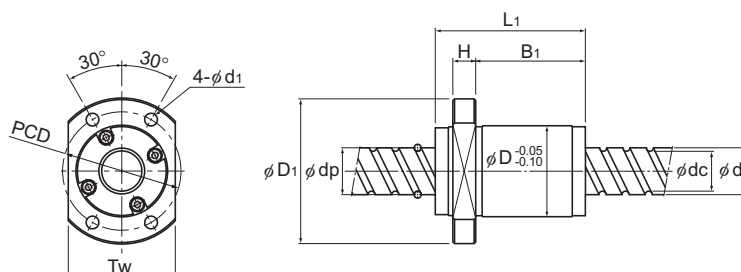


BLK (Rolled Ball Screw) No Preload

DN value	70,000
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BLK0808/1010

Model No.	Screw shaft outer diameter	Lead	Ball center-to-center diameter	Thread minor diameter	No. of loaded circuits	Basic load rating		Rigidity				
						Ca	C _{0a}		K	Outer diameter	Flange diameter	Overall length
						d	Ph	dp	dc	Rows X turns	kN	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	1,000	90	135	106	20

Model number coding

BLK3232-3.6 ZZ +1500L C7 T H1K

Model No.

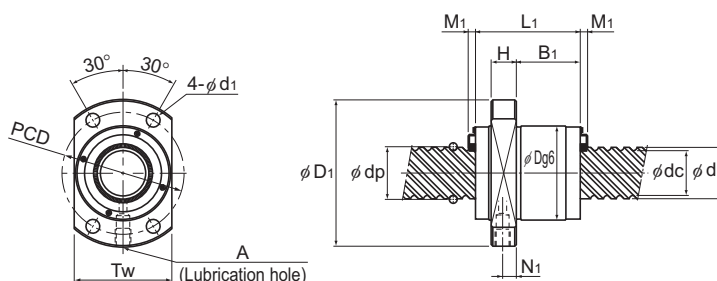
Contamination
protection
accessory
symbol¹Overall screw
shaft length
(in mm)Accuracy symbol²Symbol for
rolled shaftRecommended shaft
ends shape code

¹ See **A15-356**. ² See **A15-12**.

A15-268 THK

Download data from
the THK Online Services website.

<https://www.thk.com/>



BLK1510~5050

Unit: mm

Nut dimensions							Axial clearance	Standard shaft length	Screw shaft inertial moment/ mm	Nut mass	Shaft mass	Permissible rotational speed	
	B _i	PCD	d _i	Tw	Lubrication hole								Seal
					N _i	A							
	10	25	3.4	20	—	—	—	0.1	—	3.16×10 ⁻⁹	0.03	0.36	3,500
	13	32	4.5	25	—	—	—	0.1	—	7.71×10 ⁻⁹	0.06	0.55	3,500
	24	45	5.5	40	5	M6	3.5	0.1	500, 1,000	3.90×10 ⁻⁸	0.26	1.16	4,440
	21.5	42	4.5	38	5	M6	3.5	0.1	500, 1,000, 1,500	5.05×10 ⁻⁸	0.21	1.35	4,200
	21.5	42	4.5	38	5	M6	3.5	0.1	500, 1,000, 1,500	5.05×10 ⁻⁸	0.25	1.35	4,200
	27.5	50	5.5	46	5	M6	3.5	0.1	500, 1,000, 1,500	1.23×10 ⁻⁷	0.35	2.18	3,370
	27.5	50	5.5	46	5	M6	3.5	0.1	500, 1,000, 1,500	1.23×10 ⁻⁷	0.35	2.18	3,370
	35	60	6.6	56	6	M6	3.5	0.1	500, 1,000, 1,500, 2,000, 2,500	3.01×10 ⁻⁷	0.64	3.41	2,690
	35	60	6.6	56	6	M6	3.5	0.1	500, 1,000, 1,500, 2,000, 2,500	3.01×10 ⁻⁷	0.64	3.41	2,690
	45	74	9	68	7.5	M6	3.8	0.14	1,000, 1,500, 2,000, 2,500, 3,000	8.08×10 ⁻⁷	1.14	5.69	2,100
	45	74	9	68	7.5	M6	3.8	0.14	1,000, 1,500, 2,000, 2,500, 3,000	8.08×10 ⁻⁷	1.14	5.69	2,100
	45	90	11	80	8.5	M6	5	0.17	1,000, 1,500, 2,000, 2,500, 3,000	1.29×10 ⁻⁶	1.74	7.09	1,850
	59	94	11	86	9	M6	5	0.17	1,000, 1,500, 2,000, 2,500, 3,000	1.29×10 ⁻⁶	2.42	7.02	1,840
	50	85	11	76	8.5	M6	5	0.17	1,000, 1,500, 2,000, 2,500, 3,000	1.29×10 ⁻⁶	1.74	7.12	1,870
	50	85	11	76	8.5	M6	5	0.17	1,000, 1,500, 2,000, 2,500, 3,000	1.29×10 ⁻⁶	1.74	7.12	1,870
	56.5	93	11	84	8.5	M6	5.4	0.17	1,000, 1,500, 2,000, 2,500, 3,000, 4,000	1.97×10 ⁻⁶	2.16	8.76	1,670
	56.5	93	11	84	8.5	M6	5.4	0.17	1,000, 1,500, 2,000, 2,500, 3,000, 4,000	1.97×10 ⁻⁶	2.16	8.76	1,670
	72	112	14	104	10	M6	5.4	0.2	1,000, 1,500, 2,000, 3,000, 4,000	4.82×10 ⁻⁶	3.89	13.79	1,340
	72	112	14	104	10	M6	5.4	0.2	1,000, 1,500, 2,000, 3,000, 4,000	4.82×10 ⁻⁶	3.86	13.79	1,340

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

Options⇒ **A15-355****THK A15-269**