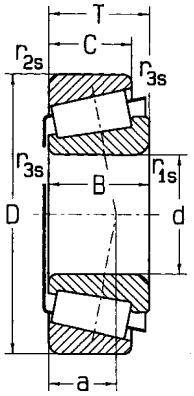
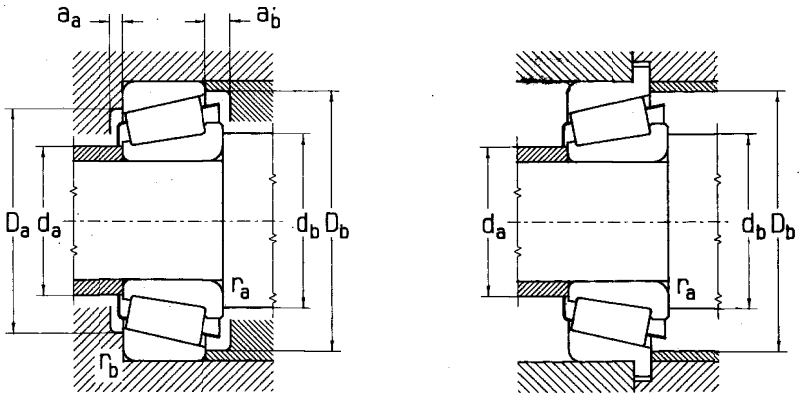
Single Row Tapered Roller Bearings in Inch Dimensions

Sizes 0.6294 inch – 1.5748 inch



Dimensions								Basic Load Rating		Limiting Speed for Lubricating by	
d	D	B	C	T	r_{1s} min	r_{2s} min	a	Dynamic C_r	Static C_{or}	Grease	Oil
mm *inch*								kN *lbf*		min^{-1}	
15.987 ***0.6294***	46.975 *1.8494*	21.000 *0.8268*	16.000 *0.6299*	21.000 *0.8268*	1.0 *0.04*	2.0 *0.08*	15.00 *0.591*	40.6 *9,100*	40.6 *9,120*	9,400	13,000
17.462 ***0.6875***	39.878 *1.5700*	14.605 *0.5750*	10.668 *0.4200*	13.843 *0.5450*	1.3 *0.05*	1.3 *0.05*	9.00 *0.354*	21.1 *4,730*	21.5 *4,830*	10,000	13,000
19.050 ***0.7500***	45.237 *1.7810*	16.637 *0.6550*	12.065 *0.4750*	15.494 *0.6100*	1.3 *0.05*	1.3 *0.05*	9.90 *0.390*	28.2 *6,330*	26.6 *5,970*	11,000	15,000
21.986 ***0.8656***	45.000 *1.7717*	16.637 *0.6550*	12.065 *0.4750*	15.494 *0.6100*	1.2 *0.05*	1.2 *0.05*	11.10 *0.437*	29.9 *6,680*	28.7 *6,450*	8,400	11,000
25.400 ***1.0000***	50.292 *1.9800*	14.732 *0.5800*	10.668 *0.4200*	14.224 *0.5600*	1.3 *0.05*	1.3 *0.05*	10.9 *0.429*	27.1 *6,090*	28.7 *6,450*	8,900	12,000
25.400 ***1.0000***	59.530 *2.3437*	23.114 *0.9100*	18.288 *0.7200*	23.368 *0.9200*	0.8 *0.03*	1.5 *0.06*	18.00 *0.709*	44.7 *10,040*	66.8 *15,010*	5,600	7,500
26.988 ***1.0625***	50.292 *1.9800*	14.732 *0.5800*	10.688 *0.4200*	14.224 *0.5600*	3.5 *0.14*	1.3 *0.05*	10.9 *0.429*	27.1 *6,090*	28.7 *6,450*	8,900	12,000
29.000 ***1.1417***	50.292 *1.9800*	14.732 *0.5800*	10.668 *0.4200*	14.224 *0.5600*	3.5 *0.14*	1.3 *0.05*	11.00 *0.433*	25.6 *5,750*	33.5 *7,530*	7,100	9,400
30.000 ***1.1811***	62.020 *2.4417*	18.100 *0.7126*	15.536 *0.6117*	17.250 *0.6791*	1.5 *0.06*	1.5 *0.06*	14.8 *0.583*	44.7 *10,040*	44.7 *10,040*	6,700	8,900
30.162 ***1.1875***	64.292 *2.5312*	21.433 *0.8438*	16.670 *0.6563*	21.433 *0.8438*	1.5 *0.06*	1.5 *0.06*	18.00 *0.709*	44.7 *10,040*	59.6 *13,390*	5,600	7,500
31.750 ***1.2500***	59.131 *2.3280*	16.764 *0.6600*	11.811 *0.4650*	15.875 *0.6250*	(1)	1.3 *0.05*	13.10 *0.516*	34.8 *7,820*	38.3 *8,600*	7,900	10,600
31.750 ***1.2500***	62.000 *2.4409*	19.050 *0.7500*	14.288 *0.5625*	18.161 *0.7150*	(1)	1.3 *0.05*	13.00 *0.512*	52.1 *11,710*	58.4 *13,120*	7,500	10,000
34.925 ***1.3750***	65.088 *2.5625*	18.288 *0.7200*	13.970 *0.5500*	18.034 *0.7100*	(1)	1.3 *0.05*	14.30 *0.563*	47.3 *10,630*	53.1 *11,930*	7,100	9,400
34.925 ***1.3750***	73.025 *2.8750*	24.608 *0.9688*	19.050 *0.7500*	23.813 *0.9375*	3.5 *0.14*	2.3 *0.09*	18.00 *0.709*	57.3 *12,880*	76.4 *17,170*	6,300	8,400
34.987 ***1.3775***	59.975 *2.3612*	16.764 *0.6600*	11.938 *0.4700*	15.875 *0.6250*	(1)	1.3 *0.05*	13.30 *0.524*	34.8 *7,820*	42.5 *9,550*	7,500	10,000
38.000 ***1.4961***	63.000 *2.4803*	17.000 *0.6693*	13.500 *0.5315*	17.000 *0.6693*	(1)	1.3 *0.05*	14.50 *0.571*	59.6 *13,390*	87.4 *19,640*	6,300	8,400
38.100 ***1.5000***	65.088 *2.5625*	18.288 *0.7200*	13.970 *0.5500*	18.034 *0.7100*	2.3 *0.09*	1.3 *0.05*	13.00 *0.512*	49.2 *11,060*	60.7 *13,640*	5,600	7,500
39.688 ***1.5625***	80.167 *3.1562*	30.391 *1.1965*	23.812 *0.9375*	29.370 *1.1563*	0.8 *0.03*	3.3 *0.13*	18.00 *0.709*	81.0 *18,200*	104.0 *23,370*	4,200	5,600
40.000 ***1.5748***	80.000 *3.1496*	22.403 *0.8820*	17.826 *0.7018*	21.001 *0.8268*	0.8 *0.03*	1.3 *0.05*	15.00 *0.591*	70.8 *15,910*	73.6 *16,540*	4,700	6,300

(1) r^{1s} min. = 3.5mm in radial directions and r^{1s} = min. 4.7mm in axial directions
(2) boundary dimensions correspond to Timken part number 25878/25820, however the internal design is different

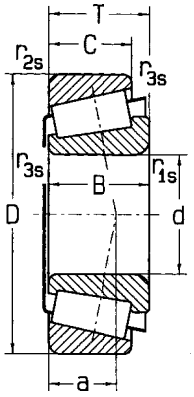


Bearing Designation	Abutment and Fillet Dimensions									Weight	Factors		
	d_a max	d_b min	D_a min	D_a max	D_b min	a_a min	a_b min	r_a max	r_b max	~	e	Y	Y_0
	mm *inch*									kg *lbs*			
K-HM81649/ K-HM81610	23.00 *0.906*	22.00 *0.866*	36.00 *1.417*	39.00 *1.535*	43.00 *1.693*	2.00 *0.079*	4.00 *0.157*	1.0 *0.04*	1.5 *0.06*	0.199 *0.438*	0.55	1.1	0.6
K-LM11749/ K-LM11710	23.00 *0.906*	24.00 *0.945*	33.5 *1.319*	35.00 *1.378*	37.00 *1.457*	2.00 *0.079*	3.00 *0.118*	1.0 *0.04*	1.0 *0.04*	0.086 *0.189*	0.29	2.1	1.2
K-LM11949/ K-LM11910	25.00 *0.984*	25.50 *1.004*	38.00 *1.496*	38.50 *1.516*	41.00 *1.614*	3.00 *0.118*	3.00 *0.118*	1.0 *0.04*	1.0 *0.04*	0.127 *0.289*	0.30	2.0	1.1
K-LM12749/ K-LM12712B	26.00 *1.024*	27.50 *1.083*	– –	– –	46.00 *1.811*	1.20 *0.047*	3.50 *0.138*	1.3 *0.05*	– –	0.120 *0.264*	0.31	2.0	1.1
K-L44643/ K-44610	33.00 *1.299*	32.00 *1.260*	43.50 *1.713*	43.50 *1.713*	47.00 *1.850*	2.00 *0.079*	3.50 *0.138*	1.0 *0.04*	1.0 *0.04*	0.128 *0.282*	0.37	1.6	0.9
K-M84249/ K-M84210	33.00 *1.299*	32.00 *1.260*	46.00 *1.811*	53.00 *2.087*	56.00 *2.205*	3.00 *0.118*	4.50 *0.177*	0.6 *0.02*	1.0 *0.04*	0.327 *0.720*	0.55	1.1	0.6
K-L44649/ K-L44610	33.00 *1.299*	38.00 *1.496*	43.50 *1.713*	45.00 *1.772*	47.00 *1.850*	3.00 *0.118*	3.50 *0.138*	3.0 *0.12*	1.0 *0.04*	0.120 *0.264*	0.37	1.6	0.9
K-L45449/ K-L45410	34.00 *1.339*	40.00 *1.575*	43.50 *1.713*	45.00 *1.772*	47.00 *1.850*	3.00 *0.118*	3.50 *0.138*	3.0 *0.12*	1.0 *0.04*	0.113 *0.249*	0.37	1.6	0.9
JXC25640CB/ JXC25640D	34.50 *1.358*	37.00 *1.457*	–	–	53.00 *2.087*	1.15 *0.045*	1.70 *0.067*	1.6 *0.06*	–	0.240 *0.528*	0.38	1.6	0.9
K-M86649/ K-M86610	38.00 *1.496*	38.00 *1.496*	51.00 *2.008*	56.5 *2.224*	60.00 *2.362*	3.00 *0.118*	4.50 *0.177*	1.0 *0.04*	1.0 *0.04*	0.341 *0.751*	0.55	1.1	0.6
K-LM67048/ K-LM67010	38.00 *1.496*	44.50 *1.752*	51.00 *2.008*	52.00 *2.047*	55.00 *2.165*	3.00 *0.118*	4.00 *0.157*	3.0 *0.12*	1.0 *0.04*	0.180 *0.396*	0.41	1.5	0.8
K-15123/ K-15245	38.00 *1.496*	43.5 *1.713*	54.00 *2.126*	55.00 *2.165*	58.00 *2.283*	4.00 *0.157*	3.50 *0.138*	3.0 *0.12*	1.0 *0.04*	0.248 *0.546*	0.35	1.7	0.9
K-LM48548/ K-LM48510	42.00 *1.654*	47.00 *1.850*	57.00 *2.244*	58.00 *2.283*	61.00 *2.402*	3.00 *0.118*	4.00 *0.157*	3.0 *0.12*	1.0 *0.04*	0.250 *0.551*	0.38	1.6	0.9
PLC 65-E[2]	43.00 *1.693*	45.00 *1.772*	62.00 *2.441*	64.00 *5.520*	68.00 *2.677*	3.00 *0.118*	3.00 *0.118*	5.0 *0.20*	2.0 *0.08*	0.495 *1.090*	0.37	1.6	0.9
K-L68149/ K-L68111	40.00 *1.575*	46.00 *1.811*	52.00 *2.047*	54.00 *2.126*	56.00 *2.205*	3.00 *0.118*	3.50 *0.138*	3.0 *0.12*	1.0 *0.04*	0.176 *0.388*	0.42	1.4	0.8
JL69349/ JL69310	42.50 *1.673*	49.00 *1.929*	56.00 *2.205*	58.00 *2.283*	60.00 *2.362*	3.00 *0.118*	4.00 *0.157*	3.0 *0.12*	2.0 *0.08*	0.201 *0.461*	0.42	1.4	0.8
K-LM29749/ K-LM29710	42.50 *1.673*	46.00 *1.811*	58.00 *2.283*	60.00 *2.362*	62.00 *2.441*	4.00 *0.157*	4.00 *0.157*	2.3 *0.09*	1.3 *0.05*	0.220 *0.484*	0.33	1.8	1.0
K-3386/ K-3320	48.00 *1.890*	47.00 *1.850*	68.00 *2.677*	70.00 *2.756*	75.00 *2.953*	3.00 *0.118*	4.00 *0.157*	0.6 *0.02*	3.0 *0.01*	0.704 *1.559*	0.27	2.2	1.2
K-344A/ K-332	48.00 *1.890*	47.00 *1.850*	68.00 *2.677*	73.00 *2.874*	75.00 *2.953*	3.00 *0.118*	4.00 *0.157*	0.6 *0.02*	1.0 *0.04*	0.514 *1.132*	0.27	2.2	1.2

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

Single Row Tapered Roller Bearings in Inch Dimensions

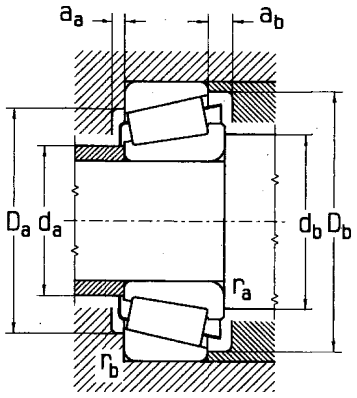
Sizes 1.6137 inch – 5.7500 inch



Dimensions								Basic Load Rating		Limiting Speed for Lubricating by	
d	D	B	C	T	r_{1s} min	r_{2s} min	a	Dynamic C_r	Static C_{or}	Grease	Oil
mm *inch*								kN *lbf*		min^{-1}	
40.987 ***1.6137***	67.975 *2.6762*	18.000 *0.7087*	13.500 *0.5315*	17.501 *0.6890*	(1)	1.5 *0.06*	14.00 *0.551*	47.3 *10,630*	59.6 *13,390*	5,300	7,100
44.450 ***1.7500***	82.931 *3.2650*	25.400 *1.0000*	19.050 *0.7500*	23.813 *0.9375*	3.5 *0.14*	0.8 *0.03*	17.50 *0.689*	59.6 *13,390*	87.4 *19,640*	4,200	5,600
44.450 ***1.7500***	83.058 *3.2700*	25.400 *1.0000*	19.050 *0.7500*	23.813 *0.9375*	3.5 *0.14*	3.3 *0.13*	17.50 *0.689*	59.6 *13,390*	87.4 *19,640*	4,200	5,600
50.800 ***2.0000***	101.600 *4.0000*	36.068 *1.4200*	26.988 *1.0625*	34.925 *1.3750*	0.8 *0.03*	3.3 *0.13*	22.00 *0.866*	123.0 *27,650*	162.0 *36,400*	3,200	4,200
57.150 ***2.2500***	127.000 *5.0000*	44.450 *1.7500*	34.925 *1.3750*	44.450 *1.7500*	3.5 *0.14*	3.3 *0.13*	35.20 *1.386*	228.0 *51,250*	276.0 *62,000*	3,000	4,000
65.000 ***2.5591***	110.000 *4.3307*	28.000 *1.1024*	22.500 *0.8858*	28.001 *1.1024*	3.0 *0.12*	2.5 *0.10*	24.00 *0.945*	133.0 *29,890*	188.0 *42,260*	3,300	4,500
75.000 ***2.9528***	115.000 *4.5276*	25.000 *0.9843*	19.000 *0.7480*	25.000 *0.9843*	3.0 *0.12*	2.5 *0.10*	25.50 *1.004*	104.0 *23,370*	158.0 *35,500*	3,100	4,200
88.900 ***3.5000***	152.400 *6.0000*	39.688 *1.5625*	30.162 *1.1875*	39.688 *1.5625*	6.4 *0.25*	3.3 *0.13*	35.00 *1.378*	299.0 *67,200*	335.0 *75,300*	2,000	3,000
89.974 ***3.5423***	146.975 *5.7864*	40.000 *1.5748*	32.500 *1.2795*	40.00 *1.5748*	7.0 *0.28*	3.5 *0.14*	31.00 *1.220*	250.0 *56,200*	355.0 *79,800*	2,400	3,300
90.000 ***3.5433***	145.000 *5.7087*	34.000 *1.3386*	27.000 *1.0630*	35.000 *1.3780*	6.0 *0.24*	2.5 *0.10*	33.00 *1.299*	276.0 *62,040*	304.0 *68,340*	2,200	3,200
100.000 ***3.9370***	160.000 *6.2922*	40.000 *1.5748*	32.000 *1.2598*	41.000 *1.6142*	3.0 *0.12*	2.5 *0.10*	37.50 *1.476*	233.0 *52,380*	383.0 *86,100*	2,300	3,100
146.050 ***5.7500***	193.675 *7.6250*	28.575 *1.1250*	23.020 *0.9063*	28.575 *1.1250*	4.8 *0.19*	1.5 *0.06*	34.00 *1.339*	188.0 *42,260*	372.0 *83,620*	1,700	2,200

(1) r^{1s} min. = 3.5mm in radial directions and r^{1s} = 4.7mm in axial directions

I



Bearing Designation	Abutment and Fillet Dimensions									Weight	Factors		
	d_a max	d_b min	D_a min	D_a max	D_b min	a_a min	a_b min	r_a max	r_b max	~	e	Y	Y_0
	mm *inch*									kg *lbs*			
K-LM300849/ K-LM300811	45.00 *1.772*	52.00 *2.047*	58.00 *2.283*	61.00 *2.402*	63.00 *2.480*	4.00 *0.157*	4.00 *0.157*	0.6 *0.02*	1.5 *0.06*	0.230 *0.506*	0.35	1.7	1.0
K-25580/ K-25520	53.00 *2.087*	56.50 *2.224*	74.00 *2.913*	77.00 *3.031*	77.00 *3.031*	5.00 *0.197*	4.50 *0.177*	3.0 *0.12*	3.0 *0.12*	0.541 *1.193*	0.33	1.8	1.0
K-25580/ K-25521	53.00 *2.087*	56.50 *2.224*	71.00 *2.795*	74.00 *2.913*	73.00 *2.874*	5.00 *0.197*	3.50 *0.177*	3.0 *0.12*	3.0 *0.12*	0.541 *1.190*	0.33	1.8	1.0
K-529/ K-522	61.00 *2.402*	63.50 *2.500*	87.00 *3.425*	89.50 *3.524*	94.00 *3.701*	6.00 *0.236*	7.50 *0.295*	0.6 *0.02*	3.0 *0.12*	1.220 *2.690*	0.28	2.1	1.2
K-65225/ K-65500	71.00 *2.795*	80.00 *3.150*	104.00 *4.094*	107.00 *4.213*	119.00 *4.685*	10.00 *0.394*	10.00 *0.394*	3.6 *0.14*	9.5 *0.37*	2.680 *5.900*	0.49	1.2	0.7
K-JM511946/ K-JM511910	71.00 *2.795*	77.00 *3.031*	93.00 *3.661*	96.00 *3.780*	101.00 *3.976*	9.50 *0.374*	9.50 *0.374*	3.0 *0.12*	2.5 *0.10*	1.050 *2.310*	0.39	1.5	0.9
JLM714149/ JLM714110	87.00 *3.425*	81.00 *3.189*	104.00 *4.094*	107.00 *4.213*	110.00 *4.331*	6.50 *0.256*	6.50 *0.256*	5.0 *0.20*	2.5 *0.10*	0.955 *2.105*	0.46	1.3	0.7
HM518445/ HM518410	98.00 *3.858*	110.00 *4.331*	135.00 *5.315*	139.00 *5.472*	146.00 *5.748*	7.00 *0.276*	9.5 *0.374*	6.4 *0.25*	3.2 *0.13*	2.880 *6.349*	0.44	1.4	0.7
HM218248/ HM218210	101.00 *3.976*	110.50 *4.350*	130.00 *5.118*	133.50 *5.256*	140.00 *5.512*	7.00 *0.276*	7.50 *0.295*	7.0 *0.28*	3.5 *0.14*	2.590 *5.710*	0.33	1.8	1.0
JM718149/ JM718110	99.00 *3.898*	105.00 *4.134*	131.00 *5.157*	134.00 *5.276*	139.00 *5.472*	8.00 *0.315*	9.50 *0.374*	6.0 *0.24*	2.5 *0.10*	2.150 *4.740*	0.44	1.4	0.7
JM720249/ JM720210	109.00 *4.291*	117.00 *4.606*	143.00 *5.630*	146.50 *5.768*	154.00 *6.063*	7.00 *0.276*	8.00 *0.315*	3.0 *0.12*	2.5 *0.10*	3.120 *6.878*	0.47	1.3	0.7
K-36691/ K-36620	153.00 *6.024*	162.00 *6.378*	176.00 *6.929*	182.00 *7.165*	188.00 *7.402*	12.00 *0.472*	12.50 *0.492*	4.8 *0.19*	1.5 *0.06*	2.220 *4.890*	0.37	1.6	0.9

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