

Ballscrews

Ground ballscrews

6.4.5 Cylindrical single nut RSI with single recirculation

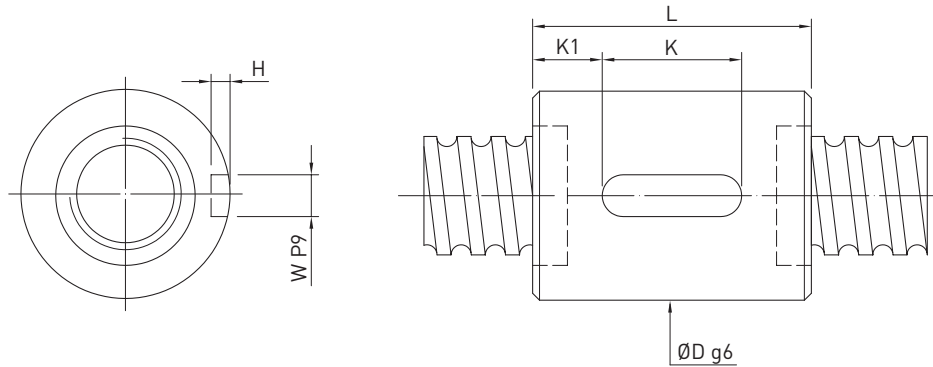


Table 6.8 Nut dimensions

Type	Size		Ball diameter	Circuits	Rigidity K [N/μm]	Dynamic load rating C_{dyn} [N]	Static load rating C_0 [N]	Nut		Feather key groove			
	Nominal Ø	Lead						D	L	K	W	H	K1
R16-2T4-RSI	16	2	1.500	4	150	1,780	3,950	25	25	20	3	1.8	2.5
R16-5T3-RSI	16	5	3.175	3	110	7,310	13,310	28	40	20	3	1.8	10.0
R16-5T4-RSI	16	5	3.175	4	120	9,360	17,750	28	46	20	3	1.8	13.0
R20-5T3-RSI	20	5	3.175	3	200	8,520	17,670	32	41	20	3	1.8	10.5
R20-5T4-RSI	20	5	3.175	4	270	10,910	23,560	32	48	20	3	1.8	14.0
R25-5T3-RSI	25	5	3.175	3	280	9,770	23,140	37	41	20	4	2.5	10.5
R25-5T4-RSI	25	5	3.175	4	370	12,520	30,850	37	48	20	4	2.5	14.0
R32-5T3-RSI	32	5	3.175	3	330	11,170	30,810	44	41	20	4	2.5	10.5
R32-5T4-RSI	32	5	3.175	4	420	14,310	41,080	44	48	20	4	2.5	14.0
R32-5T6-RSI	32	5	3.175	6	630	20,270	61,620	44	61	25	4	2.5	18.0
R32-10T3-RSI	32	10	6.350	3	350	25,390	53,270	51	68	25	6	3.5	21.5
R32-10T4-RSI	32	10	6.350	4	480	32,520	71,020	51	79	32	6	3.5	23.5
R40-5T4-RSI	40	5	3.175	4	500	15,990	52,800	51	48	20	4	2.5	14.0
R40-5T6-RSI	40	5	3.175	6	740	22,650	79,190	51	61	25	4	2.5	18.0
R40-10T3-RSI	40	10	6.350	3	400	29,590	70,690	60	68	25	6	3.5	21.5
R40-10T4-RSI	40	10	6.350	4	510	37,890	94,260	60	79	32	6	3.5	23.5
R50-5T4-RSI	50	5	3.175	4	620	17,570	67,450	62	48	20	4	2.5	14.0
R50-5T6-RSI	50	5	3.175	6	910	24,900	101,170	62	61	25	4	2.5	18.0
R50-10T3-RSI	50	10	6.350	3	500	33,970	92,560	69	68	32	6	3.5	18.0
R50-10T4-RSI	50	10	6.350	4	630	43,500	123,410	69	79	32	6	3.5	23.5
R50-10T6-RSI	50	10	6.350	6	940	61,650	185,110	69	102	40	6	3.5	31.0
R63-6T4-RSI	63	6	3.969	4	750	26,740	105,420	78	56	25	6	3.5	15.5
R63-6T6-RSI	63	6	3.969	6	1,130	37,040	158,130	78	70	32	6	3.5	19.0
R80-10T4-RSI	80	10	6.350	4	960	55,590	211,180	99	79	32	8	4.0	23.5
R80-10T6-RSI	80	10	6.350	6	1,400	78,790	316,770	99	102	40	8	4.0	31.0
R80-20T3-RSI	80	20	9.525	3	950	96,630	316,220	108	126	50	10	5.0	38.0
R80-20T4-RSI	80	20	9.525	4	1,250	123,750	421,620	108	149	63	10	5.0	43.0
R100-20T4-RSI	100	20	9.525	4	1,550	135,690	531,610	125	149	63	10	5.0	43.0

All dimensions stated without a unit are in mm

- The rigidity values stated are determined by calculation without preload for loading of 30 % of the dynamic load rating
- Deviating nut dimensions on request
- Other diameters and leads on request

Order example:

R	32	10	T4	RSI	1500	1615	0.012
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