



Ball nut No.	Shaft dia. <i>d</i>	Lead <i>l</i>	Ball dia. <i>D_m</i>	Ball circle dia. <i>d_m</i>	Root dia. <i>d_r</i>	Effective turns of balls Turns × Circuits	Basic load rating (N)		Axial play Max.	Ball nut dimensions Outside dia. <i>D</i>
							Dynamic <i>C_a</i>	Static <i>C_{0n}</i>		
							RNFTL 1003A3.5	10		
RNFTL 1006A2.5S	10	6	2.381	10.65	8.1	2.5×1	2830	4810	0.10	20
RNFTL 1208A2.5S	12	8	2.778	12.65	9.6	2.5×1	3730	6560	0.10	25
RNFTL 1404A3.5S	14	4	2.778	14.5	11.5	3.5×1	5370	10800	0.10	25
RNFTL 1405A2.5S	14	5	3.175	14.5	11.0	2.5×1	5260	9720	0.10	30
RNFTL 1610A2.5	16	10	3.175	16.75	13.3	2.5×1	5660	11500	0.10	30
RNFTL 1610A2.5S	16	10	3.175	16.75	13.3	2.5×1	5660	11500	0.10	30
RNFTL 1808A3.5	18	8	4.762	18.5	13.6	3.5×1	13200	25800	0.15	34
RNFTL 1808A3.5S	18	8	4.762	18.5	13.6	3.5×1	13200	25800	0.15	34
RNFTL 2005A2.5	20	5	3.175	20.5	17.0	2.5×1	6360	14200	0.10	40
RNFTL 2005A2.5S	20	5	3.175	20.5	17.0	2.5×1	6360	14200	0.10	40
RNFTL 2010A2.5	20	10	4.762	21.25	16.2	2.5×1	10900	21800	0.15	40
RNFTL 2010A2.5S	20	10	4.762	21.25	16.2	2.5×1	10900	21800	0.15	40
RNFTL 2505A5	25	5	3.175	25.5	22.0	2.5×2	12800	36300	0.10	42
RNFTL 2505A5S	25	5	3.175	25.5	22.0	2.5×2	12800	36300	0.10	42
RNFTL 2510A2.5	25	10	6.35	26	19.0	2.5×1	17500	35200	0.20	44
RNFTL 2510A2.5S						2.5×1	17500	35200		
RNFTL 2510A5						2.5×2	31800	70300		
RNFTL 2510A5S						2.5×2	31800	70300		

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. Seal are provided in the nut. Therefore, the external dimensions of those with the seals 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."

Unit: mm

Ball nut dimensions											Nut Mass. (kg)	Arbor		Screw shaft			Shaft mass/m (kg)	
Flange		Length	Bolt hole		Oil hole	Projecting tube			Outside dia. <i>d_o</i>	Bore <i>d_i</i>		Standard length		Screw shaft				
<i>A</i>	<i>G</i>		<i>B</i>	<i>L_n</i>		<i>W</i>	<i>X</i>	<i>U</i>				<i>V</i>	<i>R</i>	<i>L_s</i>	<i>L_s</i>	No.		
40	15	6	34	30	4.5	M3×0.5	3.0	15	15	7	0.092	8.1	6.1	400	800	RS1003A**	0.50	
40	15	6	36	30	4.5	M3×0.5	3.5	15	15	5	0.095	8.1	6.1	400	800	RS1006A**	0.56	
45	19	8	46	35	4.5	M3×0.5	5.5	19	18	7	0.18	9.6	7.6	400	800	RS1208A**	0.74	
50	19	10	43	40	4.5	M6×1	5.0	19	20	7	0.20	11.5	9.5	500	1000	RS1404A**	1.02	
50	22	10	45	40	4.5	M6×1	5.0	22	21	8	0.26	11.0	9.0	500	1000	RS1405A**	1.00	
53	23	10	54	41	5.5	M6×1	5.5	23	22.5	8	0.28	13.3	11.3	500	1000	1500	RS1610A**	1.37
63	27	12	58	49	6.6	M6×1	6.0	27	27	8	0.43	13.6	11.6	500	1000	1500	RS1808A**	1.60
60	28	10	46	50	4.5	M6×1	5.0	28	27	10	0.42	17.0	14.6	500	1000	2000	RS2005A**	2.17
67	30	12	59	53	6.6	M6×1	6.0	30	29	12	0.55	16.2	13.8	500	1000	2000	RS2010A**	2.18
71	28	12	66	57	6.6	M6×1	6.0	28	31	10	0.62	22.0	19.6	1000	2000	2500	RS2505A**	3.47
80	34	15	62	62	9	M6×1	7.5	34	37	17	0.75	19.0	16.6	1000	2000	2500	RS2510A**	3.13
80	34	15	92	62	9	M6×1	7.5	34	37	17								

Remarks 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.