

KS Square Nut Ball Screw



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Call: 01386 421 005

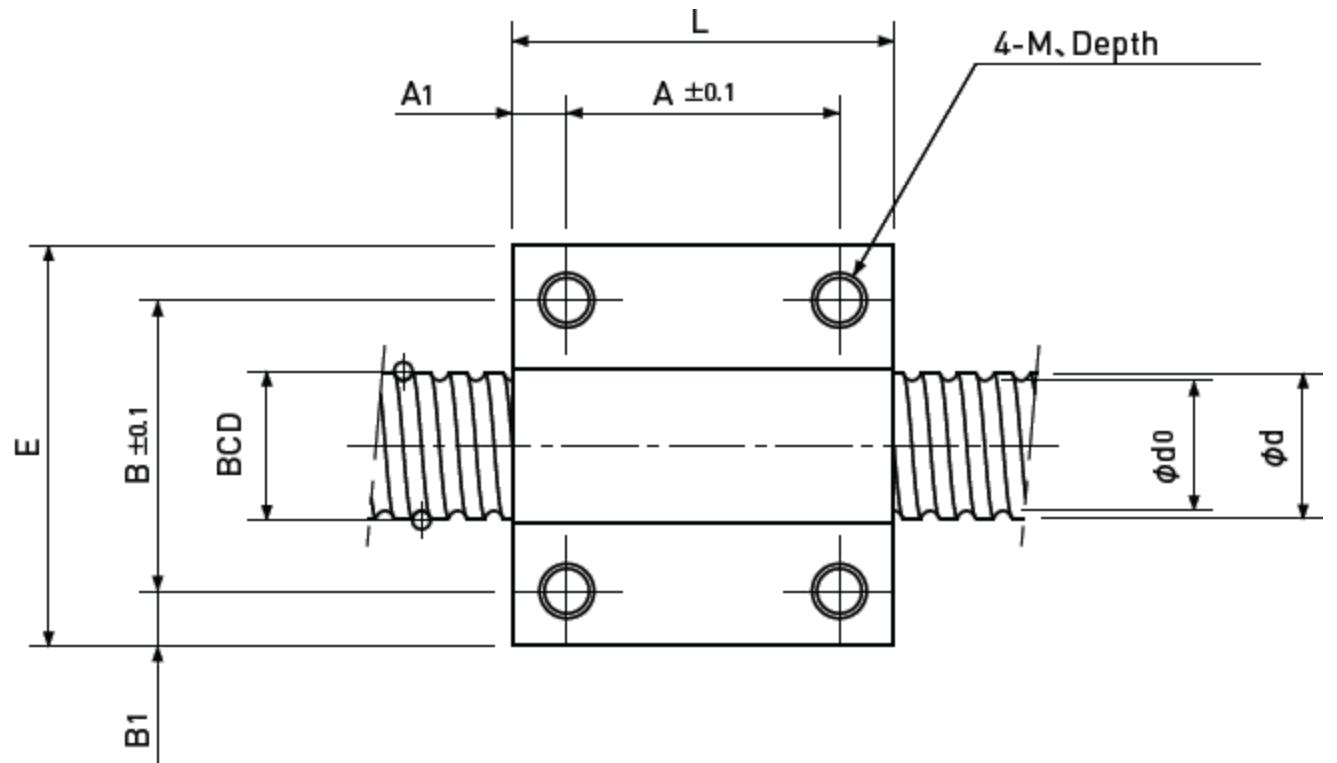
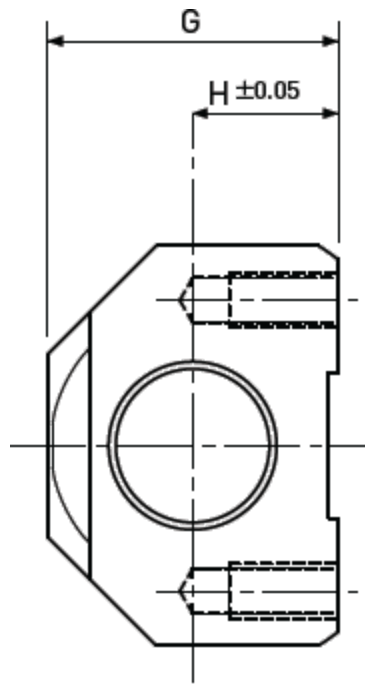
Email: sales@abssac.co.uk

Web: www.abssac.co.uk

Precision Ball Screws

Square 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
								Dynamic Ca	Static Coa	
KS 0601 B	6	1	0.8	6.15	2°58'	5.3	3.7×1	680 / 430	1200 / 610	75 / 63
KS 0602 A	6	2	1.0	6.20	5°52'	5.1	2.7×1	750 / 470	1200 / 590	58 / 49
KS 0801 B	8	1	0.8	8.15	2°15'	7.3	3.7×1	780 / 490	1650 / 820	95 / 80
KS 0802 A	8	2	1.0	8.20	4°26'	7.1	2.7×1	850 / 540	1600 / 800	74 / 61
KS 1001 B	10	1	0.8	10.15	1°48'	9.3	3.7×1	840 / 530	2000 / 1000	113 / 95
KS 1002 B	10	2	1.5875	10.30	3°32'	8.6	3.7×1	2700 / 1750	5300 / 2700	134 / 112

Ball Nut Model number	Nut dimension									
	L	E	G	H	A	A ₁	B	B ₁	M	Z
KS 0601 B	20	20	14	7	14	3	14	3	M3	6
KS 0602 A	20	20	14	7	14	3	14	3	M3	6
KS 0801 B	21	22	16	8	15	3	16	3	M3	6
KS 0802 A	21	22	16	8	15	3	16	3	M3	6
KS 1001 B	26	28	22	12	18	4	20	4	M4	7
KS 1002 B	26	28	23	12	18	4	20	4	M4	7

Basic Load Rating N		Nut Rigidity N/μm
Dynamic Ca	Static Coa	
1000 / 640	3300 / 1650	164 / 138
		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 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 ABSSAC representative.
- Note 5) Basic Load Rating and Rigidity for Backlash type and Preload type are described in the same cell.