

BSR Compact Ball Screw



- BSR Compact Ball Screw

Call: 01386 421 005

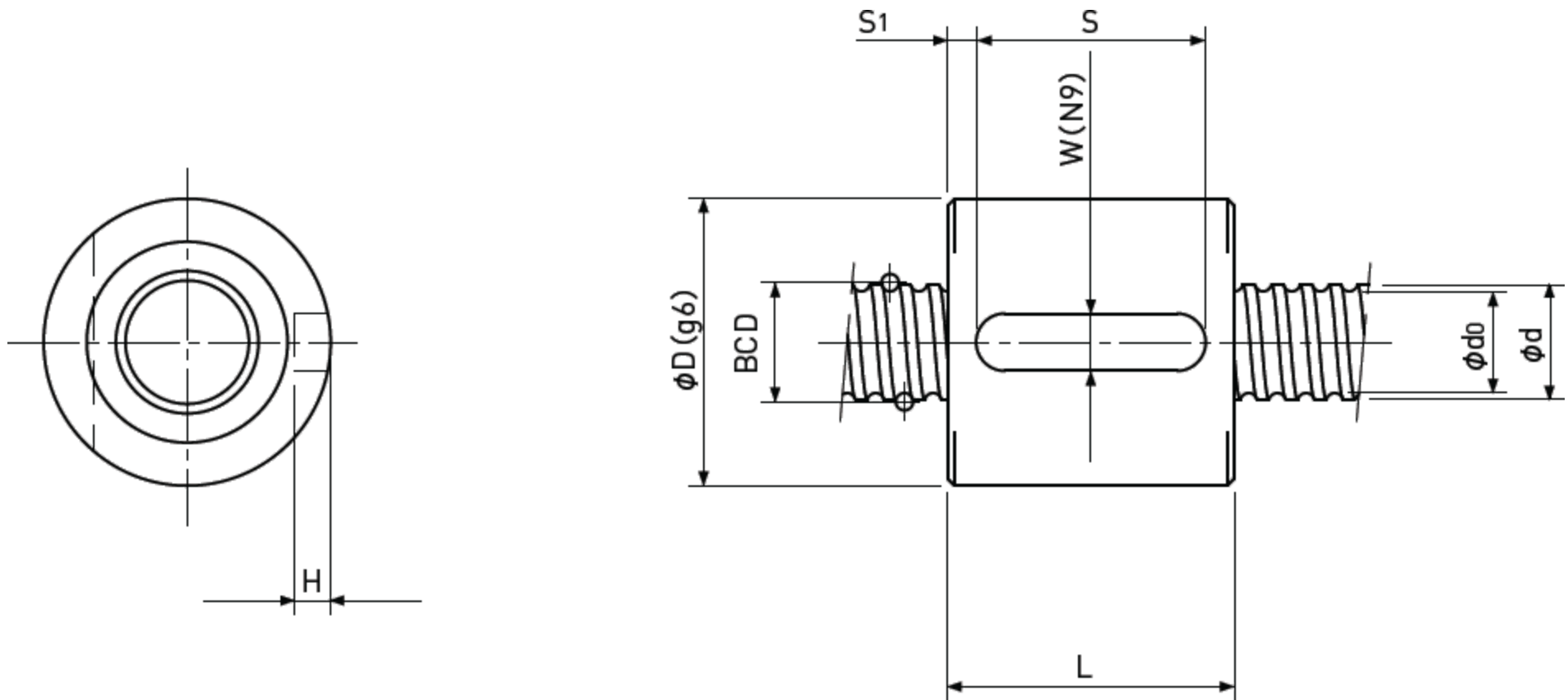
Email: sales@abssac.co.uk

Web: www.abssac.co.uk

Rolled Ball Screws

Sleeve type Single Nut

Backlash 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	
BSR 0401	4	1	0.8	4.15	4°23'	3.3	3.7x1	560	790	54
BSR 0402	4	2	0.8	4.15	8°43'	3.3	2.7x1	420	570	39
BSR 0504	5	4	0.8	5.15	13°53'	4.3	2.7x1	470	720	47
BSR 0601 **	6	1	0.8	6.15	2°58'	5.3	3.7x1	680	1200	75
BSR 0602	6	2	1	6.2	5°52'	5.1	2.7x1	750	1200	58
BSR 0801 **	8	1	0.8	8.15	2°15'	7.3	3.7x1	780	1650	95
BSR 0802 **	8	2	1.5875	8.3	4°23'	6.6	3.7x1	2400	4100	111
BSR 0802.5	8	2.5	1.5875	8	5°41'	6.3	2.7x1	1850	3000	80
BSR 0805	8	5	1.5875	8.3	10°51'	6.6	2.7x1	1850	3000	82

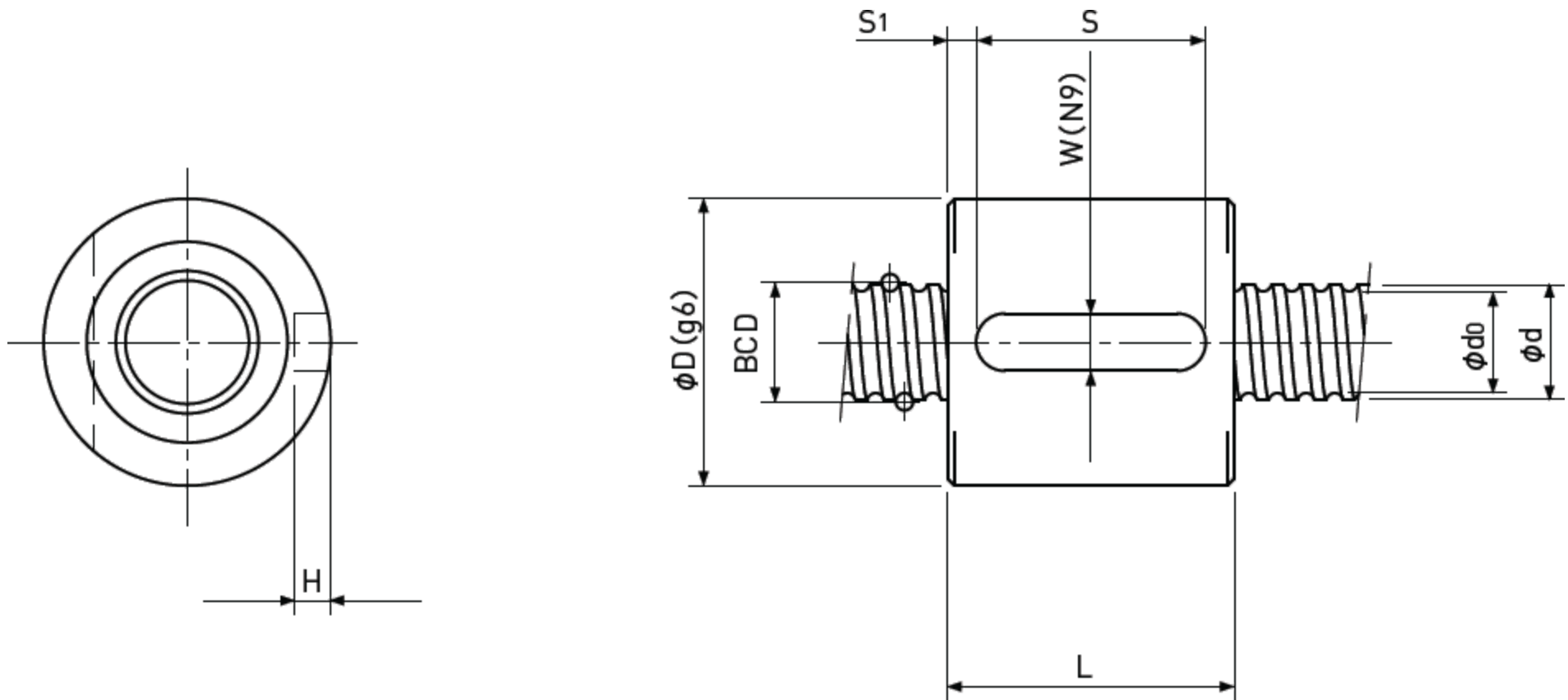
Ball Nut Model number	Nut dimension					
	D	L	W	H	S	S ₁
BSR 0401	11	14	3	1.8	8	3
BSR 0402	11	16	3	1.8	8	4
BSR 0504	12	22	3	1.8	12	5
BSR 0601 **	13	14	3	1.8	10	2
BSR 0602	15	15	3	1.8	10	2.5
BSR 0801 **	16	14	3	1.8	10	2
BSR 0802 **	20	20	4	2.5	16	2
BSR 0802.5	16	16	3	1.8	8	4
BSR 0805	18	28	4	2.5	20	4

- Note 1) All models are Right-hand screw.
 Note 2) The diameter of the Screw Shaft both ends must be less than the Screw Shaft Root diameter, because of production and Nut assembly reason. If bigger end-journal than Shaft diameter is required, please consult ABSSAC.
 Note 3) Ball Nut dimension is without seal at the both ends. All type of Ball Nuts cannot equip with seals.
 Note 4) Rigidity
 The Rigidity values shown in the table are theoretical values calculated from the amount of Elastic Displacement under the Axial load equivalent to 30% of the Basic Dynamic Load Rating Ca.
 Note 5) Stainless Rolled Ball Screw
 Stainless Rolled Ball Screw is available for Ball Nut Model Number marked **.

Rolled Ball Screws

Sleeve type Single Nut

Backlash 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	
BSR 1002 **	10	2	1.5875	10.3	3°32'	8.6	3.7x1	2700	5300	134
BSR 1004	10	4	2	10.3	7°03'	8.2	2.7x1	3000	5200	104
BSR 1005	10	5	2	10.3	8°47'	8.2	2.7x1	3000	5200	103
BSR 1006	10	6	2	10.3	10°30'	8.2	2.7x1	3000	5000	102
BSR 1202	12	2	1.5875	12.3	2°58'	10.6	3.7x1	3000	6400	156
BSR 1402	14	2	1.5875	14.3	2°33'	12.6	3.7x1	3200	7500	176
BSR 1404	14	4	2.381	14.3	5°05'	11.8	3.7x1	5700	11600	187

Ball Nut Model number	Nut dimension					
	D	L	W	H	S	S ₁
BSR 1002 **	23	20	5	3	16	2.5
BSR 1004	24	26	5	3	20	3
BSR 1005	23	26	5	3	16	5
BSR 1006	26	31	5	3	20	5.5
BSR 1202	25	20	5	3	16	2
BSR 1402	26	20	5	3	16	2
BSR 1404	30	31	5	3	25	3

- Note 1) All models are Right-hand screw.
 Note 2) The diameter of the Screw Shaft both ends must be less than the Screw Shaft Root diameter, because of production and Nut assembly reason. If bigger end-journal than Shaft diameter is required, please consult ABSSAC.
 Note 3) Ball Nut dimension is without seal at the both ends. All type of Ball Nuts cannot equip with seals.
 Note 4) Rigidity
 The Rigidity values shown in the table are theoretical values calculated from the amount of Elastic Displacement under the Axial load equivalent to 30% of the Basic Dynamic Load Rating Ca.
 Note 5) Stainless Rolled Ball Screw
 Stainless Rolled Ball Screw is available for Ball Nut Model Number marked **.