



Unit: mm

Ball nut No	Shaft dia. <i>d</i>	Lead <i>l</i>	Ball dia. <i>D<sub>b</sub></i>	Ball circle dia. <i>d<sub>m</sub></i>	Root dia. <i>d<sub>r</sub></i>	Effective turns of balls × Circuits	Basic load rating (N)		Axial play Max.	Ball nut dimensions	
							Dynamic <i>C<sub>a</sub></i>	Static <i>C<sub>0a</sub></i>		Outside dia. <i>D</i>	<i>D</i>
<b>RNCT 1003A3.5</b>	10	3	2.381	10.65	8.1	3.5 × 1	3780	6730	0.10	20	
<b>RNCT 1404A3.5S</b>	14	4	2.778	14.5	11.5	3.5 × 1	5370	10800	0.10	25	
<b>RNCT 1405A2.5S</b>	14	5	3.175	14.5	11.0	2.5 × 1	5260	9720	0.10	30	
<b>RNCT 1808A3.5</b>	18	8	4.762	18.5	13.6	3.5 × 1	13200	25800	0.15	34	
<b>RNCT 1808A3.5S</b>											
<b>RNCT 2005A2.5</b>	20	5	3.175	20.5	17.0	2.5 × 1	6360	14200	0.10	40	
<b>RNCT 2005A2.5S</b>											
<b>RNCT 2505A5</b>	25	5	3.175	25.5	22.0	2.5 × 2	12800	36300	0.10	42	
<b>RNCT 2505A5S</b>											
<b>RNCT 2510A5</b>	25	10	6.35	26	19.0	2.5 × 2	31800	70300	0.20	44	
<b>RNCT 2510A5S</b>											
<b>RNCT 2806A5</b>	28	6	3.175	28.5	25.0	2.5 × 2	13500	40600	0.10	50	
<b>RNCT 2806A5S</b>											
<b>RNCT 3210A5</b>	32	10	6.35	33.75	27.0	2.5 × 2	35700	92200	0.20	55	
<b>RNCT 3210A5S</b>											
<b>RNCT 3610A5</b>	36	10	6.35	37	30.0	2.5 × 2	38100	102000	0.20	60	
<b>RNCT 3610A5S</b>											
<b>RNCT 4010A7</b>	40	10	6.35	41.75	35.0	3.5 × 2	53500	164000	0.20	65	
<b>RNCT 4010A7S</b>											
<b>RNCT 4512A5</b>	45	12	7.144	46.5	39.0	2.5 × 2	49600	147000	0.23	70	
<b>RNCT 4512A5S</b>											
<b>RNCT 5010A7</b>	50	10	6.35	51.75	45.0	3.5 × 2	59500	205000	0.20	80	
<b>RNCT 5010A7S</b>											
<b>RNCT 5016A5</b>	50	16	9.525	52	42.0	2.5 × 2	99900	293000	0.23	85	
<b>RNCT 5016A5S</b>											

Ball nut dimensions						Nut Mass (kg)	Seal dimensions		Arbor		Screw shaft		Shaft mass/m (kg)		
Flange		Length		Projecting tube			Diameter	Thickness	Outside dia.	Bore	Standard length			Screw shaft No.	
<i>M</i>	<i>B</i>	<i>L<sub>n</sub></i>	<i>U</i>	<i>V</i>	<i>R</i>	<i>S</i>	<i>T</i>	<i>d<sub>0</sub></i>	<i>d<sub>1</sub></i>	<i>L<sub>s</sub></i>					
M18 × 1	10	38	15	15	7	0.049		8.1	6.1	400	800	RS1003A**	0.50		
M24 × 1	10	43	19	20	7	0.083		11.5	9.5	500	1000	RS1404A**	1.02		
M26 × 1.5	10	45	22	21	8	0.15		11.0	9.0	500	1000	RS1405A**	1.00		
M32 × 1.5	12	58	27	27	8	0.21	28.5	2.5	13.6	11.6	500	1000	1500	RS1808A**	1.60
M36 × 1.5	12	48	28	27	10	0.28	29.5	2.5	17.0	14.6	500	1000	2000	RS2005A**	2.17
M40 × 1.5	15	69	28	31	10	0.38	34.5	2.5	22.0	19.6	1000	2000	2500	RS2505A**	3.47
M42 × 1.5	15	92	34	37	17	0.49	38.5	2.5	19.0	16.6	1000	2000	2500	RS2510A**	3.13
M45 × 1.5	15	79	33	34	10	0.68	37.5	2.5	25.0	22.6	1000	2000	2500	RS2806A**	4.47
M50 × 1.5	18	97	39	42	17	0.79	45.5	2.5	27.0	24.6	1000	2000	3000	RS3210A**	5.53
M55 × 2	18	98	42	46	17	0.97	50.5	3.0	30.0	27.6	1000	2000	3000	RS3610A**	6.91
M60 × 2	25	125	44	50	20	1.37	54.5	3.0	35.0	31.8	2000	3000	4000	RS4010A**	8.87
M65 × 2	30	124	47	55	20	1.42	60.5	3.0	39.0	35.8	2000	3000	4000	RS4512A**	11.16
M75 × 2	40	140	52	59	20	2.41	64.5	3.0	45.0	41.8	2000	3000	4000	RS5010A**	14.15
M80 × 2	40	158	57	63	25	3.14	68.5	3.0	42.0	38.8	2000	3000	4000	RS5016A**	13.48

- 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<sub>s</sub> 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 provided 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.

1. 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."
2. There is no seal on the V-thread side for RNCT1404A3.5S and RNCT1405A2.5S.
3. Nut assembly with arbor and the screw shaft are separated at time of delivery.
4. 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.
5. Items in stock are not applied surface treatment.