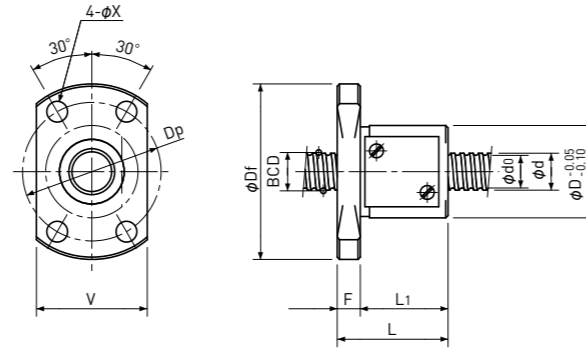
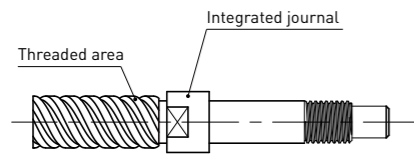


Rolled Ball Screws

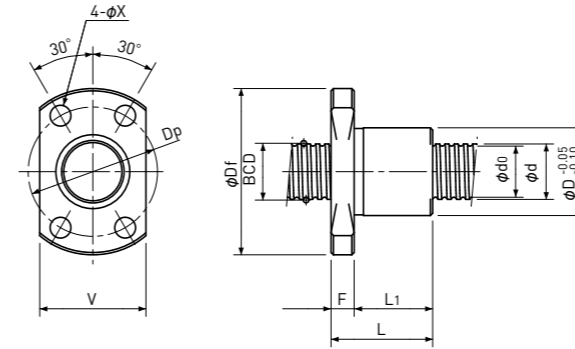
Single Nut with Flange

Backlash type

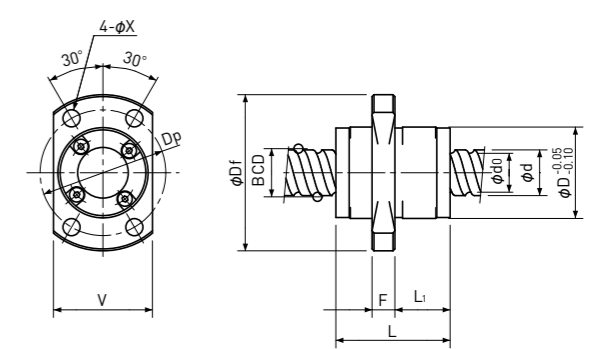
■ Rolled Ball Screws with integrated journal are available ($\phi 12$ or less only), which have larger diameter than threaded area shown below.



Type-1:Return-plate type



Type-2:Internal-deflector type or End-deflector type



Type-3:End-cap type or End-deflector 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		Nut type	D	Df	L	L ₁	F	W	V	Dp	Bolt Hole X	
MRB 0401	4	1	0.8	4.15	4° 23'	3.3	3.7×1	560	790	54	1	11	23	17	13	4	—	15	17	3.4	MRB 0401
MRB 0401K	4	1	0.6	4.15	4° 23'	3.4	1×3	300	430	38	2	9	19	13	10	3	—	13	14	2.9	MRB 0401K
MRB 0402	4	2	0.8	4.15	8° 43'	3.3	2.7×1	420	570	39	1	11	23	19	15	4	—	15	17	3.4	MRB 0402
MRB 0504	5	4	0.8	5.15	13° 53'	4.3	2.7×1	470	720	47	1	12	24	22	18	4	—	16	18	3.4	MRB 0504
MRB 0601 **	6	1	0.8	6.15	2° 58'	5.3	3.7×1	680	1200	75	1	13	26	17	13	4	—	16	20	3.4	MRB 0601 **
MRB 0601K	6	1	0.8	6.20	2° 56'	5.3	1×3	560	950	55	2	11	23	14.5	11	3.5	—	15	17	3.4	MRB 0601K
MRB 0602	6	2	1.0	6.20	5° 52'	5.1	2.7×1	750	1200	58	1	15	28	17	13	4	—	19	22	3.4	MRB 0602
MRB 0606	6	6	1.0	6.30	16° 52'	5.2	1.6×2	870	1450	67	3	14	27	17	8	4	—	16	21	3.4	MRB 0606
MRB 0610	6	10	1.2	6.30	26° 48'	5.0	1.2×2	950	1600	50	3	14	27	23	11.5	4	—	16	21	3.4	MRB 0610

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.

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.

For Axial load condition other than the above, see the formula in p-A823, you can calculate Rigidity using this formula.

Note 5) Stainless Rolled Ball Screw

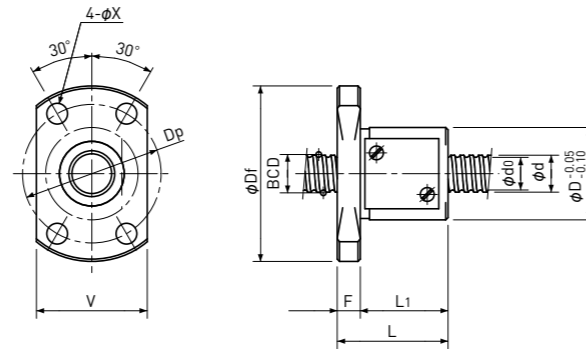
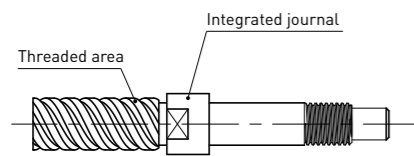
Stainless Rolled Ball Screw is available for Ball Nut Model Number marked **.

Rolled Ball Screws

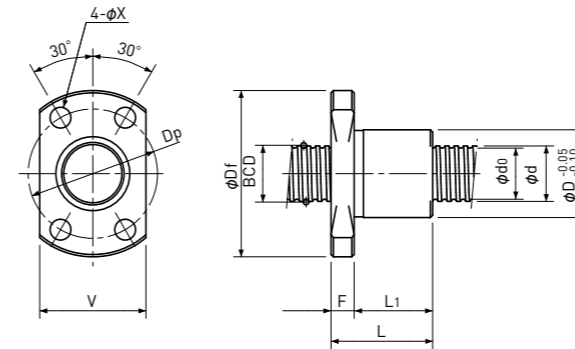
Single Nut with Flange

Backlash type

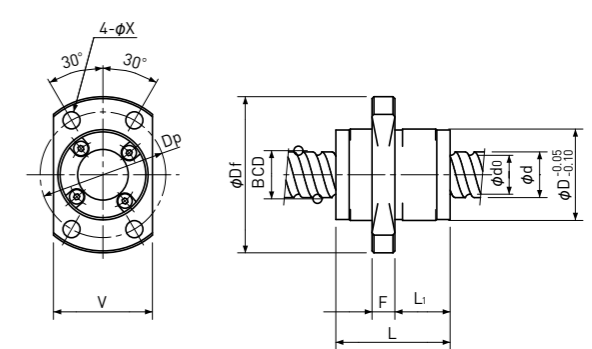
■ Rolled Ball Screws with integrated journal are available ($\phi 12$ or less only), which have larger diameter than threaded area shown below.



Type-1:Return-plate type



Type-2:Internal-deflector type or End-deflector type



Type-3:End-cap type or End-deflector 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/ μ m	Nut dimension										Ball Nut Model number
								Dynamic Ca	Static Coa		Nut type	D	Df	L	L ₁	F	W	V	Dp	Bolt Hole X	
MRB 0801 **	8	1	0.8	8.15	2° 15'	7.3	3.7×1	780	1650	95	1	16	29	17	13	4	—	18	23	3.4	MRB 0801 **
MRB 0801K	8	1	0.8	8.20	2° 13'	7.3	1×3	650	1300	70	2	13	26	15	11	4	—	17	20	3.4	MRB 0801K
MRB 0802 **	8	2	1.5875	8.30	4° 23'	6.6	3.7×1	2400	4100	111	1	20	37	24	19	5	—	22	29	4.5	MRB 0802 **
MRB 0802K	8	2	1.2	8.30	4° 23'	7.0	1×3	1300	2300	77	2	15	28	18	14	4	—	19	22	3.4	MRB 0802K
MRB 0802.5	8	2.5	1.5875	8.00	5° 41'	6.3	2.7×1	1850	3000	80	2	16	29	16	12	4	—	18	23	3.4	MRB 0802.5
MRB 0805	8	5	1.5875	8.30	10° 51'	6.6	2.7×1	1850	3000	82	1	18	31	28	24	4	—	20	25	3.4	MRB 0805
MRB 0808	8	8	1.5875	8.40	16° 52'	6.7	1.6×2	2200	3800	95	3	18	31	20	10	4	—	20	25	3.4	MRB 0808
MRB 0810	8	10	1.5875	8.40	20° 45'	6.7	1.6×2	2200	3800	92	3	18	31	24	13	4	—	20	25	3.4	MRB 0810
MRB 0812	8	12	1.5875	8.40	24° 27'	6.7	1.6×2	2200	4000	90	3	18	31	27	17	4	—	20	25	3.4	MRB 0812

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.

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.

For Axial load condition other than the above, see the formula in p-A823, you can calculate Rigidity using this formula.

Note 5) Stainless Rolled Ball Screw

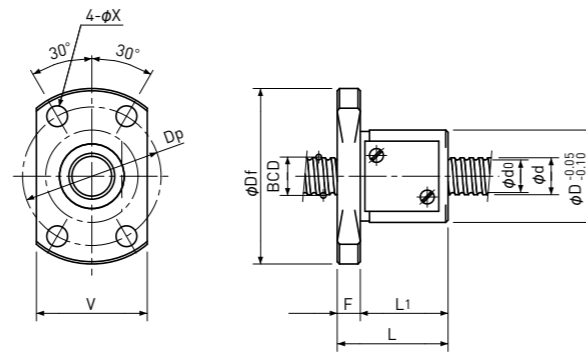
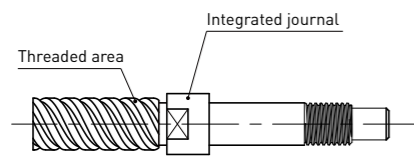
Stainless Rolled Ball Screw is available for Ball Nut Model Number marked **.

Rolled Ball Screws

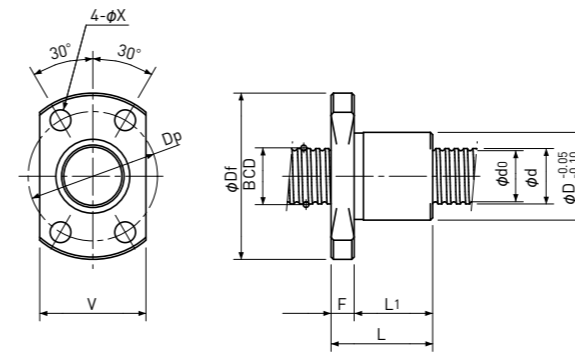
Single Nut with Flange

Backlash type

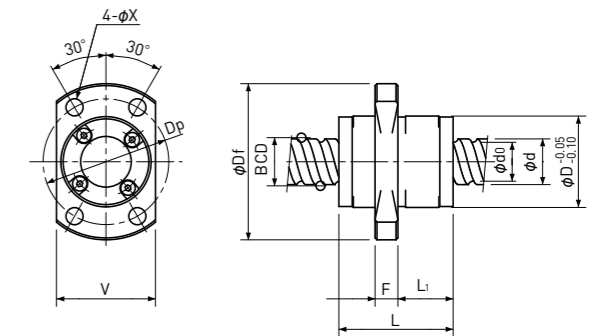
■ Rolled Ball Screws with integrated journal are available ($\phi 12$ or less only), which have larger diameter than threaded area shown below.



Type-1:Return-plate type



Type-2:Internal-deflector type or End-deflector type



Type-3:End-cap type or End-deflector 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/ μ m	Nut dimension										Ball Nut Model number
								Dynamic Ca	Static Coa		Nut type	D	Df	L	L ₁	F	W	V	Dp	Bolt Hole X	
MRB 1002 **	10	2	1.5875	10.30	3°32'	8.6	3.7×1	2700	5300	134	1	23	40	24	19	5	—	25	32	4.5	MRB 1002 **
MRB 1002K	10	2	1.2	10.30	3°32'	9.0	1×3	1450	3000	93	2	17	34	19	14	5	—	21	26	4.5	MRB 1002K
MRB 1003	10	3	2.0	10.30	5°18'	8.2	3.7×1	3900	7200	140	1	24	41	29	24	5	—	26	33	4.5	MRB 1003
MRB 1004	10	4	2.0	10.30	7°03'	8.2	2.7×1	3000	5200	104	1	24	41	28	23	5	—	26	33	4.5	MRB 1004
MRB 1005	10	5	2.0	10.30	8°47'	8.2	2.7×1	3000	5200	103	2	23	40	26	21	5	—	25	32	4.5	MRB 1005
MRB 1006	10	6	2.0	10.30	10°30'	8.2	2.7×1	3000	5000	102	1	26	42	33	28	5	—	28	34	4.5	MRB 1006
MRB 1010	10	10	2.0	10.50	16°52'	8.4	1.6×2	3300	5900	117	3	23	40	24	13	5	—	25	32	4.5	MRB 1010
MRB 1012	10	12	2.0	10.50	19°59'	8.4	1.6×2	3300	6200	115	3	23	40	28	17	5	—	25	32	4.5	MRB 1012
MRB 1015	10	15	2.0	10.50	24°27'	8.4	1.6×2	3300	6400	110	3	23	40	33	22	5	—	25	32	4.5	MRB 1015
MRB 1020	10	20	1.5875	10.40	31°28'	8.7	0.7×4	2100	4000	88	3	20	37	23	13	5	—	22	29	4.5	MRB 1020
MRB 1202	12	2	1.5875	12.30	2°58'	10.6	3.7×1	3000	6400	156	1	25	42	24	19	5	—	27	34	4.5	MRB 1202
MRB 1202K	12	2	1.2	12.30	2°58'	11.0	1×3	1600	3700	109	2	19	36	19	14	5	—	23	28	4.5	MRB 1202K
MRB 1210	12	10	2.381	12.65	14°07'	10.2	1.7×2	5100	9800	152	3	24	41	30	14.5	6	—	26	33	4.5	MRB 1210

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.

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.

For Axial load condition other than the above, see the formula in p-A823, you can calculate Rigidity using this formula.

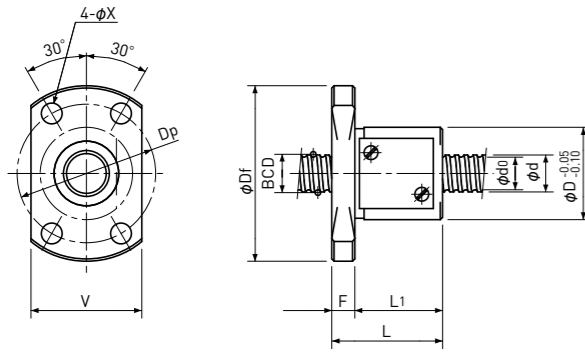
Note 5) Stainless Rolled Ball Screw

Stainless Rolled Ball Screw is available for Ball Nut Model Number marked **.

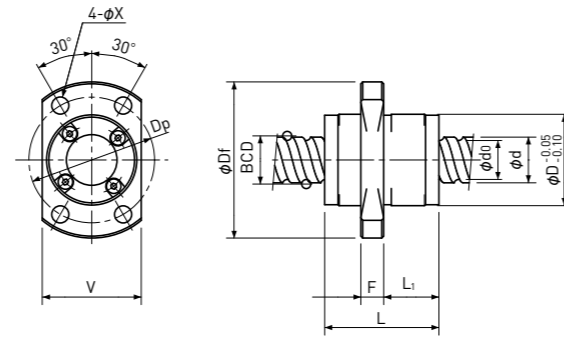
Rolled Ball Screws

Single Nut with Flange

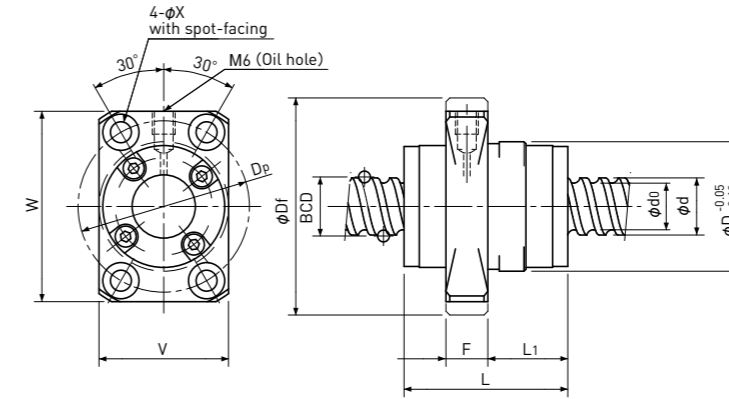
Backlash type



Type-1:Return-plate type



Type-3:End-cap type or End-deflector type



Type-4:End-deflector 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		Nut type	D	Df	L	L ₁	F	W	V	Dp	Bolt Hole X	
MRB 1312	13	12	2.381	13.50	15°48'	11.0	1.6×2	5000	9900	151	3	28	45	30	17	5	—	30	37	4.5	MRB 1312
MRB 1315	13	15	2.381	13.50	19°29'	11.0	1.6×2	5000	10300	147	3	28	45	35	22	5	—	30	37	4.5	MRB 1315
MRB 1320	13	20	2.381	13.50	25°15'	11.0	1.6×2	5000	10700	142	3	28	45	43	29	5	—	30	37	4.5	MRB 1320
MRB 1402	14	2	1.5875	14.30	2°33'	12.6	3.7×1	3200	7500	176	1	26	45	25	19	6	—	28	36	5.5	MRB 1402
MRB 1404	14	4	2.381	14.30	5°05'	11.8	3.7×1	5700	11600	187	1	30	49	33	27	6	—	32	40	5.5	MRB 1404
MRB 1505	15	5	3.175	15.50	5°41'	12.2	3.7×1	8900	17000	208	4	34	57	33	16	11	50	34	45	5.5	MRB 1505
MRB 1510	15	10	3.175	15.50	11°36'	12.2	2.7×2	12000	25000	289	4	34	57	43	21	11	50	34	45	5.5	MRB 1510
MRB 1520	15	20	3.175	15.75	22°01'	12.7	1.7×2	8000	16000	178	4	34	57	52	28.5	11	50	34	45	5.5	MRB 1520

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.

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.

For Axial load condition other than the above, see the formula in p-A823, you can calculate Rigidity using this formula.

Note 5) Stainless Rolled Ball Screw

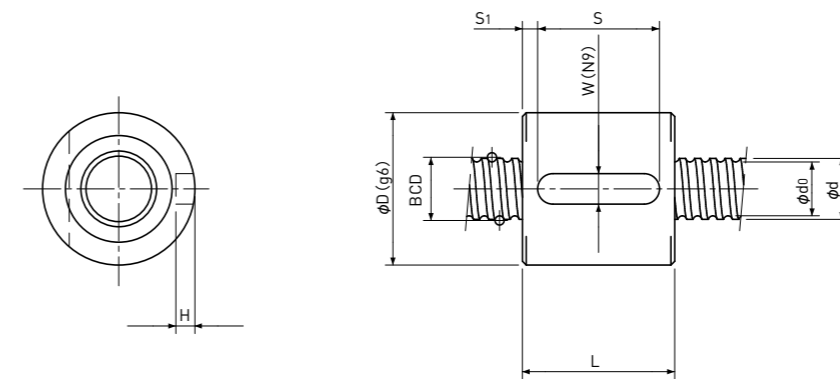
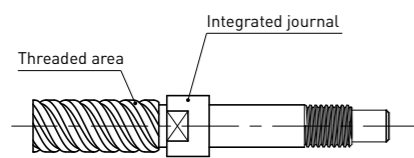
Stainless Rolled Ball Screw is available for Ball Nut Model Number marked **.

Rolled Ball Screws

Sleeve type Single Nut

Backlash type

- Rolled Ball Screws with integrated journal are available ($\phi 12$ or less only), which have larger diameter than threaded area shown below.



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 $N/\mu m$	Nut dimension						Ball Nut Model number
								Dynamic C_a	Static C_oa		D	L	W	H	S	S_1	
BSR 0401	4	1	0.8	4.15	4° 23'	3.3	3.7x1	560	790	54	11	14	3	1.8	8	3	BSR 0401
BSR 0402	4	2	0.8	4.15	8° 43'	3.3	2.7x1	420	570	39	11	16	3	1.8	8	4	BSR 0402
BSR 0504	5	4	0.8	5.15	13° 53'	4.3	2.7x1	470	720	47	12	22	3	1.8	12	5	BSR 0504
BSR 0601 **	6	1	0.8	6.15	2° 58'	5.3	3.7x1	680	1200	75	13	14	3	1.8	10	2	BSR 0601 **
BSR 0602	6	2	1.0	6.20	5° 52'	5.1	2.7x1	750	1200	58	15	15	3	1.8	10	2.5	BSR 0602
BSR 0801 **	8	1	0.8	8.15	2° 15'	7.3	3.7x1	780	1650	95	16	14	3	1.8	10	2	BSR 0801 **
BSR 0802 **	8	2	1.5875	8.30	4° 23'	6.6	3.7x1	2400	4100	111	20	20	4	2.5	16	2	BSR 0802 **
BSR 0802.5	8	2.5	1.5875	8.00	5° 41'	6.3	2.7x1	1850	3000	80	16	16	3	1.8	8	4	BSR 0802.5
BSR 0805	8	5	1.5875	8.30	10° 51'	6.6	2.7x1	1850	3000	82	18	28	4	2.5	20	4	BSR 0805

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.

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 C_a .

For Axial load condition other than the above, see the formula in p-A823, you can calculate Rigidity using this formula.

Note 5) Stainless Rolled Ball Screw

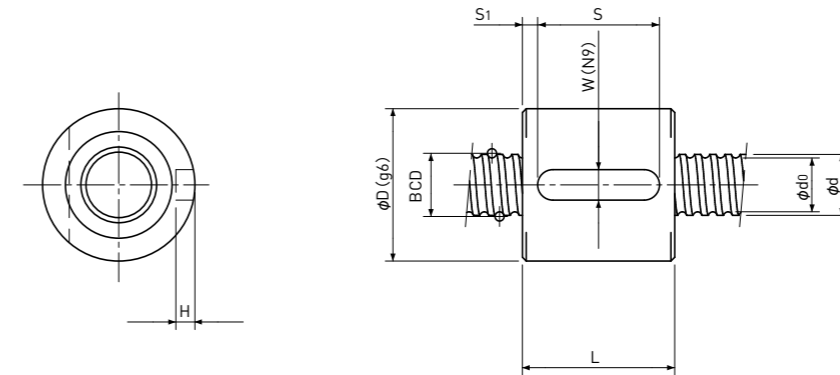
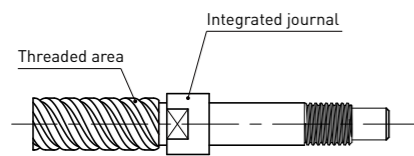
Stainless Rolled Ball Screw is available for Ball Nut Model Number marked **.

Rolled Ball Screws

Sleeve type Single Nut

Backlash type

- Rolled Ball Screws with integrated journal are available ($\phi 12$ or less only), which have larger diameter than threaded area shown below.



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/ μ m	Nut dimension						Ball Nut Model number
								Dynamic C_a	Static C_oa		D	L	W	H	S	S_1	
BSR 1002 **	10	2	1.5875	10.30	3°32'	8.6	3.7x1	2700	5300	134	23	20	5	3	16	2.0	BSR 1002 **
BSR 1003	10	3	2.0	10.30	5°18'	8.2	3.7x1	3900	7200	140	24	26	5	3	20	3	BSR 1003
BSR 1004	10	4	2.0	10.30	7°03'	8.2	2.7x1	3000	5200	104	24	26	5	3	20	3	BSR 1004
BSR 1005	10	5	2.0	10.30	8°47'	8.2	2.7x1	3000	5200	103	23	26	5	3	16	5	BSR 1005
BSR 1006	10	6	2.0	10.30	10°30'	8.2	2.7x1	3000	5000	102	26	31	5	3	20	5.5	BSR 1006
BSR 1202	12	2	1.5875	12.30	2°58'	10.6	3.7x1	3000	6400	156	25	20	5	3	16	2	BSR1202
BSR 1402	14	2	1.5875	14.30	2°33'	12.6	3.7x1	3200	7500	176	26	20	5	3	16	2	BSR 1402
BSR 1404	14	4	2.381	14.30	5°05'	11.8	3.7x1	5700	11600	187	30	31	5	3	25	3	BSR 1404

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.

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 C_a .

For Axial load condition other than the above, see the formula in p-A823, you can calculate Rigidity using this formula.

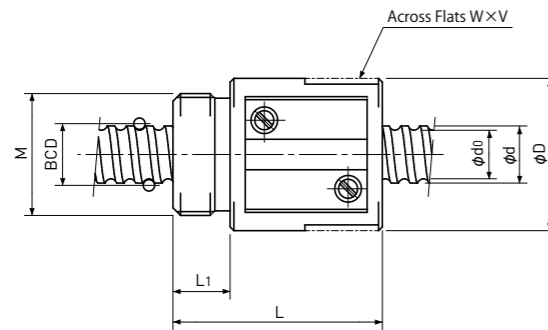
Note 5) Stainless Rolled Ball Screw

Stainless Rolled Ball Screw is available for Ball Nut Model Number marked **.

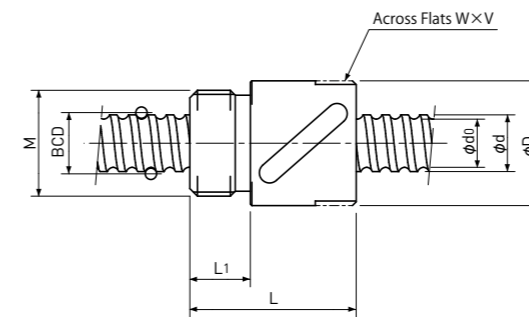
Rolled Ball Screws

Single Nut with M-thread

Backlash type

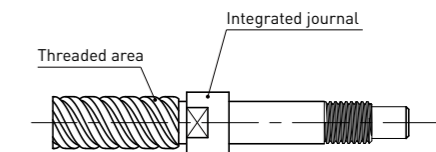


Type-1: Return-plate type



Type-2: Return-tube type

■ Rolled Ball Screws with integrated journal are available ($\phi 12$ or less only), which have larger diameter than threaded area shown below.



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/ μ m	Nut dimension						Ball Nut Model number	
								Dynamic C_a	Static C_{0a}		Nut type	D	L	L_1	Across Flats width W	Across Flats length V		M
MSR 0401 B	4	1	0.8	4.15	4° 23'	3.3	3.7x1	560	790	54	1	11	17	4	10	6	M9x0.75	MSR 0401 B
MSR 0802 B **	8	2	1.5875	8.30	4° 23'	6.6	3.7x1	2400	4100	111	1	20	27.5	7.5	18	5	M16x1.0	MSR 0802 B **
MSR 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	14	4	M14x1.0	MSR 0802.5 T(1)
MSR 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	15	4	M15x1.0	MSR 0802.5 T(2)
MSR 0805 A	8	5	1.5875	8.30	10° 51'	6.6	2.7x1	1850	3000	82	1	18	32.5	7.5	16	5	M15x1.0	MSR 0805 A
MSR 1002 B **	10	2	1.5875	10.30	3° 32'	8.6	3.7x1	2700	5300	134	1	23	27.5	7.5	21	5	M17x1.0	MSR 1002 B **
MSR 1003 B	10	3	2.0	10.30	5° 18'	8.2	3.7x1	3900	7200	140	1	24	32	8	22	5	M18x1.0	MSR 1003 B
MSR 1202 B	12	2	1.5875	12.30	2° 58'	10.6	3.7x1	3000	6400	156	1	25	30	10	23	5	M20x1.0	MSR 1202 B
MSR 1402 B	14	2	1.5875	14.30	2° 33'	12.6	3.7x1	3200	7500	176	1	26	30	10	23	5	M22x1.5	MSR 1402 B
MSR 1404 B	14	4	2.381	14.30	5° 05'	11.8	3.7x1	5700	11600	187	1	30	38	10	27	8	M25x1.0	MSR 1404 B

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.

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 C_a .

For Axial load condition other than the above, see the formula in p-A823, you can calculate Rigidity using this formula.

Note 5) Stainless Rolled Ball Screw

Stainless Rolled Ball Screw is available for Ball Nut Model Number marked **.