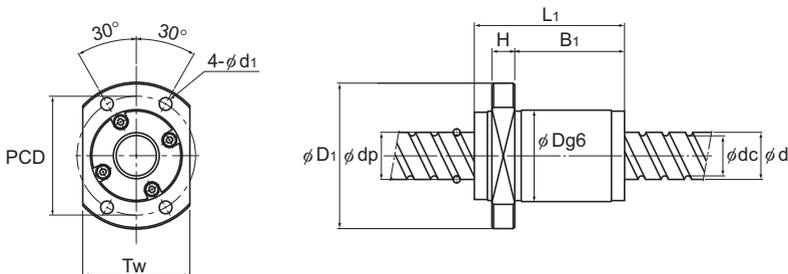


# BLK (Precision Ball Screw) No Preload

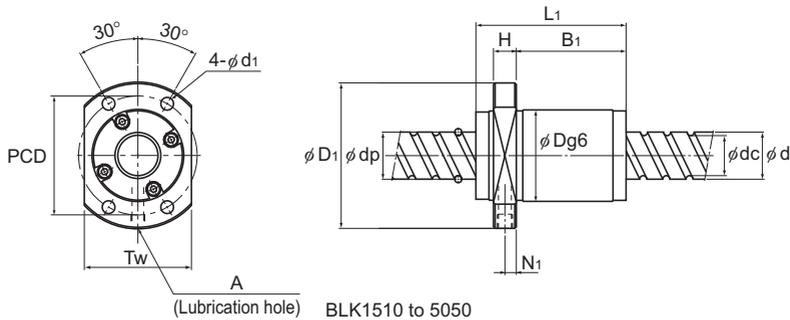
DN value	7000
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BLK0808

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	C <sub>0a</sub> kN	
BLK 0808-3.2	8	8	8.4	6.7	2×1.6	2.2	3.8	95
BLK 1510-5.6	15	10	15.75	12.5	2×2.8	14.3	27.8	340
BLK 1616-2.8	16	16	16.65	13.7	1×2.8	5.2	9.9	180
BLK 1616-3.6	16	16	16.65	13.7	2×1.8	7.1	14.3	220
BLK 2020-2.8	20	20	20.75	17.5	1×2.8	8.1	17.2	230
BLK 2020-3.6	20	20	20.75	17.5	2×1.8	11.1	24.7	290
BLK 2525-2.8	25	25	26	21.9	1×2.8	12.2	26.9	270
BLK 2525-3.6	25	25	26	21.9	2×1.8	16.6	38.7	350
BLK 3232-2.8	32	32	33.25	28.3	1×2.8	17.3	41.4	340
BLK 3232-3.6	32	32	33.25	28.3	2×1.8	23.7	59.5	440
BLK 3620-5.6	36	20	37.75	31.2	2×2.8	54.9	134.3	760
BLK 3624-5.6	36	24	38	30.7	2×2.8	63.8	151.9	770
BLK 3636-2.8	36	36	37.4	31.7	1×2.8	22.4	54.1	390
BLK 3636-3.6	36	36	37.4	31.7	2×1.8	30.8	78	490
BLK 4040-2.8	40	40	41.75	35.2	1×2.8	28.2	68.9	430
BLK 4040-3.6	40	40	41.75	35.2	2×1.8	38.7	99.2	550
BLK 5050-2.8	50	50	52.2	44.1	1×2.8	42.2	107.8	530
BLK 5050-3.6	50	50	52.2	44.1	2×1.8	57.8	155	670

## Positioning Ball Screw



Unit: mm

	Nut dimensions										Screw shaft inertial moment/mm <sup>3</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>	Tw	N <sub>1</sub>	Lubrication hole A				
	18	31	20	4	10	25	3.4	20	—	—	3.16 × 10 <sup>-9</sup>	0.03	0.36	3500
	34	57	44	10	24	45	5.5	40	5	M6	3.9 × 10 <sup>-8</sup>	0.34	0.31	4440
	32	53	54	10	37.5	42	4.5	38	5	M6	5.05 × 10 <sup>-8</sup>	0.32	1.41	4200
	32	53	38	10	21.5	42	4.5	38	5	M6	5.05 × 10 <sup>-8</sup>	0.21	1.41	4200
	39	62	65	10	47.5	50	5.5	46	5	M6	1.23 × 10 <sup>-7</sup>	0.49	2.25	3370
	39	62	45	10	27.5	50	5.5	46	5	M6	1.23 × 10 <sup>-7</sup>	0.35	2.25	3370
	47	74	80	12	60	60	6.6	56	6	M6	3.01 × 10 <sup>-7</sup>	0.89	3.52	2690
	47	74	55	12	35	60	6.6	56	6	M6	3.01 × 10 <sup>-7</sup>	0.64	3.52	2690
	58	92	102	15	77	74	9	68	7.5	M6	8.08 × 10 <sup>-7</sup>	1.78	5.83	2100
	58	92	70	15	45	74	9	68	7.5	M6	8.08 × 10 <sup>-7</sup>	1.32	5.83	2100
	70	110	78	17	45	90	11	80	8.5	M6	1.29 × 10 <sup>-6</sup>	2.23	6.49	1850
	75	115	94	18	59	94	11	86	9	M6	1.29 × 10 <sup>-6</sup>	3.05	6.39	1840
	66	106	113	17	86	85	11	76	8.5	M6	1.29 × 10 <sup>-6</sup>	2.61	7.34	1870
	66	106	77	17	50	85	11	76	8.5	M6	1.29 × 10 <sup>-6</sup>	1.93	7.34	1870
	73	114	125	17	96.5	93	11	84	8.5	M6	1.97 × 10 <sup>-6</sup>	3.4	9.01	1670
	73	114	85	17	56.5	93	11	84	8.5	M6	1.97 × 10 <sup>-6</sup>	2.48	9.01	1670
	90	135	156	20	122	112	14	104	10	M6	4.82 × 10 <sup>-6</sup>	6.18	14.08	1340
	90	135	106	20	72	112	14	104	10	M6	4.82 × 10 <sup>-6</sup>	4.45	14.08	1340

Note) The Model BLK can be equipped with a brush seal depending on the model number. Contact THK if you would like to use one.

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