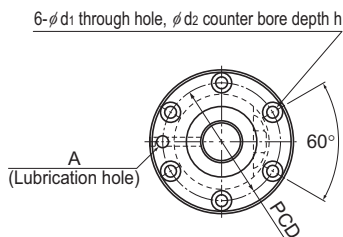


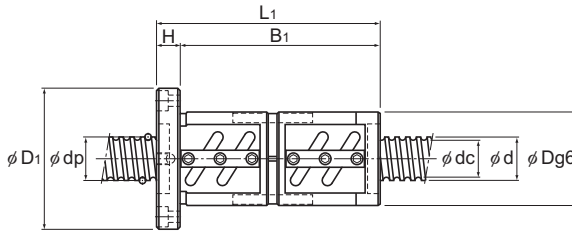
# BNFN With Preload

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/ $\mu$ m
						Ca kN	Ca kN	
BNFN 7010-2.5	70	10	71.75	64.5	1 X 2.5	36.8	123.5	1,180
BNFN 7010-5	70	10	71.75	64.5	2 X 2.5	66.9	247	2,280
BNFN 7010-7.5	70	10	71.75	64.5	3 X 2.5	94.9	371.4	3,350
BNFN 7012-2.5	70	12	72	64.2	1 X 2.5	43.5	139.2	1,200
BNFN 7012-5	70	12	72	64.2	2 X 2.5	78.9	278.3	2,320
BNFN 7012-7.5	70	12	72	64.2	3 X 2.5	111.7	417.5	3,420
BNFN 7020-5	70	20	72.7	62.9	2 X 2.5	153.9	514.5	3,090
BNFN 8010-2.5	80	10	81.75	75.2	1 X 2.5	38.9	141.1	1,300
BNFN 8010-5	80	10	81.75	75.2	2 X 2.5	70.6	283.2	2,530
BNFN 8010-7.5	80	10	81.75	75.2	3 X 2.5	100	424.3	3,720
BNFN 8012-5	80	12	82.3	74.1	2 X 2.5	96.5	353.8	2,620
BNFN 8020A-2.5	80	20	82.7	72.9	1 X 2.5	90.1	294	1,770
BNFN 8020A-5	80	20	82.7	72.9	2 X 2.5	163.7	589	3,430
BNFN 10020A-2.5	100	20	102.7	92.9	1 X 2.5	99	368.5	2,110
BNFN 10020A-5	100	20	102.7	92.9	2 X 2.5	179.3	737	4,080
BNFN 10020A-7.5	100	20	102.7	92.9	3 X 2.5	253.8	1105.4	6,010

## Positioning Ball Screw



Unit: mm

	Nut dimensions							Screw shaft inertial moment/mm <sup>2</sup> kg·m <sup>2</sup> /mm	Nut mass kg	Shaft mass kg/m	Permissible rotational speed min <sup>-1</sup>	
	Outer diameter D	Flange diameter D <sub>1</sub>	Overall length L <sub>1</sub>	H	B <sub>1</sub>	PCD	d <sub>1</sub> ×d <sub>2</sub> ×h					Lubrication hole A
	125	167	141	18	123	145	11×17.5×11	Rc1/8 (PT1/8)	1.85×10 <sup>-5</sup>	9.19	27.4	970
	125	167	201	18	183	145	11×17.5×11		1.85×10 <sup>-5</sup>	12.57	27.4	970
	125	167	261	18	243	145	11×17.5×11		1.85×10 <sup>-5</sup>	15.96	27.4	970
	128	170	165	18	147	148	11×17.5×11		1.85×10 <sup>-5</sup>	11.26	27.24	970
	128	170	237	18	219	148	11×17.5×11		1.85×10 <sup>-5</sup>	15.63	27.24	970
	128	170	309	18	291	148	11×17.5×11		1.85×10 <sup>-5</sup>	20	27.24	970
	130	186	325	28	297	158	18×26×17.5		1.85×10 <sup>-5</sup>	23.4	27	960
	130	176	137	22	115	152	14×20×13		3.16×10 <sup>-5</sup>	9.15	36.26	850
	130	176	197	22	175	152	14×20×13		3.16×10 <sup>-5</sup>	12.41	36.26	850
	130	176	257	22	235	152	14×20×13		3.16×10 <sup>-5</sup>	15.67	36.26	850
	135	181	231	22	209	157	14×20×13		3.16×10 <sup>-5</sup>	16.02	35.26	850
	143	204	227	28	199	172	18×26×17.5		3.16×10 <sup>-5</sup>	20.08	35.81	840
	143	204	347	28	319	172	18×26×17.5		3.16×10 <sup>-5</sup>	28.97	35.81	840
	170	243	231	32	199	205	22×32×21.5		7.71×10 <sup>-5</sup>	28.15	57.13	680
	170	243	351	32	319	205	22×32×21.5		7.71×10 <sup>-5</sup>	39.99	57.13	680
	170	243	471	32	439	205	22×32×21.5		7.71×10 <sup>-5</sup>	51.84	57.13	680

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