

**L.D.**

5 X --	=	mm
5 X 5	=	25 mm
5 X 20	=	100 mm

**Tolerance class of tapered roller bearings**

/P0:	Equivalent to AFBMA class 4
/P6:	Equivalent to AFBMA class 2
/P5:	Equivalent to AFBMA class 3
/P4:	Equivalent to AFBMA class 0
/P2:	Equals tolerance ABEC9

**Designs, Types and Features**

X: Dimension series 320 & 329 conform W/ISO/R355

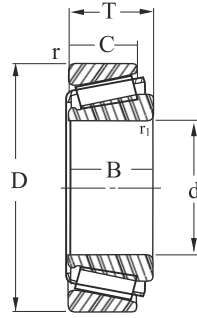
**Contact angle**

- C: Medium contact angle 17° ~ 24°
- D: Steep contact angle 25° ~ 45° now replaced by using 313xx series
- LM: Light load symbol
- HM: Heavy load symbol

**Mounting combinations:**

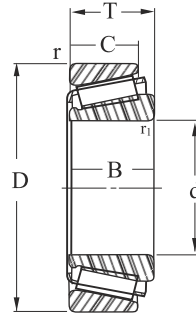
- DB: Back-to-back
- DF: Face-to-face
- KLR: DB combination cone spacer
- KR: DF combination cup spacer

# TAPERED ROLLER BEARINGS



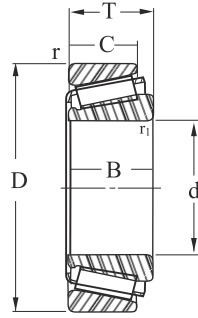
Principal dimensions mm (in)							Weight kg (lb)	Bearing Number	Basic Load Rating kN (lbf)		Limiting Speed (rpm)						
d	D	T	B	C	r <sub>1min</sub>	r <sub>smin</sub>			Dynamic C <sub>r</sub>	Static Cor	Grease	Oil					
15 0.5905	35 1.3779	11.75 0.4626	11 0.4330	10.0 0.3937	0.6 0.024	0.6 0.024	0.053 0.117	30202	20.88 4700	19.97 4490	9400	12000					
	42 1.6535	14.25 0.5610	13 0.5118	11.0 0.4330	1.0 0.039	1.0 0.039	0.098 0.216						30302	18.45 4150	19.49 4390	9400	12000
17 0.6692	40 1.5748	13.25 0.5216	12 0.4724	11.0 0.4330	1.0 0.039	1.0 0.039	0.079 0.174	30203	26.01 5850	25.25 5680	8600	11000					
	40 1.5748	17.25 0.6791	16 0.6299	14.0 0.5511	1.0 0.039	1.0 0.039	0.105 0.232	32203									
	47 1.8503	15.25 0.6003	14 0.5511	12.0 0.4724	1.0 0.039	1.0 0.039	0.134 0.295	30303									
20 0.7874	42 1.6535	15.00 0.5905	15 0.5905	12.0 0.4724	0.6 0.024	0.6 0.024	0.097 0.214	32004X	22.41 5040	26.78 6030	9000	12000					
	47 1.8503	15.25 0.6003	14 0.5511	12.0 0.4724	1.0 0.039	1.0 0.039	0.127 0.280	30204	25.38 5710	27.55 6200	8400	11000					
	47 1.8503	19.25 0.7578	18 0.7086	15.0 0.5905	1.0 0.039	1.0 0.039	0.160 0.353	32204	32.85 7390	37.92 8530	8400	11000					
	52 2.0472	16.25 0.6397	15 0.5905	13.0 0.5118	1.5 0.059	1.5 0.059	0.172 0.379	30304	31.95 7190	32.64 7340	7600	10000					
	52 2.0472	22.25 0.8759	21 0.8267	18.0 0.7086	1.5 0.059	1.5 0.059	0.241 0.531	32304	41.85 9420	46.56 10480	7600	10000					
	25 0.9842	47 1.8503	15.00 0.5905	15 0.5905	11.5 0.4527	0.6 0.024	0.6 0.024	0.116 0.256	32005X	25.02 5630	32.16 7240	7500	10000				
		47 1.8503	17.00 0.6692	17 0.6692	14.0 0.5511	0.6 0.024	0.6 0.024	0.131 0.289	33005	28.35 6380	32.64 7340	6900	9300				
52 2.0472		16.25 0.6397	15 0.5905	13.0 0.5118	1.0 0.039	1.0 0.039	0.157 0.346	30205									
52 2.0472		19.25 0.7578	18 0.7086	15.0 0.5905	1.0 0.039	1.0 0.039	0.187 0.412	32205									
52 2.0472		22.00 0.8661	22 0.8661	18.0 0.7086	1.0 0.039	1.0 0.039	0.221 0.487	33205									
62 2.4409		18.25 0.7185	17 0.6692	15.0 0.5905	1.5 0.059	1.5 0.059	0.270 0.595	30305									
62 2.4409		25.25 0.9940	24 0.9448	20.0 0.7874	1.5 0.059	1.5 0.059	0.376 0.829	32305									
30 1.1811		55 2.1653	17.00 0.6692	17 0.6692	13.0 0.5118	1.0 0.039	1.0 0.039	0.172 0.379	32006X					33.75 7590	44.16 9940	6600	8700
		55 2.1653	20.00 0.7874	20 0.7874	16.0 0.6299	1.0 0.039	1.0 0.039	0.208 0.459	33006					39.15 8810	46.08 10370	6000	7900
	62 2.4409	17.25 0.6791	16 0.6299	14.0 0.5511	1.0 0.039	1.0 0.039	0.238 0.525	30206									
	62 2.4409	21.25 0.8366	20 0.7874	17.0 0.6692	1.0 0.039	1.0 0.039	0.297 0.655	32206									
	62 2.4409	25.00 0.9842	25 0.9842	19.5 0.7677	1.0 0.039	1.0 0.039	0.355 0.783	33206									
	72 2.8346	20.75 0.8169	19 0.7480	16.0 0.6299	1.5 0.059	1.5 0.059	0.403 0.889	30306									
	72 2.8346	28.75 1.1318	27 1.0629	23.0 0.9055	1.5 0.059	1.5 0.059	0.570 1.257	32306									
	35 1.3779	62 2.4409	18.00 0.7086	18 0.7086	14.0 0.5511	1.0 0.039	1.0 0.039	0.230 0.507	32007X	37.35 8400	50.40 11340	5800	7700				
		62 2.4409	21.00 0.8267	21 0.8267	17.0 0.6692	1.0 0.039	1.0 0.039	0.267 0.589	33007	49.95 11240	59.04 13280	5200	7000				
72 2.8346		18.25 0.7185	17 0.6692	15.0 0.5905	1.5 0.059	1.5 0.059	0.340 0.750	30207									
72 2.8346		24.25 0.9547	23 0.9055	19.0 0.7480	1.5 0.059	1.5 0.059	0.456 1.005	32207									
72 2.8346		28.00 1.1023	28 1.1023	22.0 0.8661	1.5 0.059	1.5 0.059	0.540 1.191	33207									
80 3.1496		22.75 0.8956	21 0.8267	18.0 0.7086	2.0 0.079	1.5 0.059	0.538 1.186	30307									
80 3.1496		32.75 1.2893	31 1.2204	25.0 0.9842	2.0 0.079	1.5 0.059	0.765 1.687	32307									
40 1.5748		68 2.6771	19.00 0.7480	19 0.7480	14.50 0.5708	1.0 0.039	1.0 0.039	0.280 0.617	32008X					45.00 10130	62.88 14150	5000	6700
		68 2.6771	22.00 0.8661	22 0.8661	18.00 0.7086	1.0 0.039	1.0 0.039	0.322 0.710	33008					53.55 12050	79.20 17820	5000	6700
	80 3.1496	19.75 0.7775	18 0.7086	16.00 0.6299	1.5 0.059	1.5 0.059	0.438 0.966	30208	54.90 12350					64.32 14470	4700	6300	
	80 3.1496	24.75 0.9744	23 0.9055	19.00 0.7480	1.5 0.059	1.5 0.059	0.549 1.211	32208	71.55 16100	89.76 20200	4700	6300					
	80 3.1496	32.00 1.2598	32 1.2598	25.00 0.9842	1.5 0.059	1.5 0.059	0.744 1.641	33208	92.70 20860	126.72 28510	4700	6300					
	90 3.5433	25.25 0.9940	23 0.9055	20.00 0.7874	2.0 0.079	1.5 0.059	0.758 1.671	30308	82.35 18530	97.92 22030	4200	5600					
	90 3.5433	25.25 1.3878	33 1.2992	27.00 1.0629	2.0 0.079	1.5 0.059	1.050 2.315	32308	109.80 24710	144.00 32400	4200	5600					
	45 1.7716	75 2.9527	20.00 0.7874	20 0.7874	15.50 0.6102	1.0 0.039	1.0 0.039	0.354 0.781	32009X	51.75 11640	73.44 16520	4600	6000				
		75 2.9527	24.00 0.9448	24 0.9448	19.00 0.7480	1.0 0.039	1.0 0.039	0.414 0.913	33009	59.40 13370	89.76 20200	4600	6000				

# TAPERED ROLLER BEARINGS



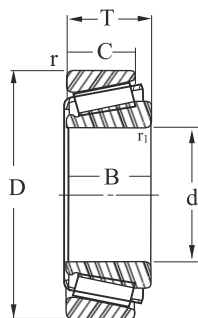
Principal dimensions mm (in)							Weight kg (lb)	Bearing Number	Basic Load Rating kN (lbf)		Limiting Speed (rpm)				
d	D	T	B	C	r <sub>1min</sub>	r <sub>smin</sub>			Dynamic C <sub>r</sub>	Static C <sub>or</sub>	Grease	Oil			
	80	26.00	26	20.50	1.5	1.5	0.052	33109	76.05	110.40	4500	5900			
	3.1496	1.0236	1.0236	0.8070	0.059	0.059	1.217		17110	24840					
	85	20.75	19	16.00	1.5	1.5	0.488		30209	60.75			75.36	4200	5600
	3.3464	0.8169	0.7480	0.6299	0.059	0.059	1.076			13670			16960		
	85	24.75	23	19.00	1.5	1.5	0.602		32209	73.80			96.00	4200	5600
	3.3464	0.9744	0.9055	0.7480	0.059	0.059	1.327			16610			21600		
	85	32.00	32	25.00	1.5	1.5	0.817		33209	96.30			145.36	4200	5600
	3.3464	1.2598	1.2598	0.9842	0.059	0.059	1.801			21670			30460		
	100	27.25	25	22.00	2.0	1.5	1.010		30309	99.90			120.96	3800	5000
	3.9370	1.0728	0.9842	0.4724	0.079	0.059	2.227			22480			27220		
100	38.25	36	30.00	2.0	1.5	1.420	32309	138.60	183.36	3800	5000				
3.9370	1.5059	1.4173	1.1811	0.079	0.059	3.131		31190	41260						
50 1.9685	80	20.00	20	15.50	1.0	1.0	0.380	32010X	56.25	84.48	4200	5500			
	3.1496	0.7874	0.7874	0.6102	0.039	0.039	0.858		12660	19010					
	80	24.00	24	19.00	1.0	1.0	0.452		33010	62.55			98.88	4200	5500
	3.1496	0.9448	0.9448	0.7480	0.039	0.039	0.997			14070			22250		
	85	26.00	26	20.00	1.5	1.5	0.597		33110	77.85			116.16	4000	5300
	3.3464	1.0236	1.0236	0.7874	0.059	0.059	1.316			17520			26140		
	90	21.75	20	17.00	1.5	1.5	0.558		30210	69.30			89.28	3800	5000
	3.5433	0.8563	0.7874	0.6692	0.059	0.059	1.230			15590			20090		
	90	24.75	23	19.00	1.5	1.5	0.644		32210	78.75			104.64	3800	5000
	3.5433	0.9744	0.9055	0.7480	0.059	0.059	1.420			17720			23540		
	90	32.00	32	24.50	1.5	1.5	0.867		33210	103.50			151.68	3800	5000
	3.5433	1.2598	1.2598	0.9645	0.059	0.059	1.912			23290			34130		
	110	29.25	27	23.00	2.5	2.0	1.280		30310	119.70			145.92	3400	4600
	4.3307	1.1515	1.0629	0.9055	0.098	0.079	2.822			26930			32830		
110	42.25	40	33.00	2.5	2.0	1.880	32310	165.60	222.72	3400	4600				
4.3307	1.6633	1.5748	1.2992	0.098	0.079	4.145		37260	50110						
55 2.1653	90	23.00	23	17.50	1.5	1.5	0.568	32011X	72.45	113.28	3800	5100			
	3.5433	0.9055	0.9055	0.6889	0.059	0.059	1.252		16300	25490					
	90	27.00	27	21.00	1.5	1.5	0.657		33011	82.35			132.48	3800	5100
	3.5433	1.0629	1.0629	0.8267	0.059	0.059	1.449			18530			29810		
	95	30.00	30	23.00	1.5	1.5	0.877		33111	99.90			148.80	3700	4900
	3.7401	1.1811	1.1811	0.9055	0.059	0.059	1.934			22480			33480		
	100	22.75	21	18.00	2.0	1.5	0.736		30211	83.70			106.56	3400	4600
	3.9370	0.8956	0.8267	0.7086	0.079	0.059	1.623			18830			23980		
	100	26.75	25	21.00	2.0	1.5	0.860		32211	97.20			128.64	3400	4600
	3.9370	1.0531	0.9842	0.8267	0.079	0.059	1.896			21870			28940		
	100	35.00	35	27.00	2.0	1.5	1.180		33211	124.20			180.48	3400	4600
	3.9370	1.3779	1.3779	1.0629	0.079	0.059	2.602			27950			40610		
	120	31.50	29	25.00	2.5	2.0	1.630		30311	139.50			171.84	3100	4200
	4.7244	1.2401	1.1417	0.9842	0.098	0.079	3.594			31390			38660		
120	45.50	43	35.00	2.5	2.0	2.390	32311	193.50	264.00	3100	4200				
4.7244	1.7913	1.6929	1.3779	0.098	0.079	5.270		43540	59400						
60 2.3622	95	23.00	23	17.50	1.5	1.5	0.608	32012X	73.80	118.08	3500	4600			
	3.7401	0.9055	0.9055	0.6889	0.059	0.059	1.341		16610	26570					
	95	27.00	27	21.00	1.5	1.5	0.713		33012	84.15			139.20	3500	4600
	3.7401	1.0629	1.0629	0.8267	0.059	0.059	1.572			18930			31320		
	100	30.00	30	23.00	1.5	1.5	0.910		33112	101.70			157.44	3400	4500
	3.9370	1.1811	1.1811	0.9055	0.059	0.059	2.007			22880			35420		
	110	23.75	22	19.00	2.0	1.5	0.930		30212	94.50			120.00	3200	4300
	4.3307	0.9350	0.8661	0.7480	0.079	0.059	2.051			21260			27000		
	110	29.75	28	24.00	2.0	1.5	1.180		32212	117.00			157.44	3200	4300
	4.3307	1.1712	1.1023	0.9448	0.079	0.059	2.602			26330			35420		
	110	38.00	38	29.00	2.0	1.5	1.560		33212	150.30			224.64	3200	4300
	4.3307	1.4960	1.4960	1.1417	0.079	0.059	3.440			33820			50540		
	130	33.50	31	26.00	3.0	2.5	2.030		30312	162.00			201.60	2900	3800
	4.3307	1.3189	1.2204	1.0236	0.118	0.098	4.476			36450			45360		
130	48.50	46	37.00	3.0	2.5	2.960	32312	219.60	302.40	2900	3800				
4.3307	1.9094	1.8110	1.4566	0.118	0.098	6.527		49410	68040						
65 2.5590	100	23.00	23	17.50	1.5	1.5	0.646	32013X	74.70	122.88	3200	4400			
	3.9370	0.9055	0.9055	0.6889	0.059	0.059	1.424		16810	27650					
	100	27.00	27	21.00	1.5	1.5	0.760		33013	87.75			149.76	3200	4400
	3.9370	1.0629	1.0629	0.8267	0.059	0.059	1.676			19740			33700		
	110	34.00	34	26.50	1.5	1.5	1.320		33113	129.60			202.56	3100	4200
	4.3307	1.3385	1.3385	1.0433	0.059	0.059	2.911			29160			45580		
	120	24.50	23	20.00	2.0	1.5	1.180		30213	110.70			142.08	2900	4000
	4.7244	0.9645	0.9055	0.7874	0.079	0.059	2.602			24910			31970		
	120	32.75	31	27.00	2.0	1.5	1.550		32213	143.10			197.76	2900	4000
	4.7244	1.2893	1.2204	1.0629	0.079	0.059	3.418			32200			44500		
	120	41.00	41	32.00	2.0	1.5	2.040		33213	175.50			254.40	2900	4000
	4.7244	1.6141	1.6141	1.2598	0.079	0.059	4.498			39490			57240		
	140	36.00	33	28.00	3.0	2.5	2.510		30313	182.70			228.48	2700	3500
	4.7244	1.4173	1.2992	1.1023	0.118	0.098	5.535			41110			51410		
140	51.00	48	39.00	3.0	2.5	3.600	32313	245.70	302.40	2700	3500				
4.7244	2.0078	1.8897	1.5354	0.118	0.098	7.938		55280	74000						
70 2.7559	110	25.00	25	19.00	1.5	1.5	0.869	32014X	94.50	153.60	3000	4000			
	4.3307	0.9842	0.9842	0.7480	0.059	0.059	1.916		21260	34560					
	110	31.00	31	25.50	1.5	1.5	1.110		25720	44060					

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Principal dimensions mm (in)							Weight kg (lb)	Bearing Number	Basic Load Rating kN (lbf)		Limiting Speed (rpm)	
d	D	T	B	C	r <sub>1min</sub>	r <sub>smin</sub>			Dynamic C <sub>r</sub>	Static Cor	Grease	Oil
	120 4.7244	37.00 1.4566	37 1.4566	29.00 1.1417	2.0 0.079	1.5 0.059	1.710 3.771	<b>33114</b>				
	125 4.9212	26.25 1.0334	24 0.9448	21.00 0.8267	2.0 0.079	1.5 0.059	1.300 2.867	<b>30214</b>	117.90 26530	155.52 34990	2800	3700
	125 4.9212	33.25 1.3090	31 1.2204	27.00 1.0629	2.0 0.079	1.5 0.059	1.660 3.660	<b>32214</b>	149.40 33620	211.20 47520	2800	3700
	125 4.9212	41.00 1.6141	41 1.6141	32.00 1.2598	2.0 0.079	1.5 0.059	2.150 4.741	<b>33214</b>	180.90 40700	270.72 60910	2800	3700
	150 5.9055	38.00 1.4960	35 1.3779	30.00 1.1811	3.0 0.118	2.5 0.098	3.030 6.681	<b>30314</b>	207.00 46580	261.12 58750	2500	3300
	150 5.9055	54.00 2.1259	51 2.0078	42.00 1.6535	3.0 0.118	2.5 0.098	4.350 9.592	<b>32314</b>	279.00 62780	388.80 87480	2500	3300
<b>75</b> 2.9527	115 4.5275	25.00 0.9842	25 0.9842	19.00 0.7480	1.5 0.059	1.5 0.059	0.925 2.040	<b>32015X</b>	95.40 21470	160.32 36070	2900	3800
	115 4.5275	31.00 1.2204	31 1.2204	25.50 1.0039	1.5 0.059	1.5 0.059	1.180 2.602	<b>33015</b>	116.10 26120	203.52 45790	2900	3800
	125 4.9212	37.00 1.4566	37 1.4566	29.00 1.1417	2.0 0.079	1.5 0.059	1.800 3.969	<b>33115</b>				
	130 5.1181	27.25 1.0728	25 0.9842	22.00 0.8661	2.0 0.079	1.5 0.059	1.430 3.153	<b>30215</b>	125.10 28150	168.00 37800	2700	3400
	130 5.1181	33.25 1.3090	31 1.2204	27.00 1.0629	2.0 0.079	1.5 0.059	1.720 3.793	<b>32215</b>	151.20 34020	215.04 48380	2700	3400
	130 5.1181	41.00 1.6141	41 1.6141	31.00 1.2204	2.0 0.079	1.5 0.059	2.250 4.961	<b>33215</b>	187.20 42120	286.08 64370	2700	3400
	160 6.2992	40.00 1.5748	37 1.4566	31.00 1.2204	3.0 0.118	2.5 0.098	3.630 8.004	<b>30315</b>	229.50 51640	292.80 65880	2300	3000
	160 6.2992	58.00 2.2834	55 2.1653	45.00 1.7716	3.0 0.118	2.5 0.098	5.310 11.709	<b>32315</b>	319.50 71890	451.20 101520	2300	3000
<b>80</b> 3.1496	125 4.9212	29.00 1.1417	29 1.1417	22.00 0.8661	1.5 0.059	1.5 0.059	1.32 2.911	<b>32016X</b>	125.10 28150	207.36 46660	2700	3500
	125 4.9212	36.00 1.4173	36 1.4173	39.50 1.5551	1.5 0.059	1.5 0.059	1.66 3.660	<b>33016X</b>	155.70 35030	272.64 61340	2700	3500
	130 5.1181	37.00 1.4566	37 1.4566	29.00 1.1417	2.0 0.079	1.5 0.059	1.88 4.145	<b>33116</b>				
	140 5.5118	28.25 1.1122	26 1.0236	22.00 0.8661	2.5 0.098	2.0 0.079	1.69 3.726	<b>30216</b>	144.00 32400	192.00 43200	2400	3200
	140 5.5118	35.35 1.3917	33 1.2992	28.00 1.1023	2.5 0.098	2.0 0.079	2.13 4.697	<b>32216</b>	179.10 40300	254.40 57240	2400	3200
	140 5.5118	46.00 1.8110	46 1.8110	35.00 1.3779	2.5 0.098	2.0 0.079	2.93 6.461	<b>33216</b>	225.00 50630	350.40 78840	2400	3200
	170 6.6929	42.50 1.6732	39 1.6732	33.00 1.2992	3.0 0.118	2.5 0.098	4.27 9.415	<b>30316</b>	261.90 58930	366.00 82560	2200	2800
<b>85</b> 3.3464	170 6.6929	61.50 2.4212	58 2.2834	48.00 1.8897	3.0 0.118	2.5 0.098	6.35 14.002	<b>32316</b>	355.50 79990	504.00 113400	2200	2800
	130 5.1181	29.00 1.1417	29 1.1417	22.00 0.8661	1.5 0.059	1.5 0.059	1.38 3.043	<b>32017X</b>	127.80 28760	215.04 48380	2500	3300
	130 5.1181	36.00 1.4173	36 1.4173	29.50 1.1614	1.5 0.059	1.5 0.059	1.75 3.859	<b>33017</b>	158.40 35640	188.16 42340	2500	3300
	140 5.5118	41.00 1.6141	41 1.6141	32.00 1.2598	2.5 0.098	2.0 0.079	2.51 5.535	<b>33117</b>				
	150 5.9055	30.50 1.2007	28 1.1023	24.00 0.9448	2.5 0.098	2.0 0.079	2.12 4.675	<b>30217</b>	164.70 37060	222.72 50110	2300	3000
	150 5.9055	38.50 1.5157	36 1.4173	30.00 1.1811	2.5 0.098	2.0 0.079	2.64 5.821	<b>32217</b>	201.60 45360	288.00 64800	2300	3000
	150 5.9055	49.00 1.9291	49 1.9291	37.00 1.4566	2.5 0.098	2.0 0.079	3.57 7.872	<b>33217</b>	255.60 57510	403.20 90720	2300	3000
<b>90</b> 3.5433	180 7.0866	44.50 1.7519	41 1.6141	34.00 1.3385	4.0 0.157	3.0 0.118	5.08 11.201	<b>30317</b>	274.50 61760	350.40 78840	2000	2700
	180 7.0866	63.50 2.5000	60 2.3622	49.00 1.9291	4.0 0.157	3.0 0.118	7.31 16.119	<b>32317</b>	364.50 82010	504.00 113400	2000	2700
	140 5.5118	32.00 1.2598	32 1.2598	24.00 0.9448	2.0 0.079	1.5 0.059	1.78 3.925	<b>32018X</b>	151.20 34020	259.20 58320	2400	3100
	140 5.5118	39.00 1.5354	39 1.5354	32.50 1.2795	2.0 0.079	1.5 0.059	2.21 4.873	<b>33018</b>	193.50 43540	345.60 77760	2400	3100
	150 5.9055	45.00 1.7716	45 1.7716	35.00 1.3779	2.5 0.098	2.0 0.079	3.14 6.924	<b>33118</b>				
	160 6.2992	32.50 1.2795	30 1.1811	26.00 1.0236	2.5 0.098	2.0 0.079	2.60 5.733	<b>30218</b>	187.20 42120	256.32 57670	2100	2800
<b>95</b> 3.7401	160 6.2992	42.50 1.6732	40 1.5748	34.00 1.3385	2.5 0.098	2.0 0.079	3.41 7.519	<b>32218</b>	235.80 53060	345.60 77760	2100	2800
	190 7.4803	46.50 1.8307	43 1.6929	36.00 1.4173	4.0 0.157	3.0 0.118	5.67 12.502	<b>30318</b>	301.50 67840	388.80 87480	2000	2500
	190 7.4803	67.50 2.6574	64 2.5196	53.00 2.0866	4.0 0.157	3.0 0.118	8.30 18.302	<b>32318</b>	405.00 91130	571.20 128520	2000	2500
	145 5.7086	32.00 1.2598	32 1.2598	24.00 0.9448	2.0 0.079	1.5 0.059	1.88 4.145	<b>32019X</b>	153.90 34630	268.80 60480	2200	2900
	145 5.7086	39.00 1.5354	39 1.5354	32.50 1.2795	2.0 0.079	1.5 0.059	2.30 5.072	<b>33019</b>	197.10 44350	360.00 81000	2200	2900
<b>100</b> 3.9370	170 6.6929	34.50 1.3582	32 1.2598	27.00 1.0629	3.0 0.118	2.5 0.098	3.13 6.902	<b>30219</b>	203.40 45770	278.40 62640	2000	2700
	170 6.6929	45.50 1.7913	43 1.6929	37.00 1.4566	3.0 0.118	2.5 0.098	4.22 9.305	<b>32219</b>	269.10 60550	398.40 89640	2000	2700

# TAPERED ROLLER BEARINGS



Principal dimensions mm (in)							Weight kg (lb)	Bearing Number	Basic Load Rating kN (lbf)		Limiting Speed (rpm)					
d	D	T	B	C	r <sub>1min</sub>	r <sub>smn</sub>			Dynamic C <sub>r</sub>	Static C <sub>or</sub>	Grease	Oil				
	200 7.8740	49.50 1.9488	45 1.7716	38.00 1.4960	4.0 0.157	3.0 0.118	6.55 14.443	<b>30319</b>	328.50 73910	427.20 96120	2000	2400				
	200 7.8740	71.50 2.8149	67 2.6378	55.00 2.1653	4.0 0.157	3.0 0.118	9.65 21.278						<b>32319</b>			
		150 5.9055	32.00 1.2598	32 1.2598	24.00 0.9448	2.0 0.079	1.5 0.059	1.95 4.300	<b>32020X</b>	153.00 34430	269.76 60700	2100	2900			
		150 5.9055	39.00 1.5354	39 1.5354	32.50 1.2795	2.0 0.079	1.5 0.059	2.38 5.248						<b>33020</b>		
			180 7.0866	37.00 1.4566	34 1.3385	29.00 1.1417	3.0 0.118	2.5 0.098	3.78 8.335	<b>30220</b>	232.20 52250	321.60 72360	1900	2600		
			180 7.0866	49.00 1.9291	46 1.8110	39.00 1.5354	3.0 0.118	2.5 0.098	5.05 11.135						<b>32220</b>	
				215 8.4645	51.50 2.0275	47 1.8503	39.00 1.5354	4.0 0.157	3.0 0.118	7.94 17.508	<b>30320</b>	369.00 83030	480.00 108000	1700	2300	
				215 8.4645	77.50 3.0511	73 2.8740	60.00 2.3622	4.0 0.157	3.0 0.118	12.70 28.004						<b>32320</b>
					105 4.1338	35.00 1.3779	35 1.3779	26.00 1.0236	2.0 0.079	2.5 0.098	2.42 5.336	<b>32021X</b>	201.00 45230	335.00 75380	2100	2800
					160 6.2992	43.00 1.6929	43 1.6929	34.00 1.3385	2.0 0.079	2.5 0.098	3.00 6.615					
					190 7.4803	39.00 1.5354	36 1.4173	30.00 1.1811	2.5 0.098	3.0 0.118	4.39 9.680	<b>30221</b>	287.00 64580	380.00 85500	1900	2500
					190 7.4803	53.00 2.0866	50 1.9685	43.00 1.6929	2.5 0.098	3.0 0.118	6.25 13.781					
					225 8.8582	53.50 2.1063	49 1.9291	41.00 1.6141	3.0 0.118	3.0 0.118	8.93 19.691	<b>30321</b>	365.00 82130	420.00 94500	1700	2300
					225 8.8582	81.50 3.2086	77 3.0315	63.00 2.4803	3.0 0.118	4.0 0.157	14.5 31.973					
					110 4.3307	38.00 1.4960	38 1.4960	29.00 1.1417	2.0 0.079	2.5 0.098	3.07 6.769	<b>32022X</b>	236.00 53100	390.00 87750	2000	2700
					170 6.6929	47.00 1.8503	47 1.8503	37.00 1.4566	2.0 0.079	2.5 0.098	3.80 8.379					
					200 7.8740	41.00 1.6141	38 1.4960	32.00 1.2598	2.5 0.098	3.0 0.118	5.18 11.422	<b>30222</b>	288.00 64800	500.00 112500	2000	2700
					200 7.8740	56.00 2.2047	53 2.0866	46.00 1.8110	2.5 0.098	3.0 0.118	7.43 16.383					
					240 9.4488	54.50 2.1456	50 1.9685	42.00 1.6535	3.0 0.118	3.0 0.118	10.50 23.153	<b>30322</b>	400.00 9000	465.00 104630	1600	2200
					240 9.4488	84.50 3.3267	80 3.1496	65.00 2.5590	3.0 0.118	3.0 0.118	16.90 37.265					
					120 4.7244	38.00 1.4960	38 1.4960	29.00 1.1417	2.0 0.079	2.5 0.098	3.25 7.166	<b>32024X</b>	245.00 55130	420.00 94500	1800	2500
					215 8.4645	43.50 1.7126	40 1.5748	34.00 1.3385	2.5 0.098	3.0 0.118	6.23 13.737					
					215 8.4645	61.50 2.4212	58 2.2834	50.00 1.9685	2.5 0.098	3.0 0.118	9.08 20.021	<b>32224</b>	460.00 103500	680.00 151300	1700	2200
					260 10.2362	59.50 2.3425	55 2.1653	46.00 1.8110	3.0 0.118	3.0 0.118	13.20 29.106					
					260 10.2362	90.05 3.5452	86 3.3858	69.00 2.7165	3.0 0.118	4.0 0.157	22.40 49.392	<b>32324</b>	815.00 183380	1130.00 254250	1500	2000
					200 7.8740	45.00 1.7716	45 1.7716	34.00 1.3385	2.0 0.079	2.5 0.098	4.96 10.937					
					230 9.0551	43.75 1.7224	40 1.5748	34.00 1.3385	3.0 0.118	4.0 0.157	7.25 15.986	<b>30226</b>	375.00 84380	505.00 113630	1500	2000
					230 9.0551	67.75 2.6673	64 2.5196	54.00 2.1259	3.0 0.118	4.0 0.157	11.20 24.696					
					280 11.0236	63.75 2.5098	58 2.2834	49.00 1.9291	4.0 0.157	4.0 0.157	16.70 36.824	<b>30326</b>	525.00 118130	625.00 140630	1400	1800
					140 5.5118	45.00 1.7716	45 1.7716	34.00 1.3385	2.0 0.079	2.5 0.098	5.28 11.642					
					250 9.8425	45.75 1.8011	42 1.6535	36.00 1.4173	3.0 0.118	3.0 0.118	8.22 18.125	<b>30228</b>	375.00 84380	485.00 109150	1400	1900
					250 9.8425	71.75 2.8248	68 2.6771	58.00 2.2834	3.0 0.118	4.0 0.157	14.10 31.091					
					300 11.8110	67.75 2.6673	62 2.4409	53.00 2.0866	4.0 0.157	4.0 0.157	20.40 45.392	<b>30328</b>	640.00 144000	780.00 175500	1300	1700
					150 5.9055	225 8.8582	48.00 1.8897	48 1.8897	36.00 1.4173	2.5 0.098	3.0 0.118					
					270 10.6299	49.00 1.9291	45 1.7716	38.00 1.4960	3.0 0.118	4.0 0.157	11.20 24.696	<b>30230</b>	450.00 101250	605.00 136130	1300	1700
					270 10.6299	77.00 3.0315	73 2.8740	60.00 2.3622	3.0 0.118	4.0 0.157	18.20 40.131					
					320 12.5984	72.00 2.8346	65 2.5590	55.00 2.1653	4.0 0.157	4.0 0.157	24.70 54.464	<b>30330</b>	680.00 153000	1070.00 240750	1200	1600