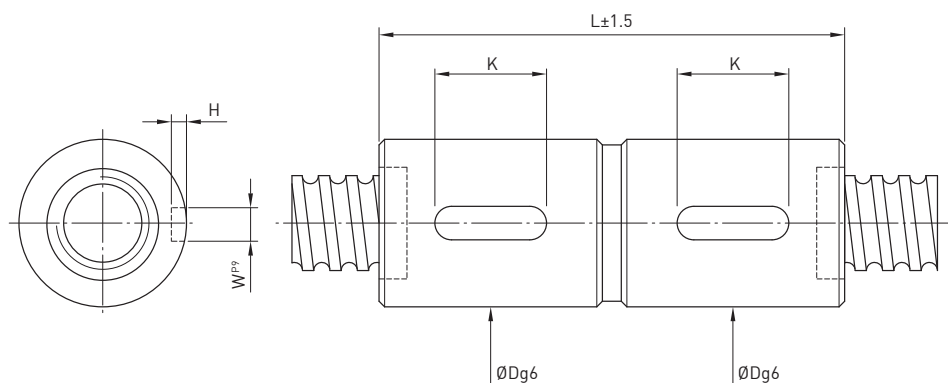


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μm K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut			Flange			Bolt			Fit	
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z	S		
45-10T4	45	10	7.144	46.6	39.299	4	108	4683	11930	68	70	160	110	18	90	11	17.5	11	30	
45-12T3		12	6.350	46.4	39.91	3	80	3115	7952	68	70	183	110	16	90	11	17.5	11	30	
45-16T3		16	7.144	46.6	39.299	3	82	3656	8947	68	70	183	110	16	90	11	17.5	11	30	
50-5T4	50	5	3.175	50.6	47.324	4	121	1757	6745	62	65	96	96	16	80	9	14	8.5	30	
50-5T6				50.6	47.324	6	177	2490	10117	62	65	122	96	16	80	9	14	8.5	30	
50-6T4		6	3.969	50.8	46.744	4	123	2388	8250	64	68	113	100	16	84	9	14	8.5	30	
50-6T6				50.8	46.744	6	179	3384	12375	64	68	147	100	16	84	9	14	8.5	30	
50-8T4		8	4.763	51	46.132	4	122	2998	9578	65	70	136	102	16	85	9	14	8.5	30	
50-8T6				51	46.132	6	178	4249	14367	65	70	178	102	16	85	9	14	8.5	30	
50-10T3		10	6.350	51.4	44.91	3	95	3397	9256	69	74	135	114	18	92	11	17.5	11	40	
50-10T4				51.4	44.91	4	124	4350	12341	69	74	157	114	18	92	11	17.5	11	40	
50-10T6				51.4	44.91	6	184	6165	18511	69	74	203	114	18	92	11	17.5	11	40	
50-12T3		12	7.938	51.8	43.688	3	94	4420	11047	73	78	158	118	18	96	11	17.5	11	40	
50-12T4	51.8			43.688	4	124	5660	14730	73	78	184	118	18	96	11	17.5	11	40		
63-6T4	63	6	3.969	63.8	59.744	4	148	2674	10542	78	80	115	119	18	98	11	17.5	11	40	
63-6T6				63.8	59.744	6	220	3704	15813	78	80	143	119	18	98	11	17.5	11	40	
63-8T4		8	4.763	64	59.132	4	152	3395	12541	79	82	138	122	18	100	11	17.5	11	40	
63-8T6				64	59.132	6	222	4812	18811	79	82	180	122	18	100	11	17.5	11	40	
63-10T4		10	6.350	64.4	57.91	4	158	4860	15858	82	88	159	134	20	110	14	20	13	40	
63-10T6				64.4	57.91	6	228	6887	23786	82	88	205	134	20	110	14	20	13	40	
63-12T4		12	7.938	64.8	56.688	4	152	6479	19293	86	92	186	138	20	114	14	20	13	40	
63-12T6				64.8	56.688	6	224	9182	28939	86	92	242	138	20	114	14	20	13	40	
80-10T4	80	10	6.350	81.4	74.91	4	190	5559	21118	99	105	172	152	20	127	14	20	13	40	
80-10T6				81.4	74.91	6	277	7879	31677	99	105	214	152	20	127	14	20	13	40	
80-12T4		12	7.938	81.8	73.688	4	192	7430	25681	103	110	190	170	24	138	18	26	17.5	50	
80-12T6				81.8	73.688	6	280	10530	38521	103	110	246	170	24	138	18	26	17.5	50	
80-16T3		16	9.525	82.2	72.466	3	188	9663	31622	108	115	208	174	24	143	18	26	17.5	50	
80-16T4				82.2	72.466	4	254	12375	42162	108	115	244	174	24	143	18	26	17.5	50	
80-20T3		20		82.2	72.466	3	189	9663	31622	108	115	250	174	24	143	18	26	17.5	50	
80-20T4				82.2	72.466	4	248	12375	42162	108	115	296	174	24	143	18	26	17.5	50	
100-12T4	100	12	7.938	101.8	93.688	4	206	8306	33001	123	130	190	190	24	158	18	26	17.5	50	
100-12T6				101.8	93.688	6	343	11772	49502	123	130	246	190	24	158	18	26	17.5	50	
100-16T4		16	9.525	102.2	92.466	4	212	13569	53161	135	135	244	194	24	163	18	26	17.5	60	
100-16T6				102.2	92.466	6	276	19230	79741	135	135	318	194	24	163	18	26	17.5	60	
100-20T4		20		102.2	92.466	4	300	13569	53161	135	135	296	194	24	163	18	26	17.5	60	

Remark : Stiffness values listed above are derived from theoretical formula while preload is 10% of dynamic load rating.

R D I TYPE

◀ Standard Product

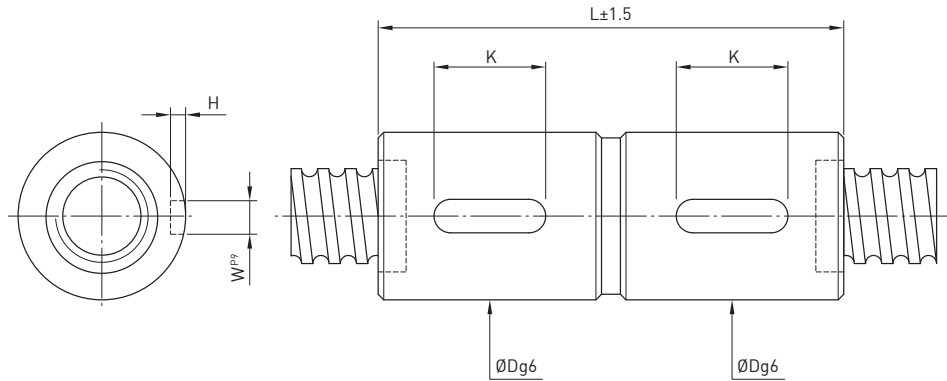


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μm K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut			Keyway			
	Nominal Dia.	Lead								D	L	K	W	H		
16-5T3	16	5	3.175	16.6	13.324	3	20	731	1331	28	30	72	20	3	1.8	
16-5T4				16.6	13.324	4	23	936	1775	28	30	85	20	3	1.8	
20-5T3	20	5		20.6	17.324	3	39	852	1767	32	34	75	20	3	1.8	
20-5T4				20.6	17.324	4	54	1091	2356	32	34	85	20	3	1.8	
20-6T3		6	3.969	20.8	16.744	3	39	1091	2081	34	36	87	20	4	2.5	
20-6T4				20.8	16.744	4	54	1398	2774	34	36	103	25	4	2.5	
25-5T3	25	5		25.6	22.324	3	55	977	2314	37	40	75	20	4	2.5	
25-5T4				25.6	22.324	4	73	1252	3085	37	40	85	20	4	2.5	
25-6T3		6	3.969	25.8	21.744	3	56	1272	2762	38	42	87	20	4	2.5	
25-6T4				25.8	21.744	4	75	1628	3682	38	42	103	25	4	2.5	
32-5T3	32	5		3.175	32.6	29.324	3	64	1117	3081	44	48	75	20	4	2.5
32-5T4					32.6	29.324	4	82	1431	4108	44	48	85	20	4	2.5
32-5T6		6	3.969		32.6	29.324	6	121	2027	6162	44	48	105	25	4	2.5
32-6T3					32.8	28.744	3	65	1446	3620	45	50	87	20	5	3
32-6T4	8			4.763	32.8	28.744	4	84	1852	4826	45	50	103	25	5	3
32-6T6					32.8	28.744	6	125	2625	7239	45	50	127	32	5	3
32-8T3	10	6.350	33		28.132	3	68	1810	4227	47	52	109	25	5	3	
32-8T4			33		28.132	4	82	2317	5635	47	52	127	25	5	3	
32-10T3			33.4	26.91	3	68	2539	5327	51	56	135	25	6	3.5		
32-10T4			33.4	26.91	4	82	3252	7102	51	56	155	32	6	3.5		
40-5T4	40	5	3.175	40.6	37.324	4	99	1599	5280	51	54	85	20	4	2.5	
40-5T6				40.6	37.324	6	146	2265	7919	51	54	105	25	4	2.5	
40-6T4		6		3.969	40.8	36.744	4	100	2136	6420	53	56	103	25	5	3
40-6T6					40.8	36.744	6	148	3028	9630	53	56	127	32	5	3
40-8T4	8	4.763	41		36.132	4	102	2728	7596	55	60	127	25	5	3	
40-8T6			41		36.132	6	150	3866	11394	55	60	161	40	5	3	
40-10T3	10		6.350	41.4	34.91	3	76	2959	7069	60	65	135	25	6	3.5	
40-10T4				41.4	34.91	4	101	3789	9426	60	65	155	32	6	3.5	

Remark : Stiffness values listed above are derived from theoretical formula while preload is 10% of dynamic load rating.

R D I TYPE

◀ Standard Product

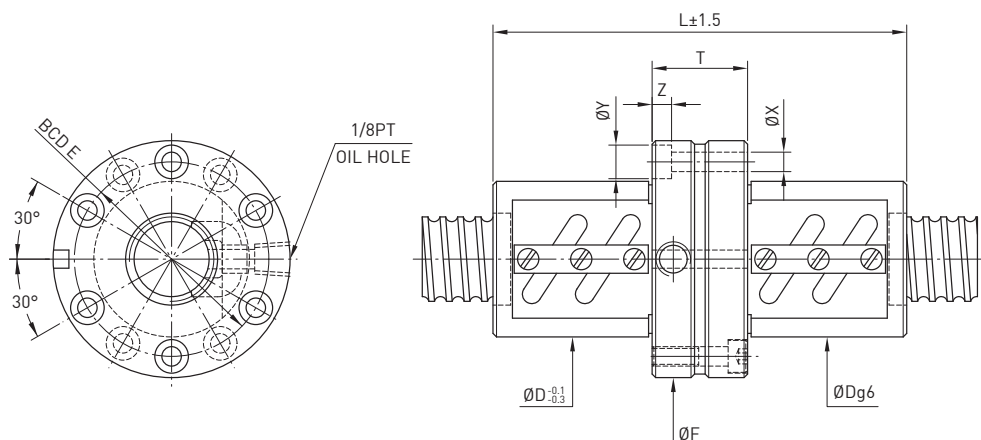


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μm K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut			Keyway		
	Nominal Dia.	Lead								D	L	K	W	H	
50-5T4	50	5	3.175	50.6	47.324	4	121	1757	6745	62	65	85	20	4	2.5
50-5T6				50.6	47.324	6	177	2490	10117	62	65	105	25	4	2.5
50-6T4		6	3.969	50.8	46.744	4	123	2388	8250	64	68	103	25	5	3
50-6T6				50.8	46.744	6	179	3384	12375	64	68	127	32	5	3
50-8T4		8	4.763	51	46.132	4	122	2998	9578	65	70	127	32	5	3
50-8T6				51	46.132	6	178	4249	14367	65	70	161	40	5	3
50-10T3		10	6.350	51.4	44.91	3	95	3397	9256	69	74	135	32	6	3.5
50-10T4				51.4	44.91	4	124	4350	12341	69	74	155	32	6	3.5
50-10T6		12	7.938	51.4	44.91	6	184	6165	18511	69	74	197	40	6	3.5
50-12T3				51.8	43.688	3	94	4420	11047	73	78	161	40	6	3.5
50-12T4				51.8	43.688	4	124	5660	14730	73	78	185	40	6	3.5
63-6T4	63	6	3.969	63.8	59.744	4	148	2614	10542	78	80	106	25	6	3.5
63-6T6				63.8	59.744	6	220	3704	15813	78	80	130	32	6	3.5
63-8T4		8	4.763	64	59.132	4	152	3395	12541	79	82	131	32	6	3.5
63-8T6				64	59.132	6	222	4812	18811	79	82	165	40	6	3.5
63-10T4		10	6.350	64.4	57.91	4	158	4860	15858	82	88	160	32	8	4
63-10T6				64.4	57.91	6	228	6887	23786	82	88	202	40	8	4
63-12T4		12	7.938	64.8	56.688	4	152	6479	19293	86	92	185	40	8	4
63-12T6				64.8	56.688	6	224	9182	28939	86	92	238	50	8	4
63-20T4		20	9.525	65.2	55.466	4	189	10657	31251	90	95	260	50	8	4
80-10T4	80	10	6.350	81.4	74.91	4	190	5559	21118	99	105	160	32	8	4
80-10T6				81.4	74.91	6	277	7879	31677	99	105	202	40	8	4
80-12T4		12	7.938	81.8	73.688	4	192	7430	25681	103	110	185	40	8	4
80-12T6				81.8	73.688	6	280	10530	38521	103	110	238	50	8	4
80-16T3		16	9.525	82.2	72.466	3	188	9663	31622	108	115	200	40	10	5
80-16T4				82.2	72.466	4	254	12375	42162	108	115	236	50	10	5
80-20T3		20	9.525	82.2	72.466	3	189	9663	31622	108	115	245	50	10	5
80-20T4				82.2	72.466	4	248	12375	42162	108	115	289	63	10	5
100-12T4	100	12	7.938	101.8	93.688	4	206	8306	33001	123	130	185	40	8	4
100-12T6				101.8	93.688	6	343	11772	49502	123	130	238	50	8	4
100-16T4		16	9.525	102.2	92.466	4	212	13569	53161	125	135	236	50	10	5
100-16T6				102.2	92.466	6	276	19230	79741	125	135	310	63	10	5
100-20T4		20	9.525	102.2	92.466	4	300	13569	53161	125	135	289	63	10	5

Remark : Stiffness values listed above are derived from theoretical formula while preload is 10% of dynamic load rating.

P F D W TYPE 1

◀ Standard Product

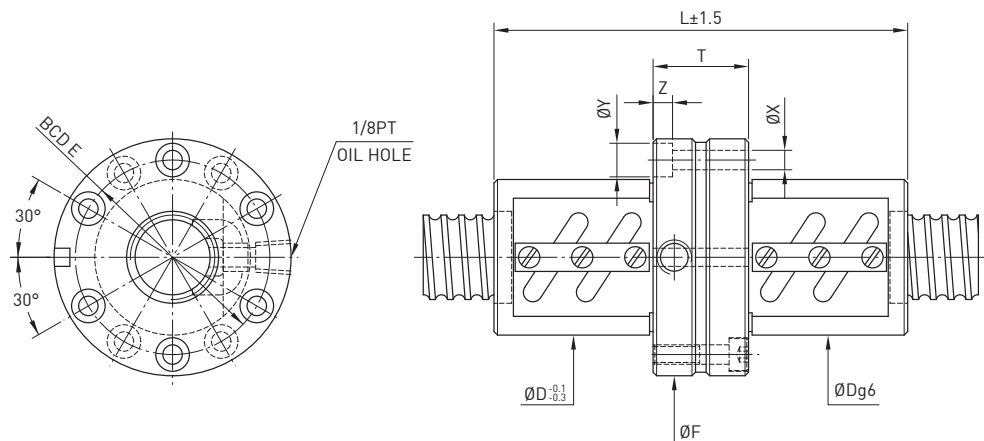


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μ m K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut		Flange			Bolt		
	Nominal Dia.	Lead								D	L	T	F	BCD-E	X	Y	Z
20-5B1	20	5	3.175	20.6	17.324	2.5x1	38	837	1733	44	87	27	67	55	5.5	9.5	5.5
20-5B2				20.6	17.324	2.5x2	76	1519	3465	44	117	27	67	55	5.5	9.5	5.5
20-6B1		6	3.969	20.8	16.744	2.5x1	40	1139	2187	48	95	29	71	59	5.5	9.5	5.5
20-6C1				20.8	16.744	3.5x1	55	1512	3041	48	107	29	71	59	5.5	9.5	5.5
25-5B1	25	5	3.175	25.6	22.324	2.5x1	46	939	2209	50	86	28	73	61	5.5	9.5	5.5
25-5B2				25.6	22.324	2.5x2	90	1704	4417	50	116	28	73	61	5.5	9.5	5.5
25-5C1		6	3.969	25.6	22.324	3.5x1	68	1252	3085	50	96	28	73	61	5.5	9.5	5.5
25-6C1				25.8	21.744	3.5x1	66	1690	3844	56	107	29	82	69	5.5	9.5	5.5
32-5B1	32	5	3.175	32.6	29.324	2.5x1	55	1039	2833	58	91	33	85	71	6.6	11	6.5
32-5B2				32.6	29.324	2.5x2	109	1886	5666	58	121	33	85	71	6.6	11	6.5
32-6B1		6	3.969	32.8	28.744	2.5x1	57	1409	3510	62	95	29	89	75	6.6	11	6.5
32-6B2				32.8	28.744	2.5x2	112	2556	7020	62	131	29	89	75	6.6	11	6.5
32-8B1		8	4.763	33	28.132	2.5x1	58	1810	4227	66	125	39	100	82	9	14	8.5
32-8B2				33	28.132	2.5x2	115	3284	8453	66	173	39	100	82	9	14	8.5
32-10B1		10	6.350	33.4	26.91	2.5x1	58	2651	5600	74	185	38	108	90	9	14	8.5
32-10B2				33.4	26.91	2.5x2	118	4810	11199	74	208	38	108	90	9	14	8.5
32-10C1				33.4	26.91	3.5x1	86	3519	7785	74	168	38	108	90	9	14	8.5
40-5B1	40	5	3.175	40.6	37.324	2.5x1	65	1141	3567	68	96	38	101	83	9	14	8.5
40-5B2				40.6	37.324	2.5x2	132	2071	7134	68	126	38	101	83	9	14	8.5
40-6B1		6	3.969	40.8	36.744	2.5x1	67	1552	4428	70	101	35	104	86	9	14	8.5
40-6B2				40.8	36.744	2.5x2	136	2817	8855	70	137	35	104	86	9	14	8.5
40-8B1		8	4.763	41	36.132	2.5x1	69	2003	5302	74	125	39	108	90	9	14	8.5
40-8B2				41	36.132	2.5x2	137	3634	10603	74	173	39	108	90	9	14	8.5
40-10B1		10	6.350	41.4	34.91	2.5x1	72	2959	7069	84	158	48	124	102	11	17.5	11
40-10B2				41.4	34.91	2.5x2	145	5370	14138	84	218	48	124	102	11	17.5	11
40-10C1				41.4	34.91	3.5x1	102	3932	9841	84	178	48	124	102	11	17.5	11
40-12B1	40	12	7.144	41.6	34.299	2.5x1	70	3425	7837	86	174	48	128	106	11	17.5	11
40-12B2				41.6	34.299	2.5x2	141	6217	15674	86	246	48	128	106	11	17.5	11

Remark : Stiffness values listed above are derived from theoretical formula while preload is 10% of dynamic load rating.

P F D W TYPE 1

◀ Standard Product

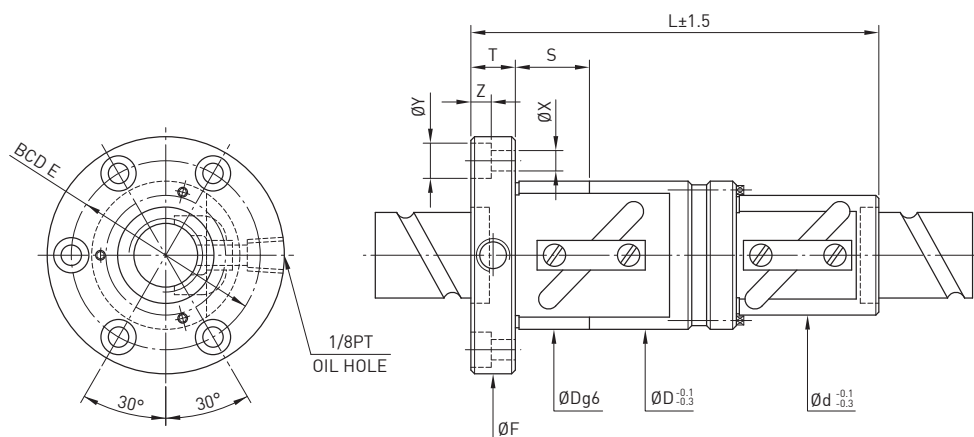


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μm K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut		Flange			Bolt				
	Nominal Dia.	Lead								D	L	T	F	BCD-E	X	Y	Z		
50-8B1	50	8	4.763	51	46.132	2.5x1	81	2206	6705	87	133	47	129	107	11	17.5	11		
50-8B2				51	46.132	2.5x2	165	4004	13409	87	181	47	129	107	11	17.5	11		
50-10B1		10	6.350	51.4	44.91	2.5x1	87	3264	8835	94	158	48	135	113	11	17.5	11		
50-10B2				51.4	44.91	2.5x2	173	5923	17670	94	218	48	135	113	11	17.5	11		
50-12B2		12	7.938	51.8	43.688	2.5x2	178	8022	22094	102	260	58	146	122	14	20	13		
50-12C1	63	10	6.350	51.8	43.688	3.5x1	123	5875	15380	102	200	58	146	122	14	20	13		
63-10B2				64.4	57.91	2.5x2	206	6533	22371	110	228	58	154	130	14	20	13		
63-10B3		12	7.938	64.4	57.91	2.5x3	305	9258	33556	110	288	58	154	130	14	20	13		
63-12B2				64.8	56.688	2.5x2	214	8943	28062	118	260	58	166	141	14	20	13		
80-12B2				81.8	73.688	2.5x2	257	9797	35422	136	260	58	185	159	14	20	13		
80-12B3	80	20	9.525	81.8	73.688	2.5x3	380	13884	53132	136	340	58	185	159	14	20	13		
80-20B2	100			82.2	72.466	2.5x2	338	16485	58851	145	404	66	204	172	18	26	17.5		
100-20B2				102.2	92.466	2.5x2	400	18123	74425	170	404	86	243	205	22	32	21.5		

Remark : Stiffness values listed above are derived from theoretical formula while preload is 10% of dynamic load rating.

P F D W TYPE 2

◀ Standard Product

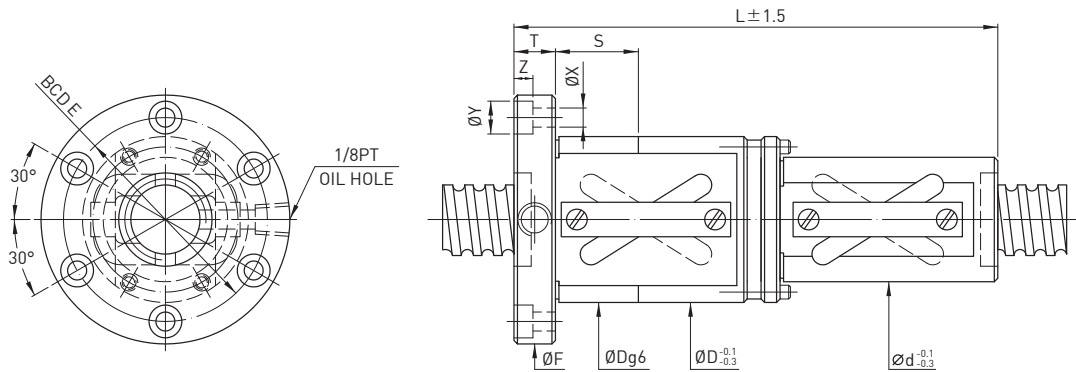


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μ m K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut			Flange			Bolt			Fit
	Nominal Dia.	Lead								D	d	L	F	T	BCD-E	X	Y	Z	
20-20A1	20	20	3.969	20.8	16.744	1.5x1	26	719	1281	48	36	140	72	12	59	5.5	9.5	5.5	24
25-16B1	25	16	4.763	26	21.132	2.5x1	56	1592	3237	62	45	148	89	16	75	6.6	11	6.5	24
25-20B1		20		26	21.132	2.5x1	56	1592	3237	62	45	178	89	16	75	6.6	11	6.5	24
25-25A1		25		26	21.132	1.5x1	32	1019	1927	62	45	166	89	16	75	6.6	11	6.5	24
32-20B1	32	20		33	28.132	2.5x1	66	1810	4227	68	54	181	102	16	84	9	14	8.5	30
32-25B1		25		33	28.132	2.5x1	66	1810	4227	68	54	218	102	16	84	9	14	8.5	30
32-32A1		32		33	28.132	1.5x1	36	1154	2505	68	54	205	102	16	84	9	14	8.5	30
40-25B1	40	25	6.350	41.4	34.91	2.5x1	78	2959	7069	84	65	224	126	18	104	11	17.5	11	30
40-32B1		32		41.4	34.91	2.5x1	78	2959	7069	84	65	276	126	18	104	11	17.5	11	30
40-40A1		40		41.4	34.91	1.5x1	48	1875	4159	84	65	274	126	18	104	11	17.5	11	30
50-40A1	50	40	7.938	51.8	43.688	1.5x1	54	2801	6499	106	82	264	152	22	128	13	20	13	40
50-50A1		50		51.8	43.688	1.5x1	60	2801	6499	106	82	320	152	22	128	13	20	13	40

Remark : Stiffness values listed above are derived from theoretical formula while preload is 10% of dynamic load rating.

P F D W TYPE 2

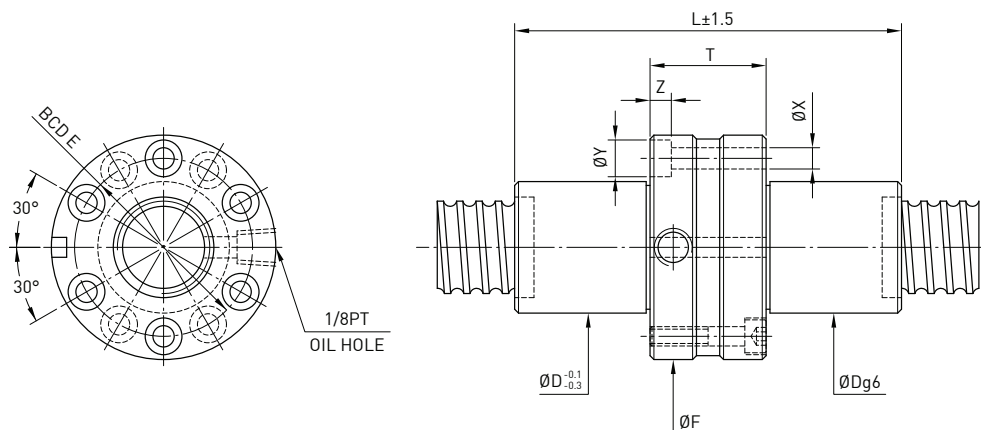
◀ Standard Product



Model	Nominal Dia.	Lead	Circuits	Nut Type	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Ball Dia.	Start type	D	d	L	F	T	BCD-E	X	Y	Z	S
36-20B2	36	20	2.5x2	PFDW	5447	13597	6.35	2	94	76	191	136	18	114	11	17.5	11	30
40-25B2	40	25	2.5x2	PFDW	6743	17002	7.144	2	98	80	230	140	18	118	11	17.5	11	30
40-30B2		30	2.5x2	PFDW	6743	17002	7.144	2	98	80	250	140	18	118	11	17.5	11	30
45-25B2	45	25	2.5x2	PFDW	6991	19186	7.144	2	101	83	230	143	18	121	11	17.5	11	30
45-30B2		30	2.5x2	PFDW	6991	19186	7.144	2	101	83	250	143	18	121	11	17.5	11	30
50-25B2	50	25	2.5x2	PFDW	7033	21370	7.144	2	103	85	230	145	18	123	11	17.5	11	40
50-30B2		30	2.5x2	PFDW	7033	21370	7.144	2	103	85	250	145	18	123	11	17.5	11	40
55-25B2	55	25	2.5x2	PFDW	7518	23553	7.144	2	105	87	230	147	18	125	11	17.5	11	40
55-30B2		30	2.5x2	PFDW	7518	23553	7.144	2	105	87	250	147	18	125	11	17.5	11	40

P F D I TYPE

◀ Standard Product

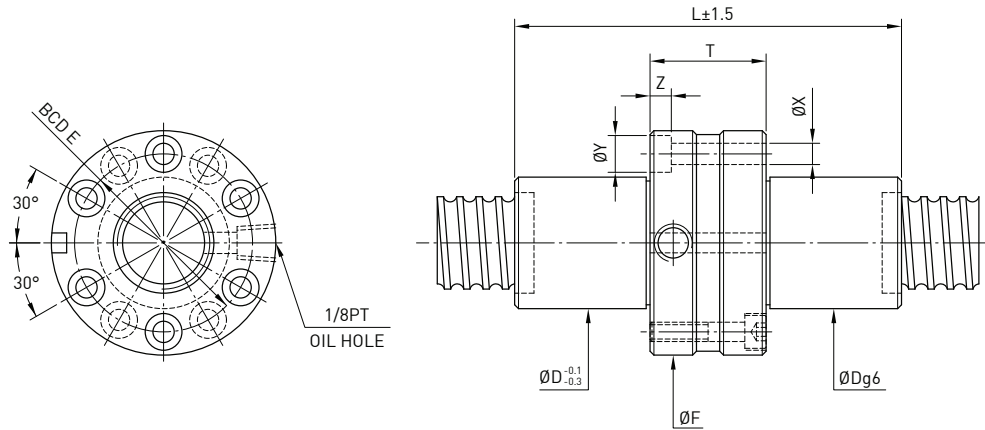


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μ m K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Flange					Bolt		
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z
20-5T3	20	5	3.175	20.6	17.324	3	39	852	1767	34	100	58	30	46	5.5	9.5	5.5
20-5T4				20.6	17.324	4	54	1091	2356	34	110	58	30	46	5.5	9.5	5.5
20-6T3		6	3.969	20.8	16.744	3	39	1091	2081	36	111	58	29	46	5.5	9.5	5.5
20-6T4				20.8	16.744	4	54	1398	2774	36	127	58	29	46	5.5	9.5	5.5
25-5T3	25	5	3.175	25.6	22.324	3	55	977	2314	40	100	63	30	51	5.5	9.5	5.5
25-5T4				25.6	22.324	4	73	1252	3085	40	110	63	30	51	5.5	9.5	5.5
25-6T3		6	3.969	25.8	21.744	3	56	1272	2762	40	111	63	29	51	5.5	9.5	5.5
25-6T4				25.8	21.744	4	75	1628	3682	40	127	63	29	51	5.5	9.5	5.5
32-5T3	32	5	3.175	32.6	29.324	3	64	1117	3081	48	100	75	30	61	6.6	11	6.5
32-5T4				32.6	29.324	4	82	1431	4108	48	110	75	30	61	6.6	11	6.5
32-6T3		6	3.969	32.8	28.744	3	65	1446	3620	50	111	75	29	61	6.6	11	6.5
32-6T4				32.8	28.744	4	84	1852	4826	50	127	75	29	61	6.6	11	6.5
32-8T3		8	4.763	33	28.132	3	68	1810	4227	52	139	84	35	68	9	14	8.5
32-8T4				33	28.132	4	82	2317	5635	52	157	84	35	68	9	14	8.5
32-10T3		10	6.350	33.4	26.91	3	68	2539	5327	56	165	88	35	70	9	14	8.5
32-10T4				33.4	26.91	4	82	3252	7102	56	185	88	35	70	9	14	8.5
40-5T4	40	5	3.175	40.6	37.324	4	99	1599	5280	54	115	90	35	72	9	14	8.5
40-5T6				40.6	37.324	6	146	2265	7919	54	135	90	35	72	9	14	8.5
40-6T4		6	3.969	40.8	36.744	4	100	2136	6420	56	133	90	35	72	9	14	8.5
40-6T6				40.8	36.744	6	148	3028	9630	56	157	90	35	72	9	14	8.5
40-8T4		8	4.763	41	36.132	4	102	2728	7596	60	157	94	35	76	9	14	8.5
40-8T6				41	36.132	6	150	3866	11394	60	191	94	35	76	9	14	8.5
40-10T3		10	6.350	41.4	34.91	3	76	2529	7069	62	175	104	45	82	11	17.5	11
40-10T4				41.4	34.91	4	101	3789	9426	62	195	104	45	82	11	17.5	11
50-5T4	50	5	3.175	50.6	47.324	4	121	1757	6745	65	115	100	35	82	9	14	8.5
50-5T6				50.6	47.324	6	177	2490	10117	65	135	100	35	82	9	14	8.5
50-6T4		6	3.969	50.8	46.744	4	123	2388	8250	68	136	100	38	82	9	14	8.5
50-6T6				50.8	46.744	6	179	3384	12375	68	160	100	38	82	9	14	8.5
50-8T4		8	4.763	51	46.132	4	122	2998	9578	70	165	112	43	90	11	17.5	11
50-8T6				51	46.132	6	178	4249	14367	70	199	112	43	90	11	17.5	11
50-10T3		10	6.350	51.4	44.91	3	95	3397	9256	74	175	114	45	92	11	17.5	11
50-10T4				51.4	44.91	4	124	4350	12341	74	195	114	45	92	11	17.5	11
50-10T6		12	7.938	51.4	44.91	6	184	6165	18511	74	235	114	43	92	11	17.5	11
50-12T3				51.8	43.688	3	94	4420	11047	75	203	121	49	97	14	20	13
50-12T4				51.8	43.688	4	124	5660	14730	75	227	121	49	97	14	20	13

Remark : Stiffness values listed above are derived from theoretical formula while preload is 10% of dynamic load rating.

P F D I TYPE

◀ Standard Product

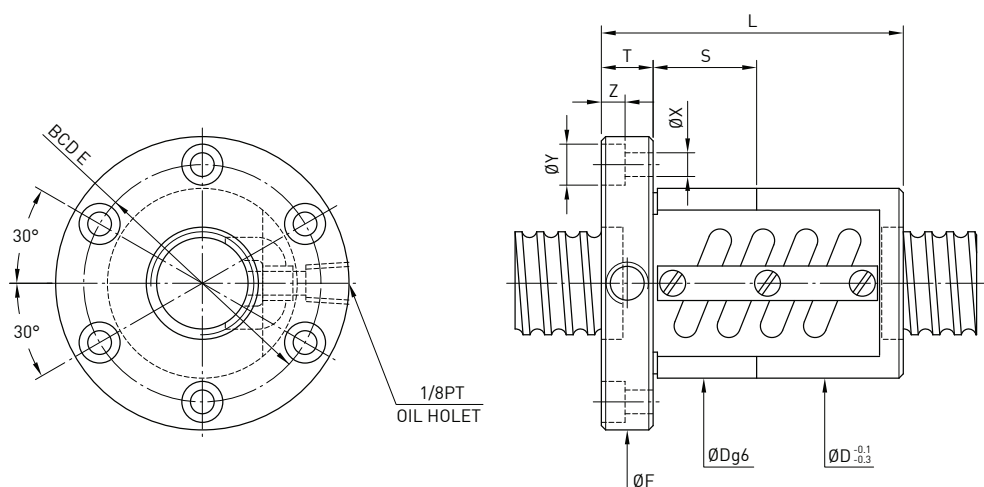


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μ m K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Flange					Bolt		
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z
63-6T4	63	6	3.969	63.8	59.744	4	148	2614	10542	80	142	122	44	100	11	17.5	11
63-6T6				63.8	59.744	6	220	3704	15813	80	166	122	44	100	11	17.5	11
63-8T4		8	4.763	64	59.132	4	152	3395	12541	82	165	124	43	102	11	17.5	11
63-8T6				64	59.132	6	222	4812	18811	82	199	124	43	102	11	17.5	11
63-10T4		10	6.350	64.4	57.91	4	158	4860	15858	85	205	131	55	107	14	20	13
63-10T6				64.4	57.91	6	228	6887	23786	85	245	131	53	107	14	20	13
63-12T4	80	12	7.938	64.8	56.688	4	152	6479	19293	90	230	136	52	112	14	20	13
63-12T6				64.8	56.688	6	224	9182	28939	90	280	136	52	112	14	20	13
80-10T4		10	6.350	81.4	74.91	4	190	5559	21118	105	205	151	55	127	14	20	13
80-10T6				81.4	74.91	6	277	7879	31677	105	245	151	53	127	14	20	13
80-12T4		12	7.938	81.8	73.688	4	192	7430	25681	110	230	156	52	132	14	20	13
80-12T6				81.8	73.688	6	280	10530	38521	110	280	156	52	132	14	20	13
80-20T3	100	20	9.525	82.2	72.466	3	189	9663	31622	115	301	173	65	143	18	26	17.5
80-20T4				82.2	72.466	4	248	12375	42162	115	346	173	66	143	18	26	17.5
100-10T6	100	10	6.350	101.4	94.91	6	236	8662	40469	125	245	171	53	147	14	20	13
100-12T6		12	9.525	102.2	92.466	6	343	19230	79741	130	292	188	64	158	18	26	17.5
100-20T4		20		102.2	92.466	4	300	13569	53161	135	356	205	76	169	22	32	21.5

Remark : Stiffness values listed above are derived from theoretical formula while preload is 10% of dynamic load rating.

O F S W TYPE

◀ Standard Product

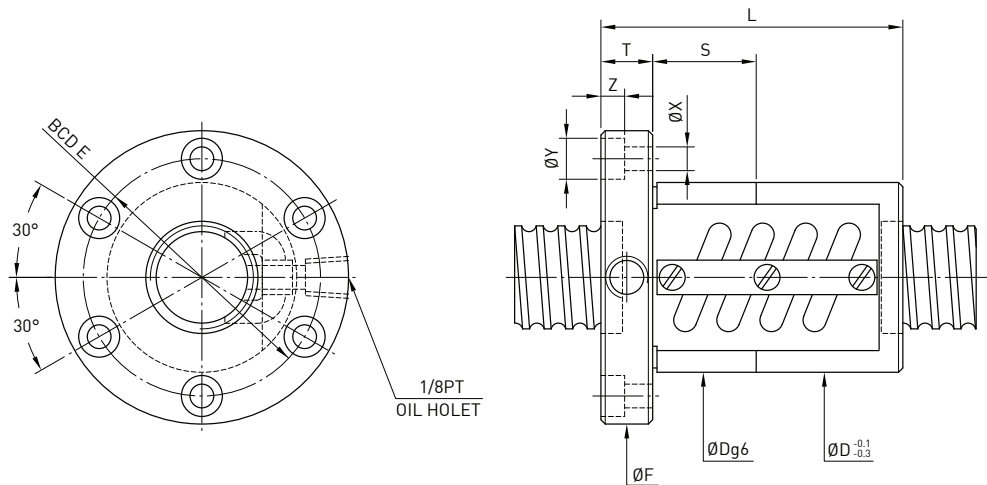


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μm K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut		Flange			Bolt			Fit	
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z		S
16-5B1	16	5	3.175	16.6	13.324	2.5x1	32	763	1400	40	58	64	12	51	5.5	9.5	5.5	24	
16-5A1				16.6	13.324	1.5x1	20	482	820	40	50	64	12	51	5.5	9.5	5.5	24	
20-5B1				20	20.6	17.324	2.5x1	38	837	1733	44	60	68	12	55	5.5	9.5	5.5	24
20-5A2					20.6	17.324	1.5x2	46	979	2079	44	70	68	12	55	5.5	9.5	5.5	24
20-6B1		6	3.969	20.8	16.744	2.5x1	40	1139	2187	48	69	72	12	59	5.5	9.5	5.5	24	
25-4B1	25	4	2.381	25.25	22.792	2.5x1	38	544	1376	46	48	69	12	57	5.5	9.5	5.5	12	
25-4B2				25.25	22.792	2.5x2	74	988	2752	46	72	69	12	57	5.5	9.5	5.5	12	
25-5B1		5	3.175	25.6	22.324	2.5x1	46	939	2209	50	60	74	12	62	5.5	9.5	5.5	24	
25-5A2				25.6	22.324	1.5x2	48	1078	2594	50	70	74	12	62	5.5	9.5	5.5	24	
25-5C1				25.6	22.324	3.5x1	68	1252	3085	50	72	74	12	62	5.5	9.5	5.5	24	
25-6A2		6	3.969	25.8	21.744	1.5x2	56	1462	3249	56	82	82	12	69	6.6	11	6.5	24	
25-6C1				25.8	21.744	3.5x1	66	1690	3844	56	81	82	12	69	6.6	11	6.5	24	
25-10A1		10	4.763	26	21.132	1.5x1	29	1019	1927	60	81	86	16	73	6.6	11	6.5	24	
28-5B1	28	5	3.175	28.6	25.324	2.5x1	51	984	2466	55	60	85	12	69	6.6	11	6.5	24	
28-5B2				28.6	25.324	2.5x2	98	1785	4932	55	96	85	12	69	6.6	11	6.5	24	
28-6A2		6		28.6	25.324	1.5x2	59	1150	2960	55	80	85	12	69	6.6	11	6.5	24	
32-5B1				32.6	29.324	2.5x1	55	1039	2833	58	62	84	12	71	6.6	11	6.5	24	
32-5A2	32	5	3.969	32.6	29.324	1.5x2	65	1216	3400	58	70	84	12	71	6.6	11	6.5	24	
32-5C1				32.6	29.324	3.5x1	76	1388	3967	58	72	84	12	71	6.6	11	6.5	24	
32-6B1	32	6	4.763	32.8	28.744	2.5x1	57	1409	3510	62	70	88	12	75	6.6	11	6.5	24	
32-6A2				32.8	28.744	1.5x2	67	1633	4168	62	81	88	12	75	6.6	11	6.5	24	
32-6C1		32.8		28.744	3.5x1	78	1888	4936	62	83	88	12	75	6.6	11	6.5	24		
32-8B1		8		33	28.132	2.5x1	58	1810	4227	66	92	100	16	82	9	14	8.5	30	
32-8A2	33		28.132	1.5x2	69	2094	5009	66	106	100	16	82	9	14	8.5	30			
32-8C1			33	28.132	3.5x1	82	2428	5948	66	108	100	16	82	9	14	8.5	30		
32-10B1	32	10	6.350	33.4	26.91	2.5x1	58	2651	5600	74	110	108	16	90	9	14	8.5	30	
32-10A1				33.4	26.91	1.5x1	36	1673	3278	74	90	108	16	90	9	14	8.5	30	
32-12A1		12		33.4	26.91	1.5x1	37	1672	3278	74	97	108	18	90	9	14	8.5	15	
32-12B1				33.4	26.91	2.5x1	61	2650	5599	74	117	108	18	90	9	14	8.5	15	

Remark : Stiffness values listed above are derived from theoretical formula while preload is 10% of dynamic load rating.

O F S W TYPE

◀ Standard Product

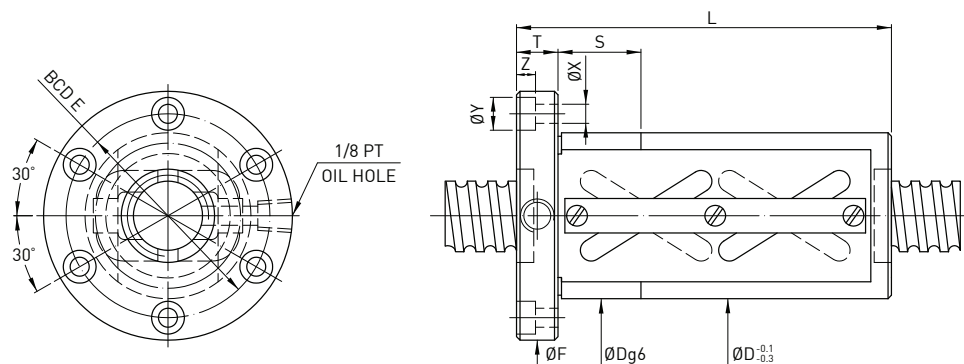


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μm K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut		Flange			Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z	S
36-6B1	36	6	3.175	36.6	33.324	2.5x1	62	1486	3969	65	68	100	12	82	6.6	11	6.5	24
36-6B2				36.6	33.324	2.5x2	121	2696	7937	65	103	100	12	82	6.6	11	6.5	24
36-10A1		10	6.350	37.4	30.91	1.5x1	40	1779	3718	75	90	120	18	98	11	17.5	11	30
36-16B1		16		37.4	30.91	2.5x1	67	2812	6334	74	136	114	18	90	9	14	8.5	15
40-5B1	40	5	3.175	40.6	37.324	2.5x1	65	1141	3567	68	65	102	16	84	9	14	8.5	30
40-5B2				40.6	37.324	2.5x2	132	2071	7134	68	95	102	16	84	9	14	8.5	30
40-6B2		6	3.969	40.8	36.744	2.5x2	136	2817	8855	70	109	104	16	86	9	14	8.5	30
40-8B1				41	36.132	2.5x1	69	2003	5302	74	90	108	16	90	9	14	8.5	30
40-8C1		8	4.763	41	36.132	3.5x1	96	2679	7438	74	108	108	16	90	9	14	8.5	30
40-10B1				41.4	34.91	2.5x1	72	2959	7069	84	110	125	18	104	11	17.5	11	30
40-10C1		10	6.350	41.4	34.91	3.5x1	102	3932	9841	84	132	125	18	104	11	17.5	11	30
40-12B1				41.6	34.299	2.5x1	72	3425	7837	86	117	128	18	106	11	17.5	11	40
40-16A1	45	16	7.144	41.6	34.299	1.5x1	46	2208	4703	86	117	128	18	106	11	17.5	11	40
45-10B1		10	6.350	46.4	39.91	2.5x1	76	3111	7953	88	110	132	18	110	11	17.5	11	30
45-12B1		12	7.938	46.8	38.688	2.5x1	81	4202	9900	96	132	142	22	117	13	20	13	40
50-5A2		5	3.175	50.6	47.324	1.5x2	96	1447	5382	80	74	114	16	96	9	14	8.5	30
50-5A3	50			50.6	47.324	1.5x3	143	2051	8072	80	103	114	16	96	9	14	8.5	30
50-6B2	6	3.969	50.8	46.744	2.5x2	161	3093	11149	84	110	118	16	100	9	14	8.5	30	
50-8B1			51	46.132	2.5x1	81	2206	6705	87	92	128	18	107	11	17.5	11	30	
50-8B2	8	4.763	51	46.132	2.5x2	165	4004	13409	87	140	128	18	107	11	17.5	11	30	
50-10B2			51.4	44.91	2.5x2	173	5923	17670	94	170	135	18	114	11	17.5	11	30	
50-10C1	10	6.350	51.4	44.91	3.5x1	120	4393	12481	94	130	135	18	114	11	17.5	11	30	
50-12B1			51.8	43.688	2.5x1	123	4420	11047	102	132	150	22	125	13	20	13	40	
55-10C1	55	10	6.350	56.4	49.91	3.5x1	132	4562	13661	100	130	140	18	118	11	17.5	11	40
55-12B1		12	7.938	56.8	48.688	2.5x1	128	4624	12195	105	132	154	22	127	13	20	13	40
63-8A2	63	8	4.763	64	59.132	1.5x2	107	2826	10129	104	108	146	18	124	11	17.5	11	40
63-10B2		10	6.350	64.4	57.91	2.5x2	206	6533	22371	110	172	152	20	130	11	17.5	11	40
63-12B1		12	7.938	64.8	56.688	2.5x1	107	4927	14031	118	135	166	22	141	13	20	13	40
63-16B1		16	9.525	65.2	55.466	2.5x1	140	8189	23005	124	158	172	22	147	13	20	13	40
63-20A1	70	20		65.2	55.466	1.5x1	84	5306	13890	124	147	172	22	147	13	20	13	40
70-10B1		10	6.350	71.4	64.91	2.5x1	114	3770	12506	124	112	170	20	145	13	20	13	40
70-12B1		12	7.938	71.8	63.688	2.5x1	118	5169	15638	130	132	178	22	152	13	20	13	40

Remark : Stiffness values listed above are derived from theoretical formula while preload is 10% of dynamic load rating.

O F S W TYPE

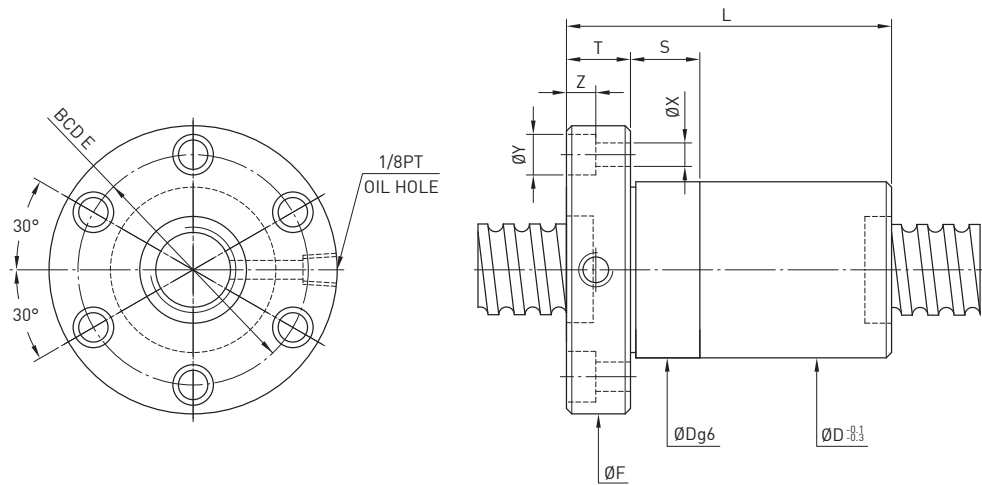
◀ Standard Product



Model	Nominal Dia.	Lead	Circuits	Nut Type	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Ball Dia.	Start type	D	L	F	T	BCD-E	X	Y	Z	S
36-20C1	36	20	3.5x1	OFSW	4478	10201	6.35	2	94	121	136	18	114	11	17.5	11	30
40-20C1	40	20	3.5x1	OFSW	4810	11367	6.35	2	96	121	138	18	116	11	17.5	11	30
40-20B2		20	2.5x2	OFSW	6537	16238	6.35	2	96	161	138	18	116	11	17.5	11	30
45-20C1		20	3.5x1	OFSW	4845	12823	6.35	2	98	122	140	18	118	11	17.5	11	30
45-20B2	45	20	2.5x2	OFSW	6585	18318	6.35	2	98	162	140	18	118	11	17.5	11	30
45-25C1		25	3.5x1	OFSW	5501	19186	7.144	2	101	141	143	18	121	11	17.5	11	30
50-20C1		20	3.5x1	OFSW	5027	14278	6.35	2	101	122	143	18	121	11	17.5	11	40
50-20B2	50	20	2.5x2	OFSW	6831	20397	6.35	2	101	162	143	18	121	11	17.5	11	40
50-25C1		25	3.5x1	OFSW	5782	16033	7.144	2	103	141	145	18	123	11	17.5	11	40
50-30C1		30	3.5x1	OFSW	5782	16033	7.144	2	103	160	145	18	123	11	17.5	11	40
55-20C1		20	3.5x1	OFSW	5158	15733	6.35	2	103	122	145	18	123	11	17.5	11	40
55-20B2	55	20	2.5x2	OFSW	7009	22476	6.35	2	103	162	145	18	123	11	17.5	11	40
55-25C1		25	3.5x1	OFSW	6181	17670	7.144	2	105	141	147	18	125	11	17.5	11	40
55-30C1		30	3.5x1	OFSW	6181	17670	7.144	2	105	160	147	18	125	11	17.5	11	40

O F S I TYPE

◀ Standard Product

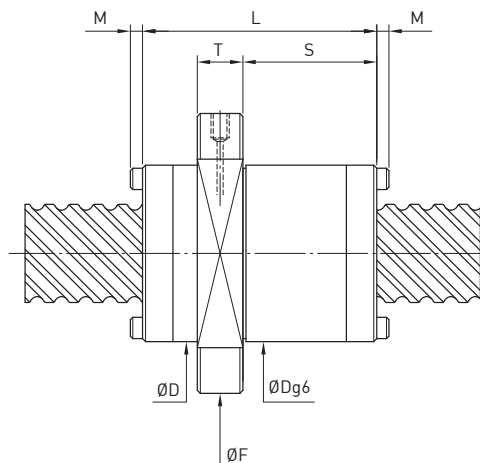
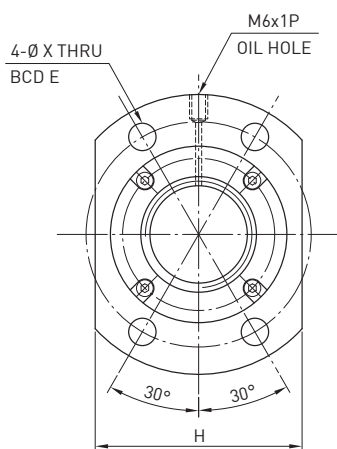


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μm K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut		Flange			Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z	S
20-5T3	20	5	3.175	20.6	17.324	3x2	39	852	1767	34	67	57	12	45	5.5	9.5	5.5	24
20-6T3		6	3.969	20.8	16.744	3x2	39	1091	2081	36	77	60	12	48	5.5	9.5	5.5	24
25-5T3	25	5	3.175	25.6	22.324	3x2	55	977	2314	40	67	64	12	52	5.5	9.5	5.5	24
25-6T3		6	3.969	25.8	21.744	3x2	56	1272	2762	42	77	65	12	53	5.5	9.5	5.5	24
32-5T3	32	5	3.175	32.6	29.324	3x2	64	1117	3081	48	67	74	12	60	6.5	11	6.5	24
32-5T4				32.6	29.324	4x2	82	1431	4108	48	77	74	12	60	6.5	11	6.5	24
32-6T3		6	3.969	32.8	28.744	3x2	65	1446	3620	50	67	76	12	62	6.5	11	6.5	24
32-6T4				32.8	28.744	4x2	84	1852	4826	50	90	76	12	62	6.5	11	6.5	24
32-8T3		8	4.763	33	28.132	3x2	68	1810	4227	52	100	78	16	64	6.6	11	6.5	24
32-8T4				33	28.132	4x2	82	2317	5635	52	117	78	16	64	6.6	11	6.5	24
32-10T3		10	6.350	33.4	26.91	3x2	68	2539	5327	56	120	82	16	68	6.6	11	6.5	24
36-8T4				36	8	4.763	37	32.132	4	88	2531	6614	56	116	86	15	70	9
40-5T4	40	5	3.175	40.6	37.324	4x2	99	1599	5280	54	81	80	16	66	6.6	11	6.5	24
40-5T6				40.6	37.324	6x2	146	2265	7919	54	102	80	16	66	6.6	11	6.5	24
40-6T4		6	3.969	40.8	36.744	4x2	100	2136	6420	56	94	88	16	72	9	14	8.5	30
40-6T6				40.8	36.744	6x2	148	3028	9630	56	119	88	16	72	9	14	8.5	30
40-8T4		8	4.763	41	36.132	4x2	102	2728	7596	60	117	92	16	75	9	14	8.5	30
40-10T3				41.4	34.91	3x2	76	2959	7069	65	123	96	16	80	9	14	8.5	30
40-10T4		10	6.350	41.4	34.91	4x2	101	3789	9426	65	143	96	16	80	9	14	8.5	30
50-5T4				50	5	3.175	50.6	47.324	4x2	121	1757	6745	65	81	96	16	80	9
50-5T6	50.6	47.324	6x2				177	2490	10117	65	102	96	16	80	9	14	8.5	30
50-6T4	6	3.969	50.8		46.744	4x2	123	2388	8250	68	94	100	16	84	9	14	8.5	30
50-6T6			50.8		46.744	6x2	179	3384	12375	68	119	100	16	84	9	14	8.5	30
50-8T4	8	4.763	51		46.132	4x2	122	2998	9578	70	120	102	16	85	9	14	8.8	30
50-10T3			51.4		44.91	3x2	95	3397	9256	74	123	114	18	92	11	17.5	11	40
50-10T4	10	6.350	51.4		44.91	4x2	124	4350	12341	74	143	114	18	92	11	17.5	11	40
50-12T3			12		7.938	51.8	43.688	3x2	94	4420	11047	78	147	118	18	96	11	17.5
63-6T4	63	6	3.969	63.8	59.744	4x2	148	2614	10542	80	96	119	18	98	11	17.5	11	40
63-6T3				63.8	59.744	3x2	220	3704	15813	80	121	119	18	98	11	17.5	11	40
63-8T4		8	4.763	64	59.132	4x2	152	3395	12541	82	119	122	18	100	11	17.5	11	40
63-10T4				10	6.350	64.4	57.91	4x2	158	4860	15858	88	147	134	20	110	14	20
63-12T3		12	7.938	64.8	56.688	3x2	114	5059	14470	92	150	138	20	114	14	20	13	40

Remark : Stiffness values listed above are derived from theoretical formula while preload is 10% of dynamic load rating.

F S H TYPE

◀ High Lead

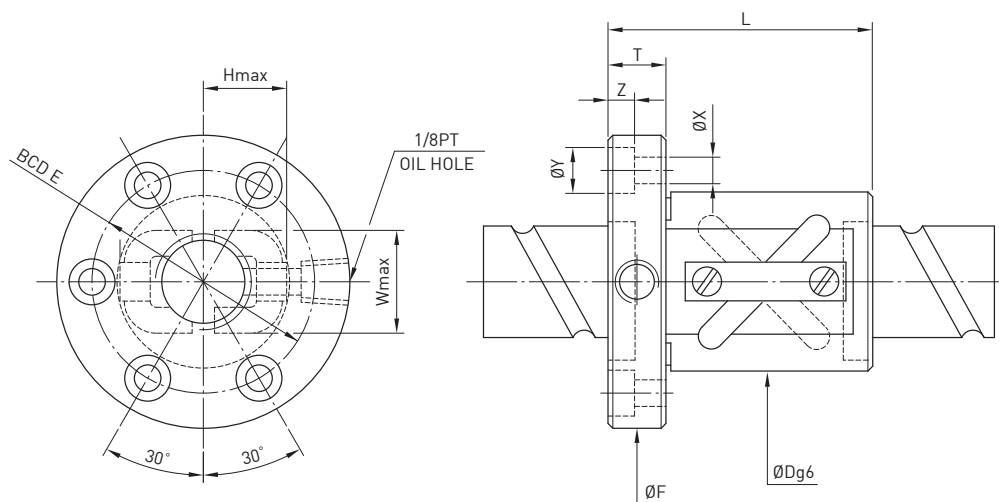


Model	Size		Ball Dia.	PCD	RD	Circuits	Stiffness kgf / μm K	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut		Flange				Bolt	Fit	
	Nominal Dia.	Lead								D	L	F	T	BCD-E	H	X	S	M
15-20S1	15	20	3.175	15.6	12.324	1.8x1	18	540	1030	34	45	55	10	45	36	5.5	24	0
16-16S2	16	16		16.6	13.324	1.8x2	35	1060	2280	32	48	53	10	42	38	4.5	26	0
16-16S4				16.6	13.324	1.8x4	68	1930	4560	33	48	58	10	45	38	6.6	26	0
16-16S2				16.6	13.324	1.8x2	35	1060	2280									
16-16S4				16.6	13.324	1.8x4	68	1930	4560									
20-20S2	20	20		20.6	17.324	1.8x2	42	1180	2860	39	48	62	10	50	46	5.5	27.5	0
20-20S2			20.6	17.324	1.8x2	42	1180	2860	38	58	62	10	50	46	5.5	32.5	3	
20-20S4			20.6	17.324	1.8x4	81	2150	5720										
25-25S2	25	25	3.969	25.8	21.744	1.8x2	53	1770	4470	47	67	74	12	60	56	6.6	39.5	3
25-25S4			25.8	21.744	1.8x4	105	3220	8940										
32-32S2	32	32	4.763	33	28.132	1.8x2	66	2510	6770	58	85	92	15	74	68	9	48	0
32-32S4			33	28.132	1.8x4	128	4550	13540										
40-40S2	40	40	6.350	41.4	34.91	1.8x2	82	4130	11450	72	102	114	17	93	84	11	60	0
40-40S4			41.4	34.91	1.8x4	159	7500	22910										
50-50S2	50	50	7.938	51.8	43.688	1.8x2	100	6170	17900	90	125	135	20	112	104	14	83.5	0
50-50S4			51.8	43.688	1.8x4	193	11210	35800										

Remark : Stiffness values listed above are derived from theoretical formula while preload is 5% of dynamic load rating.

D F S V TYPE

◀ High Lead



Model	Size		Ball Dia.	PCD	RD	Circuits	Dynamic Load 1x10 ⁶ revs C (kgf)	Static Load Co (kgf)	Nut		Flange			Return Tube		Bolt		
	Nominal Dia.	Lead							D	L	F	T	BCD-E	W	H	X	Y	Z
16-16A2	16	16	3.175	16.6	13.324	1.5x2	704	1376	32	60	55	12	43	22	22	5.5	9.5	5.5
20-20A2	20	20		20.6	17.324	1.5x2	793	1745	36	69	60	12	47	28	27	5.5	9.5	5.5
25-25A2	25	25	3.969	25.8	21.744	1.5x2	1174	2730	42	69	70	12	55	32	28	6.6	11	6.5
32-32A2	32	32	4.763	33	28.132	1.5x2	1682	4208	54	94	100	15	80	40	37	9	14	8.5
40-40A2	40	40	6.350	41.4	34.91	1.5x2	2806	7222	65	115	106	18	85	52	42	11	17.5	11