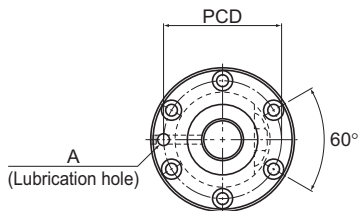


BNFN With Preload

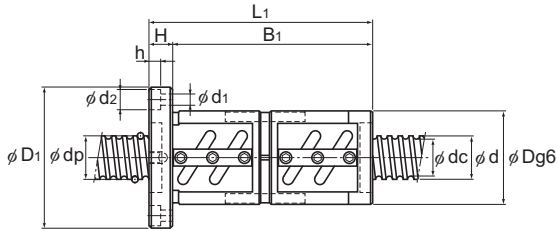
DN value	70000
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Model No.	Screw shaft outer diameter d	Lead Ph	Ball center-to-center diameter dp	Thread minor diameter dc	No. of loaded circuits Rows × turns	Basic load rating		Rigidity K N/μm
						Ca kN	C _{0a} kN	
BNFN 5510-2.5	55	10	56.75	49.5	1×2.5	33.4	97	970
BNFN 5510-5	55	10	56.75	49.5	2×2.5	60.7	194	1890
BNFN 5510-7.5	55	10	56.75	49.5	3×2.5	85.9	291.1	2770
BNFN 5512-2.5	55	12	57	49.2	1×2.5	39.3	108.8	990
BNFN 5512-3	55	12	57	49.2	2×1.5	46	131.3	1180
BNFN 5512-3.5	55	12	57	49.2	1×3.5	52.4	152.9	1360
BNFN 5512-5	55	12	57	49.2	2×2.5	71.3	218.5	1920
BNFN 5512-7.5	55	12	57	49.2	3×2.5	100.9	327.3	2830
BNFN 5516-2.5	55	16	57.7	47.9	1×2.5	76.1	201.9	1310
BNFN 5516-5	55	16	57.7	47.9	2×2.5	138.2	402.8	2550
BNFN 5520-2.5	55	20	57.7	47.9	1×2.5	76	201.9	1320
BNFN 5520-5	55	20	57.7	47.9	2×2.5	138.2	403.8	2550
BNFN 6310-2.5	63	10	64.75	57.7	1×2.5	35.4	111.7	1090
BNFN 6310-5	63	10	64.75	57.7	2×2.5	64.2	222.5	2100
BNFN 6310-7.5	63	10	64.75	57.7	3×2.5	90.9	334.2	3090
BNFN 6312A-2.5	63	12	65.25	56.3	1×2.5	48.1	139.2	1120
BNFN 6312A-5	63	12	65.25	56.3	2×2.5	87.4	278.3	2160
BNFN 6316-2.5	63	16	65.7	55.9	1×2.5	81.1	231.3	1470
BNFN 6316-5	63	16	65.7	55.9	2×2.5	147	462.6	2840
BNFN 6320-2.5	63	20	65.7	55.9	1×2.5	81	231.3	1470
BNFN 6320-5	63	20	65.7	55.9	2×2.5	147	463.5	2640

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

Positioning Ball Screw



Unit: mm

	Nut dimensions							Screw shaft inertial moment/mm ² kg·m ² /mm	Nut mass kg	Shaft mass kg/m	Permissible rotational speed min ⁻¹	
	Outer diameter D	Flange diameter D ₁	Overall length L ₁	H	B ₁	PCD	d ₁ ×d ₂ ×h					Lubrication hole A
	102	144	141	18	123	122	11×17.5×11	Rc1/8 (PT1/8)	7.05×10 ⁻⁶	6.54	16.43	1230
	102	144	201	18	183	122	11×17.5×11		7.05×10 ⁻⁶	8.88	16.43	1230
	102	144	261	18	243	122	11×17.5×11		7.05×10 ⁻⁶	11.23	16.43	1230
	105	147	165	18	147	125	11×17.5×11		7.05×10 ⁻⁶	8.07	16.29	1220
	105	147	191	18	173	125	11×17.5×11		7.05×10 ⁻⁶	9.17	16.29	1220
	105	147	189	18	171	125	11×17.5×11		7.05×10 ⁻⁶	9.09	16.29	1220
	105	147	237	18	219	125	11×17.5×11		7.05×10 ⁻⁶	11.13	16.29	1220
	105	147	309	18	291	125	11×17.5×11		7.05×10 ⁻⁶	14.19	16.29	1220
	110	158	196	25	171	133	14×20×13		7.05×10 ⁻⁶	11.28	15.46	1210
	110	158	292	25	267	133	14×20×13		7.05×10 ⁻⁶	15.94	15.46	1210
	112	158	227	28	199	134	14×20×13		7.05×10 ⁻⁶	13.49	16.1	1210
	112	158	347	28	319	134	14×20×13		7.05×10 ⁻⁶	19.61	16.1	1210
	108	154	137	22	115	130	14×20×13		1.21×10 ⁻⁵	6.98	21.93	1080
	108	154	197	22	175	130	14×20×13		1.21×10 ⁻⁵	9.4	21.93	1080
	108	154	257	22	235	130	14×20×13		1.21×10 ⁻⁵	11.81	21.93	1080
	115	161	159	22	137	137	14×20×13		1.21×10 ⁻⁵	9.32	21.14	1070
	115	161	231	22	209	137	14×20×13		1.21×10 ⁻⁵	12.84	21.14	1070
	122	184	208	24	184	152	18×26×17.5		1.21×10 ⁻⁵	14.61	20.85	1060
	122	184	304	24	280	152	18×26×17.5		1.21×10 ⁻⁵	20.19	20.85	1060
	122	180	227	28	199	150	18×26×17.5		1.21×10 ⁻⁵	15.91	20.85	1060
	122	180	347	28	319	150	18×26×17.5	1.21×10 ⁻⁵	22.88	20.85	1060	

Note) The overall length of the nut will increase when equipping the QZ lubricating device. See **A15-344** for further details.