

ZWZ

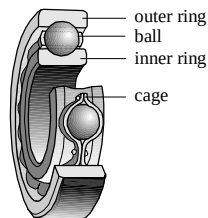
Bearing Integral Catalogue



WAFANGDIAN BEARING GROUP CORP., LTD.

Product Characteristics

Deep groove ball bearing consists of four basic parts, which are inner raceway (inner ring), outer raceway (outer ring), steel balls and cage. With normal rotation, inner raceway, outer raceway and steel balls accommodate the load while the cage plays a role in separating the balls and keeping stable. Single-row deep groove ball bearing has a simple structure, non-split inner ring and outer ring and easy to be used so it is widely used bearing in machinery industry such as precision meter, low noise electric motor, automobile, motorcycle, woodworker, transmission shaft of textile machinery, mining machinery, electromechanical equipments, plastic machinery, office equipments, medical equipments, fitness equipments, national defense industry, aeronautic industry, aerospace industry, excise equipments and other general machinery. Single-row deep groove ball bearing is mainly used for accommodating radial load and certain axial load. When this bearing is given a larger radial clearance, this bearing will have a feature as radial thrust bearing to carry larger axial load and also can limit the axial movement in two directions. Different clearances allow a relative misalignment of inner ring and outer ring ranging from 8' to 16'.



(Deep groove ball bearing)

Product Category

ZWZ manufactures following categories of Deep groove ball bearing currently:

- Single-row deep groove ball bearing
- Single-row deep groove ball bearing with shield(s)
- Single-row deep groove ball bearing with seal(s)
- Single-row deep groove ball bearing with snap groove or snap ring on outer ring

Single-row deep groove ball bearing is used for the applications without special requirements for mounting, sealing and interface.

Single-row deep groove ball bearing with shield(s) is used for the applications with difficulties in lubricating and checking lubrication or special situations. There is gap between shield(s) and inner ring. Single-row deep groove ball bearing with two shields has been filled with lubricant when manufacturing so it is unnecessary to wash and fill lubricant before mounting. It is also unnecessary to add lubricant within lubricating period during operating.

Single-row deep groove ball bearing with seal(s) has a seal or seals with steel frame. The seal is contact type and has a more superior waterproof property than Single-row deep groove ball bearing with shield(s). However, the rotational speed of this bearing is lower than Single-row deep groove ball bearing with shield(s) due to the larger friction force. Single-row deep groove ball bearing with snap groove or snap ring on outer ring simplifies the mounting in housing as a result of positioning with snap ring in axial direction.

Dimension Range

The basic dimensions of Deep groove ball bearing manufactured by ZWZ are listed in dimension table.

Dimension range of bore diameter:
10mm - 1320mm

Dimension range of outer diameter:
30mm - 1600mm

Dimension range of overall width:
9mm - 300mm

Tolerance

The standard tolerance of Deep groove ball bearing manufactured by ZWZ is Class normal, which conforms to GB307.1. Please refer to tolerances listed in the table of preface pages.

Radial Clearance

The standard internal clearances of Deep groove ball bearing manufactured by ZWZ are C2, normal (C0), C3, C4 and C5, which conforms to GB4604. Please refer to radial clearances listed in the table of preface pages. The values are available for the bearings before mounting or without load.

The bearings with internal clearance larger or lower than standard values also can be developed.

X, Y factors please see following table:

Fa/Co	Normal					C3					C4				
	Fa/Fr ≤ e		Fa/Fr > e		e	Fa/Fr ≤ e		Fa/Fr > e		e	Fa/Fr ≤ e		Fa/Fr > e		e
	X	Y	X	Y		X	Y	X	Y		X	Y	X	Y	
0.025	1	0	0.56	2.0	0.22	1	0	0.46	1.74	0.31	1	0	0.44	1.42	0.39
0.04	1	0	0.56	1.8	0.24	1	0	0.46	1.61	0.33	1	0	0.44	1.36	0.41
0.07	1	0	0.56	1.6	0.27	1	0	0.46	1.46	0.36	1	0	0.44	1.27	0.44
0.13	1	0	0.56	1.4	0.31	1	0	0.46	1.30	0.41	1	0	0.44	1.17	0.46
0.25	1	0	0.56	1.2	0.37	1	0	0.46	1.14	0.47	1	0	0.44	1.05	0.53
0.5	1	0	0.56	1.0	0.44	1	0	0.46	1.00	0.54	1	0	0.44	1.00	0.56

Dynamic Equivalent Load:

$P_0 = F_r$ [kN] $F_a/F_r \leq 0.8$

$P_0 = 0.6F_r + 0.5F_a$ [kN] $F_a/F_r > 0.8$

Cage

Deep groove ball bearing has stamped steel cage or solid brass cage. When outer diameter is lower than 400mm, stamped steel cage is adopted without suffix after basic bearing number. When outer diameter is larger than 400mm, solid brass cage is adopted without suffix after basic bearing number.

Allowable Angle Error

Deep groove ball bearing allows different relative misalignments of inner ring with outer ring by radial clearance as follows:

Radial clearance	Allowable angle error
Normal	8'
C3	12'
C4	16'

Dynamic Equivalent Load:

$P = X F_r + Y F_a$ [kN]

In the formula:

F_r : Radial load [kN]

F_a : Axial load [kN]

Supplement Code

The definition of suffix code for deep groove ball bearing as follows:

- CN Normal group radial clearance, normally only for combine with following numbers to express relative narrow or the range of deviate.
- H The range of narrow clearance, equals to the upper half range of original clearance.
- L The range of narrow clearance, equals to the lower half range of original clearance.
- P The range of deviated clearance, equals to the upper half range of original clearance and the lower half of next group clearance.

The letters above can also applicable to combine with following clearance group to respective meanings: C2,C3,C4 & C5, for example: C2H

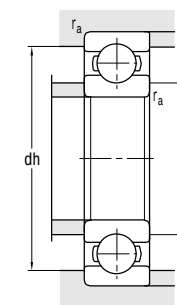
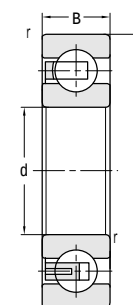
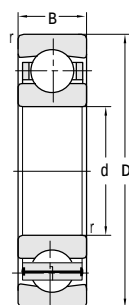
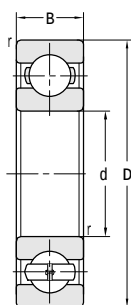
- C2 Radial clearance smaller than normal group.
- C3 Radial clearance larger than normal group
- C4 Radial clearance larger than C3
- C5 Radial clearance larger than C4
- DB Two sets of single-row deep groove ball bearings with back to back arrangement
- DF Two sets of single-row deep groove ball bearings with face to face arrangement
- DT Two sets of single-row deep groove ball bearings with tandem arrangement
- E Internal design changed, enhanced structure
- J Pressed steel sheet cage
- M Brass solid cage, steel ball guided. The different design and material is identified by adding numbers after the letter M, such as M2
- MA Brass solid cage, outer ring guided.
- MB Brass solid cage, inner ring guided
- MT33 MT33 Lithium base grease. NLGI viscosity grade 3, temperature range -30°C to +120°C (standard filling amount)
- MT47 MT47 Lithium base grease. NLGI viscosity grade 2, temperature range -30°C to +110°C (standard filling amount)
- N Outer ring with snap groove
- NR Outer ring with snap groove and snap ring
- N1 Outer ring endface with groove
- P5 Dimensional accuracy and rotating accuracy comply with ISO tolerance grade 5
- P6 Dimensional accuracy and rotating accuracy comply with ISO tolerance grade 6
- P52 P5+C2
- P62 P6+C2
- P63 P6+C3
- RS Bearing with frame system rubber seal ring (contact type)

- 2RS Bearing with RS sealed on both sides.
- RS1 Bearing with frame system rubber seal ring (contact type), the material of seal ring is sulfureted rubber
- 2RS1 Bearing with RS1 sealed on both sides
- RS2 Bearing with frame system rubber seal ring (contact type), the material of seal ring is fluoride rubber
- 2RS2 Bearing with RS2 sealed on both sides.
- RZ Bearing with frame type rubber sealing ring (non-contact type)
- 2RZ Bearing with RZ sealed on both sides.
- Z Bearing with shield on one side.
- 2Z Bearing with shields on both sides.
- ZN Z+N Shield with the different side of snap groove
- ZNR Z+NR Shield is on the other side of snap groove and snap ring.
- ZNB Z+NB Shield is on the same side of snap groove.
- ZNBR Z+NR Shield is on the same side of snap groove and snap ring.
- 2ZN 2Z+N Bearing with shields on both sides, outer ring with snap groove.
- 2ZNR 2Z+NR Bearing with shields on both sides, outer ring with snap groove and snap ring.
- TH Glass fibre-reinforced phenolic resin cage (tube shape)
- V Full complement rolling element (without cage)

Deep Groove Ball Bearing

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d 10–26 mm



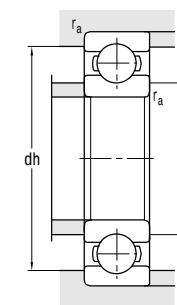
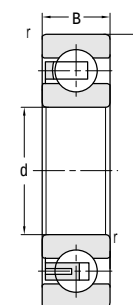
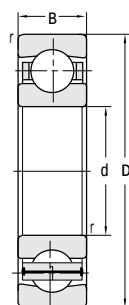
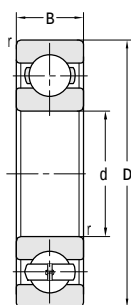
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
10	30	9	0.6	6.50	3.00	24000	30000
12	32	10	0.6	6.50	3.00	22000	28000
15	35	11	0.6	8.00	4.00	19000	24000
17	40	12	0.6	9.10	5.00	17000	20000
	47	14	1	13.6	6.60	16000	19000
	47	14	1	13.6	6.60	16000	19000
	47	14	1	13.6	6.60	16000	19000
20	47	14	1	13.0	6.70	15000	18000
	47	14	1	13.0	6.70	15000	18000
	62	16	1	18.2	10.0	13000	16000
22	56	16	1.1	17.8	9.25	13000	16000
23	52	13	1	17.7	9.35	13000	16000
	56	15	1	18.5	9.30	12000	15000
	56	15	1	18.5	9.30	12000	15000
25	37	7	0.3	4.2	2.64	16000	19000
	42	9	0.3	7.30	4.55	16000	19000
	42	9	0.3	7.30	4.55	16000	19000
	47	12	0.6	11.4	6.28	15000	18000
	47	8	0.3	8.00	5.00	14000	17000
	47	12	0.6	10.0	5.85	14000	17000
	52	15	1	14.3	8.00	12000	15000
	52	15	1	14.3	8.00	12000	15000
	52	18	1	14.0	7.90	12000	15000
	62	17	1.1	22.4	11.5	11000	14000
	62	17	1.1	22.4	11.5	15000	19000
	68	18	1.1	26.3	12.9	11000	14000
	80	21	1.5	37.5	19.0	9000	11000
26	68	19.5	2	40.3	17.0	9500	12000

Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	ra _{max}	
	mm			kg
6200	14	26	0.6	0.0277
6201	16	28	0.6	0.0365
6202	19	31	0.6	0.0431
6203	21	36	0.6	0.0661
6303-WCH	22.6	41.4	1	0.110
6303-WC	22.6	41.4	1	0.110
6303-BYD	22.6	41.4	1	0.110
6204	25	42	1	0.110
6204TN1	25	42	1	0.104
6304X3/C3	28	54	1	0.252
63/22/C3	29	47	1	0.183
62/23-BYD	29	43	1	0.117
66/23/P53YB2	29	47	1	0.169
66/23/P53Z2	29	47	1	0.172
61805	27	35	0.3	0.0227
61905	27	40	0.3	0.0415
1000905	27	40	0.3	0.0415
6005	29	43	0.6	0.078
16005	27	45	0.3	0.0562
FL-6005/C3	29	43	0.6	0.0787
6205	30	47	1	0.134
6205TN1	30	47	1	0.126
62205	30	47	1	0.159
6305	31.5	55.5	1	0.214
FL-6305/P6	31.5	55.5	1	0.214
6305X3/C3YA5	33	62	1	0.296
6405	33	72	1.5	0.530
6605X2WBTN1/HA	33	61	2	0.272

Deep Groove Ball Bearing

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d 28–40 mm



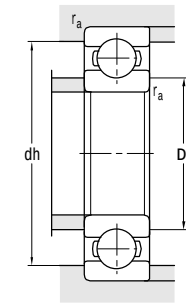
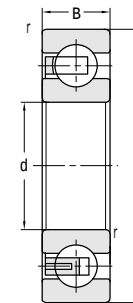
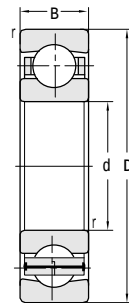
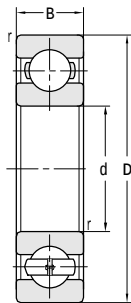
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{0r}	Grease	Oil
mm				kN		r/min	
28	68	18	1.1	32.5	13.0	9500	12000
	68	18	1.1	24.6	13.0	9500	12000
28.575	71.438	20.638	1.1	23.6	13.3	9400	11700
30	47	9	0.3	7.50	4.95	14000	17000
	55	9	0.3	10.6	6.75	12000	15000
	55	13	1	13.2	7.96	12000	15000
	59	22	0.4	13.0	8.00	10000	13000
	62	16	1	19.5	11.3	10000	13000
	72	19	1.1	28.4	15.4	9000	11000
	72	19	1.1	28.4	15.4	9000	11000
	90	23	1.5	44.5	23.0	8500	10000
33	72	17	1.1	22.5	13.6	9100	11000
35	47	7	0.3	3.90	3.00	13000	16000
	55	10	0.6	9.35	6.70	11000	14000
	62	14	1	16.0	10.3	10000	13000
	72	17	1.1	26.0	14.7	9000	11000
	80	21	1.5	33.4	19.2	8500	10000
	80	21	1.5	33.4	19.2	8500	10000
	100	25	1.5	55.5	29.5	7000	8500
40	62	12	0.6	13.0	9.20	10000	13000
	68	15	1	16.8	11.6	9500	12000
	68	15	1	16.8	11.6	9500	12000
	80	18	1.1	31.2	18.2	8500	10000
	80	18	1.1	31.2	18.2	8500	10000
	80	18	1.1	31.2	18.2	8500	10000
	80	18	1.1	31.2	18.2	8500	10000
	80	18	1.1	31.2	18.2	8500	10000
	90	23	1.5	41.0	24.0	7500	9000
	90	23	1.5	41.0	24.0	7500	9000
	90	23	1.5	41.0	24.0	7500	9000
	90	23	1.5	41.0	24.0	7500	9000

Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	ra _{max}	
	mm			kg
63/28/HA	34.5	61.5	1	0.299
63/28	34.5	61.5	1	0.301
66/28X4	35	65	1	0.396
61906	32	45	0.3	0.0433
16006	32	53	0.3	0.0827
6006	34.6	50.4	1	0.121
1-0005	33	55	0.4	0.191
6206	35	57	1	0.218
6306	36.5	65.5	1	0.354
6306TN1	37	65	1	0.342
6406	38	82	1.5	0.805
62/33	40.5	64.5	1	0.308
61807	37	45	0.3	0.0292
61907	38.2	51.8	0.6	0.0779
6007	40	57	1	0.152
6207	41.5	65.5	1	0.294
6307	43	72	1.5	0.456
6307TN1	43	72	1.5	0.443
6407	43	92	1.5	0.919
61908	43.2	58.8	0.6	0.108
6008	44.6	63.4	1	0.191
6008/C3	44.6	63.4	1	0.191
6208	46.5	73.5	1	0.369
6208/P6	46.5	73.5	1	0.361
6208/HAP6	46.5	73.5	1	0.361
6208/P5YB2	46.5	73.5	1	0.361
370208	46.5	73.5	1	0.362
6308/P5YB2	48	82	1.5	0.642
6308	48	82	1.5	0.642
6308TN1	48	82	1.5	0.611
6308/HA	48	82	1.5	0.642

Deep Groove Ball Bearing

ZWZ

d 40–50 mm



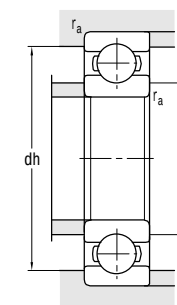
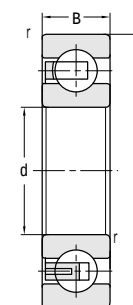
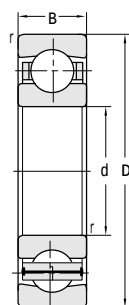
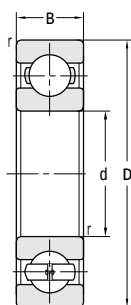
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
40	90	23	1.5	41.0	24.0	7500	9000
	110	27	2	67.5	36.0	6700	8000
41	80	17	1.1	23.7	19.0	8500	10000
	80	17	1.1	29.1	17.9	8500	10000
45	58	7	0.3	6.50	5.00	9500	12000
	75	10	0.6	14.9	11.4	9000	11000
	75	16	1	20.0	14.0	9000	11000
	85	19	1.1	33.7	20.7	7500	9000
	85	19	1.1	33.7	20.7	7500	9000
	85	19	1.1	33.7	20.7	7500	9000
	85	19	1.1	33.7	20.7	7500	9000
	85	19	1.1	33.7	20.7	7500	9000
	85	19	1.1	42.5	32.0	7500	9000
	90	20	1.1	41.0	24.4	7000	8500
	100	25	1.5	52.5	30.0	6700	8000
	100	25	1.5	52.5	30.0	6700	8000
	100	25	1.5	52.6	30.1	6700	8000
	100	25	1.5	52.7	30.2	6700	8000
	100	25	1.5	52.5	30.0	6700	8000
	100	25	1.5	52.5	30.0	6700	8000
	100	25	1.5	52.5	30.0	6700	8000
	120	29	2	73.0	43.0	6000	7000
50	72	12	0.6	13.9	11.0	8500	10000
	80	10	0.6	15.4	12.3	8500	10000
	80	16	1	22.0	16.3	6500	10000
	80	16	1	22.0	16.3	6500	10000
	80	16	1	22.0	16.3	11000	13000
	80	16	1	22.0	16.3	6500	10000
	90	20	1.1	35.6	22.3	7100	8500
	90	20	1.1	35.6	22.3	7100	8500
	90	20	1.1	35.6	22.3	7100	8500
	90	20	1.1	35.6	22.3	7100	8500
	90	20	1.1	35.6	22.3	7100	8500
	90	20	1.1	35.6	22.3	7100	8500
	90	20	1.1	35.6	22.3	7100	8500
	90	20	1.1	35.6	22.3	7100	8500

Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	ra _{max}	
	mm			kg
6308/C9YA4	48	82	1.5	0.642
6408	49	101	2	1.20
62/41/HAP53	47.5	73.5	1	0.342
62/41/P53	47.5	73.5	1	0.353
61809	47	56	0.3	0.0391
16009	49	71	0.6	0.165
6009	50	70	1	0.246
6209	51.5	78.5	1	0.429
6209TN1	51.5	78.5	1	0.415
6209K	51.5	78.5	1	0.419
6209MA	51.5	78.5	1	0.492
6209/YA1	51.5	78.5	1	0.429
209	51.5	78.5	1	0.492
6609TN1/YA1	51.5	83.5	1	0.481
6309/YB5	53	92	1.5	0.850
6309/HAC3V2YA7	53	92	1.5	0.807
309U2	53	92	1.5	0.850
309HU	53	92	1.5	1.05
6309A	53	92	1.5	0.859
6309	53	92	1.5	0.850
6309TN1	53	92	1.5	0.809
6409	54	111	2	1.59
61910	53.2	68.8	0.6	0.128
16010	54	76	0.6	0.179
6010	55	75	1	0.255
FL-6010	55	75	1	0.255
FL-6010/P6	55	75	1	0.255
FL-6010-QD	55	75	1	0.255
6210/HA	56.5	83.5	1	0.504
6210/C9YA6	56.5	83.5	1	0.474
6210	56.5	83.5	1	0.474
FL-6210	56.5	83.5	1	0.474
FL-6210-QD	56.5	83.5	1	0.474

Deep Groove Ball Bearing

ZWZ

d 50–60 mm



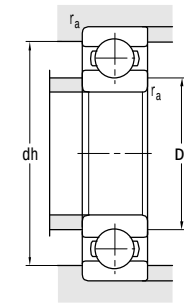
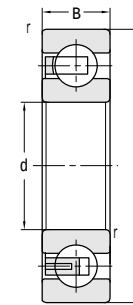
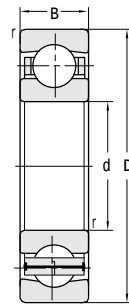
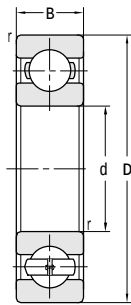
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
50	90	26	1.1	35.6	22.3	7100	8500
	110	27	2	62.0	38.0	6300	7500
	110	27	2	62.0	38.0	6300	7500
	110	27	2	62.0	38.0	6300	7500
	110	27	2	62.0	38.0	6300	7500
	111	27	2.3	62.0	38.0	6300	7500
	111	27	2.3	62.0	38.0	6300	7500
	130	31	2.1	88.0	52.0	5300	6300
55	72	9	0.3	8.80	8.10	8500	10000
	80	13	1	15.9	13.2	8000	9500
	90	11	0.6	21.3	14.2	7500	9000
	90	18	1.1	29.0	20.7	7500	9000
	90	18	1.1	29.0	20.7	7500	9000
	90	11	0.6	18.6	15.2	7500	9000
	100	21	1.5	44.3	27.8	6300	7500
	100	21	1.5	44.3	27.8	6300	7500
	100	26	1.5	44.3	27.8	6300	7500
	120	29	2	71.5	45.0	5600	6700
	120	29	2	71.5	45.0	5600	6700
	120	29	2	71.5	45.0	5600	6700
	140	33	2.1	95.0	60.0	5000	6000
60	85	13	1	17.0	15.1	7500	9000
	95	11	0.6	19.1	16.5	6700	8000
	95	18	1.1	30.0	23.0	6700	8000
	95	18	1.1	30.0	23.0	6700	8000
	110	22	1.5	53.0	36.0	5600	7100
	110	22	1.5	53.0	36.0	5600	7100
	110	22	1.5	53.0	36.0	5600	7100
	110	22	1.5	53.0	36.0	6000	7000
	110	22	1.5	53.0	36.0	5600	7100
	110	22	1.5	53.0	36.0	5600	7100
	110	22	1.5	53.0	36.0	5600	7100
	110	22	1.5	53.0	36.0	5600	7100
	110	22	1.5	53.0	36.0	5600	7100
	110	22	1.5	53.0	36.0	5600	7100

Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	ra _{max}	
	mm			kg
62210X2	56.5	83.5	1	0.601
6310	59	101	2	1.12
6310A	59	101	2	1.12
6310TN1	59	101	2	1.06
6310TN11	59	101	2	1.06
6310X1	61	101	2	1.13
810	61	101	2	1.10
6410	61	119	2	1.91
61811	57	70	0.3	0.0845
61911	59.6	75.4	1	0.177
7000111	59	85	0.6	0.307
6011	61	84	1	0.384
6011/C9YA2	61	84	1	0.384
16011	58.2	86.8	0.6	0.255
6211K	63	92	1.5	0.620
6211	63	92	1.5	0.628
62211X2	63	92	1.5	0.759
6311	64	111	2	1.38
6311TN1	64	111	2	1.29
6311/YA6	64	111	2	1.37
6411	66	129	2	2.25
61912	64.5	80.5	1	0.201
16012	64	91	0.6	0.270
6012	66.5	88.5	1	0.416
6012M	66.5	88.5	1	0.497
6212	68	102	1.5	0.793
6212-1	68	102	1.5	0.772
6212/HAP63YA5	68	102	1.5	0.772
6212/YA6	68	102	1.5	0.793
212	68	102	1.5	0.793
212U	68	102	1.5	0.793
212U1	68	102	1.5	0.793
6212/YA5	68	102	1.5	0.772
6212K	68	102	1.5	0.781

Deep Groove Ball Bearing

ZWZ

d 60~70 mm



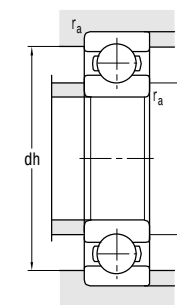
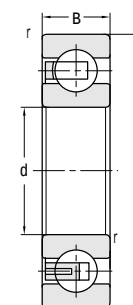
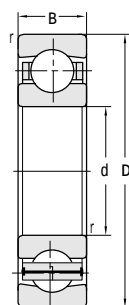
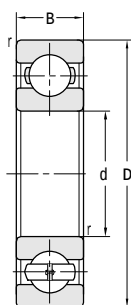
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
60	130	31	2.1	82.0	50.0	5300	6300
	130	31	2.1	82.0	50.0	5300	6300
	130	31	2.1	82.0	50.0	5000	6000
	130	31	2.1	82.0	50.0	5000	6000
	130	31	2.1	82.0	50.0	5000	6000
	150	35	2.1	107	68.5	4800	5600
65	85	10	0.6	10.4	12.9	6700	8000
	90	13	1	19.9	17.5	6700	8000
	100	18	1.1	32.0	25.0	6300	7500
	100	18	1.1	32.0	25.0	6300	7500
	120	23	1.5	57.0	40.0	5300	6300
	120	23	1.5	57.0	40.0	5300	6300
	120	23	1.5	57.0	40.0	5300	6300
	120	23	1.5	57.0	40.0	5300	6300
	120	23	1.5	57.0	40.0	5300	6300
	120	23	1.5	57.0	40.0	5300	6300
	120	23	1.5	57.0	40.0	5300	6300
	140	33	2.1	95.0	59.5	4800	5600
	140	33	2.1	87.5	56.5	4800	5600
	140	33	2.1	92.5	59.5	4800	5600
	140	33	2.5	92.5	59.5	4800	5600
	140	33	2.1	92.5	59.5	4800	5600
	160	37	2.1	118	78.5	4500	6300
70	110	20	1.1	38.0	30.0	6000	7000
	110	20	1.1	38.0	30.0	6000	7000
	125	24	1.5	61.2	43.2	5000	6000
	125	24	1.5	61.2	43.2	5000	6000
	150	35	2.1	104	68.0	4500	5300
	150	35	2.1	104	68.0	4500	5300
	150	35	2.1	104	68.0	4500	5300
	150	35	2.1	107	68.0	4500	5300
	150	35	2.1	107	68.0	4500	5300
	150	35	2.1	107	68.0	4500	5300
	150	35	2.1	107	68.0	4500	5300
	150	35	2.1	107	68.0	4500	5300

Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	ra _{max}	
	mm			kg
6312A	71	119	2	1.750
6312	71	119	2	1.750
6312Q1	71	119	2	2.12
6312TN1	71	119	2	1.69
4E312QT			2	2.07
6412	71	139	2	2.72
61813Q1	69	81	0.6	0.119
61913	70	85	1	0.195
6013	71.5	93.5	1	0.428
6013M	71.5	93.5	1	0.553
6213	73	112	1.5	1.00
FL-6213-QD	73	112	1.5	1.00
6213MA	73	112	1.5	1.23
6213A	73	112	1.5	1.00
6213/YA5	73	112	1.5	1.05
213G	73	112	1.5	1.01
180213	73	112	1.5	1.06
6313	76	129	2	2.10
6313/W124	77	128	2	2.15
6313A	76	129	2	1.85
6313/YA6	76	129	2.5	2.09
6313M	76	129	2	2.67
6413	76	149	2	3.21
6014	76.5	103.5	1	0.624
6014M	76.5	103.5	1	0.743
6214	78	117	1.5	1.12
6214A	78	117	1.5	1.12
6314A	81	139	2	2.60
6314/P6CMV2	81	139	2	2.55
314U1	81	139	2	2.55
6314	81	139	2	2.57
6314/W124	82	138	2	2.57
6314/C9	81	139	2	2.57

Deep Groove Ball Bearing

ZWZ

d 70–80 mm



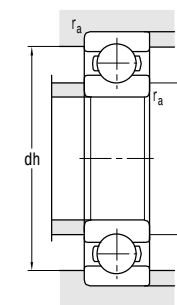
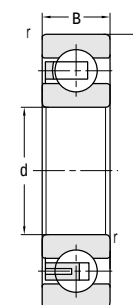
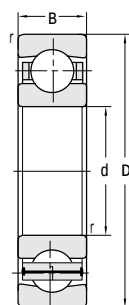
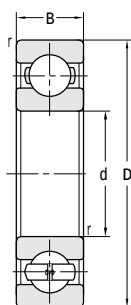
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
70	150	35	2.1	107	68.0	4500	5300
	150	35	2.1	107	68.0	4500	5300
	180	42	3	136	100	3800	4500
72	110	20	1.1	38.0	31.0	5200	6500
	115	20	1.1	38.0	31.0	5600	6700
	115	20	1.1	38.0	31.0	5600	6700
75	105	16	1	26.5	23.5	5600	6700
	115	13	0.6	29.0	26.0	5600	6700
	115	13	0.6	29.0	26.0	5600	6700
	115	13	1.1	24.8	23.9	5600	6700
	130	25	1.5	66.0	50.0	4800	5600
	130	25	1.5	66.0	50.0	4800	5600
	130	25	1.5	66.0	50.0	4800	5600
	130	25	1.5	66.0	50.0	4800	5600
	130	31	1.5	66.0	50.0	4800	5600
	160	37	2.1	113	77	4300	5000
	160	37	2.1	113	77	4300	5000
	160	37	2.1	113	77	4300	5000
	160	37	2.1	113	77	4300	5000
	160	37	2.1	113	77	4300	5000
	160	37	2.1	113	77	4300	5000
	160	37	2.1	113	77	4300	5000
	190	45	3	146	107	3600	4300
80	100	10	0.6	12.7	13.3	6000	7000
	110	16	1	27.5	25.0	5600	6700
	125	22	1.1	47.5	40.0	5300	6300
	125	22	1.1	47.5	40.0	6500	8000
	125	14	0.6	32.0	30.0	5300	6300
	125	22	1.1	47.5	40.0	5300	6300
	140	26	2	71.5	54.5	4500	5300
	140	26	2	71.5	54.5	4500	5300
	170	39	2.1	125	86.5	3800	4500
	170	39	2.1	125	86.5	3800	4500

Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	ra _{max}	
	mm			kg
6314/YA6	81	139	2	2.58
6314TN1	81	139	2	2.50
6414	83	167	2.5	4.54
60/72	79.5	102.5	1	0.584
6015	81.5	108.5	1	0.630
6015M	81.5	108.5	1	0.804
61915	80	100	1	0.350
16015	81.5	108.5	0.6	0.546
16015M	81.5	108.5	0.6	0.546
16015/YA6	84.5	105.5	1	0.476
6215	83	122	1.5	1.21
6215A	83	122	1.5	1.21
6215M	83	122	1.5	1.46
6215K	83	122	1.5	1.18
62215	83	122	1.5	1.47
6315	86	149	2	3.03
6315A	86	149	2	3.03
6315/CM	86	149	2	3.02
315U1	86	149	2	3.02
6315/YA8	86	149	2	3.03
6315M	86	149	2	3.86
6415	88	177	2.5	5.88
61816	83.2	96.8	0.6	0.153
61916	85	105	1	0.350
6016	86.5	118.5	1	0.845
FL-6016/P6	86.5	118.5	1	0.845
16016	84	121	0.6	0.599
6016M	86.5	118.5	1	1.04
6216A	89	131	2	1.47
6216	89	131	2	1.47
6316	91	159	2	3.68
6316/CM	91	159	2	3.60

Deep Groove Ball Bearing

ZWZ

d 80–90 mm



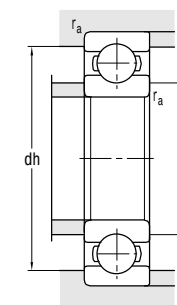
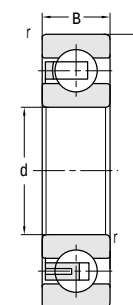
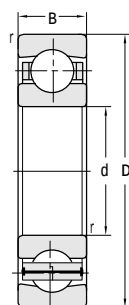
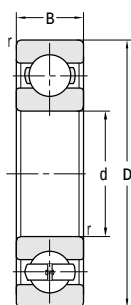
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
80	170	39	2.1	125	86.5	3800	4500
	170	39	2.1	125	86.5	3800	4500
	200	48	3	160	122	3400	4000
85	120	18	1.1	30.3	27.0	5300	6300
	130	14	0.6	31.5	30.0	5000	6000
	130	22	1.1	47.5	40.0	5000	6000
	130	22	1.1	47.5	40.0	5000	6000
	150	28	2	84.0	62.0	4300	5000
	150	28	2	77.0	59.0	4300	5000
	150	28	2	84.0	62.0	4300	5000
	150	28	2	84.0	62.0	4300	5000
	150	28	2	84.0	62.0	4300	5000
	150	28	2	84.0	62.0	4300	5000
	150	28	2	77.0	59.0	4300	5000
	150	28	1	77.0	59.0	4300	5000
	180	41	3	102	96.5	3800	4500
	180	41	3	102	96.5	3800	4500
	180	41	3	102	96.5	3800	4500
	180	41	3	102	96.5	3600	4300
	180	41	3	102	96.5	3800	4500
	210	52	4	170	132	3200	3800
88.9	127	19.05	1.1	28.9	28.4	4400	5500
90	125	18	1.1	33.0	31.5	5000	6000
	125	18	1.1	33.0	31.5	5000	6000
	125	18	0.6	33.0	31.5	5000	6000
	140	24	1.5	58.5	50.0	4800	5600
	140	16	1	58.5	50.0	4800	5600
	140	24	1.5	58.5	50.0	4800	5600
	160	30	2	97.0	72.0	3800	4500
	160	30	2	73.5	72	3800	4500
	160	30	2	97.0	72.0	3800	4500
	190	43	3	144	108	3400	4000
	190	43	3	144	108	3400	4000

Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	ra _{max}	
	mm			kg
6316M/HQ1	91	159	2	4.54
6316A	91	159	2	3.68
6416	93	187	2.5	6.84
61917	91	114	1	0.557
16017	89	126	0.6	0.636
6017	91.5	123.5	1	0.935
6017M	91.5	123.5	1	1.12
6217	94	141	2	1.85
6217/W124	94	141	2	1.85
6217K	94	141	2	1.81
6217A	94	141	2	1.85
6217/HA	94	141	2	1.80
6217M	94	141	2	1.91
6217/CRA9W124	94	141	2	1.85
6217R/C3Z1YA6	94	141	1	1.95
6317	98	167	2.5	4.33
6317/P6CMV2	98	167	2.5	4.33
6317M	98	167	2.5	4.97
6317/CRA9W124	99	166	2.5	4.29
317U1	98	167	2.5	4.33
6417	101	194	3	8.10
66/88.9/YA2	96.4	120.5	1	0.690
61918	96.5	118.5	1	0.572
61918M	96.5	118.5	1	0.680
61918/YA6	96.5	118.5	0.5	0.572
6018	98	132	1.5	1.15
16018M	95	135	1	0.990
6018M	98	132	1.5	1.36
6218	99	151	2	2.19
6218/CRA9W124	101	149	2	2.19
218U1	99	151	2	2.19
6318	103	177	2.5	4.97
6318/CM	103	177	2.5	4.97

Deep Groove Ball Bearing

ZWZ

d 90~100 mm



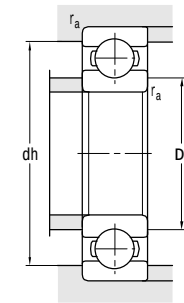
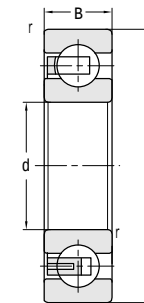
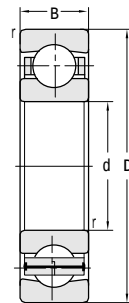
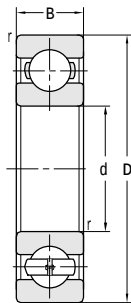
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
90	190	43	3	144	108	3400	4000
	190	43	5.5	144	108	3400	4000
	225	54	4	189	154	3000	3600
95	120	13	1	19.3	20.4	5000	6000
	130	18	1.1	33.8	33.0	4800	5600
	145	16	1	40.5	39.0	4500	5300
	145	24	1.5	78.5	54.0	4500	5300
	170	32	2.1	110	80.0	3600	4300
	170	32	2.1	102	77.0	3600	4300
	170	32	2.1	110	80.0	3600	4300
	170	32	2.1	102	77.0	3600	4300
	200	45	3	152	118	3200	3800
	200	45	3	152	118	3200	3800
	200	45	3	152	118	3200	3800
	200	45	3	152	118	3200	3800
	200	45	3	152	118	3200	3800
	200	45	3	152	118	3200	3800
	200	45	3	152	118	3200	3800
	200	45	3	152	118	3200	3800
	240	55	4	195	162	3400	3600
100	125	13	1	19.6	21.2	4800	5600
	140	20	1.1	34.5	35.0	4500	5300
	140	20	1.1	34.5	35.0	4500	5300
	150	16	1	43.6	44.0	4300	5000
	150	24	1.5	62.4	52.9	4300	5000
	150	24	1.5	62.4	52.9	4300	5000
	180	28	1.8	116	92.0	3400	4000
	180	34	2.1	122	93.0	3400	4000
	180	34	2.1	115	88.0	3400	4000
	180	34	2.1	115	88.0	3400	4000
	215	47	3	173	141	2800	3600
	215	47	3	173	141	2800	3600
	215	47	3	173	141	2800	3600
	215	47	3	173	141	3000	3600

Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	ra _{max}	
	mm			kg
6318M/C4	103	177	2.5	6.37
6318/YA6	103	177	2.5	4.97
6418	106	209	3	9.58
61819	99.6	115	1	0.288
61919	101	124	1	0.610
16019	100	140	1	0.884
6019	103	137	1.5	1.14
6219	106	159	2	2.66
6219/W124	106	159	2	2.66
6219M	106	159	2	3.34
6219/CRA9W124	106	159	2	2.66
6319	108	187	2.5	5.84
IS-6319M	108	187	2.5	7.11
6319/CM	108	187	2.5	5.58
6319A	108	187	2.5	5.84
6319-DT	108	187	2.5	5.84
6319F1/HQ1	108	187	2.5	6.93
6319M/HQ1	108	187	2.5	7.11
IS-6319	109	186	2.5	5.48
6419M	108	215	2.5	13.6
61820	105	120	1	0.326
61920M	106.5	133.5	1	0.960
61920	106.5	133.5	1	0.850
16020	108	142	1	0.916
6020	108	142	1.5	1.15
6020M	108	142	1.5	1.37
720	111.5	171.5	1.8	2.70
6220	111	169	2	3.25
6220/CRA9W124	111	169	2	3.25
6220/W124	111	169	2	3.25
6320	113	202	2.5	7.10
IS-6320M	113	202	2.5	8.94
6320-DT	113	202	2.5	7.10
6320/W124	114	201	2.5	7.10

Deep Groove Ball Bearing

ZWZ

d 100~110 mm



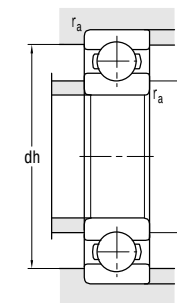
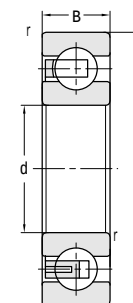
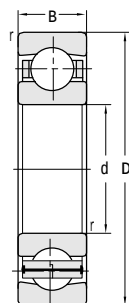
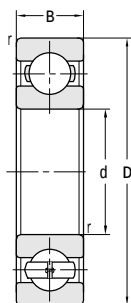
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
100	215	47	3	173	141	2800	3600
	215	47	3	173	141	2800	3600
	215	47	3	173	141	2800	3600
	215	47	3	173	141	2800	3600
	215	47	3	173	141	3000	3600
	215	47	3	173	141	3000	3600
	215	47	3	173	141	2800	3600
	250	58	4	214	184	2600	3400
	250	58	4	214	184	2600	3400
	250	58	4	214	184	2600	3400
105	130	13	1	19.9	21.9	4500	5300
	160	26	2	73.0	62.8	4000	4800
	160	26	2	73.0	62.8	4000	4800
	160	26	2	73.0	62.8	4000	4800
	180	22	1.1	68.0	65.0	4200	5000
	180	22	1.1	61.5	59.5	4200	5000
	190	36	2.1	135	102	3200	3800
	190	36	2.1	133	105	3200	3800
	190	36	2.1	133	105	3200	3800
	190	36	2.1	135	102	3200	3800
	225	49	3	240	154	2800	3400
	225	49	3	240	154	2800	3400
	225	49	3	240	154	2800	3400
	225	49	3	240	154	2800	3400
110	140	16	1	24.8	28.0	4300	5000
	150	20	1.1	43.5	44.5	4000	4800
	150	20	1.1	43.5	44.5	4000	4800
	170	19	1	57.2	57.0	3800	4500
	170	28	2	82.0	70.6	3800	4500
	170	28	2	82.0	70.6	3800	4500
	170	28	2	82.0	70.6	3800	4500
	200	38	2.1	145	114	2800	3400
	200	38	2.1	145	114	2800	3400
	200	38	2.1	132	106	3000	3600
	240	50	3	195	167	2400	3000
	240	50	3	195	167	2400	3000
	240	50	3	195	167	2600	3200
	240	50	3	151	169	2400	3000
	240	50	3	151	169	2400	3000
	240	50	3	151	169	2400	3000
	240	50	3	151	169	2400	3000
	240	50	3	151	169	2400	3000

Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	r _{amax}	
	mm			kg
6320A	113	202	2.5	7.10
6320M	113	202	2.5	8.94
6320M-DT	113	202	2.5	8.34
6320MA	113	202	2.5	9.28
6320M/CRA9	114	201	2.5	8.94
6320M/HQ1	114	201	2.5	8.00
6320/YA8	113	202	2.5	7.20
6420	116	234	3	13.1
6420M	116	234	3	16.2
61821M	110	125	1	0.468
6021	114	151	2	1.65
6021A	114	151	2	1.65
6021M	114	151	2	1.94
721	113.5	173.5	1	2.61
60121X1M	113.5	173.5	1	2.55
6221	116	179	2	3.85
6221/W124	117	178	2	3.66
6221/CRA9W124	117	178	2	3.66
6221M/CRA9	117	178	2	4.66
6321	118	212	2.5	8.05
61822	115	135	1	0.505
61922	116.5	143.5	1	0.888
61922M	116.5	143.5	1	1.01
16022	115	165	1	1.48
6022	119	161	2	1.92
6022M	119	161	2	2.35
6022M/YB5	119	161	2	2.35
6222	121	189	2	4.55
6222M	121	189	2	5.46
6222M/CRA9	122	188	2	5.46
6322	123	227	2.5	9.72
IS-6322M	123	227	2.5	11.7
6322-DT	123	227	2.5	9.72
6322/CM	123	227	2.5	9.23

Deep Groove Ball Bearing

ZWZ

d 110~130 mm



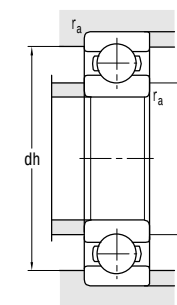
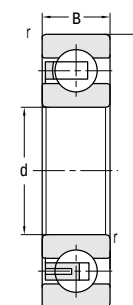
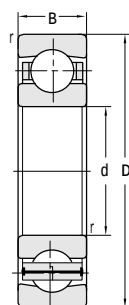
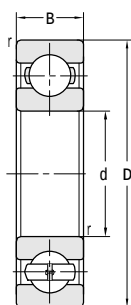
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
110	240	50	3	195	167	2600	3200
	240	50	3	195	167	2600	3200
	240	50	3	205	176	2400	3000
	240	50	3	205	176	2400	3000
	240	50	3	195	167	2600	3200
	280	65	4	247	226	2200	3000
	280	65	4	247	226	2200	3000
120	150	16	1	24.5	28.0	3800	4500
	165	22	1.1	53.0	54.0	3600	4300
	165	22	1.1	53.0	54.0	3600	4300
	180	19	1	60.5	64.0	3400	4000
	180	19	1	60.5	64.0	3400	4000
	180	28	2	85.5	80.0	3400	4000
	180	28	2	85.5	80.0	3400	4000
	180	28	2	85.5	80.0	3400	4000
	215	40	2.1	154	130	2800	3400
	215	40	2.1	155	132	2800	3400
	215	40	2.1	154	130	2800	3400
	215	40	2.1	155	132	2800	3400
	260	55	3	217	196	2200	2800
	260	55	3	217	196	2200	2800
	260	55	3	217	196	2200	2800
	260	55	3	217	196	2200	2800
	260	55	3	217	196	2200	2800
	260	55	3	217	196	2200	2800
	260	55	3	217	196	2400	3000
120.65	165.1	22.225	1.1	53.3	54.0	3600	4300
121	165	22	1.1	53.3	54.0	3600	4300
127	228.6	34.925	2	148	133	2200	2800
130	165	18	1.1	37.0	38.0	3600	4300
	180	24	1.5	65.0	67.0	3400	4000

Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	ra _{max}	
	mm			kg
6322/W124	124	226	2.5	9.72
IS-6322M	124	226	2.5	11.7
6322A	123	227	2.5	9.72
6322M	123	227	2.5	11.7
6322M/HQ1	124	226	2.5	10.5
6422	126	264	3	18.3
6422M	126	264	3	19.0
61824	125	145	1	0.566
61924	126.5	158.5	1	1.21
61924M	126.5	158.5	1	1.54
16024	125	175	1	1.64
16024M	125	175	1	1.82
6024	129	171	2	2.09
6024A	129	171	2	2.09
6024M	129	171	2	2.68
6224	131	204	2	5.28
6224/W124	132	203	2	5.30
6224M	131	204	2	6.68
6224M/CRA9	132	203	2	6.63
6324	133	247	2.5	12.5
6324-DT	133	247	2.5	12.5
6324A	133	247	2.5	12.5
6324M/C3	133	247	2.5	13.7
6324M-DT	133	247	2.5	14.8
6324F1/HQ1	133	247	2.5	13.4
6324/W124	134	245	2.5	12.5
619/121X4M	126.5	158.5	1	1.48
619/121M	126.5	158.5	1	1.48
66/127M	136	219.6	2	7.00
61826MA	136	159	1	0.969
61926M	138	172	1.5	1.92

Deep Groove Ball Bearing

ZWZ

d 130~140 mm



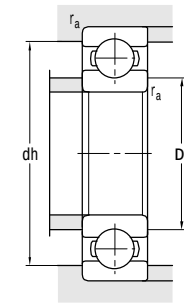
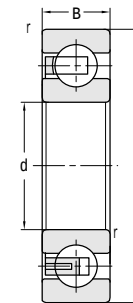
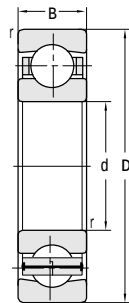
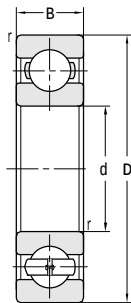
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
130	180	24	1.5	65.0	67.0	3400	4000
	190	19	0.7	56.0	60.0	3200	3800
	190	19	0.7	56.0	60.0	3200	3800
	200	22	1.1	79.5	81.5	3200	3800
	200	22	1.1	79.5	81.5	3200	3800
	200	33	2	109	98	3200	3800
	200	33	2	109	98	3200	3800
	200	33	2	109	98	3200	3800
	200	33	2	109	98	3200	3800
	230	40	3	153	134	2600	3200
	230	40	3	153	134	2600	3200
	230	40	3	153	134	2600	3200
	230	40	3	165	148	2600	3200
	230	40	3	165	148	2600	3200
	230	40	3	153	134	2600	3200
	280	58	4	251	241	2200	2600
	280	58	4	230	216	2200	2600
	280	58	4	240	226	2200	2800
	280	58	4	251	241	2200	2600
	280	58	4	251	241	2200	2600
	280	58	4	251	241	2200	2600
	280	58	4	251	241	2200	2600
	280	58	4	230	216	2200	2600
140	175	18	1.1	37.0	40.0	3400	4000
	175	18	1.1	37.0	40.0	3400	4000
	190	24	1.5	64.0	67.5	3200	3800
	210	22	1.1	80.5	86.5	3000	3600
	210	33	2	106	102	3000	3600
	210	33	2	106	102	3000	3600
	210	33	2	106	102	3000	3600
	210	33	2	106	102	3000	3600
	250	42	3	166	150	2400	3000
	250	42	3	166	150	2400	3000
	250	42	3	166	150	2400	3000
	250	42	3	128	150	2400	3000

Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	r _{amax}	
	mm			kg
61926	138	172	1.5	1.56
726	134	186	0.7	1.70
726H	134	186	0.7	1.91
16026M	136.5	193.5	1	2.32
16026	136.5	193.5	1	2.19
6026	139	191	2	3.29
FL-6026	139	191	2	3.29
6026M	139	191	2	3.96
6026MA	139	191	2	3.98
6226	143	217	2.5	6.33
6226M/CRA9	144	216	2.5	7.83
6226/W124	144	216	2.5	6.33
226HU1	143	217	2.5	7.51
226U1	143	217	2.5	6.16
6226MA	143	217	2.5	7.91
6326	146	264	3	15.3
6326-DT	146	264	3	15.1
6326/W124	147	263	3	15.3
6326A	146	264	3	14.9
6326F1/HQ1	146	264	3	16.7
FL-6326/HQ1	146	264	3	13.5
6326M	146	264	3	18.3
6326M-DT	146	264	3	17.6
61828M	146.5	168.5	1	1.00
61828MA	146.5	168.5	1	0.933
61928M	148	182	1.5	2.11
16028M	146.5	203.5	1	3.08
6028	146.5	201	2	3.47
6028/C9	149	201	2	3.47
6028/C9YB2	149	201	2	3.47
6028M	149	201	2	4.20
6228	153	237	2.5	7.41
6228/W124	154	236	2.5	7.41
6228M	153	237	2.5	9.28
6228MA	153	237	2.5	9.50

Deep Groove Ball Bearing

ZWZ

d 140~150 mm



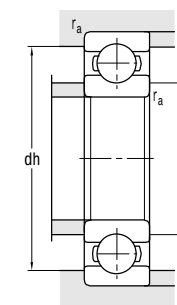
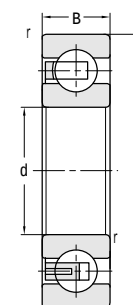
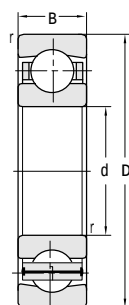
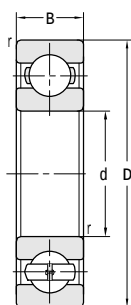
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
140	250	42	3	166	150	2400	3000
	300	62	4	329	246	2000	2600
	300	62	4	329	246	2000	2600
	300	62	4	253	246	2000	2600
	300	62	4	253	246	2000	2600
	300	62	4	329	246	2000	2600
	300	62	4	253	246	2000	2600
	300	62	4	253	246	2000	2600
	300	62	4	253	246	2000	2600
	300	62	4	253	246	2000	2600
144	185	22	0.7	62.5	70.0	3600	4000
	185	22	0.7	48.0	70.0	3600	4000
149	201	33	0.7	105	102	3000	3600
	201	33	0.7	81.0	100	3000	3600
150	190	20	1.1	46.4	53.0	3000	3600
	210	28	2	84.5	90	2800	3400
	225	24	1.1	89.0	96.0	2600	3200
	225	24	1.1	89.0	96.0	2600	3200
	225	35	2.1	123	117	2600	3200
	225	35	2.1	123	117	2600	3200
	225	35	2.1	123	117	2600	3200
	225	35	2.1	123	117	2600	3200
	225	35	2.1	123	117	2600	3200
	225	35	2.1	123	117	2600	3200
	230	35	2.1	123	117	2500	3000
	270	45	3	189	183	2000	2600
	270	45	3	189	183	2000	2600
	270	45	3	176	169	2000	2600
	270	45	3	176	169	2000	2600
	270	45	3	176	169	2000	2600
	320	65	4	360	280	1800	2200
	320	65	4	360	280	1800	2200
	320	65	4	360	280	1800	2200
	320	65	4	277	280	1800	2200
	320	65	4	360	280	1800	2200

Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	r _{amax}	
	mm			kg
6228M/CRA9	154	236	2.5	9.28
6328	156	284	3	18.8
FL-6328/HQ1	156	284	3	16.7
6328-DT	156	284	3	18.8
6328L3-DT	156	284	3	20.7
6328/W124	157	283	3	18.8
6328M	156	284	3	21.5
6328M-DT	156	284	3	22.7
6328M/CRA9	157	283	3	21.5
928T3	148	181	0.7	1.07
66/144/S2	148	181	0.7	1.07
930T3	153	197	0.7	1.79
66/149/S2	153	197	0.7	1.79
61830M	156	184	1	1.50
61930M	159	201	2	3.04
16030	156.5	218.5	1	3.14
16030M	156.5	218.5	1	3.67
6030	161	214	2	4.07
FL-6030	161	214	2	4.07
6030/C9	161	214	2	4.07
6030M	161	214	2	4.98
6030M/P4	161	214	2	4.98
6030X1M	159	220	2.1	5.37
6230	163	257	2.5	9.96
6230/W124	164	256	2.5	9.96
6230M	163	257	2.5	11.4
6230M/W124	164	256	2.5	11.8
6230M/CRA9	164	256	2.5	11.4
6330	166	304	3	22.2
IS-6330	166	304	3	22.2
FL-6330/HQ1	166	304	3	18.3
6330-DT	166	304	3	22.2
IS-6330	166	304	3	22.2

Deep Groove Ball Bearing

ZWZ

d 150~170 mm



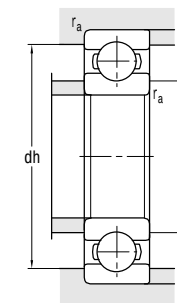
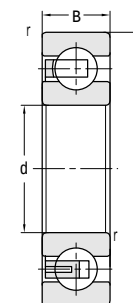
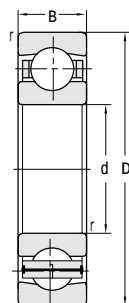
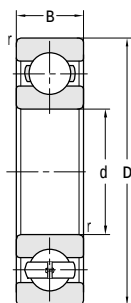
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
150	320	65	4	277	280	1800	2200
	320	65	4	277	280	1900	2400
160	200	20	1.1	49.5	59	2600	3200
	220	28	2	89	90.0	2600	3200
	229.5	33	3	108	111	2500	3100
	240	25	1.5	94.0	104	2400	3000
	240	25	1.5	94.0	104	2400	3000
	240	38	2.1	143	138	2400	3000
	240	38	2.1	143	138	2400	3000
	240	38	2.1	143	138	2400	3000
	240	38	2.1	127	127	2400	3000
	290	48	3	210	210	1900	2400
	290	48	3	200	201	1900	2400
	290	48	3	202	201	1900	2400
	290	48	3	200	201	1900	2400
	290	48	3	200	201	1900	2400
	290	48	3	202	202	1900	2400
	340	68	4	310	325	1800	2200
	340	68	4	310	325	1800	2200
	340	68	4	310	325	1800	2200
	340	68	4	310	325	1800	2200
	340	68	4	238	325	1800	2200
	340	68	4	310	325	1800	2200
165	250.5	35	2.5	147	143	2200	2600
170	215	22	1.1	65.0	61.0	2600	3200
	215	22	1.1	65.0	61.0	2600	3200
	215	22	1.1	65.0	61.0	2600	3200
	230	28	2	115	100	2400	3000
	230	28	2	115	100	2400	3000
	260	28	1.5	119	128	2200	2800
	260	28	1.5	119	129	2200	2800
	260	42	2.1	161	166	2200	2800
	260	42	2.1	161	166	2200	2800

Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	ra _{max}	
	mm			kg
6330M	166	304	3	23.9
6330M/W124	167	303	3	26.0
61832M	168	192	1.1	1.32
61932M	169	211	2	3.28
62932X3M/YA6	168	211	3	4.67
16032	168	232	1.5	3.95
16032M	168	232	1.5	4.60
6032	171	229	2	5.04
6032/C9	171	229	2	5.04
6032M	171	229	2	6.04
6032M/W124	169	231	2	6.04
6232	173	277	2.5	12.4
6232-DT	173	277	2.5	12.3
6232M	173	277	2.5	14.2
6232M/P59Z2	174	276	2.5	14.4
6232M/CRA9	174	276	2.5	14.2
6232/W124	174	276	2.5	12.3
6332	177	323	3	25.7
6332-DT	177	323	3	26.5
6332M	176	324	3	30.7
6332M-DT	176	324	3	31.8
6332M/W124	177	323	3	30.5
6332/W124	176	324	3	25.7
733	177	238	2.5	6.44
61834M	176.5	208.5	1	2.03
61834M-Z/YA8	176.5	208.5	1	1.89
61834MA	176.5	208.5	1	1.98
61934M	179	221	2	3.42
61934MA	179	221	2	3.40
16034	178	252	1.5	5.01
16034M	178	252	1.5	5.83
6034M	181	249	2	7.96
6034MA	181	249	2	8.25

Deep Groove Ball Bearing

ZWZ

d 170~190 mm



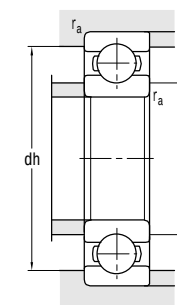
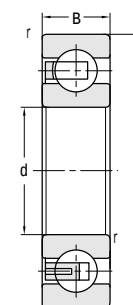
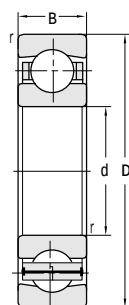
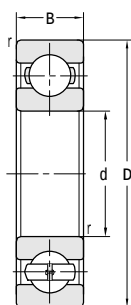
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
170	260	42	2.1	161	166	2200	2800
	260	42	2.1	161	166	2200	2800
	260	42	2.1	170	171	5300	4300
	310	52	4	225	240	1900	2400
	310	52	4	225	240	1900	2400
	310	52	4	225	240	1900	2400
	310	52	4	242	256	1900	2400
	310	52	4	225	240	1900	2400
	360	72	4	330	368	1700	2000
	360	72	4	330	368	1700	2000
	360	72	4	330	368	1700	2000
	360	72	4	330	368	1700	2000
	360	72	4	330	368	1700	2000
	360	72	4	330	368	1700	2000
180	225	22	1.1	61.8	79.0	2400	3000
	225	22	1.1	61.8	79.0	2400	3000
	250	33	2	118	128	2200	2800
	259.5	33	2	118	128	2200	2800
	259.5	52	2	118	128	2200	2800
	259.5	52	2	140	147	2200	2800
	280	31	2	135	145	2100	2700
	280	46	2.1	186	196	2200	2600
	280	46	2.1	186	196	2200	2600
	320	52	4	240	260	1800	2200
	320	52	4	240	260	1800	2600
	320	52	4	240	260	1800	2600
	380	75	4	340	400	1700	1900
	380	75	4	340	400	1700	1900
190	240	24	1.5	73.0	94.0	2200	2800
	260	33	2	127	138	2200	2800
	269.5	33	2	127	138	2200	2800
	289.5	46	2.1	191	211	2000	2600
	290	31	2	145	162	2000	2600
	290	31	2	145	162	2000	2600
	290	46	2.1	191	211	2000	2600
	290	46	2.1	191	211	2000	2600
	290	46	2.1	191	211	2000	2600
	290	46	2.1	191	211	2000	2600

Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	ra _{max}	
	mm			kg
6034	181	249	2	6.86
6034Q1	181	249	2	8.06
4G134QT	181	249	2	7.94
6234	186	294	3	15.1
6234-DT	186	294	3	15.1
6234M	186	294	3	17.9
6234/YA5	186	294	3	15.2
6234M/CRA9	187	293	3	17.9
6334	186	344	3	31.5
6334-DT	186	344	3	31.5
6334M	186	344	3	38.4
6334M/W124	187	343	3	38.4
6334M/P59Z2	187	343	3	38.4
61836M	186	219	1	2.05
61836MA	186	219	1	2.17
61936M	189	241	2	5.07
61936X1M	189	241	2	6.05
63936X1M	189	250.5	2	8.64
63936X1F3-1/C3H	189	250.5	2	8.82
16036M	189	270	2	6.58
6036	191	269	2	8.75
6036M	191	269	2	10.4
6236	196	304	3	14.9
6236M	196	304	3	17.8
6236MA	196	304	3	18.7
6336M	198	363	3	49.5
61838M	198	232	1.5	2.63
61938M	199	251	2	5.85
61938X1M	199	260.5	2	5.78
6038X1M	201	279	2	10.8
16038	199	281	2	6.88
16038M	199	281	2	8.11
6038M	201	279	2	11.1
6038	201	279	2	9.58

Deep Groove Ball Bearing

ZWZ

d 190~230 mm



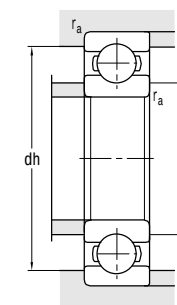
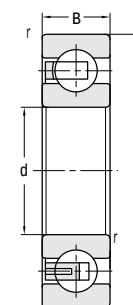
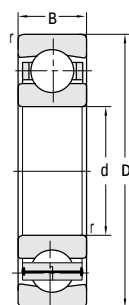
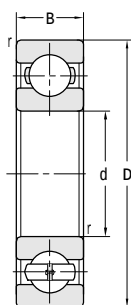
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
190	340	55	4	265	305	1700	2000
	340	55	4	265	305	1700	2000
	340	55	4	265	305	1700	2000
	340	55	4	265	305	1700	2000
	400	78	5	370	440	1600	1900
	400	78	5	360	425	1600	1900
200	250	24	1.5	73.0	84.0	2200	2800
	250	24	1.5	73.0	84.0	2200	2800
	269.5	51	2.1	130	146	1900	2300
	269.5	51	2.1	91.0	109	1900	2300
	279.5	38	2.1	125	144	2000	2600
	280	38	2.1	125	144	2000	2600
	289.5	38	2.1	125	144	2000	2600
	310	34	2	162	182	1900	2400
	310	51	2.1	213	234	1900	2400
	310	51	2.1	213	234	1900	2400
	310	51	2.1	213	234	1900	2400
	360	58	4	285	335	1700	2000
	360	58	4	268	305	1700	2000
	420	80	5	380	460	1600	1800
220	270	24	1.5	75.0	89.0	1900	2400
	270	24	1.5	75.0	89.0	1900	2400
	300	38	2.1	148	176	1900	2400
	300	60	2.1	112	168	1900	2400
	309.5	38	2.1	148	176	1900	2400
	340	37	2.1	170	215	1800	2200
	340	56	3	242	284	1800	2200
	340	56	3	242	284	1800	2200
	400	65	4	297	365	1500	1800
	400	65	4	229	365	1500	1800
	460	88	5	403	520	1300	1600
	460	88	5	403	520	1300	1600
230	329.5	40	2.1	190	227	1600	2000

Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	r _{amax}	
	mm			kg
6238	206	324	3	18.1
6238M	206	324	3	22.2
6238M-DT	206	324	3	21.1
6238M/CRA9	207	323	3	22.2
6338F3	210	382	4	48.4
6338M	210	382	4	50.0
61840MA	207	243	1.5	2.94
61840MA/P4	207	243	1.5	2.94
61040X1F3/C3H	208	260	2	7.91
61040X1M	208	260	2	8.10
61940X1MA-1	210	270	2	7.59
61940MA	210	270	2	7.63
61940X1MA	210	270	2	8.89
16040M	209	301	2	10.3
6040M	211	299	2	14.2
6040MA	210	300	2	14.3
6040	211	299	2	11.7
6240	216	344	3	22.3
6240M	216	344	3	26.4
6340	220	400	4	57.7
61844M	227	263	1.5	3.21
61844M/YA4	227	263	1.5	3.21
61944M	231	289	2	8.37
63944M	231	289	2	11.8
61944X1M	231	298.5	2	9.71
16044	233	327	2	11.7
6044	233	327	2.5	15.5
6044M	233	327	2.5	18.3
6244	236	384	3	31.2
6244M	236	384	3	36.3
6344	240	440	4	71.4
6344/C9	240	440	4	71.4
6646M	241	319	2.1	10.4

Deep Groove Ball Bearing

ZWZ

d 230~280 mm



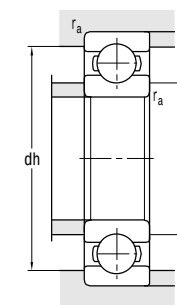
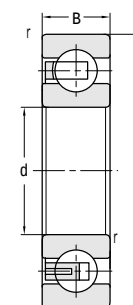
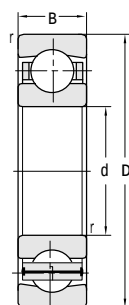
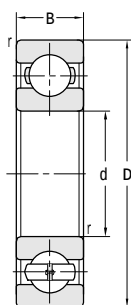
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
230	309.5	40	2.1	145	173	1600	2000
	329.5	40	2.1	190	227	1600	2000
240	300	28	2	103	116	1800	2200
	320	38	2.1	155	192	1800	2200
	359.5	56	3	255	315	1700	2000
	360	37	2.1	185	228	1700	2000
	360	56	3	255	315	1700	2000
	360	56	3	255	315	1700	2000
	440	72	4	350	460	1300	1600
	500	95	5	440	595	1100	1400
	500	95	5	440	595	1100	1400
	500	95	5	440	595	1100	1400
260	320	28	2	122	128	1700	2000
	360	46	2.1	212	269	1600	1900
	360	46	2.1	212	269	1600	1900
	369.5	46	2.1	212	269	1600	1900
	369.5	68	2.1	227	288	1600	1900
	369.5	60	2.1	227	288	1600	1900
	369.5	60	2.1	227	288	1600	1900
	399.5	65	4	294	373	1500	1800
	370	46	2.1	212	269	1600	1900
	400	44	3	230	300	1500	1800
	400	65	4	294	373	1500	1800
	400	65	4	294	373	1500	1800
	480	80	5	430	592	1100	1400
	480	80	5	430	592	1100	1400
	480	80	5	430	592	1100	1400
	540	102	6	500	710	1000	1300
	540	102	6	500	710	1000	1300
280	350	33	2	133	192	1600	1900
	380	46	2.1	215	282	1500	1800
	389.5	46	4	215	282	1500	1800
	389.5	46	4	217	282	1500	1800

Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	ra _{max}	
	mm			kg
6646M-1/C3	241	319	2.1	9.02
6646M/W281	241	319	2.1	10.4
61848M	249	291	2	4.72
61948M	251	309	2	8.50
6048X1M	253	346.5	2.5	20.7
16048M	253	347	2	14.6
6048	253	347	2.5	17.6
6048M	253	347	2.5	20.7
6248	256	424	3	53.3
6348F1	260	480	4	95.0
6348F3	260	480	4	95.0
6348M	260	480	4	96.2
61852M	269	311	2	4.80
61952M	276	349	2	14.4
61952MA	271	349	2	14.4
61952X1M	276	349	2	16.3
62952X3M	271	358.5	2	22.9
62952X1M-1	271	358.5	2	20.3
62952X1F3-2/C3H	271	358.5	2	20.9
6052X1F3	276	384	3	28.5
752	271	359	2	16.5
16052M	272	388	2.5	22.3
6052M	276	384	3	28.4
6052M/YA3	276	384	3	26.6
6252/C3	280	460	4	68.8
6252F1	280	460	4	67.6
6252F3	280	460	4	67.6
6352F1	286	514	5	120
6352F3	286	514	5	120
61856M	289	341	2	7.30
61956M	291	369	2	16.4
61956X1M	291	379	2	18.3
61956X1M/W281	291	379	2	18.3

Deep Groove Ball Bearing

ZWZ

d 280~360 mm



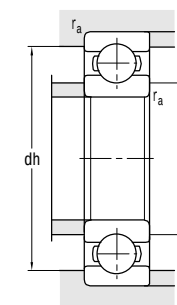
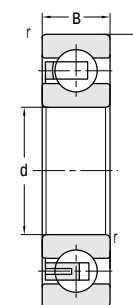
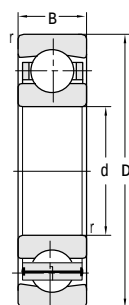
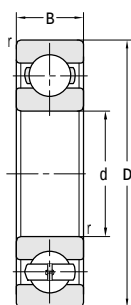
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
280	390	46	4	215	282	1500	1800
	420	44	3	235	330	1300	1600
	420	65	4	305	405	1400	1700
	500	80	5	410	600	1000	1300
	580	108	6	560	840	1000	1200
300	380	38	2.1	165	235	1400	1700
	419.5	56	3	265	370	1400	1700
	420	56	3	265	370	1300	1600
	460	50	4	289	400	1200	1500
	460	74	4	343	480	1200	1500
	460	68	4	343	480	1200	1500
	540	85	5	450	665	950	1200
320	400	38	2.1	164	220	1300	1600
	400	38	2.1	164	220	1300	1600
	412	38	2.5	180	292	1300	1600
	440	37	2.1	210	305	1200	1400
	440	56	3	278	395	1300	1600
	440	65	3	278	395	1300	1600
	460	70	3	300	440	1300	1600
	479.5	74	4	356	518	1100	1400
	480	50	4	275	400	1100	1300
	480	74	4	356	518	1100	1400
	480	74	4	356	518	1100	1400
	560	82	5	435	665	950	1200
	580	92	5	515	780	1000	1200
340	420	38	2.1	170	227	1200	1500
	460	56	3	282	420	1100	1400
	460	56	3	282	420	1100	1400
	520	57	4	335	510	950	1200
	520	82	5	403	620	1000	1300
	620	92	6	545	890	900	1000
360	440	25	1.5	118	210	1130	1450

Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	ra _{max}	
	mm			kg
61956X1M-1	291	379	2	18.4
16056	292	407	2.5	22.5
6056	296	404	3	32.2
6256	300	480	4	72
6356	305	553	5	141
61860M	309	371	2	10.4
61960X1	313	406.5	2.5	20.6
61960	313	407	2.5	20.7
16060/HA	316	444	3	33.1
6060	316	444	3	48.4
6060X2F3	316	444	3	41.5
6260	320	520	4	88.0
61864M	331	389	2	11.4
61864F3	331	389	2	11.1
864	332	400	2.5	12.7
60964	331	428	2	15.5
61964	333	427	2.5	24.9
61964X2	333	427	2.5	28.4
62964X3/YB2	333	447	2.5	39.9
6064X1	336	464	3	50.1
16064	336	466	3	34
6064	336	464	3	50.3
6064/C4YA8	336	464	3	49.6
6076N1F3	400	540	4	65.6
6264	340	560	4	111
61868	352	408	2	11.6
61968	353	447	2.5	27.0
61968MA	353	447	2.5	27.6
16068	356	505	3	44.9
6068	360	500	4	63.4
6268	366	599	4	112
60872	367	432	1.5	6.50

Deep Groove Ball Bearing

ZWZ

d 360~400 mm



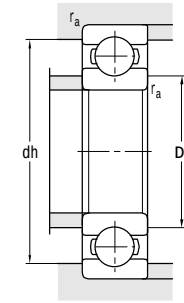
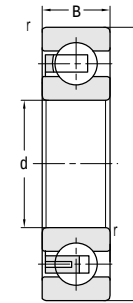
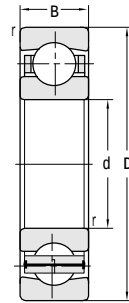
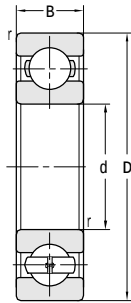
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
360	440	38	2.1	173	242	1100	1400
	480	56	3	282	425	1100	1400
	480	56	3	282	425	1100	1400
	480	56	3	282	425	1100	1400
	480	56	3	282	425	1100	1400
	509.5	70	3	335	510	1000	1300
	530	82	5	355	620	1000	1300
	540	82	5	443	705	1000	1300
	540	57	4	345	545	1000	1200
	540	82	5	443	705	1000	1300
	540	82	5	443	705	1000	1300
	540	82	5	443	705	1000	1300
380	480	46	2.1	232	375	1000	1300
	480	46	2.1	232	375	1000	1300
	520	44	3	241	365	1000	1300
	520	44	3	241	365	1000	1300
	520	65	4	335	550	1000	1300
	520	65	4	335	550	1000	1300
	560	57	4	368	615	940	1100
	560	82	5	443	720	950	1200
	560	82	5	443	720	950	1200
	560	82	5	443	720	950	1200
	560	82	5	443	720	950	1200
	560	82	5	443	720	950	1200
400	500	31	2	159	277	1000	1200
	500	46	2.1	242	397	1000	1200
	500	46	2.1	242	397	1000	1200
	540	44	3	258	435	980	1250
	540	65	4	350	580	950	1200
	540	65	4	350	580	950	1200
	600	90	5	500	830	900	1100
	600	90	5	500	830	900	1100
	600	90	5	500	830	900	1100
	720	130	6	630	1080	750	900

Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	ra _{max}	
	mm			kg
61872	351	429	2	12.2
61972	373	467	2.5	30.9
FL-61972MA	373	467	2.5	28.9
61972/P64	373	467	2.5	30.9
61972F3	373	467	2.5	30.2
62972X3	374	495.5	2.5	48.0
6072X1/C9	382	508	4	59.8
6072F3	380	520	4	64.7
16072	376	524	3	48.4
6072F1	380	520	4	64.7
6072M	380	520	4	65.7
61876F1	391	469	2	19.0
61876F3	391	469	2	19.0
60976	396	504	3	29.2
60976/YA8	396	504	3	29.7
61976/W281	396	504	3	39.8
61976	396	504	3	39.8
16076	394	545	3	50.0
6076F3	398	542	4	65.6
6076N1	398	542	4	69.3
6076N1F3	398	542	4	65.6
6076	398	542	4	69.3
6076M	398	542	4	66.4
60880	410	490	2	15.0
61880	413	488	2	21.0
61880MA	413	488	2	20.2
60980	411	525	2.5	27.5
61980	416	524	3	43.6
61980F3	416	524	3	39.4
6080F1	420	580	4	86.5
6080F3	420	580	4	86.5
6080M	420	580	4	87.9
61280X2MA/YA3	477.45	642.55	2	250

Deep Groove Ball Bearing

ZWZ

d 420~500 mm



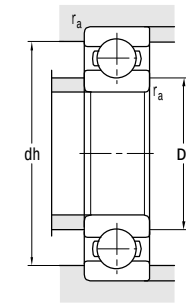
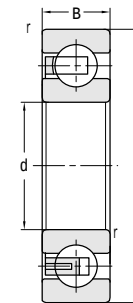
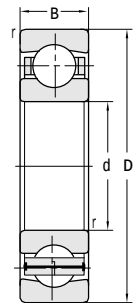
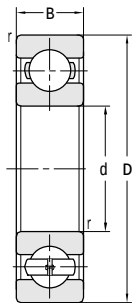
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
420	520	46	2.1	245	420	980	1250
	520	46	2.1	245	420	980	1250
	560	65	4	320	520	900	1100
	560	65	4	320	520	900	1100
	560	65	4	320	520	900	1100
	560	65	4	320	520	900	1100
	620	90	5	490	860	900	1110
	620	90	5	490	860	900	1100
440	540	31	2	155	285	870	1000
	540	46	2.1	245	445	870	1000
	600	50	4	305	550	870	1000
	600	74	4	390	650	900	1100
	600	74	4	380	650	900	1100
	650	94	6	525	880	850	1000
460	580	56	3	303	435	900	1100
	580	56	3	265	435	900	1100
	620	72	4	410	710	870	1100
	620	72	4	410	710	870	1100
	620	74	4	405	680	850	1000
	620	72	4	410	710	850	1000
	680	100	6	560	1020	800	950
	680	100	6	560	1020	800	950
480	600	56	3	315	610	870	1100
	650	78	5	417	743	800	950
	700	100	6	605	1115	740	900
500	620	37	2.1	220	445	800	950
	620	56	3	325	607	800	950
	660	75	5	395	716	750	900
	660	75	5	395	716	750	900
	670	78	5	450	860	760	900
	670	78	5	450	845	760	900
	720	100	6	575	1020	750	900

Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	ra _{max}	
	mm			kg
61884	431	508	2	22.2
FL-61884MA	431	508	2	23.0
61984F3/C9	436	544	3	41.9
61984F3	436	544	3	41.9
61984MA	436	544	3	46.2
FL-61984MA/C3	436	544	3	46.2
6084	438	602	4	90.5
6084M	438	602	4	92.0
60888	450	531	2	16.5
61888	453	528	2	22.3
60988	456	585	3	46.1
61988F3	456	584	3	60.5
61988	455	585	3	61.6
6088	466	624	5	108
61892	473	567	2.5	34.3
61892MA	473	567	2.5	34.7
61992	475	604	3	63.0
FL-61992X2MA	475	604	3	62.8
61992F3	476	604	3	63.0
61992X2MA	476	604	3	62.8
6092F1	483	657	5	121
6092F3	483	657	5	121
61896	492	587	2.5	36.0
61996F3	498	632	4	74.1
6096	504	676	5	133
608/500	510	609	2	20
618/500M	513	607	2.5	37.3
619/500X3F1	520	650	4	68.8
619/500X3F3	520	650	4	68.8
619/500	519	651	4	79
619/500F3	519	651	4	79.7
60/500	526	694	5	135

Deep Groove Ball Bearing

ZWZ

d 500~600 mm



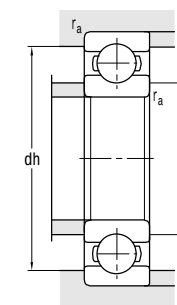
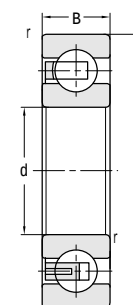
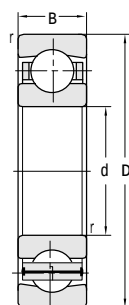
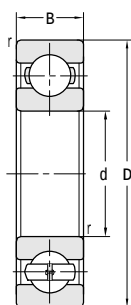
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
500	720	100	6	580	1100	750	900
	720	100	6	580	1100	750	900
530	650	56	3	325	640	750	900
	650	56	3	325	640	750	900
	650	56	3	325	640	750	900
	710	57	4	410	810	700	850
	710	82	5	470	885	700	850
	710	82	5	470	885	700	850
	758	100	6	580	1130	680	830
	760	100	6	580	1130	680	830
	780	112	6	635	1260	670	810
	780	112	6	680	1300	670	800
	780	112	6	680	1300	670	800
	780	112	6	680	1300	670	800
560	680	37	2.1	220	460	710	860
	680	56	3	331	667	700	850
	680	56	3	331	667	700	850
	680	56	3	331	667	700	850
	680	56	3	331	667	700	850
	750	85	5	475	925	670	800
	750	85	5	475	925	670	800
	820	115	6	670	1370	630	750
	820	115	6	630	1500	630	750
	820	115	6	670	1370	630	750
	820	115	6	670	1370	630	750
	820	115	6	670	1370	630	750
570	799	115	6	641	1280	480	600
600	700	100	3	345	710	670	800
	730	42	3	260	550	670	800
	730	42	3	261	485	670	800
	730	60	3	350	735	670	800
	730	60	3	350	735	670	800
	869	110	6	680	1450	650	750
	870	118	6	680	1450	600	700
	870	118	6	692	1450	600	700

Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	ra _{max}	
	mm			kg
60/500N1MAS	523	697	5	136
60/500-BG	523	697	5	135
618/530F1	543	637	2.5	41.1
618/530MA	543	637	2.5	42.1
618/530F3	543	637	2.5	41.1
609/530	545	696	3	60.0
619/530F1	548	692	4	91.6
619/530F3	548	692	4	91.6
60/530X3	543	745	5	149
60/530X3-1	556	754	5	153
60/530	552	757	5	188
60/530N1MA	556	754	5	185
60/530N1MA/YAB	553	757	5	185
608/560	572	670	2	30.0
618/560F1	573	667	2.5	42.1
618/560F3	573	667	2.5	42.1
618/560MA	573	667	2.5	42.7
618/560/P5	573	667	2.5	42.8
619/560F1	578	732	4	110
619/560F3	578	732	4	110
60/560F3	586	794	5	205
60/560N1MAS/C9	586	794	5	208
60/560F1	586	794	5	205
66/570X1M	598	770	5	181
D66/600	610	690	2.5	60.6
608/600	614	718	2.5	41.0
608/600MA	614	718	2.5	41.0
618/600	613	717	2.5	52.7
618/600/W33X	613	717	2.5	52.2
60/600X3/C3H	623	846	5	219
60/600	623	847	5	233
60/600/HC	623	847	5	233

Deep Groove Ball Bearing

ZWZ

d 600~750 mm



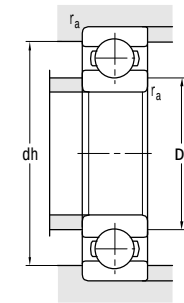
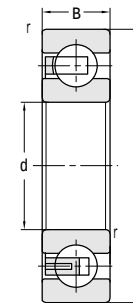
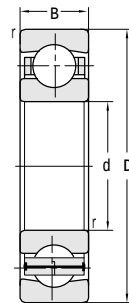
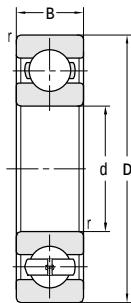
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
600	870	118	6	725	1510	600	700
600.3	819	90	5	560	1130	650	750
630	780	48	3	365	710	640	760
	780	69	4	424	926	630	750
	780	69	4	424	926	630	750
	780	69	4	420	760	630	750
	850	71	5	475	1050	600	710
	850	100	6	610	1330	600	710
	920	128	7.5	800	1750	550	660
650	920	118	6	750	1600	550	660
670	820	69	4	424	960	560	670
	820	69	4	424	960	560	670
	820	69	4	424	960	560	670
	920	118	6	750	1600	530	630
	820	69	4	424	960	560	670
	820	69	4	424	960	560	670
	900	73	5	540	1210	580	700
	900	103	6	670	1450	530	630
	980	136	7.5	885	1900	500	600
	980	136	7.5	885	1900	500	600
	980	136	7.5	885	1900	500	600
710	870	74	4	456	1056	530	630
	870	74	4	456	1056	530	630
	870	74	4	456	1056	530	630
	950	78	5	545	1280	500	610
	950	106	6	645	1510	500	610
	1030	140	7.5	935	2180	490	560
750	920	78	5	515	1225	480	610
	1000	112	6	745	1790	490	570
	1090	150	7.5	975	2370	450	530

Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	ra _{max}	
	mm			kg
60/600/HCE-1	623	847	5	236
66/600.3/HCYA13	623	796	5	147
608/630	643	767	2.5	41.0
618/630	645	765	3	76.5
618/630MA	645	765	3	77.8
618/630L/P5	645	765	3	65.7
609/630	649	832	4	112
619/630	654	829	5	163
60/630	657	891	6	280
66/650N1	678	891	5	254
618/670	685	805	3	82.2
618/670F1	685	805	3	80.8
618/670F3	685	805	3	80.8
66/650N1	673	897	5	254
618/670Q1	685	805	3	82.8
618/670/C4	685	805	3	82.2
609/670	689	882	4	143
619/670MA	693	877	5	194
60/670F3	698	952	6	361
60/670N1	698	952	6	366
60/670N1/YB2	698	952	6	366
618/710F3	725	855	3	96.1
618/710	725	855	3	98.1
618/710MA	725	855	3	98.8
609/710	729	932	4	148
619/710	732	928	5	218
60/710	738	1002	6	375
618/750	766	901	4	114
619/750	774	977	5	260
60/750	778	1061	6	490

Deep Groove Ball Bearing

ZWZ

d 800~1000 mm



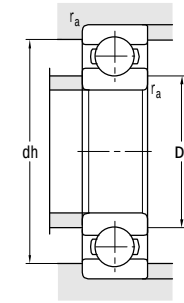
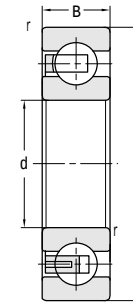
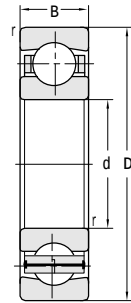
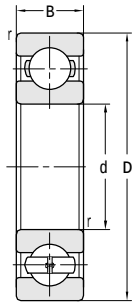
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
800	980	57	4	390	990	430	510
	980	82	5	545	1340	430	510
	980	82	5	545	1360	430	510
	980	82	5	545	1360	430	510
	1060	115	6	815	2100	430	500
	1060	115	6	800	1960	430	500
	1150	115	7.5	950	2080	500	550
	1150	155	7.5	985	2530	400	480
	1150	115	7.5	845	2080	500	550
850	1030	57	4	385	1000	450	500
	1030	82	5	555	1300	450	530
	1030	82	5	545	1400	430	500
	1030	82	5	545	1400	430	500
	1030	82	5	555	1300	430	500
	1030	82	5	555	1300	450	530
	1120	118	6	815	2150	400	480
	1220	165	7.5	1090	2980	370	430
900	1090	85	5	600	1540	380	450
	1180	122	6	830	2270	360	440
	1280	170	7.5	1080	3120	330	410
950	1150	90	5	660	1620	360	430
	1150	90	5	660	1620	360	430
	1150	90	5	660	1620	360	430
	1200	90	5	660	1620	360	430
	1250	132	7.5	985	2850	330	410
	1250	132	7.5	930	2430	340	400
	1360	180	7.5	1145	3315	310	380
960	1160	90	5	630	1550	360	430
1000	1220	71	5	540	1550	350	400
	1220	100	6	680	1720	340	400
	1220	100	6	635	1720	340	400

Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	ra _{max}	
	mm			kg
608/800	815	966	3	100
618/800	820	960	4	132
618/800MA	820	960	4	133
618/800MA/P5	820	960	4	133
619/800	823	1037	5	280
619/800F3	823	1037	5	289
160/800X2F1	820	1130	6	427
60/800	828	1120	6	540
160/800X2F3	820	1130	6	427
608/850	865	1015	3	75
618/850	870	1010	4	151
618/850MA	868	1012	4	141
618/850MA/C9	868	1012	4	141
618/850F1	868	1012	4	147
618/850F3	870	1010	4	144
619/850	873	1098	5	315
60/850	879	1190	6	640
618/900F3	918	1072	4	155
619/900	923	1156	5	355
60/900	928	1252	6	725
618/950F1/C9	968	1132	4	188
618/950F3/C9	968	1132	4	188
618/950F1/C9	968	1132	4	188
618/950X1F3	968	1182	4	252
619/950	979	1222	6	395
619/950/C9	978	1222	6	460
60/950	979	1330	6	850
66/960MA	978	1142	4	199
608/1000	1018	1201	4	175
618/1000F3	1023	1197	5	230
618/1000F1	1026	1194	5	230

Deep Groove Ball Bearing

ZWZ

d 1000~1500 mm



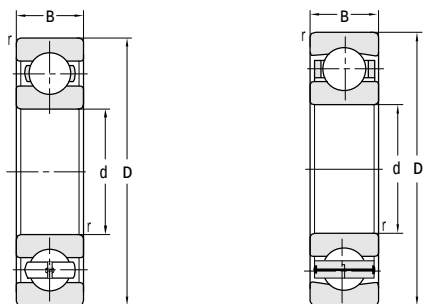
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
1000	1220	100	6	680	1720	340	400
	1320	103	6	800	2340	330	380
	1320	140	7.5	950	2530	330	380
	1420	185	7.5	1320	3900	280	340
1060	1280	100	6	710	2140	310	350
	1400	150	7.5	985	3030	290	330
	1500	195	9.5	1310	3750	260	320
	1500	195	9.5	1310	3750	260	320
1120	1360	106	6	725	2180	290	350
	1360	106	6	910	2500	290	350
	1460	150	7.5	1010	3070	270	330
	1580	200	9.5	1430	4480	250	300
1180	1420	106	6	920	2580	320	360
	1420	106	6	920	2580	320	360
	1420	106	6	920	2580	320	360
	1540	160	7.5	1115	3630	210	270
1240	1480	112	6	930	2660	300	340
1250	1500	112	6	830	2740	210	270
	1750	218	9.5	1590	5000	200	250
1280	1560	150	6	939	2750	220	280
1320	1600	150	6	956	2830	200	260
	1600	122	6	955	2830	200	260
	1720	128	7.5	1180	4060	190	230
	1720	175	7.5	1140	3500	360	450
1400	1700	132	7.5	1070	3980	190	230
	1820	185	9.5	1550	5520	180	230
1500	1820	140	7.5	1190	4310	170	210

Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	ra _{max}	
	mm			kg
618/1000MA	1023	1197	5	234
609/1000	1023	1297	5	405
619/1000	1028	1292	6	548
60/1000	1028	1392	6	925
618/1060	1084	1259	5	265
619/1060	1089	1371	6	615
60/1060	1094	1466	8	1090
60/1060/HBYB2	1094	1466	8	1141
618/1120	1143	1336	5	310
618/1120M	1143	1336	5	313
619/1120	1148	1432	6	640
60/1120	1155	1546	8	1245
618/1180M	1203	1397	5	317
618/1180F1	1206	1394	5	310
618/1180F3	1203	1397	5	310
619/1180	1209	1513	6	765
618/1240X1	1266	1454	5	356
618/1250	1274	1479	5	390
60/1250M/P5	1290	1710	8	1708
66/1280F1/C9	1306	1534	5	606
618/1320X2F1/C9	1343	1577	5	520
618/1320F3	1343	1377	5	512
609/1320	1348	1691	6	835
619/1320F3/YB2	1348	1692	6	1112
618/1400	1427	1672	6	620
619/1400	1434	1777	8	1260
618/1500	1528	1791	6	695

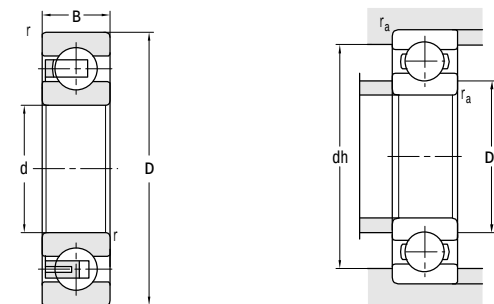
Deep Groove Ball Bearing

ZWZ

d 1500~1700 mm



Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
1500	1950	195	9.5	1680	6220	160	190
1600	1950	155	7.5	1240	4750	150	180
	2060	200	9.5	1820	6300	260	300
	2060	200	9.5	1820	6300	260	300
1700	2060	160	7.5	1240	4950	130	160
	2180	212	9.5	1950	7680	120	150

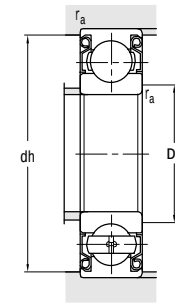
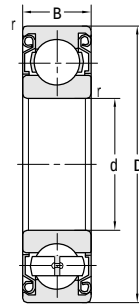
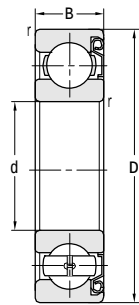


Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	ra _{max}	
	mm			kg
619/1500	1535	1915	8	1515
618/1600	1627	1923	6	975
619/1600	1634	2026	8	1711
619/1600F3	1634	2026	8	1681
618/1700	1729	2032	6	1110
619/1700	1735	2145	8	1930

Deep Groove Ball Bearing(With Shields)

ZWZ

d 10–30 mm



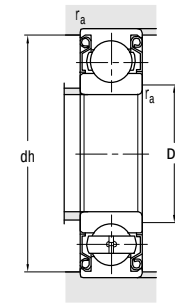
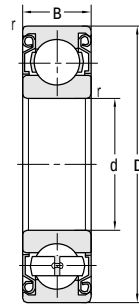
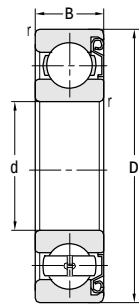
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
10	30	9	0.6	6.50	3.00	24000	30000
12	32	10	0.6	6.50	3.00	22000	28000
	32	10	0.6	6.50	3.00	22000	28000
15	35	11	0.6	8.00	4.00	19000	24000
	35	11	0.6	8.00	4.00	19000	24000
17	40	12	0.6	9.75	4.8	17000	20000
	40	12	0.6	9.75	4.8	17000	20000
20	42	12	0.6	9.55	5.00	17000	19000
	42	12	0.6	9.40	5.00	17000	19000
	47	14	1	13.0	6.70	15000	18000
	47	14	1	13.0	6.70	15000	18000
	52	15	1	13.8	6.90	13000	16000
	62	16	1	18.2	10.0	10000	13000
25	62	16	1	18.2	10.0	10000	13000
	47	12	0.6	11.4	6.28	15000	18000
	47	12	0.6	10.1	5.85	15000	15000
	52	15	1	14.3	8.00	12000	18000
	52	15	1	14.3	8.00	12000	15000
28	62	17	1.1	22.4	11.5	11000	14000
	58	16	1.1	12.0	9.00	11000	13800
30	68	18	1.1	19.0	13.0	9500	12000
	55	13	1	13.2	7.96	12000	15000
	55	13	1	13.2	7.96	12000	15000
	62	16	1	19.5	11.3	10000	13000
	62	16	1	19.5	11.3	10000	13000
	62	16	1	19.5	11.3	10000	13000
	62	16	1	19.5	11.3	10000	13000
	72	19	1.1	28.4	15.4	9000	11000
	72	19	1.1	28.4	15.4	9000	11000

Designations	Abutment and fillet dimensions				Weight
	D _{smin}	D _{smax}	dh _{max}	r _{amax}	
	mm				kg
6200-2Z	13.5	14.5	26	0.6	0.0270
6201-Z	16	16.5	28	0.6	0.0369
6201-2Z	16	16.5	28	0.6	0.0373
6202-Z	19		31	0.6	0.0432
6202-2Z	19		31	0.6	0.0450
6203-2Z	21		36	0.6	0.0665
6203-Z	21		36	0.6	0.0665
6004-Z-DW	24.5		37.5	0.6	0.071
6004-2Z	23.2		38.8	0.6	0.0704
6204-2Z	25		42	1	0.111
6204-Z	25		42	1	0.109
6304-2Z	27		45	1	0.152
6304X3-2Z	35.6		56.4	1	0.255
6304X3/C3	35.6		56.4	1	0.252
6005-Z	28.2		43.8	0.6	0.0769
6005-2Z	28.2		43.8	0.6	0.0783
6205-2Z	30		47	1	0.135
6205-Z	30		47	1	0.136
6305-2Z	32		55	1	0.218
62/28-ZN	35		51	1	0.179
63/28-ZN	35		61	1	0.292
6006-2Z	35		50	1	0.118
6006-Z	34.6		50.4	1	0.119
6206-2Z	35		57	1	0.207
6206-Z	35		57	1	0.208
6206-ZS	35		57	1	0.205
6306-2Z	36.5		65.5	1	0.357
6306-Z	36.5		65.5	1	0.356

Deep Groove Ball Bearing(With Shields)

ZWZ

d 35-50 mm



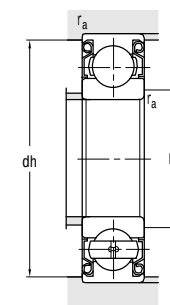
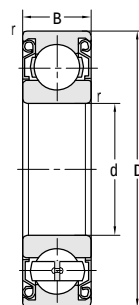
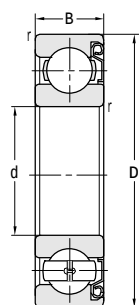
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{0r}	Grease	Oil
mm				kN		r/min	
35	62	14	1	16.0	10.3	10000	13000
	62	14	1	16.0	10.3	10000	13000
	72	17	1.1	26.0	14.7	9000	11000
	72	17	1.1	26.0	14.7	9000	11000
	80	21	1.5	33.4	19.2	8500	10000
	80	21	1.5	33.4	19.2	8500	10000
	100	25	1.5	51.5	29.0	7100	8500
	100	25	1.5	51.5	29.0	7100	8500
40	68	15	1	16.8	11.6	9500	12000
	68	15	1	16.8	11.6	9500	12000
	80	18	1.1	31.2	18.2	8500	10000
	80	18	1.1	31.2	18.2	8500	10000
	80	18	1.1	31.2	18.2	5600	10000
	90	23	1.5	41.0	24.0	7500	9000
	90	23	1.5	41.0	24.0	7500	9000
	90	23	1.5	41.0	24.0	7500	9000
45	75	16	1	21.2	14.0	9000	11000
	75	16	1	21.2	14.0	9000	11000
	85	19	1.1	33.7	20.7	7500	9000
	85	19	1.1	33.7	20.7	7500	9000
	85	19	1.1	33.7	20.7	7500	9000
	100	25	1.5	48.5	29.5	6700	8000
	100	25	1.5	52.5	30.0	6700	8000
	100	25	1.5	52.5	30.0	6700	8000
	100	25	1.5	52.5	30.0	6700	8000
	120	29	2	73.0	43.0	6000	7000
50	80	16	1	22.0	16.3	8500	10000
	80	16	1	22.0	16.3	8500	10000
	90	20	1.1	35.6	22.3	7000	8500
	90	20	1.1	35.6	22.3	7000	8500
	90	20	1.1	35.6	22.3	7000	8500
	110	27	2	62.0	38.0	6300	7500
	110	27	2	62.0	38.0	6300	7500
	110	27	2	62.0	38.0	6300	7500

Designations	Abutment and fillet dimensions				Weight
	D _{smin}	D _{smax}	dh _{max}	r _{amax}	
	mm				kg
6007-2Z	39.6		57.4	1	0.154
6007-Z/C3	40		57	1	0.154
6207-2Z	41.5		65.5	1	0.397
6207-Z	41.5		65.5	1	0.390
6307-2Z	43		72	1.5	0.476
6307-Z	43		72	1.5	0.466
6407-Z	46		89	1.5	0.972
6407-2Z	46		89	1.5	0.976
6008-2Z	45		63	1	0.191
6008-RZ	45		63	1	0.196
6208-2Z	46.5	50.5	73.5	1	0.374
6208-Z	46.5		73.5	1	0.367
6208-2RZ	46.5	50.5	73.5	1	0.408
6308-2Z	48	50.5	82	1.5	0.651
6308-2Z/YA7	48	52	82	1.5	0.641
6308-Z	48		82	1.5	0.644
6009-2Z	50.8		69.2	1	0.245
6009-2Z/C3	50.8		69.2	1	0.245
6209-2Z	51.5		78.5	1	0.439
6209-Z	51.5	54	78.5	1	0.434
6209-2Z/YA7	51.5		78.5	1	0.433
6309-2Z-NY	54		91	1.5	0.851
6309-2Z	53		92	1.5	0.850
6309-Z	53	56.5	92	1.5	0.847
6309-2Z/YA7	53		92	1.5	0.831
6409-Z	58		107	2	1.57
6010-2Z	54.6		75.4	1	0.257
6010-Z	54.6		75.4	1	0.257
6210-2Z	56.5		83.5	1	0.484
6210-Z	56.5	58	83.5	1	0.479
6210-2Z/YA7	56.5		83.5	1	0.483
6310-2Z	59		101	2	1.134
6310-Z	59	63	101	2	1.12

Deep Groove Ball Bearing(With Shields)

ZWZ

d 50–65 mm



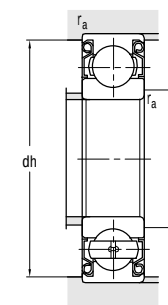
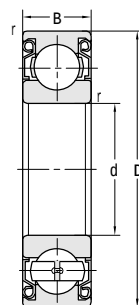
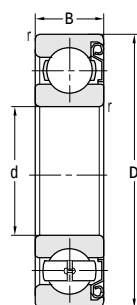
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{0r}	Grease	Oil
mm				kN		r/min	
50	110	27	2	62.0	38.0	6300	7500
	130	31	2.1	88.0	52.0	5300	6300
55	90	18	1.1	29.0	20.7	7500	9000
	90	18	1.1	29.0	20.7	7500	9000
	100	21	1.5	44.3	27.8	7500	9000
	100	21	1.5	44.3	27.8	7500	9000
	100	21	1.5	44.3	27.8	7500	9000
	100	21	1.5	44.3	27.8	7500	9000
	120	29	2	71.5	45.0	5600	6700
	120	29	2	71.5	45.0	5600	6700
	120	29	2	71.5	45.0	5600	6700
	120	29	2	71.5	45.0	5600	6700
	140	33	2.1	95.0	60.0	5000	6000
	140	33	2.1	95.0	60.0	5000	6000
60	85	13	1	17.0	15.1	7500	9000
	95	18	1.1	30.0	23.0	6700	8000
	110	22	1.5	53.0	36.0	6000	7000
	110	22	1.5	53.0	36.0	6000	7000
	110	22	1.5	53.0	36.0	6000	7000
	130	31	2.1	82.0	50.0	5000	6000
	130	31	2.1	82.0	50.0	5000	6000
	130	31	2.1	82.0	50.0	5000	6000
	150	35	2.1	107	68.5	4800	5600
	150	35	2.1	107	68.5	4800	5600
65	100	18	1.1	32.0	25.0	6300	7500
	120	23	1.5	57.0	40.0	5300	6300
	120	23	1.5	57.0	40.0	5300	6300
	120	23	1.5	57.0	40.0	5300	6300
	120	23	1.5	57.0	40.0	5300	6300
	120	23	1.5	57.0	40.0	5300	6300
	120	23	1.5	57.0	40.5	5300	6300
	140	33	2.1	92.5	59.5	5000	6000
	140	33	2.1	92.5	59.5	5000	6000

Designations	Abutment and fillet dimensions				Weight
	D _{smin}	D _{smax}	dh _{max}	r _a _{max}	
	mm				kg
6310-2Z/YA7	59		101	2	1.11
6410-2Z	64		116	2	1.92
6011-Z	61		84	1	0.388
6011-2Z	61		84	1	0.386
6211-Z	63	65	92	1.5	0.621
6211-2Z	63		92	1.5	0.639
6211-2Z/YA7	63		92	1.5	0.631
6211F2-2Z/C9S2	63		92	1.5	0.631
6311-2Z	64		111	2	1.38
6311-Z	64	69	111	2	1.38
6311-2Z/YA7	64		111	2	1.36
6311-2RZ	64		111	2	1.37
6411-Z	69		126	2	2.32
6411-2Z	69		126	2	2.28
61912-2Z	64.6		80.4	1	0.198
6012-2Z	66		89	1	0.417
6212-Z	68	71	102	1.5	0.794
6212-2Z	68		102	1.5	0.800
6212-2Z/YA7	68		102	1.5	0.792
6312-2Z	71	76	119	2	1.71
6312-2Z/YA7	71		119	2	1.67
6312-Z	71		119	2	1.75
6412-Z	74		136	2	2.77
6412-2Z	74		136	2	2.75
6013-2Z	71.5		93.5	1	0.459
6213-2Z	73		112	1.5	1.06
FL-6213-2Z	73		112	1.5	1.06
6213-Z	73		112	1.5	0.690
6213-Z/HQ1	73		112	1.5	1.05
6213-2Z/YA7	73	79	112	1.5	0.679
6213F2-2Z/C9S2	73		112	1.5	1.06
6313-2Z/YA7	76	81	129	2	2.19
6313-2Z	76		129	2	2.12

Deep Groove Ball Bearing(With Shields)

ZWZ

d 65-85 mm



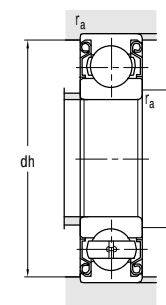
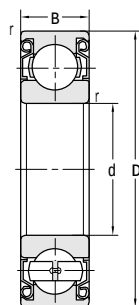
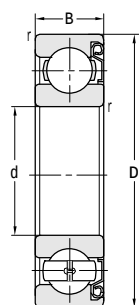
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{0r}	Grease	Oil
mm				kN		r/min	
65	140	33	2.1	92.5	59.5	5000	6000
70	110	20	1.1	38.0	30.0	6000	7000
	125	24	1.5	61.2	43.2	5000	6000
	125	24	1.5	61.2	43.2	5000	6000
	125	24	1.5	61.2	43.2	5000	6000
	127	28.4	1.5	56.0	46.5	5000	6000
	150	35	2.1	107	68.0	4500	5300
	150	35	2.1	107	68.0	4500	5300
	150	35	2.1	107	68.0	4500	5300
	150	35	2.1	107	68.0	4500	5300
75	105	16	1	26.5	23.5	6000	7000
	115	20	1.1	38.0	31.0	5600	6700
	115	20	1.1	38.0	31.0	5600	6700
	130	25	1.5	66.0	50.0	4800	5600
	130	25	1.5	66.0	50.0	4800	5600
	130	25	1.5	66.0	50.0	4800	5600
	130	25	1.5	66.0	50.0	4800	5600
	130	25	1.5	66.0	50.0	4800	5600
	160	37	2.1	113	77	4300	5000
	160	37	2.1	113	77	4300	5000
	160	37	2.1	113	77	4300	5000
	160	37	2.1	113	77	4300	5000
80	110	16	1	27.6	25.3	5600	6700
	125	22	1.1	47.5	40.0	5300	6300
	125	22	1.1	47.5	40.0	5300	6300
	140	26	2	71.5	54.5	4500	5300
	140	26	2	71.5	54.5	4500	5300
	140	26	2	71.5	54.5	4500	5300
	140	26	2	71.5	54.5	4500	5300
	170	39	2.1	125	86.5	3800	4500
	170	39	2.1	125	86.5	3800	4500
	170	39	2.1	125	86.5	3800	4500
	170	39	2.1	125	86.5	3800	4500
	170	39	2.1	125	86.5	3800	4500
85	120	18	1.1	31.0	29.0	5000	6000

Designations	Abutment and fillet dimensions				Weight
	D _{smin}	D _{smax}	dh _{max}	r _{amax}	
	mm				kg
6313-Z	76		129	2	2.12
6014-2Z	76		104	1	0.625
6214-2Z/YA7	78	83	117	1.5	1.11
6214-2Z	78		117	1.5	1.13
6214-Z	78		117	1.5	1.13
6214-ZSC	78		117	1.5	1.29
6314-2Z	81		139	2	2.62
6314-2Z/P6CMV2	81		139	2	2.51
6314-2Z/YA7	81	87	139	2	2.59
6314-Z	81		139	2	2.59
61915-2Z	79.6		100	1	0.357
6015-2Z	81.5		108.5	1	0.624
6015-Z	81.5		108.5	1	0.658
6215-2Z	83		122	1.5	1.21
6215-Z	83		122	1.5	1.21
6215-Z/HQ1	83		122	1.5	1.22
6215-2Z/YA7	83	87	122	1.5	1.19
6215F2-2Z/C9S2	83		122	1.5	1.16
6315-2Z	86		149	2	3.11
6315-Z	86		149	2	3.03
6315-2Z/YA7	86	94	149	2	3.12
61916-2Z	84.6		105	1	0.357
6016-Z	86.5		118.5	1	0.860
6016-2Z	86.5		118.5	1	0.875
6216-2Z/YA7	89	94	131	2	1.45
6216-2Z	89		131	2	1.50
FL-6216-2Z	89		131	2	1.50
6216-Z	89		131	2	1.47
6316-Z	91		159	2	3.36
6316-2Z	91		159	2	3.72
6316-2Z/YA7	91	100	159	2	3.69
61917	92		113	1	0.557

Deep Groove Ball Bearing(With Shields)

ZWZ

d 85~100 mm



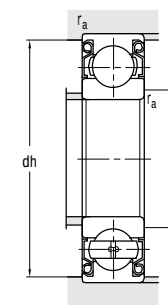
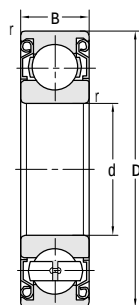
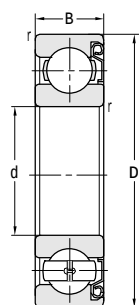
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
85	130	22	1.1	47.5	40.0	5000	6000
	150	28	2	84.0	62.0	4300	5000
	150	28	2	84.0	62.0	4300	5000
	150	28	2	84.0	62.0	4300	5000
	180	41	3	102	96.5	4300	5000
	180	41	3	102	96.5	4300	5000
	180	41	3	102	96.5	4300	5000
	180	41	3	102	96.5	4300	5000
	180	41	3	102	96.5	4300	5000
	180	41	3	102	96.5	4300	5000
90	140	24	1.5	58.5	50.1	4800	5600
	140	24	1.5	58.5	50.0	4800	5600
	160	30	2	97.0	72.0	3800	4500
	160	30	2	97.0	72.0	3800	4500
	160	30	2	97.0	72.0	3800	4500
	190	43	3	144	108	3400	4000
	190	43	3	144	108	3400	4000
	190	43	3	144	108	3400	4000
	190	43	3	144	108	3400	4000
	190	43	3	144	108	3400	4000
95	130	18	1.1	33.8	33.0	4600	5400
	145	24	1.5	78.5	54.0	4500	5300
	145	24	1.5	78.5	54.0	4500	5300
	145	24	1.5	78.5	54.0	4500	5300
	170	32	2.1	110	80.0	3600	4300
	170	32	2.1	110	80.0	3600	4300
	170	32	2.1	110	80.0	3600	4300
	200	45	3	152	118	3200	3800
	200	50	3	152	118	3200	3800
	200	45	3	152	118	3200	3800
	200	45	3	152	118	3200	3800
	200	45	3	152	118	3200	3800
	200	45	3	152	118	3200	3800
	200	45	3	152	118	3200	3800
100	150	24	1.5	62.4	52.9	4300	5000
	150	24	1.5	62.4	52.9	4300	5000
	150	24	1.5	62.4	52.9	4300	5000

Designations	Abutment and fillet dimensions				Weight
	D _{smin}	D _{smax}	dh _{max}	r _{amax}	
	mm				kg
6017-ZZ	92		123	1	0.965
6217-Z	94		141	2	1.85
6217-ZZ	94	99	141	2	1.85
6217-ZZ/YA7	94	99	141	2	1.81
6317-Z	98		167	2.5	4.35
6317-ZZ	98		167	2.5	4.35
6317-ZZ/YA7	98	107	167	2.5	4.35
IS-6317-ZZ/P6CMV2	98		167	2.5	4.30
6317-ZZ/P6CMV2	98		167	2.5	4.30
6018-Z	98		132	1.5	1.16
6018-ZZ	98		132	1.5	1.17
6218-Z	99		151	2	2.21
6218-ZZ	99		151	2	2.21
6218-ZZ/YA7	99	105	151	2	2.20
6318-ZZ/YA7	103	114	177	2.5	5.04
6318M-Z/YA8P54	103		177	2.5	6.39
6318-ZZ	103		177	2.5	5.07
6318-Z	103		177	2.5	5.04
61919-Z	101.5		123.5	1	0.579
6019-Z	103		137	1.5	1.16
6019-Z/HQ1	103		137	1.5	1.31
6019-ZZ	103		137	1.5	1.17
6219-Z	106	111	159	2	2.63
6219-ZZ	106	111	159	2	2.65
6219-ZZ/YA7	106	111	159	2	2.62
6319-ZZ	108	113	187	2.5	5.93
6319X2K-ZZ	77		187	2.5	6.40
6319-Z	109		186	2.5	5.87
IS-6319	109		186	2.5	5.48
6319-ZZ/YA7	108	113	187	2.5	5.89
6020-ZZ	108		142	1.5	1.17
6020-ZZ/C9	108	110	142	1.5	1.13
6020-Z	108		142	1.5	1.15

Deep Groove Ball Bearing(With Shields)

ZWZ

d 100~130 mm



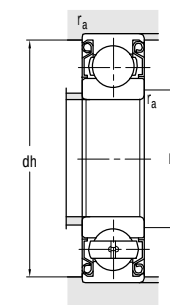
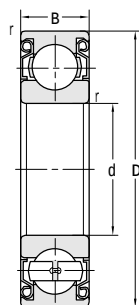
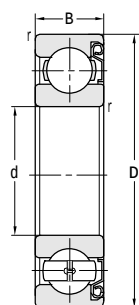
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{0r}	Grease	Oil
mm				kN		r/min	
100	180	34	2.1	122	93.0	3400	4000
	180	34	2.1	122	93.0	3400	4000
	180	34	2.1	122	93.0	3400	4000
	215	47	3	173	141	2800	3600
	215	47	3	173	141	2800	3600
	215	47	3	173	141	2800	3600
105	160	26	2	73.0	62.8	4000	4800
	190	36	2.1	135	102	3200	3800
	225	49	3	240	154	2800	3400
110	150	20	1.1	40.5	41.5	3900	4600
	150	20	1.1	40.5	41.5	3900	4600
	170	28	2	82.0	73.5	3800	4500
	170	28	2	82.0	70.6	3800	4500
	170	28	2	82.0	70.6	3800	4500
	175	31	2.3	158	176	3800	4500
	175	31	2.3	158	176	3800	4500
	200	38	2.1	145	114	2800	3400
	200	38	2.1	145	114	2800	3400
	240	50	3	195	176	2400	3000
	240	50	3	195	176	2400	3000
	240	50	3	195	176	2400	3000
120	150	16	1	24.5	28.0	3800	4500
	150	16.1	1	24.5	28.0	3800	4500
	165	22	1.1	53.0	54.0	3400	4000
	165	22	1.1	53.0	54.0	3400	4000
	180	28	2	85.5	80.0	3400	4000
	180	28	2	85.5	80.0	3400	4000
	180	28	2	85.5	80.0	3400	4000
	215	40	2.1	154	130	2800	3400
	215	40	2.1	154	130	2800	3400
	260	55	3	217	196	2400	3000
	260	55	3	217	196	2400	3000
	260	55	3	217	196	2400	3000
130	180	24	1.5	65.0	67.0	3400	4000
	180	24	1.5	65.0	67.0	3400	4000

Designations	Abutment and fillet dimensions				Weight
	D _{smin}	D _{smax}	dh _{max}	r _{amax}	
	mm				kg
6220-Z	111		169	2	3.26
6220-2Z	111		169	2	3.26
6220-2Z/YA7	111	118	169	2	3.23
6320-Z	113		202	2.5	7.12
6320-2Z	113	131	202	2.5	7.14
6320-2Z/YA7	113	131	202	2.5	7.13
6021-2Z/C3Z1	116		149	2	1.66
6221-2Z	117		178	2	3.94
6321-2Z	119		211	2.5	8.12
61922	116.5		143.5	1	0.918
61922M	116.5		143.5	1	1.01
6022-Z/HQ1	119		161	2	2.40
6022-Z	119		161	2	1.94
6022-2Z	119		161	2	1.96
6022X3M-Z	122		163	2.3	2.67
60722	122		163	2.3	2.67
6222-Z	121		189	2	4.58
6222-2Z	121		189	2	4.61
6322-2Z	123		227	2.5	9.72
6322-2Z/YA7	123	146	227	2.5	9.69
61824-2Z	125		145	1	0.566
61824-Z	125		145	1	0.565
61924	126.5		158.5	1	1.21
61924M	126.5		158.5	1	1.54
6024-2Z	129	132	171	2	2.15
6024-Z	129	132	171	2	2.09
6024-Z/C9	129	132	171	2	2.09
6224-2Z	131		204	2	5.24
6224-Z	132		203	2	5.25
6324-2Z	134		246	2.5	12.6
61926-2Z	137		173	1.5	1.55
61926-Z	137		173	1.5	1.57

Deep Groove Ball Bearing(With Shields)

ZWZ

d 130~240 mm



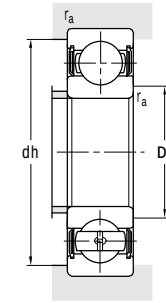
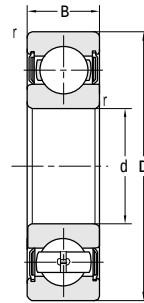
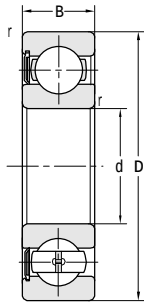
Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
130	200	33	2	109	98	3200	3800
	200	33	2	109	98	3200	3800
	230	40	3	153	134	2600	3200
	230	40	3	153	134	2600	3200
	280	58	4	240	226	2300	2800
140	175	18	1.1	34.0	40.0	3400	4000
	190	24	1.5	64.0	67.5	2800	3300
	210	33	2	106	102	2700	3200
	250	42	3	166	150	2400	3000
	300	62	4	329	246	2000	2600
150	225	35	2.1	123	117	2600	3200
	270	45	3	189	183	2000	2600
	320	65	4	360	280	1900	2400
160	200	20	1.1	49.5	59	2400	3000
	220	28	2	83.5	90	2300	2900
	220	28	2	83.5	90	2300	2900
170	260	42	2.1	161	166	2200	2800
190	290	46	2.1	191	211	2000	2600
200	310	51	2.1	213	234	1900	2400
	310	34	2	157	179	1900	2400
	360	58	4	288	335	1700	2000
240	300	28	2	103	116	1800	2200

Designations	Abutment and fillet dimensions				Weight
	D _{smin}	D _{smax}	dh _{max}	r _{amax}	
	mm				kg
6026-Z	139		191	2	3.29
6026-2Z	139		191	2	3.29
6226-Z	144		216	2.5	6.35
6226-2Z	144		216	2.5	6.36
6326-2Z	150		265	3	15.4
61828-2Z	146		169	1	0.845
61928-2Z	147		183	1.5	1.72
6028-Z	149		201	2	3.46
6228-2Z	154		236	2.5	7.50
6328-2Z	157		283	3	18.9
6030-2Z	161		214	2	4.16
6230-2Z	164		256	2.5	10.0
6330-2Z	167		303	3	21.0
61832-2Z	165		215	1	1.25
61932-Z	169		211	2	2.69
61932-2Z	169		211	2	2.72
6034-Z	181		249	2	6.82
6038-2Z	201		279	2	9.11
6040-2Z	211		299	2	11.6
16040M-Z	209		301	2	10.3
6240-Z	216		344	3	22.5
61848M-Z/YA8	249		291	2	4.64

Deep Groove Ball Bearing(With Seals)

ZWZ

d 12~28 mm



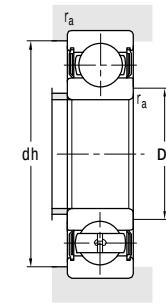
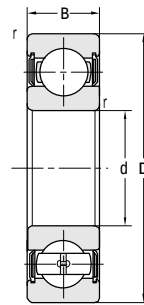
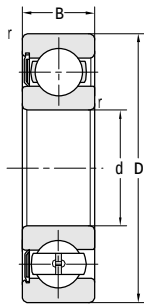
Principal dimensions				Basic load ratings		Limit speed ratings
d	D	B	r _{min}	C _r	C _{or}	Grease
mm				kN		r/min
12	28	8	0.3	5.18	2.26	26000
14	47	14	1	13.6	6.6	11000
17	40	12	0.6	9.55	4.8	12000
	40	14	1	9.6	4.6	12000
18	75	16	1	20	14	5500
20	47	14	1	13.0	6.70	10000
	47	14	1	13.0	6.70	15000
22	56	16	1.1	18.4	9.25	13000
25	37	7	0.3	3.60	2.64	17000
	47	12	0.6	10.6	5.00	9500
	47	12	0.6	11.4	6.28	13000
	52	15	1	14.3	8.00	8500
	52	15	1	14.3	8.00	8500
	52	15	1	14.3	8.00	8500
	52	15	1	14.3	8.00	8500
	52	15	1	14.3	8.00	8500
	52	15	1	14.3	8.00	8500
	62	17	1.1	22.4	11.5	7500
	62	17	1.1	22.4	11.5	7500
	62	17	0.4	22.4	11.5	7500
	62	17	1.1	22.4	11.5	7500
	68	18	1.1	20.2	12.9	7500
25.5	58	16	1	20.5	11.1	11000
	58	16	1	20.5	11.1	11000
28	68	18	1.1	32.5	13.0	6300
	68	18	1.1	25.0	13.9	6300

Designations	Abutment and fillet dimensions				Weight
	D _{smin}	D _{smax}	dh _{max}	r _{amax}	kg
	mm				
6001-2RS	14	14.5	26	0.3	0.023
6303-2RS	19		42	1	0.114
6203-2RS 6203X2-FS/YA6	21	24	36	0.6	0.065
	22	21	35	1	0.077
60/18-2RSN/YAD	24.5	51.3	68.5	1	0.365
6204-2RS 6204-2RZ	25.6		41.4	1	0.121
	25.6		41.4	1	0.110
63/22-2RS/C3-SAGW	29	30.8	49	1	0.183
61805-2RZ	27		35	0.3	0.022
6005-2RS	29	31	43	0.6	0.079
6005-Z	29		43	0.6	0.077
6205-2RS	30		47	1	0.130
6205-2RZ	30		47	1	0.125
6205-RS2	30		47	1	0.130
6205-RS	30		47	1	0.130
6205-2RS2	30		47	1	0.130
6205-2RS/FR	30		47	1	0.130
6305-2RS	31.5		55.5	1	0.232
6305-RS	31.5		55.5	1	0.223
6305TN1-2RS/YA6	32		55	1	0.211
6305-2RZ	32		55	1	0.222
6305X3/C3YA5	32		61	1	0.296
66/25.5-2RS-BYD 66/25.5-2RS/P53Z2	31		52.5	1	0.177
	31		52.5	1	0.186
63/28-RS/HA 63/28-2RS1/C3-DZ	34.5		61.5	1	0.305
	34.5	39.5	61.5	1	0.301

Deep Groove Ball Bearing(With Seals)

ZWZ

d 28~35 mm



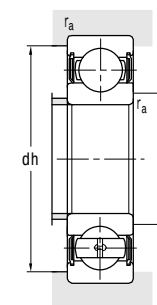
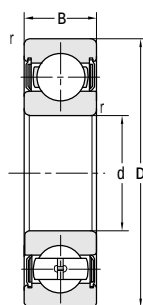
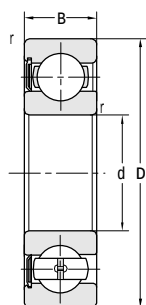
Principal dimensions				Basic load ratings		Limit speed ratings
d	D	B	r _{min}	C _r	C _{or}	Grease
mm				kN		r/min
28	68	18	1.1	23.6	13.1	6300
	68	18	1.1	23.5	13.0	6300
30	55	13	1	13.2	7.96	8000
	55	13	1	13.2	7.96	12000
	62	16	1	19.5	11.3	10000
	62	16	1	19.5	11.3	10000
	62	16	1	19.5	11.3	10000
	62	16	1	19.5	11.3	10000
	62	16	1	19.5	11.3	10000
	62	16	1	19.5	11.3	10000
	62	16	1	19.5	11.3	10000
	62	20	1	19.0	11.0	10000
	72	19	1.1	28.4	15.4	6300
	72	19	1.1	28.4	15.4	6300
	72	19	1.1	28.4	15.4	6300
	72	19	1.7	28.4	15.4	6300
	72	19	1.7	28.4	15.4	6300
	75	20	0.5	25.3	17.5	6300
	75	20	0.5	32.5	18.0	9000
32	80	23	0.5	36.5	20.0	9000
	72	25	1	26.7	15.0	9400
	75	20	1.5	22.0	16.0	8800
	80	23	0.5	27.9	19.6	8400
	80	23	0.3	36.5	19.6	8400
35	62	14	1	16.0	10.3	7000
	62	14	1	16.0	10.3	7000
	64	14	1	16.0	10.3	7000
	72	17	1.1	26.0	14.7	6300
	72	17	1.1	26.0	14.7	6300
	72	17	1.1	26.0	14.7	6300
	72	17	1.1	26.0	14.7	6300
	72	17	1.1	26.0	14.7	6300
	72	17	1.1	26.0	14.7	6300
	80	21	1.5	33.4	19.2	6000

Designations	Abutment and fillet dimensions				Weight
	D _{smin}	D _{smax}	dh _{max}	r _{amax}	kg
	mm				
63/28-2RS-DZ	34.5		61.5	1	0.302
63/28-RS	34.5		61.5	1	0.300
6006-2RS	35		50	1	0.118
6006-2RZ	34.6		50.4	1	0.118
6206-RS	35		56	1	0.212
6206-2RS	35		56	1	0.214
6206-2RS-DZ	35		56	1	0.214
6206-RS2	35		56	1	0.212
6206-2RZ	35	38	56	1	0.224
6206-2RS1/C3-DZ	35	38	56	1	0.200
62206-2RS	35	38	56	1	0.255
6306-2RS	36.5	41.5	65.5	1	0.355
6306-RS	36.5	41.5	65.5	1	0.353
6306-2RZ	36.5	41.5	65.5	1	0.355
6306-2RZ/YA6	36.5	41.5	65.5	1	0.355
6306-2RS/YA6	36.5	41.5	65.5	1	0.338
6306X3-2RSN/Y	36.5		68.5	0.5	0.475
450706K	36.5		68.5	0.5	0.474
4507/32KU	37.5		72.5	0.5	0.534
66/32WB1-2RSZ/C9	39		69.5	1	0.408
63/32-2RSN	41.5		65.5	1.5	0.413
63/32X3-2RSN/C9Y	37.5		72.5	0.5	0.534
63/32X3-2RSN/HAY	35		77	0.3	0.534
6007-2RZ	39.6		57.4	1	0.169
6007-2RS	39.6		57.4	1	0.175
6007X1-2RS/C3	39.6		57.4	1	0.196
6207-RS	41.5		65.5	1	0.296
6207-RS2	41.5		65.5	1	0.296
6207-2RS2	41.5		65.5	1	0.299
6207-2RS	41.5		65.5	1	0.299
6207SC-2RS	41.5		65.5	1	0.401
6307-RS	43		72	1.5	0.480

Deep Groove Ball Bearing(With Seals)

ZWZ

d 35~50 mm



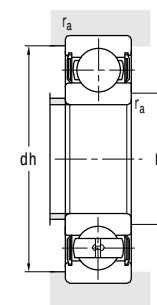
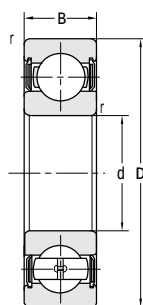
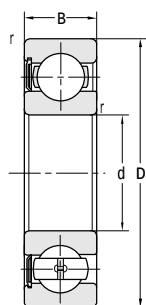
Principal dimensions				Basic load ratings		Limit speed ratings
d	D	B	r _{min}	C _r	C _{or}	Grease
mm				kN		r/min
35	80	21	1.5	33.4	19.2	6000
40	68	15	1	16.8	11.6	6300
	80	18	1.1	31.2	18.2	5600
	80	18	1.1	31.2	18.2	5600
	80	18	1.1	31.2	18.2	5600
	80	21	1.1	31.2	18.2	5600
	85	22	1.5	32.5	20.4	5000
	90	23	1.5	41.0	24.0	5000
	90	23	1.5	41.0	24.0	5000
	90	23	1.5	41.0	24.0	7500
	109.5	31	1.5	41.0	24.0	5000
	110	27	2	67.5	36.0	6700
45	75	16	1	20.0	14.0	5600
	75	16	1	20.0	14.0	5600
	75	16	1	20.0	14.0	5600
	75	16	1	20.0	14.0	5600
	85	19	1.1	33.7	20.7	5300
	85	19	1.1	33.7	20.7	7500
	85	19	1.1	33.7	20.7	5300
	85	19	1.1	33.7	20.7	5300
	85	19	1.1	33.7	20.7	5300
	85	19	1.1	33.7	20.7	5300
	85	21	1.1	33.7	20.7	5300
	100	25	1.5	52.5	30.0	4500
	100	25	1.5	52.5	30.0	4500
	100	25	1.5	48.5	29.5	7000
	100	36	1.5	51.0	31.0	4500
	127	31.5	1.5	48.5	29.5	4500
50	65	7	0.3	5.85	5.69	8100
	72	12	0.6	13.4	11.2	9900
	80	16	1	22.0	16.3	5000
	80	16	1	22.0	16.3	5000
	90	20	1.1	35.6	22.3	4800
	90	33	1.1	35.6	22.3	4800

Designations	Abutment and fillet dimensions				Weight
	D _{smin}	D _{smax}	dh _{max}	r _{amax}	kg
	mm				
6307-2RS	43		72	1.5	0.491
6008-2RS	44.6		63.4	1	0.206
6208-RS	46.5	50.5	73.5	1	0.385
6208-RS2	46.5	50.5	73.5	1	0.385
6208-2RS	46.5	50.5	73.5	1	0.408
62208X2WB-2RS/P53	46.5	50.5	73.5	1	0.525
6308X3-2RS	48		78	1.5	0.704
6308-RS	48		82	1.5	0.643
6308-2RS	48		82	1.5	0.641
6308-2RZ	48		82	1.5	0.643
6308X3-2RS/YA6	48		82	1.5	1.480
6408-2RS/YA5	49		101	2	1.300
6009-RS	50		70	1	0.245
6009-RS2	50		70	1	0.245
6009-2RS	50		70	1	0.250
6009-2RS/FR	50		70	1	0.250
6209-RS	51.5		78.5	1	0.441
6209-2RZ	51.5		78.5	1	0.442
6209-RS2	51.5		78.5	1	0.435
6209-2RS	51.5		78.5	1	0.442
6209-2RSK	51.5		78.5	1	0.433
62209X2WB-2RS/P53	51.5		78.5	1	0.544
6309-2RS	53		92	1.5	0.861
6309-RS	53		92	1.5	0.853
6309-2RZ	53		92	1.5	0.861
62309-2RS	53		92	1.5	1.150
6309X3-2RS/YA6	53		112	1.5	2.040
FL-61810-2RS/P6	53		62	0.3	0.0552
FL-61910-2RS/P5	54		68	0.6	0.135
6010-2RZ	54.6		75.4	1	0.255
6010-2RS	54.6		75.4	1	0.258
6210-2RS	56.5		83.5	1	0.498
62210X2-XRS2	57		83	1	0.727

Deep Groove Ball Bearing(With Seals)

ZWZ

d 50–65 mm



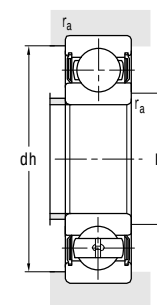
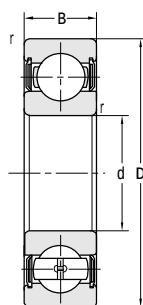
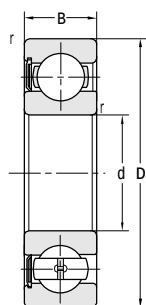
Principal dimensions				Basic load ratings		Limit speed ratings
d	D	B	r _{min}	C _r	C _{or}	Grease
mm				kN		r/min
50	110	27	2	62.0	38.0	4800
	110	27	2	62.0	38.0	4800
	110	27	2	62.0	38.0	4800
	163	46	2	57.5	35.0	4600
55	90	18	1.1	29.0	20.7	4500
	100	21	1.5	44.3	27.8	4300
	120	29	2	71.5	45.0	3800
	120	29	2	71.5	45.0	3800
	120	49.2	2	71.5	45.0	3800
	120	49.2	2	67.0	42.0	3800
	140	33	2.1	89	54	3600
60	95	18	1.1	30.0	23.0	4300
	95	18	1.1	30.0	23.0	4300
	95	18	1.1	30.0	23.0	4300
	95	18	1.1	30.0	23.0	4300
	95	18	1.1	30.0	23.0	4300
	110	22	1.5	53.0	36.0	4000
	110	22	1.5	53.0	36.0	4000
	110	22	1.5	53.0	36.0	4000
	110	22	1.5	53.0	36.0	4000
	110	22	1.5	53.0	36.0	4000
	110	22	1.5	53.0	36.0	4000
	110	22	1.5	53.0	36.0	4000
	110	22	1.5	53.0	36.0	4000
	110	22	1.5	53.0	36.0	4000
	130	31	2.1	82.0	48.5	3400
	130	31	2.1	82.0	48.5	3400
	130	31	2.1	77.0	49.0	5200
65	85	10	0.6	11.9	11.5	6300
	90	13	1.1	16.0	15.0	7800
	100	18	1.1	32.0	25.0	4000
	120	23	1.5	57.0	40.0	3500
	120	23	1.5	57.0	40.0	3500
	140	33	2.1	95.0	59.5	3200
	140	33	2.1	95.0	59.5	3200

Designations	Abutment and fillet dimensions				Weight
	D _{smin}	D _{smax}	dh _{max}	r _{amax}	kg
	mm				
6310-2RS	59	63	101	2	0.926
6310-2RS/HAC3V2YA7	59	63	101	2	1.07
6310TN1-2RZ/C4L	59	63	101	2	1.08
6310X3-2RS	67.5	96	2	4100	5.84
6011-2RS	61		84	1	0.389
6211-2RS	63		92	1.5	0.653
6311-2RS	64		111	2	1.370
6311-RS	64		111	2	1.380
63311TN1-2RZ/C3H	64		111	2	2.190
63311-2RZ/C3L	66		109	2	2.270
6411-2RS/YA5	66		129	2	2.450
6012-2RS	66.5		88.5	1	0.446
6012-RS	66.5		88.5	1	0.430
FL-6012-2RS	66.5		88.5	1	0.446
FL-6012/C3	66.5		88.5	1	0.416
FL-6012/P6	66.5		88.5	1	0.416
6212-2RS	68		102	1.5	0.780
6212-2RS/HAC3V2YA7	68		102	1.5	0.788
6212WB-2RS/P53	68		102	1.5	0.974
6212/HAC3YAB-2RSZ	68		102	1.5	0.928
6212-2RS2/HAYA57	68		102	1.5	0.792
6212-2RS2	69		101	1.5	0.780
FL-6212-2RS/P6	69		101	1.5	0.800
6312-2RS	71		119	2	1.750
6312-RS	71		119	2	1.760
6312-2RZ	71		119	2.1	1.750
FL-61813-2RS/P6	69		81	0.6	0.129
FL-61913-2RS/P5	71.5		83.5	1	0.212
6013-2RS	71		94	1	0.444
6213-2RS	73		112	1.5	1.070
6213-2RSR/C3Z1YA6	73		112	1.5	1.140
6313-2RS	76		129	2	2.360
6313-RS	76		129	2	2.250

Deep Groove Ball Bearing(With Seals)

ZWZ

d 65–95 mm



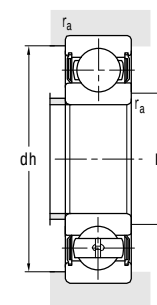
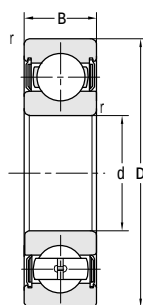
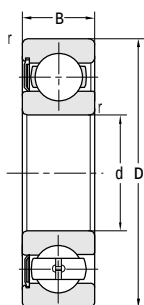
Principal dimensions				Basic load ratings		Limit speed ratings
d	D	B	r _{min}	C _r	C _{or}	Grease
mm				kN		r/min
65	140	33	2.1	95.0	59.5	3200
70	110	20	1.1	38.0	30.0	3600
	125	24	1.5	61.2	43.2	3400
	130	41	1.5	61.0	45.0	3200
	130	41	1.5	61.0	45.0	3200
	150	35	2.1	107	68.0	3000
	150	35	2.1	107	68.0	3000
75	115	20	1.1	40.0	32.2	3400
	115	20	1.1	40.0	32.2	3400
	130	25	1.5	66.0	50.0	3200
	130	25	1.5	66.0	50.0	4500
	130	25	1.5	61.0	46.0	3200
	130	25	1.5	61.0	46.0	3200
80	160	37	2.1	113	71.0	2800
	125	22	1.1	47.5	40.0	3200
	125	22	1.1	47.5	40.0	3200
	140	26	2	71.5	54.5	3000
	170	39	2.1	125	86.5	2600
85	170	39	2.1	125	86.5	2600
	130	22	1.1	47.5	40.0	3000
	150	28	2	84.0	62.0	2800
	180	41	3	102	96.5	2400
	180	41	3	102	96.5	2400
90	180	41	3	133	96.5	2400
	140	24	1.5	58.5	50.0	2800
	160	30	2	97.0	72.0	2600
95	190	43	3	144	108	2400
	145	24	1.5	60.5	54.0	2800
	170	32	2.1	110	80.0	2400

Designations	Abutment and fillet dimensions				Weight
	D _{smin}	D _{smax}	dh _{max}	r _a _{max}	kg
	mm				
6313-2RZ	77		128	2	2.360
6014-2RS	76.5		103.5	1	0.623
6214-2RS	78		117	1.5	1.140
180714	78.5		121.5	1.5	2.050
63214X3-2RS	78.5		121.5	1.5	2.050
6314-2RS	81		139	2	2.600
6314-RS	81		139	2	2.620
6314-2RZ	82		138	2	2.600
6015-2RS	81		108.5	1	0.604
6015-2RZ	81		109	1	0.604
6215-2RS	83		122	1.5	1.230
FL-6215-2RS/P6	83		122	1.5	1.230
6215-2RZ	84		121	1.5	1.230
6215-2RS/HAC3V2YA7	84	88	121	1.5	1.180
6315-2RS	87		148	2	3.00
6016-2RS	86.5		118.5	1	0.856
6016-2RZ	86		119	1	0.856
6216-2RS	89		131	2	1.51
6316-RS	91		159	2	3.71
6316-2RS	91		159	2	3.75
6017-2RS	91.5		123.5	1	0.966
6217-2RS	94		141	2	1.81
6317-RS	98		167	2.5	4.32
6317-2RS	98		167	2.5	4.35
6317-2RZ	99		166	2.5	4.35
6018-2RS	98		132	1.5	1.180
6218-2RS	101		149	2	2.25
6318-2RS	104	114	176	2.5	5.10
6019-2RS/C3	102		138	1.5	1.17
6219-2RS	106		159	2	2.69

Deep Groove Ball Bearing(With Seals)

ZWZ

d 95~150 mm

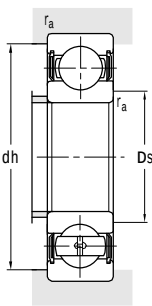
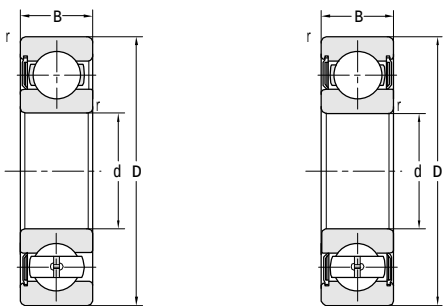


Principal dimensions				Basic load ratings		Limit speed ratings
d	D	B	r _{min}	C _r	C _{0r}	Grease
mm				kN		r/min
95	200	45	3	152	118	2400
	200	45	3	152	118	2400
100	150	24	1.5	62.4	52.9	2600
	180	34	2.1	122	93.0	2400
	180	34	2.1	115	88.0	2400
	215	47	3	173	141	2800
105	160	26	2	73.0	62.8	2400
	190	36	2.1	135	102	3200
	225	49	3	240	154	2800
110	140	16	1	26.7	28.2	2600
	170	28	2	82.0	70.6	2400
	200	38	2.1	145	114	3000
	240	50	3	195	167	2600
120	165	22	1.1	48.6	50.5	3900
	180	28	2	85.5	80.0	2200
	215	40	2.1	154	130	2100
	215	40	2.1	155	132	2800
	215	40	2.1	154	130	2800
	260	55	3	217	196	2000
130	165	18	1.1	33	37.7	3800
	200	33	2	109	98	3200
	230	40	3	153	134	2600
	230	40	3	153	134	2600
140	250	42	3	166	150	2400
	250	42	3	166	150	2400
150	225	35	2.1	123	117	1600
	270	45	3	189	183	2000

Designations	Abutment and fillet dimensions				Weight
	D _{smin}	D _{smax}	dh _{max}	r _{amax}	kg
	mm				
6319-RS	108		187	2.5	5.68
6319-2RS	108		187	2.5	5.92
6020-2RS	108		142	1.5	1.210
6220-2RS	111		169	2	3.270
6220-2RS/CRA9	111		169	2	3.370
6320-2RS	113		202	2.5	7.19
6021-2RS	114		151	2	1.670
6221-2RS	117		178	2	3.870
6321-2RS	119		211	2.5	8.150
61822-2RS2/S3YA7	115		135	1	0.517
6022-2RS	119		161	2	1.98
6222-2RS	122		188	2	4.620
6322-2RS	124		226	2.5	9.770
FL-61924-2RS/P5	126		129	1	1.200
6024-2RS	129		171	2	2.240
6224-2RZ	132		203	2	5.330
6224-2RS/YB2	132		203	2	5.430
6224-2RS	132		203	2	5.330
6324-2RS	134		246	2.5	12.700
FL-61826-2RS/P5	136		159	1	0.816
6026-2RS	139		191	2	3.33
6226-2RZ/Z1	144		216	2.5	6.40
6226-2RS	144		216	2.5	6.40
6228-2RZ/Z1	154		236	2.5	7.52
6228-2RS	154		236	2.5	7.52
6030-2RS	161		214	2	4.050
6230-2RS	164		256	2.5	10.1

Deep Groove Ball Bearing(With Seals)

d 160~190 mm



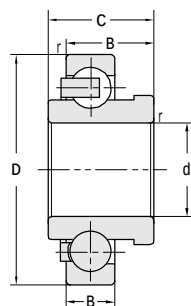
Principal dimensions				Basic load ratings		Limit speed ratings
d	D	B	r _{min}	C _r	C _{or}	Grease
mm				kN		r/min
160	240	38	2.1	143	138	1600
180	320	52	4	240	260	1800
	320	52	4	240	260	1800
190	290	46	2.1	194	204	2000

Designations	Abutment and fillet dimensions				Weight
	D _{smin}	D _{smax}	d _{hmax}	r _{amax}	kg
	mm				
6032-2RS	169		231	2	5.11
6236-2RS	197		303	3	15.0
6236-2RZ/Z1	197		303	3	15.0
6038-RS	200		280	2	9.13

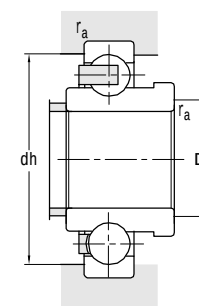
Deep Groove Ball Bearing(With Seals Wide Inner Ring Bearing)

ZWZ

d 55–600 mm



Principal dimensions					Basic load ratings		Limit speed ratings
d	D	B	C	r _{min}	C _r	C _{0r}	Grease
mm					kN		r/min
25	65	18	17	1.1	25.0	13.9	7000
26	68	21.5	14.5	1	31.0	17.0	6500
30	59	13	22	0.4	10	8	11000
	59	13	22	0.4	10	8	11000
32	72	25	19	0.5	26.7	15.0	9000
40	80	27	21	1.1	29.1	17.9	8500
	94	26	31	1.5	41.0	24.0	7500
	100	23	36	2	41.0	24.0	7000
40.5	62	34	12	0.5	11.7	9	9300
45	85	27	21	1.1	29.3	19.5	7500
50	129	27	34	2.5	62.0	38.0	4100
55	100	55.6	25	1.5	33.5	25.1	4300
	151	33	45	4	55.0	46.0	3600
60	110	65.1	27	1.5	40.5	36	5500
	179	31	45	2.5	63	53	3400
63.5	99.5	29	19.4	1.5	26.5	35.1	4100
76.352	130	33.325	30.15	0.762	66.0	60.0	3000
600	700	100	50	4	260	710	205

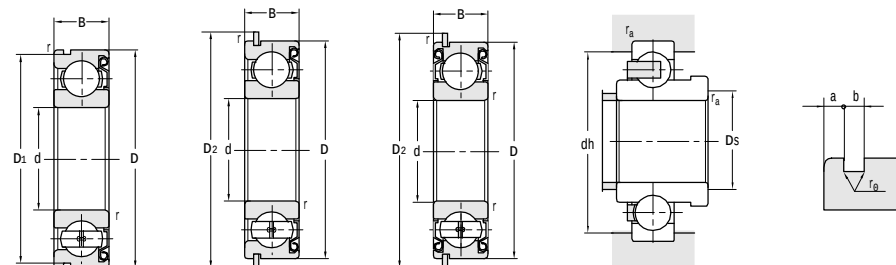
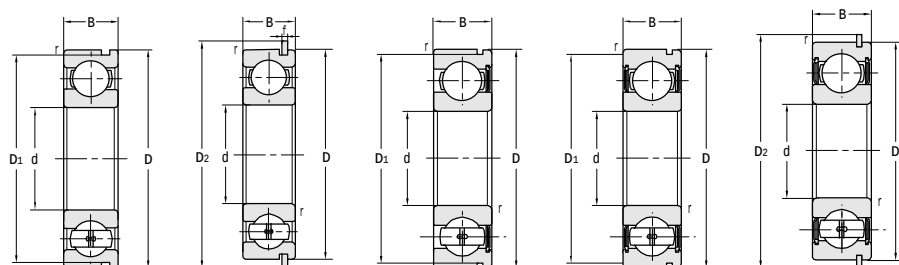


Designations	Abutment and fillet dimensions				Weight
	Dsmin	Dsmax	dhmax	ramax	
	mm				kg
6605WB1-2RS/P63-SAGW	31		59	1	0.27
6605X2WBTN1/HA	32		62	1	0.272
1-0005	34		55	0.4	0.191
1-0005ZC	34		55	0.4	0.307
66/32WB1-2RSZ/C9	36.5		67.5	0.5	0.408
62208X2WB-2RS/P53	46		74	1	0.525
6308X3WB1TN1-2RS/YA6	48		86	1.5	0.817
6308/YAD	46		91	2	1.36
1-0004	45		57.5	0.5	0.16
62209X2WB-2RS/P53	51		79	1	0.544
CZ5012934-2RS	61		118	2.5	2.09
62211WB-2RSZN	63		92	1.5	1.08
CZ5515145-2RS	71		135	3	3.94
1-0001	68		102	1.5	1.35
CZ6017945-2RS	71		168	2.5	6.1
76TM6429	73		90	1.5	0.603
66/76X4WB1-2RZ/YA3	85		125	0.762	1.46
D66/600	616		684	3	60.6

Deep Groove Ball Bearing(With Snap Groove)

ZWZ

d 20~40 mm



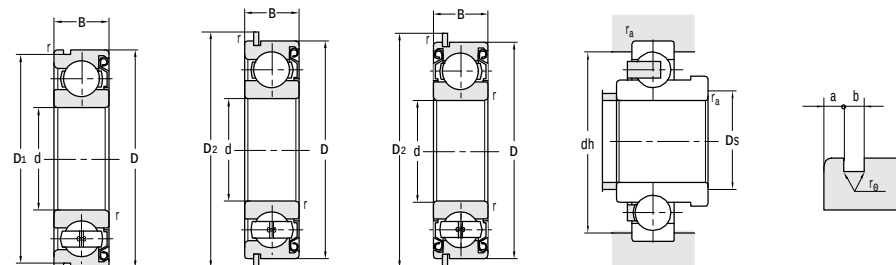
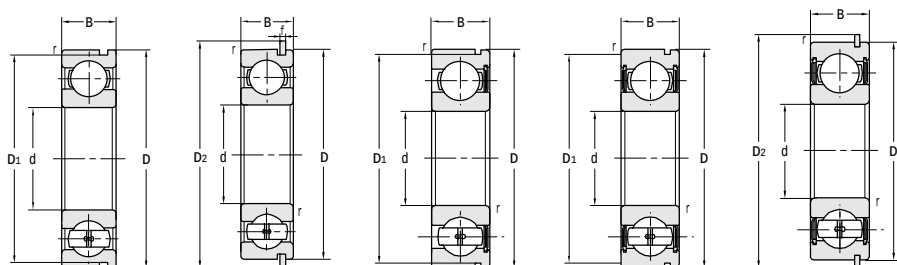
Principal dimensions				Basic load ratings		Snap ring dimensions		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	D2	f	Grease	Oil
mm				kN				r/min	
20	47	14	1	13.0	6.70			15000	18000
25	52	15	1	14.3	8.00	57.9	1.12	12000	15000
	52	15	1	14.3	8.0			12000	15000
	52	15	1	14.3	8.00			12000	15000
	60	19	1.1	21.0	10.8			11000	14000
	80	21	1.5	37.5	19.0			9000	11000
35	72	17	1.1	26.0	14.7			9000	11000
28	58	16	1	15.6	9.00	78.6	1.7	11000	14000
	68	18	1.1	23.5	13.0			11000	14000
30	72	19	1.1	26.7	15.0			9000	11000
	72	19	1.1	28.4	15.4			9000	11000
	75	20	0.5	32.5	18.0			9000	11000
	75	21	1.5	33.0	17.5			9000	11000
	90	23	1.5	44.5	23.0			8500	10000
32	75	20	1.5	28.5	16.0	78.1	1.7	9000	11000
	75	20	1.5	28.5	16.0			9000	11000
	80	23	2	36.5	19.6			9000	11000
	80	23	0.5	36.5	20.0			9000	11000
35	62	14	1	16.3	10.5	96.5	2.46	9000	11000
	72	17	1.1	26.0	14.7			9000	11000
	72	17	1.1	26.0	14.7			9000	11000
	72	17	1.1	26.0	14.7			9000	11000
	72	17	1.1	26.0	14.7			9000	11000
	72	17	2	26.0	15.3			9000	11000
	72	17	1.1	26.0	14.7			9000	11000
	80	21	1.5	33.4	19.2			8500	10000
	80	21	1.5	33.4	19.2			8500	1000
	90	21	1.5	37.1	20.7			8500	1000
	100	25	1.5	55.5	29.5			7000	8500
40	68	15	1	16.8	11.6			9500	12000

Designations	Abutment and fillet dimensions				Snap ring groove dimensions			Weight
	Dbmin	dhmax	ramax	D1max	a	b	r0max	
	mm							kg
6204N	25	42	1	44.6	2.46	1.35	0.4	0.110
6205N/C3	30	47	1	49.73	2.46	1.35	0.4	0.131
6205N	30	47	1	49.5	2.4	1.5	0.4	0.131
6205-ZNR	30	47	1	49.73	2.46	1.35	0.4	0.136
6305X3WBTN1-ZN	30	53	1	57.3	2.46	2.16	0.5	0.255
6405N	33	72	1.5	76.81	3.28	1.9	0.6	0.527
6207-2RSN	41.5	65.5	1	68.81	3.28	1.9	0.6	0.298
62/28-ZN	33	53	1	55.6	2.46	1.35	0.4	0.179
63/28-ZN	34	62	1	64.82	3.28	1.9	0.6	0.294
6306-2RZN/C4	36.5	65.5	1	68.81	3.205	1.98	0.6	0.340
6306-ZNR	36.5	65.5	1	68.81	3.28	1.9	0.6	0.365
450706K	36.5	68.5	0.5	71.7	3.2	1.9	0.6	0.474
6306X3-2RSN/HAY	36.5	68.5	1.5	71.83	3.25	1.9	0.6	0.477
6406N	38	82	1.5	86.79	3.28	2.7	0.6	0.715
63/32N	38.5	68.5	1.5	71.83	3.28	1.9	0.6	0.391
63/32-2RSN	38.5	68.5	1.5	71.83	3.28	1.9	0.6	0.413
63/32X3-2RSN/HAY	38.5	73.5	2	76.5	4.7	2	0.6	0.534
4507/32KU	38.5	73.5	0.5	76.5	4.7	2	0.6	0.534
6007-RSNB	40	57	1	59.61	2.08	1.9	0.6	0.161
6207-2RSN	41.5	65.5	1	68.81	3.28	1.9	0.6	0.298
6207-XRSN	41.5	65.5	1	68.81	3.28	1.9	0.6	0.294
6207N	41.5	65.5	1	68.81	3.28	1.9	0.6	0.291
6207-2RSNR/P53YAB	41.5	65.5	2	68	3.3	1.9	0.3	0.305
6207NKTN1-2RZ/C3H	41.5	65.5	2	68.81	3.28	1.9	0.6	0.278
6307N	43	72	1.5	76.81	3.28	1.9	0.6	0.443
6307-ZN	43	72	1.5	76.81	3.28	1.9	0.6	0.443
6307X1NR	43	75	1.5	76.81	3.28	1.9	0.6	0.638
6407N	43	92	1.5	96.8	3.25	2.7	0.6	0.901
6008NR	44.6	63.4	1	64.82	2.49	1.9	0.6	0.200

Deep Groove Ball Bearing(With Snap Groove)

ZWZ

d 40–55 mm



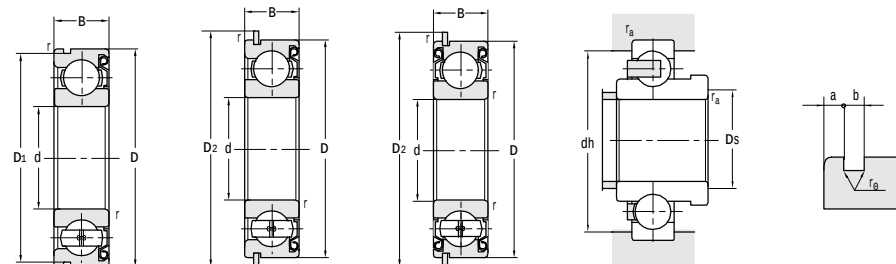
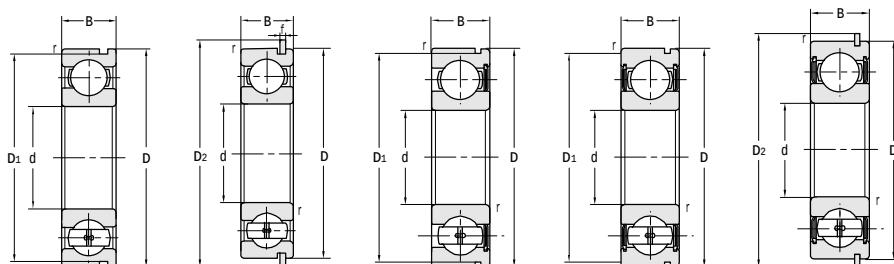
Principal dimensions				Basic load ratings		Snap ring dimensions		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	D2	f	Grease	Oil
mm				kN				r/min	
40	80	18	1.1	31.2	18.2			8500	10000
	80	18	1.1	31.2	18.2			8500	10000
	80	18	1.1	31.2	18.2	86.6	1.7	8500	10000
	90	23	1.5	41.0	24.0			7500	9000
	90	23	1.5	41.0	24.0	96.5	2.46	7500	9000
	90	23	1.5	41.0	24.0	96.5	2.46	7500	9000
	90	23	1.5	41.0	24.0			7500	9000
	90	20	1.5	41.0	24.0	96.5	2.46	7500	9000
	90	23	1.5	41.0	24.0			7500	9000
	90	23	1.5	41.0	24.0			6700	8000
	110	27	2	67.5	36.0			6700	8000
45	85	19	1.1	33.7	20.7			7500	9000
	85	19	1.1	33.7	20.7			7500	9000
	85	19	1.1	33.7	20.7	91.6	1.7	7500	9000
	85	19	1.1	33.7	20.7	91.6	1.7	7500	9000
	100	25	1.5	53.0	30.0			6700	8000
	100	25	1.5	53.0	30.0			6700	8000
	100	25	1.5	53.0	30.0			6700	8000
	100	25	1.5	48.5	29.5	106.5	2.46	6700	8000
	100	25	1.5	50.0	45.0	106.5	2.46	6700	8000
	100	25	1.5	50.0	45.0			6700	8000
	100	21	1.5	52.5	30.0	106.5	2.46	6700	8000
	120	29	2	73.0	43.0			6000	7000
									7000
									7000
50	90	20	1.1	35.6	22.3			7000	8500
	90	20	1.1	35.6	22.3			7000	8500
	90	20	1.1	35.6	22.3	96.5	2.46	7000	8500
	90	20	1.1	35.6	22.3	96.5	2.46	7000	8500
	90	20	1.1	35.6	22.3			7000	8500
	110	27	2	62.0	38.0			6300	7500
	110	27	2	62.0	38.0	116.6	2.46	6300	7500
	130	31	2.6	92.2	55.1	139.7	2.82	5300	6300
	130	31	2.1	88.0	52.0			5300	6300
									6300
55	100	21	1.5	44.3	27.8			6300	7500

Designations	Abutment and fillet dimensions				Snap ring groove dimensions			Weight
	D _b min	d _h max	r _a max	D ₁ max	a	b	r ₀ max	
	mm							
6208N	46.5	73.5	1	76.81	3.28	1.9	0.6	0.354
6208-ZN	46.5	73.5	1	76.81	3.28	1.9	0.6	0.364
6208-ZNR	46.5	73.5	1	76.81	3.28	1.9	0.6	0.382
6308N	48	82	1.5	86.8	3.25	2.7	0.6	0.640
6308NR	48	82	1.5	86.79	3.28	2.7	0.6	0.671
6308-ZNR	48	82	1.5	86.79	3.28	2.7	0.6	0.673
6308N/HAP63	48	82	1.5	86.79	3.28	2.7	0.6	0.640
6308X2NR/C3	48	82	1.5	86.79	3.28	2.7	0.6	0.600
6308-ZN	48	82	1.5	86.79	3.28	2.7	0.6	0.642
6308-2RSN	48	82	1.5	86.79	3.28	2.7	0.6	0.622
6408N	49	101	2	106.81	3.28	2.7	0.6	1.19
6209N	51.5	78.5	1	81.81	3.28	1.9	0.6	0.422
6209-ZN	51.5	78.5	1	81.81	3.28	1.9	0.6	0.428
6209-ZNR	51.5	78.5	1	81.81	3.28	1.9	0.6	0.434
6209NR	51.5	78.5	1	81.81	3.28	1.9	0.6	0.428
6309N	53	92	1.5	96.8	3.28	2.7	0.6	0.840
6309-ZN	53	92	1.5	96.8	3.28	2.7	0.6	0.837
309N/HAYAB	53	92	1.5	96.8	3.25	2.7	0.6	0.900
6309NR	53	92	1.5	96.8	3.28	2.7	0.6	0.861
309NR/HAYAB-DC	53	92	1.5	96.8	3.28	2.7	0.6	0.927
309N/HAYAB-DC	53	92	1.5	96.8	3.28	2.7	0.6	0.900
6309X2NR/C3	52	94	1.5	96.8	3.28	2.7	0.6	0.735
6409N	54	111	2	115.21	4.06	3.1	0.6	1.57
6210N	56.5	83.5	1	86.79	3.28	2.7	0.6	0.464
6210-ZN	56.5	83.5	1	86.79	3.28	2.7	0.6	0.469
6210-ZNR	56.5	83.5	1	86.79	3.28	2.7	0.6	0.605
6210NR	56.5	83.5	1	86.79	3.28	2.7	0.6	0.492
6210-ZNB-FST	56.5	83.5	1	86.79	3.28	2.7	0.6	0.469
6310N	59	101	2	106.8	3.25	2.7	0.6	1.1
6310-ZNR	59	101	2	106.81	3.28	2.7	0.6	1.23
6410NR/C9YA6	61	119	2	125.22	4.06	3.1	0.6	1.94
6410N	61	119	2	125.22	4.06	3.1	0.6	1.89
6211N	63	92	1.5	96.8	3.28	2.7	0.6	0.623

Deep Groove Ball Bearing(With Snap Groove)

ZWZ

d 55~70 mm



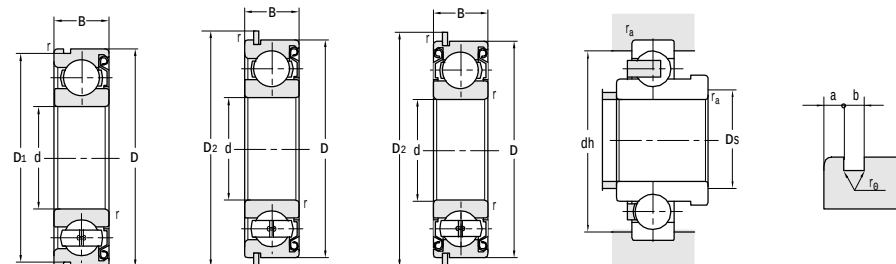
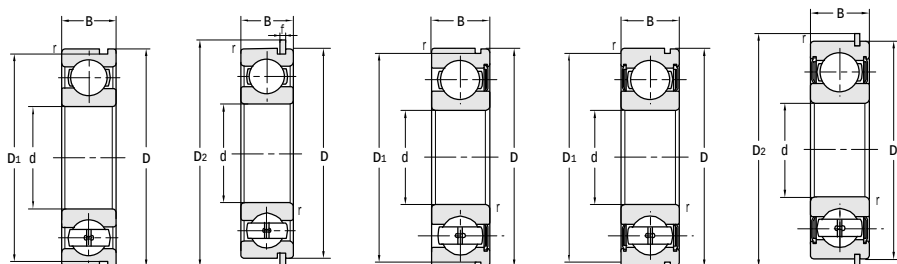
Principal dimensions				Basic load ratings		Snap ring dimensions		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	D2	f	Grease	Oil
mm				kN				r/min	
55	100	21	1.5	44.3	27.8	106.5	2.46	6300	7500
	100	25	1	44.3	27.8			6300	7500
	120	29	2	71.5	45.0			5600	6700
	120	29	2	71.5	45.0			5600	6700
	120	29	2	71.5	45.0			5600	6700
	120	29	2	71.5	45.0	129.7	2.82	5600	6700
	130	31	1.1	77.0	49.0	139.7	2.77	5300	6400
	140	33	2.1	95.0	60.0			5000	6000
60	110	22	1.5	53.0	36.0			6000	7000
	110	22	1.5	53.0	36.0	117	2.46	6000	7000
	110	22	1.5	53.0	36.0	116.6	2.46	6000	7000
	110	22	1.5	53.0	36.0			6000	7000
	110	22	1.5	53.0	36.0			6000	7000
	110	22	1.5	53.0	36.0			6000	7000
	110	22	1.5	53.0	36.0	117	2.46	6000	7000
	110	22	1.5	53.0	36.0			6000	7000
	110	22	3	53.0	36.0			6000	7000
	130	31	2.1	82.0	50.0			5000	6000
	130	31	2.1	82.0	50.0			5000	6000
	150	35	2.1	107	68.5			4800	5600
65	100	18	1.1	32.0	25.0	106.5	2.46	6300	7500
	100	18	1.1	32.0	25.0			6300	7500
	120	23	1.5	57.0	40.0			5300	6300
	120	23	1.5	57.0	40.0			5300	6300
	120	23	3	57.0	40.0			5300	6300
	140	33	2.1	95.0	59.5			4800	5600
	140	33	2.1	95.0	59.5			4800	5600
	140	33	2.1	95.0	59.5	149.7	2.77	4800	5600
	140	33	2.1	95.0	59.5	149.7	2.77	4800	5600
	160	37	2.1	118	78.5	169.7	2.82	4500	5300
70	110	20	1.1	38.0	30.0	116.6	2.46	6000	7000
	125	24	1.5	61.2	43.2			4800	5800
	150	35	2.1	107	68.0			4500	5300
	150	3	2.1	107	68.0			4500	5300

Designations	Abutment and fillet dimensions				Snap ring groove dimensions			Weight
	Dbmin	dhmax	ramax	D1max	a	b	r0max	
	mm							
6211-ZNR	63	92	1.5	96.8	3.28	2.7	0.6	0.645
62211WB-2RSZN	63	92	1	96.8	3.28	2.7	0.6	1.08
6311-2ZN	64	111	2	115.21	4.06	3.1	0.6	1.35
6311N	64	111	2	115.21	4.06	3.1	0.6	1.35
6311-2RSN	64	111	2	115.21	4.06	3.1	0.6	1.34
6311-2RSNR	64	111	2	115.21	4.06	3.1	0.6	1.41
6611NR	71	119	1.1	125.3	4.06	3.1	0.6	1.89
6411N	66	129	2	135.23	4.9	3.1	0.6	2.26
6212N	68	102	1.5	106.81	3.28	2.7	0.6	0.778
6212-ZNBR/YB2	68	102	1.5	107	3.28	2.69	0.6	0.794
6212-ZNBR/HAYAB-DC	68	102	1.5	106.81	3.28	2.69	0.6	0.794
6212-ZNB/HAYAB-DC	68	102	1.5	106.81	3.28	2.69	0.6	0.782
6212-ZN	68	102	1.5	106.81	3.28	2.7	0.6	0.766
6212-ZNB/HAYAB	68	102	1.5	106.81	3.28	2.69	0.6	0.782
6212-ZNR	68	102	1.5	107	3.28	2.69	0.6	0.778
6212N-FST	68	102	1.5	106.81	3.28	2.7	0.6	0.778
6312N	71	119	2	125.22	4.06	3.1	0.6	1.72
6312-ZN	71	119	2	125.22	4.06	3.1	0.6	1.73
6412N	71	139	2	145.24	4.9	3.1	0.6	2.7
6013NR	71.5	93.5	1	96.8	2.87	2.7	0.6	0.435
6013N	71.5	93.5	1	96.8	2.87	2.7	0.6	0.414
50213K	73	112	1.5	115.21	4.06	3.1	0.6	1.00
6213N	73	112	1.5	115.21	4.06	3.1	0.6	1.04
6213N-FST	73	112	1.5	115.21	4.06	3.1	0.6	1.04
6313N	76	129	2	135.23	4.9	3.1	0.6	2.13
6313N/YAB-FST	76	129	2	135.23	4.9	3.1	0.6	2.13
6313NR/C3YA6	76	129	2	135.23	4.9	3.1	0.6	2.17
6313NR/C3	76	129	2	135.23	4.9	3.1	0.6	2.20
6413NR/C3	76	149	2	155.22	4.9	3.1	0.6	3.26
6014NR	76.5	103.5	1	106.81	2.87	2.7	0.6	0.648
6214N	78	117	1.5	120.22	4.06	3.1	0.6	1.10
6314N	81	139	2	145.24	4.9	3.1	0.6	2.54
6314N/YA6	81	139	2	145.24	4.9	3.1	0.6	2.54

Deep Groove Ball Bearing(With Snap Groove)

ZWZ

d 70~105 mm



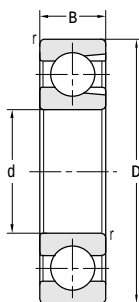
Principal dimensions				Basic load ratings		Snap ring dimensions		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	D2	f	Grease	Oil
mm				kN				r/min	
70	150	35	2.1	107	68.0	159.7	2.82	4500	5300
	150	35	2.1	107	68.0			4500	5300
	150	35	2.1	136	102			4500	5300
	150	35	2.1	136	102			4500	5300
75	115	20	1.1	40.0	32.2	169.7	2.82	5600	6700
	130	25	1.5	66.0	50.0			4800	5600
	160	37	2.1	113	77			4300	5000
	160	37	2.1	149	115			4500	5200
	160	37	2.1	149	115			4500	5200
80	140	26	2	71.5	54.5	139.7	2.82	4500	5300
	170	39	2.1	125	86.5			4000	4800
	200	48	3	160	122			3400	4000
85	130	22	1.1	47.5	40.0	149.7	2.82	5000	6000
	130	22	1.1	47.5	40.0			5000	6000
	150	28	2	84.0	62.0			4300	5000
	150	28	2	84.0	62.0			4300	5000
	180	41	3	102	96.5			3800	4500
	160	30	2	83.0	64.5			4300	5000
90	140	24	1.5	58.5	50.0	169.7	2.82	4800	5600
	140	24	1.5	61.0	51.0			4800	5600
	140	24	1.5	55.5	45.0			4800	5600
	140	24	1.5	63.5	51.0			4800	5600
	140	24	1.5	63.5	51.0			4800	5600
	140	24	1.5	58.5	50.0			4800	5600
	140	24	1.5	58.5	50.0			4800	5600
	160	30	2	97.0	72.0			3800	4500
	160	30	2	96.0	71.5			3800	4500
	190	43	3	144	108			3000	3800
	140	24	1.5	58.5	50.0			4800	5600
	140	24	1.5	58.5	50.0			4800	5600
95	200	45	3	152	118			2800	3600
100	250	58	4	214	184			2600	3400
105	150	24	1.5	62.4	52.9			4300	5000
	190	36	2.1	135	102			3200	3800

Designations	Abutment and fillet dimensions				Snap ring groove dimensions			Weight
	D _{bmin}	d _{hmax}	r _{amax}	D _{1max}	a	b	r _{0max}	
	mm							kg
6314NR/C3	81	139	2	145.24	4.9	3.1	0.6	2.62
6314N/C9	81	139	2	145.24	4.9	3.1	0.6	2.54
314MN	81	139	2	145.24	4.9	3.1	0.6	3.18
314N/YAD	81	139	2	145.24	4.9	3.1	0.6	2.92
6015N-FST	81.5	108.5	1	111.81	2.87	2.7	0.6	0.622
6215N	83	122	1.5	125.2	4.05	3.1	0.6	1.18
6315N	86	149	2	155.22	4.9	3.1	0.6	2.92
315NR/YA8-1	86	149	2.1	155.22	4.9	3.1	0.6	4.27
315NR/YA68-1	86	149	2.1	155.22	4.9	3.1	0.6	4.27
6216N	89	131	2	135.23	4.9	3.1	0.6	1.46
6316N	91	159	2	163.65	5.69	3.5	0.6	3.63
6416N	93	187	2.5	193.6	5.7	3.5	0.6	6.78
6017NR/YB2	91.5	123.5	1	125.22	4.06	3.1	0.6	0.981
6017N/YB2-FST	91.5	123.5	1	125.22	4.06	3.1	0.6	0.903
6217N	94	141	2	145.2	4.9	3.1	0.6	1.82
6217-ZN	94	141	2	145.24	4.9	3.1	0.6	1.82
6317N	98	167	2.5	173.66	5.69	3.5	0.6	4.23
6317X3N	96	145	2	155.22	4.9	3.1	0.6	2.44
6018N	98	132	1.5	135.23	3.71	3.1	0.6	1.15
6018N/HAYAB	98	132	1.5	135.23	3.71	3.1	0.6	1.12
6018N/YAB-1	98	132	1.5	135.23	3.71	3.1	0.6	1.15
6018N/YAD	98	132	1.5	135.23	3.71	3.1	0.6	1.11
6018NR/YAD	98	132	1.5	135.23	3.71	3.1	0.6	1.18
6018NR/YAB-2	98	132	1.5	135.23	3.71	3.1	0.6	1.22
6018NR/YAB-2-DC	98	132	1.5	135.23	3.71	3.1	0.6	1.22
6218N	99	151	2	155.22	4.9	3.1	0.6	2.18
6218NR/YA7	99	151	2	155.22	4.9	3.1	0.6	2.3
6318N	100	180	2.5	183.64	5.69	3.5	0.6	4.73
6319N	110	185	2.5	193.65	5.69	3.5	0.6	5.79
6420N	116	234	3	242	6.5	4.5	0.6	13.1
6020N	108	142	1.5	145.24	3.71	3.1	0.6	1.13
6221N	116	179	2	183.6	5.7	3.5	0.6	3.79

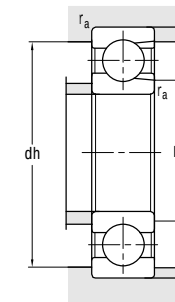
Deep Groove Ball Bearing(Full Elements)

ZWZ

d 50~440 mm



Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{or}	Grease	Oil
mm				kN		r/min	
50	110	27	2	85.5	62.0	4500	6300
60	130	31	2.1	113	83.5	3800	5300
65	140	33	2.1	130	90.0	3400	4800
70	125	24	1.5	84.5	73	4800	5800
	150	35	2.1	163	110	3200	4500
75	160	37	2.1	204	125	3000	4300
107	145	16	1.3	52.0	66.0	1500	1900
170	260	42	3.5	206	294	1200	1500
220	270	24	1.5	99.0	161	1100	1300
	300	38	2.1	201	292	1000	1300
240	300	28	2	142	212	1000	1300
320	412	38	2.5	319	530	900	1100
340	460	56	3	420	740	850	1000
440	600	74	4	730	1170	800	950

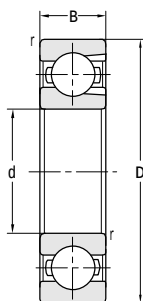


Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	r _{amax}	
	mm			kg
310V	59	101	2	1.01
312V	71	119	2	1.82
313V	76	129	2	2.15
214V 314V	78	117	1.5	1.19
	81	139	2	2.65
315V/C9	86	149	2	3.23
970921	114.6	137.4	1.3	0.821
6034V/YA7	182	248	3.5	7.11
61844V 61944V	228	262	1.5	2.62
	231	289	2	7.24
61848V	249	291	2	4.93
970864	332	400	2.5	11.8
61968V	353	447	2.5	25.6
61988V	456	584	3	55.6

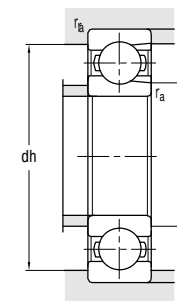
Deep Groove Ball Bearing(With Filling Slot)

ZWZ

d 30~165 mm



Principal dimensions				Basic load ratings		Limit speed ratings	
d	D	B	r _{min}	C _r	C _{0r}	Grease	Oil
mm				kN		r/min	
30	62	16	1	23.6	16.0	10000	13000
43	100	25	1.5	65.0	43.5	5200	6600
	100	25	1.5	65.0	43.5	5200	6600
45	85	19	1.1	43.0	32.0	5300	7500
	100	25	1.5	65.0	43.5	5200	6600
50	90	20	1	40.0	31.0	5300	6700
	110	27	1.5	80.0	57.0	4500	6300
55	140	33	2.1	97.5	89.0	3800	4800
65	120	23	1.5	78.0	64.0	4300	6000
	120	23	1.5	59.2	57.3	4300	6000
	140	33	2.1	110	90.0	3400	4800
70	125	24	1.5	84.5	73.0	4000	5000
	130	25	1.5	84.5	74.5	3400	4800
	180	42	3	133	136	2700	3500
	180	42	3	140	148	2700	3500
85	160	37	2.1	157	125	3000	3700
	180	41	3	183	157	3800	4500
90	190	43	3	144	108	3400	4000
107	147	16	1.3	40.0	70.0	2700	3400
165	250.5	35	2.5	187	204	1200	1500



Designations	Abutment and fillet dimensions			Weight
	D _{smin}	dh _{max}	r _{amax}	
	mm			kg
206	35	57	1	0.217
30/43NR 30/43NR-2Z/YAD	52.5	90.5	1.5	0.949
	52.5	90.5	1.5	0.994
209 309/YA8	51.5	78.5	1	0.492
	52.5	90.5	1.5	0.920
210-Z/YA6 310	56	84	1	0.503
	59	101	2	1.10
411N1/YB8	66	129	2	2.45
370213	73	112	1.5	1.01
213	73	112	1.5	1.01
313	76	129	2	2.4
214V	78	117	1.5	1.19
215	83	122	1.5	1.32
414N1-RS 414N1-Z/YB8	83	167	3	4.04
	83	167	3	5.64
315V/C9 6317V	86	149	2	3.23
	98	167	2.5	4.16
6318V	103	177	2.5	4.84
66/107V	115	140	1.3	0.821
370833	177	239	2.5	6.56