

Ballscrews

Ground ballscrews

6.4.3 Flange single nut FSI with single recirculation

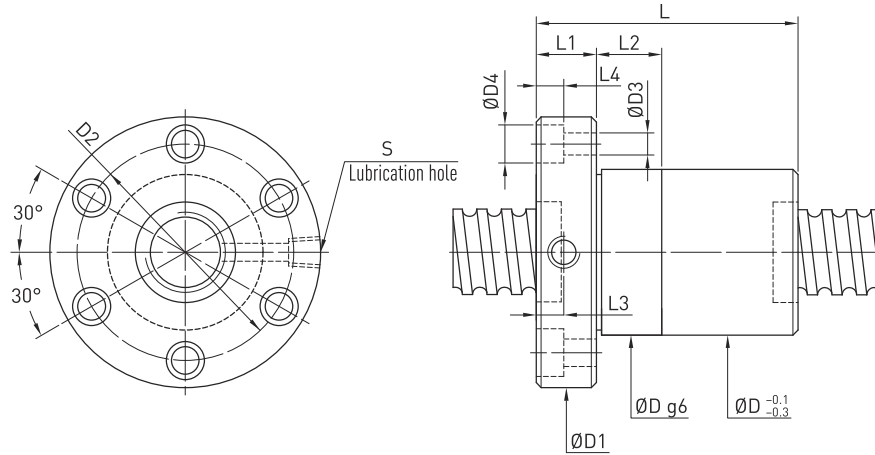


Table 6.6 Nut dimensions

Article number	ds	P	Ball diameter	D min.	D1	D2	D3	D4	L	L1	L2	L3	L4	S	dk	Rigidity [N/μm]	Dynamic load rating C_{dyn} [N]	Static load rating C_0 [N]	Mass [kg]
R8-2.5T3-FSI	8	2.5	1.500	18	35	27	4.5	—	28	5	—	—	—	—	6.65	80	1,700	2,670	0.04
R16-2T3-FSI	16	2.0	1.500	27	44	34	4.5	8.0	36	10	—	5.0	4.5	M6	14.65	140	2,520	5,930	0.17
R16-5T3-FSI	16	5.0	3.175	30	54	41	5.5	9.5	46	12	12	6.0	5.5	M6	13.32	110	7,310	13,310	0.32
R16-5T4-FSI	16	5.0	3.175	30	54	41	5.5	9.5	52	12	12	6.0	5.5	M6	13.32	120	9,360	17,750	0.34
R20-2T4-FSI	20	2.0	1.500	32	52	40	5.5	9.5	40	10	12	5.0	5.5	M6	18.65	360	3,990	11,120	0.25
R20-2T6-FSI	20	2.0	1.500	32	52	40	5.5	9.5	52	10	12	5.0	5.5	M6	18.65	320	5,180	15,510	0.29
R20-5T3-FSI	20	5.0	3.175	34	57	45	5.5	9.5	46	12	12	6.0	5.5	M6	17.32	200	8,520	17,670	0.35
R20-5T4-FSI	20	5.0	3.175	34	57	45	5.5	9.5	53	12	12	6.0	5.5	M6	17.32	270	10,910	23,560	0.38
R25-2T3-FSI	25	2.0	1.500	36	58	46	5.5	9.5	35	10	12	5.0	5.5	M6	23.65	200	3,090	9,800	0.24
R25-2T4-FSI	25	2.0	1.500	36	58	46	5.5	9.5	40	10	12	5.0	5.5	M6	23.65	270	3,950	13,070	0.26
R25-2T6-FSI	25	2.0	1.500	36	58	46	5.5	9.5	50	10	12	5.0	5.5	M6	23.65	390	5,600	19,600	0.30
R25-5T3-FSI	25	5.0	3.175	40	64	51	5.5	9.5	46	11	10	5.5	5.5	M6	22.32	280	9,770	23,140	0.42
R25-5T4-FSI	25	5.0	3.175	40	64	51	5.5	9.5	51	11	10	5.5	5.5	M6	22.32	370	12,520	30,850	0.44
R25-5T5-FSI	25	5.0	3.175	40	63	51	5.5	9.5	56	11	10	5.5	5.5	M6	22.32	400	15,160	38,560	0.47
R25-5T6-FSI	25	5.0	3.175	40	63	51	5.5	9.5	65	11	10	5.5	5.5	M6	22.32	480	17,730	46,270	0.52
R25-10T3-FSI	25	10.0	4.763	45	69	55	6.6	11.0	65	15	12	7.5	6.5	M6	21.13	250	15,910	32,360	0.80
R25-10T4-FSI	25	10.0	4.763	45	69	55	6.6	11.0	80	15	12	7.5	6.5	M6	21.13	330	20,380	43,150	0.90
R32-5T3-FSI	32	5.0	3.175	44	74	60	6.6	11.0	46	12	12	6.0	6.5	M6	29.32	330	11,170	30,810	0.49
R32-5T4-FSI	32	5.0	3.175	44	74	60	6.6	11.0	53	12	12	6.0	6.5	M6	29.32	420	14,310	41,080	0.53
R32-5T6-FSI	32	5.0	3.175	44	74	60	6.6	11.0	66	12	12	6.0	6.5	M6	29.32	630	20,270	61,620	0.59
R32-10T3-FSI	32	10.0	6.350	51	82	68	6.6	11.0	72	16	12	8.0	6.5	M6	26.91	350	25,390	53,270	1.02
R32-10T4-FSI	32	10.0	6.350	51	82	68	6.6	11.0	83	16	12	8.0	6.5	M6	26.91	480	32,520	71,020	1.11
R40-5T4-FSI	40	5.0	3.175	51	80	66	6.6	11.0	53	16	12	8.0	6.5	M8 × 1	37.32	500	15,990	52,800	0.66
R40-5T6-FSI	40	5.0	3.175	51	80	66	6.6	11.0	66	16	12	8.0	6.5	M8 × 1	37.32	740	22,650	79,190	0.73
R40-10T3-FSI	40	10.0	6.350	60	96	80	9.0	14.0	76	16	15	8.0	8.5	M8 × 1	34.91	400	29,590	70,690	1.37
R40-10T4-FSI	40	10.0	6.350	60	96	80	9.0	14.0	87	16	15	8.0	8.5	M8 × 1	34.91	510	37,890	94,260	1.49
R50-5T4-FSI	50	5.0	3.175	62	96	80	9.0	14.0	57	16	15	8.0	8.5	M8 × 1	47.32	620	17,570	67,450	0.95
R50-5T6-FSI	50	5.0	3.175	62	96	80	9.0	14.0	70	16	15	8.0	8.5	M8 × 1	47.32	910	24,900	10,117	1.04
R50-10T3-FSI	50	10.0	6.350	69	114	92	11.0	17.5	78	18	20	9.0	11.0	M8 × 1	44.91	500	33,970	92,560	1.85
R50-10T4-FSI	50	10.0	6.350	69	114	92	11.0	17.5	89	18	20	9.0	11.0	M8 × 1	44.91	630	43,500	123,410	1.98
R50-10T6-FSI	50	10.0	6.350	69	114	92	11.0	17.5	112	18	20	9.0	11.0	M8 × 1	44.91	940	61,650	185,110	2.26
R50-20T4-FSI	50	20.0	9.525	75	129	105	14.0	20.0	186	28	30	14.0	13.0	M8 × 1	42.47	800	93,270	239,550	5.30

Table 6.6 Nut dimensions – continuation

Article number	ds	P	Ball diameter	D min.	D1	D2	D3	D4	L	L1	L2	L3	L4	S	dk	Rigidity [N/μm]	Dynamic load rating C_{dyn} [N]	Static load rating C_0 [N]	Mass [kg]
R63-10T4-FSI	63	10	6.350	82	134	110	14.0	20.0	91	20	20	10.0	13.0	M8 × 1	57.91	790	48,600	158,580	2.54
R63-10T6-FSI	63	10	6.350	82	134	110	14.0	20.0	114	20	20	10.0	13.0	M8 × 1	57.91	1,150	68,870	237,860	2.88
R80-10T4-FSI	80	10	6.350	99	152	127	14.0	20.0	91	20	20	10.0	13.0	M8 × 1	74.91	960	55,590	21,118	3.00
R80-10T6-FSI	80	10	6.350	99	152	127	14.0	20.0	114	20	20	10.0	13.0	M8 × 1	74.91	1,400	78,790	316,770	3.42
R80-20T3-FSI	80	20	9.525	108	174	143	18.0	26.0	138	24	25	12.0	17.5	M8 × 1	72.47	950	96,630	316,220	6.30
R80-20T4-FSI	80	20	9.525	108	174	143	18.0	26.0	161	24	25	12.0	17.5	M8 × 1	72.47	1,250	123,750	421,620	6.96
R100-20T4-FSI	100	20	9.525	135	194	163	18.0	26.0	161	24	30	12.0	17.5	M8 × 1	92.47	1,550	135,690	531,610	8.60

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	50	10	T4	FSI	2250	2325	0.023
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