

Table 4.3 Overview of nut shapes

Nut designation	Description
FSIDIN	Flange single nut with internal single recirculation
FSCDIN	Flange single nut with cassette recirculation
RSI	Cylindrical single nut with internal single return
RSIT	Cylindrical single nut with screw-in thread and internal single return

4.4 Nuts for rolled ballscrews

4.4.1 Flange single nut FSCDIN/FSIDIN

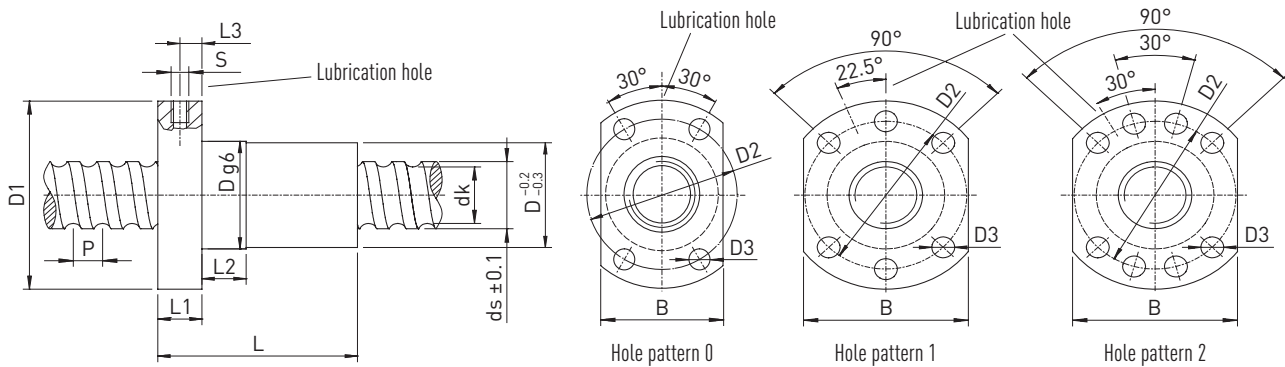


Table 4.4 Nut dimensions

Article number	ds	P	D	D1	D2	D3	Hole pattern	L	L1	L2	L3	S	B	dk	C _{dyn} [N]	C ₀ [N]	Max. axial play [mm]	Mass [kg/St.]
R12-05K4-FSCDIN	11.7	5	24	40	32	4.5	0	33	8	8	4	M3	26	9.9	5,500	12,000	0.02	0.11
R12-10K3-FSCDIN	11.8	10	24	40	32	4.5	0	43	8	8	4	M3	26	9.6	5,100	10,100	0.02	0.13
R15-05K4-FSCDIN	13.9	5	28	48	38	5.5	1	38	10	10	5	M6	40	11.8	12,600	21,000	0.04	0.18
R16-05T3-FSIDIN	15.5	5	28	48	38	5.5	1	40	10	10	5	M6	40	12.9	6,500	11,700	0.04	0.18
R16-10K3-FSCDIN	14.7	10	28	48	38	5.5	1	45	10	10	5	M6	40	12.5	9,100	19,300	0.04	0.20
R16-16K3-FSCDIN	15.0	16	28	48	38	5.5	1	61	12	20	6	M6	40	13.0	7,900	17,000	0.04	0.26
R16-20K2-FSCDIN	14.0	20	28	48	38	5.5	1	56	10	10	5	M6	40	11.8	5,200	10,400	0.04	0.25
R20-05K4-FSCDIN	19.6	5	36	58	47	6.6	1	40	10	10	5	M6	44	16.9	13,400	32,740	0.04	0.28
R20-10K3-FSCDIN	19.3	10	36	58	47	6.6	1	48	10	10	5	M6	44	16.6	10,000	23,500	0.04	0.32
R20-20K2-FSCDIN	19.7	20	36	58	47	6.6	1	57	10	10	5	M6	44	17.1	6,800	15,300	0.04	0.37
R20-20K4-DFSCDIN	19.7	20	36	58	47	6.6	1	57	10	10	5	M6	44	17.1	12,300	30,500	0.04	0.36
R25-05K4-FSCDIN	24.9	5	40	62	51	6.6	1	43	10	12	5	M6	48	22.3	14,900	41,500	0.04	0.22
R25-10K4-FSCDIN	24.5	10	40	62	51	6.6	1	61	10	16	5	M6	48	21.8	16,100	44,900	0.04	0.43
R25-25K2-FSCDIN	24.7	25	40	62	51	6.6	1	70	10	16	5	M6	48	22.1	7,400	19,100	0.04	0.48
R25-25K4-DFSCDIN	24.7	25	40	62	51	6.6	1	70	10	16	5	M6	48	22.1	13,500	38,200	0.04	0.46
R32-05K6-FSCDIN	31.7	5	50	80	65	9	1	48	12	10	6	M6	62	29.1	23,900	81,900	0.04	0.59
R32-10K5-FSCDIN	31.8	10	50	80	65	9	1	77	12	16	6	M6	62	28.6	31,500	80,100	0.04	0.82
R32-20K3-FSCDIN	31.8	20	50	80	65	9	1	88	12	16	6	M6	62	28.6	17,000	48,500	0.04	0.91
R32-32K2-FSCDIN	31.9	32	50	80	65	9	1	88	12	20	6	M6	62	28.7	11,600	31,800	0.04	0.90
R32-32K4-DFSCDIN	31.9	32	50	80	65	9	1	88	12	20	6	M6	62	28.7	20,600	62,200	0.04	0.87
R40-05K6-FSCDIN	39.4	5	63	93	78	9	2	50	14	10	7	M8 × 1	70	36.8	25,900	100,600	0.04	0.93

Ballscrews

Rolled ballscrews

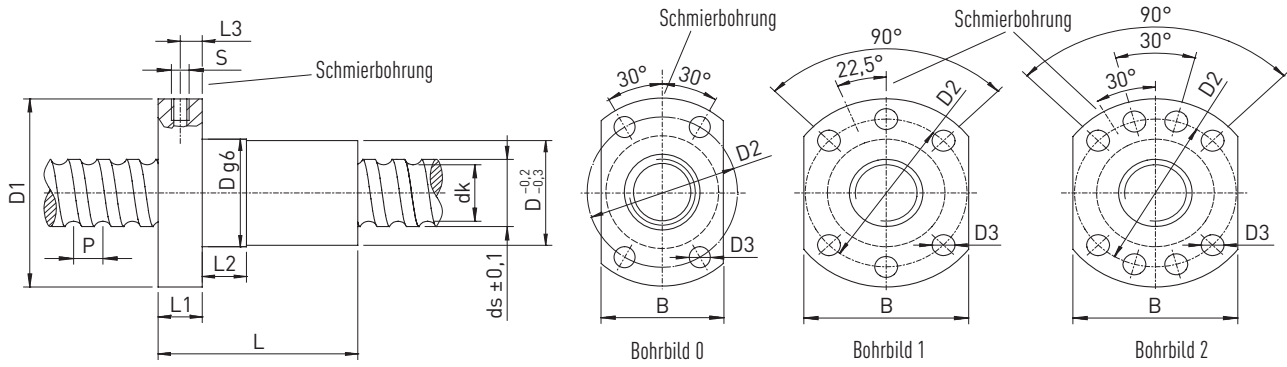


Table 4.4 Nut dimensions – continuation

Article number	ds	P	D	D1	D2	D3	Hole pattern	L	L1	L2	L3	S	B	dk	C _{dyn} [N]	C ₀ [N]	Max. axial play [mm]	Mass [kg/St.]
R40-10K4-FSCDIN	37.8	10	63	93	78	9	2	70	14	16	7	M8 × 1	70	32.8	45,000	123,000	0.04	1.19
R40-20K3-FSCDIN	37.8	20	63	93	78	9	2	88	14	16	7	M8 × 1	70	32.8	34,850	90,000	0.07	1.43
R40-40K2-FSCDIN	37.9	40	63	93	78	9	2	102	14	16	7	M8 × 1	70	32.9	23,000	58,400	0.07	1.61
R40-40K4-DFSCDIN	37.9	40	63	93	78	9	2	102	14	16	7	M8 × 1	70	32.9	41,500	115,800	0.07	1.59
R50-05K6-FSCDIN	49.4	5	75	110	93	11	2	50	16	10	8	M8 × 1	85	46.8	28,300	127,200	0.07	1.32
R50-10K6-FSCDIN	48.0	10	75	110	93	11	2	90	16	20	8	M8 × 1	85	42.9	74,500	250,000	0.07	2.05
R50-20K5-FSCDIN	47.9	20	75	110	93	11	2	132	18	25	9	M8 × 1	85	42.9	67,200	217,500	0.07	2.89
R50-40K3-FSCDIN	50.0	40	75	110	93	11	2	149	18	45	9	M8 × 1	85	45.0	39,000	123,000	0.07	2.96
R50-40K6-DFSCDIN	50.0	40	75	110	93	11	2	149	18	45	9	M8 × 1	85	45.0	70,300	242,600	0.07	2.93
R63-10T6-FSIDIN	63.1	10	90	125	108	11	2	120	18	16	9	M8 × 1	95	58.0	61,920	214,090	0.07	3.30

All dimensions stated without a unit are in mm

- Nuts with NBR wiper
- For nut housing, see Section 8.4
- No axial play on request (T5)
- FSCDIN/FSIDIN: Nut filled on one turn
- DFSCDIN: Nut filled on two turns
- R12 to R40 also available in T5

Order example:

R	25	10	K3	FSCDIN	650	730	0.052
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