

Precision Ball Screw Assemblies Single Nut with Flange FEM-E-C

Standard series

Mounting dimensions to DIN 69 051, Part 5

Flange type C

With standard seals

Reinforced seals, see Page 106

With backlash, reduced backlash,
preload 2% or 5% C

For precision-rolled screws SN-R of
tolerance grade T5, T7, T9 and precision
screws SN-F of tolerance grade P1, P3, P5,
(T7)

d_0 = nominal diameter

P = lead

(R = right-hand, L = left-hand)

D_w = ball diameter

i = number of ball track turns

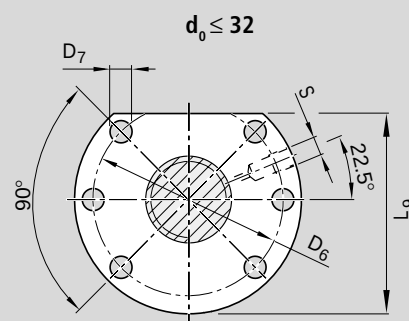
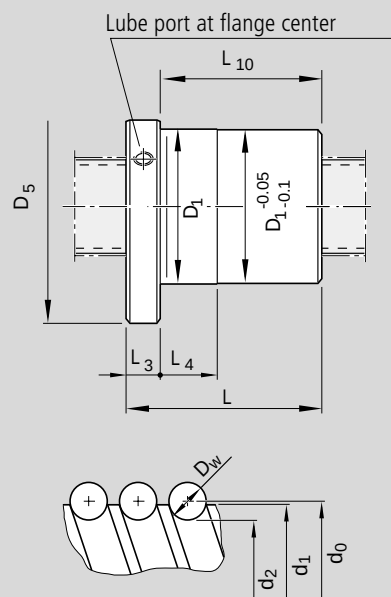
Order code:

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

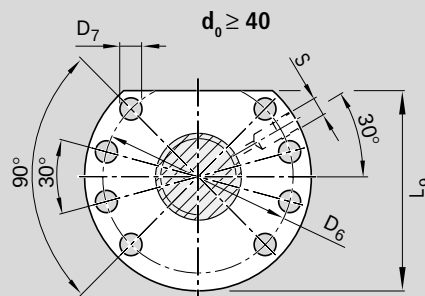


Size $d_0 \times P \times D_w - i$	Part number	Load ratings		Speed* v_{max} [m/min]	
		dyn. C (N)	stat. C_0 (N)		
16 x 5R x 3 - 4	1502-0-1065	12300	16100	30	
16 x 10R x 3 - 3	1502-0-4085	9600	12300	60	
16 x 16R x 3 - 3	1502-0-6065	9300	12000	96	
20 x 5R x 3 - 4	1502-1-1085	14300	21500	30	
20 x 20R x 3.5 - 3	1502-1-7065	13300	18800	120	
25 x 5R x 3 - 4	1502-2-1085	15900	27200	30	
25 x 10R x 3 - 4	1502-2-4085	15700	27000	60	
25 x 25R x 3.5 - 3	1502-2-8065	14700	23300	150	
32 x 5R x 3.5 - 4	1502-3-1085	21600	40000	23	
32 x 10R x 3.969 - 5	1502-3-4086	31700	58300	47	
32 x 20R x 3.969 - 3	1502-3-7065	19700	33700	94	
32 x 32R x 3.969 - 3	1502-3-9065	19500	34000	150	
40 x 5R x 3.5 - 5	1502-4-1086	29100	64100	19	
40 x 10R x 6 - 4	1502-4-4085	50000	86400	38	
40 x 12R x 6 - 4	1502-4-5065	49900	86200	45	
40 x 16R x 6 - 4	1502-4-6065	49700	85900	60	
40 x 20R x 6 - 3	1502-4-7085	37900	62800	75	
40 x 40R x 6 - 3	1502-4-9065	37000	62300	150	
50 x 5R x 3.5 - 5	1502-5-1086	32000	81300	15	
50 x 10R x 6 - 6	1502-5-4086	79700	166500	30	
50 x 12R x 6 - 6	1502-5-5066	79600	166400	36	
50 x 16R x 6 - 6	1502-5-6066	79400	166000	48	
50 x 20R x 6.5 - 5	1502-5-7086	75700	149700	60	
50 x 40R x 6.5 - 3	1502-5-9065	46500	85900	120	
63 x 10R x 6 - 6	1502-6-4086	88800	214300	24	
63 x 20R x 6.5 - 5	1502-6-7086	83900	190300	48	
63 x 40R x 6.5 - 3	1502-6-9065	53400	114100	95	
80 x 10R x 6.5 - 6	1502-7-4086	108400	291700	19	
80 x 20R x 12.7 - 6	1502-7-7096	262700	534200	30	
100 x 10R x 6.5 - 6	1502-8-4066	119500	371900	10	
100 x 20R x 12.7 - 6	1502-8-7066	295100	686400	20	
125 x 10R x 6.5 - 6	1502-9-4066	130600	468700	8	
125 x 20R x 12.7 - 6	1502-9-7066	326500	870400	16	

* See P. 95 Characteristic speed $d_0 \cdot n$ and P. 116 Critical speed n_k



BB2



BB1

N.B.: On a precision screw SN-F the core diameter d_2 can be smaller by max. 0.3 mm due to the manufacture.

Dimensions (mm)													Weight
	d_1	d_2	D_1 g6	D_5	Hole pattern	D_6	D_7	L	L_3	L_4	L_9	L_{10}	S m (kg)
	15.0	12.9	28	48	BB2	38	5.5	38	12	10	44.0	26	M6 0.19
	15.0	12.9	28	48	BB2	38	5.5	45	12	16	44.0	33	M6 0.21
	15.0	12.9	28	48	BB2	38	5.5	61	12	20	44.0	49	M6 0.26
	19.0	16.9	36	58	BB2	47	6.6	40	12	10	51.0	28	M6 0.31
	19.3	16.7	36	58	BB2	47	6.6	77	12	25	51.0	65	M6 0.49
	24.0	21.9	40	62	BB2	51	6.6	45	12	10	55.0	33	M6 0.36
	24.0	21.9	40	62	BB2	51	6.6	64	12	20	55.0	52	M6 0.47
	24.0	21.4	40	62	BB2	51	6.6	95	12	30	55.0	83	M6 0.63
	31.0	28.4	50	80	BB2	65	9.0	48	13	10	71.0	35	M6 0.62
	31.0	27.9	50	80	BB2	65	9.0	77	13	16	71.0	64	M6 0.84
	31.0	27.9	50	80	BB2	65	9.0	84	13	25	71.0	71	M6 0.90
	31.0	27.9	50	80	BB2	65	9.0	120	13	40	71.0	107	M6 1.21
	39.0	36.4	63	93	BB1	78	9.0	54	15	10	81.5	39	M8x1 1.03
	38.0	33.8	63	93	BB1	78	9.0	70	15	16	81.5	55	M8x1 1.19
	38.0	33.8	63	93	BB1	78	9.0	75	15	25	81.5	60	M8x1 1.27
	38.0	33.8	63	93	BB1	78	9.0	90	15	25	81.5	75	M8x1 1.51
	38.0	33.8	63	93	BB1	78	9.0	88	15	25	81.5	73	M8x1 1.44
	38.0	33.8	63	93	BB1	78	9.0	142	15	45	81.5	127	M8x1 2.16
	49.0	46.4	75	110	BB1	93	11.0	54	15	10	97.5	39	M8x1 1.39
	48.0	43.8	75	110	BB1	93	11.0	90	18	16	97.5	72	M8x1 2.14
	48.0	43.8	75	110	BB1	93	11.0	105	18	25	97.5	87	M8x1 2.38
	48.0	43.8	75	110	BB1	93	11.0	128	18	25	97.5	110	M8x1 2.75
	48.0	43.4	75	110	BB1	93	11.0	132	18	25	97.5	114	M8x1 2.73
	48.0	43.4	75	110	BB1	93	11.0	149	18	45	97.5	131	M8x1 3.04
	61.0	56.8	90	125	BB1	108	11.0	90	22	16	110.0	68	M8x1 2.56
	61.0	56.4	95	135	BB1	115	13.5	132	22	25	117.5	110	M8x1 4.51
	61.0	56.4	95	135	BB1	115	13.5	149	22	45	117.5	127	M8x1 5.04
	78.0	73.3	105	145	BB1	125	13.5	95	22	16	127.5	73	M8x1 3.40
	76.0	67.0	125	165	BB1	145	13.5	170	25	25	147.5	145	M8x1 10.20
	98.0	93.4	125	165	BB1	145	13.5	95	25	16	147.5	70	M8x1 4.40
	96.0	87.1	150	202	BB1	176	17.5	170	30	25	178.5	140	M8x1 14.30
	123.0	118.0	150	202	BB1	176	17.5	95	25	16	178.5	70	M8x1 5.65
	121.0	112.0	170	222	BB1	196	17.5	170	40	25	198.5	130	M8x1 16.10