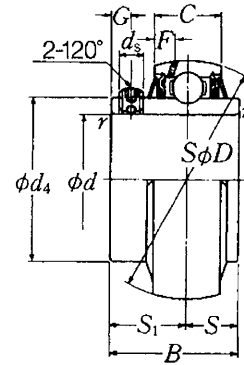


# UC2

## Ball bearings Set screw type



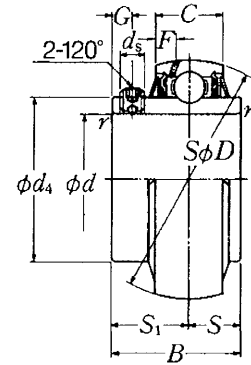
Shaft dia. mm inch	Bearing (1) number	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	<i>r</i> min.	mm inch		<i>G</i>	<i>d<sub>s</sub></i>	<i>d<sub>4</sub></i>	<i>F</i>
							<i>S</i>	<i>S<sub>1</sub></i>				
12 1/2	UC201D1	12	47	31	17	0.6	12.7	18.3	4.5	M5×0.8	29.6	4.7
	UC201-008D1	0.5000	1.8504	1.2205	0.6693	0.024	0.500	0.720	0.177	No.10-32UNF	1.1654	0.185
15 9/16 5/8	UC202D1	15	47	31	17	0.6	12.7	18.3	4.5	M5×0.8	29.6	4.7
	UC202-009D1	0.5625	1.8504	1.2205	0.6693	0.024	0.500	0.720	0.177	No.10-32UNF	1.1654	0.185
	UC202-010D1	0.6250										
17 11/16	UC203D1	17	47	31	17	0.6	12.7	18.3	4.5	M5×0.8	29.6	4.7
	UC203-011D1	0.6875	1.8504	1.2205	0.6693	0.024	0.500	0.720	0.177	No.10-32UNF	1.1654	0.185
20 3/4	UC204D1	20	47	31	17	1	12.7	18.3	4.5	M5×0.8	29.6	4.7
	UC204-012D1	0.7500	1.8504	1.2205	0.6693	0.039	0.500	0.720	0.177	No.10-32UNF	1.1654	0.185
25 13/16 7/8 15/16 1	UC205D1	25	52	34.1	17	1	14.3	19.8	5	M5×0.8	33.9	4.5
	UC205-013D1	0.8125										
	UC205-014D1	0.8750	2.0472	1.3425	0.6693	0.039	0.563	0.780	0.197	No.10-32UNF	1.3346	0.177
	UC205-015D1	0.9375										
1	UC205-100D1	1.0000										
30 1 1/16 1 1/8 1 3/16 1 1/4	UC206D1	30	62	38.1	19	1	15.9	22.2	5	M6×0.75	40.8	4.6
	UC206-101D1	1.0625										
	UC206-102D1	1.1250	2.4409	1.5000	0.7480	0.039	0.626	0.874	0.197	1/4-28UNF	1.6063	0.181
	UC206-103D1	1.1875										
	UC206-104D1	1.2500										
35 1 1/4 1 5/16 1 3/8 1 7/16	UC207D1	35	72	42.9	20	1.5	17.5	25.4	6	M6×0.75	46.8	4.6
	UC207-104D1	1.2500										
	UC207-105D1	1.3125	2.8346	1.6890	0.7874	0.059	0.689	1.000	0.236	1/4-28UNF	1.8425	0.181
	UC207-106D1	1.3750										
	UC207-107D1	1.4375										
40 1 1/2 1 9/16	UC208D1	40	80	49.2	21	1.5	19	30.2	8	M8×1	53	4.5
	UC208-108D1	1.5000	3.1496	1.9370	0.8268	0.059	0.748	1.189	0.315	5/16-24UNF	2.0866	0.177
	UC208-109D1	1.5625										
45 1 5/8 1 11/16 1 3/4	UC209D1	45	85	49.2	22	1.5	19	30.2	8	M8×1	57.5	4.9
	UC209-110D1	1.6250	3.3465	1.9370	0.8661	0.059	0.748	1.189	0.315	5/16-24UNF	2.2638	0.193
	UC209-111D1	1.6875										
	UC209-112D1	1.7500										

Note (1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

<b>Basic load ratings</b>		<b>Mass</b>
N lbf dynamic $C_r$	static $C_{0r}$	kg lb
12 800	6 650	0.21
2 890	1 500	0.46
12 800	6 650	0.20
2 890	1 500	0.44
		0.42
12 800	6 650	0.18
2 890	1 500	0.39
12 800	6 650	0.17
2 890	1 500	0.39
14 000	7 850	0.20
		0.53
3 150	1 770	0.51
		0.46
		0.44
19 500	11 300	0.32
		0.82
4 400	2 540	0.77
		0.73
		0.66
25 700	15 300	0.46
		1.21
5 750	3 450	1.15
		1.08
		1.01
29 100	17 800	0.64
6 550	4 000	1.52
		1.46
32 500	20 400	0.68
		1.76
7 350	4 600	1.68
		1.57

# UC2

## Ball bearings Set screw type



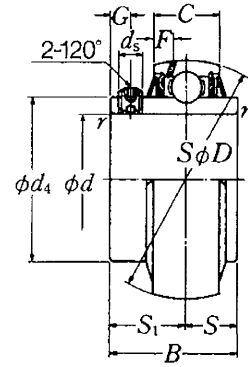
Shaft dia.	Bearing (1) number	Nominal dimensions											
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	<i>r</i> min.	mm	inch	<i>S</i>	<i>S</i> <sub>1</sub>	<i>G</i>	<i>d</i> <sub>s</sub>	<i>d</i> <sub>4</sub>
50	<b>UC210D1</b>	50	90	51.6	24	1.5	19	32.6	9	M8×1	62.4	5.9	
1 <sup>13</sup> / <sub>16</sub>	<b>UC210-113D1</b>	1.8125											
1 <sup>7</sup> / <sub>8</sub>	<b>UC210-114D1</b>	1.8750	3.5433	2.0315	0.9449	0.059	0.748	1.283	0.354	5/16-24UNF	2.4567	0.232	
1 <sup>15</sup> / <sub>16</sub>	<b>UC210-115D1</b>	1.9375											
2	<b>UC210-200D1</b>	2.0000											
55	<b>UC211D1</b>	55	100	55.6	25	2	22.2	33.4	9	M8×1	69	6.0	
2	<b>UC211-200D1</b>	2.0000											
2 <sup>1</sup> / <sub>16</sub>	<b>UC211-201D1</b>	2.0625	3.9370	2.1890	0.9843	0.079	0.874	1.315	0.354	5/16-24UNF	2.7165	0.236	
2 <sup>1</sup> / <sub>8</sub>	<b>UC211-202D1</b>	2.1250											
2 <sup>3</sup> / <sub>16</sub>	<b>UC211-203D1</b>	2.1875											
60	<b>UC212D1</b>	60	110	65.1	27	2	25.4	39.7	10	M10×1.25	77	6.2	
2 <sup>1</sup> / <sub>4</sub>	<b>UC212-204D1</b>	2.2500											
2 <sup>5</sup> / <sub>16</sub>	<b>UC212-205D1</b>	2.3125	4.3307	2.5630	1.0630	0.079	1.000	1.563	0.394	3/8-24UNF	3.0315	0.244	
2 <sup>3</sup> / <sub>8</sub>	<b>UC212-206D1</b>	2.3750											
2 <sup>7</sup> / <sub>16</sub>	<b>UC212-207D1</b>	2.4375											
65	<b>UC213D1</b>	65	120	65.1	32	2	25.4	39.7	10	M10×1.25	82.5	8.7	
2 <sup>1</sup> / <sub>2</sub>	<b>UC213-208D1</b>	2.5000	4.7244	2.5630	1.2598	0.079	1.000	1.563	0.394	3/8-24UNF	3.2480	0.343	
2 <sup>9</sup> / <sub>16</sub>	<b>UC213-209D1</b>	2.5625											
70	<b>UC214D1</b>	70	125	74.6	33	2	30.2	44.4	12	M10×1.25	87	8.8	
2 <sup>5</sup> / <sub>8</sub>	<b>UC214-210D1</b>	2.6250											
2 <sup>11</sup> / <sub>16</sub>	<b>UC214-211D1</b>	2.6875	4.9213	2.9370	1.2992	0.079	1.189	1.748	0.472	3/8-24UNF	3.4252	0.346	
2 <sup>3</sup> / <sub>4</sub>	<b>UC214-212D1</b>	2.7500											
75	<b>UC215D1</b>	75	130	77.8	34	2	33.3	44.5	12	M10×1.25	93	9.0	
2 <sup>13</sup> / <sub>16</sub>	<b>UC215-213D1</b>	2.8125											
2 <sup>7</sup> / <sub>8</sub>	<b>UC215-214D1</b>	2.8750	5.1181	3.0630	1.3386	0.079	1.311	1.752	0.472	3/8-24UNF	3.6614	0.354	
2 <sup>15</sup> / <sub>16</sub>	<b>UC215-215D1</b>	2.9375											
3	<b>UC215-300D1</b>	3.0000											
80	<b>UC216D1</b>	80	140	82.6	35	2.5	33.3	49.3	12	M10×1.25	98.1	9.5	
3 <sup>1</sup> / <sub>16</sub>	<b>UC216-301D1</b>	3.0625											
3 <sup>1</sup> / <sub>8</sub>	<b>UC216-302D1</b>	3.1250	5.5118	3.2520	1.3780	0.098	1.311	1.941	0.472	3/8-24UNF	3.8622	0.374	
3 <sup>3</sup> / <sub>16</sub>	<b>UC216-303D1</b>	3.1875											

Note (1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

<b>Basic load ratings</b>		<b>Mass</b>
N lbf dynamic $C_r$	static $C_{0r}$	kg lb
35 000	23 200	0.78 2.03
7 900	5 200	1.92 1.81 1.69
43 500	29 200	1.04 2.71
9 750	6 550	2.60 2.46 2.34
52 500	36 000	1.46 3.66
11 800	8 150	3.50 3.33 3.17
57 500	40 000	1.86 4.26
12 900	9 000	4.09
62 000	44 000	2.10 5.09
14 000	9 900	4.87 4.65
66 000	49 500	2.34 5.73
14 900	11 100	5.49 5.25 4.98
72 500	53 000	2.78 6.57
16 300	11 900	6.28 6.00

# UC2

## Ball bearings Set screw type



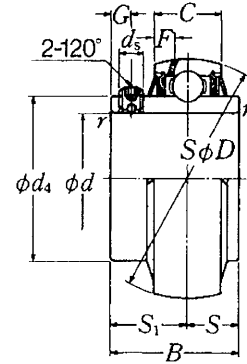
Shaft dia. mm inch	Bearing (1) number	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	<i>r</i> min.	mm inch		<i>G</i>	<i>d<sub>s</sub></i>	<i>d<sub>4</sub></i>	<i>F</i>
							<i>S</i>	<i>S<sub>1</sub></i>				
85	<b>UC217D1</b>	85	150	85.7	36	2.5	34.1	51.6	12	M12×1.5	106.4	10.1
3 1/4	<b>UC217-304D1</b>	3.2500										
3 5/16	<b>UC217-305D1</b>	3.3125	5.9055	3.3740	1.4173	0.098	1.343	2.031	0.472	1/2-20UNF	4.1890	0.398
3 7/16	<b>UC217-307D1</b>	3.4375										
90	<b>UC218D1</b>	90	160	96	37	2.5	39.7	56.3	12	M12×1.5	111.6	9.8
3 1/2	<b>UC218-308D1</b>	3.5000	6.2992	3.7795	1.4567	0.098	1.563	2.217	0.472	1/2-20UNF	4.3937	0.386

Note (1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

<b>Basic load ratings</b>		<b>Mass</b>
N lbf dynamic $C_r$	static $C_{0r}$	kg lb
83 500	64 000	3.54
		7.92
18 700	14 300	7.60
		6.97
96 000	71 500	4.40
21 600	16 100	9.88

# UC3

## Ball bearings Set screw type



Shaft dia. mm inch	Bearing <sup>(1)</sup> number	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	<i>r</i> min.	<i>S</i>	<i>S</i> <sub>1</sub>	<i>G</i>	<i>d</i> <sub>s</sub>	<i>d</i> <sub>4</sub>	<i>F</i>
25	<b>UC305D1</b>	25	62	38	20	1.5	15	23	6	M6×0.75	36.8	5.0
<sup>13</sup> / <sub>16</sub>	<b>UC305-013D1</b>	0.8125										
<sup>7</sup> / <sub>8</sub>	<b>UC305-014D1</b>	0.8750	2.4409	1.4961	0.7874	0.059	0.591	0.906	0.236	<sup>1</sup> / <sub>4</sub> -28UNF	1.4488	0.197
<sup>15</sup> / <sub>16</sub>	<b>UC305-015D1</b>	0.9375										
1	<b>UC305-100D1</b>	1.0000										
30	<b>UC306D1</b>	30	72	43	23	1.5	17	26	6	M6×0.75	44.9	5.9
<sup>1</sup> / <sub>16</sub>	<b>UC306-101D1</b>	1.0625										
<sup>1</sup> / <sub>8</sub>	<b>UC306-102D1</b>	1.1250	2.8346	1.6929	0.9055	0.059	0.669	1.024	0.236	<sup>1</sup> / <sub>4</sub> -28UNF	1.7677	0.232
<sup>3</sup> / <sub>16</sub>	<b>UC306-103D1</b>	1.1875										
35	<b>UC307D1</b>	35	80	48	25	2	19	29	8	M8×1	49.4	6.8
<sup>1</sup> / <sub>4</sub>	<b>UC307-104D1</b>	1.2500										
<sup>5</sup> / <sub>16</sub>	<b>UC307-105D1</b>	1.3125	3.1496	1.8898	0.9843	0.079	0.748	1.142	0.315	<sup>5</sup> / <sub>16</sub> -24UNF	1.9449	0.268
<sup>3</sup> / <sub>8</sub>	<b>UC307-106D1</b>	1.3750										
<sup>7</sup> / <sub>16</sub>	<b>UC307-107D1</b>	1.4375										
40	<b>UC308D1</b>	40	90	52	27	2	19	33	10	M10×1.25	56	7.4
<sup>1</sup> / <sub>2</sub>	<b>UC308-108D1</b>	1.5000	3.5433	2.0472	1.0630	0.079	0.748	1.299	0.394	<sup>3</sup> / <sub>8</sub> -24UNF	2.2047	0.291
<sup>9</sup> / <sub>16</sub>	<b>UC308-109D1</b>	1.5625										
45	<b>UC309D1</b>	45	100	57	29	2	22	35	10	M10×1.25	63.5	7.4
<sup>5</sup> / <sub>8</sub>	<b>UC309-110D1</b>	1.6250										
<sup>11</sup> / <sub>16</sub>	<b>UC309-111D1</b>	1.6875	3.9370	2.2441	1.1417	0.079	0.866	1.378	0.394	<sup>3</sup> / <sub>8</sub> -24UNF	2.5000	0.291
<sup>3</sup> / <sub>4</sub>	<b>UC309-112D1</b>	1.7500										
50	<b>UC310D1</b>	50	110	61	32	2.5	22	39	12	M12×1.5	70.6	8.1
<sup>13</sup> / <sub>16</sub>	<b>UC310-113D1</b>	1.8125										
<sup>7</sup> / <sub>8</sub>	<b>UC310-114D1</b>	1.8750	4.3307	2.4016	1.2598	0.098	0.866	1.535	0.472	<sup>1</sup> / <sub>2</sub> -20UNF	2.7795	0.319
<sup>15</sup> / <sub>16</sub>	<b>UC310-115D1</b>	1.9375										

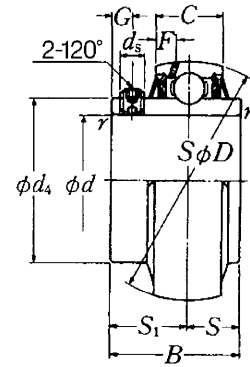
Note <sup>(1)</sup> These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

<b>Basic load ratings</b>		<b>Mass</b>
N lbf dynamic $C_r$	static $C_{0r}$	kg lb
21 200	10 900	0.35
		0.88
4 750	2 460	0.84
		0.79
		0.77
26 700	15 000	0.56
		1.34
6 000	3 400	1.28
		1.23
33 500	19 100	0.70
		1.70
7 500	4 300	1.63
		1.57
		1.50
40 500	24 000	0.96
		2.23
9 150	5 400	2.14
53 000	32 000	1.28
		3.06
11 900	7 200	2.98
		2.87
62 000	38 500	1.68
		3.95
13 900	8 600	3.84
		3.70



# UC3

## Ball bearings Set screw type



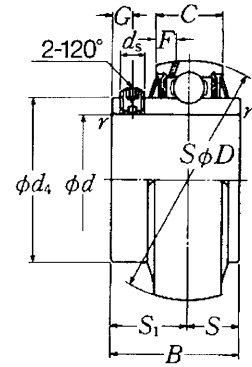
Shaft dia. mm inch	Bearing (1) number	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	<i>r</i> min.	<i>S</i>	<i>S</i> <sub>1</sub>	<i>G</i>	<i>d</i> <sub>s</sub>	<i>d</i> <sub>4</sub>	<i>F</i>
55	<b>UC311D1</b>	55	120	66	34	2.5	25	41	12	M12×1.5	76.6	8.5
2	<b>UC311-200D1</b>	2.0000										
2 1/16	<b>UC311-201D1</b>	2.0625	4.7244	2.5984	1.3386	0.098	0.984	1.614	0.472	1/2-20UNF	3.0157	0.335
2 1/8	<b>UC311-202D1</b>	2.1250										
2 3/16	<b>UC311-203D1</b>	2.1875										
60	<b>UC312D1</b>	60	130	71	36	2.5	26	45	12	M12×1.5	82.7	9.0
2 1/4	<b>UC312-204D1</b>	2.2500										
2 5/16	<b>UC312-205D1</b>	2.3125	5.1181	2.7953	1.4173	0.098	1.024	1.772	0.472	1/2-20UNF	3.2559	0.354
2 3/8	<b>UC312-206D1</b>	2.3750										
2 7/16	<b>UC312-207D1</b>	2.4375										
65	<b>UC313D1</b>	65	140	75	39	2.5	30	45	12	M12×1.5	88.2	10.1
2 1/2	<b>UC313-208D1</b>	2.5000	5.5118	2.9528	1.5354	0.098	1.181	1.772	0.472	1/2-20UNF	3.4724	0.398
2 9/16	<b>UC313-209D1</b>	2.5625										
70	<b>UC314D1</b>	70	150	78	41	2.5	33	45	12	M12×1.5	94.8	10.5
2 5/8	<b>UC314-210D1</b>	2.6250										
2 11/16	<b>UC314-211D1</b>	2.6875	5.9055	3.0709	1.6142	0.098	1.299	1.772	0.472	1/2-20UNF	3.7323	0.413
2 3/4	<b>UC314-212D1</b>	2.7500										
75	<b>UC315D1</b>	75	160	82	43	2.5	32	50	14	M14×1.5	101.3	11.0
2 13/16	<b>UC315-213D1</b>	2.8125										
2 7/8	<b>UC315-214D1</b>	2.8750	6.2992	3.2283	1.6929	0.098	1.260	1.969	0.551	9/16-18UNF	3.9882	0.433
2 15/16	<b>UC315-215D1</b>	2.9375										
3	<b>UC315-300D1</b>	3.0000										
80	<b>UC316D1</b>	80	170	86	45	2.5	34	52	14	M14×1.5	107.9	11.4
3 1/16	<b>UC316-301D1</b>	3.0625										
3 1/8	<b>UC316-302D1</b>	3.1250	6.6929	3.3858	1.7717	0.098	1.339	2.047	0.551	9/16-18UNF	4.2480	0.449
3 3/16	<b>UC316-303D1</b>	3.1875										

Note (1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

<b>Basic load ratings</b>		<b>Mass</b>
N lbf dynamic $C_r$	static $C_{0r}$	kg lb
71 500	45 000	2.08 4.96
16 100	10 100	4.81 4.67 4.50
82 000	52 000	2.60 6.06
18 400	11 700	5.89 5.68 5.51
92 500	60 000	3.25 7.36
20 800	13 400	7.14
104 000	68 000	3.86 9.06
23 400	15 300	8.82 8.60
113 000	77 000	4.70 11.0
25 500	17 400	10.7 10.5 10.2
123 000	86 500	5.60 12.6
27 600	19 500	12.3 12.1

# UC3

## Ball bearings Set screw type



Shaft dia.	Bearing (1) number	Nominal dimensions										
		<i>d</i>	<i>D</i>	<i>B</i>	<i>C</i>	<i>r</i> min.	mm inch		<i>G</i>	<i>d<sub>s</sub></i>	<i>d<sub>4</sub></i>	<i>F</i>
85	<b>UC317D1</b>	85	180	96	47	3	40	56	16	M16×1.5	114.4	12.0
3 1/4	<b>UC317-304D1</b>	3.2500										
3 5/16	<b>UC317-305D1</b>	3.3125	7.0866	3.7795	1.8504	0.118	1.575	2.205	0.630	5/8-18UNF	4.5039	0.472
3 7/16	<b>UC317-307D1</b>	3.4375										
90	<b>UC318D1</b>	90	190	96	49	3	40	56	16	M16×1.5	120.9	12.3
3 7/16	<b>UC318-307D1</b>	3.4375										
3 1/2	<b>UC318-308D1</b>	3.5000	7.4803	3.7795	1.9291	0.118	1.575	2.205	0.630	5/8-18UNF	4.7598	0.484
95	<b>UC319D1</b>	95	200	103	51	3	41	62	16	M16×1.5	127.5	12.8
3 5/8	<b>UC319-310D1</b>	3.6250										
3 11/16	<b>UC319-311D1</b>	3.6875	7.8740	4.0551	2.0079	0.118	1.614	2.441	0.630	5/8-18UNF	5.0197	0.504
3 3/4	<b>UC319-312D1</b>	3.7500										
100	<b>UC320D1</b>	100	215	108	55	3	42	66	18	M18×1.5	135.6	13.5
3 13/16	<b>UC320-313D1</b>	3.8125										
3 7/8	<b>UC320-314D1</b>	3.8750	8.4646	4.2520	2.1654	0.118	1.654	2.598	0.709	5/8-18UNF	5.3386	0.531
3 15/16	<b>UC320-315D1</b>	3.9375										
4	<b>UC320-400D1</b>	4.0000										
105	<b>UC321D1</b>	105	225	112	57	3	44	68	18	M18×1.5	142.1	13.9
110	<b>UC322D1</b>	110	240	117	59	3	46	71	18	M18×1.5	151.7	13.9
120	<b>UC324D1</b>	120	260	126	63	3	51	75	18	M18×1.5	165.2	16.0
130	<b>UC326D1</b>	130	280	135	67	4	54	81	20	M20×1.5	178.3	16.9
140	<b>UC328D1</b>	140	300	145	71	4	59	86	20	M20×1.5	190.4	17.7

Note (1) These numbers indicate relubricatable type. If maintenance free type is needed, please order without suffix "D1".

<b>Basic load ratings</b>		<b>Mass</b>
N lbf dynamic $C_r$	static $C_{0r}$	kg lb
133 000	97 000	6.70 15.2
29 800	21 800	14.9 14.2
143 000	107 000	7.60 17.3
32 000	24 100	16.9
153 000	119 000	8.70 19.9
34 500	26 600	19.5 19.1
173 000	141 000	10.8 24.7
39 000	31 500	24.2 23.8 23.4
184 000	153 000	12.2
205 000	179 000	14.3
207 000	185 000	18.5
229 000	214 000	23.0
253 000	246 000	28.5