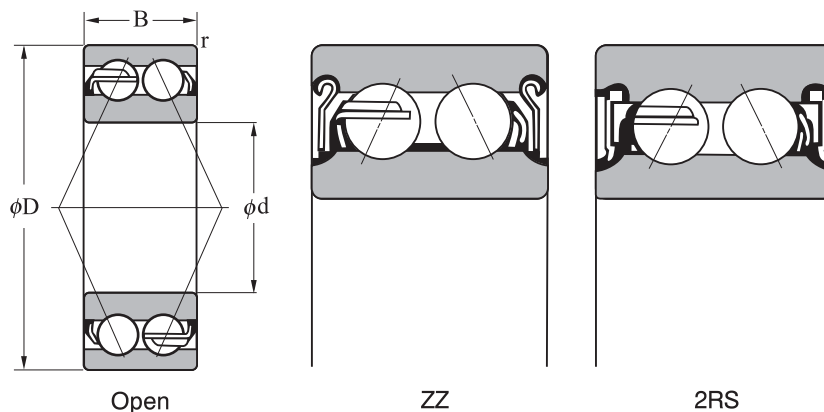


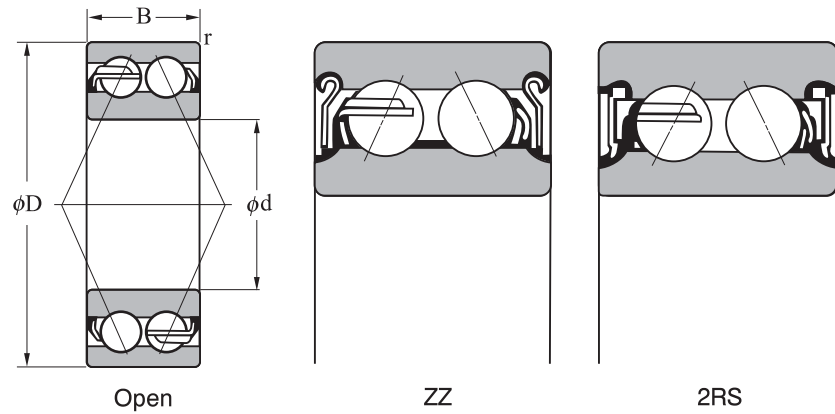
# DOUBLE ROW ANGULAR CONTACT BALL BEARINGS



## 3200 Series

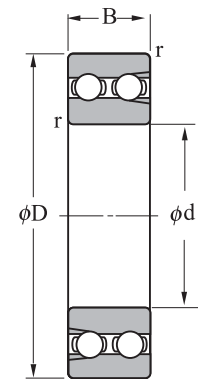
Bearing Number	Nominal Dimension mm (in)				Load Rating (kN)		Limiting Speed (RPM)		Weight Kg
					Dynamic C	Static Co	Grease Lube	Oil Lube	
	d	D	B	r					
<b>3200</b>	10 0.3937	30 1.1811	14.3 0.5629	0.6	7.35	5.35	15000	20000	0.052
<b>3201</b>	12 0.4724	32 1.2598	15.9 0.6259	0.6	9.70	7.15	14000	18000	0.063
<b>3202</b>	15 0.5905	35 1.3779	15.9 0.6259	0.6	9.70	7.45	12000	16000	0.072
<b>3203</b>	17 0.6692	40 1.5748	17.5 0.6889	0.6	13.80	10.80	11000	14000	0.100
<b>3204</b>	20 0.7874	47 1.8503	20.6 0.8110	1.0	17.20	15.00	9000	12000	0.170
<b>3205</b>	25 0.9842	52 2.0472	20.6 0.8110	1.0	18.90	18.20	7800	10000	0.190
<b>3206</b>	30 1.1812	62 2.4409	23.8 0.9370	1.0	27.30	27.00	6500	8700	0.320
<b>3207</b>	35 1.3779	72 2.8346	27.0 1.0629	1.1	36.80	37.50	5600	7500	0.480
<b>3208</b>	40 1.5748	80 3.1496	30.2 1.1889	1.1	42.00	43.90	5000	6700	0.650
<b>3209</b>	45 1.7416	85 3.3464	30.2 1.1889	1.1	45.40	51.40	4600	6100	0.710
<b>3210</b>	50 1.9686	90 3.5433	30.2 1.1889	1.1	45.10	52.10	4300	5700	0.760
<b>3211</b>	55 2.1653	100 3.9370	33.3 1.3110	1.5	50.90	60.20	3900	5100	1.050
<b>3212</b>	60 2.3622	110 4.3307	36.5 1.4370	1.5	64.00	76.80	3500	4700	1.400
<b>3213</b>	65 2.559	120 4.7244	38.1 1.5	1.5	76.40	97.40	3200	4300	1.750
<b>3214</b>	70 2.7559	125 4.9512	39.7 1.5629	1.5	77.90	96.40	3100	4100	1.920
<b>3215</b>	75 2.9527	130 5.1181	41.3 1.6259	1.5	92.40	120.00	2900	3900	2.100
<b>3216</b>	80 3.1496	140 5.5118	44.4 1.7480	2.0	97.50	121.00	2700	3600	2.640
<b>3217</b>	85 3.3464	150 5.9055	49.2 1.937	2.0	114.00	143.00	2500	3400	3.390
<b>3218</b>	90 3.5433	160 6.2992	52.4 2.0629	2.0	132.00	167.00	2400	3100	4.140

# DOUBLE ROW ANGULAR CONTACT BALL BEARINGS



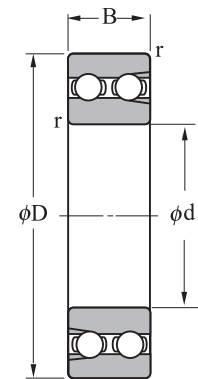
## 3300 Series

Bearing Number	Nominal Dimension mm (in)				Load Rating (kN)		Limiting Speed (RPM)		Weight Kg
					Dynamic C	Static Co	Grease Lube	Oil Lube	
	d	D	B	r					
<b>3302</b>	15 0.5905	42 1.6535	19.0 0.7480	1.0	15.20	11.90	10000	14000	0.132
<b>3303</b>	17 0.6692	47 1.8503	22.2 0.8740	1.0	21.70	17.10	9400	13000	0.192
<b>3304</b>	20 0.7874	52 2.0472	22.2 0.8740	1.1	20.80	18.40	8200	11000	0.230
<b>3305</b>	25 0.9842	62 2.4409	25.4 1	1.1	28.90	26.50	6800	9100	0.369
<b>3306</b>	30 1.1812	72 2.8346	30.2 1.1889	1.1	38.10	36.10	5800	7800	0.585
<b>3307</b>	35 1.3779	80 3.1496	34.9 1.3740	1.5	48.60	46.80	5200	7000	0.816
<b>3308</b>	40 1.5748	90 3.5433	36.5 1.4370	1.5	54.10	53.80	4600	6100	1.070
<b>3309</b>	45 1.7416	100 3.937	39.7 1.5629	1.5	66.10	67.30	4100	5500	1.420
<b>3310</b>	50 1.9686	110 4.3307	44.4 1.7480	2.0	86.10	88.60	3800	5000	1.950
<b>3311</b>	55 2.1653	120 4.7244	49.2 1.937	2.0	101.00	106.00	3400	4500	2.530
<b>3312</b>	60 2.3622	130 5.1181	54.0 2.1259	2.1	125.00	132.00	3100	4200	3.240
<b>3313</b>	65 2.559	140 5.5118	58.7 2.3110	2.1	142.00	153.00	2900	3900	4.080
<b>3314</b>	70 2.7559	150 5.9055	63.5 2.5	2.1	151.00	160.00	2700	3600	5.040
<b>3315</b>	75 2.9527	160 6.2992	68.3 2.6889	2.1	169.00	189.00	2500	3300	6.160
<b>3316</b>	80 3.1496	170 6.6929	68.3 2.6889	2.1	184.00	213.00	2400	3100	6.930
<b>3317</b>	85 3.3464	180 7.0866	73.0 2.8740	3.0	188.00	219.00	2200	3000	8.300
<b>3318</b>	90 3.5433	190 7.4803	73.0 2.874	3.0	205.00	242.00	2100	2800	9.230



**4200 Series**

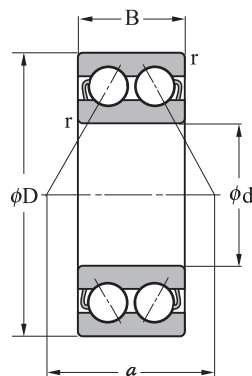
Bearing Number	Nominal Dimension mm (in)				Load Rating (kN)		Limiting Speed (RPM)		Weight Kg
					Dynamic C	Static Co	Grease Lube	Oil Lube	
	d	D	B	r					
<b>4200</b>	10 0.3937	30 1.1811	14 0.5511	0.6	7.7	5.9	15000	20000	0.057
<b>4201</b>	12 0.4724	32 1.2598	14 0.5511	0.6	7.75	6.15	14000	18000	0.062
<b>4202</b>	15 0.5905	35 1.3779	14 0.5511	0.6	9.75	9.0	12000	16000	0.071
<b>4203</b>	17 0.6692	40 1.5748	16 0.6299	0.6	11.7	10.4	11000	14000	0.106
<b>4204</b>	20 0.7874	47 1.8503	18 0.7086	1.0	16.4	16.0	9000	12000	0.165
<b>4205</b>	25 0.9842	52 2.0472	18 0.7086	1.0	16.3	16.9	7500	9900	0.189
<b>4206</b>	30 1.1812	62 2.4409	20 0.7874	1.0	22	24.7	6400	8500	0.298
<b>4207</b>	35 1.3779	72 2.8346	23 0.9055	1.1	26.4	30.7	5600	7400	0.460
<b>4208</b>	40 1.5748	80 3.1496	23 0.9055	1.1	33.7	42.4	4700	6300	0.558
<b>4209</b>	45 1.7416	85 3.3464	23 0.9055	1.1	31.9	43.9	4600	6100	0.605
<b>4210</b>	50 1.9686	90 3.5433	23 0.9055	1.1	31.4	44.6	4200	5600	0.651
<b>4211</b>	55 2.1653	100 3.9370	25 0.9842	1.5	37.2	54.1	3800	5000	0.882
<b>4212</b>	60 2.3622	110 4.3307	28 1.1023	1.5	47.9	67.6	3500	4700	1.20
<b>4213</b>	65 2.559	120 4.7244	31 1.2204	1.5	54.7	78.5	3200	4300	1.59
<b>4214</b>	70 2.7559	125 4.9512	31 1.2204	1.5	62.1	89.8	3100	4100	1.68
<b>4215</b>	75 2.9527	130 5.1181	31 1.2204	1.5	61.6	90.7	2900	3900	1.77



**4300 Series**

Bearing Number	Nominal Dimension mm (in)				Load Rating (kN)		Limiting Speed (RPM)		Weight Kg
					Dynamic C	Static Co	Grease Lube	Oil Lube	
	d	D	B	r					
<b>4302</b>	15 0.5905	42 1.6535	17 0.6692	1.0	13.1	11.7	11000	14000	0.123
<b>4303</b>	17 0.6692	47 1.8503	19 0.7480	1.0	16.5	15.0	9400	13000	0.171
<b>4304</b>	20 0.7874	52 2.0472	21 0.8267	1.1	19.5	17.0	8300	11000	0.227
<b>4305</b>	25 0.9842	62 2.4409	24 0.9448	1.1	26.3	25.7	6700	9000	0.365
<b>4306</b>	30 1.1812	72 2.8346	27 1.0629	1.1	35.5	35.9	5700	7600	0.542
<b>4307</b>	35 1.3779	80 3.1496	31 1.2204	1.5	40.6	41.8	5200	7000	0.752
<b>4308</b>	40 1.5748	90 3.5433	33 1.2992	1.5	46.0	48.8	4600	6100	1.01
<b>4309</b>	45 1.7416	100 3.937	36 1.4173	1.5	57.6	62.4	4100	5500	1.35
<b>4310</b>	50 1.9686	110 4.3307	40 1.5748	2.0	70.4	77.7	3700	5000	1.80
<b>4311</b>	55 2.1653	120 4.7244	43 1.6929	2.0	84.2	94.4	3400	4600	2.29
<b>4312</b>	60 2.3622	130 5.1181	46 1.8110	2.1	99.2	113.0	3100	4200	2.87
<b>4313</b>	65 2.559	140 5.5118	48 1.8897	2.1	107.0	124.0	2900	3900	3.46
<b>4314</b>	70 2.7559	150 5.9055	51 2.0078	2.1	115.0	136.0	2700	3600	4.21
<b>4315</b>	75 2.9527	160 6.2992	55 2.1653	2.1	132.0	158.0	2500	3400	5.15

# DOUBLE ROW ANGULAR CONTACT BALL BEARINGS



Principal dimensions mm (in)				Weight kg (lb)	Bearing Number	Basic Load Rating kN (lbf)		Limiting Speed (rpm)	
d	D	B	r <sub>min</sub>			Dynamic C <sub>r</sub>	Static Cor	Grease	Oil
<b>10</b> 0.3937	<b>30</b> 1.1811	<b>14.3</b> 0.5629	<b>0.6</b> 0.0236	<b>0.049</b> 0.108	<b>5200</b>	<b>6.95</b> 1560	<b>3.8</b> 860	14000	19000
<b>12</b> 0.4724	<b>32</b> 1.2598	<b>15.9</b> 0.6259	<b>0.6</b> 0.0236	<b>0.057</b> 0.126		<b>9.15</b> 2060	<b>5.05</b> 1140		
<b>15</b> 0.5905	<b>35</b> 1.3779	<b>15.9</b> 0.6259	<b>0.6</b> 0.0236	<b>0.064</b> 0.141	<b>5202</b>	<b>10</b> 2250	<b>6.05</b> 1360	11000	15000
	<b>42</b> 1.6535	<b>19</b> 0.7480	<b>1</b> 0.0393	<b>0.132</b> 0.291		<b>5302</b>	<b>17.2</b> 3870		
<b>17</b> 0.6692	<b>40</b> 1.5748	<b>17.5</b> 0.6889	<b>0.6</b> 0.0236	<b>0.096</b> 0.212	<b>5203</b>	<b>12.8</b> 2880	<b>7.9</b> 1780	9900	13000
	<b>47</b> 1.8503	<b>22.2</b> 0.8740	<b>1</b> 0.0393	<b>0.181</b> 0.399		<b>5303</b>	<b>20.4</b> 4590		
<b>20</b> 0.7874	<b>47</b> 1.8503	<b>20.6</b> 0.8110	<b>1</b> 0.0393	<b>0.153</b> 0.337	<b>5204</b>	<b>19</b> 4280	<b>12.1</b> 2730	8800	12000
	<b>52</b> 2.0472	<b>22.2</b> 0.8740	<b>1.1</b> 0.0433	<b>0.217</b> 0.478		<b>5304</b>	<b>20.6</b> 4640		
	<b>25</b> 0.9842	<b>52</b> 2.0472	<b>20.6</b> 0.8110	<b>1</b> 0.0393	<b>0.175</b> 0.386	<b>5205</b>	<b>20.6</b> 4640	<b>14.3</b> 3220	7300
<b>62</b> 2.4409		<b>25.4</b> 1.0000	<b>1.1</b> 0.0433	<b>0.362</b> 0.798	<b>5305</b>		<b>30.5</b> 6860	<b>20.5</b> 4610	
<b>30</b> 1.1811		<b>62</b> 2.4409	<b>23.8</b> 0.9370	<b>1</b> 0.0393	<b>0.286</b> 0.631	<b>5206</b>	<b>28.6</b> 6440	<b>20.4</b> 4590	6300
	<b>72</b> 2.8346	<b>30.2</b> 1.1889	<b>1.1</b> 0.0433	<b>0.553</b> 1.219	<b>5306</b>		<b>39.50</b> 8890	<b>27.5</b> 6190	
<b>35</b> 1.3779	<b>72</b> 2.8346	<b>27</b> 1.0629	<b>1.1</b> 0.0433	<b>0.436</b> 0.961	<b>5207</b>	<b>38</b> 8550	<b>27.8</b> 6260	5500	7400
	<b>80</b> 3.1496	<b>34.9</b> 1.3740	<b>1.5</b> 0.0590	<b>0.766</b> 1.689		<b>5307</b>	<b>49.5</b> 11140		
<b>40</b> 1.5748	<b>80</b> 3.1496	<b>30.2</b> 1.1889	<b>1.1</b> 0.0433	<b>0.59</b> 1.301	<b>5208</b>	<b>42.5</b> 9560	<b>32.5</b> 7310	4900	6600
	<b>90</b> 3.5433	<b>36.5</b> 1.4370	<b>1.5</b> 0.0590	<b>1.01</b> 2.227		<b>5308</b>	<b>60.5</b> 13610		
<b>45</b> 1.7716	<b>85</b> 3.3464	<b>30.2</b> 1.1889	<b>1.1</b> 0.0433	<b>0.64</b> 1.411	<b>5209</b>	<b>48</b> 10800	<b>37</b> 8330	4400	5900
	<b>100</b> 3.9370	<b>39.7</b> 1.5629	<b>1.5</b> 0.0590	<b>1.34</b> 2.955		<b>5309</b>	<b>72.5</b> 16310		
<b>50</b> 1.9685	<b>90</b> 3.5433	<b>30.2</b> 1.1889	<b>1.1</b> 0.0433	<b>0.689</b> 1.519	<b>5210</b>	<b>51</b> 11480	<b>42</b> 9450	4000	5300
	<b>110</b> 4.3307	<b>44.4</b> 1.7480	<b>2</b> 0.0787	<b>1.81</b> 3.991		<b>5310</b>	<b>85.5</b> 19240		
<b>55</b> 2.1653	<b>100</b> 3.9370	<b>33.3</b> 1.3110	<b>1.5</b> 0.0590	<b>0.986</b> 2.174	<b>5211</b>	<b>63</b> 14180	<b>53</b> 11930	3600	4900
	<b>120</b> 3.9370	<b>49.2</b> 1.9370	<b>2</b> 0.0787	<b>2.32</b> 5.116		<b>5311</b>	<b>106</b> 23850		
<b>60</b> 2.3622	<b>110</b> 4.3307	<b>36.5</b> 1.4370	<b>1.5</b> 0.0590	<b>1.27</b> 2.800	<b>5212</b>	<b>71.5</b> 16090	<b>58.5</b> 13160	3400	4500
	<b>130</b> 5.1181	<b>54</b> 2.1259	<b>2.1</b> 0.0826	<b>3.05</b> 6.725		<b>5312</b>	<b>122</b> 27450		
<b>65</b> 2.5590	<b>120</b> 3.9370	<b>38.1</b> 1.5000	<b>1.5</b> 0.0590	<b>1.57</b> 3.462	<b>5213</b>	<b>83.5</b> 18790	<b>72.5</b> 16310	3100	4200
	<b>140</b> 5.5118	<b>58.7</b> 2.3110	<b>2.1</b> 0.0826	<b>3.96</b> 8.732		<b>5313</b>	<b>138</b> 31050		
<b>70</b> 2.7559	<b>125</b> 4.9212	<b>39.7</b> 1.5629	<b>1.5</b> 0.0590	<b>1.8</b> 3.969	<b>5214</b>	<b>90.5</b> 20360	<b>79.5</b> 17890	2900	3900
	<b>150</b> 5.9055	<b>63.5</b> 2.5000	<b>2.1</b> 0.0826	<b>4.74</b> 10.452		<b>5314</b>	<b>155</b> 34880		
<b>75</b> 2.9527	<b>130</b> 5.1181	<b>41.3</b> 1.6259	<b>1.5</b> 0.0590	<b>1.9</b> 4.190	<b>5215</b>	<b>90</b> 20250	<b>80.5</b> 18110	2700	3600
	<b>160</b> 6.2992	<b>68.3</b> 2.6889	<b>2.1</b> 0.0826	<b>5.65</b> 12.458		<b>5315</b>	<b>168</b> 37800		
<b>80</b> 3.1496	<b>140</b> 5.5118	<b>44.4</b> 1.7480	<b>2</b> 0.0787	<b>2.39</b> 5.270	<b>5216</b>	<b>106</b> 23850	<b>95.5</b> 21490	2500	3400
	<b>150</b> 3.3464	<b>49.2</b> 5.9055	<b>2</b> 0.0787	<b>3.06</b> 6.747		<b>5217</b>	<b>112</b> 25200		
<b>90</b> 3.5433	<b>160</b> 6.2992	<b>52.4</b> 2.0629	<b>2</b> 0.0787	<b>3.73</b> 8.225	<b>5218</b>	<b>140</b> 31500	<b>129</b> 29030	2200	3000
	<b>170</b> 3.7401	<b>55.6</b> 6.6929	<b>2.1</b> 0.0826	<b>4.86</b> 10.716		<b>5219</b>	<b>159</b> 35780		
<b>100</b> 3.9370	<b>180</b> 7.0866	<b>60.3</b> 2.3740	<b>2.1</b> 0.0826	<b>5.94</b> 13.098	<b>5220</b>	<b>178</b> 40050	<b>167</b> 37580	2000	2700