



Ball & Roller Bearings



JTEKT

JTEKT CORPORATION

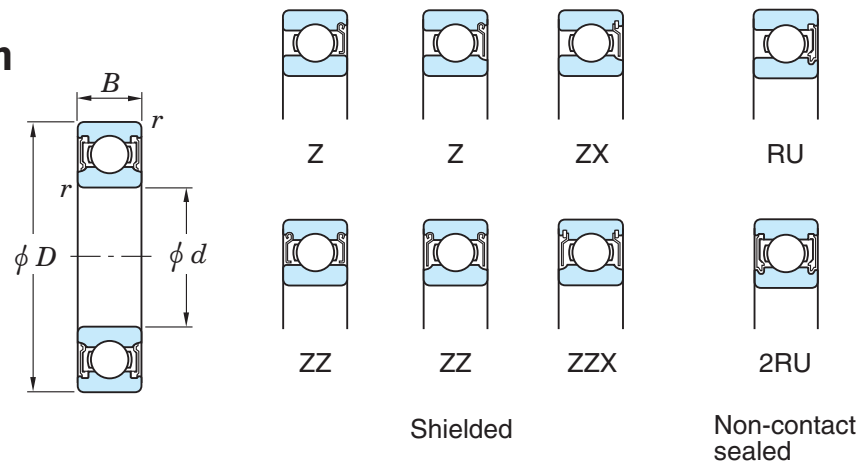
CAT. NO. B2001E-3

Single-row deep groove ball bearings

shielded type

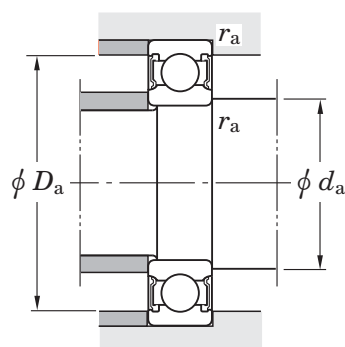
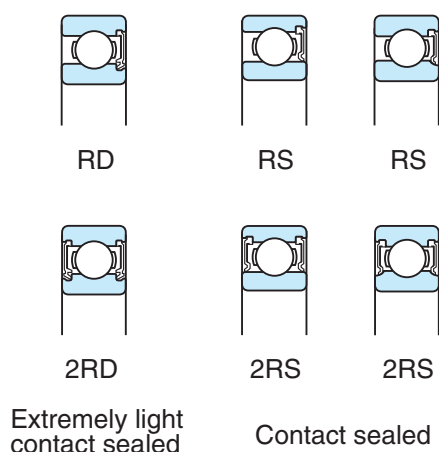
sealed type

d 45 ~ (70) mm



Boundary dimensions (mm)				Basic load ratings (kN)		Factor	Limiting speeds (min ⁻¹)				Shielded
<i>d</i>	<i>D</i>	<i>B</i>	<i>r</i> _{min.}	<i>C</i> _r	<i>C</i> _{0r}	<i>f</i> ₀	Grease lub.		Oil lub.		
							$\left[\begin{smallmatrix} Z, ZZ \\ RU, 2RU \end{smallmatrix} \right]$	(RD, 2RD)	(RS, 2RS)	(Z)	
45	58	7	0.3	6.20	5.40	16.3	11 000	9 900	5 900	13 000	6809 ZZ
	68	12	0.6	14.1	10.9	15.9	9 700	8 700	5 500	11 000	6909 ZZ
	75	16	1	21.0	15.1	15.3	9 200	8 300	5 300	11 000	6009 ZZ
	85	19	1.1	32.7	20.3	14.0	7 700	6 900	5 100	9 200	6209 ZZ
	100	25	1.5	48.9	29.5	13.3	6 800	6 100	4 500	8 100	6309 ZZ
50	65	7	0.3	6.60	6.10	16.1	9 600	8 600	5 200	11 000	6810 ZZ
	72	12	0.6	14.5	11.7	16.1	9 000	—	5 000	11 000	6910 ZZ
	80	16	1	21.8	16.6	15.6	8 400	7 600	4 800	9 900	6010 ZZ
	90	20	1.1	35.1	23.3	14.4	7 100	6 400	4 600	8 500	6210 ZZ
	110	27	2	62.0	38.3	13.2	6 100	5 500	4 100	7 300	6310 ZZ
55	72	9	0.3	8.80	8.10	16.2	8 700	7 800	—	10 000	6811 ZZ
	80	13	1	16.6	14.1	16.2	8 100	7 300	4 500	9 600	6911 ZZ
	90	18	1.1	28.3	21.2	15.3	7 600	6 800	4 300	8 900	6011 ZZ
	100	21	1.5	43.4	29.4	14.4	6 300	5 700	4 100	7 600	6211 ZZ
	120	29	2	71.6	45.0	13.2	5 600	—	3 700	6 700	6311 ZZ
60	78	10	0.3	11.5	10.6	16.3	8 000	7 200	—	9 400	6812 ZZ
	85	13	1	20.2	17.3	16.2	7 500	—	—	8 900	6912 ZZ
	95	18	1.1	29.4	23.2	15.6	7 100	—	4 000	8 400	6012 ZZ
	110	22	1.5	52.4	36.2	14.4	5 700	5 100	3 700	6 900	6212 ZZ
	130	31	2.1	81.9	52.2	13.2	5 200	—	3 500	6 200	6312 ZZ
65	85	10	0.6	11.9	11.5	16.2	7 300	6 600	—	8 600	6813 ZZ
	90	13	1	17.4	16.1	16.6	7 100	6 400	3 900	8 400	6913 ZZ
	100	18	1.1	30.5	25.2	15.8	6 600	—	3 700	7 800	6013 ZZ
	120	23	1.5	57.2	40.1	14.4	5 400	—	3 500	6 400	6213 ZZ
	140	33	2.1	92.7	59.9	13.2	4 800	—	3 200	5 800	6313 ZZ
70	90	10	0.6	12.1	11.9	16.1	6 800	6 100	—	8 100	6814 ZZ
	100	16	1	23.7	21.2	16.3	6 400	5 800	3 600	7 600	6914 ZZ

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



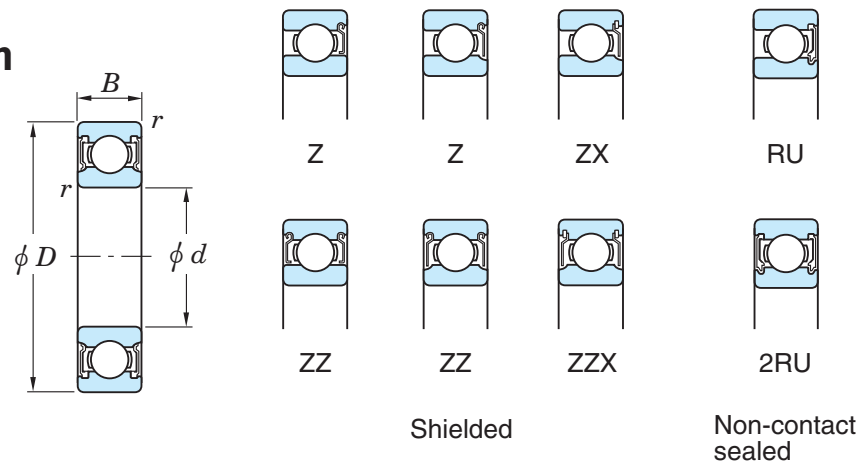
Bearing No.			Mounting dimensions. (mm)				(Refer.) Mass Open type (kg)
Non-contact sealed	Extremely light contact sealed	Contact sealed	d_a min.	d_a max.	D_a max.	r_a max.	
6809 2RU	6809 2RD	6809 2RS	47	47	56	0.3	0.040
6909 2RU	6909 2RD	6909 2RS	49	50	64	0.6	0.132
6009 2RU	6009 2RD	6009 2RS	50	51.5	70	1	0.245
6209 2RU	6209 2RD	6209 2RS	51.5	53.5	78.5	1	0.407
6309 2RU	6309 2RD	6309 2RS	53	59.5	92	1.5	0.833
6810 2RU	6810 2RD	6810 2RS	52	53	63	0.3	0.052
6910 2RU	—	—	54	55.5	68	0.6	0.133
6010 2RU	6010 2RD	6010 2RS	55	57	75	1	0.261
6210 2RU	6210 2RD	6210 2RS	56.5	59	83.5	1	0.463
6310 2RU	6310 2RD	6310 2RS	59	66.5	101	2	1.07
6811 2RU	6811 2RD	—	57	58.5	70	0.3	0.083
6911 2RU	6911 2RD	6911 2RS	60	60.5	75	1	0.185
6011 2RU	6011 2RD	6011 2RS	61.5	62	83.5	1	0.385
6211 2RU	6211 2RD	6211 2RS	63	66	92	1.5	0.607
6311 2RU	—	6311 2RS	64	74.5	111	2	1.37
6812 2RU	6812 2RD	—	62	63	76	0.3	0.104
6912 2RU	—	—	65	66	80	1	0.192
6012 2RU	—	6012 2RS	66.5	68.5	88.5	1	0.415
6212 2RU	6212 2RD	6212 2RS	68	72.5	102	1.5	0.783
6312 2RU	—	6312 2RS	71	80	119	2	1.70
6813 2RU	6813 2RD	—	69	69	81	0.6	0.126
6913 2RU	6913 2RD	6913 2RS	70	71	85	1	0.211
6013 2RU	—	6013 2RS	71.5	74.5	93.5	1	0.435
6213 2RU	—	6213 2RS	73	79	112	1.5	0.990
6313 2RU	—	6313 2RS	76	86	129	2	2.08
6814 2RU	6814 2RD	—	74	74	86	0.6	0.134
6914 2RU	6914 2RD	6914 2RS	75	76.5	95	1	0.342

Single-row deep groove ball bearings

shielded type

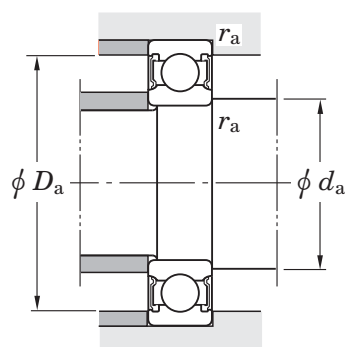
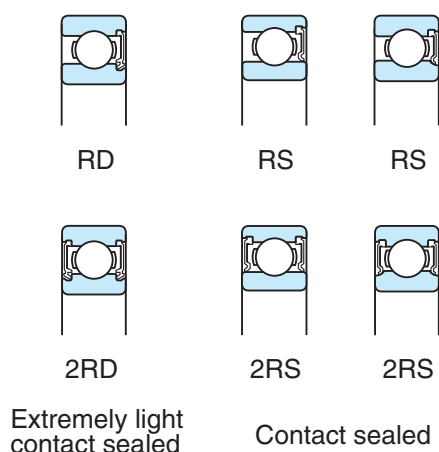
sealed type

d (70) ~ 95 mm



Boundary dimensions (mm)				Basic load ratings (kN)		Factor	Limiting speeds (min ⁻¹)				Shielded
<i>d</i>	<i>D</i>	<i>B</i>	<i>r</i> _{min.}	<i>C</i> _r	<i>C</i> _{0r}	<i>f</i> ₀	Grease lub.		Oil lub.		
							$\begin{bmatrix} Z, ZZ \\ RU, 2RU \end{bmatrix}$	(RD, 2RD)	(RS, 2RS)	(Z)	
70	110	20	1.1	38.1	30.9	15.6	6 100	—	3 500	7 200	6014 ZZ
	125	24	1.5	62.2	44.1	14.5	5 100	—	3 300	6 100	6214 ZZ
	150	35	2.1	104	68.2	13.2	4 500	—	3 000	5 400	6314 ZZ
75	95	10	0.6	12.5	12.9	16.0	6 400	5 800	—	7 600	6815 ZZ
	105	16	1	24.4	22.6	16.5	6 100	—	—	7 200	6915 ZZ
	115	20	1.1	39.6	33.5	15.8	5 700	—	3 300	6 800	6015 ZZ
	130	25	1.5	67.4	48.3	14.5	4 800	—	3 100	5 800	6215 ZZ
	160	37	2.1	113	77.2	13.2	4 200	—	2 800	5 000	6315 ZZ
80	100	10	0.6	12.7	13.3	16.0	6 100	5 500	—	7 200	6816 ZZ
	110	16	1	25.0	24.0	16.6	5 700	5 100	3 200	6 800	6916 ZZ
	125	22	1.1	47.6	39.8	15.6	5 300	—	3 100	6 300	6016 ZZ
	140	26	2	72.7	53.0	14.6	4 500	—	2 900	5 400	6216 ZZ
	170	39	2.1	123	86.7	13.3	3 900	—	2 700	4 700	6316 ZZ
85	110	13	1	18.7	19.0	16.2	5 600	5 000	—	6 600	6817 ZZ
	120	18	1.1	31.9	29.6	16.4	5 300	4 800	3 000	6 300	6917 ZZ
	130	22	1.1	49.5	43.1	15.8	5 000	—	2 900	5 900	6017 ZZ
	150	28	2	84.0	61.9	14.5	4 200	—	2 700	5 000	6217 ZZ
	180	41	3	133	96.8	13.3	3 700	—	2 500	4 400	6317 ZZX
90	115	13	1	19.0	19.7	16.1	5 300	4 800	—	6 300	6818 ZZ
	125	18	1.1	32.8	31.6	16.5	5 100	4 600	2 800	6 000	6918 ZZ
	140	24	1.5	58.2	49.7	15.6	4 700	—	2 700	5 600	6018 ZZ
	160	30	2	96.1	71.5	14.5	3 900	—	2 600	4 700	6218 ZZ
	190	43	3	143	107	13.3	3 500	—	2 400	4 200	6318 ZZX
95	130	18	1.1	33.7	33.5	16.6	4 800	4 300	2 700	5 700	6919 ZZ
	145	24	1.5	60.4	53.9	15.8	4 400	—	2 500	5 200	6019 ZZX
	170	32	2.1	109	81.9	14.4	3 700	—	2 400	4 400	6219 ZZX
	200	45	3	153	119	13.3	3 300	—	2 200	4 000	6319 ZZX

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



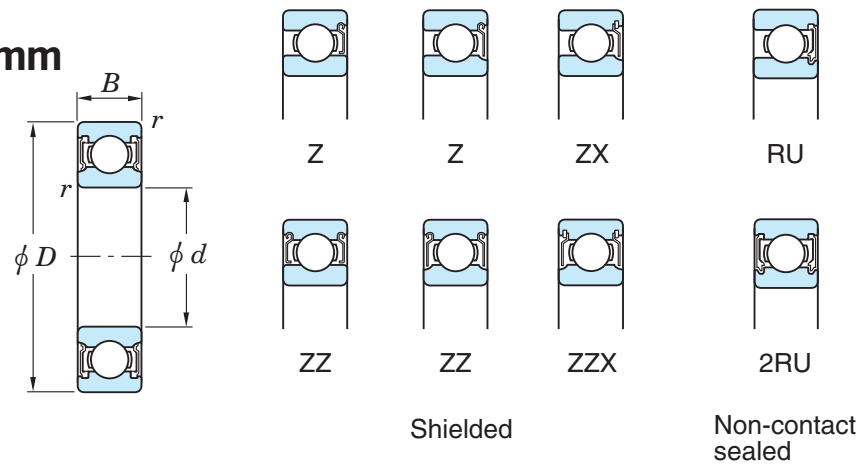
Bearing No.			Mounting dimensions. (mm)				(Refer.) Mass Open type (kg)
Non-contact sealed	Extremely light contact sealed	Contact sealed	d_a min.	d_a max.	D_a max.	r_a max.	
6014 2RU	—	6014 2RS	76.5	79.5	103.5	1	0.602
6214 2RU	—	6214 2RS	78	84	117	1.5	1.07
6314 2RU	—	6314 2RS	81	92	139	2	2.52
6815 2RU	6815 2RD	—	79	79	91	0.6	0.142
6915 2RU	—	—	80	82.5	100	1	0.363
6015 2RU	—	6015 2RS	81.5	84.5	108.5	1	0.638
6215 2RU	—	6215 2RS	83	88.5	122	1.5	1.18
6315 2RU	—	6315 2RS	86	97.5	149	2	3.02
6816 2RU	6816 2RD	—	84	84	96	0.6	0.150
6916 2RU	6916 2RD	6916 2RS	85	86.5	105	1	0.382
6016 2RU	—	6016 2RS	86.5	90	118.5	1	0.850
6216 2RU	—	6216 2RS	89	93	131	2	1.40
6316 2RU	—	6316 2RS	91	105	159	2	3.59
6817 2RU	6817 2RD	—	90	90.5	105	1	0.266
6917 2RU	6917 2RD	6917 2RS	91.5	92.5	113.5	1	0.535
6017 2RU	—	6017 2RS	91.5	96.5	123.5	1	0.890
6217 2RU	—	6217 2RS	94	102	141	2	1.79
6317 2RU	—	6317 2RS	98	111	167	2.5	4.23
6818 2RU	6818 2RD	—	95	95.5	110	1	0.279
6918 2RU	6918 2RD	6918 2RS	96.5	97.5	118.5	1	0.565
6018 2RU	—	6018 2RS	98	100.5	132	1.5	1.16
6218 2RU	—	6218 2RS	99	108.5	151	2	2.15
6318 2RU	—	6318 2RS	103	117	177	2.5	4.91
6919 2RU	6919 2RD	6919 2RS	101.5	102	123.5	1	0.705
6019 2RU	—	6019 2RS	103	107.5	137	1.5	1.21
6219 2RU	—	6219 2RS	106	113	159	2	2.62
6319 2RU	—	6319 2RS	108	122	187	2.5	5.67

Single-row deep groove ball bearings

shielded type

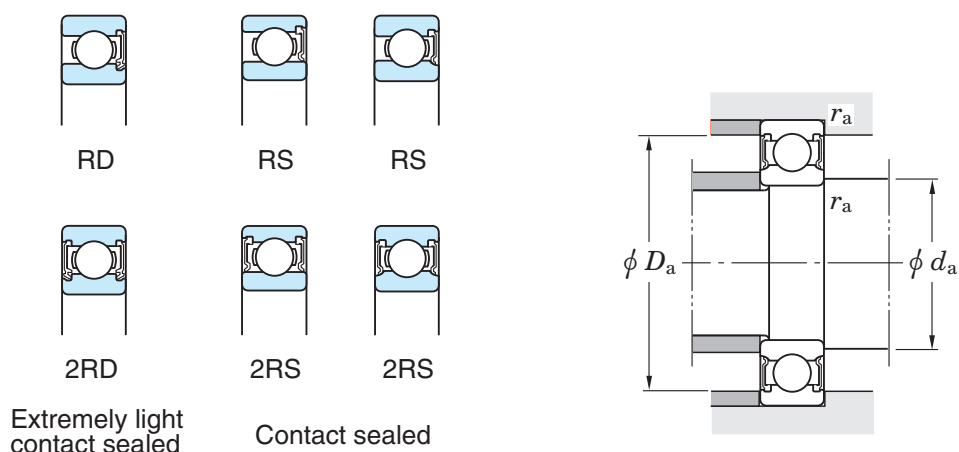
sealed type

d 100 ~ (140) mm



Boundary dimensions (mm)				Basic load ratings (kN)		Factor	Limiting speeds (min ⁻¹)				Shielded
<i>d</i>	<i>D</i>	<i>B</i>	<i>r</i> _{min.}	<i>C</i> _r	<i>C</i> _{0r}	<i>f</i> ₀	Grease lub.		Oil lub.		
							$\left[\begin{smallmatrix} Z, ZZ \\ RU, 2RU \end{smallmatrix} \right]$	(RD, 2RD)	(RS, 2RS)	(Z)	
100	125	13	1	19.6	21.2	16.0	4 800	4 300	—	5 700	6820 ZZ
	140	20	1.1	45.0	41.9	16.2	4 500	—	—	5 300	6920-1 ZZ
	150	24	1.5	60.2	54.2	15.9	4 300	—	2 500	5 100	6020 ZZ
	180	34	2.1	122	93.1	14.4	3 500	—	2 300	4 200	6220 ZZX
	215	47	3	173	141	13.2	3 000	—	2 100	3 600	6320 ZZX
105	145	20	1.1	46.5	44.8	16.4	4 300	—	2 400	5 100	6921-1 ZZ
	160	26	2	72.3	65.8	15.8	4 000	—	2 300	4 700	6021 ZZX
	190	36	2.1	133	105	14.4	3 300	—	2 200	3 900	6221 ZZX
	225	49	3	184	153	13.2	2 900	—	2 000	3 500	6321 ZZX
110	140	16	1	28.1	30.7	16.1	4 300	3 900	—	5 100	6822 ZZ
	150	20	1.1	47.9	47.8	16.4	4 100	—	—	4 900	6922 ZZ
	170	28	2	82.0	73.0	15.6	3 800	—	2 200	4 500	6022 ZZX
	200	38	2.1	144	117	14.4	3 100	—	2 000	3 700	6222 ZZX
	240	50	3	205	180	13.2	2 700	—	1 900	3 200	6322 ZZX
120	150	16	1	29.0	33.0	16.0	4 000	—	—	4 700	6824 ZZ
	165	22	1.1	57.2	56.9	16.4	3 800	—	—	4 400	6924 ZZ
	180	28	2	85.0	79.3	15.9	3 600	—	2 100	4 200	6024 ZZX
	215	40	2.1	155	131	14.4	2 900	—	1 900	3 400	6224 ZZX
	260	55	3	207	185	13.5	2 500	—	—	3 000	6324 ZZX
130	165	18	1.1	36.9	41.2	16.1	3 600	—	—	4 300	6826 ZZ
	180	24	1.5	65.2	67.4	16.3	3 400	—	—	4 100	6926-1 ZZ
	200	33	2	106	101	15.8	3 200	—	1 900	3 800	6026 ZZX
	230	40	3	167	146	14.5	2 700	—	1 800	3 200	6226 ZZX
	280	58	4	229	214	13.6	2 300	—	—	2 700	6326 ZZX
140	175	18	1.1	38.2	44.4	16.0	3 400	3 100	—	4 000	6828 ZZ
	190	24	1.5	71.3	74.8	16.5	3 200	—	—	3 800	6928-1 ZZ
	210	33	2	110	109	15.9	3 000	—	1 800	3 600	6028 ZZX

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



Bearing No.			Mounting dimensions. (mm)				(Refer.) Mass Open type (kg)
Non-contact sealed	Extremely light contact sealed	Contact sealed	d_a min.	d_a max.	D_a max.	r_a max.	
6820 2RU	6820 2RD	—	105	105.5	120	1	0.309
6920-1 2RU	—	—	106.5	110.5	133.5	1	0.960
6020 2RU	—	6020 2RS	108	112	142	1.5	1.25
6220 2RU	—	6220 2RS	111	122	169	2	3.14
6320 2RU	—	6320 2RS	113	131	202	2.5	7.00
6921-1 2RU	—	6921-1 2RS	111.5	115	138.5	1	1.00
6021 2RU	—	6021 2RS	114	119	151	2	1.59
6221 2RU	—	6221 2RS	116	127	179	2	3.70
6321 2RU	—	6321 2RS	118	136	212	2.5	8.05
6822 2RU	6822 2RD	—	115	116.5	135	1	0.606
6922 2RU	—	—	116.5	119.5	143.5	1	1.04
6022 2RU	—	6022 2RS	119	123	161	2	1.96
6222 2RU	—	6222 2RS	121	136.5	189	2	4.36
6322 2RU	—	6322 2RS	123	146.5	227	2.5	9.54
6824 2RU	—	—	125	128.5	145	1	0.655
6924 2RU	—	—	126.5	131.5	158.5	1	1.41
6024 2RU	—	6024 2RS	129	136	171	2	2.07
6224 2RU	—	6224 2RS	131	144	204	2	5.15
—	—	—	133	158	247	2.5	12.5
6826 2RU	—	—	136.5	139.5	158.5	1	0.939
6926-1 2RU	—	—	138	144	172	1.5	1.86
6026 2RU	—	6026 2RS	139	146.5	191	2	3.16
6226 2RU	—	6226 2RS	143	157	217	2.5	5.82
—	—	—	146	171	264	3	15.1
—	6828 2RD	—	146.5	148	168.5	1	1.00
6928-1 2RU	—	—	148	153	182	1.5	1.98
6028 2RU	—	6028 2RS	149	158.5	201	2	3.55