

**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

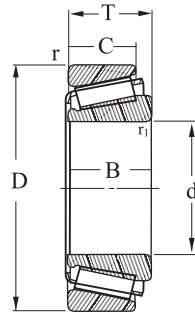
**Contact angle**

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

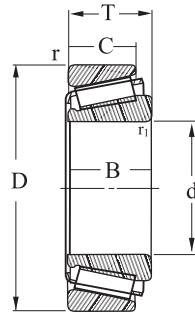
# TAPERED ROLLER BEARINGS



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	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	18.45 4150	19.49 4390	9400	12000	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	26.01 5850	25.25 5680	8600	11000	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	47 1.8503	15.00 0.5905	15 0.5905	12.0 0.4724	0.6 0.024	0.6 0.024	0.097 0.214	32004X	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	20 0.7874	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	43.65 9820	45.60 10260	6400	8400	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	55.35 12450	61.92 13930	6400	8400	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	54.00 12150	58.56 13180	5400	7200	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	72.90 16400	86.40 19440	5400	7200	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	67.50 15190	73.92 16630	4800	6300	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	90.90 20450	110.40 24840	4800	6300	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
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	18.45 4150	19.49 4390	9400	12000																																																																																																																																																																																																																																																																																																																																																																																																																										
	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	26.01 5850	25.25 5680	8600	11000																																																																																																																																																																																																																																																																																																																																																																																																																										
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	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	43.65 9820					45.60 10260	6400	8400																																																																																																																																																																																																																																																																																																																																																																																																																						
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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																																																																																																																																																																																																																																																																																																																																																																																																																						
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	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		54.00 12150	58.56 13180	5400	7200																																																																																																																																																																																																																																																																																																																																																																																																																									
	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		72.90 16400	86.40 19440	5400	7200																																																																																																																																																																																																																																																																																																																																																																																																																									
	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																																																																																																																																																																																																																																																																																																																																																																																																																												
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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	67.50 15190	73.92 16630				4800	6300																																																																																																																																																																																																																																																																																																																																																																																																																							
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	90.90 20450	110.40 24840				4800	6300																																																																																																																																																																																																																																																																																																																																																																																																																							
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																																																																																																																																																																																																																																																																																																																																																																																																																									

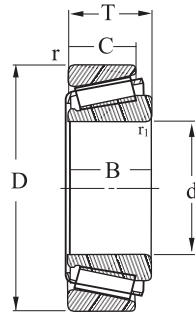


# TAPERED ROLLER BEARINGS



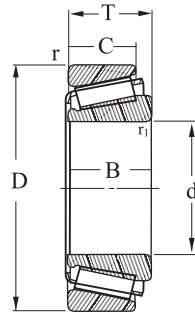
Principal dimensions mm (in)							Weight kg (lb)	Bearing Number	Basic Load Rating kN (lbf)		Limiting Speed (rpm)		
d	D	T	B	C	r <sub>1min</sub>	r <sub>smin</sub>			Dynamic C <sub>r</sub>	Static Cor	Grease	Oil	
	80 3.1496	26.00 1.0236	26 1.0236	20.50 0.8070	1.5 0.059	1.5 0.059	0.052 1.217	<b>33109</b>	76.05 17110	110.40 24840	4500	5900	
	85 3.3464	20.75 0.8169	19 0.7480	16.00 0.6299	1.5 0.059	1.5 0.059	0.488 1.076	<b>30209</b>	60.75 13670	75.36 16960	4200	5600	
	85 3.3464	24.75 0.9744	23 0.9055	19.00 0.7480	1.5 0.059	1.5 0.059	0.602 1.327	<b>32209</b>	73.80 16610	96.00 21600	4200	5600	
	85 3.3464	32.00 1.2598	32 1.2598	25.00 0.9842	1.5 0.059	1.5 0.059	0.817 1.801	<b>33209</b>	96.30 21670	145.36 30460	4200	5600	
	100 3.9370	27.25 1.0728	25 0.9842	22.00 0.4724	2.0 0.079	1.5 0.059	1.010 2.227	<b>30309</b>	99.90 22480	120.96 27220	3800	5000	
	100 3.9370	38.25 1.5059	36 1.4173	30.00 1.1811	2.0 0.079	1.5 0.059	1.420 3.131	<b>32309</b>	138.60 31190	183.36 41260	3800	5000	
	<b>50</b> 1.9685	80 3.1496	20.00 0.7874	20 0.7874	15.50 0.6102	1.0 0.039	1.0 0.039	0.380 0.838	<b>32010X</b>	56.25 12660	84.48 19010	4200	5500
80 3.1496		24.00 0.9448	24 0.9448	19.00 0.7480	1.0 0.039	1.0 0.039	0.452 0.997	<b>33010</b>	62.55 14070	98.88 22250	4200	5500	
85 3.3464		26.00 1.0236	26 1.0236	20.00 0.7874	1.5 0.059	1.5 0.059	0.597 1.316	<b>33110</b>	77.85 17520	116.16 26140	4000	5300	
90 3.5433		21.75 0.8563	20 0.7874	17.00 0.6692	1.5 0.059	1.5 0.059	0.558 1.230	<b>30210</b>	69.30 15590	89.28 20090	3800	5000	
90 3.5433		24.75 0.9744	23 0.9055	19.00 0.7480	1.5 0.059	1.5 0.059	0.644 1.420	<b>32210</b>	78.75 17720	104.64 23540	3800	5000	
90 3.5433		32.00 1.2598	32 1.2598	24.50 0.9645	1.5 0.059	1.5 0.059	0.867 1.912	<b>33210</b>	103.50 23290	151.68 34130	3800	5000	
110 4.3307		29.25 1.1515	27 1.0629	23.00 0.9055	2.5 0.098	2.0 0.079	1.280 2.822	<b>30310</b>	119.70 26930	145.92 32830	3400	4600	
110 4.3307		42.25 1.6633	40 1.5748	33.00 1.2992	2.5 0.098	2.0 0.079	1.880 4.145	<b>32310</b>	165.60 37260	222.72 50110	3400	4600	
<b>55</b> 2.1653		90 3.5433	23.00 0.9055	23 0.9055	17.50 0.6889	1.5 0.059	1.5 0.059	0.568 1.252	<b>32011X</b>	72.45 16300	113.28 25490	3800	5100
		90 3.5433	27.00 1.0629	27 1.0629	21.00 0.8267	1.5 0.059	1.5 0.059	0.657 1.449	<b>33011</b>	82.35 18530	132.48 29810	3800	5100
		95 3.7401	30.00 1.1811	30 1.1811	23.00 0.9055	1.5 0.059	1.5 0.059	0.877 1.934	<b>33111</b>	99.90 22480	148.80 33480	3700	4900
		100 3.9370	22.75 0.8956	21 0.8267	18.00 0.7086	2.0 0.079	1.5 0.059	0.736 1.623	<b>30211</b>	83.70 18830	106.56 23980	3400	4600
		100 3.9370	26.75 1.0531	25 0.9842	21.00 0.8267	2.0 0.079	1.5 0.059	0.860 1.896	<b>32211</b>	97.20 21870	128.64 28940	3400	4600
	100 3.9370	35.00 1.3779	35 1.3779	27.00 1.0629	2.0 0.079	1.5 0.059	1.180 2.602	<b>33211</b>	124.20 27950	180.48 40610	3400	4600	
	120 4.7244	31.50 1.2401	29 1.1417	25.00 0.9842	2.5 0.098	2.0 0.079	1.630 3.594	<b>30311</b>	139.50 31390	171.84 38660	3100	4200	
	120 4.7244	45.50 1.7913	43 1.6929	35.00 1.3779	2.5 0.098	2.0 0.079	2.390 5.270	<b>32311</b>	193.50 43540	264.00 59400	3100	4200	
	<b>60</b> 2.3622	95 3.7401	23.00 0.9055	23 0.9055	17.50 0.6889	1.5 0.059	1.5 0.059	0.608 1.341	<b>32012X</b>	73.80 16610	118.08 26570	3500	4600
		95 3.7401	27.00 1.0629	27 1.0629	21.00 0.8267	1.5 0.059	1.5 0.059	0.713 1.572	<b>33012</b>	84.15 18930	139.20 31320	3500	4600
		100 3.9370	30.00 1.1811	30 1.1811	23.00 0.9055	1.5 0.059	1.5 0.059	0.910 2.007	<b>33112</b>	101.70 22880	157.44 35420	3400	4500
110 4.3307		23.75 0.9350	22 0.8661	19.00 0.7480	2.0 0.079	1.5 0.059	0.930 2.051	<b>30212</b>	94.50 21260	120.00 27000	3200	4300	
110 4.3307		29.75 1.1712	28 1.1023	24.00 0.9448	2.0 0.079	1.5 0.059	1.180 2.602	<b>32212</b>	117.00 26330	157.44 35420	3200	4300	
110 4.3307		38.00 1.4960	38 1.4960	29.00 1.1417	2.0 0.079	1.5 0.059	1.560 3.440	<b>33212</b>	150.30 33820	224.64 50540	3200	4300	
130 4.3307		33.50 1.3189	31 1.2204	26.00 1.0236	3.0 0.118	2.5 0.098	2.030 4.476	<b>30312</b>	162.00 36450	201.60 45360	2900	3800	
130 4.3307		48.50 1.9094	46 1.8110	37.00 1.4566	3.0 0.118	2.5 0.098	2.960 6.527	<b>32312</b>	219.60 49410	302.40 68040	2900	3800	
<b>65</b> 2.5590		100 3.9370	23.00 0.9055	23 0.9055	17.50 0.6889	1.5 0.059	1.5 0.059	0.646 1.424	<b>32013X</b>	74.70 16810	122.88 27650	3200	4400
		100 3.9370	27.00 1.0629	27 1.0629	21.00 0.8267	1.5 0.059	1.5 0.059	0.760 1.676	<b>33013</b>	87.75 19740	149.76 33700	3200	4400
		110 4.3307	34.00 1.3385	34 1.3385	26.50 1.0433	1.5 0.059	1.5 0.059	1.320 2.911	<b>33113</b>	129.60 29160	202.56 45580	3100	4200
	120 4.7244	24.50 0.9645	23 0.9055	20.00 0.7874	2.0 0.079	1.5 0.059	1.180 2.602	<b>30213</b>	110.70 24910	142.08 31970	2900	4000	
	120 4.7244	32.75 1.2893	31 1.2204	27.00 1.0629	2.0 0.079	1.5 0.059	1.550 3.418	<b>32213</b>	143.10 32200	197.76 44500	2900	4000	
	120 4.7244	41.00 1.6141	41 1.6141	32.00 1.2598	2.0 0.079	1.5 0.059	2.040 4.498	<b>33213</b>	175.50 39490	254.40 57240	2900	4000	
	140 4.7244	36.00 1.4173	33 1.2992	28.00 1.1023	3.0 0.118	2.5 0.098	2.510 5.535	<b>30313</b>	182.70 41110	228.48 51410	2700	3500	
	140 4.7244	51.00 2.0078	48 1.8897	39.00 1.5354	3.0 0.118	2.5 0.098	3.600 7.938	<b>32313</b>	245.70 55280	240.00 54000	2700	3500	
<b>70</b> 2.7559	110 4.3307	25.00 0.9842	25 0.9842	19.00 0.7480	1.5 0.059	1.5 0.059	0.869 1.916	<b>32014X</b>	94.50 21260	153.60 34560	3000	4000	
	110 4.3307	31.00 1.2204	31 1.2204	25.50 1.0039	1.5 0.059	1.5 0.059	1.110 2.448	<b>33014</b>	114.30 25720	195.84 44060	3000	4000	

# 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
	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 75600	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>smin</sub>			Dynamic C <sub>r</sub>	Static Cor	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>	201.60 45360	374.40 84240	2100	2900
	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>	297.00 66830	446.40 100440	1900	2600
	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>	513.00 115430	739.20 166320	1700	2300
<b>105</b> 4.1338	160 6.2992	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	<b>33021</b>	245.00 55130	420.00 94500	2100	2800
	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	<b>32221</b>	380.00 85500	540.00 121500	1900	2500
	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	<b>32321</b>	610.00 137250	825.00 185630	1700	2300
<b>110</b> 4.3307	170 6.6929	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	<b>33022</b>	288.00 64800	500.00 112500	2000	2700
	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	<b>32222</b>	420.00 94500	605.00 136130	1800	2400
	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	<b>32322</b>	620.00 139500	830.00 186750	1600	2200
<b>120</b> 4.7244	180 7.0866	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	<b>30224</b>	345.00 77630	470.00 105750	1700	2200
	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 153000	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	<b>30324</b>	465.00 104630	550.00 123750	1500	2000
	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
<b>130</b> 5.1181	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	<b>32026X</b>	320.00 72000	545.00 122630	1700	2200
	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 1.2598	3.0 0.118	4.0 0.157	11.20 24.696	<b>32226</b>	530.00 119250	815.00 183380	1500	2000
	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
<b>140</b> 5.5118	210 8.2677	45.00 1.7716	45 1.7716	34.00 1.3385	2.0 0.079	2.5 0.098	5.28 11.642	<b>32028X</b>	330.00 74250	580.00 130500	1600	2100
	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 109130	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	<b>32228</b>	610.00 137250	920.00 207000	1400	1900
	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
<b>150</b> 5.9055	225 8.8582	48.00 1.8897	48 1.8897	36.00 1.4173	2.5 0.098	3.0 0.118	6.37 14.046	<b>32030X</b>	370.00 83250	655.00 147380	1400	1900
	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	<b>32230</b>	700.00 157500	1070.00 240750	1300	1700
	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