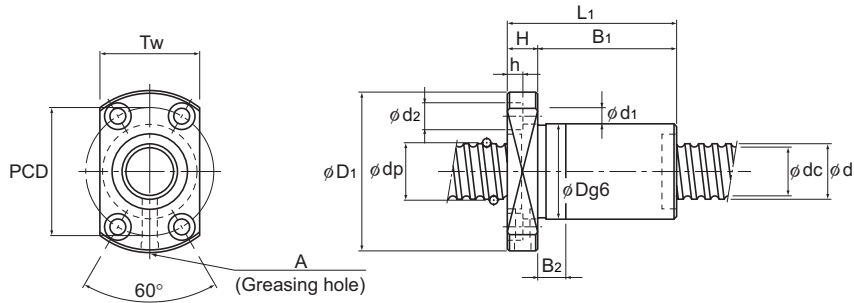
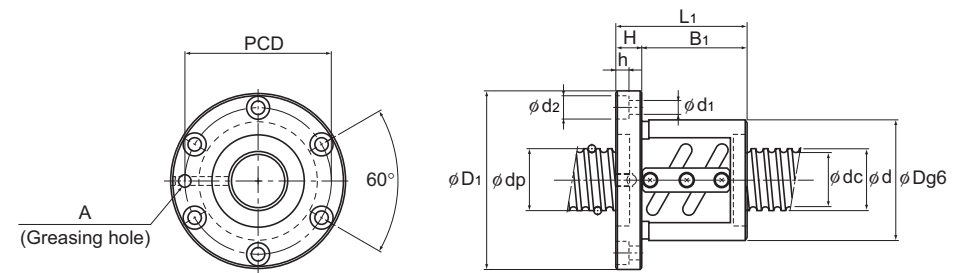


Preload Type of Precision Ball Screw

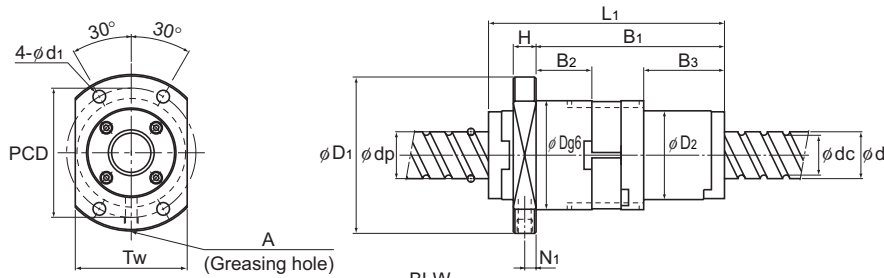
Screw shaft outer diameter	14 to 18
Lead	4 to 16



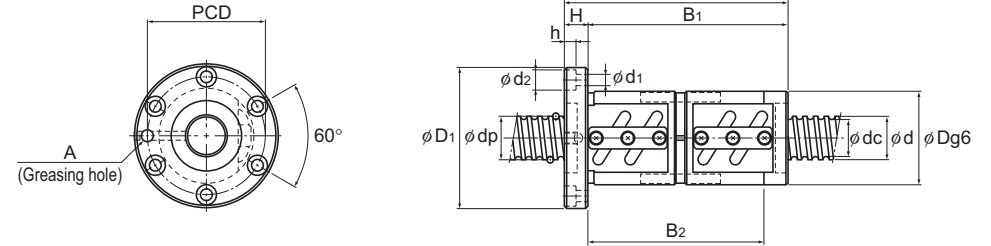
DIK (1404 to 2510)



BIF



BLW



BNFN

Unit: mm

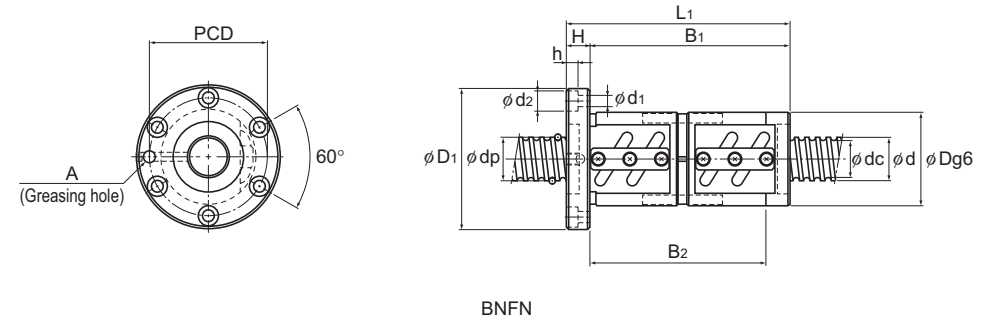
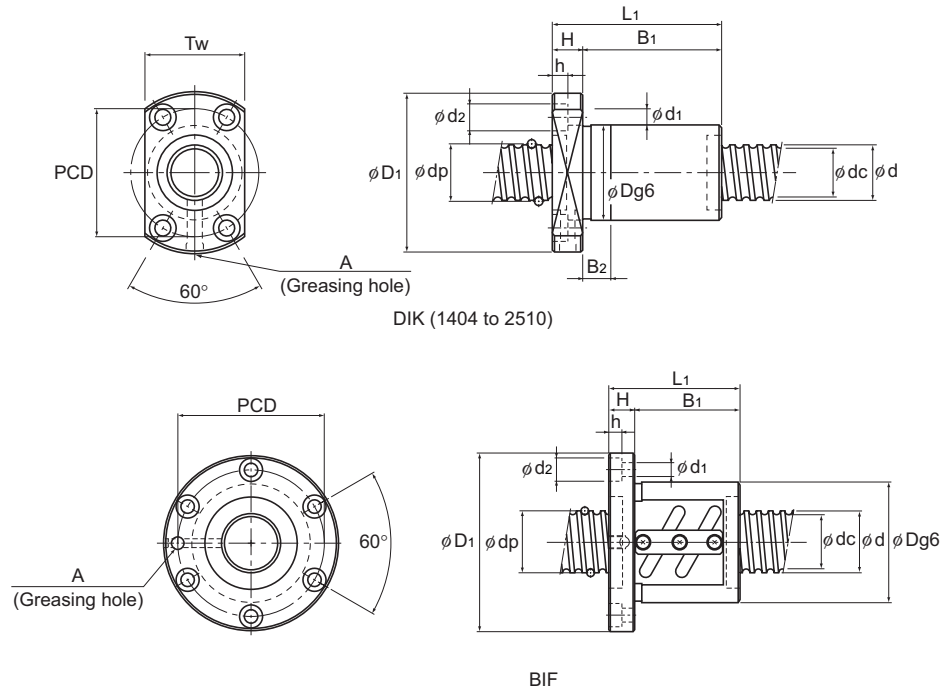
Screw shaft outer diameter d	Lead Ph	Model No.	Ball center-to-center diameter dp	Thread minor diameter dc	No. of loaded circuits Rows x turns	Basic load rating		Rigidity K	Nut dimensions													Screw shaft inertial moment/mm ⁴ kg·cm ² /mm	Nut mass kg	Shaft mass kg/m		
						Ca kN	Ca kN		Outer diameter D	Flange diameter D ₁	D ₂	Overall length L ₁	H	B ₁	B ₂	B ₃	PCD	d ₁	d ₂	h	Tw				N ₁	Greasing hole A
14	4	DIK 1404-4	14.5	11.8	2×1	3	5.1	190	26	45	—	48	10	38	10	—	35	4.5	8	4.5	29	—	M6	2.96×10 ⁻⁴	0.2	1.0
		DIK 1404-6	14.5	11.8	3×1	4.2	7.7	280	26	45	—	60	10	50	10	—	35	4.5	8	4.5	29	—	M6	2.96×10 ⁻⁴	0.23	1.0
15	10	BLW 1510-5.6	15.75	12.5	2×2.8	14.3	27.8	680	43	64	34	89	10	69	18.7	28.6	52	5.5	—	—	46	5	M6	3.9×10 ⁻⁴	0.81	1.07
16	4	BNFN 1604-3	16.5	13.8	2×1.5	5.1	10.5	350	36	59	—	85	11	74	—	—	47	5.5	9.5	5.5	—	—	M6	5.05×10 ⁻⁴	0.67	1.35
		BIF 1605-5	16.75	13.2	1×2.5	7.4	13.9	330	40	60	—	56	10	46	—	—	50	4.5	8	4.5	—	—	M6	5.05×10 ⁻⁴	0.56	1.25
	DIK 1605-6	16.75	13.2	3×1	7.4	13	310	30	49	—	60	10	50	10	—	39	4.5	8	4.5	31	—	M6	5.05×10 ⁻⁴	0.3	1.25	
	BNFN 1605-2.5	16.75	13.2	1×2.5	7.4	13.9	330	40	60	—	76	10	66	55	—	50	4.5	8	4.5	—	—	M6	5.05×10 ⁻⁴	0.66	1.25	
	BNFN 1605-3	16.75	13.2	2×1.5	8.7	16.8	390	40	60	—	96	10	86	75	—	50	4.5	8	4.5	—	—	M6	5.05×10 ⁻⁴	0.81	1.25	
	BNFN 1605-5	16.75	13.2	2×2.5	13.5	27.8	640	40	60	—	106	10	96	85	—	50	4.5	8	4.5	—	—	M6	5.05×10 ⁻⁴	0.88	1.25	
	BIF 1606-5	16.8	13.2	1×2.5	7.5	14	330	40	60	—	62	10	52	—	—	50	4.5	8	4.5	—	—	M6	5.05×10 ⁻⁴	0.56	1.3	
10	BNFN 1610-1.5	16.8	13.2	1×1.5	4.8	8.5	210	40	63	—	72	11	61	—	—	51	5.5	9.5	5.5	—	—	M6	5.05×10 ⁻⁴	0.67	1.41	
16	BLW 1616-3.6	16.65	13.7	2×1.8	7.1	14.3	440	41	60	32	84.5	10	65.5	18.1	27.1	49	4.5	—	—	44	6	M6	5.05×10 ⁻⁴	0.67	1.42	
18	10	BIF 1810-3	18.8	15.5	1×1.5	5.1	9.6	230	42	65	—	75	12	63	—	—	53	5.5	9.5	5.5	—	—	M6	8.09×10 ⁻⁴	0.75	1.81
		BNFN 1810-2.5	18.8	15.5	1×2.5	7.8	15.9	360	42	65	—	119	12	107	94	—	53	5.5	9.5	5.5	—	—	M6	8.09×10 ⁻⁴	1.09	1.81
		BNFN 1810-3	18.8	15.5	2×1.5	9.2	19.1	430	42	65	—	135	12	123	110	—	53	5.5	9.5	5.5	—	—	M6	8.09×10 ⁻⁴	1.21	1.81

Note) The model numbers in dimmed type indicate semi-standard types.
If desiring them, contact THK.
Model BLW cannot be attached with seal.

For model number coding, see B-718.

Preload Type of Precision Ball Screw

Screw shaft outer diameter	20
Lead	4 to 5



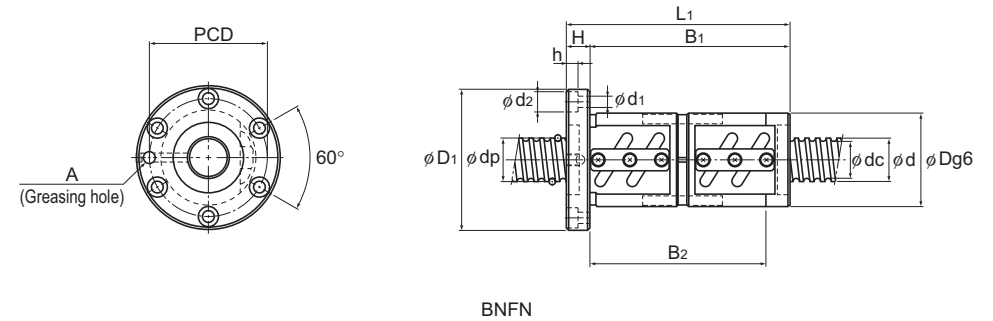
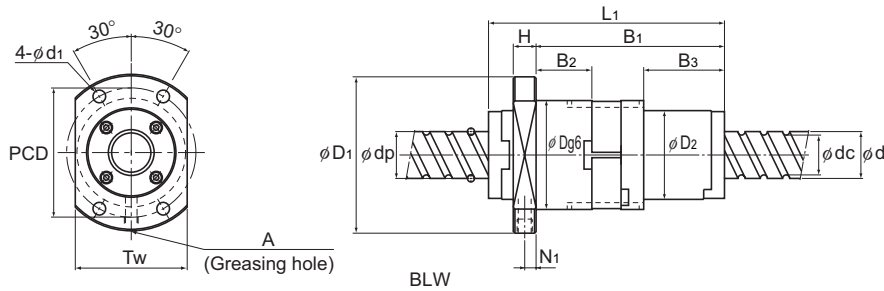
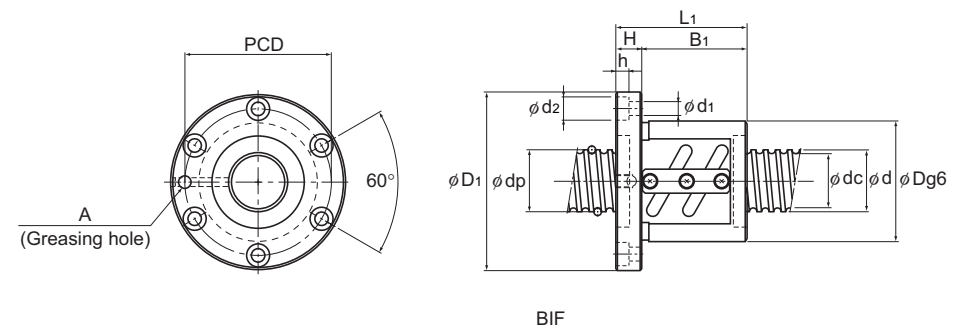
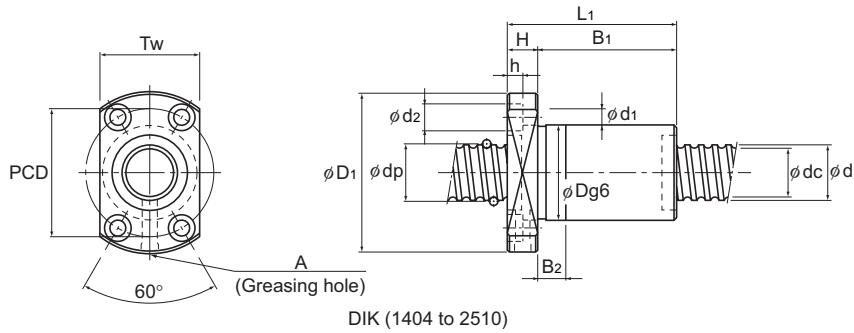
Screw shaft outer diameter d	Lead Ph	Model No.	Ball center-to-center diameter dp	Thread minor diameter dc	No. of loaded circuits Rows x turns	Basic load rating		Rigidity K	Nut dimensions										Screw shaft inertia moment/mm ³ kg·cm ² /mm	Nut mass kg	Shaft mass kg/m
						Ca kN	C _{0a} kN		Outer diameter D	Flange diameter D ₁	Overall length L ₁	H	B ₁	B ₂	PCD	d ₁ × d ₂ × h	Tw	Greasing hole A			
20	4	BIF 2004-5	20.5	17.8	1 × 2.5	4.8	10.9	360	40	63	53	11	42	—	51	5.5 × 9.5 × 5.5	—	M6	1.23 × 10 ⁻³	0.49	2.18
		DIK 2004-6	20.5	17.8	3 × 1	5.2	11.6	380	32	56	62	11	51	15	44	5.5 × 9.5 × 5.5	35	M6	1.23 × 10 ⁻³	0.34	2.18
		DIK 2004-8	20.5	17.8	4 × 1	6.6	15.5	510	32	56	70	11	59	15	44	5.5 × 9.5 × 5.5	35	M6	1.23 × 10 ⁻³	0.37	2.18
		BNFN 2004-2.5	20.5	17.8	1 × 2.5	4.8	10.9	360	40	63	69	11	58	—	51	5.5 × 9.5 × 5.5	—	M6	1.23 × 10 ⁻³	0.58	2.18
		BNFN 2004-5	20.5	17.8	2 × 2.5	8.6	21.8	700	40	63	93	11	82	—	51	5.5 × 9.5 × 5.5	—	M6	1.23 × 10 ⁻³	0.74	2.18
	5	BIF 2005-5	20.75	17.2	1 × 2.5	8.3	17.4	390	44	67	56	11	45	—	55	5.5 × 9.5 × 5.5	—	M6	1.23 × 10 ⁻³	0.57	2.06
		DIK 2005-6	20.75	17.2	3 × 1	8.5	17.3	310	34	58	61	11	50	10	46	5.5 × 9.5 × 5.5	36	M6	1.23 × 10 ⁻³	0.38	2.06
		BNFN 2005-2.5	20.75	17.2	1 × 2.5	8.3	17.4	390	44	67	76	11	65	53	55	5.5 × 9.5 × 5.5	—	M6	1.23 × 10 ⁻³	0.77	2.06
		BNFN 2005-3	20.75	17.2	2 × 1.5	9.7	21	470	44	67	97	11	86	74	55	5.5 × 9.5 × 5.5	—	M6	1.23 × 10 ⁻³	0.93	2.06
		BNFN 2005-3.5	20.75	17.2	1 × 3.5	11.1	24.5	550	44	67	85	11	74	62	55	5.5 × 9.5 × 5.5	—	M6	1.23 × 10 ⁻³	0.86	2.06
BNFN 2005-5	20.75	17.2	2 × 2.5	15.1	35	760	44	67	106	11	95	83	55	5.5 × 9.5 × 5.5	—	M6	1.23 × 10 ⁻³	0.98	2.06		

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

For model number coding, see B-718.

Preload Type of Precision Ball Screw

Screw shaft outer diameter	20
Lead	6 to 20



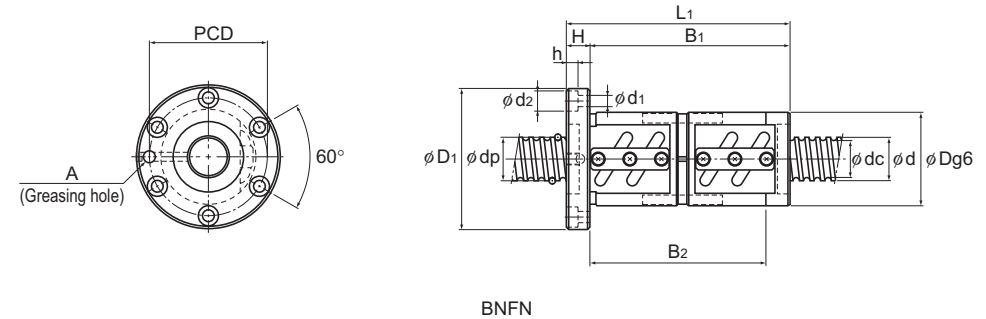
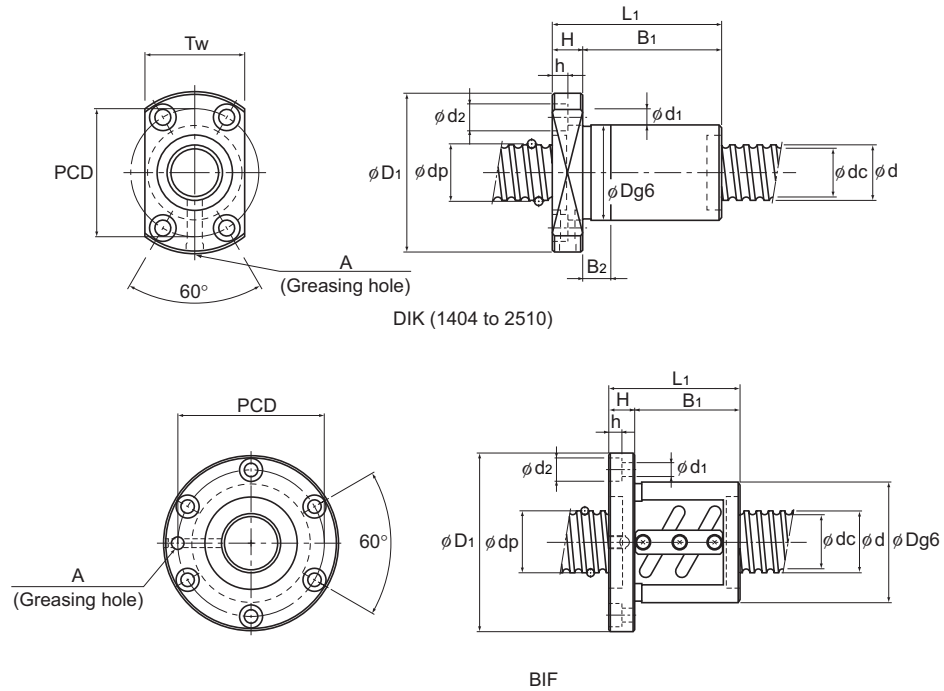
Screw shaft outer diameter d	Lead Ph	Model No.	Ball center-to-center diameter dp	Thread minor diameter dc	No. of loaded circuits Rows x turns	Basic load rating			Rigidity			Nut dimensions											Screw shaft inertial moment/mm ³ kg·cm ² /mm	Nut mass kg	Shaft mass kg/m	
						Ca	C _{0a}	K	Outer diameter	Flange diameter	Overall length L ₁	H	B ₁	B ₂	B ₃	PCD	d ₁	d ₂	h	Tw	N ₁	A				
						kN	kN	N/μm	D	D ₁																D ₂
20	6	BIF 2006-3	20.75	17.2	1×1.5	5.4	10.5	250	48	71	—	56	11	45	—	—	59	5.5	9.5	5.5	—	—	M6	1.23×10 ⁻³	0.74	2.13
		BIF 2006-5	20.75	17.2	1×2.5	8.3	17.5	390	48	71	—	62	11	51	—	—	59	5.5	9.5	5.5	—	—	M6	1.23×10 ⁻³	0.8	2.13
		DIK 2006-6	21	16.4	3×1	11.4	21.5	410	35	58	—	76	11	65	15	—	46	5.5	9.5	5.5	36	—	M6	1.23×10 ⁻³	0.48	1.93
		BNFN 2006-2.5	20.75	17.2	1×2.5	8.3	17.5	390	48	71	—	86	11	75	—	—	59	5.5	9.5	5.5	—	—	M6	1.23×10 ⁻³	1.05	2.13
		BNFN 2006-3	20.75	17.2	2×1.5	9.7	21	470	48	71	—	110	11	99	—	—	59	5.5	9.5	5.5	—	—	M6	1.23×10 ⁻³	1.3	2.13
		BNFN 2006-3.5	20.75	17.2	1×3.5	11.1	24.5	550	48	71	—	98	11	87	—	—	59	5.5	9.5	5.5	—	—	M6	1.23×10 ⁻³	1.17	2.13
	BNFN 2006-5	20.75	17.2	2×2.5	15.1	35	760	48	71	—	122	11	111	—	—	59	5.5	9.5	5.5	—	—	M6	1.23×10 ⁻³	1.42	2.13	
	8	DIK 2008-4	21	16.4	2×1	8.1	14.4	280	35	58	—	69	11	58	15	—	46	5.5	9.5	5.5	36	—	M6	1.23×10 ⁻³	0.45	2.06
		BNFN 2008-2.5	21	16.4	1×2.5	15.1	35	760	46	74	—	100	15	85	—	—	59	5.5	9.5	5.5	—	—	M6	1.23×10 ⁻³	1.08	2.06
	10	BNFN 2010A-1.5	21	16.4	1×1.5	7.2	13.2	250	46	74	—	98	15	83	67	—	59	5.5	9.5	5.5	—	—	M6	1.23×10 ⁻³	1.06	2.14
12	BNFN 2012-1.5	21	16.4	1×1.5	7.1	12.5	250	48	71	—	100	18	82	—	—	59	5.5	9.5	5.5	—	—	M6	1.23×10 ⁻³	1.3	2.19	
20	BLW 2020-3.6	20.75	17.5	2×1.8	11.1	24.7	570	48	69	39	105	10	84	25	36	57	5.5	—	—	50	5	M6	1.23×10 ⁻³	0.54	2.25	

Note) The model numbers in dimmed type indicate semi-standard types. If desiring them, contact THK. Model BLW cannot be attached with seal.

For model number coding, see B-718.

Preload Type of Precision Ball Screw

Screw shaft outer diameter	25
Lead	4 to 6



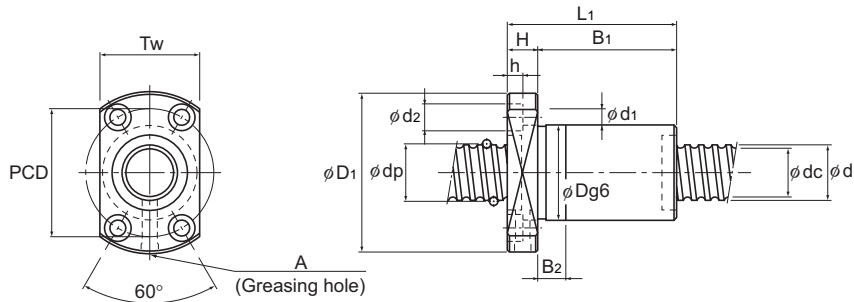
Screw shaft outer diameter d	Lead Ph	Model No.	Ball center-to-center diameter dp	Thread minor diameter dc	No. of loaded circuits Rows x turns	Basic load rating		Rigidity K N/μm	Nut dimensions										Screw shaft inertial moment/mm kg·cm ² /mm	Nut mass kg	Shaft mass kg/m
						Ca kN	Ca kN		Outer diameter D	Flange diameter D ₁	Overall length L ₁	H	B ₁	B ₂	PCD	d ₁ × d ₂ × h	Tw	Greasing hole A			
25	4	DIK 2504-6	25.5	22.8	3 × 1	5.7	15	470	38	63	63	11	52	15	51	5.5 × 9.5 × 5.5	39	M6	3.01 × 10 ⁻³	0.43	3.5
		DIK 2504-8	25.5	22.8	4 × 1	7.4	19.9	620	38	63	71	11	60	15	51	5.5 × 9.5 × 5.5	39	M6	3.01 × 10 ⁻³	0.47	3.5
		○ BNFN 2504-2.5	25.5	22.8	1 × 2.5	5.2	13.7	420	46	69	68	11	57	—	57	5.5 × 9.5 × 5.5	—	M6	3.01 × 10 ⁻³	0.69	3.5
		○ BNFN 2504-5	25.5	22.8	2 × 2.5	9.5	27.3	820	46	69	92	11	81	—	57	5.5 × 9.5 × 5.5	—	M6	3.01 × 10 ⁻³	0.88	3.5
	5	DIK 2505-6	25.75	22.2	3 × 1	9.7	22.6	490	40	63	61	11	50	10	51	5.5 × 9.5 × 5.5	41	M6	3.01 × 10 ⁻³	0.47	3.35
		○ BIF 2505-3	25.75	22.2	1 × 1.5	6	13.1	280	50	73	52	11	41	—	61	5.5 × 9.5 × 5.5	—	M6	3.01 × 10 ⁻³	0.7	3.35
		○ BIF 2505-5	25.75	22.2	1 × 2.5	9.2	22	470	50	73	55	11	44	—	61	5.5 × 9.5 × 5.5	—	M6	3.01 × 10 ⁻³	0.75	3.35
		○ BNFN 2505-2.5	25.75	22.2	1 × 2.5	9.2	22	470	50	73	75	11	64	52	61	5.5 × 9.5 × 5.5	—	M6	3.01 × 10 ⁻³	0.92	3.35
		○ BNFN 2505-3	25.75	22.2	2 × 1.5	10.8	26.4	560	50	73	102	11	91	79	61	5.5 × 9.5 × 5.5	—	M6	3.01 × 10 ⁻³	1.19	3.35
		○ BNFN 2505-3.5	25.75	22.2	1 × 3.5	12.3	30.7	650	50	73	85	11	74	62	61	5.5 × 9.5 × 5.5	—	M6	3.01 × 10 ⁻³	1.02	3.35
		○ BNFN 2505-5	25.75	22.2	2 × 2.5	16.7	44	910	50	73	105	11	94	82	61	5.5 × 9.5 × 5.5	—	M6	3.01 × 10 ⁻³	1.22	3.35
		6	DIK 2506-4	26	21.4	2 × 1	9.1	18	330	40	63	60	11	49	10	51	5.5 × 9.5 × 5.5	41	M6	3.01 × 10 ⁻³	0.46
	DIK 2506-6		26	21.4	3 × 1	12.8	27	490	40	63	72	11	61	15	51	5.5 × 9.5 × 5.5	41	M6	3.01 × 10 ⁻³	0.54	3.19

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 B-778.

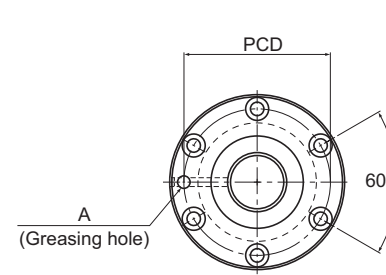
For model number coding, see B-718.

Preload Type of Precision Ball Screw

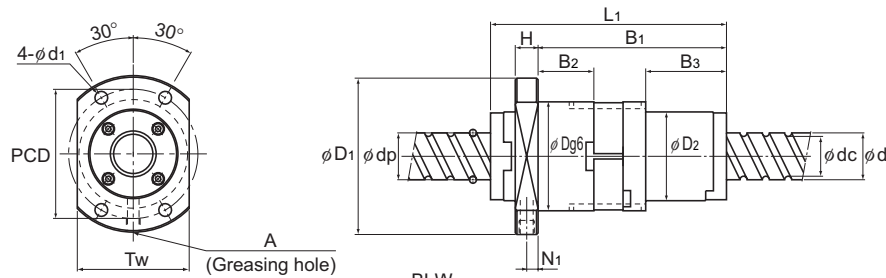
Screw shaft outer diameter	25
Lead	6 to 25



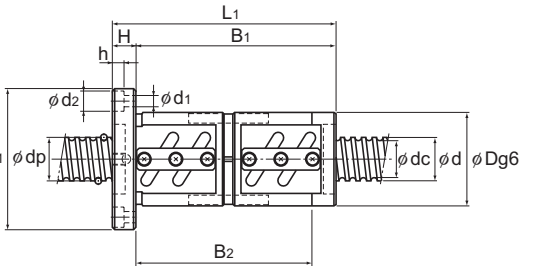
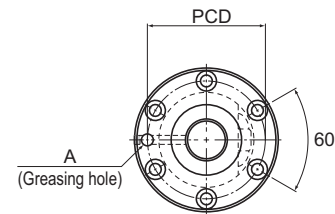
DIK (1404 to 2510)



BIF



BLW



BNFN

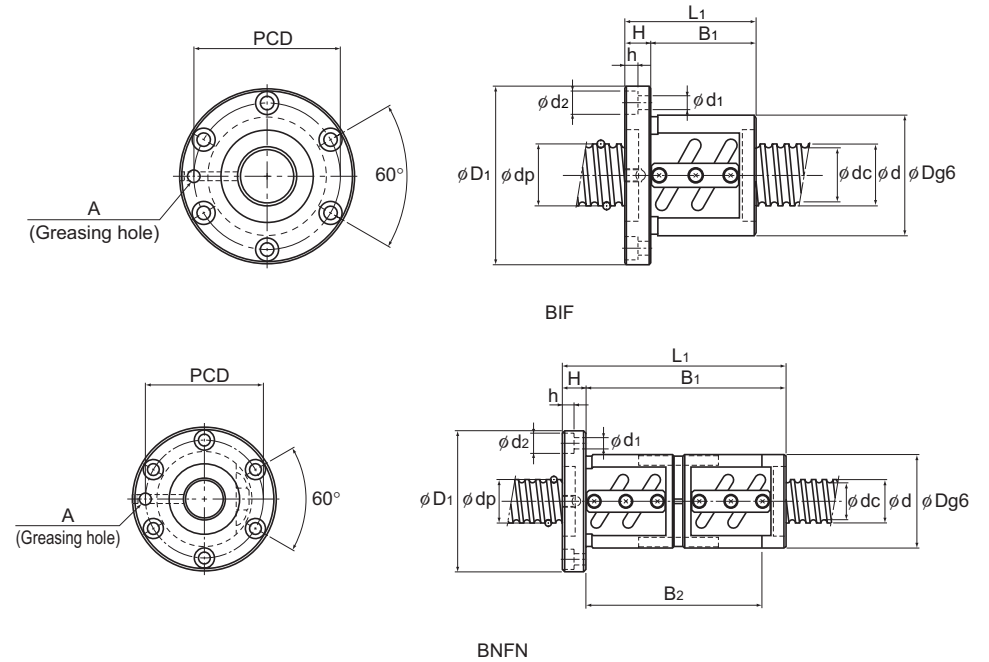
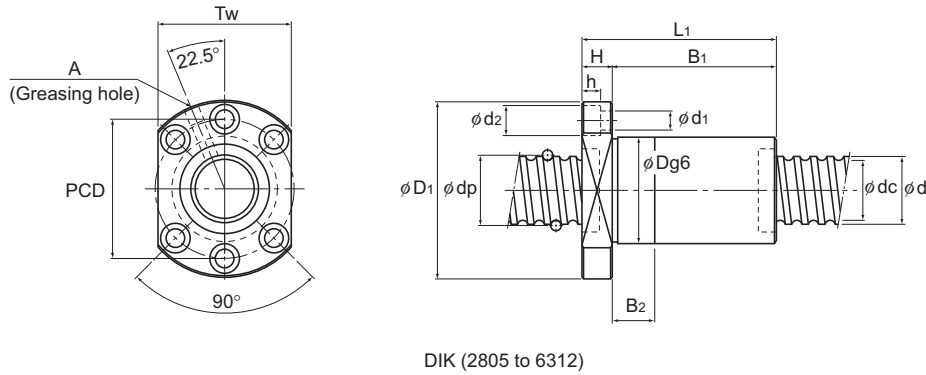
Screw shaft outer diameter d	Lead Ph	Model No.	Ball center-to-center diameter dp	Thread minor diameter dc	No. of loaded circuits Rows x turns	Basic load rating			Nut dimensions											Screw shaft inertial moment/mm ² kg·cm ² /mm	Nut mass kg	Shaft mass kg/m				
						Ca kN	Coa kN	K N/μm	Outer diameter D	Flange diameter D ₁	D ₂	Overall length L ₁	H	B ₁	B ₂	B ₃	PCD	d ₁	d ₂				h	Tw	N ₁	A Greasing hole
25	6	○ BNFN 2506-2.5	26	21.4	1×2.5	12.5	27.3	490	53	76	—	86	11	75	—	—	64	5.5	9.5	5.5	—	—	M6	3.01×10 ⁻³	1.19	3.19
		○ BNFN 2506-3	26	21.4	2×1.5	14.6	32.8	580	53	76	—	110	11	99	—	—	64	5.5	9.5	5.5	—	—	M6	3.01×10 ⁻³	1.47	3.19
		○ BNFN 2506-3.5	26	21.4	1×3.5	15.1	35.9	670	53	76	—	98	11	87	—	—	64	5.5	9.5	5.5	—	—	M6	3.01×10 ⁻³	1.33	3.19
		○ BNFN 2506-5	26	21.4	2×2.5	22.5	54.8	940	53	76	—	122	11	111	—	—	64	5.5	9.5	5.5	—	—	M6	3.01×10 ⁻³	1.61	3.19
	8	DIK 2508-4	26	21.4	2×1	9.2	18.8	340	40	63	—	71	12	59	15	—	51	5.5	9.5	5.5	41	—	M6	3.01×10 ⁻³	0.54	3.35
		DIK 2508-6	26	21.4	3×1	13.1	28.1	500	40	63	—	94	12	82	25	—	51	5.5	9.5	5.5	41	—	M6	3.01×10 ⁻³	0.68	3.35
		○ BIF 2508-5	26.25	20.5	1×2.5	15.8	32.8	500	58	85	—	82	15	67	—	—	71	6.6	11	6.5	—	—	M6	3.01×10 ⁻³	1.52	3.13
		○ BNFN 2508-2.5	26.25	20.5	1×2.5	15.8	32.8	500	58	85	—	106	15	91	—	—	71	6.6	11	6.5	—	—	M6	3.01×10 ⁻³	1.89	3.13
		○ BNFN 2508-3	26.25	20.5	2×1.5	18.5	39.4	600	58	85	—	135	15	120	—	—	71	6.6	11	6.5	—	—	M6	3.01×10 ⁻³	2.32	3.13
		○ BNFN 2508-3.5	26.25	20.5	1×3.5	21.2	46	690	58	85	—	122	15	107	—	—	71	6.6	11	6.5	—	—	M6	3.01×10 ⁻³	2.12	3.13
	10	○ BNFN 2508-5	26.25	20.5	2×2.5	28.7	65.8	970	58	85	—	154	15	139	—	—	71	6.6	11	6.5	—	—	M6	3.01×10 ⁻³	2.6	3.13
		DIK 2510-4	26	21.6	2×1	9	18	330	40	63	—	85	15	70	20	—	51	5.5	9.5	5.5	41	—	M6	3.01×10 ⁻³	0.65	3.45
		○ BIF 2510A-5	26.3	21.4	1×2.5	15.8	33	500	58	85	—	100	18	82	—	—	71	6.6	11	6.5	—	—	M6	3.01×10 ⁻³	1.86	3.27
		○ BNFN 2510A-2.5	26.3	21.4	1×2.5	15.8	33	500	58	85	—	120	18	102	83	—	71	6.6	11	6.5	—	—	M6	3.01×10 ⁻³	2.16	3.27
○ BNFN 2512-2.5		26	21.9	1×2.5	12.3	27.6	490	53	76	—	108	11	97	—	—	64	5.5	9.5	5.5	—	—	M6	3.01×10 ⁻³	1.44	3.52	
○ BNFN 2516-1.5		26	21.4	1×1.5	7.9	16.7	300	53	76	—	108	11	97	—	—	64	5.5	9.5	5.5	—	—	M6	3.01×10 ⁻³	1.44	3.6	
BLW 2525-3.6		26	22	2×1.8	16.6	38.7	700	57	82	47	124.5	12	101.5	33	44	68	6.6	—	—	60	5	M6	3.01×10 ⁻³	0.94	3.52	

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 B-778. Model BLW cannot be attached with seal.

For model number coding, see B-718.

Preload Type of Precision Ball Screw

Screw shaft outer diameter	28
Lead	5 to 10



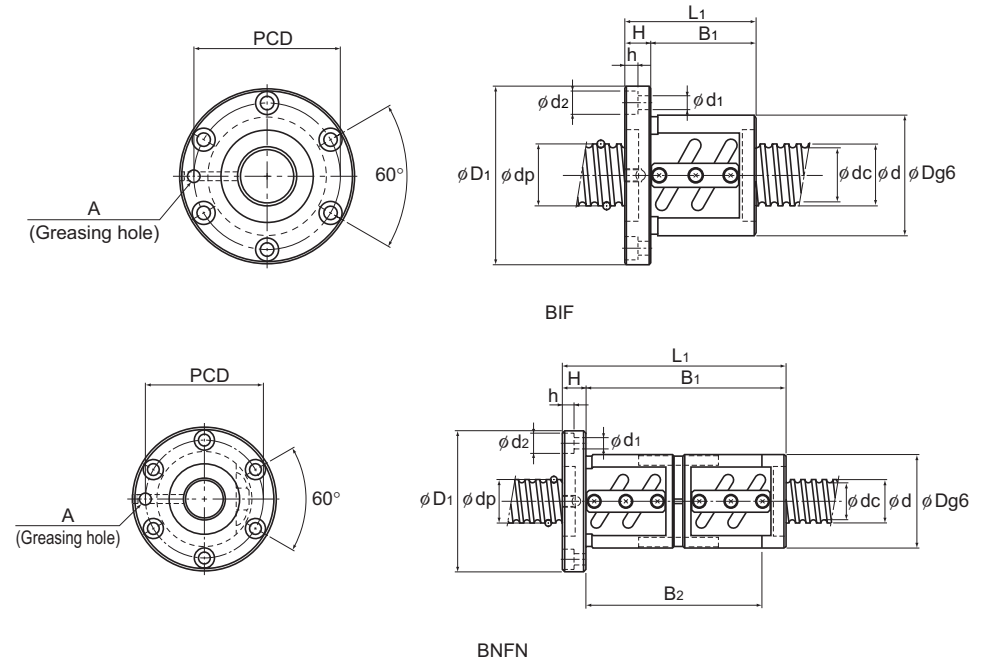
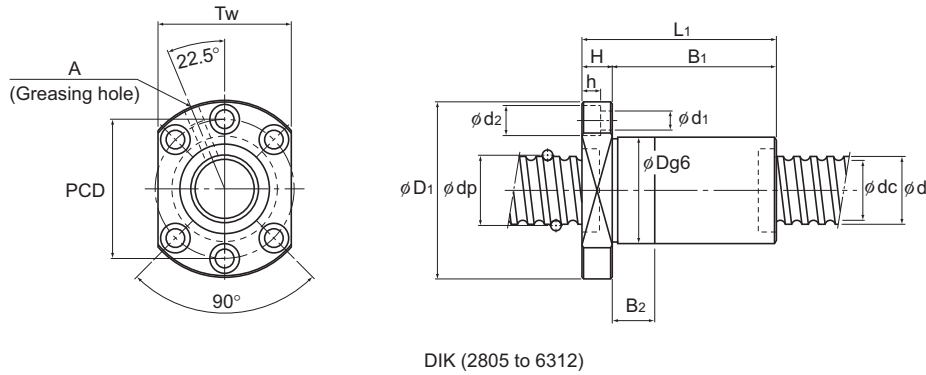
Screw shaft outer diameter d	Lead Ph	Model No.	Ball center-to-center diameter dp	Thread minor diameter dc	No. of loaded circuits Rows x turns	Basic load rating		Rigidity K N/μm	Nut dimensions											Screw shaft inertial moment/mm ³ kg·cm ³ /mm	Nut mass kg	Shaft mass kg/m
						Ca kN	Ca kN		Outer diameter D	Flange diameter D1	Overall length L1	H	B1	B2	PCD	d1×d2×h	Tw	Greasing hole A				
																			kg			
28	5	BIF 2805-5	28.75	25.2	1×2.5	9.7	24.6	520	55	85	59	12	47	—	69	6.6×11×6.5	—	M6	4.74×10 ⁻³	0.98	4.27	
		BIF 2805-10	28.75	25.2	2×2.5	17.4	49.4	1000	55	85	89	12	77	—	69	6.6×11×6.5	—	M6	4.74×10 ⁻³	1.34	4.27	
		DIK 2805-6	28.75	25.2	3×1	10.5	26.4	560	43	71	69	12	57	15	57	6.6×11×6.5	55	M6	4.74×10 ⁻³	0.61	4.27	
		DIK 2805-8	28.75	25.2	4×1	13.4	35.2	730	43	71	79	12	67	20	57	6.6×11×6.5	55	M6	4.74×10 ⁻³	0.68	4.27	
		BNFN 2805-2.5	28.75	25.2	1×2.5	9.7	24.6	520	55	85	74	12	62	49	69	6.6×11×6.5	—	M6	4.74×10 ⁻³	1.16	4.27	
		BNFN 2805-3	28.75	25.2	2×1.5	11.3	29.5	620	55	85	94	12	82	69	69	6.6×11×6.5	—	M6	4.74×10 ⁻³	1.4	4.27	
		BNFN 2805-3.5	28.75	25.2	1×3.5	12.9	34.4	720	55	85	84	12	72	59	69	6.6×11×6.5	—	M6	4.74×10 ⁻³	1.28	4.27	
		BNFN 2805-5	28.75	25.2	2×2.5	17.5	49.4	1000	55	85	104	12	92	79	69	6.6×11×6.5	—	M6	4.74×10 ⁻³	1.52	4.27	
	BNFN 2805-7.5	28.75	25.2	3×2.5	24.8	73.8	1470	55	85	134	12	122	109	69	6.6×11×6.5	—	M6	4.74×10 ⁻³	1.88	4.27		
	BIF 2806-5	28.75	25.2	1×2.5	9.6	24.6	520	55	85	68	12	56	—	69	6.6×11×6.5	—	M6	4.74×10 ⁻³	1.09	4.36		
	BIF 2806-10	28.75	25.2	2×2.5	17.5	49.4	1000	55	85	104	12	92	—	69	6.6×11×6.5	—	M6	4.74×10 ⁻³	1.52	4.36		
	DIK 2806-6	29	24.4	3×1	14	32	530	43	71	73	12	61	15	57	6.6×11×6.5	55	M6	4.74×10 ⁻³	0.64	4.36		
	BNFN 2806-2.5	28.75	25.2	1×2.5	9.6	24.6	520	55	85	86	12	74	61	69	6.6×11×6.5	—	M6	4.74×10 ⁻³	1.3	4.36		
	BNFN 2806-3.5	28.75	25.2	1×3.5	12.9	34.5	710	55	85	98	12	86	73	69	6.6×11×6.5	—	M6	4.74×10 ⁻³	1.45	4.36		
	BNFN 2806-5	28.75	25.2	2×2.5	17.5	49.4	1000	55	85	122	12	110	97	69	6.6×11×6.5	—	M6	4.74×10 ⁻³	1.73	4.36		
	BNFN 2806-7.5	28.75	25.2	3×2.5	24.8	73.8	1470	55	85	158	12	146	133	69	6.6×11×6.5	—	M6	4.74×10 ⁻³	2.16	4.36		
	BNFN 2808-2.5	29.25	23.6	1×2.5	16.8	36.8	550	60	104	116	18	98	—	82	11×17.5×11	—	M6	4.74×10 ⁻³	2.47	4.02		
	BNFN 2808-3	29.25	23.6	2×1.5	19.6	44.2	660	60	104	144	18	126	—	82	11×17.5×11	—	M6	4.74×10 ⁻³	2.9	4.02		
	BNFN 2808-5	29.25	23.6	2×2.5	30.4	73.7	1060	60	104	164	18	146	—	82	11×17.5×11	—	M6	4.74×10 ⁻³	3.2	4.02		
	BIF 2810-3	29.75	22.4	1×1.5	15.7	29.4	350	65	106	88	18	70	—	85	11×17.5×11	—	M6	4.74×10 ⁻³	2.33	3.66		
DIK 2810-4	29.25	23.6	2×1	12.3	25	380	45	71	84	15	69	20	57	6.6×11×6.5	55	M6	4.74×10 ⁻³	0.82	4.18			
BNFN 2810-2.5	29.75	22.4	1×2.5	24	48.2	560	65	106	146	18	128	—	85	11×17.5×11	—	M6	4.74×10 ⁻³	3.41	3.66			

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

For model number coding, see B-718.

Preload Type of Precision Ball Screw

Screw shaft outer diameter	32
Lead	4 to 6



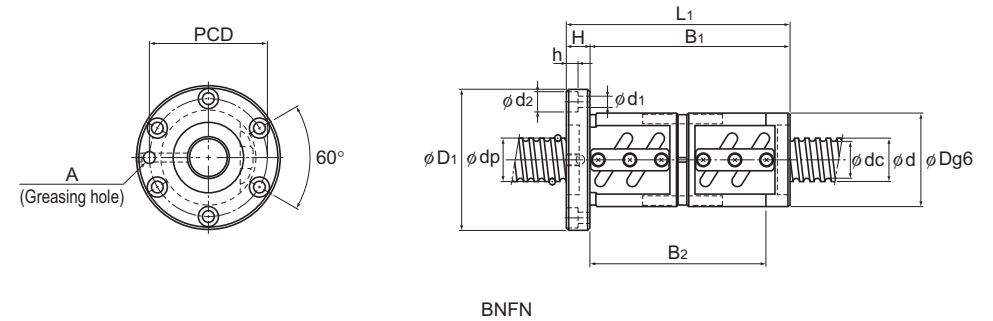
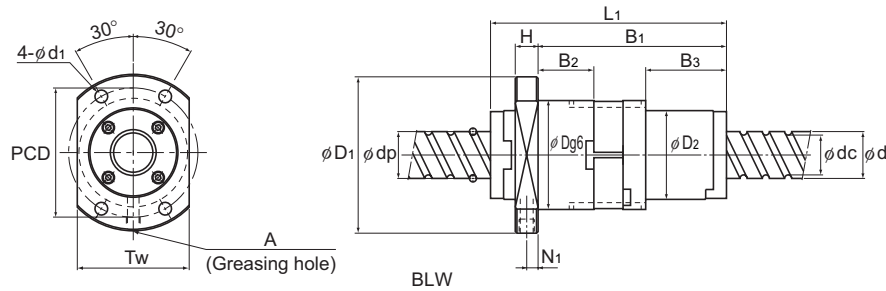
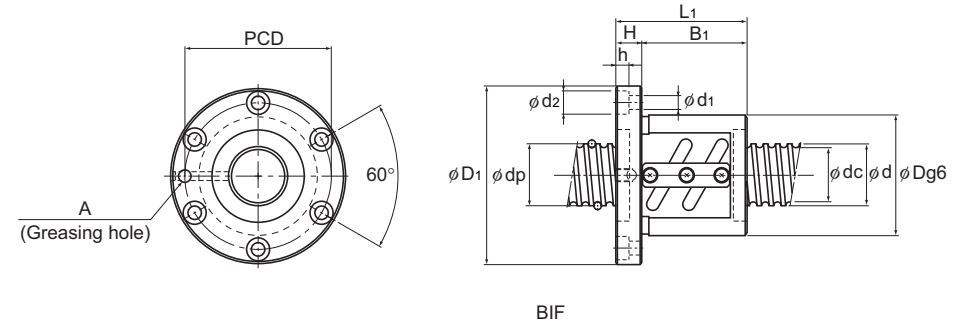
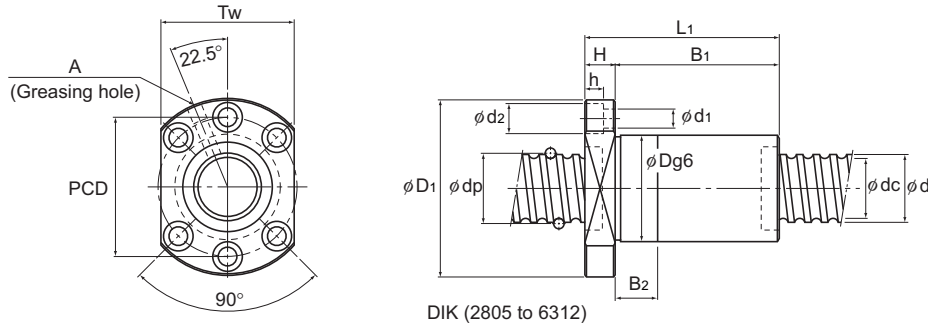
Screw shaft outer diameter d	Lead Ph	Model No.	Ball center-to-center diameter dp	Thread minor diameter dc	No. of loaded circuits Rows x turns	Basic load rating		Rigidity K N/μm	Nut dimensions											Screw shaft inertial moment/mm ³ kg·cm ³ /mm	Nut mass kg	Shaft mass kg/m
						Ca kN	Ca kN		Outer diameter D	Flange diameter D1	Overall length L1	H	B1	B2	PCD	d1×d2×h	Tw	Greasing hole A				
																			kg			
32	4	BIF 3204-10	32.5	30.1	2×2.5	10.5	35.4	1010	54	81	76	11	65	—	67	6.6×11×6.5	—	M6	8.08×10 ⁻³	0.97	5.86	
		DIK 3204-6	32.5	30.1	3×1	6.4	19.6	580	45	76	64	11	53	15	63	6.6×11×6.5	59	M6	8.08×10 ⁻³	0.57	5.86	
		DIK 3204-8	32.5	30.1	4×1	8.2	26.1	760	45	76	72	11	61	15	63	6.6×11×6.5	59	M6	8.08×10 ⁻³	0.62	5.86	
		DIK 3204-10	32.5	30.1	5×1	10	32.7	940	45	76	80	11	69	20	63	6.6×11×6.5	59	M6	8.08×10 ⁻³	0.66	5.86	
	5	DIK 3205-6	32.75	29.2	3×1	11.1	30.2	620	46	76	62	12	50	10	63	6.6×11×6.5	59	M6	8.08×10 ⁻³	0.60	5.67	
		DIK 3205-8	32.75	29.2	4×1	14.2	40.3	810	46	76	73	12	61	15	63	6.6×11×6.5	59	M6	8.08×10 ⁻³	0.67	5.67	
		○ BIF 3205-5	32.75	29.2	1×2.5	10.2	28.1	570	58	85	56	12	44	—	71	6.6×11×6.5	—	M6	8.08×10 ⁻³	0.94	5.67	
		○ BIF 3205-10	32.75	29.2	2×2.5	18.5	56.4	1110	58	85	86	12	74	—	71	6.6×11×6.5	—	M6	8.08×10 ⁻³	1.31	5.67	
		○ BNFN 3205-2.5	32.75	29.2	1×2.5	10.2	28.1	570	58	85	76	12	64	51	71	6.6×11×6.5	—	M6	8.08×10 ⁻³	1.19	5.67	
		○ BNFN 3205-3	32.75	29.2	2×1.5	12	33.8	690	58	85	103	12	91	78	71	6.6×11×6.5	—	M6	8.08×10 ⁻³	1.52	5.67	
		○ BNFN 3205-4.5	32.75	29.2	3×1.5	17	50.7	1000	58	85	123	12	111	98	71	6.6×11×6.5	—	M6	8.08×10 ⁻³	1.77	5.67	
		○ BNFN 3205-5	32.75	29.2	2×2.5	18.5	56.4	1110	58	85	106	12	94	81	71	6.6×11×6.5	—	M6	8.08×10 ⁻³	1.56	5.67	
	○ BNFN 3205-7.5	32.75	29.2	3×2.5	26.3	84.5	1640	58	85	136	12	124	111	71	6.6×11×6.5	—	M6	8.08×10 ⁻³	1.93	5.67		
	6	DIK 3206-6	33	28.4	3×1	14.9	37.1	630	48	76	73	12	61	15	63	6.6×11×6.5	59	M6	8.08×10 ⁻³	0.74	6.31	
		DIK 3206-8	33	28.4	4×1	19.1	49.5	820	48	76	87	12	75	20	63	6.6×11×6.5	59	M6	8.08×10 ⁻³	0.85	6.31	
		○ BIF 3206-5	33	28.4	1×2.5	13.9	35.2	600	62	89	63	12	51	—	75	6.6×11×6.5	—	M6	8.08×10 ⁻³	1.21	6.31	
		○ BIF 3206-7	33	28.4	1×3.5	18.5	49.2	810	62	89	75	12	63	—	75	6.6×11×6.5	—	M6	8.08×10 ⁻³	1.39	6.31	
		○ BIF 3206-10	33	28.4	2×2.5	25.2	70.4	1150	62	89	99	12	87	—	75	6.6×11×6.5	—	M6	8.08×10 ⁻³	1.75	6.31	
		○ BNFN 3206-2.5	33	28.4	1×2.5	13.9	35.2	600	62	89	87	12	75	62	75	6.6×11×6.5	—	M6	8.08×10 ⁻³	1.57	6.31	
		○ BNFN 3206-3	33	28.4	2×1.5	16.3	42.2	710	62	89	111	12	99	86	75	6.6×11×6.5	—	M6	8.08×10 ⁻³	1.93	6.31	
○ BNFN 3206-5		33	28.4	2×2.5	25.2	70.4	1150	62	89	123	12	111	98	75	6.6×11×6.5	—	M6	8.08×10 ⁻³	2.11	6.31		

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 B-778.

For model number coding, see B-718.

Preload Type of Precision Ball Screw

Screw shaft outer diameter	32
Lead	8 to 32



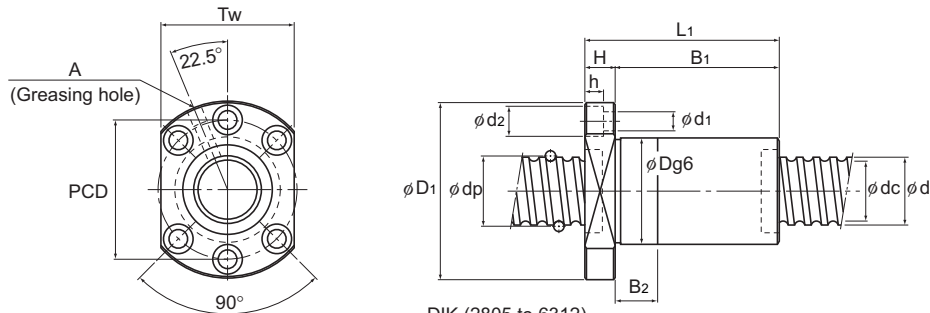
Screw shaft outer diameter d	Lead Ph	Model No.	Ball center-to-center diameter dp	Thread minor diameter dc	No. of loaded circuits Rows x turns	Basic load rating		Rigidity K N/μm	Nut dimensions													Screw shaft inertial moment/mm ³ kg·cm ² /mm	Nut mass kg	Shaft mass kg/m		
						Ca	Ca		Outer diameter D	Flange diameter D ₁	D ₂	Overall length L ₁	H	B ₁	B ₂	B ₃	PCD	d ₁	d ₂	h	Tw				N ₁	Greasing hole A
						kN	kN																			
32	8	○ BIF 3208A-5	33.25	27.5	1×2.5	17.8	42.2	610	66	100	—	82	15	67	—	—	82	9	14	8.5	—	—	M6	8.08×10 ⁻³	1.93	5.39
		○ BIF 3208A-7	33.25	27.5	1×3.5	23.8	59.1	840	66	100	—	98	15	83	—	—	82	9	14	8.5	—	—	M6	8.08×10 ⁻³	2.21	5.39
		○ BNFN 3208A-2.5	33.25	27.5	1×2.5	17.8	42.2	610	66	100	—	106	15	91	—	—	82	9	14	8.5	—	—	M6	8.08×10 ⁻³	2.36	5.39
		○ BNFN 3208A-3	33.25	27.5	2×1.5	20.9	50.7	730	66	100	—	135	15	120	—	—	82	9	14	8.5	—	—	M6	8.08×10 ⁻³	2.88	5.39
		○ BNFN 3208A-4.5	33.25	27.5	3×1.5	29.5	76	1070	66	100	—	167	15	152	—	—	82	9	14	8.5	—	—	M6	8.08×10 ⁻³	3.45	5.39
		○ BNFN 3208A-5	33.25	27.5	2×2.5	32.3	84.4	1180	66	100	—	154	15	139	—	—	82	9	14	8.5	—	—	M6	8.08×10 ⁻³	3.21	5.39
	10	DIK 3210-6	33.75	26.4	3×1	25.7	52.2	600	54	87	—	110	15	95	25	—	69	9	14	8.5	66	—	M6	8.08×10 ⁻³	1.57	4.98
		○ BIF 3210A-5	33.75	26.4	1×2.5	26.1	56.2	640	74	108	—	100	15	85	—	—	90	9	14	8.5	—	—	M6	8.08×10 ⁻³	2.92	4.98
		○ BNFN 3210A-2.5	33.75	26.4	1×2.5	26.1	56.2	640	74	108	—	130	15	115	99	—	90	9	14	8.5	—	—	M6	8.08×10 ⁻³	3.64	4.98
		○ BNFN 3210A-3	33.75	26.4	2×1.5	30.5	67.4	750	74	108	—	167	15	152	136	—	90	9	14	8.5	—	—	M6	8.08×10 ⁻³	4.53	4.98
		○ BNFN 3210A-3.5	33.75	26.4	1×3.5	34.8	78.6	870	74	108	—	150	15	135	119	—	90	9	14	8.5	—	—	M6	8.08×10 ⁻³	4.12	4.98
		○ BNFN 3210A-5	33.75	26.4	2×2.5	47.2	112.7	1230	74	108	—	190	15	175	159	—	90	9	14	8.5	—	—	M6	8.08×10 ⁻³	5.08	4.98
	12	DIK 3212-4	33.75	26.4	2×1	18.8	37	430	54	87	—	98	15	83	25	—	69	9	14	8.5	66	—	M6	8.08×10 ⁻³	1.43	5.2
		○ BNFN 3212-3.5	34	26.1	1×3.5	40.4	88.5	890	76	121	—	170	18	152	—	—	98	11	17.5	11	—	—	M6	8.08×10 ⁻³	5.26	4.9
	32	BLW 3232-3.6	33.25	28.3	2×1.8	23.7	59.5	880	68	99	58	155	15	127	42.4	55.4	81	9	—	—	70	6	M6	8.08×10 ⁻³	3.19	5.83

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 B-778.
 Model BLW cannot be attached with seal.

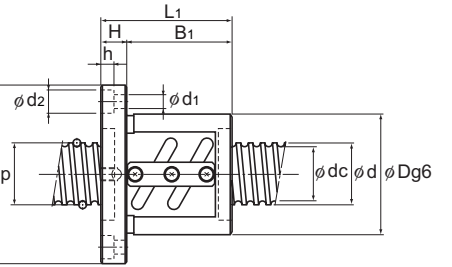
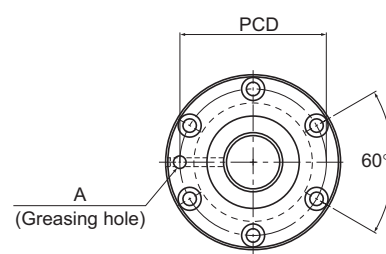
For model number coding, see B-718.

Preload Type of Precision Ball Screw

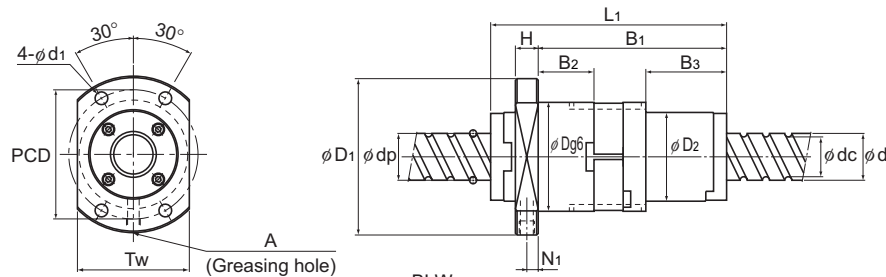
Screw shaft outer diameter	36
Lead	6 to 36



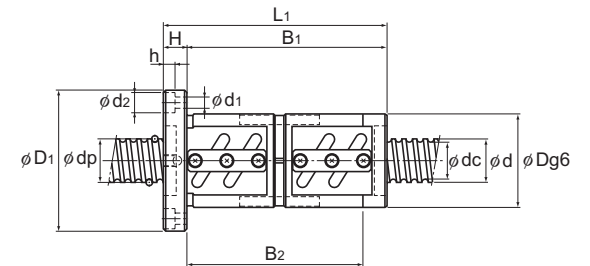
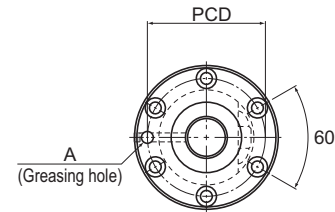
DIK (2805 to 6312)



BIF



BLW



BNFN

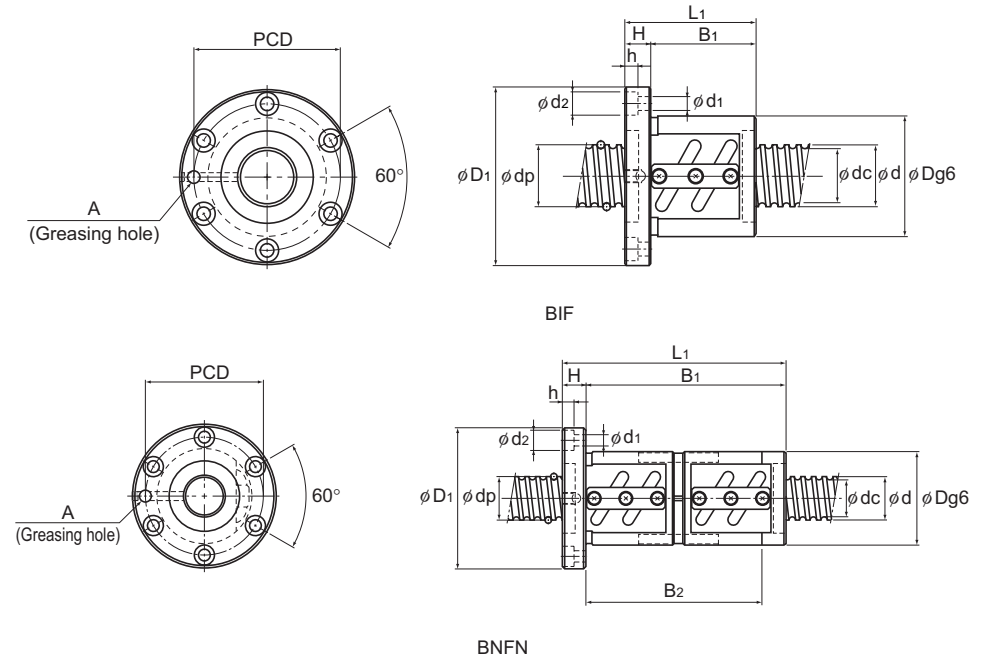
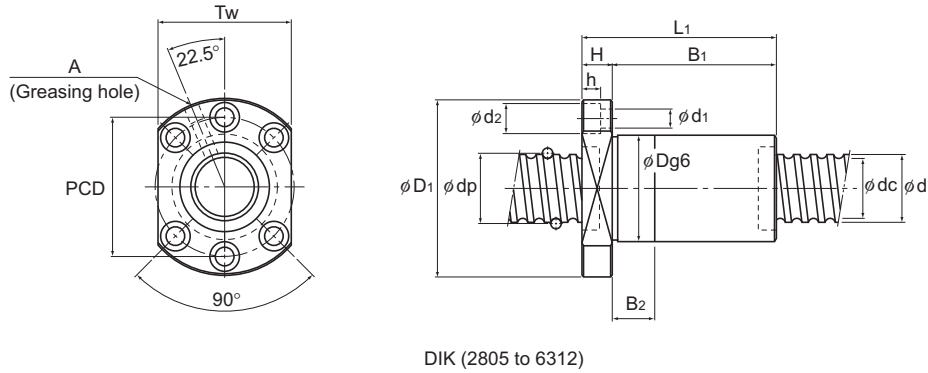
Screw shaft outer diameter d	Lead Ph	Model No.	Ball center-to-center diameter dp	Thread minor diameter dc	No. of loaded circuits Rows x turns	Basic load rating			Nut dimensions											Screw shaft inertial moment/mm ² kg·cm ² /mm	Nut mass kg	Shaft mass kg/m				
						Ca kN	Coa kN	K N/μm	Outer diameter D	Flange diameter D1	D2	Overall length L1	H	B1	B2	B3	PCD	d1	d2				h	Tw	N1	Greasing hole A
36	6	○ BNFN 3606-2.5	36.75	33.2	1×2.5	10.7	31.8	630	65	100	—	89	15	74	58	—	82	9	14	8.5	—	—	M6	1.29×10 ⁻²	1.85	7.39
		○ BNFN 3606-3	36.75	33.2	2×1.5	12.5	38	740	65	100	—	110	15	95	79	—	82	9	14	8.5	—	—	M6	1.29×10 ⁻²	2.18	7.39
		○ BNFN 3606-5	36.75	33.2	2×2.5	19.4	63.4	1220	65	100	—	125	15	110	94	—	82	9	14	8.5	—	—	M6	1.29×10 ⁻²	2.41	7.39
		○ BNFN 3606-7.5	36.75	33.2	3×2.5	27.5	95.2	1790	65	100	—	161	15	146	130	—	82	9	14	8.5	—	—	M6	1.29×10 ⁻²	2.96	7.39
	8	○ BNFN 3608-2.5	37.25	31.6	1×2.5	18.8	47.5	670	70	114	—	116	18	98	—	—	92	11	17.5	11	—	—	M6	1.29×10 ⁻²	3.03	6.96
		○ BNFN 3608-5	37.25	31.6	2×2.5	34.1	95.1	1290	70	114	—	164	18	146	—	—	92	11	17.5	11	—	—	M6	1.29×10 ⁻²	3.95	6.96
		○ BNFN 3608-7.5	37.25	31.6	3×2.5	48.3	142.1	1910	70	114	—	212	18	194	—	—	92	11	17.5	11	—	—	M6	1.29×10 ⁻²	4.87	6.96
		○ DIK 3610-6	37.75	30.5	3×1	28.8	63.8	710	58	98	—	122	18	104	30	—	77	11	17.5	11	75	—	M6	1.29×10 ⁻²	2.03	6.51
	10	○ DIK 3610-8	37.75	30.5	4×1	36.8	85	940	58	98	—	143	18	125	35	—	77	11	17.5	11	75	—	M6	1.29×10 ⁻²	2.3	6.51
		○ DIK 3610-10	37.75	30.5	5×1	44.6	106.3	1160	58	98	—	164	18	146	45	—	77	11	17.5	11	75	—	M6	1.29×10 ⁻²	2.57	6.51
		○ BIF 3610-5	37.75	30.5	1×2.5	27.6	63.3	700	75	120	—	111	18	93	—	—	98	11	17.5	11	—	—	M6	1.29×10 ⁻²	3.45	6.51
		○ BIF 3610-10	37.75	30.5	2×2.5	50.1	126.4	1350	75	120	—	171	18	153	—	—	98	11	17.5	11	—	—	M6	1.29×10 ⁻²	4.84	6.51
		○ BNFN 3610-2.5	37.75	30.5	1×2.5	27.6	63.3	700	75	120	—	141	18	123	104	—	98	11	17.5	11	—	—	M6	1.29×10 ⁻²	4.15	6.51
		○ BNFN 3610-5	37.75	30.5	2×2.5	50.1	126.4	1350	75	120	—	201	18	183	164	—	98	11	17.5	11	—	—	M6	1.29×10 ⁻²	5.54	6.51
		○ BNFN 3610-7.5	37.75	30.5	3×2.5	71.1	190.1	1990	75	120	—	261	18	243	224	—	98	11	17.5	11	—	—	M6	1.29×10 ⁻²	6.93	6.51
		○ BNFN 3612-2.5	38	30.1	1×2.5	32.1	71.4	720	78	123	—	147	18	129	—	—	100	11	17.5	11	—	—	M6	1.29×10 ⁻²	4.69	6.41
		○ BNFN 3612-5	38	30.1	2×2.5	58.4	142.1	1370	78	123	—	219	18	201	—	—	100	11	17.5	11	—	—	M6	1.29×10 ⁻²	6.54	6.41
		○ BNFN 3616-2.5	38	30.1	1×2.5	32.1	71.4	720	78	123	—	172	18	154	—	—	100	11	17.5	11	—	—	M6	1.29×10 ⁻²	5.33	6.8
		○ BNFN 3616-5	38	30.1	2×2.5	58.3	143.1	1380	78	123	—	268	18	250	—	—	100	11	17.5	11	—	—	M6	1.29×10 ⁻²	7.8	6.8
		○ BNFN 3620-1.5	37.75	30.5	1×1.5	17.6	38.3	430	70	103	—	135	15	120	—	—	85	9	14	8.5	—	—	M6	1.29×10 ⁻²	3.06	7.24
36	BLW 3636-3.6	37.4	31.7	2×1.8	30.8	78	980	79	116	66	181	17	147.9	49.4	65.4	85	9	14	8.5	—	—	M6	1.29×10 ⁻²	5.99	7.34	

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 B-778. Model BLW cannot be attached with seal.

For model number coding, see B-718.

Preload Type of Precision Ball Screw

Screw shaft outer diameter	40
Lead	5 to 10



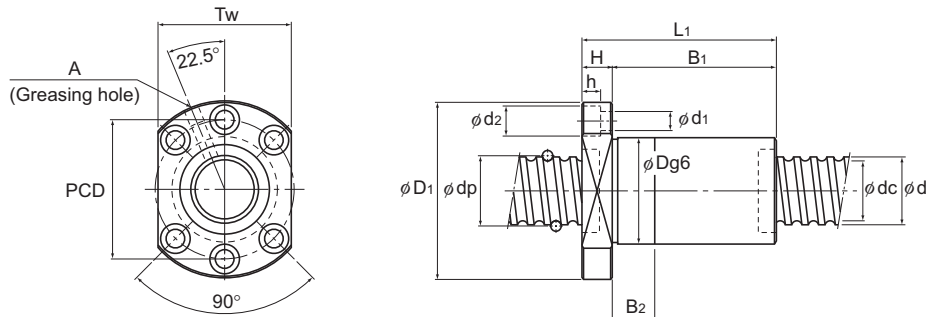
Screw shaft outer diameter d	Lead Ph	Model No.	Ball center-to-center diameter dp	Thread minor diameter dc	No. of loaded circuits Rows x turns	Basic load rating		Rigidity K N/μm	Nut dimensions							Screw shaft inertial moment/mm kg·cm ² /mm	Nut mass kg	Shaft mass kg/m			
						Ca kN	Ca kN		Outer diameter D	Flange diameter D ₁	Overall length L ₁	H	B ₁	B ₂	PCD				d ₁ × d ₂ × h	Tw	Greasing hole A
40	5	BNFN 4005-3	40.75	37.2	2×1.5	13	42.3	810	67	101	106	15	91	—	83	9×14×8.5	—	M6	1.97×10 ⁻²	2.07	9.06
		BNFN 4005-4.5	40.75	37.2	3×1.5	18.5	63.5	1200	67	101	126	15	111	—	83	9×14×8.5	—	M6	1.97×10 ⁻²	2.37	9.06
		BNFN 4005-5	40.75	37.2	2×2.5	20.3	70.6	1320	67	101	109	15	94	—	83	9×14×8.5	—	M6	1.97×10 ⁻²	2.11	9.06
		BNFN 4005-6	40.75	37.2	4×1.5	23.7	84.7	1580	67	101	156	15	141	—	83	9×14×8.5	—	M6	1.97×10 ⁻²	2.82	9.06
	6	BNFN 4006-2.5	41	36.4	1×2.5	15.3	44.1	710	70	104	90	15	75	—	86	9×14×8.5	—	M6	1.97×10 ⁻²	2.05	8.82
		BNFN 4006-5	41	36.4	2×2.5	27.7	88.1	1360	70	104	126	15	111	—	86	9×14×8.5	—	M6	1.97×10 ⁻²	2.67	8.82
		BNFN 4006-7.5	41	36.4	3×2.5	39.2	132.3	2010	70	104	162	15	147	—	86	9×14×8.5	—	M6	1.97×10 ⁻²	3.29	8.82
	8	BNFN 4008-2.5	41.25	35.5	1×2.5	19.6	52.8	730	74	108	106	15	91	—	90	9×14×8.5	—	M6	1.97×10 ⁻²	2.69	8.72
		BNFN 4008-3	41.25	35.5	2×1.5	22.9	63.4	860	74	108	135	15	120	—	90	9×14×8.5	—	M6	1.97×10 ⁻²	3.28	8.72
		BNFN 4008-5	41.25	35.5	2×2.5	35.7	105.8	1410	74	108	154	15	139	—	90	9×14×8.5	—	M6	1.97×10 ⁻²	3.67	8.72
	10	BIF 4010-5	41.75	34.4	1×2.5	29	70.4	750	82	124	103	18	85	—	102	11×17.5×11	—	M6	1.97×10 ⁻²	3.69	8.22
		BIF 4010-10	41.75	34.4	2×2.5	52.7	141.1	1470	82	124	163	18	145	—	102	11×17.5×11	—	M6	1.97×10 ⁻²	5.33	8.22
		DIK 4010-6	41.75	34.7	3×1	29.8	69.3	750	62	104	113	18	95	25	82	11×17.5×11	79	PT 1/8	1.97×10 ⁻²	2.09	8.22
		DIK 4010-8	41.75	34.7	4×1	38.1	92.4	1000	62	104	137	18	119	35	82	11×17.5×11	79	PT 1/8	1.97×10 ⁻²	2.42	8.22
		BNFN 4010-2.5	41.75	34.4	1×2.5	29	70.4	750	82	124	133	18	115	96	102	11×17.5×11	—	M6	1.97×10 ⁻²	4.51	8.22
		BNFN 4010-3	41.75	34.4	2×1.5	33.8	84.5	900	82	124	170	18	152	133	102	11×17.5×11	—	M6	1.97×10 ⁻²	5.52	8.22
BNFN 4010-3.5		41.75	34.4	1×3.5	38.8	99	1050	82	124	153	18	135	116	102	11×17.5×11	—	M6	1.97×10 ⁻²	5.06	8.22	
BNFN 4010-5		41.75	34.4	2×2.5	52.7	141.1	1470	82	124	193	18	175	156	102	11×17.5×11	—	M6	1.97×10 ⁻²	6.16	8.22	

Note) The model numbers in dimmed type indicate semi-standard types. If desiring them, contact THK.
 These models can be attached with QZ Lubricator or the wiper ring.
 For dimensions of the ball screw nut with either accessory being attached, see B-778.

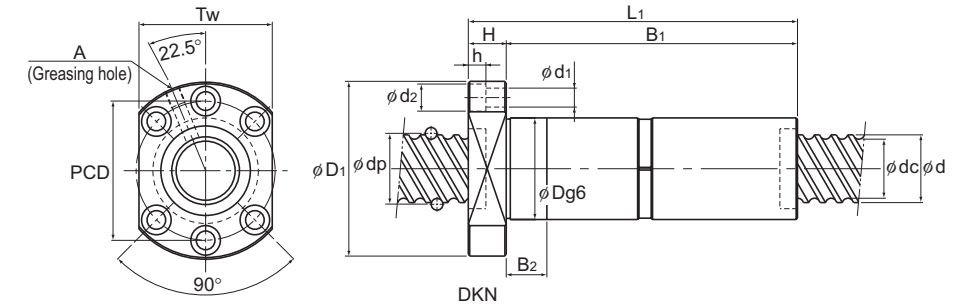
For model number coding, see B-718.

Preload Type of Precision Ball Screw

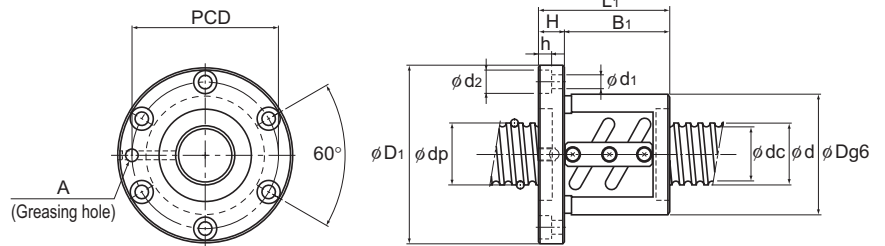
Screw shaft outer diameter	40
Lead	12 to 40



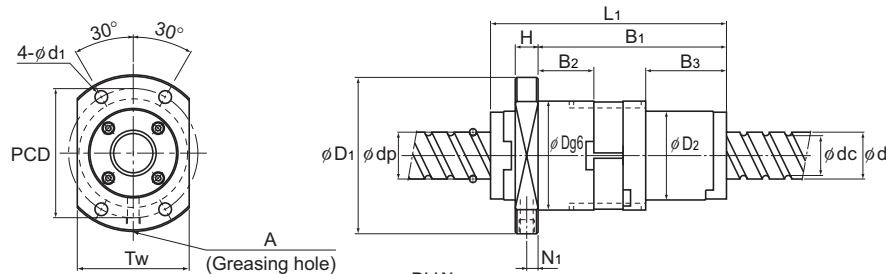
DIK (2805 to 6312)



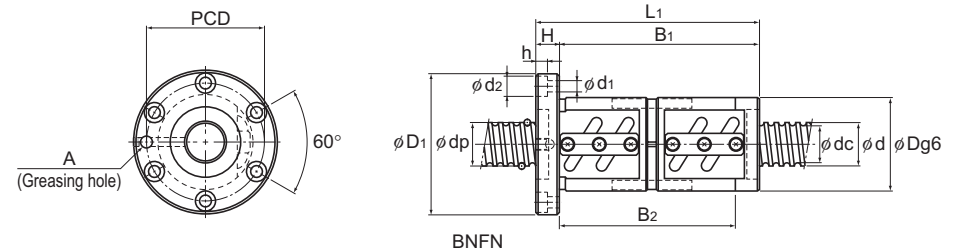
DKN



BIF



BLW



BNFN

Unit: mm

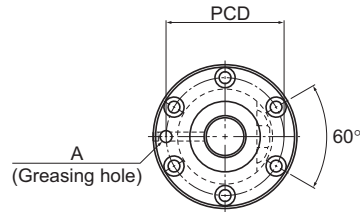
Screw shaft outer diameter d	Lead Ph	Model No.	Ball center-to-center diameter dp	Thread minor diameter dc	No. of loaded circuits Rows x turns	Basic load rating			Rigidity			Nut dimensions											Screw shaft inertial moment/mm ² kg·cm ² /mm	Nut mass kg	Shaft mass kg/m		
						Ca kN	C _{0a} kN	K N/μm	Outer diameter D	Flange diameter D ₁	D ₂	Overall length L ₁	H	B ₁	B ₂	B ₃	PCD	d ₁	d ₂	h	Tw	N ₁				Greasing hole A	
40	12	BIF 4012-5	42	34.1	1×2.5	33.9	79.2	770	84	126	—	119	18	101	—	—	104	11	17.5	11	—	—	M6	1.97×10 ⁻²	4.36	8.12	
		BIF 4012-10	42	34.1	2×2.5	61.6	158.8	1490	84	126	—	191	18	173	—	—	104	11	17.5	11	—	—	M6	1.97×10 ⁻²	6.47	8.12	
		DIK 4012-6	41.75	34.4	3×1	30.6	72.3	790	62	104	—	138	18	120	35	—	82	11	17.5	11	79	—	PT 1/8	1.97×10 ⁻²	2.44	8.5	
		DIK 4012-8	41.75	34.4	4×1	39.2	96.4	1030	62	104	—	163	18	145	45	—	82	11	17.5	11	79	—	PT 1/8	1.97×10 ⁻²	2.78	8.5	
		BNFN 4012-2.5	42	34.1	1×2.5	33.9	79.2	770	84	126	—	155	18	137	118	—	104	11	17.5	11	—	—	M6	1.97×10 ⁻²	5.42	8.12	
		BNFN 4012-3.5	42	34.1	1×3.5	45.4	110.7	1070	84	126	—	179	18	161	142	—	104	11	17.5	11	—	—	M6	1.97×10 ⁻²	6.12	8.12	
	16	20	BNFN 4012-5	42	34.1	2×2.5	61.6	158.8	1490	84	126	—	227	18	209	190	—	104	11	17.5	11	—	—	M6	1.97×10 ⁻²	7.52	8.12
			DIK 4016-4	41.75	34.4	2×1	21.5	68.4	540	62	104	—	120	18	102	30	—	82	11	17.5	11	79	—	PT 1/8	1.97×10 ⁻²	2.19	8.83
		40	BNFN 4016-5	42	34.1	2×2.5	61.4	158.8	1500	84	126	—	280	22	258	—	—	104	11	17.5	11	—	—	M6	1.97×10 ⁻²	9.27	8.55
			DKN 4020-3	41.75	34.7	3×1	29.4	69.3	750	62	104	—	223	18	205	25	—	82	11	17.5	11	79	—	PT 1/8	1.97×10 ⁻²	3.61	9.03
40	BLW 4040-3.6	41.75	35.2	2×1.8	38.7	99.2	1090	84	121	73	191	17	158	54.5	70.5	100	11	—	—	87	7	M6	1.97×10 ⁻²	6.16	9.01		

Note) The model numbers in dimmed type indicate semi-standard types. If desiring them, contact THK.
 These models can be attached with QZ Lubricator or the wiper ring.
 For dimensions of the ball screw nut with either accessory being attached, see B-778.
 Model BLW cannot be attached with seal.

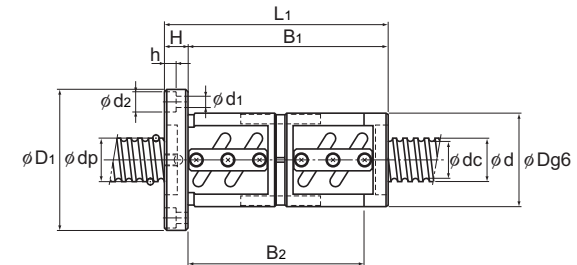
For model number coding, see B-718.

Preload Type of Precision Ball Screw

Screw shaft outer diameter	45
Lead	6 to 20



BNFN



BNFN

Unit: mm

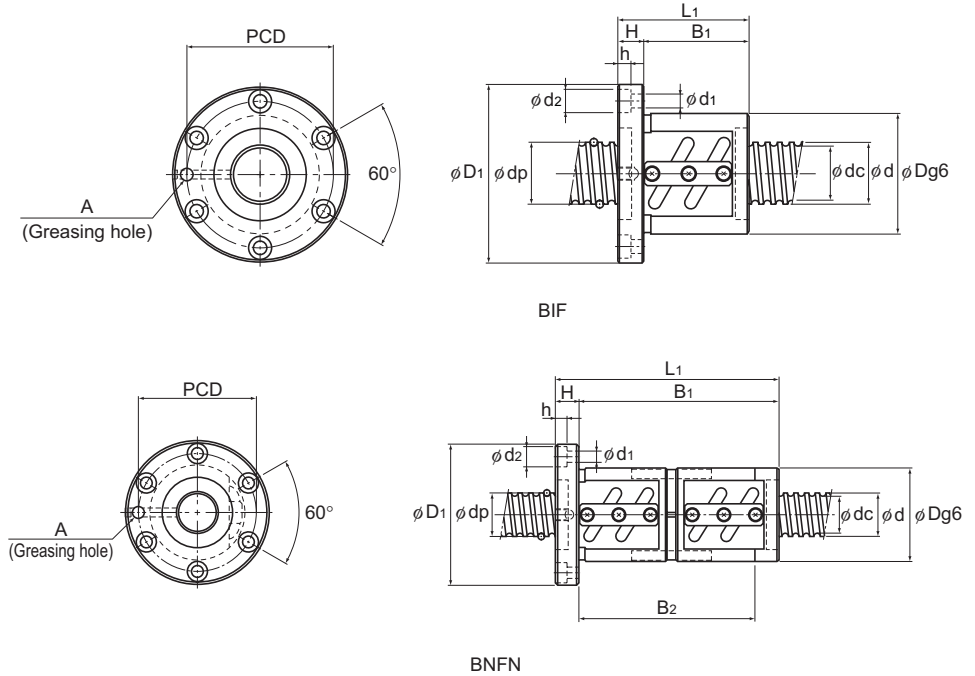
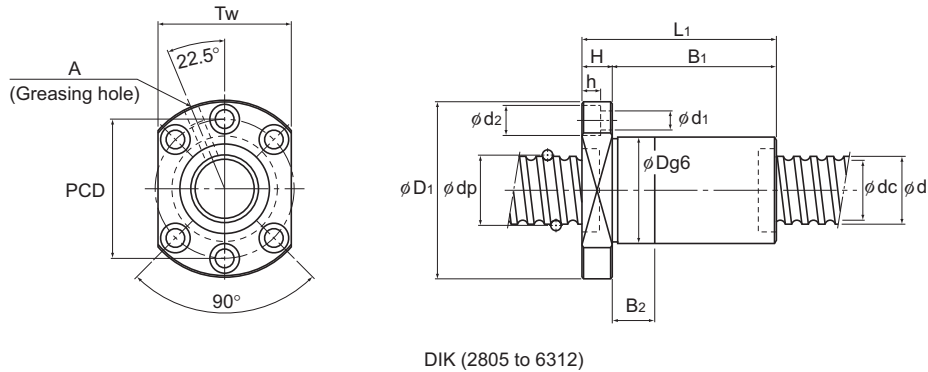
Screw shaft outer diameter d	Lead Ph	Model No.	Ball center-to-center diameter dp	Thread minor diameter dc	No. of loaded circuits Rows x turns	Basic load rating		Rigidity K N/μm	Nut dimensions							Screw shaft inertial moment/mm kg·cm ² /mm	Nut mass kg	Shaft mass kg/m		
						Ca kN	Ca kN		Outer diameter D	Flange diameter D ₁	Overall length L ₁	H	B ₁	B ₂	PCD				d ₁ × d ₂ × h	Greasing hole A
45	6	BNFN 4506A-2.5	46	41.4	1×2.5	16	49.6	770	80	114	89	15	74	—	96	9×14×8.5	PT 1/8	3.16×10 ⁻²	2.59	11.31
		BNFN 4506A-5	46	41.4	2×2.5	29	99	1500	80	114	125	15	110	—	96	9×14×8.5	PT 1/8	3.16×10 ⁻²	3.42	11.31
		BNFN 4506A-7.5	46	41.4	3×2.5	41.2	150	2210	80	114	161	15	146	—	96	9×14×8.5	PT 1/8	3.16×10 ⁻²	4.25	11.31
	8	BNFN 4508-2.5	46.25	40.6	1×2.5	20.7	59.5	790	85	127	116	18	98	—	105	11×17.5×11	PT 1/8	3.16×10 ⁻²	4.09	11.21
		BNFN 4508-5	46.25	40.6	2×2.5	37.4	118.6	1540	85	127	164	18	146	—	105	11×17.5×11	PT 1/8	3.16×10 ⁻²	5.41	11.21
		BNFN 4508-7.5	46.25	40.6	3×2.5	53.1	178.4	2270	85	127	212	18	194	—	105	11×17.5×11	PT 1/8	3.16×10 ⁻²	6.74	11.21
	10	BNFN 4510-2.5	46.75	39.5	1×2.5	30.7	79.3	830	88	132	141	18	123	104	110	11×17.5×11	PT 1/8	3.16×10 ⁻²	5.26	10.65
		BNFN 4510-3	46.75	39.5	2×1.5	35.9	95.2	990	88	132	164	18	146	127	110	11×17.5×11	PT 1/8	3.16×10 ⁻²	5.96	10.65
		BNFN 4510-5	46.75	39.5	2×2.5	55.6	158.8	1610	88	132	201	18	183	164	110	11×17.5×11	PT 1/8	3.16×10 ⁻²	7.09	10.65
		BNFN 4510-7.5	46.75	39.5	3×2.5	78.8	238.1	2370	88	132	261	18	243	224	110	11×17.5×11	PT 1/8	3.16×10 ⁻²	8.92	10.65
	12	BNFN 4512-5	47	39.2	2×2.5	65.2	178.4	1640	90	130	227	18	209	—	110	11×17.5×11	PT 1/8	3.16×10 ⁻²	8.24	10.54
	20	BNFN 4520-1.5	47.7	37.9	1×1.5	44.2	99	690	98	142	175	20	155	—	120	11×17.5×11	PT 1/8	3.16×10 ⁻²	8.31	10.37

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

For model number coding, see B-718.

Preload Type of Precision Ball Screw

Screw shaft outer diameter	50
Lead	5 to 10



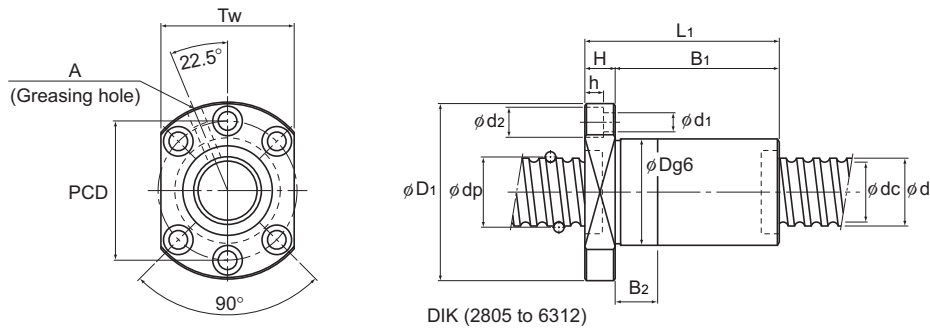
Screw shaft outer diameter d	Lead Ph	Model No.	Ball center-to-center diameter dp	Thread minor diameter dc	No. of loaded circuits Rows x turns	Basic load rating		Rigidity K N/μm	Nut dimensions											Screw shaft inertial moment/mm kg·cm ² /mm	Nut mass kg	Shaft mass kg/m
						Ca kN	Ca kN		Outer diameter D	Flange diameter D ₁	Overall length L ₁	H	B ₁	B ₂	PCD	d ₁ × d ₂ × h	Tw	Greasing hole A				
																			Unit: mm			
50	5	○ BNFN 5005-3	50.75	47.2	2×1.5	14.2	53	970	80	114	108	15	93	—	96	9×14×8.5	—	PT 1/8	4.82×10 ⁻²	2.71	14.42	
		○ BNFN 5005-4.5	50.75	47.2	3×1.5	20.2	79.5	1420	80	114	128	15	113	—	96	9×14×8.5	—	PT 1/8	4.82×10 ⁻²	3.12	14.42	
	8	○ BNFN 5008-2.5	51.25	45.5	1×2.5	21.6	66.2	860	87	129	109	18	91	—	107	11×17.5×11	—	PT 1/8	4.82×10 ⁻²	3.8	14.0	
		○ BNFN 5008-5	51.25	45.5	2×2.5	39.1	132.3	1680	87	129	157	18	139	—	107	11×17.5×11	—	PT 1/8	4.82×10 ⁻²	5.08	14.0	
		○ BNFN 5008-7.5	51.25	45.5	3×2.5	55.4	198.9	2470	87	129	205	18	187	—	107	11×17.5×11	—	PT 1/8	4.82×10 ⁻²	6.35	14.0	
		DIK 5010-6	51.75	44.4	3×1	33.9	90.7	940	72	123	114	18	96	30	101	11×17.5×11	92	PT 1/8	4.82×10 ⁻²	2.65	13.38	
	10	DIK 5010-8	51.75	44.4	4×1	43.4	120.5	1230	72	123	137	18	119	35	101	11×17.5×11	92	PT 1/8	4.82×10 ⁻²	3.03	13.38	
		DIK 5010-10	51.75	44.4	5×1	52.5	150.9	1530	72	123	160	18	142	45	101	11×17.5×11	92	PT 1/8	4.82×10 ⁻²	3.41	13.38	
		○ BIF 5010-5	51.75	44.4	1×2.5	32	88.2	900	93	135	103	18	85	—	113	11×17.5×11	—	PT 1/8	4.82×10 ⁻²	4.31	13.38	
		○ BIF 5010-10	51.75	44.4	2×2.5	58.2	176.4	1750	93	135	163	18	145	—	113	11×17.5×11	—	PT 1/8	4.82×10 ⁻²	6.26	13.38	
		○ BNFN 5010-2.5	51.75	44.4	1×2.5	32	88.2	900	93	135	133	18	115	96	113	11×17.5×11	—	PT 1/8	4.82×10 ⁻²	5.28	13.38	
		○ BNFN 5010-3	51.75	44.4	2×1.5	37.5	105.8	1080	93	135	170	18	152	133	113	11×17.5×11	—	PT 1/8	4.82×10 ⁻²	6.49	13.38	
		○ BNFN 5010-3.5	51.75	44.4	1×3.5	42.8	123.5	1240	93	135	153	18	135	116	113	11×17.5×11	—	PT 1/8	4.82×10 ⁻²	5.94	13.38	
		○ BNFN 5010-5	51.75	44.4	2×2.5	58.2	176.4	1750	93	135	193	18	175	156	113	11×17.5×11	—	PT 1/8	4.82×10 ⁻²	7.24	13.38	
		○ BNFN 5010-7.5	51.75	44.4	3×2.5	82.5	264.6	2580	93	135	253	18	235	216	113	11×17.5×11	—	PT 1/8	4.82×10 ⁻²	9.19	13.38	

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 B-778.

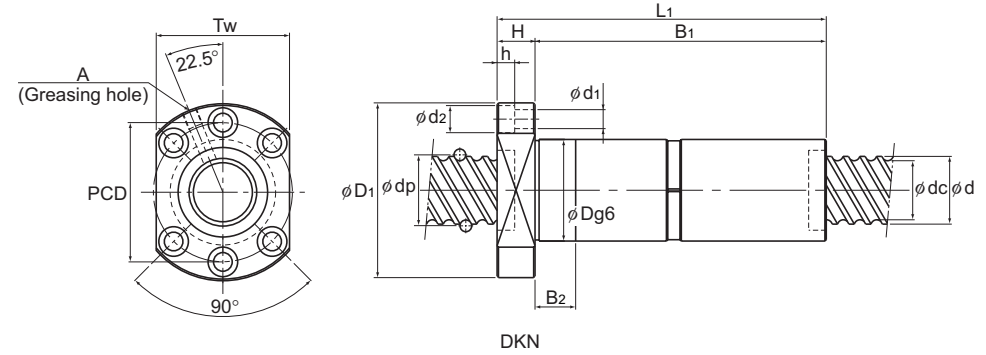
For model number coding, see B-718.

Preload Type of Precision Ball Screw

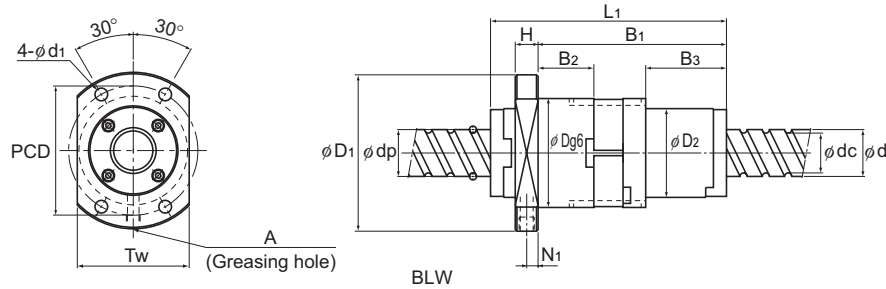
Screw shaft outer diameter	50
Lead	12 to 50



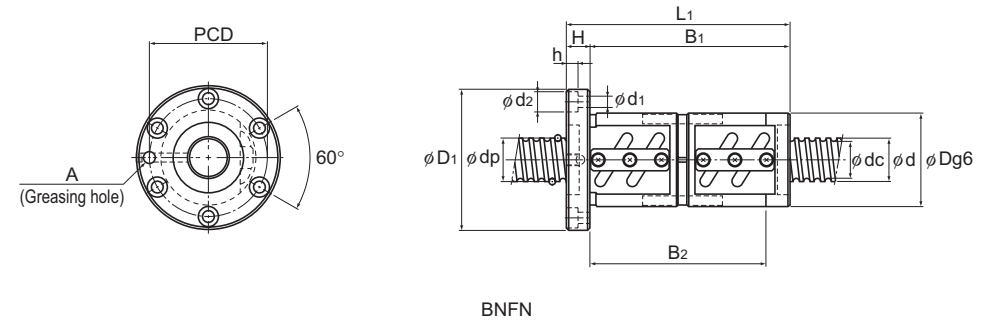
DIK (2805 to 6312)



DKN



BLW



BNFN

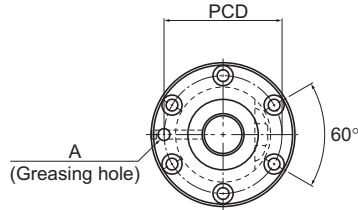
Screw shaft outer diameter d	Lead Ph	Model No.	Ball center-to-center diameter dp	Thread minor diameter dc	No. of loaded circuits Rows x turns	Basic load rating		Rigidity K N/μm	Nut dimensions											Screw shaft inertial moment/mm ² kg·cm ² /mm	Nut mass kg	Shaft mass kg/m				
						Ca kN	Ca kN		Outer diameter D	Flange diameter D1	D2	Overall length L1	H	B1	B2	B3	PCD	d1	d2				h	Tw	N1	Greasing hole A
50	12	DIK 5012-6	52.25	43.3	3×1	45.8	113	970	75	129	—	145	22	123	35	—	105	14	20	13	98	—	PT 1/8	4.82×10 ⁻²	3.83	12.74
		DIK 5012-8	52.25	43.3	4×1	58.6	150.6	1270	75	129	—	170	22	148	45	—	105	14	20	13	98	—	PT 1/8	4.82×10 ⁻²	4.31	12.74
		BNFN 5012-2.5	52.25	43.3	1×2.5	43.4	109.8	930	100	146	—	159	22	137	114	—	122	14	20	13	—	—	PT 1/8	4.82×10 ⁻²	7.75	12.74
		BNFN 5012-3.5	52.25	43.3	1×3.5	58	153.9	1280	100	146	—	183	22	161	138	—	122	14	20	13	—	—	PT 1/8	4.82×10 ⁻²	8.71	12.74
		BNFN 5012-5	52.25	43.3	2×2.5	78.8	220.5	1810	100	146	—	231	22	209	186	—	122	14	20	13	—	—	PT 1/8	4.82×10 ⁻²	10.63	12.74
	16	DIK 5016-4	52.25	43.3	2×1	32.3	75.5	660	75	129	—	129	22	107	30	—	105	14	20	13	98	—	PT 1/8	4.82×10 ⁻²	3.52	13.41
		DIK 5016-6	52.25	43.3	3×1	45.7	113.3	970	75	129	—	175	22	153	45	—	105	14	20	13	98	—	PT 1/8	4.82×10 ⁻²	4.41	13.41
		BNFN 5016-2.5	52.7	42.9	1×2.5	72.6	183.3	1230	105	152	—	196	25	171	—	—	128	14	20	13	—	—	PT 1/8	4.82×10 ⁻²	10.64	12.5
	20	BNFN 5016-5	52.7	42.9	2×2.5	132.3	366.5	2360	105	152	—	292	25	267	—	—	128	14	20	13	—	—	PT 1/8	4.82×10 ⁻²	15.03	12.5
		DKN 5020-3	52.25	43.6	3×1	44.2	108.8	930	75	129	—	243	28	215	30	—	105	14	20	13	98	—	PT 1/8	4.82×10 ⁻²	6.0	13.8
50	BNFN 5020-2.5	52.7	42.9	1×2.5	72.5	183.3	1230	105	152	—	241	28	213	—	—	128	14	20	13	—	—	PT 1/8	4.82×10 ⁻²	12.9	13.1	
	BLW 5050-3.6	52.2	44.1	2×1.8	57.8	155	1340	106	149	90	245	20	203.8	70.7	91.7	126	14	—	—	108	8	M6	4.82×10 ⁻²	9.06	14.08	

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 B-778.
Model BLW cannot be attached with seal.

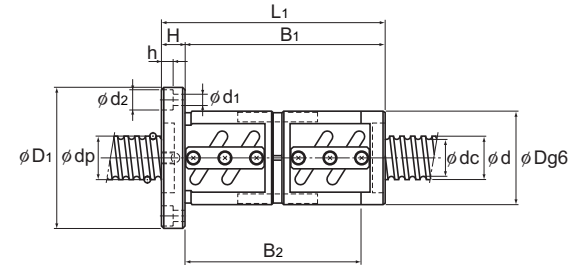
For model number coding, see B-718.

Preload Type of Precision Ball Screw

Screw shaft outer diameter	55
Lead	10 to 20



BNFN



BNFN

Unit: mm

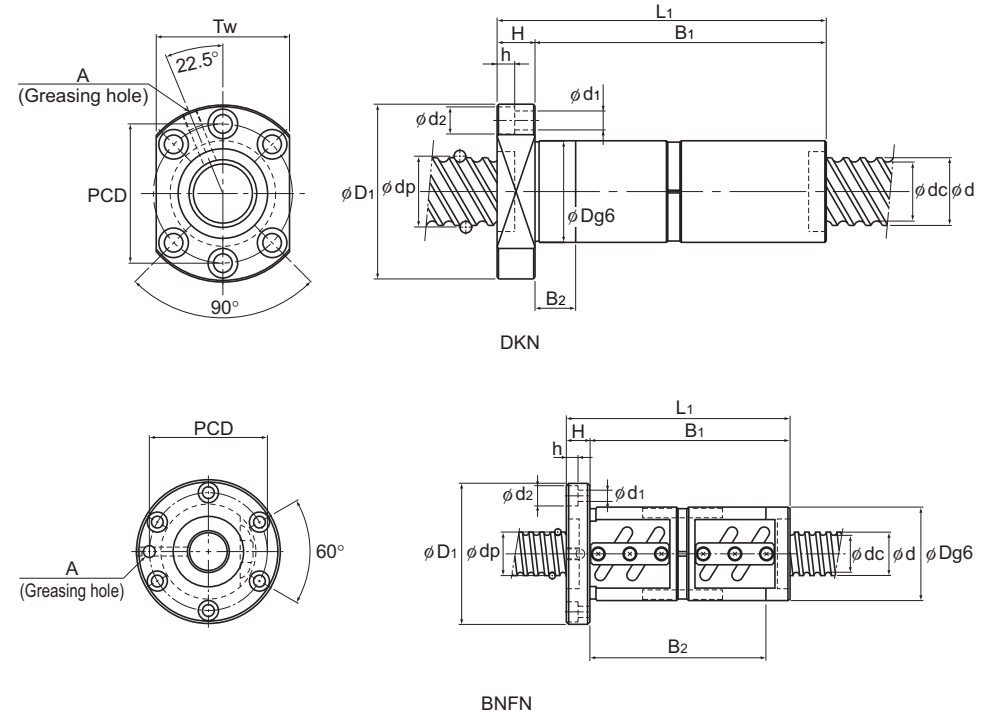
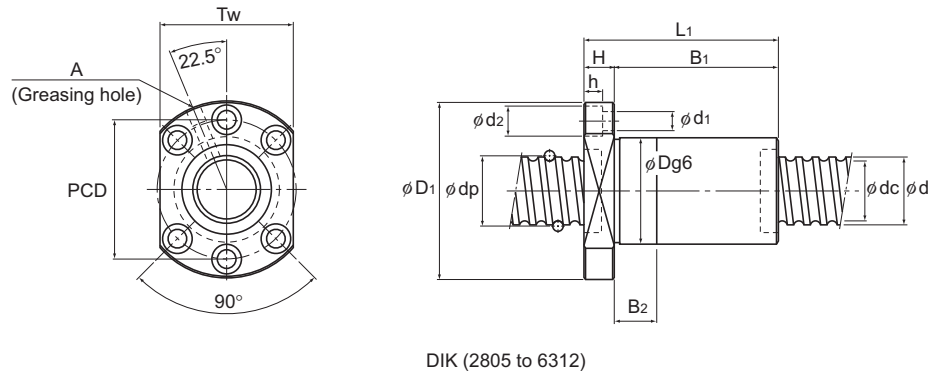
Screw shaft outer diameter d	Lead Ph	Model No.	Ball center-to-center diameter dp	Thread minor diameter dc	No. of loaded circuits Rows x turns	Basic load rating		Rigidity K N/μm	Nut dimensions							Screw shaft inertial moment/mm kg·cm ² /mm	Nut mass kg	Shaft mass kg/m	
						Ca kN	Ca kN		Outer diameter D	Flange diameter D ₁	Overall length L ₁	H	B ₁	PCD	d ₁ × d ₂ × h				Greasing hole A
55	10	BNFN 5510-2.5	56.75	49.5	1×2.5	33.4	97	970	102	144	141	18	123	122	11×17.5×11	PT 1/8	7.05×10 ⁻²	6.54	16.43
		BNFN 5510-5	56.75	49.5	2×2.5	60.7	194	1890	102	144	201	18	183	122	11×17.5×11	PT 1/8	7.05×10 ⁻²	8.88	16.43
		BNFN 5510-7.5	56.75	49.5	3×2.5	85.9	291.1	2770	102	144	261	18	243	122	11×17.5×11	PT 1/8	7.05×10 ⁻²	11.23	16.43
	12	BNFN 5512-2.5	57	49.2	1×2.5	39.3	108.8	990	105	147	165	18	147	125	11×17.5×11	PT 1/8	7.05×10 ⁻²	8.07	16.29
		BNFN 5512-3	57	49.2	2×1.5	46	131.3	1180	105	147	191	18	173	125	11×17.5×11	PT 1/8	7.05×10 ⁻²	9.17	16.29
		BNFN 5512-3.5	57	49.2	1×3.5	52.4	152.9	1360	105	147	189	18	171	125	11×17.5×11	PT 1/8	7.05×10 ⁻²	9.09	16.29
		BNFN 5512-5	57	49.2	2×2.5	71.3	218.5	1920	105	147	237	18	219	125	11×17.5×11	PT 1/8	7.05×10 ⁻²	11.13	16.29
		BNFN 5512-7.5	57	49.2	3×2.5	100.9	327.3	2830	105	147	309	18	291	125	11×17.5×11	PT 1/8	7.05×10 ⁻²	14.19	16.29
	16	BNFN 5516-2.5	57.7	47.9	1×2.5	76.1	201.9	1310	110	158	196	25	171	133	14×20×13	PT 1/8	7.05×10 ⁻²	11.28	15.46
		BNFN 5516-5	57.7	47.9	2×2.5	138.2	402.8	2550	110	158	292	25	267	133	14×20×13	PT 1/8	7.05×10 ⁻²	15.94	15.46
	20	BNFN 5520-2.5	57.7	47.9	1×2.5	76	201.9	1320	112	158	227	28	199	134	14×20×13	PT 1/8	7.05×10 ⁻²	13.49	16.1
		BNFN 5520-5	57.7	47.9	2×2.5	138.2	403.8	2550	112	158	347	28	319	134	14×20×13	PT 1/8	7.05×10 ⁻²	19.61	16.1

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

For model number coding, see B-718.

Preload Type of Precision Ball Screw

Screw shaft outer diameter	63
Lead	10 to 20



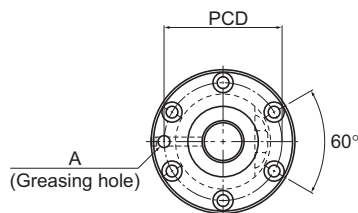
Screw shaft outer diameter d	Lead Ph	Model No.	Ball center-to-center diameter dp	Thread minor diameter dc	No. of loaded circuits Rows x turns	Basic load rating		Rigidity K	Nut dimensions										Screw shaft inertial moment/mm kg·cm ² /mm	Nut mass kg	Shaft mass kg/m
						Ca	Ca		Outer diameter	Flange diameter	Overall length	H	B ₁	B ₂	PCD	d ₁ × d ₂ × h	Tw	Greasing hole			
						kN	kN		D	D ₁	L ₁	H	B ₁	B ₂	PCD	d ₁ × d ₂ × h	Tw	A			
63	10	DIK 6310-8	64.75	57.7	4 × 1	49.5	160.7	1550	85	146	141	22	119	35	122	14 × 20 × 13	110	PT 1/8	1.21 × 10 ⁻¹	4.16	21.93
		BNFN 6310-2.5	64.75	57.7	1 × 2.5	35.4	111.7	1090	108	154	137	22	115	—	130	14 × 20 × 13	—	PT 1/8	1.21 × 10 ⁻¹	6.98	21.93
		BNFN 6310-5	64.75	57.7	2 × 2.5	64.2	222.5	2100	108	154	197	22	175	—	130	14 × 20 × 13	—	PT 1/8	1.21 × 10 ⁻¹	9.4	21.93
		BNFN 6310-7.5	64.75	57.7	3 × 2.5	90.9	334.2	3090	108	154	257	22	235	—	130	14 × 20 × 13	—	PT 1/8	1.21 × 10 ⁻¹	11.81	21.93
	12	DIK 6312-6	65.25	56.3	3 × 1	51.9	147.4	1200	90	146	146	22	124	35	122	14 × 20 × 13	110	PT 1/8	1.21 × 10 ⁻¹	4.93	21.14
		DIK 6312-8	65.25	56.3	4 × 1	66.4	196.6	1570	90	146	171	22	149	45	122	14 × 20 × 13	110	PT 1/8	1.21 × 10 ⁻¹	5.56	21.14
		BNFN 6312A-2.5	65.25	56.3	1 × 2.5	48.1	139.2	1120	115	161	159	22	137	—	137	14 × 20 × 13	—	PT 1/8	1.21 × 10 ⁻¹	9.32	21.14
		BNFN 6312A-5	65.25	56.3	2 × 2.5	87.4	278.3	2160	115	161	231	22	209	—	137	14 × 20 × 13	—	PT 1/8	1.21 × 10 ⁻¹	12.84	21.14
	16	BNFN 6316-2.5	65.7	55.9	1 × 2.5	81.1	231.3	1470	122	184	208	24	184	—	152	18 × 26 × 17.5	—	PT 1/8	1.21 × 10 ⁻¹	14.61	20.85
		BNFN 6316-5	65.7	55.9	2 × 2.5	147	462.6	2840	122	184	304	24	280	—	152	18 × 26 × 17.5	—	PT 1/8	1.21 × 10 ⁻¹	20.19	20.85
	20	BNFN 6320-2.5	65.7	55.9	1 × 2.5	81	231.3	1470	122	180	227	28	199	—	150	18 × 26 × 17.5	—	PT 1/8	1.21 × 10 ⁻¹	15.91	20.85
		BNFN 6320-5	65.7	55.9	2 × 2.5	147	463.5	2640	122	180	347	28	319	—	150	18 × 26 × 17.5	—	PT 1/8	1.21 × 10 ⁻¹	22.88	20.85
DKN 6320-3		65.7	55.9	3 × 1	83.5	229.3	1470	95	159	243	28	215	30	129	18 × 26 × 17.5	121	PT 1/8	1.21 × 10 ⁻¹	9.5	20.85	

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

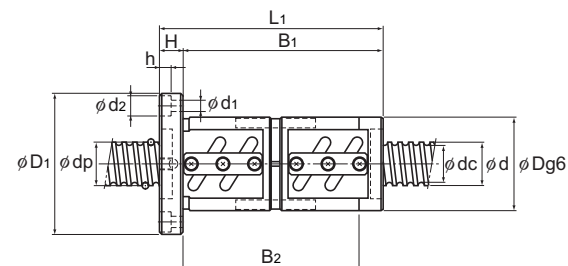
For model number coding, see B-718.

Preload Type of Precision Ball Screw

Screw shaft outer diameter	70 to 100
Lead	10 to 20



BNFN



BNFN

Unit: mm

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	Nut dimensions							Screw shaft inertial moment/mm kg·cm ² /mm	Nut mass kg	Shaft mass kg/m	
						Ca kN	Ca kN		Outer diameter D	Flange diameter D ₁	Overall length L ₁	H	B ₁	PCD	d ₁ × d ₂ × h				Greasing hole A
70	10	BNFN 7010-2.5	71.75	64.5	1×2.5	36.8	123.5	1180	125	167	141	18	123	145	11×17.5×11	PT 1/8	1.85×10 ⁻¹	9.19	27.4
		BNFN 7010-5	71.75	64.5	2×2.5	66.9	247	2280	125	167	201	18	183	145	11×17.5×11	PT 1/8	1.85×10 ⁻¹	12.57	27.4
		BNFN 7010-7.5	71.75	64.5	3×2.5	94.9	371.4	3350	125	167	261	18	243	145	11×17.5×11	PT 1/8	1.85×10 ⁻¹	15.96	27.4
	12	BNFN 7012-2.5	72	64.2	1×2.5	43.5	139.2	1200	128	170	165	18	147	148	11×17.5×11	PT 1/8	1.85×10 ⁻¹	11.26	27.24
		BNFN 7012-5	72	64.2	2×2.5	78.9	278.3	2320	128	170	237	18	219	148	11×17.5×11	PT 1/8	1.85×10 ⁻¹	15.63	27.24
		BNFN 7012-7.5	72	64.2	3×2.5	111.7	417.5	3420	128	170	309	18	291	148	11×17.5×11	PT 1/8	1.85×10 ⁻¹	20.0	27.24
20	BNFN 7020-5	72.7	62.9	2×2.5	153.9	514.5	3090	130	186	325	28	297	158	18×26×17.5	PT 1/8	1.85×10 ⁻¹	23.4	27.0	
80	10	BNFN 8010-2.5	81.75	75.2	1×2.5	38.9	141.1	1300	130	176	137	22	115	152	14×20×13	PT 1/8	3.16×10 ⁻¹	9.15	36.26
		BNFN 8010-5	81.75	75.2	2×2.5	70.6	283.2	2530	130	176	197	22	175	152	14×20×13	PT 1/8	3.16×10 ⁻¹	12.41	36.26
		BNFN 8010-7.5	81.75	75.2	3×2.5	100	424.3	3720	130	176	257	22	235	152	14×20×13	PT 1/8	3.16×10 ⁻¹	15.67	36.26
	12	BNFN 8012-5	82.3	74.1	2×2.5	96.5	353.8	2620	135	181	231	22	209	157	14×20×13	PT 1/8	3.16×10 ⁻¹	16.02	35.26
		BNFN 8020A-2.5	82.7	72.9	1×2.5	90.1	294	1770	143	204	227	28	199	172	18×26×17.5	PT 1/8	3.16×10 ⁻¹	20.08	35.81
		BNFN 8020A-5	82.7	72.9	2×2.5	163.7	589	3430	143	204	347	28	319	172	18×26×17.5	PT 1/8	3.16×10 ⁻¹	28.97	35.81
100	20	BNFN 10020A-2.5	102.7	92.9	1×2.5	99	368.5	2110	170	243	231	32	199	205	22×32×21.5	PT 1/8	7.71×10 ⁻¹	28.15	57.13
		BNFN 10020A-5	102.7	92.9	2×2.5	179.3	737	4080	170	243	351	32	319	205	22×32×21.5	PT 1/8	7.71×10 ⁻¹	39.99	57.13
		BNFN 10020A-7.5	102.7	92.9	3×2.5	253.8	1105.4	6010	170	243	471	32	439	205	22×32×21.5	PT 1/8	7.71×10 ⁻¹	51.84	57.13

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

For model number coding, see B-718.