



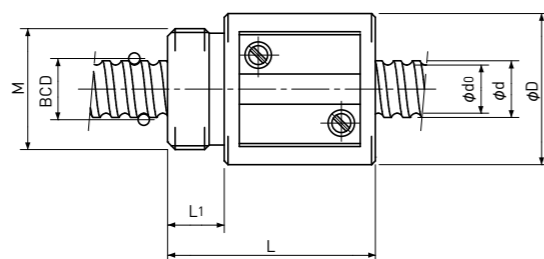
Single Nut with M-thread



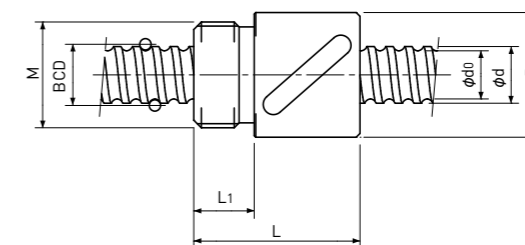
Precision Ball Screws

Single Nut with M-thread

Backlash type/Preload type



Type-1:Return-plate type



Type-2:Return-tube type

Unit: mm

Ball Nut Model number	Shaft nominal dia. d	Lead	Ball size	BCD	Lead angle	Root dia. d ₀	Number of Circuit	Basic Load Rating		Nut Rigidity N/μm	Nut dimension				Ball Nut Model number	
								N			Nut type	D	L	L ₁		M
								Dynamic C _a	Static C _{0a}							
MS 0401 B	4	1	0.8	4.15	4° 23'	3.3	3.7x1	560 / 350	790 / 400	54 / 45	1	11	17	4	M9x0.75	MS 0401 B
MS 0602 A	6	2	1.0	6.20	5° 52'	5.1	2.7x1	750 / 470	1200 / 590	58 / 49	1	16.5	22	8	M14x1.0	MS 0602 A
MS 0801.5 B	8	1.5	1.0	8.20	3° 20'	7.1	3.7x1	1100 / 700	2200 / 1100	99 / 83	1	16.5	24	8	M14x1.0	MS 0801.5 B
MS 0802 B	8	2	1.5875	8.30	4° 23'	6.6	3.7x1	2400 / 1550	4100 / 2100	111 / 94	1	20	27.5	7.5	M16x1.0	MS 0802 B
MS 0802.5 T(1)	8	2.5	1.5875	8.00	5° 41'	6.3	3.5x1	2300 / -	3900 / -	102 / -	2	16.5	22	8	M14x1.0	MS 0802.5 T(1)
MS 0802.5 T(2)	8	2.5	1.5875	8.00	5° 41'	6.3	3.5x1	2300 / -	3900 / -	102 / -	2	17.5	25.5	7.5	M15x1.0	MS 0802.5 T(2)
MS 0803 A	8	3	2.0	8.30	6° 34'	6.2	2.7x1	2600 / 1650	4200 / 2100	85 / 70	1	20	28.5	7.5	M16x1.0	MS 0803 A
MS 0804 T	8	4	1.5875	8.00	9° 03'	5.9	2.5x1	1750 / -	2800 / -	75 / -	2	16.5	24	8	M14x1.0	MS 0804 T
MS 0805 A	8	5	1.5875	8.30	10° 51'	6.6	2.7x1	1850 / 1150	3000 / 1500	82 / 67	1	18	32.5	7.5	M15x1.0	MS 0805 A

Basic Load Rating		Nut Rigidity N/μm
Dynamic	Static	
C _a	C _{0a}	164 / 138
1000 / 640	3300 / 1650	

Preload type
Backlash type

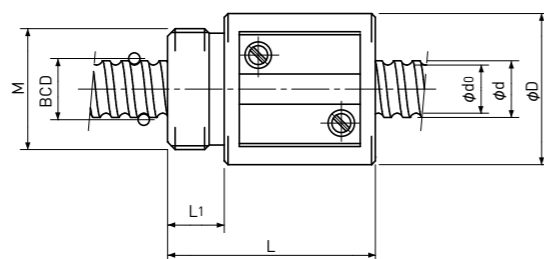
- Note 1) The diameter of one of the Screw Shaft ends must be less than the Screw Shaft Root diameter, otherwise Ball Nut cannot be installed.
- Note 2) Ball Nut dimension is without seal at the both ends. All type of Ball Nuts cannot equip with seals.
- Note 3) The Rigidity values shown in the table are theoretical values of Ball Nut Rigidity calculated from the amount of Elastic Displacement under the following conditions.
Backlash type ; Apply the Axial load equivalent to 30% of the Basic Dynamic Load Rating C_a.
Preload type ; Apply the Preload equivalent to 5% of the Basic Dynamic Load Rating C_a.
For Axial load or Preload condition other than the above, see the formula in p-A823, you can calculate Rigidity using this formula.
- Note 4) All models are Right-hand Screw. If Left-hand Screw is required, please ask KSS representative.
- Note 5) Across Flats or drill hole is available on the Ball Nut for the convenience of assembly. Please ask KSS representative.
- Note 6) Basic Load Rating or Rigidity for Backlash type and Preload type are described in the same cell.



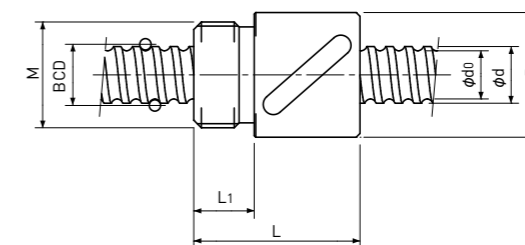
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Unit: mm

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								N			Nut type	D	L	L ₁	M	
								Dynamic C _a	Static C _{0a}							
MS 1002 B	10	2	1.5875	10.30	3°32'	8.6	3.7x1	2700 / 1750	5300 / 2700	134 / 112	1	23	27.5	7.5	M17x1.0	MS 1002 B
MS 1202 B	12	2	1.5875	12.30	2°58'	10.6	3.7x1	3000 / 1900	6400 / 3200	156 / 132	1	25	30	10	M20x1.0	MS 1202 B
MS 1204 T	12	4	2.381	12.30	5°55'	9.8	2.5x1	3900 / -	7000 / -	113 / -	2	25.5	34	10	M20x1.0	MS 1204 T
MS 1402 B	14	2	1.5875	14.30	2°33'	12.6	3.7x1	3200 / 2000	7500 / 3800	176 / 148	1	26	30	10	M22x1.5	MS 1402 B
MS 1404 B	14	4	2.381	14.30	5°05'	11.8	3.7x1	5700 / 3600	11600 / 5800	187 / 157	1	30	38	10	M25x1.0	MS 1404 B

Basic Load Rating		Nut Rigidity N/μm
N		
Dynamic C _a	Static C _{0a}	164 / 138
1000 / 640	3300 / 1650	

Preload type
Backlash type

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