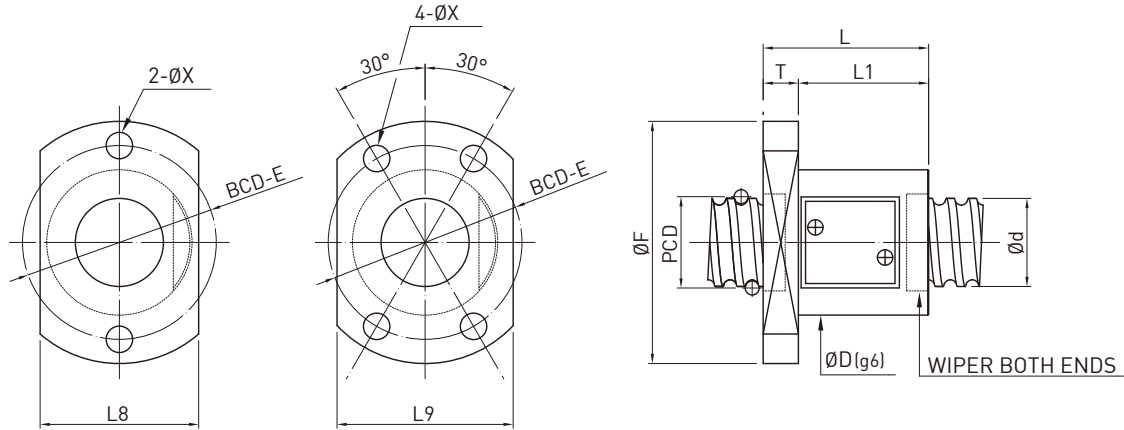


6.2 Dimensions for Precision Ground Ballscrews

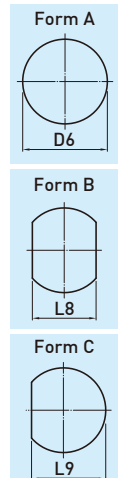
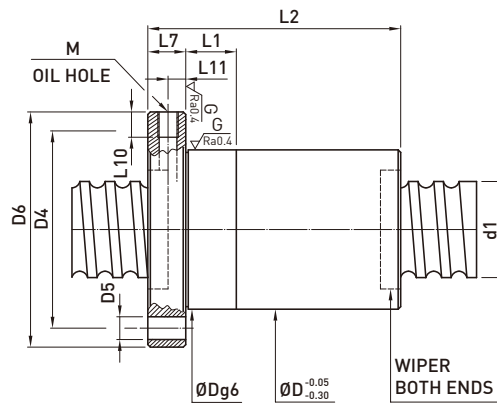
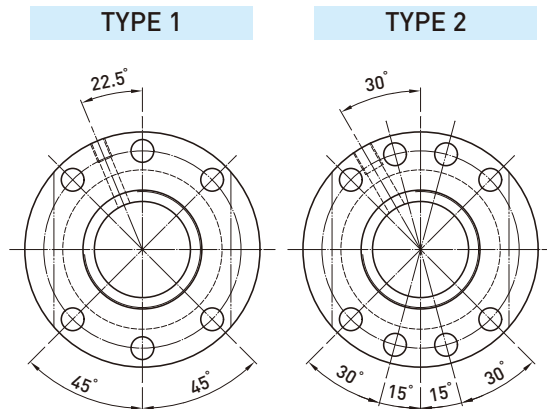
FSZ Type ◀ Standard Product



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut			Flange					Bolt
	Nominal Dia.	Lead								D	L	L1	F	T	BCD-E	L8	L9	
6-2B1	6	2	6.2	4.638	1.5	2.6x1	9	220	340	15	20	16	29	4	23	17	18	3.4
8-2B1	8	2	8.2	6.638	1.5	2.6x1	11.9	250	460	16	20	16	31	4	24	18	18	3.4
9-3D1	9	3	9.2	7.136	2	4.6x1	23.9	620	1190	20	33	27	38	6	29	22	29	4.5
10-2B1	10	2	10.2	8.638	1.5	2.6x1	14	280	580	18	24.5	19.5	34	5	26	19	21	4.5
10-2.5B1	10	2.5	10.2	8.136	2	2.6x1	15.5	410	770	20	23	18	37	5	29	21	22	4.5
10-2.5C1	10	2.5	10.2	8.136	2	3.6x1	21.3	550	1070	20	25	20	37	5	29	21	22	4.5
10-3.6D1	10	3.6	10.25	7.792	2.381	4.6x1	27.2	820	1550	25	36	30	46	6	36	28	28	5.5
10-4B1	10	4	10.25	7.792	2.381	2.6x1	15.2	500	870	21	30	25	38	5	29	21	22	4.5
12-4B1	12	4	12.25	9.792	2.381	2.6x1	18.6	570	1100	22.5	30	25	40	5	32	22	24	4.5
12-4C1	12	4	12.25	9.792	2.381	3.6x1	25.4	750	1520	22.5	34	29	40	5	32	22	24	4.5
12-5B1	12	5	12.25	9.792	2.381	2.6x1	18.7	560	1090	22.5	33	27	40	6	32	27	27	4.5
14-4B1	14	4	14.25	11.792	2.381	2.6x1	20.3	600	1250	24.5	29	23	46	6	35	26	27	5.5
14-4C1	14	4	14.25	11.792	2.381	3.6x1	27.8	800	1730	24.5	33	27	46	6	35	26	27	5.5
16-2B1	16	2	16.2	14.638	1.5	2.6x1	18.6	340	940	23.5	24	18	45	6	34	26	27	5.5
16-5B1	16	5	16.6	13.324	3.175	2.6x1	24.1	950	1960	29	34	28	49	6	38	30	30	5.5
16-5C1	16	5	16.6	13.324	3.175	3.6x1	33	1260	2710	29	39	33	49	6	38	30	30	5.5
20-4B1	20	4	20.25	17.792	2.381	2.6x1	26.5	720	1850	30.5	34	24	58	10	47	44	44	5.5
20-4C1	20	4	20.25	17.792	2.381	3.6x1	36.1	950	2560	30.5	38	28	58	10	47	44	44	5.5
25-4B1	25	4	25.25	22.792	2.381	2.6x1	30.8	800	2370	35.5	34	24	58	10	47	44	44	6.6
25-4C1	25	4	25.25	22.792	2.381	3.6x1	42.1	1060	3280	35.5	38	28	58	10	47	44	44	6.6
32-4B1	32	4	32.25	29.792	2.381	2.6x1	35.2	880	3040	42.5	34	24	80	12	65	62	62	9
32-4C1	32	4	32.25	29.792	2.381	3.6x1	48.2	1170	4210	42.5	38	28	80	12	65	62	62	9

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

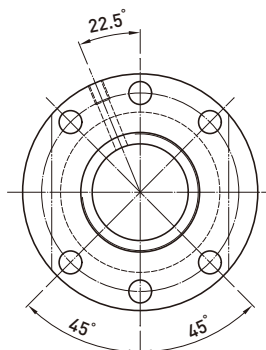
FSC Type ◀ Standard Product



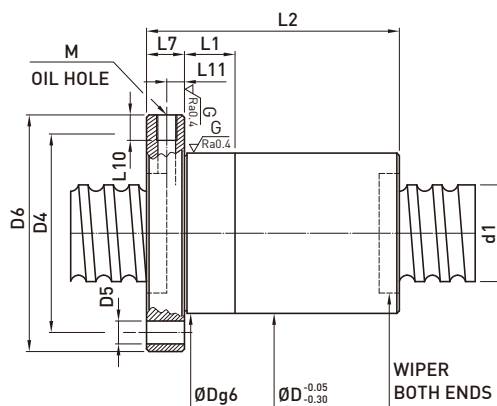
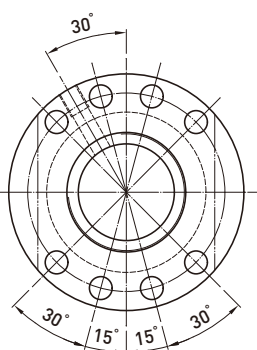
Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C(kgf)	Static Load Co(kgkf)	Nut				Flange				Oil Hole			Double Starts	Incom- plete Thread		
	Nominal Dia.	Lead								D	L1	L2	TYPE	Form A(D6)	Form B(L8)	Form C(L9)	L7	D4	D5	M			L10	L11
14-10K3	14	10	14.6	10.724	3.175	3	24	920	1790	28	10	46	1	48	40	44	10	38	5.5	M5×0.8P	6	5		
15-10K3	15	10	16	12.869	3	3	26	930	1970	28	10	45	1	48	40	44	10	38	5.5	M5×0.8P	6	5		
15-16K2	15	16	16	12.869	3	2	16	610	1230	28	10	45	1	48	40	44	10	38	5.5	M5×0.8P	6	5		
15-10K3	15	10	15.6	12.324	3.175	3	25	960	1930	34	10	44	1	57	43	50	10	45	5.5	M5×0.8P	6	5		
15-20K2	15	20	15.6	12.324	3.175	2	15	630	1256	34	10	50	1	57	43	50	10	45	5.5	M5×0.8P	6	5		
16-16K2	16	16	16.4	13.124	3.175	2	17	680	1385	34	10	47	1	57	43	50	10	45	5.5	M5×0.8P	6	5		●
20-10K4	20	10	21	17.868	3	4	43	1390	3560	34	10	55	1	57	43	50	10	45	5.5	M5×0.8P	6	5		
20-5K4	20	5	20.6	17.324	3.175	4	42	1490	3640	36	10	40	1	58	44	51	10	47	6.6	M6×1P	8	5		
20-10K3	20	10	20.6	17.324	3.175	3	32	1130	2660	36	10	47	1	58	44	51	10	47	6.6	M6×1P	8	5		
20-20K2	20	20	20.6	17.324	3.175	2	21	760	1730	36	10	57	1	58	44	51	10	47	6.6	M6×1P	8	5	●	
20-6K5	20	6	20.8	16.744	3.969	5	58	2420	5660	42	10	49	1	64	50	57	10	53	6.6	M6×1P	8	5		●
20-8K5	20	8	21	16.132	4.763	5	58	2960	6505	45	10	64	1	65	51	58	10	54	6.6	M6×1P	8	5		●
25-5K4	25	5	25.6	22.324	3.175	4	49	1650	4612	40	10	43	1	62	48	55	10	51	6.6	M6×1P	8	5		
25-10K3	25	10	25.6	22.324	3.175	3	38	1260	3370	40	10	50	1	62	48	55	10	51	6.6	M6×1P	8	5		
25-15K5	25	15	25.6	22.324	3.175	5	63	1980	5730	40	10	90	1	62	48	55	10	51	6.6	M6×1P	8	5		
25-20K3	25	20	25.6	22.324	3.175	3	39	1260	3436	40	10	80	1	62	48	55	10	51	6.6	M6×1P	8	5	●	
25-25K2	25	25	25.6	22.324	3.175	2	25	840	2170	40	10	69	1	62	48	55	10	51	6.6	M6×1P	8	5	●	
25-6K5	25	6	25.8	21.744	3.969	5	68	2720	7192	45	10	50	1	65	51	58	10	54	6.6	M6×1P	8	5		
25-8K5	25	8	25.8	21.744	3.969	5	70	2710	7170	48	10	62	1	68	54	61	10	57	6.6	M6×1P	8	5		
25-10K4	25	10	25.8	21.744	3.969	4	56	2210	5660	45	10	60	1	65	51	58	10	54	6.6	M6×1P	8	5		
25-12K4	25	12	25.8	21.744	3.969	4	56	2200	5640	45	10	67	1	65	51	58	10	54	6.6	M6×1P	8	5		●
25-16K3	25	16	25.8	21.744	3.969	3	42	1670	4127	45	10	71	1	65	51	58	10	54	6.6	M6×1P	8	5		●
25-20K3	25	20	25.8	21.744	3.969	3	43	1710	4290	45	10	80	1	65	51	58	10	54	6.6	M6×1P	8	5		
25-8K5	25	8	26	21.132	4.763	5	72	3480	8683	50	10	64	1	70	56	64	10	60	6.6	M6×1P	8	5		●
28-6K5	28	6	28.8	24.744	3.969	5	74	2840	7966	50	10	49	1	80	62	71	12	65	6.6	M6×1P	8	6		●
28-8K5	28	8	29	24.132	4.763	5	79	3690	9780	50	10	62	1	80	62	71	12	65	6.6	M6×1P	8	6		●
28-10K5	28	10	29	24.132	4.763	5	80	3680	9760	52	10	72	1	80	62	71	12	65	6.6	M6×1P	8	6		●
28-16K4	28	16	29	24.132	4.763	4	64	2970	7661	50	10	92	1	80	62	71	12	65	6.6	M6×1P	8	6	●	●
32-5K4	32	5	32.6	29.324	3.175	4	57	1840	5960	48	10	38	1	70	54	62	12	59	6.6	M6×1P	8	6		●
32-5.08K4	32	5.08	32.6	29.324	3.175	4	57	1840	5960	48	10	39	1	70	54	62	12	59	6.6	M6×1P	8	6		●
32-6K5	32	6	32.8	28.744	3.969	5	83	3090	9480	56	10	48	1	86	65	75.5	12	71	6.6	M6×1P	8	6		●
32-8K5	32	8	32.8	28.744	3.969	5	85	3080	9430	53	10	59	1	83	62	72.5	12	68	6.6	M6×1P	8	6		
32-8K5	32	8	32.8	28.744	3.969	5	84	3080	9460	50	10	59	1	80	62	71	12	65	9	M6×1P	8	6		
32-10K5	32	10	32.8	28.744	3.969	5	85	3080	9450	50	10	73	1	80	62	71	12	65	9	M6×1P	8	6		
32-15K4	32	15	32.8	28.744	3.969	4	69	2500	7440	50	10	90	1	80	62	71	12	65	9	M6×1P	8	6	●	
32-20K3	32	20	32.8	28.744	3.969	3	52	1900	5430	50	20	87	1	80	62	71	12	65	9	M6×1P	8	6		
32-32K2	32	32	32.8	28.744	3.969	2	34	1280	3530	50	20	87	1	80	62	71	12	65	9	M6×1P	8	6	●	
32-40K2	32	40	32.8	28.744	3.969	2	32	1240	3440	50	20	94	1	80	62	71	12	65	9	M6×1P	8	6	●	
32-8K5	32	8	33	28.132	4.763	5	84	3860	10914	55	10	64	1	86	65	75.5	14	71	9	M6×1P	8	7		●
32-10K5	32	10	33	28.132	4.763	5	86	3850	10890	56	10	79	1	86	65	75.5	14	71	9	M6×1P	8	7		
32-12K5	32	12	33	28.132	4.763	5	87	3840	10870	56	20	88	1	86	65	75.5	14	71	9	M6×1P	8	7		
32-20K4	32	20	33	28.132	4.763	4	72	3190	8914	54	20	106	1	86	65	75.5	14	71	9	M6×1P	8	7	●	●
32-25K3	32	25	33	28.132	4.763	3	53	2420	6500	54	20	97	1	86	65	75.5	14	71	9	M6×1P	8	7	●	●
32-32K2	32	32	33	28.132	4.763	2	34	1620	4100	54	20	88	1	86	65	75.5	14	71	9	M6×1P	8	7	●	●
32-10K5	32	10	33.4	26.91	6.35	5	90	5640	14480	62	10	77	1	92	74	83	14	77	9	M6×1P	8	7		●
32-12K5	32	12	33.4	26.91	6.35	5	90	5620	14450	62	20	87	1	92	74	83	14	77	9	M6×1P	8	7		●
32-16K4	32	16	33.4	26.91	6.35	4	73	4570	11390	62	20	92	1	92	74	83	14	77	9	M6×1P	8	7		●
32-20K4	32	20	33.4	26.91	6.35	4	70	4240	10854	57	20	107	1	87	66	78	14	72	9	M6×1P	8	7		
36-6K5	36	6	36.8	32.744	3.969	5	88	3240	10632	56	10	51	2	86	65	77	14	71	9	M6×1P	8	7		●
36-10K5	36	10	37.4	30.91	6.35	5	98	6010	16440	66	20	80	2	96	73	84.5	14	81	9	M8×1P	10	7		●
36-12K5	36	12	37.4	30.91	6.35	5	99	5990	16420	66	20	87	2	96	73	84.5	14	81	9	M8×1P	10	7		
36-16K5	36	16	37.4	30.91	6.35	5	100	5960	16350	66	20	109	2	96	73	84.5	14	81	9	M8×1P	10	7		●
36-20K4	36	20	37.4	30.91	6.35	4	80	4840	12880	65	20	108	2	95	72	83.5	14	80	9	M8×1P	10	7	●	●
36-20K4	36	20	37.4	30.91	6.35	4	79	4840	12880	61	20	108	2	91	68	79.5	14	76	9	M8×1P	10	7		
36-36K2	36	36	37.4	30.91	6.35	2	39	2540	6240	61	20	95	2	91	68	79.5	14	76	9	M8×1P	10	7	●	
38-8K5	38	8	39	34.132	4.763	5	96	4190	13110	61	20	64	2	91	68	79.5	14	76	9	M8×1P	10	7		●
38-10K4	38	10	39.4	32.91	6.35	4	81	5050	1379															

FSC Type ◀ Standard Product

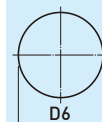
TYPE 1



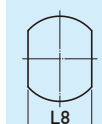
TYPE 2



Form A



Form B

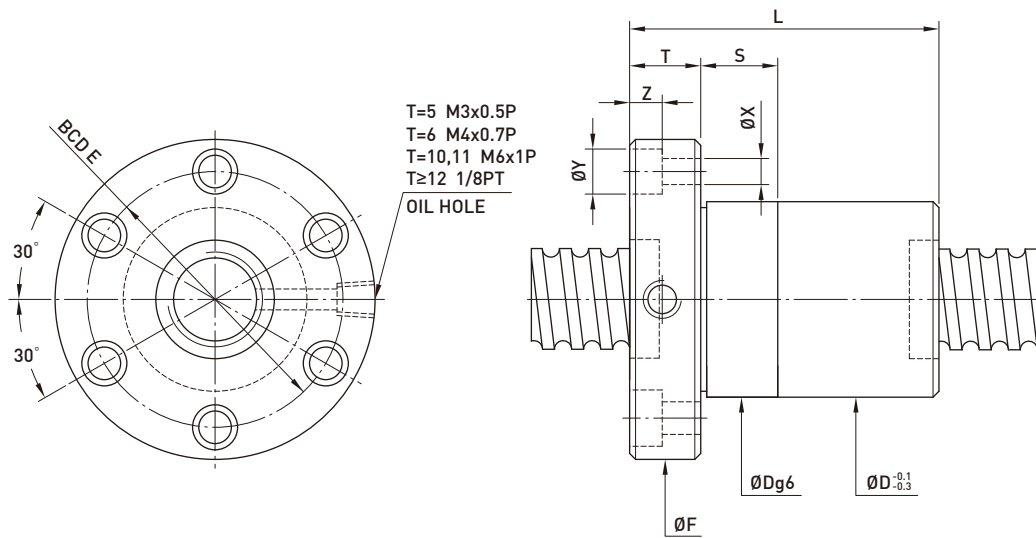


Form C



Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness 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	L11
40-5K5	40	5	40.6	37.324	3.175	5	85	2470	9490	63	20	45	2	93	70	81.5	14	78	9	M8×1P	10	7		
40-6K5	40	6	40.8	36.744	3.969	5	95	3370	11780	63	20	52	2	93	70	81.5	14	78	9	M8×1P	10	7		
40-8K5	40	8	41	36.132	4.763	5	101	4360	14200	63	20	68	2	93	70	81.5	14	78	9	M8×1P	10	7		●
40-10K5	40	10	41	36.132	4.763	5	102	4350	14180	61	20	80	2	91	68	79.5	14	76	9	M8×1P	10	7		
40-20K4	40	20	41	36.132	4.763	4	84	3520	11130	61	20	110	2	91	68	79.5	14	76	9	M8×1P	10	7		
40-16K5	40	16	41.2	35.522	5.556	5	107	5170	15510	68	20	108	2	98	75	86.5	14	83	9	M8×1P	10	7		
40-10K5	40	10	41.4	34.91	6.35	5	106	6340	18400	70	20	83	2	100	75	87.5	14	85	9	M8×1P	10	7		●
40-12K5	40	12	41.4	34.91	6.35	5	108	6330	18380	70	20	86	2	100	75	87.5	14	85	9	M8×1P	10	7		●
40-16K5	40	16	41.4	34.91	6.35	5	109	6300	18320	70	20	108	2	100	75	87.5	14	85	9	M8×1P	10	7		●
40-20K4	40	20	41.4	34.91	6.35	4	87	5130	14440	70	20	110	2	100	75	87.5	14	85	9	M8×1P	10	7	●	
40-30K3	40	30	41.4	34.91	6.35	3	67	4000	11010	70	20	117	2	100	75	87.5	14	85	9	M8×1P	10	7	●	●
40-25K4	40	25	41.4	34.91	6.35	4	86	5080	14350	65	25	127	2	95	72	83.5	14	80	9	M8×1P	10	7	●	●
40-40K2	40	40	41.4	34.91	6.35	2	42	2660	6940	65	25	101	2	95	72	83.5	14	80	9	M8×1P	10	7	●	
40-12K5	40	12	41.6	34.299	7.144	5	110	7430	20790	75	20	90	2	110	85	97.5	14	93	9	M8×1P	10	7		●
40-16K5	40	16	41.6	34.299	7.144	5	112	7400	20720	75	20	109	2	110	85	97.5	14	93	9	M8×1P	10	7		●
45-8K5	45	8	46	41.132	4.763	5	109	4550	15860	70	20	66	2	105	80	92.5	16	90	11	M8×1P	10	8		●
45-10K5	45	10	46.4	39.91	6.35	5	118	6810	21320	75	20	78	2	110	85	97.5	16	93	11	M8×1P	10	8		●
45-12K5	45	12	46.4	39.91	6.35	5	119	6800	21290	75	20	89	2	110	85	97.5	16	93	11	M8×1P	10	8		●
45-16K5	45	16	46.4	39.91	6.35	5	121	6780	21240	75	20	108	2	110	85	97.5	16	93	11	M8×1P	10	8		
45-20K4	45	20	46.4	39.91	6.35	4	98	5520	16760	75	25	108	2	110	85	97.5	16	93	11	M8×1P	10	8	●	
45-25K4	45	25	46.4	39.91	6.35	4	98	5480	16670	75	25	129	2	110	85	97.5	16	93	11	M8×1P	10	8	●	
45-40K3	45	40	46.4	39.91	6.35	3	71	4100	12020	75	25	145	2	110	85	97.5	16	93	11	M8×1P	10	8	●	
45-12K5	45	12	46.6	39.299	7.144	5	119	7830	23290	80	20	88	2	117	92	104.5	16	100	11	M8×1P	10	8		●
45-16K5	45	16	46.6	39.299	7.144	5	120	7810	23230	80	20	119	2	117	92	104.5	16	100	11	M8×1P	10	8		
45-20K4	45	20	46.6	39.299	7.144	4	97	6360	18330	80	25	113	2	117	92	104.5	16	100	11	M8×1P	10	8		
50-5K5	50	5	50.6	47.324	3.175	5	95	2700	11940	70	20	45	2	100	75	87.5	16	85	11	M8×1P	10	8		
50-8K5	50	8	51	46.132	4.763	5	116	4730	17530	75	20	74	2	110	85	97.5	16	93	11	M8×1P	10	8		●
50-10K5	50	10	51.4	44.91	6.35	5	125	7050	23300	82	25	80	2	118	92	105	16	100	11	M8×1P	10	8		
50-12K5	50	12	51.4	44.91	6.35	5	127	7040	23280	82	25	90	2	118	92	105	16	100	11	M8×1P	10	8		●
50-15K5	50	15	51.4	44.91	6.35	5	129	7030	23250	82	25	104	2	118	92	105	16	100	11	M8×1P	10	8		
50-16K5	50	16	51.4	44.91	6.35	5	129	7020	23230	82	25	109	2	118	92	105	16	100	11	M8×1P	10	8		●
50-20K4	50	20	51.4	44.91	6.35	4	104	5720	18340	82	25	106	2	118	92	105	16	100	11	M8×1P	10	8	●	
50-25K4	50	25	51.4	44.91	6.35	4	104	5690	18260	75	25	129	2	110	85	97.5	16	93	11	M8×1P	10	8	●	
50-30K4	50	30	51.4	44.91	6.35	4	104	5650	18170	75	25	147	2	110	85	97.5	16	93	11	M8×1P	10	8	●	
50-35K3	50	35	51.4	44.91	6.35	3	80	4430	13840	75	25	133	2	110	85	97.5	16	93	11	M8×1P	10	8	●	
50-40K3	50	40	51.4	44.91	6.35	3	79	4390	13750	75	25	145	2	110	85	97.5	16	93	11	M8×1P	10	8	●	
50-30K2	50	30	51.6	44.299	7.144	2	53	3560	9960	82	25	92	2	118	92	105	16	100	11	M8×1P	10	8	●	●
50-12K5	50	12	51.8	43.688	7.938	5	130	9480	28776	85	25	97	2	121	95	108	16	103	11	M8×1P	10	8		●
50-16K5	50	16	51.8	43.688	7.938	5	132	9450	28710	85	25	112	2	121	95	108	16	103	11	M8×1P	10	8		●
50-20K5	50	20	51.8	43.688	7.938	5	134	9420	28630	85	25	138	2	121	95	108	16	103	11	M8×1P	10	8		●
50-50K2	50	50	51.8	43.688	7.938	2	52	3980	10860	85	25	124	2	121	95	108	16	103	11	M8×1P	10	8		
50-20K4	50	20	52.2	42.466	9.525	4	113	9870	27420	86	25	120	2	121	95	108	16	103	11	M8×1P	10	8		
55-16K5	55	16	56.4	49.91	6.35	5	139	7420	26157	82	25	104	2	118	92	105	20	100	13.5	M8×1P	10	10		●
63-10K5	63	10	64.4	57.91	6.35	5	144	7720	29190	95	25	84	2	135	100	117.5	20	115	13.5	M8×1P	10	10		●
63-12K5	63	12	64.4	57.91	6.35	5	147	7720	29180	95	25	94	2	135	100	117.5	20	115	13.5	M8×1P	10	10		●
63-20K5	63	20	64.4	57.91	6.35	5	157	7850	30020	95	25	132	2	135	100	117.5	20	115	13.5	M8×1P	10	10		●
63-40K2	63	40	64.4	57.91	6.35	2	62	3310	11100	95	25	110	2	135	100	117.5	20	115	13.5	M8×1P	10	10	●	
63-12K5	63	12	64.8	56.688	7.938	5	152	10520	36440	98	25	94	2	138	103	120.5	20	118	13.5	M8×1P	10	10		●
63-16K4	63	16	65.2	55.466	9.525	4	132	11010	34520	107	25	100	2	147	112	129.5	20	127	13.5	M8×1P	10	10		
63-20K5	63	20	65.2	55.466	9.525	5	168	13430	43530	107	25	140	2	147	112	129.5	20	127	13.5	M8×1P	10	10		
63-25K5	63	25	65.2	55.466	9.525	5	166	13390	43420	110	25	165	2	150	115	132.5	20	130	13.5	M8×1P	10	10	●	●
70-16K4	70	16	72.2	62.466	9.525	4	141	11470	38040	115	25	105	2	155	120	137.5	25	135	13.5	M8×1P	10	12.5		
70-20K4	70	20	72.2	62.466	9.525	4	143	11450	37990	115	25	122	2	155	120	137.5	25	135	13.5	M8×1P	10	12.5		
80-10K5	80	10	81.4	74.91	6.35	5	166	8620	37980	110	25	80	2	150	115	132.5	25	130	13.5	M8×1P	10	12.5		
80-12K5	80	12	81.8	73.688	7.938	5	177	11740	47130	115	25	102	2	155	120	137.5	25	135	13.5	M8×1P	10	12.5		
80-16K4	80	16	82.2	72.466	9.525	4	155	12410	44960	125	25	105	2	170	135	152.5	25	150	13.5	M8×1P	10	12.5		

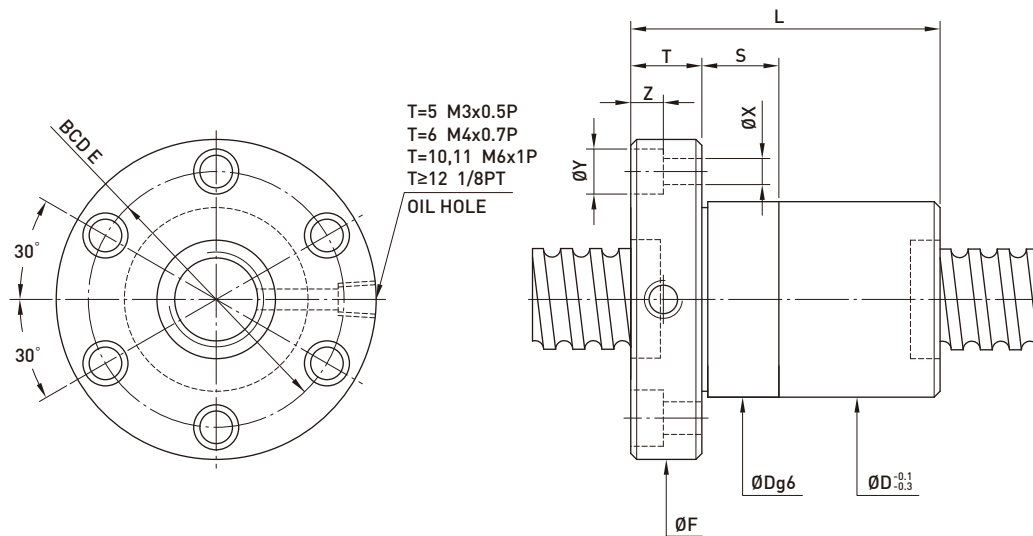
FSI Type ◀ Standard Product



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

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

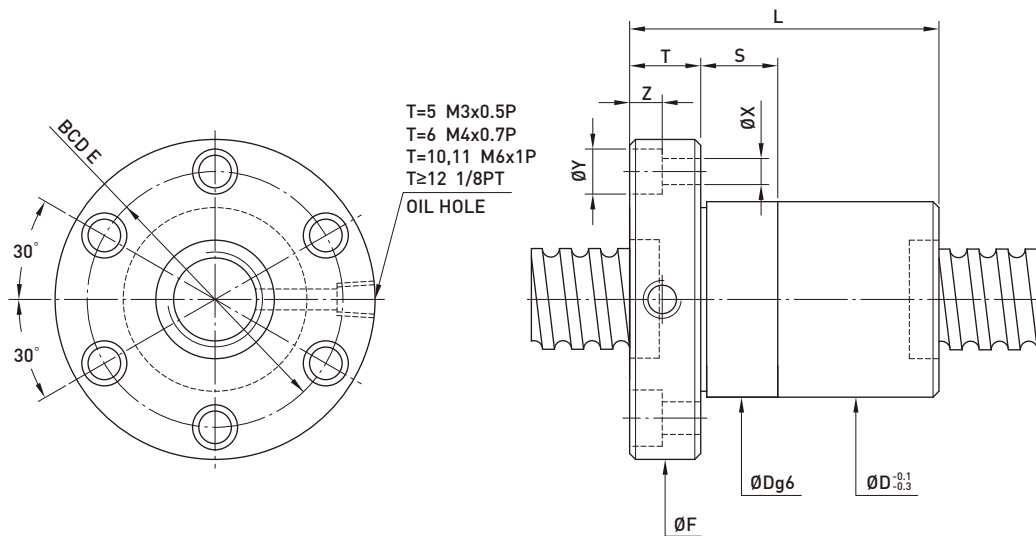
FSI Type ◀ Standard Product



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

Note: 1. Stiffness values listed above value are derived from theoretical formula while axial load is 30% of dynamic load rating without preload.
2. The smaller value of NTD is the minimum nut diameter available.

FSI Type ◀ Standard Product

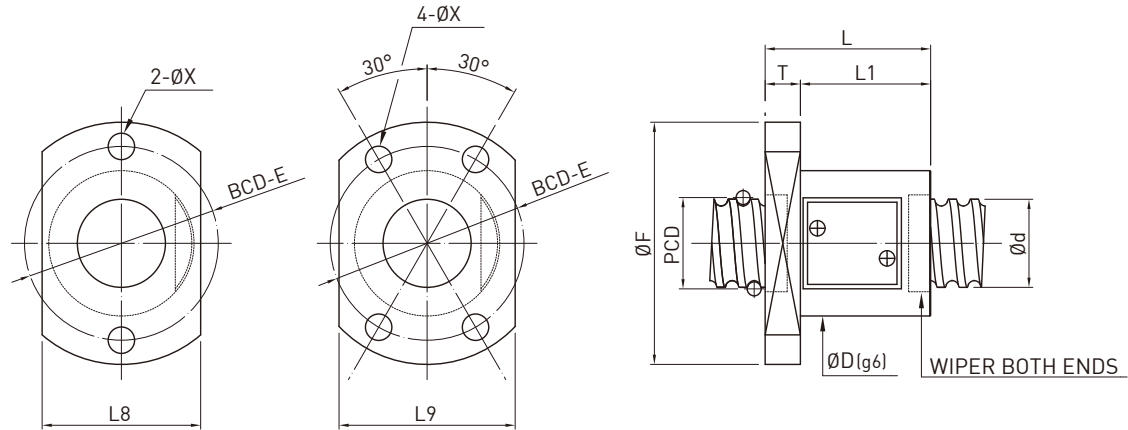


Model	Size		P.C.D.	RD	Ball Dia.	Circuits	Stiffness K (kgf/μm)	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut		Flange				Bolt			Fit
	Nominal Dia.	Lead								D	L	F	T	BCD-E	X	Y	Z	S	
63-6T4	63	6	63.8	59.744	3.969	4	75	2614	10542	78	80	66	119	18	98	11	17.5	11	20
63-6T6	63	6	63.8	59.744	3.969	6	113	3704	15813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

Note: 1. Stiffness values listed above value are derived from theoretical formula while axial load is 30% of dynamic load rating without preload.
2. The smaller value of NTD is the minimum nut diameter available.

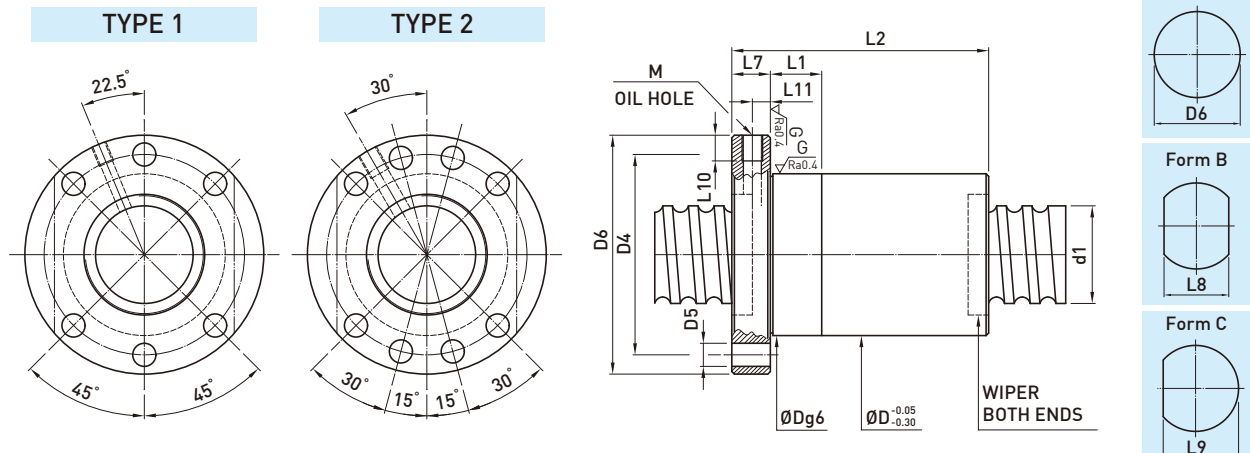
7.4 Dimensions for Rolled Ballscrews

FSZ Type ◀ Standard Product



Model	Size		Ball Dia.	Circuits	Dynamic Load Ca (kgf)	Static Load Coa (kgf)	Nut			Flange					Bolt
	Nominal Dia.	Lead					D	L	L1	F	T	BCD-E	L8	L9	
6-2B1	6	2	1.5	2.6x1	200	340	15.5	20	16	29	4	23	17	18	3.4
8-2B1	8	2	1.5	2.6x1	220	390	15.5	20	16	30	4	23	18	18	3.4
8-2C1	8	2	1.5	3.6x1	290	540	15.5	22	18	30	4	23	18	18	3.4
8-2.5B1	8	2.5	1.5	2.6x1	220	390	15.5	22	18	28	4	21	16	17	3.4
10-2B1	10	2	1.5	2.6x1	250	500	17	24.5	19.5	34	5	26	19	21	4.5
10-2.5B1	10	2.5	2	2.6x1	370	690	20	23	18	37	5	29	21	22	4.5
10-2.5C1	10	2.5	2	3.6x1	490	960	20	25	20	37	5	29	21	22	4.5
10-3C1	10	3	2.381	3.6x1	450	790	21	27.5	22.5	38	5	29	21	22	4.5
10-4B1	10	4	2.381	2.6x1	450	780	21	30	25	38	5	29	21	22	4.5
12-2B1	12	2	1.5	2.6x1	280	630	19.5	22	17	37	5	29	22	24	4.5
12-2C1	12	2	1.5	3.6x1	370	870	19.5	24	19	37	5	29	22	24	4.5
12-2.5B1	12	2.5	2	2.6x1	410	840	22	23	18	38	5	30	22	24	4.5
12-2.5C1	12	2.5	2	3.6x1	540	1160	22	26	21	38	5	30	22	24	4.5
12-4B1	12	4	2.381	2.6x1	510	990	22.5	30	25	40	5	32	22	24	4.5
12-4C1	12	4	2.381	3.6x1	670	1370	22.5	34	29	40	5	32	22	24	4.5
12-5B1	12	5	2.381	2.6x1	510	980	22.5	35	29	40	6	32	27	27	4.5
14-2D1	14	2	1.5	4.6x1	480	1310	22	27	21	43	6	33	24	26	5.5
14-4B1	14	4	2.381	2.6x1	540	1120	24.5	29	23	46	6	35	26	27	5.5
14-4C1	14	4	2.381	3.6x1	720	1560	24.5	33	27	46	6	35	26	27	5.5
16-4B1	16	4	2.381	2.6x1	570	1260	26	31	25	47	6	37	28	28	5.5
16-5B1	16	5	3.175	2.6x1	860	1760	28	34	28	49	6	38	30	30	5.5
16-5C1	16	5	3.175	3.6x1	1140	2430	28	39	33	49	6	38	30	30	5.5
20-5B1	20	5	3.175	2.6x1	970	2230	32.5	35	29	53	6	43	34	34	5.5
20-5C1	20	5	3.175	3.6x1	1280	3100	32.5	40	34	53	6	43	34	34	5.5

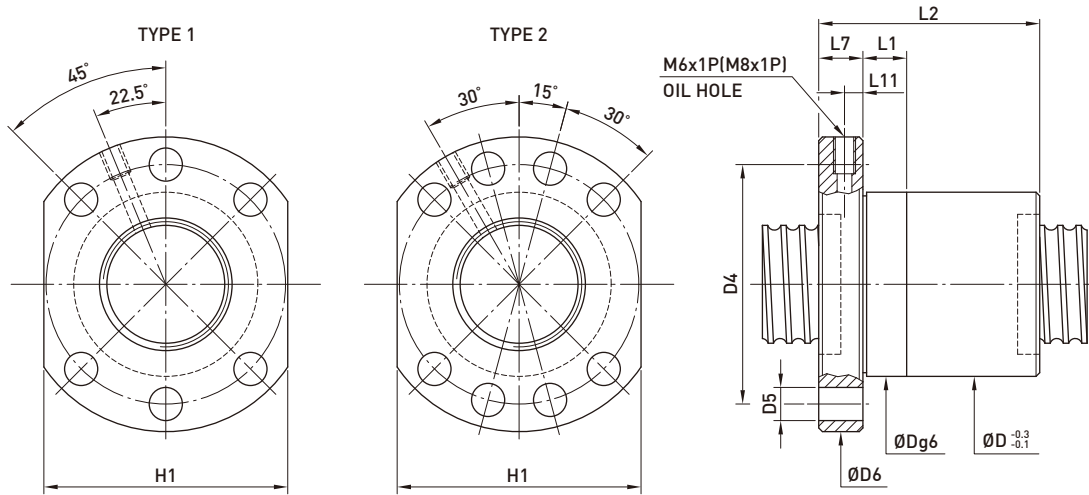
FSC Type ◀ Standard Product



Model	Size		Ball Dia.	Circuits	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	L11		
14-10K3	14	10	3.175	3	830	1610	28	10	46	1	48	40	44	10	38	5.5	M5x0.8P	6	5		
15-16K2	15	16	3	2	550	1110	28	10	45	1	48	40	44	10	38	5.5	M5x0.8P	6	5	●	
15-20K2	15	20	3.175	2	570	1130	34	10	50	1	57	43	50	10	45	5.5	M5x0.8P	6	5	●	
16-16K2	16	16	3.175	2	620	1240	34	10	47	1	57	43	50	10	45	5.5	M5x0.8P	6	5		●
20-10K4	20	10	3	4	1220	3050	34	10	55	1	57	43	50	10	45	5.5	M5x0.8P	6	5		
20-20K2	20	20	3.175	2	690	1560	36	10	57	1	58	44	51	10	47	6.6	M6x1P	8	5	●	●
20-8K5	20	8	4.763	5	2670	5850	45	10	64	1	65	51	58	10	54	6.6	M6x1P	8	5		●
25-25K2	25	25	3.175	2	760	1950	40	10	69	1	62	48	55	10	51	6.6	M6x1P	8	5	●	
25-6K5	25	6	3.969	5	2440	6470	42	10	50	1	65	51	58	10	54	6.6	M6x1P	8	5		●
25-20K3	25	20	3.969	3	1490	3670	45	10	80	1	65	51	58	10	54	6.6	M6x1P	8	5	●	
25-8K5	25	8	4.763	5	3130	7820	50	10	64	1	70	56	63	10	60	6.6	M6x1P	8	5		●
28-6K5	28	6	3.969	5	2620	7500	50	10	49	1	80	62	71	12	65	6.6	M6x1P	8	6		●
32-20K3	32	20	3.969	3	1710	4890	50	20	87	1	80	62	71	12	65	9	M6x1P	8	6	●	
32-32K2	32	32	3.969	2	1160	3170	50	20	87	1	80	62	71	12	65	9	M6x1P	8	6	●	
32-40K2	32	40	3.969	2	1120	3100	50	20	94	1	80	62	71	12	65	9	M6x1P	8	6	●	
32-25K2	32	25	4.763	2	1490	3760	54	20	72	1	86	65	75.5	14	71	9	M6x1P	8	7	●	●
32-32K2	32	32	4.763	2	1450	3700	54	20	88	1	86	65	75.5	14	71	9	M6x1P	8	7	●	●
32-10K5	32	10	6.35	5	5270	13880	62	10	77	1	92	74	83	14	77	9	M6x1P	8	7		●
32-20K4	32	20	6.35	4	4240	10850	57	20	107	1	87	69	78	14	72	9	M6x1P	8	7	●	●
36-6K5	36	6	3.969	5	2860	9230	56	10	51	2	86	65	75.5	14	71	9	M8x1P	10	7		●
36-10K5	36	10	6.35	5	5400	14800	66	20	80	2	96	73	84.5	14	81	9	M8x1P	10	7		●
36-20K4	36	20	6.35	4	4360	11590	65	20	108	2	95	72	83.5	14	80	9	M8x1P	10	7	●	●
38-40K2	38	40	6.35	2	2330	5910	63	25	102	2	93	70	81.5	14	78	9	M8x1P	10	7	●	●
40-6K5	40	6	3.969	5	3040	10600	63	20	52	2	93	70	81.5	14	78	9	M8x1P	10	7		
40-8K5	40	8	4.763	5	3830	12300	63	20	68	2	93	70	81.5	14	78	9	M8x1P	10	7		●
40-10K5	40	10	6.35	5	5690	16580	70	20	83	2	100	75	87.5	14	85	9	M8x1P	10	7		●
40-16K5	40	16	6.35	5	5670	16490	70	20	108	2	100	75	87.5	14	85	9	M8x1P	10	7		●
40-20K4	40	20	6.35	4	4600	13010	70	20	110	2	100	75	87.5	14	85	9	M8x1P	10	7	●	●
40-40K2	40	40	6.35	2	2390	6260	67	25	101	2	95	72	83.5	14	80	9	M8x1P	10	7	●	●
40-12K5	40	12	7.144	5	6680	18730	75	20	90	2	110	85	97.5	14	93	9	M8x1P	10	7		●
45-10K5	45	10	6.35	5	6130	19180	75	20	78	2	110	85	97.5	16	93	11	M8x1P	10	8		●
45-12K5	45	12	7.144	5	7040	20960	80	20	88	2	117	92	104.5	16	100	11	M8x1P	10	8		●
45-20K4	45	20	7.144	4	5720	16490	80	25	113	2	117	92	104.5	16	100	11	M8x1P	10	8		●
50-10K5	50	10	6.35	5	6330	20980	82	25	80	2	118	92	105	16	100	11	M8x1P	10	8		●
50-16K5	50	16	6.35	5	6310	20910	82	25	109	2	118	92	105	16	100	11	M8x1P	10	8		●
50-12K5	50	12	7.938	5	8760	27250	85	25	97	2	121	95	108	16	103	11	M8x1P	10	8		●
50-50K2	50	50	7.938	2	3580	9800	85	25	124	2	121	95	108	16	103	11	M8x1P	10	8	●	●
50-20K4	50	20	9.525	4	8850	24750	88	25	120	2	121	95	108	16	103	11	M8x1P	10	8		●
63-10K5	63	10	6.35	5	6950	26280	95	25	84	2	135	100	117.5	20	115	13.5	M8x1P	10	10		●
63-40K2	63	40	6.35	2	2980	9990	95	25	110	2	135	100	117.5	20	115	13.5	M8x1P	10	10	●	
63-12K5	63	12	7.938	5	9690	34130	98	25	94	2	138	103	120.5	20	118	13.5	M8x1P	10	10		●
63-16K4	63	16	9.525	4	10180	32600	109	25	100	2	147	112	129.5	20	127	13.5	M8x1P	10	10		●
63-20K5	63	20	9.525	5	12430	41100	107	25	140	2	147	112	129.5	20	127	13.5	M8x1P	10	10		●
80-10K5	80	10	6.35	5	7760	34180	110	25	80	2	150	115	132.5	25	130	13.5	M8x1P	10	12.5		●
80-16K4	80	16	9.525	4	11140	40490	125	25	105	2	170	135	152.5	25	150	13.5	M8x1P	10	12.5		●
80-20K4	80	20	9.525	4	11140	40440	120	25	122	2	165	130	147.5	25	145	13.5	M8x1P	10	12.5		●

7.5 Dimensions for DIN Rolled Ballscrews

FSC / FSI Type (DIN 69051 part 5 form B) ◀ Stock



Model	Size		PCD	Ball Dia.	Circuits	Dynamic Load C (kgf)	Static Load Co (kgf)	Nut		Flange									
	Nominal Dia.	Lead						L2	D	D4	D5	D6	H1	L7	TYPE	L1	L11	M-Oil Hold	
15-5K3	15	5	14.93	3	3	990	1580	38	28	38	5.5	48	40	10	1	10	5	M6×1P	
16-5T3	16	5	16.175	3.175	3	1000	2000	40	28	38	5.5	48	40	10	1	10	5	M6×1P	
20-5K3	20	5	20.2	3.175	3	1280	2410	36	36	47	6.6	58	44	10	1	10	5	M6×1P	
20-5K4	20	5	20.2	3.175	4	1670	3270	40	36	47	6.6	58	44	10	1	10	5	M6×1P	
25-5K3	25	5	25.57	3.175	3	1420	3050	38	40	51	6.6	62	48	10	1	10	5	M6×1P	
25-5K4	25	5	25.57	3.175	4	1850	4150	43	40	51	6.6	62	48	10	1	10	5	M6×1P	
25-10K5	25	10	25.1	3.175	5	2260	5200	70	40	51	6.6	62	48	10	1	10	5	M6×1P	
32-5K4	32	5	32.4	3.175	4	2070	5360	38	50	65	9	80	62	12	1	10	6	M6×1P	
32-5K6	32	5	32.4	3.175	6	2980	8190	48	50	65	9	80	62	12	1	10	6	M6×1P	
32-10T3	32	10	34.25	6.35	3	3650	8660	74	50	65	9	80	62	12	1	16	6	M6×1P	
32-10T4	32	10	34.26	6.35	4	4680	11550	85	50	65	9	80	62	12	1	16	6	M6×1P	
32-10K5	32	10	32.62	3.969	5	3390	8160	73	50	65	9	80	62	12	1	10	6	M6×1P	
32-10K6	32	10	32.62	3.969	6	3990	9860	83	50	65	9	80	62	12	1	10	6	M6×1P	
40-5K4	40	5	40.03	3.175	4	2240	6590	40	63	78	9	93	70	14	2	10	7	M8×1P	
40-5K6	40	5	40.03	3.175	6	3220	10060	50	63	78	9	93	70	14	2	10	7	M8×1P	
38-10K3	38	10	39.3	6.35	3	4350	9140	60	63	78	9	93	70	14	2	20	7	M8×1P	
40-10T3	40	10	41.85	6.35	3	4030	10680	74	63	78	9	93	70	14	2	16	7	M8×1P	
38-10K4	38	10	39.3	6.35	4	5660	12410	70	63	78	9	93	70	14	2	20	7	M8×1P	
40-10T4	40	10	41.85	6.35	4	5170	14240	87	63	78	9	93	70	14	2	16	7	M8×1P	
50-5K4	50	5	50.05	3.175	4	2450	8330	40	75	93	11	110	85	16	2	10	8	M8×1P	
50-5K6	50	5	50.05	3.175	6	3530	12720	50	75	93	11	110	85	16	2	10	8	M8×1P	
50-10K3	50	10	51.93	6.35	3	4960	12240	60	75	93	11	110	85	16	2	20	8	M8×1P	
50-10K4	50	10	51.93	6.35	4	6450	16610	70	75	93	11	110	85	16	2	20	8	M8×1P	
50-10K6	50	10	51.93	6.35	6	9280	25350	90	75	93	11	110	85	16	2	20	8	M8×1P	
63-10K6	63	10	64.534	6.35	6	10180	31750	94	90	108	11	125	95	18	2	10	9	M8×1P	