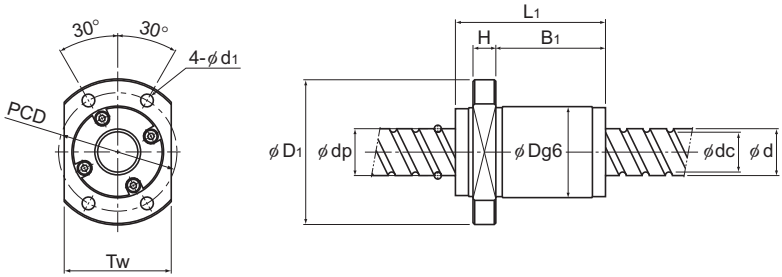
BLK (Precision Ball Screw)
No Preload

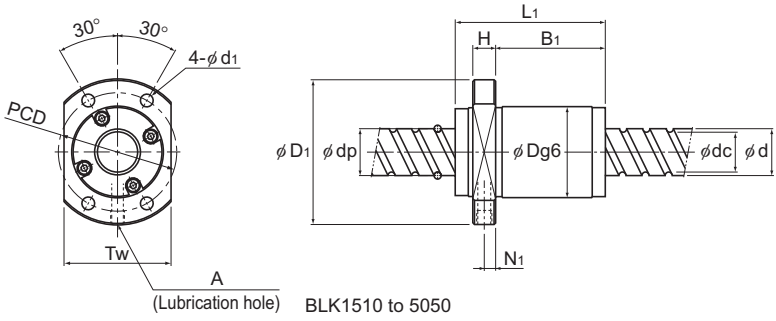
DN value	70,000



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 × turns	Basic load rating Ca kN	Basic load rating C₀a kN	Rigidity K N/μm
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

Download data from the THK Online Services website. https://www.thk.com/



BLK1510 to 5050

Unit: mm

	Nut dimensions										Screw shaft inertial moment/mm	Nut mass	Shaft mass	Permissible rotational speed
	Outer diameter D	Flange diameter D_1	Overall length L_1	H	B_1	PCD	d_1	Tw	N_1	Lubrication hole A	$kg \cdot m^2/mm$	kg	kg/m	min^{-1}
	18	31	20	4	10	25	3.4	20	—	—	3.16×10^{-9}	0.03	0.36	3,500
	34	57	44	10	24	45	5.5	40	5	M6	3.9×10^{-8}	0.34	0.31	4,440
	32	53	54	10	37.5	42	4.5	38	5	M6	5.05×10^{-8}	0.32	1.41	4,200
	32	53	38	10	21.5	42	4.5	38	5	M6	5.05×10^{-8}	0.21	1.41	4,200
	39	62	65	10	47.5	50	5.5	46	5	M6	1.23×10^{-7}	0.49	2.25	3,370
	39	62	45	10	27.5	50	5.5	46	5	M6	1.23×10^{-7}	0.35	2.25	3,370
	47	74	80	12	60	60	6.6	56	6	M6	3.01×10^{-7}	0.89	3.52	2,690
	47	74	55	12	35	60	6.6	56	6	M6	3.01×10^{-7}	0.64	3.52	2,690
	58	92	102	15	77	74	9	68	7.5	M6	8.08×10^{-7}	1.78	5.83	2,100
	58	92	70	15	45	74	9	68	7.5	M6	8.08×10^{-7}	1.32	5.83	2,100
	70	110	78	17	45	90	11	80	8.5	M6	1.29×10^{-6}	2.23	6.49	1,850
	75	115	94	18	59	94	11	86	9	M6	1.29×10^{-6}	3.05	6.39	1,840
	66	106	113	17	86	85	11	76	8.5	M6	1.29×10^{-6}	2.61	7.34	1,870
	66	106	77	17	50	85	11	76	8.5	M6	1.29×10^{-6}	1.93	7.34	1,870
	73	114	125	17	96.5	93	11	84	8.5	M6	1.97×10^{-6}	3.4	9.01	1,670
	73	114	85	17	56.5	93	11	84	8.5	M6	1.97×10^{-6}	2.48	9.01	1,670
	90	135	156	20	122	112	14	104	10	M6	4.82×10^{-6}	6.18	14.08	1,340
	90	135	106	20	72	112	14	104	10	M6	4.82×10^{-6}	4.45	14.08	1,340

Notes: 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 Lubricator. See A15-366 for further details.

Options⇒A15-355