

Adjustable-preload single nut SEM-E-C

Mounting dimensions similar to
DIN 69051, Part 5
flange type C

With seals Adjustable preload
Tolerance grade T3², 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)
 D_w = ball diameter
i = number of ball track turns



Ordering data:

BASA	20 x 5R x 3	SEM-E-C - 4	00	1	2	T7	R	82Z120	41Z120	1250	0	1
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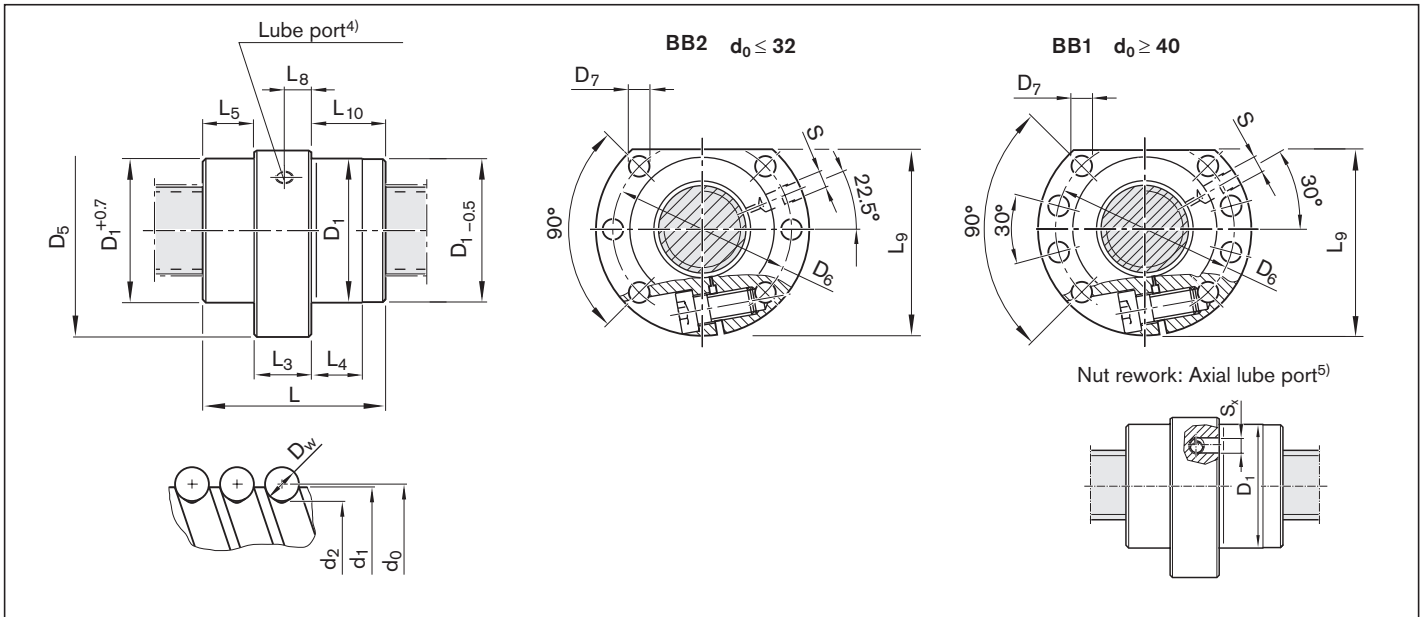
Category	Size $d_0 \times P \times D_w - i$	Part number	Load ratings ³⁾		Linear speed ¹⁾ v_{max} (m/min)	Centering diameter D_1 after adjustment	
			dyn. C (N)	stat. C_0 (N)		min. (mm)	max. (mm)
B	16 x 5R x 3 - 4	R1512 010 55	14,800	16,100	30	27.940	27.975
B	16 x 10R x 3 - 3	R1512 040 75	11,500	12,300	60	27.940	27.975
B	16 x 16R x 3 - 3	R1512 060 55	11,200	12,000	96	27.950	27.978
B	20 x 5R x 3 - 4	R1512 110 75	17,200	21,500	30	35.935	35.970
B	20 x 20R x 3.5 - 3	R1512 170 55	16,000	18,800	120	35.945	35.973
B	25 x 5R x 3 - 4	R1512 210 75	19,100	27,200	30	39.935	39.970
B	25 x 10R x 3 - 4	R1512 240 75	18,800	27,000	60	39.935	39.970
B	25 x 25R x 3.5 - 3	R1512 280 55	17,600	23,300	150	39.945	39.973
B	32 x 5R x 3.5 - 4	R1512 310 75	25,900	40,000	23	49.935	49.970
B	32 x 10R x 3.969 - 5	R1512 340 75	38,000	58,300	47	49.935	49.970
B	32 x 20R x 3.969 - 3	R1512 370 55	23,600	33,700	94	49.945	49.973
B	32 x 32R x 3.969 - 3	R1512 390 55	23,400	34,000	150	49.945	49.973
B	40 x 5R x 3.5 - 5	R1512 410 75	34,900	64,100	19	62.931	62.966
B	40 x 10R x 6 - 4	R1512 440 75	60,000	86,400	38	62.931	62.966
C	40 x 12R x 6 - 4	R1512 450 55	59,900	86,200	45	62.931	62.966
B	40 x 20R x 6 - 3	R1512 470 75	45,500	62,800	75	62.941	62.969
B	40 x 40R x 6 - 3	R1512 490 55	44,400	62,300	150	62.941	62.969
B	50 x 5R x 3.5 - 5	R1512 510 75	38,400	81,300	15	74.931	74.966
B	50 x 10R x 6 - 6	R1512 540 75	95,600	166,500	30	74.931	74.966
C	50 x 12R x 6 - 6	R1512 550 55	95,500	166,400	36	74.931	74.966
B	50 x 20R x 6.5 - 5	R1512 570 76	90,800	149,700	60	74.941	74.969
B	50 x 40R x 6.5 - 3	R1512 590 55	55,800	85,900	120	74.941	74.969
B	63 x 10R x 6 - 6	R1512 640 75	106,600	214,300	24	89.926	89.961
B	63 x 20R x 6.5 - 5	R1512 670 76	100,700	190,300	48	94.936	94.964
B	63 x 40R x 6.5 - 3	R1512 690 55	64,100	114,100	95	94.936	94.964
C	80 x 10R x 6.5 - 6	R1512 740 75	130,100	291,700	19	104.926	104.961
C	80 x 20R x 12.7 - 6	R1512 770 56	315,200	534,200	30	124.931	124.959

1) See "Characteristic speed $d_0 \cdot n$ " on page 133 and "Critical speed n_{cr} " on page 174

2) Tolerance grade T3 for sizes shown in table page 12

3) The load ratings are valid for tolerance grade T3 and T5 only.

For other tolerance grades, please take into account the correction factor f_{ac} on page 133.



- 4) Lube port machining: flat surface $L_3 \leq 15$ mm, countersink $L_3 > 15$ mm
 5) The axial lube port S_x is always located on the pitch circle D_6 of the nut unit.

Size $d_0 \times P \times D_w - i$	(mm)															Mass m (kg)	
	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}	$S^4)$		S_x
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	4	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	4	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	4	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	4	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	4	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	4	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	4	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	4	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	4	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	4	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	4	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	4	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	5	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	5	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	5	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	5	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	5	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	5	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	5	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	5	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	5	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	5	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	5	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	5	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	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	5	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	5	13.50