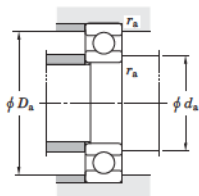
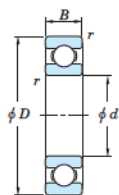


Single-row deep groove ball bearings  
open type

$d$  10 ~ (20) mm



$d$  (20) ~ (30) mm

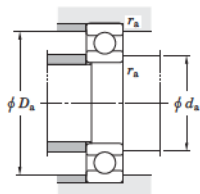
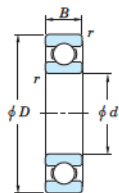
Boundary dimensions (mm)			Basic load ratings (kN)		Factor $f_0$	Limiting speeds (min <sup>-1</sup> )		Bearing No.	Mounting dimensions (mm)			(Refer.) Mass (kg)	
$d$	$D$	$B$	$C_r$	$C_{0r}$		Grease lub.	Oil lub.		$d_a$ min.	$D_a$ max.	$r_a$ max.		
<b>10</b>	19	5	0.3	1.70	0.84	14.8	37 000	43 000	<b>6800</b>	12	17	0.3	0.005
	22	6	0.3	2.70	1.25	14.0	34 000	41 000	<b>6900</b>	12	20	0.3	0.010
	26	8	0.3	4.55	1.95	12.3	31 000	36 000	<b>6000</b>	12	24	0.3	0.019
	30	9	0.6	5.10	2.40	13.2	24 000	29 000	<b>6200</b>	14	26	0.6	0.032
	35	11	0.6	8.10	3.45	11.2	22 000	27 000	<b>6300</b>	14	31	0.6	0.053
<b>12</b>	21	5	0.3	1.90	1.05	15.3	33 000	39 000	<b>6801</b>	14	19	0.3	0.006
	24	6	0.3	2.90	1.45	14.5	31 000	36 000	<b>6901</b>	14	22	0.3	0.011
	28	7	0.3	5.10	2.40	13.2	27 000	32 000	<b>16001</b>	14	26	0.3	0.024
	28	8	0.3	5.10	2.40	13.2	27 000	32 000	<b>6001</b>	14	26	0.3	0.022
	32	10	0.6	6.80	3.05	12.3	22 000	27 000	<b>6201</b>	16	28	0.6	0.037
37	12	1	9.70	4.20	11.1	20 000	25 000	<b>6301</b>	17	32	1	0.060	
<b>15</b>	24	5	0.3	2.10	1.25	15.8	28 000	33 000	<b>6802</b>	17	22	0.3	0.007
	28	7	0.3	4.30	2.25	14.3	26 000	30 000	<b>6902</b>	17	26	0.3	0.017
	32	8	0.3	5.60	2.85	13.9	23 000	28 000	<b>16002</b>	17	30	0.3	0.025
	32	9	0.3	5.60	2.85	13.9	23 000	27 000	<b>6002</b>	17	30	0.3	0.030
	35	11	0.6	7.65	3.75	13.2	20 000	24 000	<b>6202</b>	19	31	0.6	0.045
42	13	1	11.4	5.45	12.3	17 000	20 000	<b>6302</b>	20	37	1	0.082	
<b>17</b>	26	5	0.3	2.60	1.55	15.7	26 000	30 000	<b>6803</b>	19	24	0.3	0.008
	30	7	0.3	4.60	2.55	14.7	23 000	28 000	<b>6903</b>	19	28	0.3	0.018
	35	8	0.3	6.00	3.25	14.4	21 000	25 000	<b>16003</b>	19	33	0.3	0.032
	35	10	0.3	6.00	3.25	14.4	21 000	25 000	<b>6003</b>	19	33	0.3	0.039
	40	12	0.6	9.55	4.80	13.2	17 000	21 000	<b>6203</b>	21	36	0.6	0.065
	47	14	1	13.6	6.65	12.4	15 000	18 000	<b>6303</b>	22	42	1	0.115
	47	14	1	15.6	7.60	12.0	15 000	18 000	<b>6303R</b>	22	42	1	0.121
62	17	1.1	20.7	9.85	11.6	13 000	15 000	<b>6403</b>	23.5	55.5	1	0.270	
<b>20</b>	32	7	0.3	4.00	2.45	15.5	21 000	25 000	<b>6804</b>	22	30	0.3	0.018
	37	9	0.3	6.35	3.70	14.7	19 000	23 000	<b>6904</b>	22	35	0.3	0.036
	42	8	0.3	7.95	4.50	14.4	17 000	21 000	<b>16004</b>	22	40	0.3	0.050

[Remark] Standard cage types used for the above bearings are described earlier in this section.

Boundary dimensions (mm)			Basic load ratings (kN)		Factor $f_0$	Limiting speeds (min <sup>-1</sup> )		Bearing No.	Mounting dimensions (mm)			(Refer.) Mass (kg)	
$d$	$D$	$B$	$C_r$	$C_{0r}$		Grease lub.	Oil lub.		$d_a$ min.	$D_a$ max.	$r_a$ max.		
<b>20</b>	42	12	0.6	9.40	5.05	13.9	17 000	21 000	<b>6004</b>	24	38	0.6	0.069
	42	12	0.6	11.5	5.85	13.0	18 000	21 000	<b>6004R</b>	24	38	0.6	0.073
	47	14	1	12.8	6.65	13.2	15 000	17 000	<b>6204</b>	25	42	1	0.106
	47	14	1	15.6	7.60	12.0	15 000	18 000	<b>6204R</b>	25	42	1	0.114
	52	15	1.1	15.9	7.85	12.3	14 000	17 000	<b>6304</b>	26.5	45.5	1	0.144
	52	15	1.1	18.1	8.95	12.0	14 000	16 000	<b>6304R</b>	26.5	45.5	1	0.151
	72	19	1.1	31.0	15.2	11.1	11 000	13 000	<b>6404</b>	26.5	65.5	1	0.400
<b>22</b>	44	12	0.6	9.40	5.15	14.1	17 000	20 000	<b>60/22</b>	26	40	0.6	0.073
	50	14	1	12.8	6.65	13.2	15 000	17 000	<b>62/22</b>	27	45	1	0.118
	56	16	1.1	18.5	9.40	12.6	13 000	15 000	<b>63/22</b>	28.5	49.5	1	0.201
<b>25</b>	37	7	0.3	4.30	2.95	16.0	18 000	21 000	<b>6805</b>	27	35	0.3	0.022
	42	9	0.3	7.00	4.55	15.4	16 000	19 000	<b>6905</b>	27	40	0.3	0.041
	47	8	0.3	8.85	5.60	15.1	15 000	18 000	<b>16005</b>	27	45	0.3	0.060
	47	12	0.6	10.1	5.85	14.5	15 000	18 000	<b>6005</b>	29	43	0.6	0.080
	52	15	1	14.0	7.85	13.9	13 000	15 000	<b>6205</b>	30	47	1	0.128
	52	15	1	17.6	9.30	12.8	13 000	16 000	<b>6205R</b>	30	47	1	0.138
	62	17	1.1	20.6	11.3	13.2	11 000	13 000	<b>6305</b>	31.5	55.5	1	0.232
	62	17	1.1	26.2	13.4	11.9	11 000	14 000	<b>6305R</b>	31.5	55.5	1	0.255
80	21	1.5	36.1	19.4	12.2	9 100	11 000	<b>6405</b>	33	72	1.5	0.530	
<b>28</b>	52	12	0.6	12.4	7.40	14.5	14 000	16 000	<b>60/28</b>	32	48	0.6	0.097
	58	16	1	17.9	9.75	13.4	12 000	14 000	<b>62/28</b>	33	53	1	0.173
	68	18	1.1	23.5	13.1	13.3	10 000	12 000	<b>63/28</b>	34.5	61.5	1	0.328
<b>30</b>	42	7	0.3	4.55	3.40	16.4	15 000	18 000	<b>6806</b>	32	40	0.3	0.026
	47	9	0.3	7.25	5.00	15.8	14 000	17 000	<b>6906</b>	32	45	0.3	0.045
	55	9	0.3	11.2	7.35	15.2	13 000	15 000	<b>16006</b>	32	53	0.3	0.085
	55	13	1	13.2	8.25	14.7	13 000	15 000	<b>6006</b>	35	50	1	0.116
	62	16	1	19.5	11.3	13.9	11 000	13 000	<b>6206</b>	35	57	1	0.199
62	16	1	23.4	12.8	13.0	11 000	13 000	<b>6206R</b>	35	57	1	0.212	

Single-row deep groove ball bearings  
open type

d (30) ~ (45) mm



Boundary dimensions (mm)	Basic load ratings (kN)		Factor $f_0$	Limiting speeds (min <sup>-1</sup> )		Bearing No.	Mounting dimensions (mm)			(Refer.) Mass (kg)			
	d	D		B	r min.		$C_r$	$C_{0r}$	Grease lub.		Oil lub.	$d_a$ min.	$D_a$ max.
30	72	19	1.1	26.7	15.0	13.3	9 600	12 000	6306	36.5	65.5	1	0.346
	72	19	1.1	33.4	17.7	12.0	9 800	12 000	6306R	36.5	65.5	1	0.379
	90	23	1.5	43.4	23.9	12.3	8 100	9 700	6406	38	82	1.5	0.735
32	58	13	1	15.0	9.15	14.5	12 000	14 000	60/32	37	53	1	0.127
	65	17	1	23.5	13.1	13.3	10 000	12 000	62/32	37	60	1	0.228
	75	20	1.1	30.1	16.2	12.7	9 300	11 000	63/32	38.5	68.5	1	0.437
35	47	7	0.3	4.75	3.85	16.5	13 000	16 000	6807	37	45	0.3	0.030
	55	10	0.6	10.9	7.75	15.7	12 000	14 000	6907	39	51	0.6	0.073
	62	9	0.3	12.2	8.85	15.7	11 000	13 000	16007	37	60	0.3	0.110
	62	14	1	15.9	10.3	14.9	11 000	13 000	6007	40	58	1	0.155
	72	17	1.1	25.7	15.4	13.9	9 200	11 000	6207	41.5	65.5	1	0.288
	72	17	1.1	31.0	17.5	12.9	9 300	11 000	6207R	41.5	65.5	1	0.309
40	80	21	1.5	33.4	19.3	13.2	8 500	10 000	6307	43	72	1.5	0.457
	80	21	1.5	40.0	21.7	12.1	8 700	10 000	6307R	43	72	1.5	0.494
	100	25	1.5	55.0	31.0	12.2	7 200	8 600	6407	43	92	1.5	0.952
	52	7	0.3	4.95	4.20	16.3	12 000	14 000	6808	42	50	0.3	0.033
	62	12	0.6	13.7	9.95	15.6	11 000	13 000	6908	44	58	0.6	0.112
45	68	9	0.3	12.6	9.65	16.0	9 800	12 000	16008	42	66	0.3	0.125
	68	15	1	16.7	11.5	15.2	10 000	12 000	6008	45	63	1	0.192
	80	18	1.1	29.1	17.8	14.0	8 300	10 000	6208	46.5	73.5	1	0.366
	90	23	1.5	40.7	24.0	13.2	7 700	9 200	6308	48	82	1.5	0.633
	110	27	2	63.7	36.6	12.3	6 600	7 900	6408	49	101	2	1.23
	58	7	0.3	6.20	5.40	16.3	11 000	13 000	6809	47	56	0.3	0.040
	68	12	0.6	14.1	10.9	15.9	9 700	11 000	6909	49	64	0.6	0.132
45	75	10	0.6	15.5	12.3	16.0	8 900	10 000	16009	49	71	0.6	0.170
	75	16	1	21.0	15.1	15.3	9 200	11 000	6009	50	70	1	0.245
	85	19	1.1	32.7	20.3	14.0	7 700	9 200	6209	51.5	78.5	1	0.407
	100	25	1.5	48.9	29.5	13.3	6 800	8 100	6309	53	92	1.5	0.833

[Remark] Standard cage types used for the above bearings are described earlier in this section.

B 10

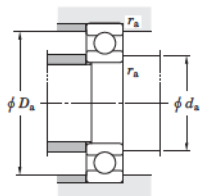
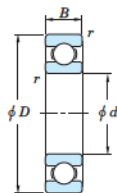
d (45) ~ (65) mm

Boundary dimensions (mm)	Basic load ratings (kN)		Factor $f_0$	Limiting speeds (min <sup>-1</sup> )		Bearing No.	Mounting dimensions (mm)			(Refer.) Mass (kg)			
	d	D		B	r min.		$C_r$	$C_{0r}$	Grease lub.		Oil lub.	$d_a$ min.	$D_a$ max.
45	120	29	2	77.2	45.1	12.2	6 000	7 200	6409	54	111	2	1.53
	50	65	7	0.3	6.60	6.10	16.1	9 600	11 000	6810	52	63	0.3
72		12	0.6	14.5	11.7	16.1	9 000	11 000	6910	54	68	0.6	0.133
80		10	0.6	16.0	13.3	16.2	8 200	9 700	16010	54	76	0.6	0.180
80		16	1	21.8	16.6	15.6	8 400	9 900	6010	55	75	1	0.261
90		20	1.1	35.1	23.3	14.4	7 100	8 500	6210	56.5	83.5	1	0.463
90		20	1.1	40.4	25.5	13.9	7 100	8 600	6210R	56.5	83.5	1	0.487
110		27	2	62.0	38.3	13.2	6 100	7 300	6310	59	101	2	1.07
130	31	2.1	83.0	49.5	12.5	5 500	6 600	6410	61	119	2	1.88	
55	72	9	0.3	8.80	8.10	16.2	8 700	10 000	6811	57	70	0.3	0.083
	80	13	1	16.6	14.1	16.2	8 100	9 600	6911	60	75	1	0.185
	90	11	0.6	19.3	16.3	16.2	7 400	8 800	16011	59	86	0.6	0.260
	90	18	1.1	28.3	21.2	15.3	7 600	8 900	6011	61.5	83.5	1	0.385
	100	21	1.5	43.4	29.4	14.4	6 300	7 600	6211	63	92	1.5	0.607
60	120	29	2	71.6	45.0	13.2	5 600	6 700	6311	64	111	2	1.37
	140	33	2.1	100	62.3	12.2	5 000	6 000	6411	66	129	2	2.29
	78	10	0.3	11.5	10.6	16.3	8 000	9 400	6812	62	76	0.3	0.104
	85	13	1	20.2	17.3	16.2	7 500	8 900	6912	65	80	1	0.192
65	95	11	0.6	19.8	17.6	16.4	6 900	8 100	16012	64	91	0.6	0.280
	95	18	1.1	29.4	23.2	15.6	7 100	8 400	6012	66.5	88.5	1	0.415
	110	22	1.5	52.4	36.2	14.4	5 700	6 900	6212	68	102	1.5	0.783
	130	31	2.1	81.9	52.2	13.2	5 200	6 200	6312	71	119	2	1.70
	150	35	2.1	110	70.8	12.4	4 600	5 500	6412	71	139	2	2.77
	85	10	0.6	11.9	11.5	16.2	7 300	8 600	6813	69	81	0.6	0.126
	90	13	1	17.4	16.1	16.6	7 100	8 400	6913	70	85	1	0.211
65	100	11	0.6	17.1	16.0	16.5	6 600	7 800	16013	69	96	0.6	0.300
	100	18	1.1	30.5	25.2	15.8	6 600	7 800	6013	71.5	93.5	1	0.435

B 11

Single-row deep groove ball bearings  
open type

$d$  (65) ~ (85) mm



$d$  (85) ~ 105 mm

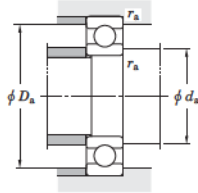
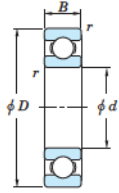
Boundary dimensions (mm)	Basic load ratings (kN)			Factor $f_0$	Limiting speeds (min <sup>-1</sup> )		Bearing No.	Mounting dimensions (mm)			(Refer.) Mass (kg)		
	$d$	$D$	$B$		$C_r$	$C_{0r}$		Grease lub.	Oil lub.	$d_a$ min.		$D_a$ max.	$r_a$ max.
<b>65</b>	120	23	1.5	57.2	40.1	14.4	5 400	6 400	<b>6213</b>	73	112	1.5	0.990
	140	33	2.1	92.7	59.9	13.2	4 800	5 800	<b>6313</b>	76	129	2	2.08
	160	37	2.1	118	79.2	12.4	4 300	5 200	<b>6413</b>	76	149	2	3.30
<b>70</b>	90	10	0.6	12.1	11.9	16.1	6 800	8 100	<b>6814</b>	74	86	0.6	0.134
	100	16	1	23.7	21.2	16.3	6 400	7 600	<b>6914</b>	75	95	1	0.342
	110	13	0.6	30.1	25.6	16.0	6 100	7 200	<b>16014</b>	74	106	0.6	0.433
	110	20	1.1	38.1	30.9	15.6	6 100	7 200	<b>6014</b>	76.5	103.5	1	0.602
	125	24	1.5	62.2	44.1	14.5	5 100	6 100	<b>6214</b>	78	117	1.5	1.07
	150	35	2.1	104	68.2	13.2	4 500	5 400	<b>6314</b>	81	139	2	2.52
180	42	3	144	104	12.2	3 900	4 600	<b>6414</b>	83	167	2.5	4.83	
<b>75</b>	95	10	0.6	12.5	12.9	16.0	6 400	7 600	<b>6815</b>	79	91	0.6	0.142
	105	16	1	24.4	22.6	16.5	6 100	7 200	<b>6915</b>	80	100	1	0.363
	115	13	0.6	27.5	25.3	16.4	5 700	6 700	<b>16015</b>	79	111	0.6	0.457
	115	20	1.1	39.6	33.5	15.8	5 700	6 800	<b>6015</b>	81.5	108.5	1	0.638
	130	25	1.5	67.4	48.3	14.5	4 800	5 800	<b>6215</b>	83	122	1.5	1.18
	160	37	2.1	113	77.2	13.2	4 200	5 000	<b>6315</b>	86	149	2	3.02
190	45	3	154	115	12.3	3 600	4 400	<b>6415</b>	88	177	2.5	5.87	
<b>80</b>	100	10	0.6	12.7	13.3	16.0	6 100	7 200	<b>6816</b>	84	96	0.6	0.150
	110	16	1	25.0	24.0	16.6	5 700	6 800	<b>6916</b>	85	105	1	0.382
	125	14	0.6	31.7	29.7	16.4	5 200	6 100	<b>16016</b>	84	121	0.6	0.597
	125	22	1.1	47.6	39.8	15.6	5 300	6 300	<b>6016</b>	86.5	118.5	1	0.850
	140	26	2	72.7	53.0	14.6	4 500	5 400	<b>6216</b>	89	131	2	1.40
	170	39	2.1	123	86.7	13.3	3 900	4 700	<b>6316</b>	91	159	2	3.59
200	48	3	164	125	12.3	3 400	4 100	<b>6416</b>	93	187	2.5	6.84	
<b>85</b>	110	13	1	18.7	19.0	16.2	5 600	6 600	<b>6817</b>	90	105	1	0.266
	120	18	1.1	31.9	29.6	16.4	5 300	6 300	<b>6917</b>	91.5	113.5	1	0.535
	130	14	0.6	32.6	31.7	16.5	4 900	5 800	<b>16017</b>	89	126	0.6	0.626

[Remark] Standard cage types used for the above bearings are described earlier in this section.

Boundary dimensions (mm)	Basic load ratings (kN)			Factor $f_0$	Limiting speeds (min <sup>-1</sup> )		Bearing No.	Mounting dimensions (mm)			(Refer.) Mass (kg)		
	$d$	$D$	$B$		$C_r$	$C_{0r}$		Grease lub.	Oil lub.	$d_a$ min.		$D_a$ max.	$r_a$ max.
<b>85</b>	130	22	1.1	49.5	43.1	15.8	5 000	5 900	<b>6017</b>	91.5	123.5	1	0.890
	150	28	2	84.0	61.9	14.5	4 200	5 000	<b>6217</b>	94	141	2	1.79
	180	41	3	133	96.8	13.3	3 700	4 400	<b>6317</b>	98	167	2.5	4.23
	210	52	4	173	136	12.3	3 300	3 900	<b>6417</b>	101	194	3	8.07
<b>90</b>	115	13	1	19.0	19.7	16.1	5 300	6 300	<b>6818</b>	95	110	1	0.279
	125	18	1.1	32.8	31.6	16.5	5 100	6 000	<b>6918</b>	96.5	118.5	1	0.565
	140	16	1	39.9	37.0	16.3	4 700	5 600	<b>16018</b>	95	135	1	0.848
	140	24	1.5	58.2	49.7	15.6	4 700	5 600	<b>6018</b>	98	132	1.5	1.16
	160	30	2	96.1	71.5	14.5	3 900	4 700	<b>6218</b>	99	151	2	2.15
	190	43	3	143	107	13.3	3 500	4 200	<b>6318</b>	103	177	2.5	4.91
225	54	4	184	149	12.5	3 100	3 700	<b>6418</b>	106	209	3	9.78	
<b>95</b>	130	18	1.1	33.7	33.5	16.6	4 800	5 700	<b>6919</b>	101.5	123.5	1	0.705
	145	16	1	41.2	39.6	16.4	4 500	5 300	<b>16019</b>	100	140	1	0.885
	145	24	1.5	60.4	53.9	15.8	4 400	5 200	<b>6019</b>	103	137	1.5	1.21
	170	32	2.1	109	81.9	14.4	3 700	4 400	<b>6219</b>	106	159	2	2.62
200	45	3	153	119	13.3	3 300	4 000	<b>6319</b>	108	187	2.5	5.67	
<b>100</b>	125	13	1	19.6	21.2	16.0	4 800	5 700	<b>6820</b>	105	120	1	0.309
	140	20	1.1	45.0	41.9	16.2	4 500	5 300	<b>6920</b>	106.5	133.5	1	0.960
	150	16	1	42.4	42.1	16.5	4 300	5 100	<b>16020</b>	105	145	1	0.910
	150	24	1.5	60.2	54.2	15.9	4 300	5 100	<b>6020</b>	108	142	1.5	1.25
	180	34	2.1	122	93.1	14.4	3 500	4 200	<b>6220</b>	111	169	2	3.14
	215	47	3	173	141	13.2	3 000	3 600	<b>6320</b>	113	202	2.5	7.00
<b>105</b>	145	20	1.1	46.5	44.8	16.4	4 300	5 100	<b>6921</b>	111.5	138.5	1	1.00
	160	18	1	41.9	42.2	16.5	4 100	4 800	<b>16021</b>	110	155	1	1.20
	160	26	2	72.3	65.8	15.8	4 000	4 700	<b>6021</b>	114	151	2	1.59
	190	36	2.1	133	105	14.4	3 300	3 900	<b>6221</b>	116	179	2	3.70
	225	49	3	184	153	13.2	2 900	3 500	<b>6321</b>	118	212	2.5	8.05

Single-row deep groove ball bearings  
open type

$d$  110 ~ (150) mm



Boundary dimensions (mm)	Basic load ratings (kN)		Factor $f_0$	Limiting speeds (min <sup>-1</sup> )		Bearing No.	Mounting dimensions (mm)			(Refer.) Mass (kg)			
	$d$	$D$		$C_r$	$C_{0r}$		Grease lub.	Oil lub.	$d_a$ min.		$D_a$ max.	$r_a$ max.	
<b>110</b>	140	16	1	28.1	30.7	16.1	4 300	5 100	<b>6822</b>	115	135	1	0.606
	150	20	1.1	47.9	47.8	16.4	4 100	4 900	<b>6922</b>	116.5	143.5	1	1.04
	170	19	1	57.5	56.7	16.3	3 800	4 500	<b>16022</b>	115	165	1	1.46
	170	28	2	82.0	73.0	15.6	3 800	4 500	<b>6022</b>	119	161	2	1.96
	200	38	2.1	144	117	14.4	3 100	3 700	<b>6222</b>	121	189	2	4.36
240	50	3	205	180	13.2	2 700	3 200	<b>6322</b>	123	227	2.5	9.54	
<b>120</b>	150	16	1	29.0	33.0	16.0	4 000	4 700	<b>6824</b>	125	145	1	0.655
	165	22	1.1	57.2	56.9	16.4	3 800	4 400	<b>6924</b>	126.5	158.5	1	1.41
	180	19	1	63.2	63.3	16.4	3 600	4 200	<b>16024</b>	125	175	1	1.80
	180	28	2	85.0	79.3	15.9	3 600	4 200	<b>6024</b>	129	171	2	2.07
	215	40	2.1	155	131	14.4	2 900	3 400	<b>6224</b>	131	204	2	5.15
260	55	3	207	185	13.5	2 500	3 000	<b>6324</b>	133	247	2.5	12.5	
<b>130</b>	165	18	1.1	36.9	41.2	16.1	3 600	4 300	<b>6826</b>	136.5	158.5	1	0.939
	180	24	1.5	65.2	67.4	16.3	3 400	4 100	<b>6926</b>	138	172	1.5	1.86
	200	22	1.1	71.3	74.8	11.2	3 000	3 600	<b>16026</b>	136.5	193.5	1	2.69
	200	33	2	106	101	15.8	3 200	3 800	<b>6026</b>	139	191	2	3.16
	230	40	3	167	146	14.5	2 700	3 200	<b>6226</b>	143	217	2.5	5.82
280	58	4	229	214	13.6	2 300	2 700	<b>6326</b>	146	264	3	15.1	
<b>140</b>	175	18	1.1	38.2	44.4	16.0	3 400	4 000	<b>6828</b>	146.5	168.5	1	1.00
	190	24	1.5	71.3	74.8	16.5	3 200	3 800	<b>6928</b>	148	182	1.5	1.98
	210	22	1.1	65.8	71.1	16.5	2 900	3 400	<b>16028</b>	146.5	203.5	1	2.86
	210	33	2	110	109	15.9	3 000	3 600	<b>6028</b>	149	201	2	3.55
	250	42	3	166	150	14.8	2 400	2 900	<b>6228</b>	153	237	2.5	7.45
300	62	4	253	246	13.6	2 100	2 500	<b>6328</b>	156	284	3	19.4	
<b>150</b>	190	20	1.1	47.8	54.9	16.1	3 100	3 700	<b>6830</b>	156.5	183.5	1	1.40
	210	28	2	93.4	94.3	16.2	2 900	3 400	<b>6930</b>	159	201	2	3.05
	225	24	1.1	91.2	99.3	16.6	2 700	3 100	<b>16030</b>	156.5	218.5	1	3.58
	225	35	2.1	125	126	16.0	2 800	3 300	<b>6030</b>	161	214	2	4.22

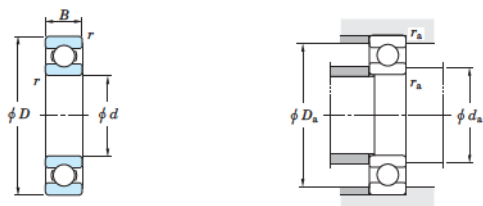
[Remark] Standard cage types used for the above bearings are described earlier in this section.

$d$  (150) ~ (200) mm

Boundary dimensions (mm)	Basic load ratings (kN)		Factor $f_0$	Limiting speeds (min <sup>-1</sup> )		Bearing No.	Mounting dimensions (mm)			(Refer.) Mass (kg)			
	$d$	$D$		$C_r$	$C_{0r}$		Grease lub.	Oil lub.	$d_a$ min.		$D_a$ max.	$r_a$ max.	
<b>150</b>	270	45	3	176	168	15.1	2 200	2 700	<b>6230</b>	163	257	2.5	9.41
	320	65	4	275	284	13.9	1 900	2 300	<b>6330</b>	166	304	3	26.2
<b>160</b>	200	20	1.1	48.4	56.9	16.1	2 900	3 400	<b>6832</b>	166.5	193.5	1	1.45
	220	28	2	96.1	101	16.4	2 700	3 200	<b>6932</b>	169	211	2	3.20
	240	25	1.5	98.8	108	16.5	2 600	3 100	<b>16032</b>	168	232	1.5	4.25
	240	38	2.1	136	135	15.9	2 600	3 000	<b>6032</b>	171	229	2	5.22
	290	48	3	185	186	15.4	2 100	2 500	<b>6232</b>	173	277	2.5	14.3
340	68	4	278	286	13.9	1 800	2 200	<b>6332</b>	176	324	3	29.0	
<b>170</b>	215	22	1.1	59.8	70.5	16.1	2 700	3 200	<b>6834</b>	176.5	208.5	1	1.90
	230	28	2	98.8	108	16.5	2 600	3 100	<b>6934</b>	179	221	2	3.35
	260	28	1.5	114	127	16.5	2 300	2 700	<b>16034</b>	178	252	1.5	5.75
	260	42	2.1	161	161	15.8	2 400	2 800	<b>6034</b>	181	249	2	6.80
	310	52	4	212	223	15.3	1 900	2 300	<b>6234</b>	186	294	3	17.5
360	72	4	326	355	13.6	1 700	2 000	<b>6334</b>	186	344	3	38.6	
<b>180</b>	225	22	1.1	60.7	73.1	16.1	2 600	3 000	<b>6836</b>	186.5	218.5	1	2.00
	250	33	2	123	129	16.3	2 400	2 800	<b>6936</b>	189	241	2	4.90
	280	31	2	135	148	16.4	2 100	2 500	<b>16036</b>	189	271	2	7.55
	280	46	2.1	182	194	15.8	2 200	2 600	<b>6036</b>	191	269	2	10.3
	320	52	4	227	241	15.1	1 800	2 200	<b>6236</b>	196	304	3	18.3
380	75	4	354	407	13.9	1 600	1 900	<b>6336</b>	196	364	3	44.7	
<b>190</b>	240	24	1.5	73.1	88.1	16.1	2 400	2 800	<b>6838</b>	198	232	1.5	2.60
	260	33	2	126	138	16.4	2 300	2 700	<b>6938</b>	199	251	2	5.20
	290	31	2	139	158	16.6	2 000	2 400	<b>16038</b>	199	281	2	7.85
	290	46	2.1	188	201	15.8	2 100	2 500	<b>6038</b>	201	279	2	10.8
	340	55	4	255	281	15.0	1 700	2 000	<b>6238</b>	206	324	3	23.0
400	78	5	355	415	14.1	1 500	1 800	<b>6338</b>	210	380	4	51.5	
<b>200</b>	250	24	1.5	78.0	93.6	16.1	2 300	2 700	<b>6840</b>	208	242	1.5	2.70

Single-row deep groove ball bearings  
open type

$d$  (200) ~ (280) mm



Boundary dimensions (mm)	Basic load ratings (kN)			Factor $f_0$	Limiting speeds (min <sup>-1</sup> )		Bearing No.	Mounting dimensions (mm)			(Refer.) Mass (kg)		
					Grease lub.	Oil lub.		$d_{a \text{ min.}}$	$D_{a \text{ max.}}$	$r_{a \text{ max.}}$			
<b>200</b>	280	38	2.1	157	168	16.2	2 100	2 500	6940	211	269	2	7.30
	310	34	2	161	180	16.4	1 900	2 300	16040	209	301	2	10.1
	310	51	2.1	217	243	15.6	1 900	2 300	6040	211	299	2	14.0
	360	58	4	269	311	15.2	1 600	1 900	6240	216	344	3	28.2
	420	80	5	411	506	14.0	1 300	1 600	6340	220	400	4	58.0
<b>220</b>	270	24	1.5	80.7	101	16.0	2 000	2 400	6844	228	262	1.5	3.00
	300	38	2.1	160	180	16.4	1 900	2 200	6944	231	289	2	7.90
	340	37	2.1	180	217	16.5	1 700	2 000	16044	231	329	2	13.2
	340	56	3	235	271	15.6	1 700	2 000	6044	233	327	2.5	18.3
	400	65	4	311	376	15.1	1 400	1 700	6244	236	384	3	37.0
460	88	5	433	539	13.8	1 200	1 500	6344	240	440	4	71.6	
<b>240</b>	300	28	2	108	135	16.1	1 800	2 100	6848	249	291	2	4.50
	320	38	2.1	164	192	16.5	1 700	2 000	6948	251	309	2	8.50
	360	37	2.1	184	228	16.5	1 600	1 800	16048	251	349	2	14.1
	360	56	3	244	296	15.9	1 600	1 900	6048	253	347	2.5	19.7
	440	72	4	340	431	15.2	1 200	1 500	6248	256	424	3	51.0
500	95	5	470	624	14.2	1 100	1 300	6348	260	480	4	93.3	
<b>260</b>	320	28	2	112	146	16.0	1 700	2 000	6852	269	311	2	4.80
	360	46	2.1	213	263	16.3	1 500	1 800	6952	271	349	2	14.4
	400	44	3	236	310	16.4	1 400	1 600	16052	273	387	2.5	21.6
	400	65	4	291	377	15.8	1 400	1 700	6052	276	384	3	29.3
	480	80	5	402	541	15.1	1 100	1 300	6252	280	460	4	68.2
540	102	6	531	741	14.2	990	1 200	6352	284	516	5	116	
<b>280</b>	350	33	2	143	183	16.1	1 500	1 800	6856	289	341	2	7.40
	380	46	2.1	219	283	16.5	1 400	1 700	6956	291	369	2	15.1
	420	44	3	242	331	14.7	1 300	1 500	16056	293	407	2.5	22.9
	420	65	4	302	408	16.0	1 300	1 500	6056	296	404	3	31.0
	500	80	5	423	599	15.3	1 000	1 200	6256	300	480	4	71.8

[Remark] Standard cage types used for the above bearings are described earlier in this section.

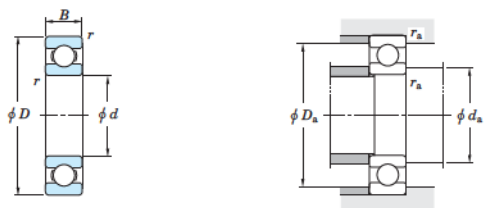
$d$  (280) ~ (380) mm

Boundary dimensions (mm)	Basic load ratings (kN)			Factor $f_0$	Limiting speeds (min <sup>-1</sup> )		Bearing No.	Mounting dimensions (mm)			(Refer.) Mass (kg)		
					Grease lub.	Oil lub.		$d_{a \text{ min.}}$	$D_{a \text{ max.}}$	$r_{a \text{ max.}}$			
<b>280</b>	580	108	6	568	845	14.5	880	1 100	6356	304	556	5	145
<b>300</b>	380	38	2.1	179	230	16.2	1 400	1 600	6860	311	369	2	10.5
	420	56	3	276	377	16.2	1 300	1 500	6960	313	407	2.5	24.1
	460	50	4	284	405	16.4	1 100	1 400	16060	316	447	3	32.2
	460	74	4	355	482	15.6	1 200	1 400	6060	316	444	3	44.0
	540	85	5	441	663	15.6	880	1 100	6260	320	520	4	89.5
620	109	7.5	593	886	14.4	810	970	6360	332	588	6	169	
<b>320</b>	400	38	2.1	182	239	16.1	1 300	1 500	6864	331	389	2	11.0
	440	56	3	285	404	16.4	1 200	1 400	6964	333	427	2.5	25.5
	480	50	4	292	432	16.5	1 100	1 300	16064	336	467	3	33.9
	480	74	4	352	487	15.7	1 100	1 300	6064	336	464	3	46.0
	580	92	5	489	744	15.4	840	1 000	6264	340	560	4	113
670	112	7.5	634	1 010	14.8	720	870	6364	352	638	6	207	
<b>340</b>	420	38	2.1	185	249	16.1	1 200	1 400	6868	351	409	2	11.5
	460	56	3	282	407	16.5	1 100	1 300	6968	353	447	2.5	26.8
	520	57	4	335	512	16.4	980	1 200	16068	356	507	3	46.8
	520	82	5	441	661	15.6	980	1 200	6068	360	500	4	61.8
	620	92	6	511	817	15.6	760	910	6268	364	596	5	131
710	118	7.5	704	1 160	14.7	660	790	6368	372	678	6	238	
<b>360</b>	440	38	2.1	192	268	16.0	1 100	1 300	6872	371	429	2	12.0
	480	56	3	289	432	16.5	1 000	1 200	6972	373	467	2.5	28.2
	540	57	4	345	546	16.5	900	1 100	16072	376	527	3	49.0
	540	82	5	438	668	15.7	920	1 100	6072	380	520	4	64.7
	650	95	6	557	904	15.4	700	840	6272	384	626	5	144
<b>380</b>	480	46	2.1	244	359	16.2	980	1 200	6876	391	469	2	20.0
	520	65	4	352	552	16.4	920	1 100	6976	396	504	3	40.8
	560	82	5	457	725	15.9	860	1 000	6076	400	540	4	67.6



Single-row deep groove ball bearings  
open type

$d$  (380) ~ 500 mm



Boundary dimensions (mm)	Basic load ratings (kN)		Factor $f_0$	Limiting speeds ( $\text{min}^{-1}$ )		Bearing No.	Mounting dimensions (mm)			(Refer.) Mass (kg)			
				Grease lub.	Oil lub.		$d_a$ min.	$D_a$ max.	$r_a$ max.				
<b>380</b>	680	95	6	584	990	15.6	650	780	<b>6276</b>	404	656	5	162
<b>400</b>	500	46	2.1	249	374	16.1	920	1 100	<b>6880</b>	411	489	2	20.5
	540	65	4	362	588	16.5	860	1 000	<b>6980</b>	416	524	3	42.7
	600	63	5	358	587	16.5	780	920	<b>16080</b>	420	580	4	65.0
	600	90	5	508	824	15.7	780	920	<b>6080</b>	420	580	4	87.7
	720	103	6	628	1 080	15.5	590	710	<b>6280</b>	424	696	5	197
<b>420</b>	520	46	2.1	253	389	16.1	860	1 000	<b>6884</b>	431	509	2	21.5
	560	65	4	359	588	16.5	810	950	<b>6984</b>	436	544	3	43.5
	620	63	5	367	617	16.4	740	870	<b>16084</b>	440	600	4	69.9
	620	90	5	530	894	15.8	740	870	<b>6084</b>	440	600	4	91.2
<b>440</b>	540	46	2.1	257	404	16.0	810	950	<b>6888</b>	451	529	2	22.5
	600	74	4	396	676	16.4	740	870	<b>6988</b>	456	584	3	61.3
	650	67	5	407	710	16.5	680	810	<b>16088</b>	460	630	4	81.7
<b>460</b>	580	56	3	314	517	16.2	740	870	<b>6892</b>	473	567	2.5	35.0
	620	74	4	407	711	16.5	690	820	<b>6992</b>	476	604	3	61.7
	680	71	5	431	767	16.5	630	750	<b>16092</b>	480	660	4	91.2
<b>480</b>	600	56	3	321	539	16.1	690	820	<b>6896</b>	493	587	2.5	36.5
	650	78	5	432	768	16.5	640	760	<b>6996</b>	500	630	4	72.5
	700	71	5	444	807	16.5	600	710	<b>16096</b>	500	680	4	98.5
<b>500</b>	620	56	3	327	561	16.1	650	770	<b>68/500</b>	513	607	2.5	37.5
	670	78	5	444	807	16.5	610	720	<b>69/500</b>	520	650	4	75.2
	720	71	5	455	846	16.4	560	660	<b>160/500</b>	520	700	4	102
	720	100	6	600	1 100	16.0	570	670	<b>60/500</b>	524	696	5	128

[Remark] Standard cage types used for the above bearings are described earlier in this section.