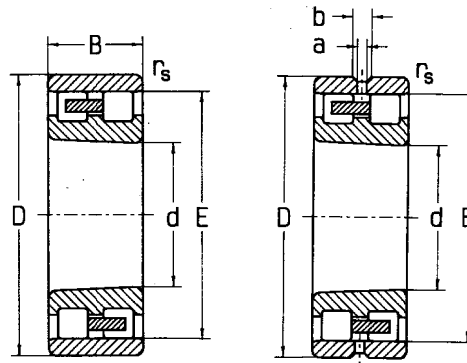


# Double Row Tapered Bore Cylindrical Roller Bearings

Sizes 30 mm – 140 mm

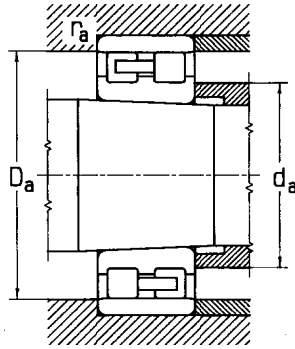


W33

Dimensions								Basic Load Rating		Limiting Speed for Lubricating by		Bearing Designation
d	D	B	r <sub>s</sub> min	E	a	b	s <sup>1)</sup>	Dynamic C <sub>r</sub>	Static C <sub>0r</sub>	Grease	Oil	
mm								kN lbf		min <sup>-1</sup>		
<b>30</b>	55	19	1	48.5	2	3.7	1	<b>28.7</b> 6,430	32.5 7,360	16,000	18,000	<b>NN3006K</b>
<b>35</b>	62	20	1	55	2	3.7	1	<b>36.9</b> 8,250	43.8 9,810	14,000	16,000	<b>NN3007K</b>
<b>40</b>	68	21	1	61	2	3.7	1	<b>38.3</b> 8,580	44.7 10,000	12,600	14,000	<b>NN3008K</b>
<b>45</b>	75	23	1	67.5	2	3.7	1	<b>44.7</b> 10,000	53.1 11,900	11,000	12,600	<b>NN3009K</b>
<b>50</b>	80	23	1	72.5	2	3.7	1.2	<b>48.2</b> 10,800	59.6 13,300	10,600	12,000	<b>NN3010K</b>
<b>55</b>	90	26	1.1	81	2	3.7	1.2	<b>64.3</b> 14,400	81 18,100	9,400	11,000	<b>NN3011K</b>
<b>60</b>	95	26	1.1	86.1	2	3.7	1.2	<b>68.1</b> 15,300	89.1 20,000	8,900	10,000	<b>NN3012K</b>
<b>65</b>	100	26	1.1	91	2	3.7	1.2	<b>70.8</b> 15,800	98.1 22,000	8,400	9,400	<b>NN3013K</b>
<b>70</b>	110	30	1.1	100	3	5.5	1.2	<b>90.9</b> 20,300	128 28,700	7,500	8,400	<b>NN3014K</b>
<b>75</b>	115	30	1.1	105	3	5.5	1.2	<b>90.9</b> 20,300	128 28,700	7,100	7,900	<b>NN3015K</b>
<b>80</b>	125	34	1.1	113	3	5.5	1.4	<b>114</b> 25,600	162 36,200	6,700	7,500	<b>NN3016K</b>
<b>85</b>	130	34	1.1	118	3	5.5	1.4	<b>119</b> 26,600	178 39,800	6,300	7,100	<b>NN3017K</b>
<b>90</b>	140	37	1.5	127	3	5.5	1.4	<b>131</b> 29,300	192 43,000	6,000	6,700	<b>NN3018K</b>
<b>95</b>	145	37	1.5	132	3	5.5	1.4	<b>139</b> 31,000	207 46,400	5,600	6,300	<b>NN3019K</b>
<b>100</b>	150	37	1.5	137	3	5.5	1.5	<b>144</b> 32,200	224 50,100	5,300	6,000	<b>NN3020K</b>
<b>105</b>	160	41	2	146	3	5.5	1.5	<b>188</b> 42,200	282 63,100	5,000	5,600	<b>NN3021K</b>
<b>110</b>	170	45	2	155	3	5.5	1.5	<b>220</b> 49,200	329 73,600	4,700	5,300	<b>NN3022K</b>
<b>120</b>	180	46	2	165	3	5.5	1.5	<b>228</b> 51,100	355 79,400	4,500	5,000	<b>NN3024K</b>
<b>130</b>	200	52	2	182	4.5	8.3	1.5	<b>282</b> 63,100	447 100,000	4,000	4,500	<b>NN3026K</b>
<b>140</b>	210	53	2	192	4.5	8.3	1.5	<b>299</b> 66,800	482 108,000	3,800	4,200	<b>NN3028K</b>

Bearing designations printed in bold face type are currently in our manufacturing schedule. Those shown in normal face type are made to order.

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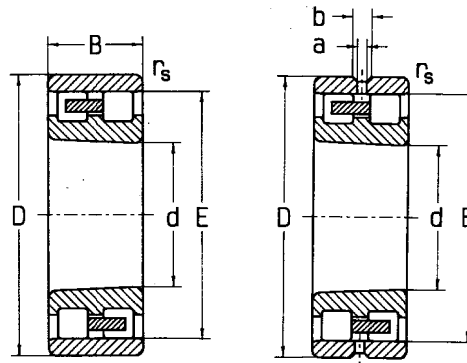


Abutment and Fillet Dimensions					Weight
d	d <sub>a</sub> min	D <sub>a</sub> min	D <sub>a</sub> max	r <sub>a</sub> max	~
mm					kg lbs
30	35	49	50	1	0.190 0.418
35	40	56	57	1	0.250 0.551
40	45	62	63	1	0.300 0.661
45	50	69	70	1	0.380 0.837
50	55	74	75	1	0.420 0.925
55	62	82	84	1	0.620 1.365
60	67	87	88	1	0.660 1.453
65	72	92	93	1	0.710 1.563
70	77	102	103	1	1.00 2.20
75	82	107	108	1	1.10 2.42
80	87	115	118	1	1.50 3.30
85	92	120	123	1	1.60 3.52
90	98	129	132	1.5	2.00 4.40
95	103	134	137	1.5	2.10 4.62
100	108	139	142	1.5	2.20 4.84
105	114	148	151	2	2.80 6.16
110	119	157	161	2	3.55 7.81
120	129	167	171	2	3.85 8.47
130	139	184	191	2	5.75 12.66
140	150	194	200	2	6.20 13.65

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# Double Row Tapered Bore Cylindrical Roller Bearings

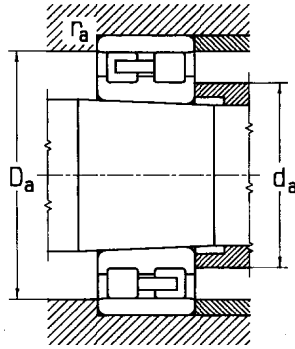
Sizes 150 mm – 440 mm



W33

Dimensions								Basic Load Rating		Limiting Speed for Lubricating by		Bearing Designation
d	D	B	r <sub>s</sub> min	E	a	b	s <sup>1)</sup>	Dynamic C <sub>r</sub>	Static C <sub>0r</sub>	Grease	Oil	
mm								kN lbf		min <sup>-1</sup>		
<b>150</b>	225	56	2.1	206	4.5	8.3	1.5	322 72,200	521 117,000	3,500	4,000	<b>NN3030K</b>
<b>160</b>	240	60	2.1	219	4.5	8.3	1.5	362 81,000	596 133,000	3,300	3,800	<b>NN3032K</b>
<b>170</b>	260	67	2.1	236	4.5	8.3	4	447 100,000	750 168,000	3,000	3,300	<b>NN3034K</b>
<b>180</b>	280	74	2.1	255	6	11.1	4.5	562 126,000	926 207,000	2,800	3,200	<b>NN3036K</b>
<b>190</b>	290	75	2.1	265	6	11.1	4.5	596 133,000	1,020 228,000	2,700	3,000	<b>NN3038K</b>
<b>200</b>	310	82	2.1	282	6	11.1	5.7	643 144,000	1,060 237,000	2,400	2,700	<b>NN3040K</b>
<b>220</b>	340	90	3	310	7.5	13.9	6.7	810 181,000	1,360 304,000	2,200	2,500	<b>NN3044K</b>
<b>240</b>	360	92	3	330	7.5	13.9	6.7	841 188,000	1,470 329,000	2,100	2,400	<b>NN3048K</b>
<b>260</b>	400	104	4	364	7.5	13.9	6.7	1,040 233,000	1,850 414,000	1,900	2,100	<b>NN3052K</b>
<b>280</b>	420	106	4	384	7.5	13.9	6.7	1,100 246,000	2,000 447,000	1,800	2,000	<b>NN3056K</b>
<b>320</b>	480	121	4	438	9	16.7	8	1,360 304,000	2,510 562,000	1,600	1,800	<b>NN3064K</b>
<b>340</b>	520	133	5	473	9	16.7	9	1,680 376,000	3,100 694,000	1,400	1,600	<b>NN3068K</b>
<b>360</b>	540	134	5	493	9	16.7	9	1,740 391,000	3,350 750,000	1,300	1,500	<b>NN3072K</b>
<b>440</b>	650	157	6	596	12	22.3	13	2,460 552,000	4,920 1,100,000	1,000	1,200	<b>NN3088K</b>

Bearing designations printed in bold face type are currently in our manufacturing schedule. Those shown in normal face type are made to order.



Abutment and Fillet Dimensions					Weight
d	d <sub>a</sub> min	D <sub>a</sub> min	D <sub>a</sub> max	r <sub>a</sub> max	~
mm					kg lbs
150	162	208	213	2	7.50 16.51
160	172	222	228	2	9.08 19.94
170	182	239	248	2	12.4 27.31
180	192	258	268	2	16.5 36.3
190	202	268	278	2	17.0 37.43
200	212	285	298	2	22.0 48.44
220	234	313	326	2.5	28.5 62.76
240	254	333	346	2.5	32.0 70.46
260	278	367	382	3	46.0 101.0
280	298	388	402	3	49.5 109.0
320	338	442	462	3	74.0 163.0
340	362	477	498	4	97.5 215.0
360	382	497	518	4	105 231.0
440	468	602	622	5	183 403.0