Nuts

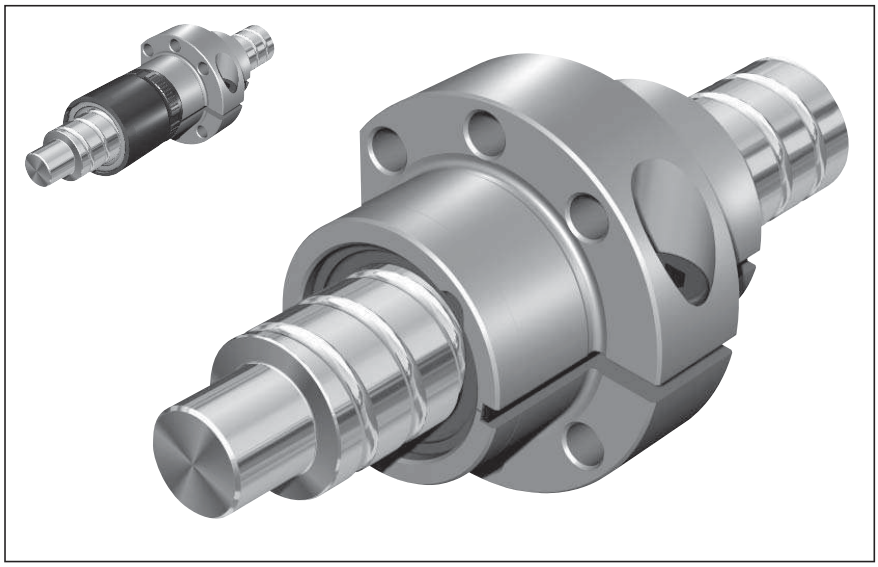
Adjustable-Preload Single Nut SEM-E-C

Standard series

Mounting dimensions per DIN 69 051, Part 5
Flange type C

With standard seals
Reinforced seals, see page 126
Adjustable preload
For precision-rolled screws SN-R of tolerance grade T5, T7

⚠ **When setting up applications, do not allow components to collide with the Front Lube Unit.**



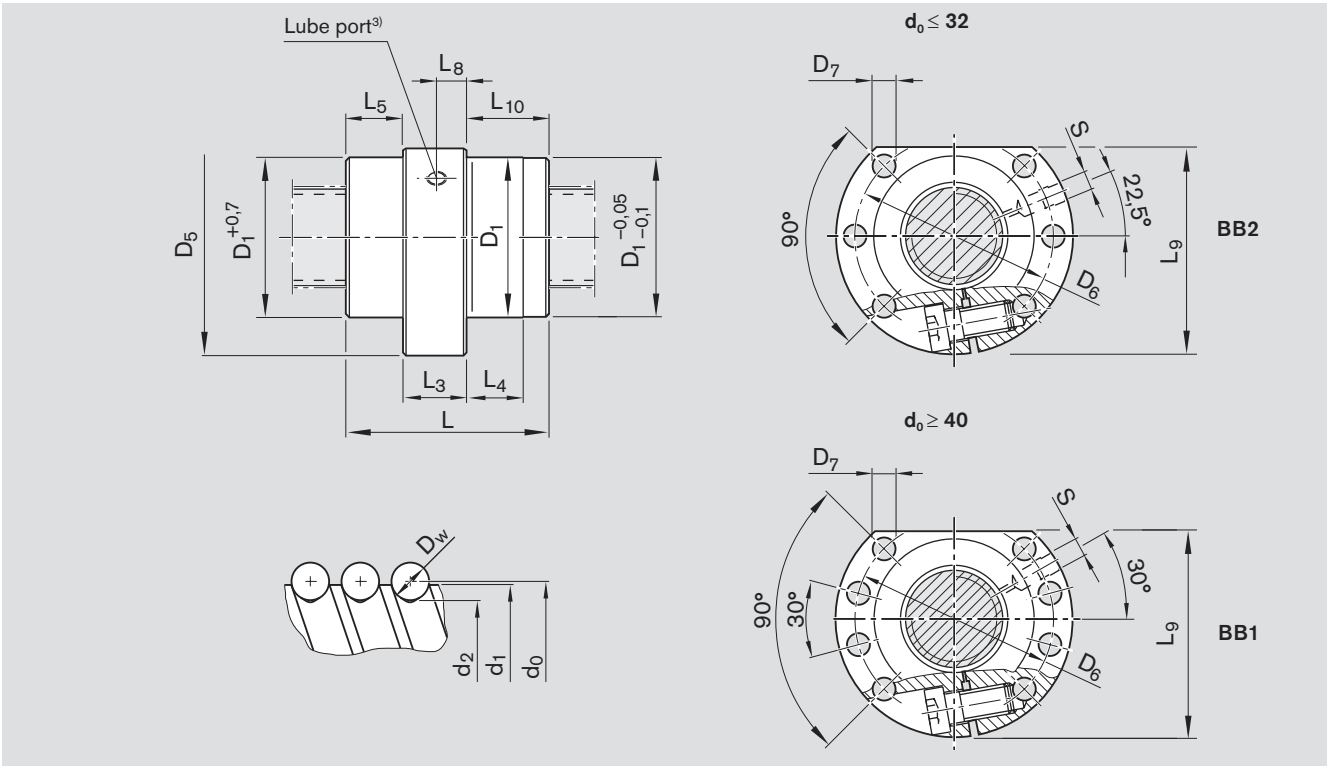
d_0 = nominal diameter
P = lead
(R = right-hand, L = left-hand)
D_W = ball diameter
i = number of ball track turns

Ordering code:

SEM-E-C	20 x 5R x 3-4	1	2	T7	R	82Z120	41Z120	1250	0	1

Category	Size	Part number	Load ratings		Linear speed[1]	Centering diameter D_1 after adjustment	
			dyn. C	stat. C_0	v_{max}		
	d_0 x P x D_W - i		(N)	(N)	(m/min)	**min.** (mm)	**max.** (mm)
B	**16 x 5R x 3 - 4**	R1512 010 55	12300	16100	30	27.940	27.975
C	**16 x 10R x 3 - 3**	R1512 040 75	9600	12300	60	27.940	27.975
C	**16 x 16R x 3 - 3**	R1512 060 55	9300	12000	96	27.950	27.978
B	**20 x 5R x 3 - 4**	R1512 110 75	14300	21500	30	35.935	35.970
B	**20 x 20R x 3.5 - 3**	R1512 170 55	13300	18800	120	35.945	35.973
B	**25 x 5R x 3 - 4**	R1512 210 75	15900	27200	30	39.935	39.970
B	**25 x 10R x 3 - 4**	R1512 240 75	15700	27000	60	39.935	39.970
C	**25 x 25R x 3.5 - 3**	R1512 280 55	14700	23300	150	39.945	39.973
B	**32 x 5R x 3.5 - 4**	R1512 310 75	21600	40000	23	49.935	49.970
B	**32 x 10R x 3.969 - 5**	R1512 340 75	31700	58300	47	49.935	49.970
C	**32 x 20R x 3.969 - 3**	R1512 370 55	19700	33700	94	49.945	49.973
C	**32 x 32R x 3.969 - 3**	R1512 390 55	19500	34000	150	49.945	49.973
B	**40 x 5R x 3.5 - 5**	R1512 410 75	29100	64100	19	62.931	62.966
C	**40 x 10R x 6 - 4**	R1512 440 75	50000	86400	38	62.931	62.966
C	**40 x 12R x 6 - 4**	R1512 450 55	49900	86200	45	62.931	62.966
C	**40 x 20R x 6 - 3**	R1512 470 75	37900	62800	75	62.941	62.969
C	**40 x 40R x 6 - 3**	R1512 490 55	37000	62300	150	62.941	62.969
C	**50 x 5R x 3.5 - 5**	R1512 510 75	32000	81300	15	74.931	74.966
B	**50 x 10R x 6 - 6**	R1512 540 75	79700	166500	30	74.931	74.966
C	**50 x 12R x 6 - 6**	R1512 550 55	79600	166400	36	74.931	74.966
B	**50 x 20R x 6.5 - 5**	R1512 570 76	75700	149700	60	74.941	74.969
B	**50 x 40R x 6.5 - 3**	R1512 590 55	46500	85900	120	74.941	74.969
C	**63 x 10R x 6 - 6**	R1512 640 75	88800	214300	24	89.926	89.961
B	**63 x 20R x 6.5 - 5**	R1512 670 76	83900	190300	48	94.936	94.964
C	**63 x 40R x 6.5 - 3**	R1512 690 55	53400	114100	95	94.936	94.964
C	**80 x 10R x 6.5 - 6**	R1512 740 75	108400	291700	19	104.926	104.961
C	**80 x 20R x 12.7 - 6[2]**	R1512 770 56	262700	534200	30	124.931	124.959

1) See page 115 Characteristic speed $d_0 \cdot n$ and page 150 Critical speed n_{cr}
2) Nuts 80 x 20R x 12.7 - 6 available up to a thread length of 2500 mm, with preload



Size	Dimensions (mm)															Weight
d_0 x P x D_W - i	d_1	d_2	D_1 f9	D_5	Hole pattern	D_6	D_7	L	L_3	L_4	L_5	L_8	L_9	L_{10}	S3)	m (kg)
16 x 5R x 3 - 4	15.0	12.9	28	48	BB2	38	5.5	38	15	10	11.5	7.1	44.0	11.5	M6	0.20
16 x 10R x 3 - 3	15.0	12.9	28	48	BB2	38	5.5	45	15	15	15.0	11.0	44.0	15.0	M6	0.22
16 x 16R x 3 - 3	15.0	12.9	28	48	BB2	38	5.5	61	15	20	23.0	10.0	44.0	23.0	M6	0.29
20 x 5R x 3 - 4	19.0	16.9	36	58	BB2	47	6.6	40	15	10	12.5	7.1	51.0	12.5	M6	0.33
20 x 20R x 3.5 - 3	19.0	16.7	36	58	BB2	47	6.6	77	20	25	28.5	12.5	51.0	28.5	M6	0.56
25 x 5R x 3 - 4	24.0	21.9	40	62	BB2	51	6.6	45	20	10	12.5	9.5	55.0	12.5	M6	0.43
25 x 10R x 3 - 4	24.0	21.9	40	62	BB2	51	6.6	64	20	16	22.0	10.0	55.0	22.0	M6	0.54
25 x 25R x 3.5 - 3	24.0	21.4	40	62	BB2	51	6.6	95	25	30	35.0	14.0	55.0	35.0	M6	0.77
32 x 5R x 3.5 - 4	31.0	28.4	50	80	BB2	65	9.0	48	20	10	14.0	9.7	71.0	14.0	M6	0.74
32 x 10R x 3.969 - 5	31.0	27.9	50	80	BB2	65	9.0	77	20	16	28.5	12.5	71.0	28.5	M6	0.97
32 x 20R x 3.969 - 3	31.0	27.9	50	80	BB2	65	9.0	84	20	25	32.0	12.5	71.0	32.0	M6	1.04
32 x 32R x 3.969 - 3	31.0	27.9	50	80	BB2	65	9.0	120	20	40	50.0	12.5	71.0	50.0	M6	1.34
40 x 5R x 3.5 - 5	39.0	36.4	63	93	BB1	78	9.0	54	25	10	14.5	12.0	81.5	14.5	M8x1	1.25
40 x 10R x 6 - 4	38.0	33.8	63	93	BB1	78	9.0	70	25	16	22.5	11.8	81.5	22.5	M8x1	1.39
40 x 12R x 6 - 4	38.0	33.8	63	93	BB1	78	9.0	75	25	25	25.0	12.5	81.5	25.0	M8x1	1.47
40 x 20R x 6 - 3	38.0	33.8	63	93	BB1	78	9.0	88	25	25	31.5	16.5	81.5	31.5	M8x1	1.55
40 x 40R x 6 - 3	38.0	33.8	63	93	BB1	78	9.0	142	40	45	51.0	25.0	81.5	51.0	M8x1	2.69
50 x 5R x 3.5 - 5	49.0	46.4	75	110	BB1	93	11.0	54	25	10	14.5	12.0	97.5	14.5	M8x1	1.67
50 x 10R x 6 - 6	48.0	43.8	75	110	BB1	93	11.0	90	30	16	30.0	14.1	97.5	30.0	M8x1	2.46
50 x 12R x 6 - 6	48.0	43.8	75	110	BB1	93	11.0	105	30	25	37.5	15.0	97.5	37.5	M8x1	2.69
50 x 20R x 6.5 - 5	48.0	43.4	75	110	BB1	93	11.0	132	30	25	51.0	20.0	97.5	51.0	M8x1	3.08
50 x 40R x 6.5 - 3	48.0	43.4	75	110	BB1	93	11.0	149	30	45	59.5	18.0	97.5	59.5	M8x1	3.39
63 x 10R x 6 - 6	61.0	56.8	90	125	BB1	108	11.0	90	30	16	30.0	14.0	110.0	30.0	M8x1	2.83
63 x 20R x 6.5 - 5	61.0	56.4	95	135	BB1	115	13.5	132	30	25	51.0	20.0	117.5	51.0	M8x1	4.86
63 x 40R x 6.5 - 3	61.0	56.4	95	135	BB1	115	13.5	149	30	45	59.5	18.0	117.5	59.5	M8x1	5.36
80 x 10R x 6.5 - 6	78.0	73.3	105	145	BB1	125	13.5	95	30	16	32.5	14.0	127.5	32.5	M8x1	3.73
80 x 20R x 12.7 - 6	76.0	67.0	125	165	BB1	145	13.5	170	50	25	60.0	24.0	147.5	60.0	M8x1	13.50

3) Lube port machining: flat surface $L_3 \leq 13$ mm, countersink $L_3 > 14$ mm