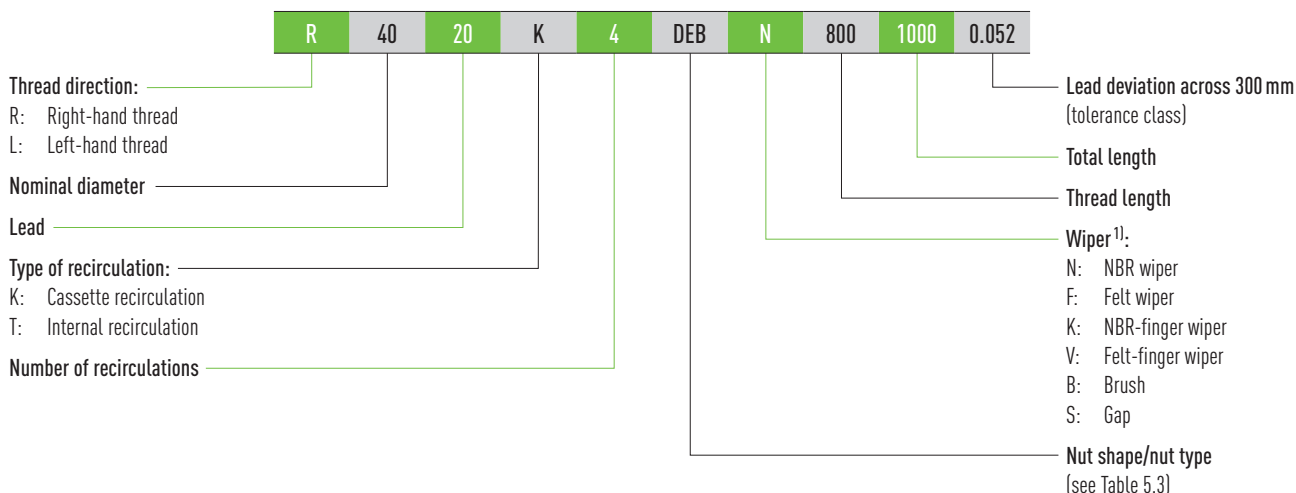


Ballscrews

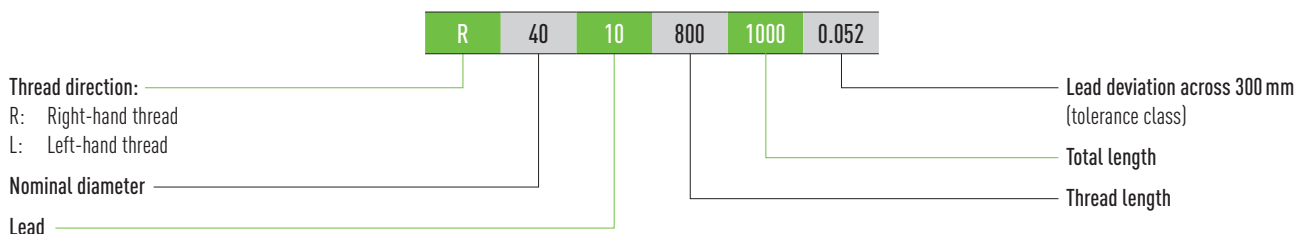
Peeled ballscrews

5.3 HIWIN order code for peeled ballscrews

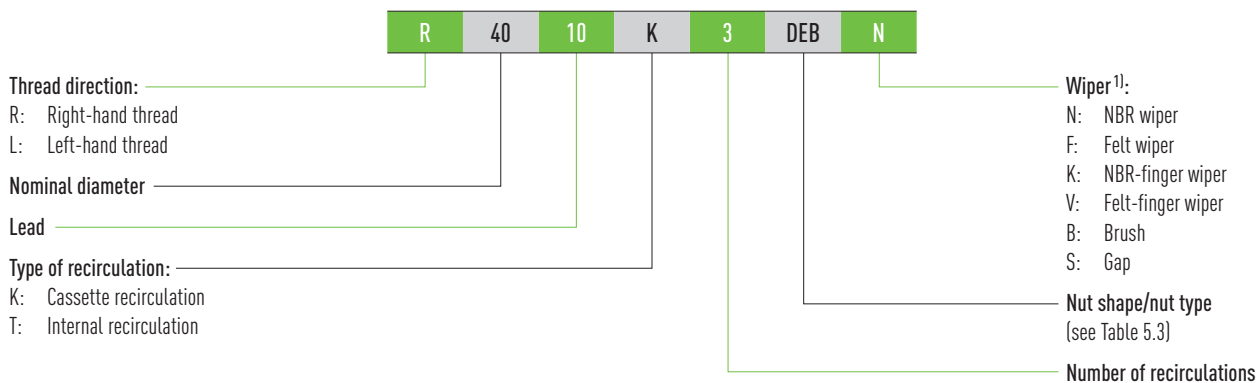
In order to clearly identify the ballscrew, information about the ballscrew shaft and nut is needed..



Order code for ballscrew shaft without the nut



Order code for ballscrew nut without the shaft



¹⁾ The wiper used is shown in the following tables for the individual nut types. For the DEB-x and DDB-x nut types, you can choose between N, K, F or V wipers, depending on the thread pitch.

Table 5.3 Overview of nut shapes	
Nut designation	Description
DEB-x	Flange single nut with variable wiper type
DDB-x	Flange double nut with variable wiper type
ZE	Cylindrical single nut
SE	Cylindrical single nut with screw-in thread
SEM	Flange single nut with integrated locking nut ²⁾

²⁾ Simply using a safety nut does not provide sufficient protection against a load being lowered unintentionally. The safety guidelines valid for the application must be observed. The safety nut it is not a safety component according to the Machinery Directive.

5.4 Nuts for peeled ballscrews

5.4.1 Flange single nut DEB-x

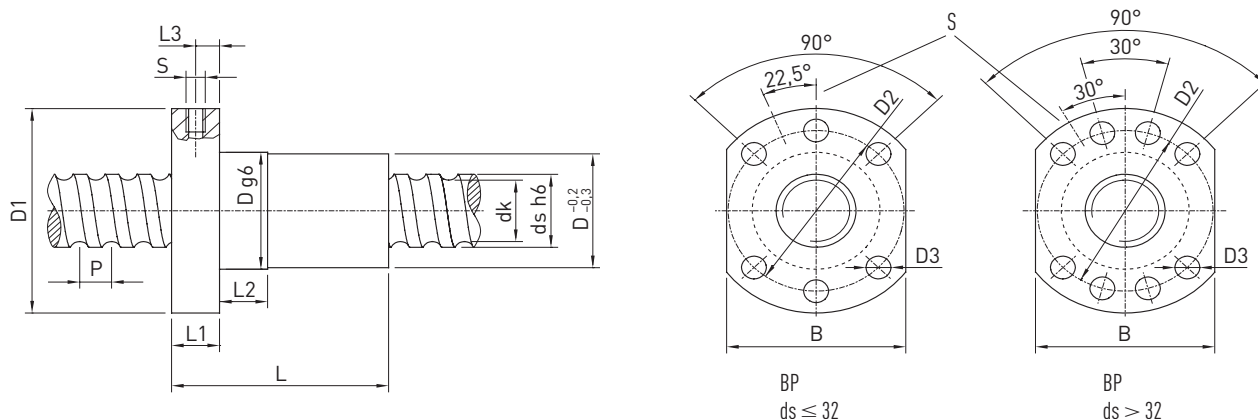


Fig. 5.1 Flange single nut DEB-x with Wiper N and F

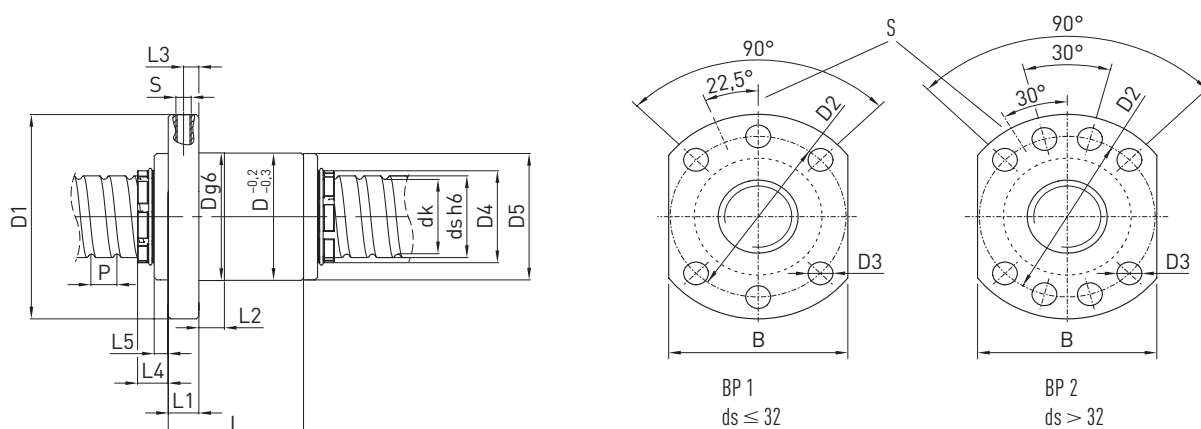


Fig. 5.2 Flange single nut DEB-x with Wiper K and V

BP Hole pattern



Table 5.4 Nut dimensions (wiper variants N and F or K and V)

Type	ds	P	D	D1	D2	D3	L	L1	L2	L3	L4 ¹⁾	L5 ¹⁾	Lubri- cation hole S	B	dk	Dynamic load rating C _{dyn} [N]	Static load rating C ₀ [N]	Max. axial play [mm]	Mass [kg/piece]	N/ K	F/ V
R16-05K4-DEB-x ²⁾	15	5	28	48	38	5.5	47	10	10	5.0	14	8	M6	40	12.5	13,800	16,400	0.02	0.15	x	x
R16-10K3-DEB-x	15	10	28	48	38	5.5	53	10	10	5.0	14	8	M6	40	12.9	10,800	12,800	0.02	0.17	x	x
R16-16K2-DEB-x	15	16	28	48	38	5.5	55	10	10	5.0	14	8	M6	40	12.9	7,100	8,300	0.02	0.18	x	
R20-05K4-DEB-x ²⁾	20	5	36	58	47	6.6	48	10	10	5.0	10.5	5	M6	44	17.3	17,300	23,300	0.02	0.29	x	x
R20-10K3-DEB-x	20	10	36	58	47	6.6	55	10	10	5.0	10.5	5	M6	44	17.3	13,100	17,400	0.02	0.30	x	x
R20-20K2-DEB-x	20	20	36	58	47	6.6	65	10	10	5.0	12	6	M6	44	17.3	8,800	11,800	0.02	0.32	x	
R25-05K4-DEB-x ²⁾	25	5	40	62	51	6.6	53	10	10	5.0	11.5	6	M6	48	22.3	19,200	29,800	0.02	0.32	x	x
R25-10K4-DEB-x	25	10	40	62	51	6.6	70	10	10	5.0	12	6	M6	48	22.3	19,000	29,700	0.02	0.38	x	x
R25-25K2-DEB-x	25	25	40	62	51	6.6	79	10	10	5.0	12	6	M6	48	22.3	9,700	14,900	0.02	0.41	x	
R32-05K5-DEB-x ²⁾	32	5	50	80	65	9.0	53	12	10	6.0	12.5	6	M6	62	29.3	26,200	48,700	0.02	0.60	x	x

¹⁾ Only for wiper variants K and V

²⁾ Left-hand nut available ex warehouse (only for wiper variant N and F)

All dimensions stated without a unit are in mm

Ballscrews

Peeled ballscrews

Table 5.4 Nut dimensions (wiper variants N and F or K and V)

Type	ds	P	D	D1	D2	D3	L	L1	L2	L3	L4 ¹⁾	L5 ¹⁾	Lubri- cation hole S	B	dk	Dynamic load rating C _{dyn} [N]	Static load rating C ₀ [N]	Max. axial play [mm]	Mass [kg/piece]	N/ K	F/ V
R32-10K5-DEB-x ²⁾	32	10	50	80	65	9.0	83	14	20	7.0	11	6	M6	62	28.7	35,800	72,800	0.02	0.68	x	x
R32-10K5-DEBH-x	32	10	56	86	71	9.0	87	14	20	7.0	12	6	M6	65	26.9	65,600	108,800	0.02	0.75	x	x
R32-20K2-DEB-x	32	20	56	86	71	9.0	72	14	20	7.0	11	6	M6	65	26.9	27,800	43,000	0.02	0.75	x	
R40-05K5-DEB-x ²⁾	40	5	63	93	78	9.0	56	14	10	7.0	11	5	M8 × 1	70	37.3	28,700	61,700	0.02	0.90	x	x
R40-10K4-DEB-x ²⁾	38	10	63	93	78	9.0	81	14	20	7.0	11	5	M8 × 1	70	32.9	58,700	105,800	0.02	1.13	x	x
R40-20K2-DEB-x	38	20	63	93	78	9.0	79	14	20	7.0	12	5	M8 × 1	70	32.9	30,500	52,400	0.03	1.10	x	
R40-40K2-DEB-x	38	40	63	93	78	9.0	113	14	20	7.0	11	5	M8 × 1	70	32.9	30,100	53,300	0.04	1.60	x	
R50-05K5-DEB-x	50	5	75	110	93	11.0	58	16	10	8.0	12	6	M8 × 1	85	47.3	31,400	77,900	0.02	1.20	x	x
R50-10K5-DEB-x	50	10	75	110	93	11.0	93	16	20	8.0	12	6	M8 × 1	85	44.9	82,000	179,100	0.02	1.80	x	x
R50-20K3-DEB-x	50	20	75	110	93	11.0	101	16	20	8.0	12	6	M8 × 1	85	44.9	51,200	106,900	0.03	1.95	x	
R63-10K6-DEB-x	63	10	90	125	108	11.0	103	18	10	9.0	13	7	M8 × 1	95	57.9	105,700	271,500	0.04	2.90	x	x
R63-20T5-DEB-x	63	20	95	135	115	13.5	169	20	25	10.0	15	9	M8 × 1	100	55.5	150,200	315,400	0.04	4.10	x	
R63-20K6-DEBH-x	63	20	125	165	145	13.5	185	25	25	12.5	18	10	M8 × 1	130	53.2	295,900	723,500	0.04	9.50	x	
R80-10K6-DEB-x	80	10	105	145	125	13.5	105	20	12	10.0	14	6	M8 × 1	110	74.9	118,000	355,800	0.04	3.00	x	x
R80-20K5-DEB-x	80	20	125	165	145	13.5	157	25	25	12.5	17	9	M8 × 1	130	72.5	176,400	437,400	0.05	7.80	x	
R80-20K6-DEBH-x	78	20	135	175	155	13.5	175	25	25	12.5	19	11	M8 × 1	140	68.2	336,500	931,200	0.05	13.50	x	
R80-20K7-DEBH-x	78	20	135	175	155	13.5	195	25	25	12.5	19	11	M8 × 1	140	68.2	384,100	1,086,400	0.05	15.00	x	

¹⁾ Only for wiper variants K and V

²⁾ Left-hand nut available ex warehouse (only for wiper variant N and F)

All dimensions stated without a unit are in mm

- Reduced axial play on request
- Nuts with interchangeable dirt wipers
- For nut housing, see Section 8.4

Order example:

R	63	10	T6	DEB	N	3850	3972	0.052
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