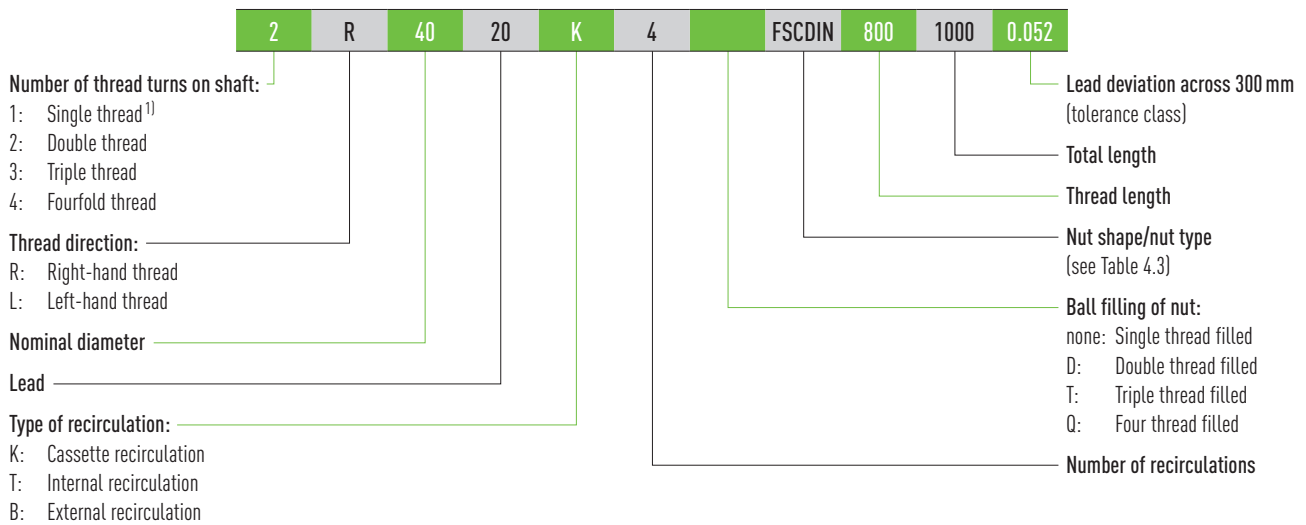
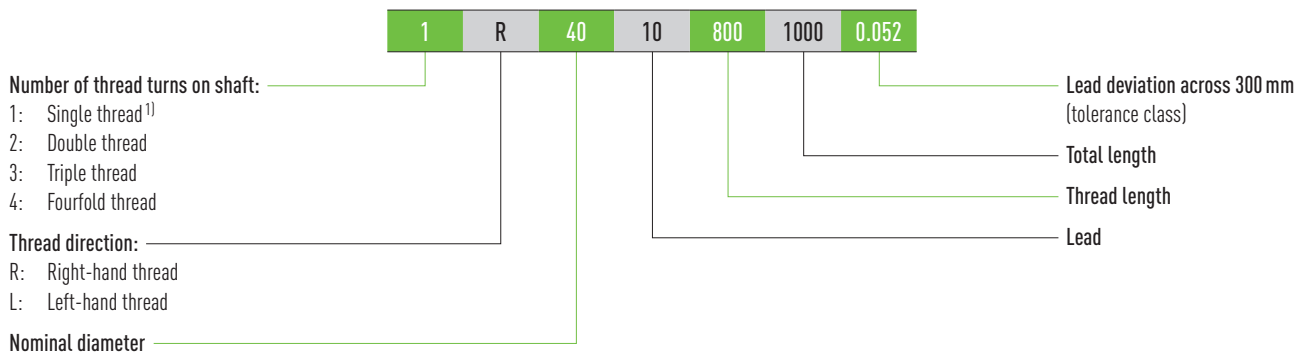


4.3 HIWIN order code for rolled ballscrews

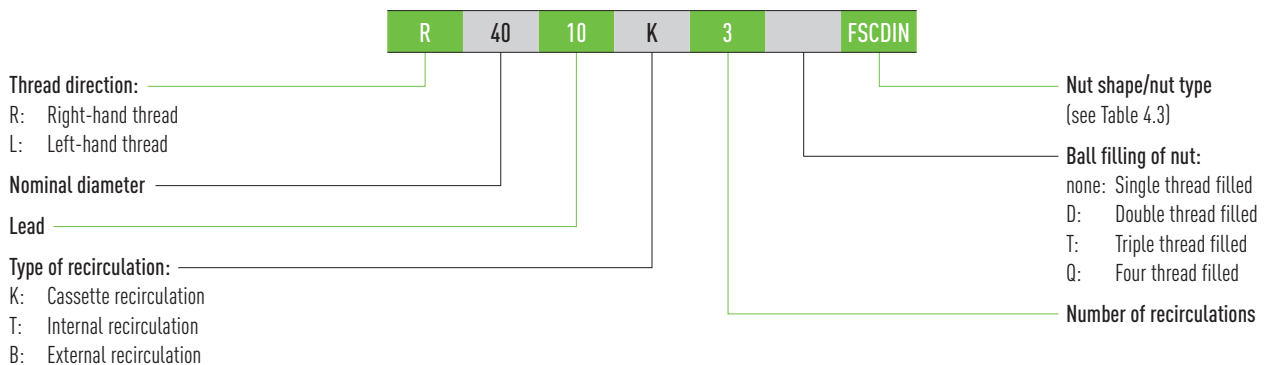
In order to clearly identify the ballscrew, information about the ballscrew shaft and nut is needed.



Order code for ballscrew shaft without the nut



Order code for ballscrew nut without the shaft



¹⁾ Standard; can be omitted with single-thread shafts

Ballscrews

Rolled ballscrews

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

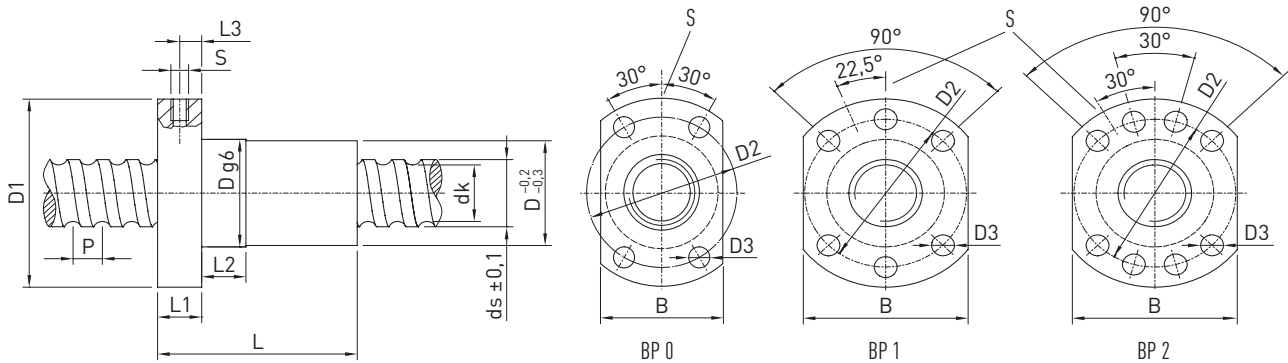


Table 4.4 Nut dimensions

Type	ds	P	D	D1	D2	D3	Hole pattern BP	L	L1	L2	L3	Lubrication hole S	B	dk	C _{dyn} [N]	C ₀ [N]	Max. axial play [mm]	Mass [kg/piece]
R12-05K4-FSCDIN	11.7	5	24	40	32	4.5	0	33	8	8	4	M3	26	9.9	6,900	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	6,400	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	8,100	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	9,900	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	9,900	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	6,500	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	16,400	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	12,100	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	8,400	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	15,300	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	18,200	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	18,100	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	9,300	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	16,900	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	29,200	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	33,000	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	20,900	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	14,200	31,800	0.04	0.90

All dimensions stated without a unit are in mm

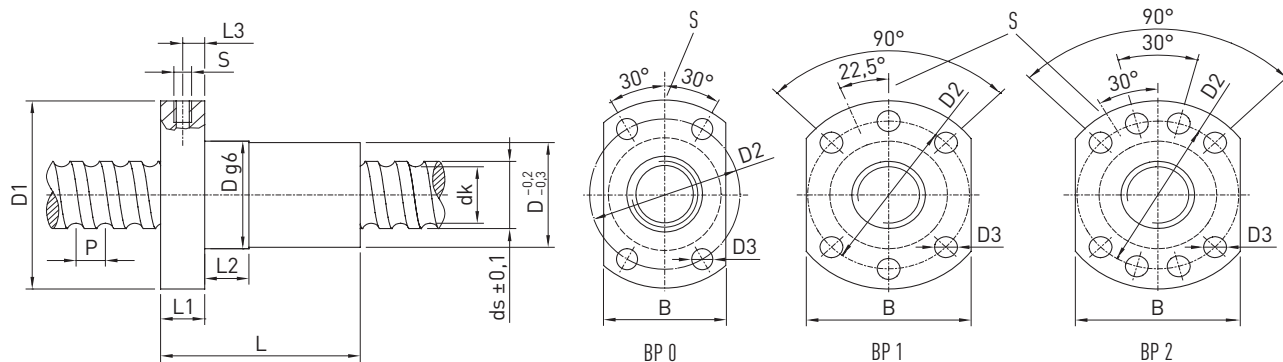


Table 4.4 Nut dimensions

Type	ds	P	D	D1	D2	D3	Hole pattern BP	L	L1	L2	L3	Lubri-cation hole S	B	dk	C _{dyn} [N]	C ₀ [N]	Max. axial play [mm]	Mass [kg/piece]
R32-32K4-DFSCDIN	31.9	32	50	80	65	9	1	88	12	20	6	M6	62	28.7	25,700	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	31,700	100,600	0.04	0.93
R40-10K4-FSCDIN	37.8	10	63	93	78	9	2	70	14	16	7	M8 × 1	70	32.8	55,700	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	42,200	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	28,500	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	51,700	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	34,600	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	89,800	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	75,700	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	48,300	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	87,800	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	75,900	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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