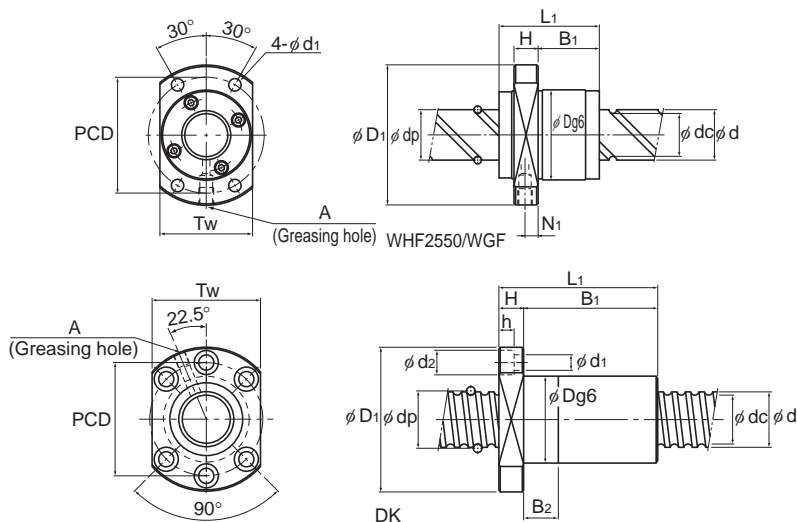


# No Preload Type of Precision Ball Screw

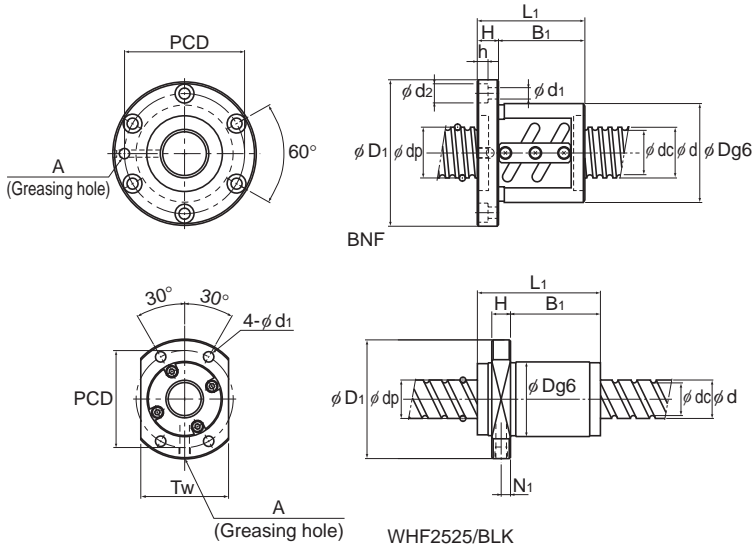
Screw shaft outer diameter	25 to 30
Lead	5 to 90



Screw shaft outer diameter d	Lead Ph	Model No.	Ball center-to-center diameter dp	Thread minor diameter dc	No. of loaded circuits Rows x turns	Basic load rating		Rigidity K N/μm	Outer diameter D	Flange diameter D <sub>1</sub>	
						Ca kN	C <sub>0a</sub> kN				
25	25	BLK 2525-2.8	26	21.9	1 × 2.8	12.2	26.9	270	47	74	
		WHF 2525-3.4	26	21.9	2 × 1.7	14.5	33.1	285	50	77	
		BLK 2525-3.6	26	21.9	2 × 1.8	16.6	38.7	350	47	74	
	50	WGF 2550-1	26	21.9	2 × 0.65	6.4	12.5	140	45	69	
		WGF 2550-3	26	21.9	2 × 1.65	14.3	31.7	340	45	69	
		WHF 2550-3.4	26	21.9	2 × 1.7	14.4	31.9	323	45	69	
28	5	BNF 2805-2.5	28.75	25.2	1 × 2.5	9.7	24.6	250	55	85	
		BNF 2805-3	28.75	25.2	2 × 1.5	11.3	29.5	300	55	85	
		BNF 2805-3.5	28.75	25.2	1 × 3.5	12.9	34.4	350	55	85	
		BNF 2805-5	28.75	25.2	2 × 2.5	17.5	49.4	500	55	85	
		BNF 2805-7.5	28.75	25.2	3 × 2.5	24.8	73.8	740	55	85	
		DK 2805-3	28.75	25.2	3 × 1	10.5	26.4	270	43	71	
	6	DK 2805-4	28.75	25.2	4 × 1	13.4	35.2	360	43	71	
		BNF 2806-2.5	28.75	25.2	1 × 2.5	9.6	24.6	250	55	85	
		BNF 2806-3.5	28.75	25.2	1 × 3.5	12.9	34.5	350	55	85	
		BNF 2806-5	28.75	25.2	2 × 2.5	17.5	49.4	500	55	85	
		BNF 2806-7.5	28.75	25.2	3 × 2.5	24.8	73.8	740	55	85	
		DK 2806-3	29	24.4	3 × 1	14	32	280	43	71	
	8	DK 2806-4	29	24.4	4 × 1	18	42.5	370	43	71	
		BNF 2808-2.5	29.25	23.6	1 × 2.5	16.8	36.8	270	60	104	
		BNF 2808-3	29.25	23.6	2 × 1.5	19.6	44.2	320	60	104	
		BNF 2808-5	29.25	23.6	2 × 2.5	30.4	73.7	530	60	104	
		10	BNF 2810-2.5	29.75	22.4	1 × 2.5	24	48.2	280	65	106
			DK 2810-4	29.25	23.6	4 × 1	22.4	50	370	45	71
30	60	WGF 3060-1	31.25	26.4	2 × 0.65	8.9	18	170	55	89	
		WGF 3060-3	31.25	26.4	2 × 1.65	19.9	45.7	410	55	89	
		WGF 3090-1.5	31.25	26.4	2 × 0.75	9.7	25.8	200	55	89	

Note) The model numbers in dimmed type indicate semi-standard types. If desiring them, contact THK.

Model WHF, model WGF and Large Lead Precision Ball Screw model BLK cannot be attached with seal.



Unit: mm

Nut dimensions											Screw shaft inertial moment/mm <sup>4</sup>	Nut mass kg	Shaft mass kg/m	
Overall length	L <sub>1</sub>	H	B <sub>1</sub>	B <sub>2</sub>	PCD	d <sub>1</sub>	d <sub>2</sub>	h	Tw	N <sub>1</sub>				Greasing hole
80	12	60	—	60	6.6	—	—	—	56	6	M6	3.01 × 10 <sup>-3</sup>	0.89	3.52
58.8	12	31.3	—	63	6.6	—	—	—	56	6	M6	3.01 × 10 <sup>-3</sup>	0.65	3.52
55	12	35	—	60	6.6	—	—	—	56	6	M6	3.01 × 10 <sup>-3</sup>	0.64	3.52
52	12	31.5	—	57	6.6	—	—	—	46	7	M6	3.01 × 10 <sup>-3</sup>	0.43	3.66
102	12	81.5	—	57	6.6	—	—	—	46	7	M6	3.01 × 10 <sup>-3</sup>	0.85	3.66
103.3	12	79.3	—	57	6.6	—	—	—	46	6	M6	3.01 × 10 <sup>-3</sup>	0.72	3.66
44	12	32	—	69	6.6	11	6.5	—	—	—	M6	4.74 × 10 <sup>-3</sup>	1.02	4.27
54	12	42	—	69	6.6	11	6.5	—	—	—	M6	4.74 × 10 <sup>-3</sup>	0.92	4.27
49	12	37	—	69	6.6	11	6.5	—	—	—	M6	4.74 × 10 <sup>-3</sup>	0.86	4.27
59	12	47	—	69	6.6	11	6.5	—	—	—	M6	4.74 × 10 <sup>-3</sup>	1.06	4.27
74	12	62	—	69	6.6	11	6.5	—	—	—	M6	4.74 × 10 <sup>-3</sup>	1.16	4.27
49	12	37	10	57	6.6	11	6.5	55	—	—	M6	4.74 × 10 <sup>-3</sup>	0.48	4.27
54	12	42	10	57	6.6	11	6.5	55	—	—	M6	4.74 × 10 <sup>-3</sup>	0.51	4.27
50	12	38	—	69	6.6	11	6.5	—	—	—	M6	4.74 × 10 <sup>-3</sup>	0.87	4.36
56	12	44	—	69	6.6	11	6.5	—	—	—	M6	4.74 × 10 <sup>-3</sup>	0.94	4.36
68	12	56	—	69	6.6	11	6.5	—	—	—	M6	4.74 × 10 <sup>-3</sup>	1.09	4.36
86	12	74	—	69	6.6	11	6.5	—	—	—	M6	4.74 × 10 <sup>-3</sup>	1.3	4.36
53	12	41	10	57	6.6	11	6.5	55	—	—	M6	4.74 × 10 <sup>-3</sup>	0.5	4.36
61	12	49	10	57	6.6	11	6.5	55	—	—	M6	4.74 × 10 <sup>-3</sup>	0.56	4.36
68	18	50	—	82	11	17.5	11	—	—	—	M6	4.74 × 10 <sup>-3</sup>	1.75	4.02
80	18	62	—	82	11	17.5	11	—	—	—	M6	4.74 × 10 <sup>-3</sup>	1.93	4.02
92	18	74	—	82	11	17.5	11	—	—	—	M6	4.74 × 10 <sup>-3</sup>	2.11	4.02
86	18	68	—	85	11	17.5	11	—	—	—	M6	4.74 × 10 <sup>-3</sup>	2.3	3.66
84	15	69	20	57	6.6	11	6.5	55	—	—	M6	4.74 × 10 <sup>-3</sup>	0.82	4.18
62	15	37	—	71	9	—	—	—	56	9	M6	6.24 × 10 <sup>-3</sup>	1.11	5.28
122	15	97	—	71	9	—	—	—	56	9	M6	6.24 × 10 <sup>-3</sup>	1.9	5.28
92	15	61.3	—	71	9	—	—	—	56	9	M6	6.24 × 10 <sup>-3</sup>	1.51	5.34

For model number coding, see **■15-248**.