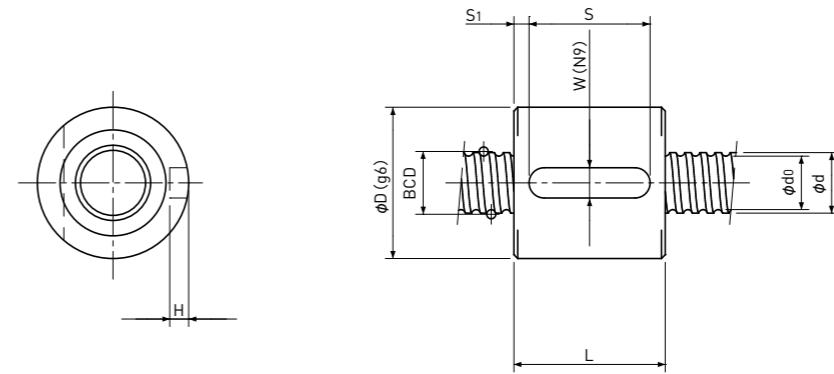


Precision Ball Screws

Sleeve type Single Nut

Backlash type/Preload 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 N		Nut Rigidity N/μm	Nut dimension						Ball Nut Model number
								Dynamic Ca	Static : Coa		D	L	W	H	S	S ₁	
BS 0801 B	8	1	0.8	8.15	2° 15'	7.3	3.7×1	780 / 490	1650 / 820	95 / 80	16	14	3	1.8	10	2	BS 0801 B
BS 0801.5 B	8	1.5	1.0	8.20	3° 20'	7.1	3.7×1	1100 / 700	2200 / 1100	99 / 83	16	16	3	1.8	10	3	BS 0801.5 B
BS 0802 B (1)	8	2	1.0	8.20	4° 26'	7.1	3.7×1	1100 / 700	2200 / 1100	99 / 83	16	18	3	1.8	12	3	BS 0802 B (1)
BS 0802 B (2)	8	2	1.5875	8.30	4° 23'	6.6	3.7×1	2400 / 1550	4100 / 2100	111 / 94	20	20	4	2.5	16	2	BS 0802 B (2)
BS 0802.5 A	8	2.5	1.5875	8.00	5° 41'	6.3	2.7×1	1850 / -	3000 / -	80 / -	16	16	3	1.8	8	4	BS 0802.5 A
BS 0802.5 B	8	2.5	1.5875	8.30	5° 29'	6.6	3.7×1	2400 / 1550	4100 / 2100	111 / 93	20	22	4	2.5	16	3	BS 0802.5 B
BS 0803 A	8	3	2.0	8.30	6° 34'	6.2	2.7×1	2600 / 1650	4200 / 2100	85 / 70	20	22	4	2.5	16	3	BS 0803 A
BS 0804 A	8	4	2.0	8.30	8° 43'	6.2	2.7×1	2600 / 1650	4200 / 2100	84 / 70	21	26	4	2.5	20	3	BS 0804 A
BS 0805 A	8	5	1.5875	8.30	10° 51'	6.6	2.7×1	1850 / 1150	3000 / 1500	82 / 67	18	28	4	2.5	20	4	BS 0805 A

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.

If the seals are required, Ball Nut dimension should be changed, in that case, please ask KSS. Some type of Ball Nuts cannot equip with seals, please ask KSS representative.

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 Ca.
Preload type ; Apply the Preload equivalent to 5% of the Basic Dynamic Load Rating Ca.

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) Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.

Basic Load Rating N		Nut Rigidity N/μm
Dynamic Ca	Static Coa	
1000 / 640	3300 / 1650	164 / 138
		Preload type
		Backlash type