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# DEEP GROOVE BALL BEARING

These types of bearing contains of inner ring, outer ring, ball and cage. Also available in rubber seals and steel shields, snap ring grooves with snap-rings and also in different types of cage.

## These bearings are of mainly

- Single row deep groove ball bearings
- Double row deep groove ball bearings

## Characteristic of deep groove ball bearing

- Low, medium and very high speed rotation
- Require low maintenance
- Able to accommodate axial load in both direction.
- Able to accommodate radial load at high speed.
- Unidirectional and bidirectional load carrying capacity
- Good running accuracy and low noise
- Use for low and medium load application

## Series available

For Single Row  
6800, 6900, 16000, 6000, 6200, 6300, 6400, 62000, 62300, 63000, 61800, 61900,  
**6200, 6300 - Also manufacture in EMQ [ Electric Motor Quality]**

For double row  
4200, 4300

## Double row deep groove ball bearing has

- Deep interrupted raceways and high conformity between ball and raceways.
- Carry axial load in unidirectional and bidirectional, addition to radial load.
- Suitable where load carrying capacity of single row deep groove ball bearing is inadequate.
- Double row deep groove ball bearing are wider than single row deep groove ball bearing for same bore diameter and outer diameter, but have higher load carrying capacity than single row deep groove ball bearing.

## Precautions for use of Deep Groove Ball Bearings

If the bearing load is too small during operation slippage occurs between the balls and raceway. Which may result in smearing in deep Groove ball bearing. The higher the weight of ball and cage, the higher the foundry becomes, specially for large bearings. So if very Small bearing load are expected than please contact MBF for selection of appropriate bearings

## Misalignment

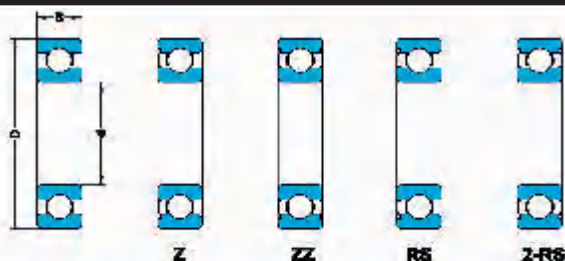
for double row deep groove ball bearing misalignment of inner ring relative to outer ring can only accommodate by force, which results ball load and cage force and result in reduce bearing life. Any misalignment in bearing ring will result increase noise during application.

## MBF offering

- All type of ball bearing
- With Z, 2Z shield and with Rubber seal RS, 2RS
- With snap ring groove and snap ring
- For radial clearance C2, CN, C3, C4, C5
- As per ISO grade P0 ABEC1 And as per ISO Grade P6 ABEC3
- Cage type riveted of steel and brass steel, machined brass cage, polyimide.
- Dimension as per ISO standard, DIN standard and ISI standard.

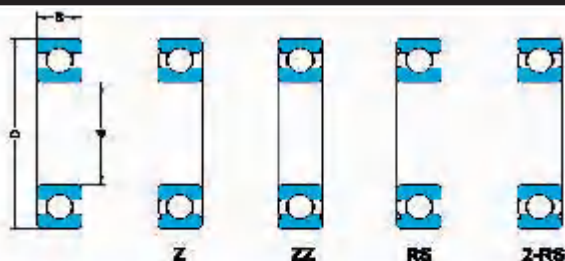
## Radial internal clearance of deep groove ball bearings

Bore Diameter d over mm	Incl.	Radial internal clearance									
		C2 Min	Max	Normal Min	Max	C3 Min	Max	C4 Min	Max	C5 Min	Max
		Micron									
	6	0	7	2	13	8	23	-	-	-	-
6	10	0	7	2	13	8	23	14	29	20	37
10	18	0	9	3	18	11	25	18	33	25	45
18	24	0	10	5	20	13	28	20	36	28	48
24	30	1	11	5	20	13	28	23	41	30	53
30	40	1	11	6	20	15	33	28	46	40	64
40	50	1	11	6	23	18	36	30	51	45	73
50	65	1	15	8	28	23	43	38	61	55	90
65	80	1	15	10	30	25	51	46	71	65	105
80	100	1	18	12	36	30	58	53	84	75	120
100	120	2	20	15	41	36	66	61	97	90	140
120	140	2	23	18	48	41	81	71	114	105	160
140	160	2	23	18	53	46	91	81	130	120	180
160	180	2	25	20	61	53	102	91	147	135	200
180	200	2	30	25	71	63	117	107	163	150	230
200	225	4	32	28	82	73	132	120	187	175	255
225	250	4	36	31	92	87	152	140	217	205	290
250	280	4	39	36	97	97	162	152	237	255	320

**Deep groove ball bearings**  
 Single row  
 d 8-20 mm


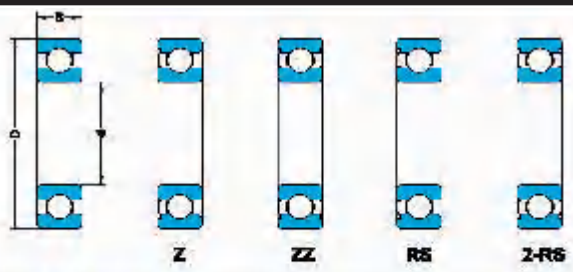
Principal Dimensions			Basic load ratings		Fatigue Load Limit $P_u$ kN	Speed ratings Lubrication		Mass kg	Designation -
d mm	D	B	dynamic C kN	Static $C_0$		Grease RPM	Oil		
<b>8</b>	16	4	1.33	0.57	0.024	40000	480000	0.0030	<b>618/8</b>
	22	7	3.25	1.37	0.057	36000	43000	0.012	<b>608</b>
<b>9</b>	17	4	1.43	0.64	0.27	38000	45000	0.0034	<b>618/9</b>
	24	7	3.71	1.66	0.071	32000	38000	0.014	<b>609</b>
	26	8	4.62	1.96	0.083	28000	34000	0.020	<b>629</b>
<b>10</b>	19	5	1.38	0.58	0.025	36000	43000	0.0055	<b>61800</b>
	22	6	1.95	0.75	0.032	34000	40000	0.010	<b>61900</b>
	26	8	4.62	1.96	0.083	30000	36000	0.019	<b>6000</b>
	28	8	4.62	1.96	0.083	28000	34000	0.022	<b>16100</b>
	30	9	5.07	2.36	0.1	24000	30000	0.032	<b>6200</b>
	35	11	8.06	3.40	0.143	20000	26000	0.053	<b>6300</b>
<b>12</b>	21	5	1.43	0.67	0.028	32000	38000	0.0063	<b>61801</b>
	24	6	2.25	0.98	0.043	30000	36000	0.011	<b>61901</b>
	28	8	5.07	2.36	0.100	26000	32000	0.022	<b>6001</b>
	30	8	5.07	2.36	0.100	26000	32000	0.023	<b>16101</b>
	32	10	6.89	3.10	0.132	22000	28000	0.037	<b>6201</b>
	37	12	9.75	4.15	0.176	19000	24000	0.060	<b>6301</b>
<b>15</b>	24	5	1.56	0.80	0.034	28000	34000	0.0074	<b>61802</b>
	28	7	4.03	2.04	0.085	24000	30000	0.016	<b>61902</b>
	32	8	5.59	2.85	0.120	22000	28000	0.025	<b>16002</b>
	32	9	5.59	2.85	0.120	22000	28000	0.030	<b>6002</b>
	35	11	7.80	3.75	0.160	19000	24000	0.045	<b>6202</b>
	42	13	11.40	5.40	0.228	17000	20000	0.082	<b>6302</b>
<b>17</b>	26	5	1.68	0.93	0.039	24000	30000	0.0082	<b>61803</b>
	30	7	4.36	2.32	0.098	22000	28000	0.018	<b>61903</b>
	35	8	6.05	3.25	0.137	19000	24000	0.032	<b>16003</b>
	35	10	6.05	3.25	0.137	19000	24000	0.039	<b>6003</b>
	40	12	9.56	4.75	0.200	17000	20000	0.065	<b>6203</b>
	47	14	13.50	6.55	0.275	16000	19000	0.12	<b>6303</b>
<b>20</b>	62	17	22.90	10.80	0.455	12000	15000	0.27	<b>6403</b>
	32	7	2.70	1.50	0.063	19000	24000	0.018	<b>61804</b>
	37	9	6.37	3.65	0.156	18000	22000	0.038	<b>61904</b>
	42	8	6.89	4.05	0.173	17000	20000	0.050	<b>16004</b>
	42	12	9.36	5.00	0.212	17000	20000	0.069	<b>6004</b>
	47	14	12.70	6.55	0.280	15000	18000	0.11	<b>6204</b>
52	15	15.90	7.80	0.335	13000	16000	0.14	<b>6304</b>	
72	19	30.70	15.0	0.640	10000	13000	0.40	<b>6404</b>	

**Deep groove ball bearings**  
Single row  
d 25-45 mm



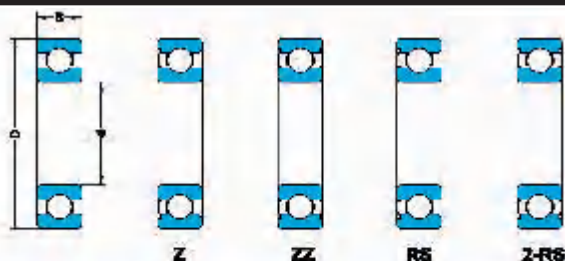
Principal Dimensions			Basic load ratings		Fatigue Load Limit	Speed ratings Lubrication		Mass	Designation
d mm	D	B	dynamic C kN	Static C <sub>0</sub>	P <sub>u</sub> kN	Grease	Oil	kg	-
						RPM			
<b>25</b>	37	7	4.36	2.60	0.125	17000	20000	0.022	<b>61805</b>
	42	9	6.63	4.00	0.176	16000	19000	0.045	<b>61905</b>
	47	8	7.61	4.75	0.212	14000	17000	0.060	<b>16005</b>
	47	12	11.20	6.55	0.275	15000	18000	0.080	<b>6005</b>
	52	15	14.00	7.80	0.335	12000	15000	0.13	<b>6205</b>
	62	17	22.50	11.60	0.49	11000	14000	0.23	<b>6305</b>
	80	21	35.80	19.30	0.815	9000	11000	0.53	<b>6405</b>
<b>30</b>	42	7	4.49	2.90	0.146	15000	18000	0.027	<b>61806</b>
	47	9	7.28	4.55	0.212	14000	17000	0.051	<b>61906</b>
	55	9	11.20	7.35	0.31	12000	15000	0.085	<b>16006</b>
	62	16	19.50	11.20	0.475	10000	13000	0.20	<b>6206</b>
	72	19	28.10	16.00	0.67	9000	11000	0.35	<b>6306</b>
	90	23	43.60	23.60	1.0	8500	10000	0.74	<b>6406</b>
<b>35</b>	47	7	4.75	3.20	0.166	13000	16000	0.030	<b>61807</b>
	55	10	9.56	6.20	0.29	11000	14000	0.080	<b>61907</b>
	55	13	13.30	8.30	0.355	12000	15000	0.12	<b>6006</b>
	62	9	12.40	8.15	0.375	11000	13000	0.11	<b>16007</b>
	62	14	15.90	10.20	0.44	10000	13000	0.16	<b>6007</b>
	72	17	25.50	15.30	0.655	9000	11000	0.29	<b>6207</b>
	80	21	33.20	19.00	0.815	8500	10000	0.46	<b>6307</b>
	100	25	55.30	31.00	1.29	7000	8500	0.95	<b>6407</b>
<b>40</b>	52	7	4.94	3.45	0.186	11000	14000	0.034	<b>61808</b>
	62	12	13.80	9.30	0.425	10000	13000	0.12	<b>61908</b>
	68	9	13.30	9.15	0.44	9500	12000	0.13	<b>16008</b>
	68	15	16.80	11.60	0.49	9500	12000	0.19	<b>6008</b>
	80	18	30.70	19.00	0.80	8500	10000	0.37	<b>6280</b>
	90	23	41.00	24.00	1.02	7500	9000	0.63	<b>6308</b>
	110	27	63.70	36.50	1.53	6700	8000	1.25	<b>6408</b>
<b>45</b>	58	7	6.05	4.3	0.22	9500	12000	0.040	<b>61809</b>
	68	12	14.0	98.0	0.46	90000	11000	0.14	<b>61909</b>
	75	10	15.6	10.8	0.52	9000	11000	0.17	<b>16009</b>
	75	16	20.8	14.6	0.64	9000	11000	0.25	<b>6009</b>
	85	19	33.2	21.6	0.91	7500	9000	0.41	<b>6209</b>
	100	25	52.7	31.5	1.34	6700	8000	0.83	<b>6309</b>
	120	29	76.1	45.0	1.90	6000	7000	1.55	<b>6409</b>

**Deep groove ball bearings**  
Single row  
d 50-70 mm

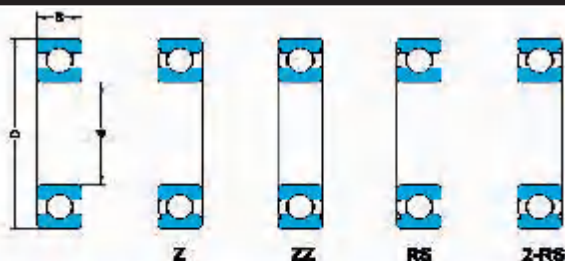


Principal Dimensions			Basic load ratings		Fatigue Load Limit	Speed ratings Lubrication		Mass	Designation
d mm	D	B	dynamic C kN	Static C <sub>0</sub>	P <sub>u</sub> kN	Grease	Oil	kg	-
						RPM			
<b>50</b>	65	7	6.24	4.75	0.25	9000	11000	0.052	<b>61810</b>
	72	12	14.6	10.4	0.50	8500	10000	0.14	<b>61910</b>
	80	10	16.3	11.4	0.56	8500	10000	0.18	<b>16010</b>
	80	16	21.6	16.0	0.71	8500	10000	0.26	<b>6010</b>
	90	20	35.1	23.2	0.98	7000	8500	0.46	<b>6210</b>
	110	27	61.8	38.0	1.60	6300	7500	1.05	<b>6310</b>
	130	31	87.1	52.0	2.20	5300	6300	1.90	<b>6410</b>
<b>55</b>	72	9	8.84	6.8	0.36	8500	10000	0.083	<b>61811</b>
	80	13	15.9	11.4	0.56	8000	9500	0.19	<b>61911</b>
	90	11	19.5	14.0	0.69	7500	9000	0.26	<b>16011</b>
	90	18	28.1	21.2	0.90	7500	9000	0.39	<b>6011</b>
	100	21	43.6	29.0	1.25	6300	7500	0.61	<b>6211</b>
	120	21	43.6	29.0	1.25	6300	7500	0.61	<b>6311</b>
	140	33	99.5	62.0	2.60	5000	6000	2.30	<b>6411</b>
<b>60</b>	78	10	8.71	6.7	0.36	7500	9000	0.11	<b>61812</b>
	85	13	16.5	12.0	0.60	7500	9000	0.20	<b>61912</b>
	95	11	19.9	15.0	0.73	6700	8000	0.28	<b>16012</b>
	95	18	29.6	23.2	0.98	6700	8000	0.42	<b>6012</b>
	110	22	52.7	36.0	1.53	6000	7000	0.78	<b>6212</b>
	130	31	81.9	52.0	2.2	5000	6000	1.70	<b>6312</b>
	150	35	10.8	69.5	2.9	4800	5600	2.75	<b>6412</b>
<b>65</b>	85	10	11.9	9.65	0.51	7000	8500	0.13	<b>61813</b>
	90	13	17.4	13.4	0.63	6700	8000	0.22	<b>61913</b>
	100	11	21.2	16.6	0.83	6300	7500	0.30	<b>16013</b>
	100	18	21.2	16.6	0.83	6300	7500	0.30	<b>6013</b>
	120	23	55.9	40.5	1.73	5300	6300	0.99	<b>6213</b>
	140	33	92.3	60.0	2.50	4800	5600	2.10	<b>6313</b>
	160	37	119.0	78.0	3.15	4500	5300	3.30	<b>6413</b>
<b>70</b>	90	10	12.1	1.0	0.54	6700	8000	0.14	<b>61814</b>
	100	16	23.8	18.3	0.90	6300	7500	0.35	<b>61914</b>
	110	13	28.1	25.0	1.06	6000	7000	0.43	<b>16014</b>
	110	20	37.7	31.0	1.32	6000	7000	0.60	<b>6014</b>
	125	24	60.5	45.0	1.90	5000	6000	1.05	<b>6214</b>
	150	35	104.0	68.0	2.75	4500	5300	2.50	<b>6314</b>
	180	42	143.0	104.0	3.90	3800	4500	4.85	<b>6414</b>

**Deep groove ball bearings**  
Single row  
d 75-100 mm

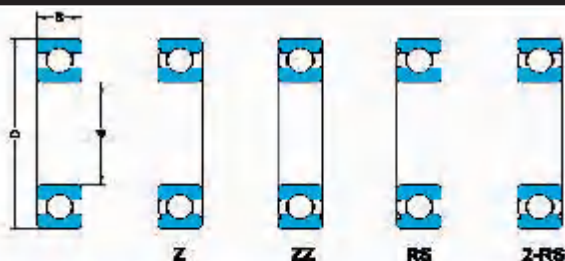


Principal Dimensions			Basic load ratings		Fatigue Load Limit	Speed ratings Lubrication		Mass	Designation
d mm	D	B	dynamic C kN	Static C <sub>0</sub>	P <sub>u</sub> kN	Grease	Oil	kg	-
						RPM			
<b>75</b>	95	10	12.5	10.8	0.58	6300	7500	0.15	<b>61815</b>
	105	16	24.2	19.3	0.96	6000	7000	0.37	<b>61915</b>
	115	13	28.6	27.0	1.14	5600	6700	0.46	<b>16015</b>
	115	20	39.7	33.5	1.43	5600	6700	0.64	<b>6015</b>
	130	25	66.3	49.0	2.04	4800	5600	1.20	<b>6215</b>
	160	37	114.0	76.5	3.00	4300	5000	3.00	<b>6315</b>
	190	45	153.0	114.0	4.15	3600	4300	6.80	<b>6415</b>
<b>80</b>	100	10	12.7	11.2	0.61	6000	7000	0.15	<b>61816</b>
	110	16	25.1	20.4	1.02	5600	6700	0.40	<b>61916</b>
	125	14	33.2	31.5	1.32	5300	6300	0.60	<b>16016</b>
	125	22	47.5	40.0	1.66	5300	6300	0.85	<b>6016</b>
	140	26	70.2	55.0	2.20	4500	5300	1.40	<b>6216</b>
	170	39	124.0	86.5	3.25	3800	4500	3.60	<b>6316</b>
	200	48	163.0	125.0	4.50	3400	4000	8.00	<b>6416</b>
<b>85</b>	110	13	19.5	16.6	0.88	5300	6300	0.27	<b>61817</b>
	120	18	31.9	30.0	1.25	5300	6300	0.55	<b>61917</b>
	130	14	33.8	33.5	1.37	5000	6000	0.63	<b>16017</b>
	130	22	49.4	43.0	1.76	5000	6000	0.89	<b>6017</b>
	150	28	83.2	64.0	2.50	4300	5000	1.80	<b>6217</b>
	180	41	133.0	96.5	3.55	3600	4300	4.25	<b>6317</b>
	210	52	174.0	137.0	4.75	3200	3800	9.50	<b>6417</b>
<b>90</b>	115	13	19.5	17.0	0.91	5300	6300	0.28	<b>61818</b>
	125	18	33.2	31.5	1.23	5000	6000	0.59	<b>61918</b>
	140	16	41.6	39.0	1.56	4800	5600	0.85	<b>16018</b>
	140	24	58.5	50.0	1.96	4800	5600	1.15	<b>6018</b>
	160	30	95.6	73.5	2.80	3800	4500	2.15	<b>6218</b>
	190	43	143.0	108.0	3.85	3400	4000	4.90	<b>6318</b>
	225	54	186.0	15.0	5.00	3000	3600	11.5	<b>6418</b>
<b>95</b>	120	13	19.9	17.6	0.93	5000	6000	0.30	<b>61819</b>
	130	18	33.8	33.5	1.43	4800	5600	0.61	<b>61919</b>
	145	16	42.3	41.5	1.63	4500	5300	0.89	<b>16019</b>
	145	24	60.5	5.4	2.08	4500	5300	1.20	<b>6019</b>
	170	32	108.0	81.5	3.00	3600	4300	2.60	<b>6219</b>
	200	45	153.0	118.0	4.15	3200	3800	5.65	<b>6319</b>
<b>100</b>	125	13	19.9	18.3	0.95	4800	5600	0.31	<b>61820</b>
	140	20	42.3	41.5	1.63	4500	5300	0.83	<b>61920</b>
	150	16	44.2	44.0	1.70	4300	5000	0.91	<b>16020</b>
	150	24	60.5	54.0	2.04	4300	5000	1.25	<b>6020</b>
	180	34	124.00	93.0	3.35	3400	4000	3.158	<b>6220</b>
	215	47	174.0	140.0	4.75	3000	3600	7.00	<b>6320</b>

**Deep groove ball bearings**  
 Single row  
 d105-150 mm


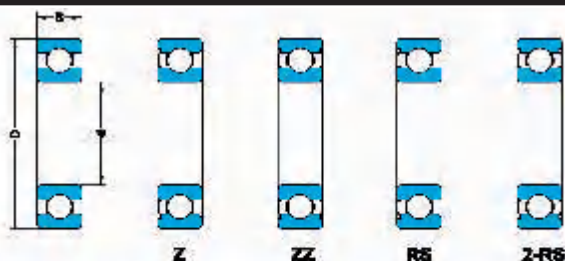
Principal Dimensions			Basic load ratings		Fatigue Load Limit $P_u$ kN	Speed ratings Lubrication		Mass kg	Designation
d mm	D	B	dynamic C kN	Static $C_0$		Grease RPM	Oil		
<b>105</b>	130	13	20.8	19.6	1.0	4500	5300	0.32	<b>61821</b>
	145	20	44.2	44.0	1.70	4300	5000	0.87	<b>61921</b>
	160	18	52.0	51.0	1.86	4000	4800	1.20	<b>16021</b>
	160	26	72.8	65.5	2.4	4000	4800	1.60	<b>6021</b>
	190	36	133.0	104.0	3.6	3200	3800	3.70	<b>6221</b>
	225	49	182.0	153.0	5.1	2800	3400	8.25	<b>6321</b>
<b>110</b>	140	16	28.1	26.0	1.25	4300	5000	0.60	<b>61822</b>
	150	20	43.6	45.0	1.66	4000	4800	0.90	<b>61922</b>
	170	19	57.2	57.0	2.04	3800	4500	1.45	<b>16022</b>
	170	28	81.9	73.5	2.40	3800	4500	1.95	<b>6022</b>
	200	38	143.0	118.0	4.0	3000	3600	4.35	<b>6222</b>
	240	50	203.0	180.0	5.70	2600	3200	9.55	<b>6322</b>
<b>120</b>	150	16	29.1	28.0	1.29	3800	4500	0.65	<b>61824</b>
	165	22	55.3	57.0	2.04	3600	4300	1.20	<b>61924</b>
	180	19	60.5	64.0	2.20	3400	40000	1.60	<b>16024</b>
	180	28	85.2	80.0	2.75	3400	4000	2.05	<b>6024</b>
	215	40	146.0	118.0	3.90	2800	3400	5.15	<b>6224</b>
	260	55	208.0	186.0	5.70	2400	3000	14.5	<b>6324</b>
<b>130</b>	165	18	37.7	43.0	1.66	3600	4300	0.93	<b>61826</b>
	180	24	65.0	67.0	2.28	3400	4000	1.60	<b>61926</b>
	200	22	79.3	81.5	2.70	3200	3800	2.35	<b>16026</b>
	200	33	106.0	100.0	3.35	3200	3800	3.15	<b>6026</b>
	230	40	156.0	132.0	4.15	2600	3200	5.80	<b>6226</b>
	280	58	229.0	216.0	6.30	2200	2800	18.0	<b>6326</b>
<b>140</b>	175	18	39.0	46.5	1.66	3400	4000	0.99	<b>61828</b>
	190	24	66.3	72.0	2.28	3200	3800	1.70	<b>61928</b>
	210	22	80.6	86.5	2.70	3000	3600	2.50	<b>16028</b>
	210	33	111.0	108.0	3.35	3000	3600	3.35	<b>6028</b>
	250	42	165.000	150.0	4.15	2400	3000	7.45	<b>6228</b>
	300	62	251.000	245.00	7.10	2000	2600	22.0	<b>6328</b>
<b>150</b>	190	20	48.800	61.0	1.96	3000	3600	1.40	<b>61830</b>
	210	28	88.400	93.0	2.90	2800	3400	3.05	<b>61930</b>
	225	24	92.300	98.0	3.05	2600	3200	3.15	<b>16030</b>
	225	35	125.000	125.0	3.90	2600	3200	4.80	<b>6030</b>
	270	45	174.000	166.0	4.90	2000	2600	9.40	<b>6230</b>
	320	65	276.000	285.0	7.80	1900	2400	26.0	<b>6330</b>

**Deep groove ball bearings**  
Single row  
d160-220 mm

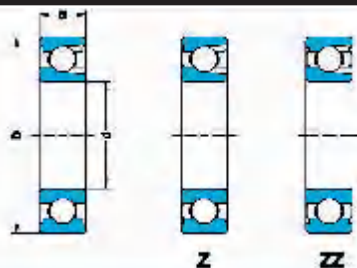


Principal Dimensions			Basic load ratings		Fatigue Load Limit	Speed ratings Lubrication		Mass	Designation
d mm	D	B	dynamic C kN	Static C <sub>0</sub>	P <sub>u</sub> kN	Grease	Oil	kg	-
						RPM			
<b>160</b>	200	20	49.400	64.0	2.00	2800	3400	1.45	<b>61832</b>
	220	28	92.300	98.0	3.05	2600	3200	3.25	<b>61932</b>
	240	25	99.500	108.0	3.25	2400	3000	3.70	<b>16032</b>
	240	38	143.000	143.0	4.30	2400	3000	5.90	<b>6032</b>
	290	48	186.000	186.0	5.30	1900	2400	14.5	<b>6232</b>
	340	68	276.000	28.5	7.65	1800	2200	29.0	<b>6332</b>
<b>170</b>	215	22	61.800	78.0	2.40	2600	3200	1.90	<b>61834</b>
	230	28	93.600	106.0	3.15	2400	3000	3.40	<b>61934</b>
	260	28	119.000	129.0	3.75	2200	2800	5.00	<b>16034</b>
	260	42	168.000	173.0	5.00	2200	2800	7.90	<b>6034</b>
	310	52	212.000	224.0	6.10	1900	2400	17.5	<b>6234</b>
	360	72	312.000	340.0	8.80	1700	2000	34.5	<b>6334</b>
<b>180</b>	225	22	62.400	81.5	2.45	2400	3000	2.00	<b>61836</b>
	250	33	119.000	134.0	3.90	2200	2800	5.05	<b>61936</b>
	280	31	138.000	146.0	4.15	2000	2600	6.60	<b>16036</b>
	280	46	190.000	200.0	5.60	2000	2600	10.5	<b>6036</b>
	320	52	229.000	24.0	6.40	1800	2200	18.5	<b>6236</b>
	380	75	351.000	405.0	10.40	1700	2000	42.5	<b>6336</b>
<b>190</b>	240	24	76.1	98.0	2.80	2200	2800	2.60	<b>61838</b>
	260	33	117.0	134.0	3.80	2200	2800	5.25	<b>61938</b>
	290	31	148.0	16.0	4.55	2000	2600	7.90	<b>160.8</b>
	290	46	195.0	216.0	5.85	2000	2600	11.0	<b>6038</b>
	340	55	255.0	280.0	7.35	1700	2000	23.0	<b>6238</b>
	400	78	371.0	430.0	10.80	1600	1900	49.0	<b>6338</b>
<b>200</b>	250	24	76.1	102.0	2.90	2200	2800	2.70	<b>61840</b>
	280	38	148.0	166.0	4.55	2000	2600	7.40	<b>61940</b>
	310	34	168.0	190.0	5.10	1900	2400	8.85	<b>16040</b>
	310	51	216.0	245.0	6.40	1900	2400	14.0	<b>6040</b>
	360	58	270.0	310.0	7.80	1700	2000	28.0	<b>6240</b>
	420	80	377.0	465.0	11.20	1500	1800	55.5	<b>6340</b>
<b>220</b>	270	24	78.0	110.0	3.00	1900	2400	3.00	<b>61844</b>
	300	38	151.0	180.0	4.75	1900	2400	8.00	<b>61944</b>
	340	37	174.0	204.0	5.20	1800	2200	11.5	<b>16044</b>
	340	56	2470.0	290.0	7.35	1800	2200	18.5	<b>6044</b>
	400	65	296.0	365.0	8.80	1500	1800	37.0	<b>6244</b>
	460	88	410.0	520.0	12.00	1300	1600	72.5	<b>6344</b>



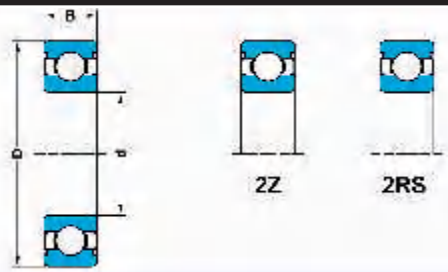
**Deep groove ball bearings**  
 Single row  
 d240-280 mm


Principal Dimensions			Basic load ratings		Fatigue Load Limit $P_u$ kN	Speed ratings Lubrication		Mass kg	Designation -
d mm	D	B	dynamic C kN	Static $C_0$		Grease RPM	Oil		
<b>240</b>	300	28	108.0	150.0	3.80	1800	2200	4.50	<b>61848</b>
	320	38	159.0	200.0	5.10	1800	2200	8.60	<b>61048</b>
	360	37	178.0	220.0	5.30	1700	2000	14.5	<b>16048</b>
	360	56	255.0	315.0	7.80	1700	2000	19.5	<b>6048</b>
	440	72	358.0	475.0	10.80	1300	1600	51.0	<b>6248</b>
<b>260</b>	320	28	111.0	163.0	4.00	1700	2000	4.80	<b>61852</b>
	360	46	212.0	270.0	6.55	1600	1900	14.5	<b>61952</b>
	400	44	238.0	310.0	7.20	1500	1800	21.5	<b>16052</b>
	400	65	291.0	375.0	8.80	1500	1800	29.5	<b>6052</b>
	480	80	390.0	530.0	11.80	1100	1400	65.5	<b>6252</b>
<b>280</b>	350	33	138.000	200.0	4.75	1600	1900	7.40	<b>61856</b>
	380	46	216.0	285.0	6.7	1500	1800	15.5	<b>61956</b>
	420	44	242.0	335.0	7.5	1400	1700	23.0	<b>16056</b>
	420	65	302.0	405.0	9.3	1400	1700	31.0	<b>6056</b>
	500	80	423.0	600.0	12.9	1100	1400	71.0	<b>6256</b>

**Deep groove ball bearings with filling Slots**  
 Single row  
 d25-100mm


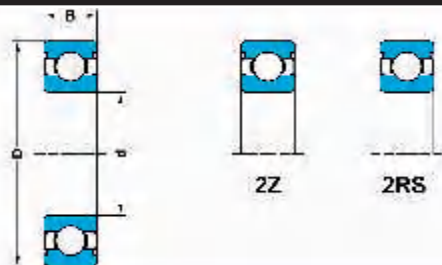
Principal dimensions			Basic load ratings		Fatigue Load Limit	Speed ratings		Mass	Designation
d	D	B	Dynamic C	Static C <sub>0</sub>	P <sub>u</sub>	Reference speed	Limiting speed		Bearing Open
mm			kN		kN	RPM		Kg.	
<b>25</b>	62	17	22.9	15.6	0.67	20 000	13 000	0.24	<b>305</b>
<b>30</b>	62	16	22.9	17.3	0.735	20 000	12 000	0.21	<b>206</b>
	72	19	29.2	20.8	0.88	18 000	11 000	0.37	<b>306</b>
<b>35</b>	72	17	29.7	22.8	0.965	17 000	11 000	0.31	<b>207</b>
	80	21	39.1	28.5	1.2	16 000	10 000	0.48	<b>307</b>
<b>40</b>	80	18	33.6	26.5	1.12	15 000	9 500	0.39	<b>208</b>
	90	23	46.8	36	1.53	14 000	9 000	0.64	<b>308</b>
<b>45</b>	85	19	39.6	32.5	1.37	14 000	9 000	0.44	<b>209</b>
	100	25	59.4	46.5	1.96	13 000	8 000	0.88	<b>309</b>
<b>50</b>	90	20	39.1	34.5	1.46	13 000	8 000	0.5	<b>210</b>
	110	27	64.4	52	202	11 000	7 000	1.15	<b>310</b>
<b>55</b>	100	21	48.4	44	1.86	12 000	7 500	0.66	<b>211</b>
	120	29	79.2	67	2.85	10 000	6 700	1.5	<b>311</b>
<b>60</b>	110	22	56.1	50	2.12	11 000	6 700	0.85	<b>212</b>
	130	31	91.3	78	3.35	9 500	6 000	1.85	<b>312</b>
<b>65</b>	120	23	60.5	58.5	2.5	10 000	6 000	1.05	<b>213</b>
	140	33	102	90	3.75	9 000	5 600	2.3	<b>313</b>
<b>70</b>	125	24	66	65.5	2.75	9 500	6 000	1.15	<b>214</b>
	150	35	114	102	4.15	8 000	5 000	2.75	<b>314</b>
<b>75</b>	130	25	72.1	72	3	9 000	5 600	1.25	<b>215</b>
	160	37	125	116	4.55	7 500	4 800	3.25	<b>315</b>
<b>80</b>	140	26	88	85	3.45	8 500	5 300	1.55	<b>216</b>
	170	39	138	129	4.9	7 000	4 500	3.95	<b>316</b>
<b>85</b>	150	28	96.8	100	3.9	7 500	4 800	1.95	<b>217</b>
	180	41	147	146	5.3	6 700	4 300	4.6	<b>317</b>
<b>90</b>	160	30	112	114	4.3	7 000	4 500	2.35	<b>218</b>
	190	43	157	160	5.7	6 300	4 000	5.40	<b>318</b>
<b>95</b>	170	32	121	122	4.5	6 700	4 300	2.70	<b>219</b>
<b>100</b>	180	34	134	140	5	6 300	4 000	3.45	<b>220</b>

Sealed Single Row Deep groove ball bearings  
d6-12mm

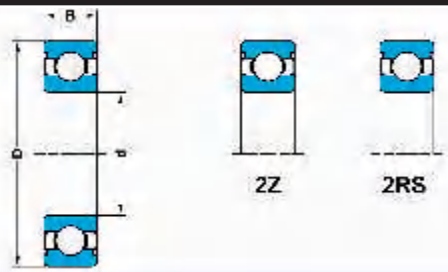


Principal Dimensions			Basic load ratings		Fatigue Load Limit	Speed ratings Lubrication		Mass	Designation
d mm	D	B	dynamic C kN	Static C <sub>0</sub>	P <sub>0</sub> kN	Grease	Oil	kg	-
						RPM			
<b>6</b>	19	6	2.34	0.95	0.04	80 000	40 000	0.0084	<b>626-2Z</b>
	19	6	2.34	0.95	0.04	80 000	40 000	0.0084	<b>626-2RS</b>
<b>7</b>	19	6	2.34	0.95	0.04	85 000	43 000	0.0075	<b>607-2Z</b>
	19	6	2.34	0.95	0.04	85 000	43 000	0.0075	<b>607-2RS</b>
	22	7	3.45	1.37	0.057	70 000	36 000	0.013	<b>627-2Z</b>
	22	7	3.45	1.37	0.057	70 000	36 000	1.012	<b>627-2RS</b>
	22	7	3.45	1.37	0.057	70 000	38 000	0.012	<b>608-2Z</b>
	22	7	3.45	1.37	0.057	70 000	38 000	0.012	<b>608-2RS</b>
	24	8	3.9	1.66	0.071	63 000	32 000	0.017	<b>628-2Z</b>
	24	8	3.9	1.66	0.071	63 000	19 000	0.017	<b>628-2RS</b>
<b>9</b>	24	7	3.9	1.66	0.071	70 000	34 000	0.014	<b>609-2Z</b>
	24	7	3.9	1.66	0.071	70 000	34 000	0.014	<b>609-2RS</b>
	26	8	4.75	1.96	0.083	60 000	32 000	0.020	<b>629-2Z</b>
	26	8	4.75	1.96	0.083	60 000	32 000	0.020	<b>629-2RS</b>
<b>10</b>	19	5	1.38	0.59	0.025	80 000	38 000	0.0055	<b>61800-2Z</b>
	19	5	1.38	0.59	0.025	80 000	22 000	0.0055	<b>61800-2RS</b>
	22	6	2.08	0.82	0.036	75 000	36 000	0.010	<b>61900-2Z</b>
	22	6	2.08	0.82	0.036	75 000	20 000	0.010	<b>619-2RS</b>
	26	8	4.75	1.96	0.083	67 000	34 000	0.019	<b>6000-2Z</b>
	26	8	4.75	1.96	0.083	67 000	34 000	0.025	<b>6000-2RS</b>
	26	12	4.62	1.96	0.083	67 000	19 000	0.022	<b>63000-2RS</b>
	30	9	5.4	2.36	0.1	56 000	28 000	0.032	<b>6200-2Z</b>
	30	9	5.4	2.36	0.1	56 000	28 000	0.032	<b>6200-2RS</b>
	30	14	5.07	2.36	0.1	56 000	17 000	0.04	<b>62200-2RS</b>
	35	11	8.52	3.4	0.143	50 000	26 000	0.053	<b>6300-2Z</b>
	35	11	8.52	3.4	0.143	50 000	26 000	0.053	<b>6300-2RS</b>
	35	17	8.06	3.4	0.143	50 000	15 000	0.06	<b>62300-2RS</b>
	<b>12</b>	21	5	1.43	0.67	0.028	70 000	36 000	0.0063
21		5	1.43	0.67	0.028	70 000	20 000	0.0063	<b>61801-2RS</b>
24		6	2.25	0.98	0.043	67 000	32 000	0.011	<b>61901-2Z</b>
24		6	2.25	0.98	0.043	67 000	19 000	0.011	<b>61901-2RS</b>
28		8	5.4	2.36	0.1	60 000	30 000	0.022	<b>6001-2Z</b>
28		8	5.4	2.36	0.1	60 000	30 000	0.022	<b>6001-2RS</b>
28		12	5.07	2.36	0.1	60 000	17 000	0.029	<b>63001-2RS</b>
32		10	7.28	3.1	0.132	50 000	26 000	0.037	<b>6201-2Z</b>
32		10	7.28	3.1	0.132	50 000	26 000	0.037	<b>6201-2RS</b>
32		14	6.89	3.1	0.132	50 000	15 000	0.045	<b>62001-2RS</b>
37		12	10.1	4.15	0.176	45 000	22 000	0.060	<b>6301-2Z</b>
37		12	10.1	4.15	0.176	45 000	22 000	0.060	<b>6301-2RS</b>
37		17	9.75	4.15	0.173	45 000	14 000	0.070	<b>62301-2RS</b>

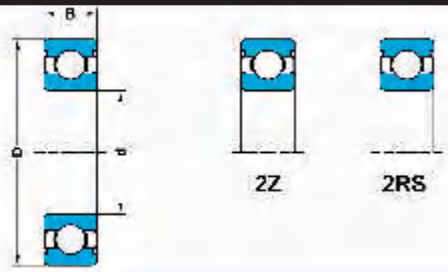
Sealed Single Row Deep groove ball bearings  
d15-20mm



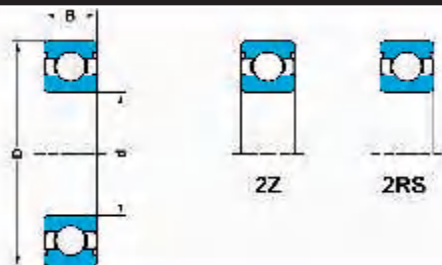
Principal Dimensions			Basic load ratings		Fatigue Load Limit	Speed ratings Lubrication		Mass	Designation
d mm	D	B	dynamic C kN	Static C <sub>0</sub>	P <sub>0</sub> kN	Grease	Oil	kg	-
						RPM			
<b>15</b>	24	5	1.56	0.8	0.034	60 000	30 000	0.0074	<b>61802-2Z</b>
	24	5	1.56	0.6	0.034	60 000	17 000	0.0074	<b>61802-2RS</b>
	28	7	4.36	2.24	0.095	56 000	28 000	0.016	<b>61902-2Z</b>
	28	7	4.36	2.24	0.095	56 000	19 000	0.016	<b>61902-2RS</b>
	32	8	5.85	2.85	0.12	50 000	26 000	0.025	<b>16002-2Z</b>
	32	9	5.85	2.85	0.12	50 000	26 000	0.030	<b>6002-2Z</b>
	32	9	5.85	2.85	0.12	50 000	26 000	0.030	<b>6002-2RS</b>
	32	13	5.59	2.85	0.12	50 000	14 000	0.039	<b>63002-2RS</b>
	35	11	8.06	3.75	0.16	43 000	22 000	0.045	<b>6202-2Z</b>
	35	11	8.06	3.75	0.16	43 000	22 000	0.045	<b>6202-2RS</b>
	35	14	7.8	3.75	0.16	43 000	13 000	0.054	<b>62202-2RS</b>
	42	13	11.9	5.4	0.228	38 000	19 000	0.082	<b>6302-2Z</b>
	42	13	11.9	5.4	0.228	38 000	19 000	0.082	<b>6302-2RS</b>
	42	17	11.4	5.4	0.228	38 000	12 000	0.11	<b>62302-2RS</b>
<b>17</b>	26	5	1.68	0.93	0.039	56 000	28 000	0.0082	<b>61803-2Z</b>
	26	5	1.68	0.93	0.039	56 000	16 000	0.0082	<b>61803-2RS</b>
	30	7	4.62	2.55	0.108	50 000	26 000	0.018	<b>61903-2Z</b>
	30	7	4.62	2.55	0.108	50 000	14 000	0.018	<b>61903-2RS</b>
	35	8	6.37	3.25	0.137	45 000	22 000	0.032	<b>16003-2Z</b>
	35	10	6.37	3.25	0.137	45 000	22 000	0.039	<b>6003-2ZZ</b>
	35	10	6.37	3.25	0.137	45 000	22 000	0.039	<b>6003-2RS</b>
	35	14	6.05	3.25	0.137	45 000	13 000	0.052	<b>63003-2RS</b>
	40	12	9.95	4.75	0.02	38 000	19 000	0.065	<b>6203-2Z</b>
	40	12	9.95	4.75	0.02	38 000	19 000	0.065	<b>6203-2RS</b>
	40	16	9.56	4.75	0.02	38 000	12 000	0.083	<b>62203-2RS</b>
	47	14	14.3	6.55	0.275	34 000	17 000	0.12	<b>6303-2Z</b>
	47	14	14.3	6.55	0.275	34 000	17 000	0.12	<b>6303-2RS</b>
	47	19	13.5	6.55	0.275	34 000	11 000	0.15	<b>62303-2RS</b>
<b>20</b>	32	7	4.03	2.32	1.104	45 000	13 000	0.018	<b>61804-2RS</b>
	37	9	6.37	3.65	0.156	43 000	12 000	0.038	<b>61904-2RS</b>
	42	12	9.95	5	0.212	38 000	19 000	0.069	<b>6004-2Z</b>
	42	12	9.95	5	0.212	38 000	19 000	0.069	<b>6004-2RS</b>
	42	12	9.95	5	0.212	38 000	11 000	0.086	<b>63004-2RS</b>
	47	14	13.5	6.55	0.28	32 000	17 000	0.11	<b>6204-2Z</b>
	47	14	13.5	6.55	0.28	32 000	17 000	0.11	<b>6204-2RS</b>
	47	18	12.7	6.55	0.28	32 000	10 000	0.13	<b>62204-2RS</b>
	52	15	16.8	7.8	0.335	30 000	15 000	0.14	<b>6304-2Z</b>
	52	15	16.8	7.8	0.335	30 000	15 000	0.14	<b>6304-2RS</b>
	52	15	16.8	7.8	0.335	30 000	9 000	0.20	<b>62304-2RS</b>



Principal Dimensions			Basic load ratings		Fatigue Load Limit	Speed ratings Lubrication		Mass	Designation
d	D	B	dynamic C	Static C <sub>0</sub>	P <sub>0</sub>	Grease	Oil	kg	-
mm			kN		kN	RPM	RPM		
25	37	7	4.36	2.6	0.125	38 000	11 000	0.022	61805-2RS
	42	9	7.02	4.3	0.193	36 000	10 000	0.045	61905-2RS
	47	12	11.9	6.55	0.275	32 000	16 000	0.08	6005-2Z
	47	12	11.9	6.55	0.275	32 000	16 000	0.08	6005-2RS
	47	12	11.9	6.55	0.275	32 000	9 500	0.10	63005-2RS
	52	15	14.8	7.8	0.335	28 000	14 000	0.13	6205-2Z
	52	15	14.8	7.8	0.335	28 000	14 000	0.13	6205-2RS
	52	15	14.8	7.8	0.335	28 000	8 500	0.15	62205-2RS
	62	17	23.4	11.6	0.49	24 000	13 000	0.23	6305-2Z
	62	17	23.4	11.6	0.49	24 000	13 000	0.23	6305-2RS
62	24	22.5	11.6	0.49	24 000	7 500	0.32	62305-2RS	
30	42	7	4.49	2.9	0.146	32 000	9 500	0.027	61806-2Z
	47	9	7.28	4.55	0.212	30 000	8 500	0.051	60905-2RS
	55	13	13.8	8.3	0.355	28 000	14 000	0.12	6006-2Z
	55	13	13.8	8.3	0.355	28 000	8 000	0.12	6006-2RS
	55	19	13.3	8.3	0.355	28 000	8 000	0.16	63006-2RS
	62	16	20.3	11.2	0.475	24 000	12 000	0.20	6206-2Z
	62	16	20.3	11.2	0.475	24 000	7 500	0.20	6206-2RS
	62	20	19.5	11.2	0.475	24 000	7 500	0.24	62206-2RS
	72	19	29.6	16	0.67	20 000	11 000	0.35	6306-2Z
	72	19	29.6	16	0.67	20 000	6 300	0.35	6306-2RS
72	27	28.1	16	0.67	20 000	6 300	0.48	63206-2RS	
35	47	7	4.75	3.2	0.166	28 000	8 000	0.03	61807-2RS
	55	10	4.75	608	0.29	26 000	7 500	0.08	61907-2RS
	62	14	16.8	10.2	0.44	24 000	12 000	0.16	6007-2Z
	62	14	16.8	10.2	0.44	24 000	7 000	0.16	6007-2RS
	62	20	15.9	10.2	0.44	24 000	7 000	0.21	63007-2RS
	72	17	27	15.3	0.655	20 000	10 000	0.29	6207-2Z
	72	17	27	15.3	0.655	20 000	6 300	0.29	6207-2RS
	72	23	25.5	15.3	0.655	20 000	6 300	0.37	62207-2RS
	80	21	35.1	19	0.815	19 000	9 500	0.46	6307-2Z
	80	21	35.1	19	0.815	19 000	6 000	0.46	6307-2RS
80	31	33.2	19	0.815	19 000	6 000	0.66	62307-2RS	
40	52	7	4.94	3.45	0.186	26 000	7 500	0.034	61808-2RS
	62	12	13.8	10	0.425	24 000	6 700	0.12	61908-2RS
	68	15	17.8	11.6	0.49	22 000	11 000	0.19	6008-2Z
	68	15	17.8	11.6	0.49	22 000	6 300	0.19	6008-2RS
	68	21	16.8	11.6	0.49	22 000	6 300	0.26	63008-2RS
	80	18	32.5	19	0.8	18 000	9 000	0.37	6208-2Z
	80	18	32.5	19	0.8	18 000	5 600	0.37	6208-2RS
	80	23	30.7	19	0.8	18 000	5 600	0.44	62208-2RS
	90	23	42.3	24	1.02	17 000	8 500	0.63	6308-2Z
	90	23	42.3	24	1.02	17 000	5 000	0.63	6308-2RS
90	33	41	24	1.02	17 000	5 000	0.89	62308-2RS	

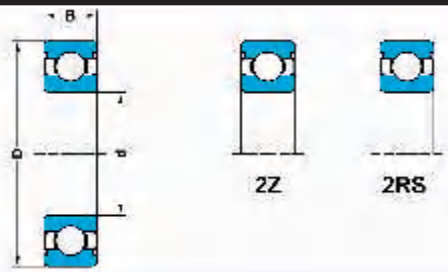


Principal Dimensions			Basic load ratings		Fatigue Load Limit	Speed ratings Lubrication		Mass	Designation
d mm	D	B	dynamic C kN	Static C <sub>0</sub>	P <sub>u</sub> kN	Grease	Oil	kg	-
						RPM	RPM		
45	58	7	6.63	6.1	0.26	22 000	6 700	0.04	61809-2RS
	68	12	14	10.8	0.465	20 000	6 000	0.14	61909-2RS
	75	16	22.1	14.6	0.64	20 000	10 000	0.25	6009-2Z
	75	16	22.1	14.6	0.64	20 000	5 600	0.25	6009-2RS
	75	26	20.8	14.6	0.64	20 000	5 600	0.34	63009-2RS
	85	19	35.1	21.6	0.915	17 000	8 500	0.41	6209-2Z
	85	19	35.1	21.6	0.915	17 000	5 000	0.41	6209-2RS
	85	23	33.2	21.6	0.915	17 000	5 000	0.48	62209-2RS
	100	25	55.3	31.5	1.34	15 000	7 500	0.83	6309-2Z
	100	25	55.3	31.5	1.34	15 000	4 500	0.83	6309-2RS
100	36	52.7	31.5	1.34	15 000	4 500	1.15	62309-2RS	
50	65	7	6.76	6.8	0.285	20 000	6 000	0.052	61810-2RS
	72	12	14.6	11.8	0.5	19 000	5 600	0.14	61910-2RS
	80	16	22.9	16	0.71	18 000	9 000	0.26	6010-2Z
	80	16	22.9	16	0.71	18 000	5 000	0.26	6010-2RS
	80	23	21.6	16	0.71	18 000	5 000	0.37	63010-2RS
	90	20	37.1	23.2	0.98	15 000	8 000	0.46	6210-2Z
	90	20	37.1	23.2	0.98	15 000	4 800	0.46	6210-2RS
	90	23	35.1	23.2	0.98	15 000	4 800	0.52	62210-2RS
	110	27	65	38	1.6	13 000	6 700	1.05	6310-2Z
	110	27	65	38	1.6	13 000	4 300	1.05	6310-2RS
110	40	61.8	38	1.6	13 000	4 300	1.55	62310-2RS	
55	72	9	9.04	8.8	0.375	19 000	5 300	0.083	61811-2RS
	80	13	16.5	14	0.6	17 000	5 000	0.19	61911-2RS
	90	18	26.6	21.2	0.9	16 000	8 000	0.39	6011-2Z
	90	18	29.6	21.2	0.9	16 000	4 500	0.39	6011-2RS
	100	21	46.2	29	1.25	14 000	7 000	0.61	6211-2Z
	100	21	46.2	29	1.25	14 000	4 300	0.61	6211-2RS
	100	25	43.6	29	1.25	14 000	4 300	0.70	62211-2RS
	120	29	74.1	45	1.9	12 000	6 300	1.35	6311-2Z
	120	29	74.1	45	1.9	12 000	3 800	1.35	6311-2RS
	120	43	71.5	45	1.9	12 000	3 800	1.95	62312-2RS
60	78	10	11.9	11.4	0.49	17 000	4 800	0.11	61812-2RS
	85	13	16.5	14.3	0.6	16 000	4 500	0.20	61912-2RS
	95	18	30.7	23.2	0.98	15 000	7 500	0.42	6012-2Z
	95	18	30.7	23.2	0.98	15 000	4 300	0.42	6012-2RS
	110	22	55.3	36	1.53	13 000	6 300	0.78	6212-2Z
	110	22	55.3	36	1.53	13 000	4 000	0.78	6212-2RS
	110	28	52.7	36	1.53	13 000	4 000	0.97	62212-2RS
	130	31	85.2	52	2.2	11 000	5 600	1.70	6312-2Z
	130	31	85.2	52	2.2	11 000	4 300	1.70	6312-2RS
	130	46	81.9	52	2.2	11 000	4 300	2.50	62312-2RS



Principal Dimensions			Basic load ratings		Fatigue Load Limit	Speed ratings Lubrication		Mass	Designation
d mm	D	B	dynamic	Static	P <sub>0</sub> kN	Grease	Oil	kg	-
			C kN	C <sub>0</sub>		RPM	RPM		
<b>65</b>	85	10	12.4	12.7	0.54	16 000	4 500	0.13	<b>61813-2RS</b>
	90	13	17.4	16	0.68	15 000	4 300	0.22	<b>61913-2RS</b>
	100	18	31.9	25	1.06	14 000	7 000	0.44	<b>6013-2Z</b>
	100	18	31.9	25	1.06	14 000	4 000	0.44	<b>6013-2RS</b>
	120	23	58.5	40.5	1.73	12 000	6 000	0.99	<b>6213-2Z</b>
	120	23	58.5	40.5	1.73	12 000	3 600	0.99	<b>6213-2RS</b>
	120	31	55.9	40.5	1.73	12 000	3 600	1.25	<b>62213-2RS</b>
	140	33	97.5	60	2.5	10 000	5 300	2.10	<b>6313-2Z</b>
	140	33	97.5	60	2.5	10 000	3 200	2.10	<b>6313-2RS</b>
	140	48	92.3	60	2.5	10 000	3 200	3.00	<b>62313-2RS</b>
<b>70</b>	90	10	12.4	132	0.56	15 000	4 300	0.14	<b>61814-2RS</b>
	100	16	23.8	21.2	0.9	14 000	4 000	0.35	<b>61914-2RS</b>
	110	20	39.7	31	1.32	13 000	6 300	0.60	<b>6014-2Z</b>
	110	20	39.7	31	1.32	13 000	3 600	0.60	<b>6014-2RS</b>
	125	24	63.7	45	1.9	11 000	5 600	1.10	<b>6214-2Z</b>
	125	24	63.7	45	1.9	11 000	3 400	1.10	<b>6214-2RS</b>
	125	31	60.5	45	1.9	11 000	3 400	1.30	<b>62214-2RS</b>
	150	35	111	68	2.75	9 500	5 000	2.50	<b>6314-2Z</b>
	150	35	111	68	2.75	9 500	3 000	2.50	<b>6314-2RS</b>
	150	51	104	68	2.75	9 500	3 000	3.55	<b>62314-2RS</b>
<b>75</b>	95	10	12.7	14.3	0.61	14 000	4 000	0.15	<b>61815-2RS</b>
	105	16	24.2	19.3	0.965	13 000	3 600	0.37	<b>61914-2RS</b>
	115	20	41.6	33.5	1.43	12 000	6 000	0.64	<b>6015-2Z</b>
	115	20	41.6	33.5	1.43	12 000	3 400	0.64	<b>6015-2RS</b>
	130	25	68.9	49	2.04	10 000	5 300	1.20	<b>6215-2Z</b>
	130	25	68.9	49	2.04	10 000	3 200	1.20	<b>6215-2RS</b>
	160	37	119	76.9	3	9 000	4 500	3.00	<b>6315-2Z</b>
	160	37	119	76.5	3	9 000	2 800	3.00	<b>6315-2RS</b>
<b>80</b>	100	10	13	15	0.64	13 000	3 600	6.15	<b>61816-2RS</b>
	110	16	25.1	20.4	1.02	12 000	3 400	0.40	<b>61916-2RS</b>
	125	22	49.4	40	1.66	11 000	5 600	0.85	<b>6016-2Z</b>
	125	22	49.4	40	1.66	11 000	3 200	0.85	<b>6016-2RS</b>
	140	26	72.8	55	2.2	9 500	4 800	1.40	<b>6216-2Z</b>
	140	26	42.8	55	2.2	9 500	3 000	1.40	<b>6216-2RS</b>
	170	39	130	86.5	3.25	8 500	4 300	3.60	<b>6316-2Z</b>
	170	39	130	86.5	3.25	8 500	2 600	3.60	<b>6316-2RS</b>
<b>85</b>	110	13	19.5	20.8	0.88	12 000	3 400	0.27	<b>61817-2RS</b>
	130	22	52	43	1.76	11 000	5 300	0.89	<b>6017-2Z</b>
	130	22	2	43	1.76	11 000	3 000	0.89	<b>9017-2RS</b>
	150	28	87.1	64	2.5	9 000	4 500	1.80	<b>6217-2Z</b>
	180	41	140	96.5	3.55	8 000	4 000	4.25	<b>6317-2Z</b>
	180	41	140	96.5	3.55	8 000	2 400	4.25	<b>6317-2RS</b>

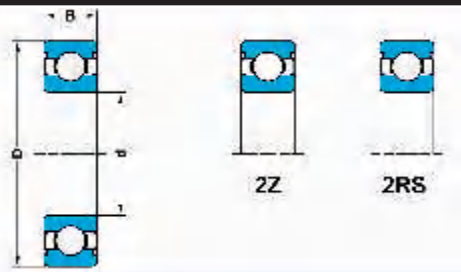
Sealed Single Row Deep groove ball bearings  
d90-120mm



Principal Dimensions			Basic load ratings		Fatigue Load Limit	Speed ratings Lubrication		Mass	Designation
d mm	D	B	dynamic	Static	P <sub>0</sub> kN	Grease	Oil	kg	-
			C kN	C <sub>0</sub>		RPM	RPM		
<b>90</b>	115	13	19.5	22	0.915	11 000	3 200	0.28	<b>61818-2RS</b>
	140	24	60.5	50	1.96	10 000	5 000	1.15	<b>6018-2Z</b>
	140	24	60.5	50	1.96	10 000	2 800	1.15	<b>6018-2RS</b>
	160	30	101	73.5	2.8	8 500	4 300	2.15	<b>6218-2Z</b>
	160	30	101	73.5	2.8	8 500	2 600	2.15	<b>6218-2RS</b>
	190	43	151	108	3.8	7 500	3 800	4.90	<b>6318-2Z</b>
	190	43	151	108	3.8	7 500	2 400	4.90	<b>6318-2RS</b>
<b>95</b>	120	13	19.9	22.8	0.93	11 000	3 000	0.30	<b>61819-2RS</b>
	130	18	33.8	33.5	1.43	11 000	3 000	0.61	<b>61919-2RS</b>
	145	24	63.7	54	2.08	9 500	4 800	1.20	<b>6019-2Z</b>
	145	24	63.7	54	2.08	9 500	2 800	1.20	<b>6019-2RS</b>
	170	32	114	81.5	3	8 000	4 000	2.60	<b>6219-2Z</b>
	170	32	114	81.5	3	8 000	2 400	2.60	<b>6219-2RS</b>
	200	45	159	118	4.15	7 000	3 600	5.65	<b>6319-2Z</b>
	200	45	159	118	4.15	7 000	2 200	5.65	<b>6319-2RS</b>
<b>100</b>	125	13	19.9	24	0.95	10 000	3 000	0.31	<b>61820-2RS</b>
	150	24	63.7	54	2.04	9 500	4 500	1.25	<b>6020-2Z</b>
	150	24	63.7	54	2.04	9 500	2 600	1.25	<b>6020-2RS</b>
	180	34	127	93	3.35	7 500	3 800	3.15	<b>6220-2Z</b>
	180	34	127	93	3.35	7 500	2 400	3.15	<b>6220-2RS</b>
	215	47	174	140	4.75	6 700	3 400	7.00	<b>6320-2Z</b>
<b>105</b>	130	13	20.8	19.6	1	10 000	2 800	0.32	<b>61821-2RS</b>
	160	26	76.1	65.5	2.4	8 500	4 300	1.60	<b>6021-2Z</b>
	160	26	76.1	65.5	2.4	8 500	2 400	1.60	<b>6021-2RS</b>
	190	36	140	104	3.65	7 000	3 600	3.70	<b>6221-2Z</b>
	190	36	140	104	3.65	7 000	2 200	3.70	<b>6221-2RS</b>
	225	49	182	153	5.1	6 300	3 200	8.25	<b>6321-2Z</b>
	<b>110</b>	140	16	28.1	26	1.25	9 500	2 600	0.60
170		28	85.2	73.5	2.4	8 000	4 000	1.95	<b>6022-2Z</b>
170		28	85.2	73.5	2.4	8 000	2 400	1.95	<b>6022-2RS</b>
200		38	151	118	4	6 700	3 400	4.35	<b>6222-2Z</b>
<b>120</b>	150	16	29.1	28	1.29	8 500	4 300	0.65	<b>61824-2RZ</b>
	150	16	29.1	28	1.29	8 500	2 400	0.65	<b>61824-2RS</b>
	180	28	88.4	80	2.75	7 500	3 800	2.05	<b>6024-2Z</b>
	180	28	88.4	80	2.75	7 500	2 200	2.05	<b>6024-2RS</b>
	215	40	146	118	3.9	6 300	3 200	5.15	<b>6224-2Z</b>
<b>130</b>	165	18	37.7	43	1.6	8 000	2 200	0.93	<b>61826-2RS</b>
	200	33	112	100	3.35	7 000	3 400	3.15	<b>6026-2Z</b>
	200	33	112	100	3.35	7 000	2 000	3.15	<b>6026-2RS</b>
	230	40	156	132	4.15	5 600	3 000	5.80	<b>6226-2Z</b>



Sealed Single Row Deep Groove ball bearings  
d140-160mm



Principal Dimensions			Basic load ratings		Fatigue Load Limit	Speed ratings Lubrication		Mass	Designation
d mm	D	B	dynamic	Static	P <sub>0</sub> kN	Grease	Oil	kg	-
			C kN	C <sub>0</sub>		RPM			
<b>140</b>	175	18	37.7	43	1.66	7 500	2 000	0.99	<b>61828-2RS</b>
	210	33	111	108	3045	6 700	3 200	3.35	<b>6028-2Z</b>
	210	33	111	108	3045	6 700	1 800	3.35	<b>6028-2RS</b>
<b>150</b>	225	35	125	125	3.9	6 000	3 000	4.80	<b>6030-2Z</b>
	225	35	125	125	3.9	6 000	1 700	4.80	<b>6030-2RS</b>
<b>160</b>	240	38	143	143	4.3	5 600	2 800	5.90	<b>6032-2Z</b>
	240	38	143	143	4.3	5 600	1 600	5.90	<b>6032-2RS</b>