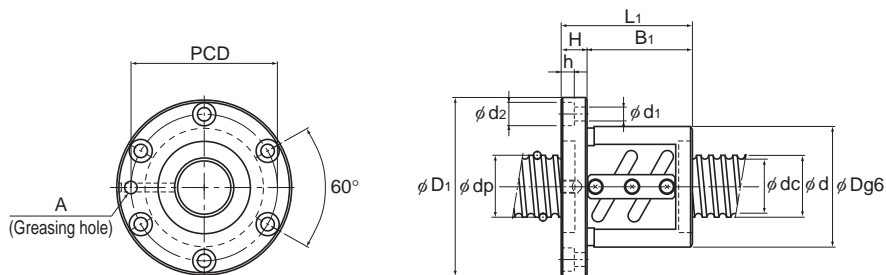


No Preload Type of Precision Ball Screw

Screw shaft outer diameter	50
Lead	12 to 50



BNF

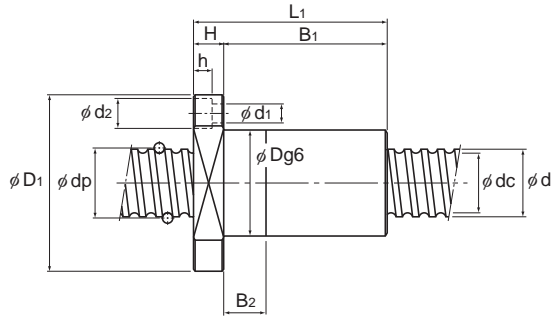
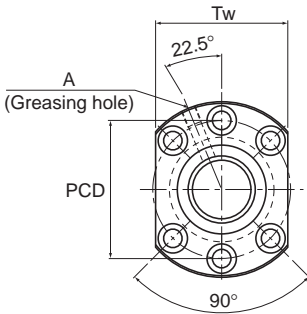
Screw shaft outer diameter d	Lead Ph	Model No.	Ball center-to-center diameter dp	Thread minor diameter dc	No. of loaded circuits Rows X turns	Basic load rating		Rigidity K N/μm	Rigidity	
						Ca kN	C _{0a} kN		Outer diameter D	Flange diameter D ₁
50	12	DK 5012-3	52.25	43.3	3×1	45.8	113	490	75	129
		DK 5012-4	52.25	43.3	4×1	58.6	150.6	640	75	129
		○BNF 5012-2.5	52.25	43.3	1×2.5	43.4	109.8	470	100	146
		○BNF 5012-3.5	52.25	43.3	1×3.5	58	153.9	640	100	146
		○BNF 5012-5	52.25	43.3	2×2.5	78.8	220.5	910	100	146
	16	DK 5016-3	52.25	43.3	3×1	45.7	113.3	490	75	129
		DK 5016-4	52.25	43.3	4×1	58.5	151	640	75	129
		○BNF 5016-2.5	52.7	42.9	1×2.5	72.6	183.3	620	105	152
		○BNF 5016-5	52.7	42.9	2×2.5	132.3	366.5	1180	105	152
	20	DK 5020-3	52.25	43.6	3×1	44.2	108.8	470	75	129
		○BNF 5020-2.5	52.7	42.9	1×2.5	72.5	183.3	620	105	152
	50	BLK 5050-2.8	52.2	44.1	1×2.8	42.2	107.8	530	90	135
BLK 5050-3.6		52.2	44.1	2×1.8	57.8	155	670	90	135	

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

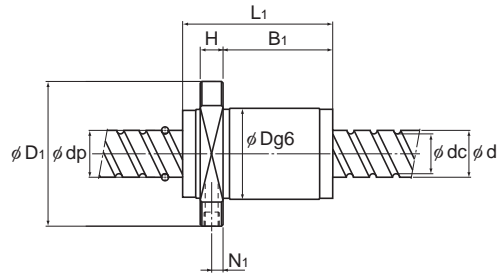
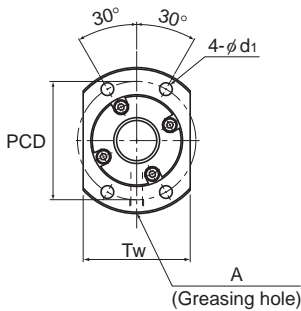
Those models marked with ○ can be attached with QZ Lubricator or the wiper ring.

For dimensions of the ball screw nut with either accessory being attached, see **A15-356**.

Large Lead Precision Ball Screw model BLK cannot be attached with seal.



DK



BLK

Unit: mm

Nut dimensions												Screw shaft inertial moment/mm ⁴	Nut mass	Shaft mass
Overall length	L ₁	H	B ₁	B ₂	PCD	d ₁	d ₂	h	Tw	N ₁	Greasing hole			
97	22	75	20	105	14	20	13	98	—	—	PT 1/8	4.82×10^{-2}	2.91	12.74
110	22	88	25	105	14	20	13	98	—	—	PT 1/8	4.82×10^{-2}	3.16	12.74
87	22	65	—	122	14	20	13	—	—	—	PT 1/8	4.82×10^{-2}	4.57	12.74
99	22	77	—	122	14	20	13	—	—	—	PT 1/8	4.82×10^{-2}	5.05	12.74
123	22	101	—	122	14	20	13	—	—	—	PT 1/8	4.82×10^{-2}	6.02	12.74
111	22	89	25	105	14	20	13	98	—	—	PT 1/8	4.82×10^{-2}	3.18	13.41
129	22	107	30	105	14	20	13	98	—	—	PT 1/8	4.82×10^{-2}	3.52	13.41
116	25	91	—	128	14	20	13	—	—	—	PT 1/8	4.82×10^{-2}	6.98	12.5
164	25	139	—	128	14	20	13	—	—	—	PT 1/8	4.82×10^{-2}	9.18	12.5
136	28	108	30	105	14	20	13	98	—	—	PT 1/8	4.82×10^{-2}	3.94	13.8
141	28	113	—	128	14	20	13	—	—	—	PT 1/8	4.82×10^{-2}	8.32	13.08
156	20	122	—	112	14	—	—	104	10	—	M6	4.82×10^{-2}	6.18	14.08
106	20	72	—	112	14	—	—	104	10	—	M6	4.82×10^{-2}	4.45	14.08

For model number coding, see **A15-248**.