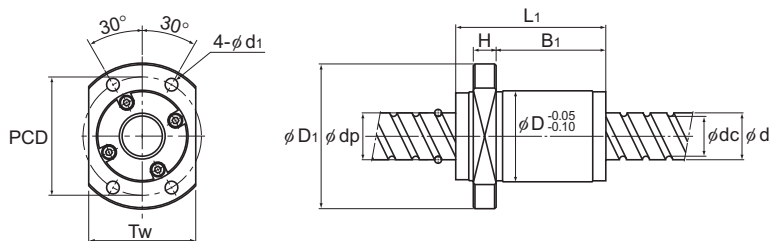


# BLK (Rolled Ball Screw) No Preload

DN value	70000
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BLK0808/1010

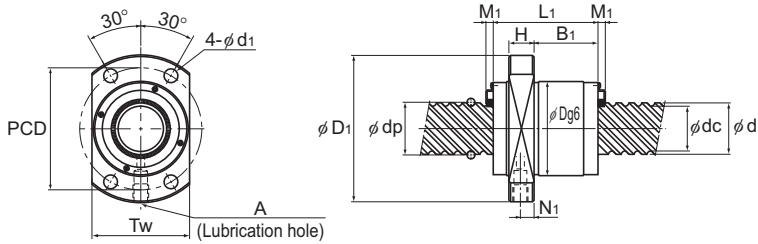
Model No.	Screw shaft outer diameter d	Lead Ph	Ball center-to-center diameter dp	Thread minor diameter dc	No. of loaded circuits Rows X turns	Basic load rating		Rigidity K	Outer diameter D	Flange diameter D <sub>1</sub>	Overall length L <sub>1</sub>	H
						Ca kN	C <sub>0a</sub> kN					
BLK 0808-3.2	8	8	8.4	6.7	2×1.6	2.2	3.8	95	18	31	20	4
BLK 1010-3.2	10	10	10.5	8.4	2×1.6	3.3	5.9	117	23	40	24	5
BLK 1510-5.6	15	10	15.75	12.5	2×2.8	9.8	25.2	260	34	57	44	10
BLK 1616-3.6	16	16	16.65	13.7	2×1.8	5.8	12.9	170	32	53	38	10
BLK 1616-7.2	16	16	16.65	13.7	4×1.8	10.5	25.9	340	32	53	38	10
BLK 2020-3.6	20	20	20.75	17.5	2×1.8	7.7	22.3	210	39	62	45	10
BLK 2020-7.2	20	20	20.75	17.5	4×1.8	13.9	44.6	410	39	62	45	10
BLK 2525-3.6	25	25	26	21.9	2×1.8	12.1	35	270	47	74	55	12
BLK 2525-7.2	25	25	26	21.9	4×1.8	21.9	69.9	520	47	74	55	12
BLK 3232-3.6	32	32	33.25	28.3	2×1.8	17.3	53.9	330	58	92	70	15
BLK 3232-7.2	32	32	33.25	28.3	4×1.8	31.3	107.8	650	58	92	70	15
BLK 3620-5.6	36	20	37.75	31.2	2×2.8	39.8	121.7	570	70	110	78	17
BLK 3624-5.6	36	24	38	30.7	2×2.8	46.2	137.4	590	75	115	94	18
BLK 3636-3.6	36	36	37.4	31.7	2×1.8	22.4	70.5	370	66	106	77	17
BLK 3636-7.2	36	36	37.4	31.7	4×1.8	40.6	141.1	730	66	106	77	17
BLK 4040-3.6	40	40	41.75	35.2	2×1.8	28.1	89.8	420	73	114	85	17
BLK 4040-7.2	40	40	41.75	35.2	4×1.8	51.1	179.6	810	73	114	85	17
BLK 5050-3.6	50	50	52.2	44.1	2×1.8	42.1	140.4	510	90	135	106	20
BLK 5050-7.2	50	50	52.2	44.1	4×1.8	76.3	280.7	1000	90	135	106	20

## Model number coding

**BLK3232-3.6 ZZ +1500L C7 T H1K**

Model No.	Contamination protection accessory symbol (*1)	Overall screw shaft length (in mm)	Accuracy symbol (*2)	Symbol for rolled shaft	Recommended shaft ends shape code
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(\*1) See **A15-326**. (\*2) See **A15-12**.



BLK1510~5050

Unit: mm

Nut dimensions							Seal	Axial clearance	Standard shaft length	Screw shaft inertial moment kg·m <sup>2</sup> /mm	Nut mass kg	Shaft mass kg/m
B <sub>1</sub>	PCD	d <sub>1</sub>	Tw	Lubrication hole		M <sub>1</sub>						
				N <sub>1</sub>	A							
10	25	3.4	20	—	—	—	0.1	—	3.16 × 10 <sup>-9</sup>	0.03	0.36	
13	32	4.5	25	—	—	—	0.1	—	7.71 × 10 <sup>-9</sup>	0.06	0.55	
24	45	5.5	40	5	M6	3.5	0.1	500, 1000	3.90 × 10 <sup>-8</sup>	0.26	1.16	
21.5	42	4.5	38	5	M6	3.5	0.1	500, 1000, 1500	5.05 × 10 <sup>-8</sup>	0.21	1.35	
21.5	42	4.5	38	5	M6	3.5	0.1	500, 1000, 1500	5.05 × 10 <sup>-8</sup>	0.25	1.35	
27.5	50	5.5	46	5	M6	3.5	0.1	500, 1000, 1500	1.23 × 10 <sup>-7</sup>	0.35	2.18	
27.5	50	5.5	46	5	M6	3.5	0.1	500, 1000, 1500	1.23 × 10 <sup>-7</sup>	0.35	2.18	
35	60	6.6	56	6	M6	3.5	0.1	500, 1000, 1500, 2000, 2500	3.01 × 10 <sup>-7</sup>	0.64	3.41	
35	60	6.6	56	6	M6	3.5	0.1	500, 1000, 1500, 2000, 2500	3.01 × 10 <sup>-7</sup>	0.64	3.41	
45	74	9	68	7.5	M6	3.8	0.14	1000, 1500, 2000, 2500, 3000	8.08 × 10 <sup>-7</sup>	1.14	5.69	
45	74	9	68	7.5	M6	3.8	0.14	1000, 1500, 2000, 2500, 3000	8.08 × 10 <sup>-7</sup>	1.14	5.69	
45	90	11	80	8.5	M6	5	0.17	1000, 1500, 2000, 2500, 3000	1.29 × 10 <sup>-6</sup>	1.74	7.09	
59	94	11	86	9	M6	5	0.17	1000, 1500, 2000, 2500, 3000	1.29 × 10 <sup>-6</sup>	2.42	7.02	
50	85	11	76	8.5	M6	5	0.17	1000, 1500, 2000, 2500, 3000	1.29 × 10 <sup>-6</sup>	1.74	7.12	
50	85	11	76	8.5	M6	5	0.17	1000, 1500, 2000, 2500, 3000	1.29 × 10 <sup>-6</sup>	1.74	7.12	
56.5	93	11	84	8.5	M6	5.4	0.17	1000, 1500, 2000, 2500, 3000, 4000	1.97 × 10 <sup>-6</sup>	2.16	8.76	
56.5	93	11	84	8.5	M6	5.4	0.17	1000, 1500, 2000, 2500, 3000, 4000	1.97 × 10 <sup>-6</sup>	2.16	8.76	
72	112	14	104	10	M6	5.4	0.2	1000, 1500, 2000, 3000, 4000	4.82 × 10 <sup>-6</sup>	3.89	13.79	
72	112	14	104	10	M6	5.4	0.2	1000, 1500, 2000, 3000, 4000	4.82 × 10 <sup>-6</sup>	3.86	13.79	

Note) The overall length of the nut will increase when equipping the QZ lubricating device. See **A15-336** for further details.