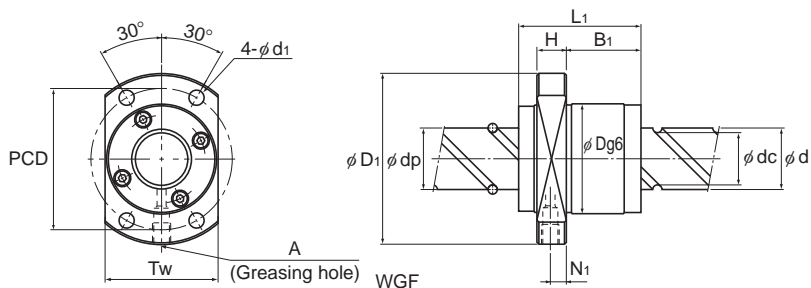


## No Preload Type of Precision Ball Screw

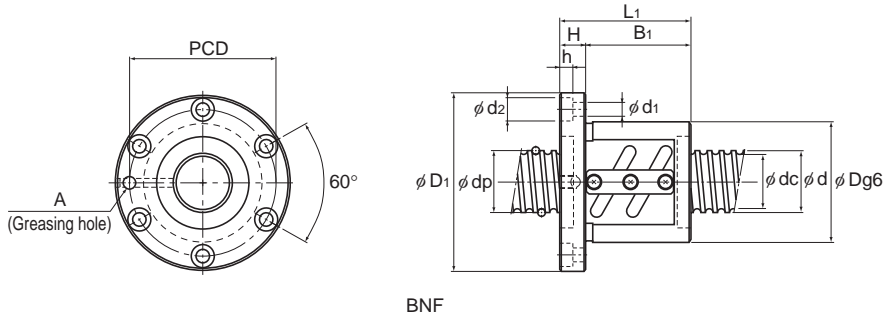
Screw shaft outer diameter	40 to 45
Lead	6 to 80



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	
						Ca kN	Ca0 kN		D	Flange diameter D1
40	80	WGF 4080-1	41.75	35.2	2×0.65	15	32.1	220	73	114
		WGF 4080-3	41.75	35.2	2×1.65	33.4	81.4	530	73	114
45	6	BNF 4506A-2.5	46	41.4	1×2.5	16	49.6	390	80	114
		BNF 4506A-5	46	41.4	2×2.5	29	99	750	80	114
		BNF 4506A-7.5	46	41.4	3×2.5	41.2	150	1100	80	114
	8	BNF 4508-2.5	46.25	40.6	1×2.5	20.7	59.5	400	85	127
		BNF 4508-5	46.25	40.6	2×2.5	37.4	118.6	770	85	127
		BNF 4508-7.5	46.25	40.6	3×2.5	53.1	178.4	1140	85	127
	10	BNF 4510-2.5	46.75	39.5	1×2.5	30.7	79.3	420	88	132
		BNF 4510-3	46.75	39.5	2×1.5	35.9	95.2	500	88	132
		BNF 4510-5	46.75	39.5	2×2.5	55.6	158.8	800	88	132
		BNF 4510-7.5	46.75	39.5	3×2.5	78.8	238.1	1190	88	132
12	BNF 4512-5	47	39.2	2×2.5	65.2	178.4	820	90	130	
20	BNF 4520-1.5	47.7	37.9	1×1.5	44.2	99	350	98	142	

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

Model WGF cannot be attached with seal.



Unit: mm

Nut dimensions											Screw shaft inertia moment/mm <sup>4</sup>	Nut mass kg	Shaft mass kg/m
Overall length	L <sub>1</sub>	H	B <sub>1</sub>	PCD	d <sub>1</sub>	d <sub>2</sub>	h	T <sub>w</sub>	N <sub>1</sub>	Greasing hole			
	79	17	50.5	93	11	—	—	74	8.5	M6	$1.97 \times 10^{-2}$	2.34	9.38
	159	17	130.5	93	11	—	—	74	8.5	M6	$1.97 \times 10^{-2}$	4.18	9.38
	53	15	38	96	9	14	8.5	—	—	PT 1/8	$3.16 \times 10^{-2}$	1.76	11.31
	71	15	56	96	9	14	8.5	—	—	PT 1/8	$3.16 \times 10^{-2}$	2.18	11.31
	89	15	74	96	9	14	8.5	—	—	PT 1/8	$3.16 \times 10^{-2}$	2.59	11.31
	68	18	50	105	11	17.5	11	—	—	PT 1/8	$3.16 \times 10^{-2}$	2.76	11.21
	92	18	74	105	11	17.5	11	—	—	PT 1/8	$3.16 \times 10^{-2}$	3.42	11.21
	116	18	98	105	11	17.5	11	—	—	PT 1/8	$3.16 \times 10^{-2}$	4.09	11.21
	81	18	63	110	11	17.5	11	—	—	PT 1/8	$3.16 \times 10^{-2}$	3.43	10.65
	94	18	76	110	11	17.5	11	—	—	PT 1/8	$3.16 \times 10^{-2}$	3.83	10.65
	111	18	93	110	11	17.5	11	—	—	PT 1/8	$3.16 \times 10^{-2}$	4.35	10.65
	141	18	123	110	11	17.5	11	—	—	PT 1/8	$3.16 \times 10^{-2}$	5.26	10.65
	119	18	101	110	11	17.5	11	—	—	PT 1/8	$3.16 \times 10^{-2}$	4.74	10.54
	95	20	75	120	11	17.5	11	—	—	PT 1/8	$3.16 \times 10^{-2}$	5.04	10.37

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