



Unit: mm

Ball nut No	Shaft dia. d	Lead l	Ball dia. D_n	Ball circle dia. d_n	Root dia. d	Effective turns of balls Turns × Circuits	Basic load rating				Axial play Max.
							(N)		(kgf)		
							Dynamic C_d	Static C_{0a}	Dynamic C_d	Static C_{0a}	
RNCT 1003A3.5	10	3	2.381	10.65	8.0	3.5 × 1	3780	6730	385	685	0.10
RNCT 1404A3.5S	14	4	2.778	14.5	11.5	3.5 × 1	5370	10800	545	1100	0.10
RNCT 1405A2.5S	14	5	3.175	14.5	11.0	2.5 × 1	5260	9720	535	990	0.10
RNCT 1808A3.5	18	8	4.762	18.5	13.6	3.5 × 1	13200	25800	1350	2630	0.15
RNCT 1808A3.5S											
RNCT 2005A2.5	20	5	3.175	20.5	17.0	2.5 × 1	6360	14200	650	1450	0.10
RNCT 2005A2.5S											
RNCT 2505A5	25	5	3.175	25.5	22.0	2.5 × 2	12800	36300	1310	3710	0.10
RNCT 2505A5S											
RNCT 2510A5	25	10	6.35	26	19.0	2.5 × 2	31800	70300	3240	7170	0.20
RNCT 2510A5S											
RNCT 2806A5	28	6	3.175	28.5	25.0	2.5 × 2	13500	40600	1380	4140	0.10
RNCT 2806A5S											
RNCT 3210A5	32	10	6.35	33.75	27.0	2.5 × 2	35700	92200	3640	9410	0.20
RNCT 3210A5S											
RNCT 3610A5	36	10	6.35	37	30.0	2.5 × 2	38100	102000	3890	10400	0.20
RNCT 3610A5S											
RNCT 4010A7	40	10	6.35	41.75	35.0	3.5 × 2	53500	164000	5460	16800	0.20
RNCT 4010A7S											
RNCT 4512A5	45	12	7.144	46.5	39.0	2.5 × 2	49600	147000	5060	15000	0.23
RNCT 4512A5S											
RNCT 5010A7	50	10	6.35	51.75	45.0	3.5 × 2	59500	205000	6060	21000	0.20
RNCT 5010A7S											
RNCT 5016A5	50	16	9.525	52	42.0	2.5 × 2	99900	293000	10200	29900	0.23
RNCT 5016A5S											

Outside dia. D	Ball nut dimensions						Seal dimensions		Arbor		Screw shaft			Screw shaft No.
	Flange		Length L_s	Projecting tube			Diameter S	Thickness T	Outside dia. d_o	Bore d_i	Standard length L_s			
	M	B		L_s	U	V					R	400	800	
20	M18 × 1	10	38	15	15	7			8.1	6.1	400	800	RS1003A**	
25	M24 × 1	10	43	19	20	7			11.5	9.5	500	1000	RS1404A**	
30	M26 × 1.5	10	45	22	21	8			11.0	9.0	500	1000	RS1405A**	
34	M32 × 1.5	12	58	27	27	14	28.5	2.5	13.6	11.6	500	1000	1500	RS1808A**
40	M36 × 1.5	12	48	28	27	10	29.5	2.5	17.0	14.6	500	1000	2000	RS2005A**
42	M40 × 1.5	15	69	28	31	10	34.5	2.5	22.0	19.6	1000	2000	2500	RS2505A**
44	M42 × 1.5	15	92	34	37	17	38.5	2.5	19.0	16.6	1000	2000	2500	RS2510A**
50	M45 × 1.5	15	79	33	34	10	37.5	2.5	25.0	22.6	1000	2000	2500	RS2806A**
55	M50 × 1.5	18	97	39	42	17	45.5	2.5	27.0	24.6	1000	2000	3000	RS3210A**
60	M55 × 2	18	98	42	46	17	50.5	3.0	30.0	27.6	1000	2000	3000	RS3610A**
65	M60 × 2	25	125	44	50	20	54.5	3.0	35.0	31.8	2000	3000	4000	RS4010A**
70	M65 × 2	30	124	47	55	20	60.5	3.0	39.0	35.8	2000	3000	4000	RS4512A**
80	M75 × 2	40	140	52	59	20	64.5	3.0	45.0	41.8	2000	3000	4000	RS5010A**
85	M80 × 2	40	158	57	63	25	68.5	3.0	42.0	38.8	2000	3000	4000	RS5016A**

- Remarks
1. Protruding portion of the tube does not have any interference with the ball nut housing if its dimensions corresponding to U and V are large enough.
 2. The actual entire screw shaft length may become slightly longer than nominal length L_s due to manufacturing tolerance.
 3. A seal cannot be installed in the V thread side. It may be installed in the opposite side.
Seal is contained in the nut. Therefore, the external dimensions of those with a seal are the same as those without. In the side view drawing of ball nut, the above of the center line is with seal, and beneath is without seal.

- Seal for those with the shaft diameter of 14 mm or less is made of synthetic resin. Seal for those of 16 mm or over is a "Brush-seal."
- There is no seal on the V-thread side for RNCT1404A3.5S and RNCT1405A2.5S
4. Nut assembly with arbor and the screw shaft are separated at time of delivery.
 5. At the end of the screw shaft reference number where marked with "**", fill with the value obtained by dividing the standard screw shaft length by 100 mm.
 6. Items in stock are not applied surface treatment. NSK provides treatment such as phosphate coating on request.