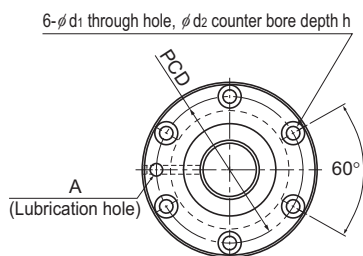


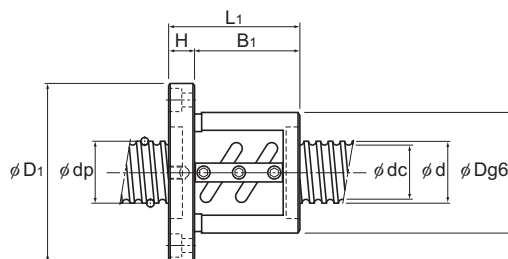
BNF No Preload

DN value	70,000
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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 X turns	Basic load rating		Rigidity K N/ μ m
						Ca kN	C _{0a} kN	
BNF 5510-2.5	55	10	56.75	49.5	1×2.5	33.4	97	490
BNF 5510-5	55	10	56.75	49.5	2×2.5	60.7	194	950
BNF 5510-7.5	55	10	56.75	49.5	3×2.5	85.9	291.1	1,390
BNF 5512-2.5	55	12	57	49.2	1×2.5	39.3	108.8	500
BNF 5512-3	55	12	57	49.2	2×1.5	46	131.3	590
BNF 5512-3.5	55	12	57	49.2	1×3.5	52.4	152.9	680
BNF 5512-5	55	12	57	49.2	2×2.5	71.3	218.5	960
BNF 5512-7.5	55	12	57	49.2	3×2.5	100.9	327.3	1,420
BNF 5516-2.5	55	16	57.7	47.9	1×2.5	76.1	201.9	650
BNF 5516-5	55	16	57.7	47.9	2×2.5	138.2	402.8	1,280
BNF 5520-2.5	55	20	57.7	47.9	1×2.5	76	201.9	660
BNF 5520-5	55	20	57.7	47.9	2×2.5	138.2	403.8	1,280
BNF 6310-2.5	63	10	64.75	57.7	1×2.5	35.4	111.7	550
BNF 6310-5	63	10	64.75	57.7	2×2.5	64.2	222.5	1,050
BNF 6310-7.5	63	10	64.75	57.7	3×2.5	90.9	334.2	1,550
BNF 6312A-2.5	63	12	65.25	56.3	1×2.5	48.1	139.2	560
BNF 6312A-5	63	12	65.25	56.3	2×2.5	87.4	278.3	1,090
BNF 6316-5	63	16	65.7	55.9	2×2.5	147	462.6	1,420
BNF 6320-2.5	63	20	65.7	55.9	1×2.5	81	231.3	740
BNF 6320-5	63	20	65.7	55.9	2×2.5	147	463.5	1,420

Positioning Ball Screw



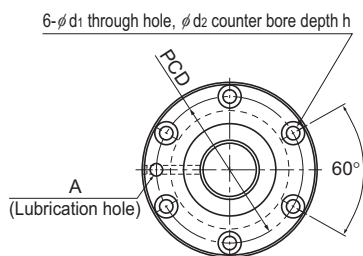
Unit: mm

	Nut dimensions							Lubrication hole A	Screw shaft inertial moment/mm 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					
	102	144	81	18	63	122	11×17.5×11	Rc1/8 (PT1/8)	7.05×10 ⁻⁶	4.19	16.43	1,230
	102	144	111	18	93	122	11×17.5×11		7.05×10 ⁻⁶	5.36	16.43	1,230
	102	144	141	18	123	122	11×17.5×11		7.05×10 ⁻⁶	6.54	16.43	1,230
	105	147	93	18	75	125	11×17.5×11		7.05×10 ⁻⁶	5.01	16.29	1,220
	105	147	107	18	89	125	11×17.5×11		7.05×10 ⁻⁶	5.6	16.29	1,220
	105	147	105	18	87	125	11×17.5×11		7.05×10 ⁻⁶	5.52	16.29	1,220
	105	147	129	18	111	125	11×17.5×11		7.05×10 ⁻⁶	6.54	16.29	1,220
	105	147	165	18	147	125	11×17.5×11		7.05×10 ⁻⁶	8.07	16.29	1,220
	110	158	116	25	91	133	14×20×13		7.05×10 ⁻⁶	7.4	15.46	1,210
	110	158	164	25	139	133	14×20×13		7.05×10 ⁻⁶	9.73	15.46	1,210
	112	158	127	28	99	134	14×20×13		7.05×10 ⁻⁶	8.4	16.1	1,210
	112	158	187	28	159	134	14×20×13		7.05×10 ⁻⁶	11.45	16.1	1,210
	108	154	77	22	55	130	14×20×13		1.21×10 ⁻⁵	4.57	21.93	1,080
	108	154	107	22	85	130	14×20×13		1.21×10 ⁻⁵	5.77	21.93	1,080
	108	154	137	22	115	130	14×20×13		1.21×10 ⁻⁵	6.98	21.93	1,080
	115	161	87	22	65	137	14×20×13		1.21×10 ⁻⁵	5.8	21.14	1,070
	115	161	123	22	101	137	14×20×13		1.21×10 ⁻⁵	7.56	21.14	1,070
	122	184	160	24	136	152	18×26×17.5		1.21×10 ⁻⁵	11.82	20.85	1,060
	122	180	127	28	99	150	18×26×17.5		1.21×10 ⁻⁵	10.1	21.57	1,060
	122	180	187	28	159	150	18×26×17.5		1.21×10 ⁻⁵	13.58	21.57	1,060

Note: The overall length of the nut will increase when equipping the QZ Lubricator. See **A15-366** for further details.

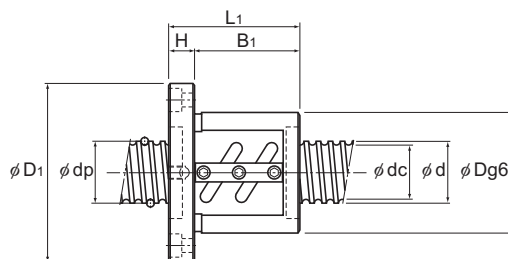
BNF No Preload

DN value	70,000
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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 X turns	Basic load rating		Rigidity K N/μm
						Ca kN	C0a kN	
BNF 7010-2.5	70	10	71.75	64.5	1×2.5	36.8	123.5	590
BNF 7010-5	70	10	71.75	64.5	2×2.5	66.9	247	1,140
BNF 7010-7.5	70	10	71.75	64.5	3×2.5	94.9	371.4	1,680
BNF 7012-2.5	70	12	72	64.2	1×2.5	43.5	139.2	600
BNF 7012-5	70	12	72	64.2	2×2.5	78.9	278.3	1,160
BNF 7012-7.5	70	12	72	64.2	3×2.5	111.7	417.5	1,710
BNF 7020-5	70	20	72.7	62.9	2×2.5	153.9	514.5	1,550
BNF 8010-2.5	80	10	81.75	75.2	1×2.5	38.9	141.1	650
BNF 8010-5	80	10	81.75	75.2	2×2.5	70.6	283.2	1,270
BNF 8010-7.5	80	10	81.75	75.2	3×2.5	100	424.3	1,860
BNF 8020A-2.5	80	20	82.7	72.9	1×2.5	90.1	294	890
BNF 8020A-5	80	20	82.7	72.9	2×2.5	163.7	589	1,720
BNF 8020A-7.5	80	20	82.7	72.9	3×2.5	231.6	883.2	2,520
BNF 10020A-2.5	100	20	102.7	92.9	1×2.5	99	368.5	2,110
BNF 10020A-5	100	20	102.7	92.9	2×2.5	179.3	737	4,080
BNF 10020A-7.5	100	20	102.7	92.9	3×2.5	253.8	1105.4	6,010

Positioning Ball Screw



Unit: mm

	Nut dimensions								Screw shaft inertial moment/mm 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				
	125	167	81	18	63	145	11×17.5×11	Rc1/8 (PT1/8)	1.85×10 ⁻⁵	5.8	27.4	970
	125	167	111	18	93	145	11×17.5×11		1.85×10 ⁻⁵	7.49	27.4	970
	125	167	141	18	123	145	11×17.5×11		1.85×10 ⁻⁵	9.19	27.4	970
	128	170	93	18	75	148	11×17.5×11		1.85×10 ⁻⁵	6.89	27.24	970
	128	170	129	18	111	148	11×17.5×11		1.85×10 ⁻⁵	9.08	27.24	970
	128	170	165	18	147	148	11×17.5×11		1.85×10 ⁻⁵	11.26	27.24	970
	130	186	185	28	157	158	18×26×17.5		1.85×10 ⁻⁵	14.5	27	960
	130	176	77	22	55	152	14×20×13		3.16×10 ⁻⁵	5.9	36.26	850
	130	176	107	22	85	152	14×20×13		3.16×10 ⁻⁵	7.53	36.26	850
	130	176	137	22	115	152	14×20×13		3.16×10 ⁻⁵	9.15	36.26	850
	143	204	127	28	99	172	18×26×17.5		3.16×10 ⁻⁵	12.68	35.81	840
	143	204	187	28	159	172	18×26×17.5		3.16×10 ⁻⁵	17.12	35.81	840
	143	204	247	28	219	172	18×26×17.5		3.16×10 ⁻⁵	21.56	35.81	840
	170	243	131	32	99	205	22×32×21.5		7.71×10 ⁻⁵	18.28	57.13	680
	170	243	191	32	159	205	22×32×21.5		7.71×10 ⁻⁵	24.2	57.13	680
	170	243	251	32	219	205	22×32×21.5		7.71×10 ⁻⁵	30.12	57.13	680

Note: The overall length of the nut will increase when equipping the QZ Lubricator. See **A15-366** for further details.