



Shanghai Yinin Imp.,&Exp., Co.,Ltd  
Shanghai Yinin Bearing &Transmission Company  
**Roller Bearing**

**YNN**  
BEARINGS

Shanghai Yinin Imp.,&Exp., Co.,Ltd  
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YNN BEARING CATALOGUE

**YNN**  
BEARINGS

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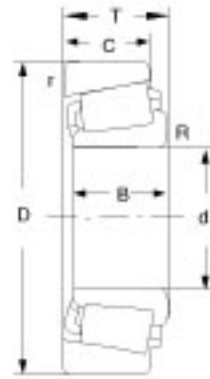
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# TAPERED ROLLER BEARING



**METRIC TAPERED ROLLER BEARING**



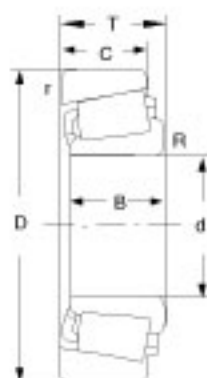
Bearing No.	Boundary dimensions							Basic load rating(kN)		Limiting speed		Mass
	mm							Dynamic	Static	rpm		Kg
	d	D	T	B	C	Rmin	rmin	Cr	Cor	Grease	Oil	~
30202	15	35	11.75	11	10	0.6	0.6	11.9	13.5	9000	13000	0.053
30203	17	40	13.25	12	11	1	1	20.7	22.2	9000	13000	0.096
30204	20	47	15.25	14	12	1	1	28.2	30.9	8000	11000	0.128
30205	25	52	16.25	15	13	1	1	33.7	39.4	7500	10000	0.153
30206	30	62	17.25	16	14	1	1	43.3	50.6	6300	8500	0.232
30207	35	72	18.25	17	15	1.5	1.5	54.2	63.7	5300	7000	0.337
30208	40	80	19.75	18	16	1.5	1.5	63	74.1	4800	6300	0.422
30209	45	85	20.75	19	16	1.5	1.5	67	84	4500	6000	0.476
30210	50	90	21.75	20	17	1.5	1.5	76	97	4300	5600	0.538
30211	55	100	22.75	21	18	2	1.5	90	116	3800	5000	0.715
30212	60	110	23.75	22	19	2	1.5	103	132	3400	4500	0.905
30213	65	120	24.75	23	20	2	1.5	120	154	3000	4000	1.12
30214	70	125	26.25	24	21	2	1.5	132	174	3000	4000	1.26
30215	75	130	27.25	25	22	2	1.5	137	186	2800	3800	1.36
30216	80	140	28.25	26	22	2.5	2	160	213	2400	3400	1.67
30217	85	150	30.5	28	24	2.5	2	180	242	2200	3200	2.08
30218	90	160	32.5	30	26	2.5	2	199	270	2000	3000	2.53
30219	95	170	34.5	32	27	3	2.5	226	310	1900	2800	3.06
30220	100	180	37	34	29	3	2.5	253	351	1900	2800	3.72
30221	105	190	39	36	30	3	2.5	284	400	1800	2600	4.39
30222	110	200	41	38	32	3.5	2	314	445	1700	2400	5.21
30224	120	215	43.5	40	34	3	2.5	335	487	1600	2200	6.19
30226	130	230	43.75	40	34	4	3	364	525	1500	2000	6.94
30228	140	250	45.75	42	36	4	3	407	589	1400	1900	8.75
30230	150	270	49	45	38	4	3	449	651	1300	1800	10.8
30232	160	290	52	48	40	4	3	509	744	1100	1600	12.9
30234	170	310	57	52	43	5	4	616	865	1000	1500	19
30236	180	320	57	52	43	5	4	583	815	1000	1500	20
30238	190	340	60	55	46	3	2.5	721	1000	950	1400	24
30240	200	360	64	58	48	5	4	792	1120	900	1300	25

**METRIC TAPERED ROLLER BEARING**



Bearing No.	Boundary dimensions							Basic load rating(kN)		Limiting speed		Mass
	mm							Dynamic	Static	rpm		Kg
	d	D	T	B	C	Rmin	rmin	Cr	Cor	Grease	Oil	~
30302	15	42	14.25	13	11	1	1	22.9	21.7	9000	13000	0.096
30303	17	47	15.25	14	12	1	1	28.3	27.4	8500	12000	0.13
30304	20	52	16.25	15	13	1.5	1.5	33.2	33.3	8000	11000	0.166
30305	25	62	18.25	17	15	1.5	1.5	47	48.3	6700	9000	0.266
30306	30	72	20.75	19	16	1.5	1.5	59	63.9	5600	7500	0.391
30307	35	80	22.75	21	18	2	1.5	75.4	83.6	5000	6700	0.484
30308	40	90	25.25	23	20	2	1.5	90	108	4500	6000	0.751
30309	45	100	27.25	25	22	2	1.5	108	120	4000	5300	0.985
30310	50	110	29.25	27	23	2.5	2	130	159	3600	4800	1.28
30311	55	120	31.5	29	25	2.5	2	153	190	3200	4300	1.61
30312	60	130	33.5	31	26	3	2.5	170	211	3000	4000	1.95
30313	65	140	36	33	28	3	2.5	195	244	2600	3600	2.44
30314	70	150	38	35	30	3	2.5	187	220	2000	3000	2.99
30315	75	160	40	37	31	3	2.5	250	318	2200	3200	3.58
30316	80	170	42.5	39	33	3	2.5	278	356	2000	3000	4.27
30317	85	180	44.5	41	34	4	3	304	392	1900	2800	4.97
30318	90	190	46.5	43	36	4	3	341	445	1800	2600	5.79
30319	95	200	49.5	45	38	4	3	368	483	1800	2600	6.8
30320	100	215	51.5	47	39	4	3	402	490	1700	2400	8.2
30321	105	225	53.5	49	41	4	3	432	568	1600	2200	9.91
30322	110	240	54.5	50	42	4	3	471	619	1600	2200	11.5
30324	120	260	59.5	55	46	4	3	562	754	1500	2000	13.7
30326	130	280	63.75	58	49	5	4	639	864	1300	1800	17.1
30328	140	300	67.75	62	53	5	4	721	985	1200	1700	21.7
30330	150	320	72	65	55	5	4	825	1060	1100	1600	28.5
30332	160	340	75	68	58	5	4	880	1400	1100	1600	29
30334	170	360	80	72	62	5	4	1020	1340	950	1400	35

**METRIC TAPERED ROLLER BEARING**



Bearing No.	Boundary dimensions							Basic load rating(kN)		Limiting speed		Mass Kg
	mm							Cr	Cor	rpm		
	d	D	T	B	C	Rmin	rmin			Grease	Oil	
31305	25	62	18.25	17	13	1.5	1.5	40.7	46	5600	7500	0.264
31306	30	72	20.75	19	14	1.5	1.5	47.3	50	5000	6700	0.393
31307	35	80	22.75	21	15	2	1.5	61.6	67	4500	6000	0.518
31308	40	90	25.25	23	17	2	1.5	81	96	4000	5300	0.727
31309	45	100	27.25	25	18	2	1.5	91	102	3400	4500	0.947
31310	50	110	29.25	27	19	2.5	2	106	120	3200	4300	1.22
31311	55	120	31.5	29	21	2.5	2	130	158	2800	3800	1.56
31312	60	130	33.5	31	22	3	2.5	145	176	2600	3600	1.91
31313	65	140	36	33	23	3	2.5	165	202	2200	3200	2.39
31314	70	150	38	35	25	3	2.5	218	274	2400	3400	2.95
31315	75	160	40	37	26	3	2.5	209	245	1900	2800	3.39
31316	80	170	42.5	39	27	3	2.5	224	265	1900	2800	4.05
31317	85	180	44.5	41	28	4	3	242	285	1800	2600	4.6
31318	90	190	46.5	43	30	4	3	264	315	1700	2400	5.9
31319	95	200	49.5	45	32	4	3	292	355	1700	2400	6.95
31320	100	215	56.5	51	35	4	3	374	465	1600	2200	8.6
31321	105	225	58	53	36	4	3	402	500	1500	2000	9.65
31322	110	240	63	57	38	4	3	457	585	1400	1900	12
31324	120	260	68	62	42	4	3	539	695	1200	1700	15.5
31326	130	280	72	66	44	5	4	605	780	1100	1600	18.5
31328	140	300	77	70	47	5	4	693	900	1000	1500	24.5
31330	150	320	82	75	50	5	4	781	1020	950	1400	29.5

**METRIC TAPERED ROLLER BEARING**

Bearing No.	Boundary dimensions							Basic load rating(kN)		Limiting speed		Mass Kg
	mm							Cr	Cor	rpm		
	d	D	T	B	C	Rmin	rmin			Grease	Oil	
32004	20	42	15	15	12	0.6	0.6	27.3	31.5	9700	13000	0.96
32005	25	47	15	15	11.5	0.6	0.6	27	32.5	8000	11000	0.115
32006	30	55	17	17	13	1	1	35.8	44	6700	9000	0.172
32007	35	62	18	18	14	1	1	42.9	54	6000	8000	0.227
32008	40	68	19	19	14.5	1	1	52.8	71	5300	7000	0.77
32009	45	75	20	20	15.5	1	1	58	80	4800	6300	0.329
32010	50	80	20	20	15.5	1	1	60	88	4500	6000	0.365
32011	55	90	23	23	17.5	1.5	1.5	80	116	4000	5300	0.55
32012	60	95	23	23	17.5	1.5	1.5	82	122	3800	5000	0.586
32013	65	100	23	23	17.5	1.5	1.5	84	127	3400	4500	0.627
32014	70	110	25	25	19	1.5	1.5	101	153	3200	4300	0.842
32015	75	115	25	25	19	1.5	1.5	106	163	3000	4000	0.887
32016	80	125	29	29	22	1.5	1.5	138	216	2600	3600	1.27
32017	85	130	29	29	22	1.5	1.5	140	224	2400	3400	1.33
32018	90	140	32	32	24	2	1.5	168	270	2200	3200	1.73
32019	95	145	32	32	24	2	1.5	168	270	2200	3200	1.8
32020	100	150	32	32	24	2	1.5	172	280	2000	3000	1.87
32021	105	160	35	35	26	2.5	2	201	335	1900	2800	2.38
32022	110	170	38	38	29	2.5	2	233	390	1800	2600	3.05
32024	120	180	38	38	29	2.5	2	242	415	1800	2600	3.2
32026	130	200	45	45	34	2.5	2	314	540	1600	2200	4.86
32028	140	210	45	45	34	2.5	2	330	585	1600	2200	5.19
32030	150	225	48	48	36	3	2.5	369	655	1500	2000	6.33
32032	160	240	51	51	38	3	2.5	429	780	1300	1800	7.53
32034	170	260	57	57	43	3	2.5	512	915	1100	1600	10.6
32036	180	280	64	64	48	3	2.5	644	1160	1100	1600	14.5
32038	190	290	64	64	48	3	2.5	660	1200	1000	1500	15
32040	200	310	70	70	53	3	2.5	748	1370	950	1400	19.5
32044	220	340	76	76	57	4	3	897	1660	900	1300	25.5
32048	240	360	76	76	57	4	3	935	1800	850	1200	27.5

**METRIC TAPERED ROLLER BEARING**

Bearing No.	Boundary dimensions							Basic load rating(kN)		Limiting speed		Mass
	mm							Dynamic	Static	rpm		Kg
	d	D	T	B	C	Rmin	rmin	Cr	Cor	Grease	Oil	≈
32204	20	47	19.25	18	15	1	1	36.5	39.5	8000	11000	0.161
32205	25	52	19.25	18	16	1	1	42	47	7500	10000	0.184
32206	30	62	21.25	20	17	1	1	51.8	63.9	6300	8500	0.29
32207	35	72	24.25	23	19	1.5	1.5	70.6	89.7	5300	7000	0.45
32208	40	80	24.75	23	19	1.5	1.5	77	97	4800	6300	0.535
32209	45	85	24.75	23	19	1.5	1.5	80	105	4500	6000	0.584
32210	50	90	24.75	23	19	1.5	1.5	76	97	4300	5600	0.646
32211	55	100	26.76	25	21	2	1.5	108	144	3800	5000	0.86
32212	60	110	29.75	28	24	2	1.5	132	181	3400	4500	1.16
32213	65	120	32.75	31	27	2	1.5	160	224	3000	4000	1.54
32214	70	125	33.25	31	27	2	1.5	168	238	2800	3800	1.63
32215	75	130	33.25	31	27	2	1.5	169	244	2600	3600	1.75
32216	80	140	35.25	33	28	2.5	2	197	280	2400	3400	2.13
32217	85	150	38.5	36	30	2.5	2	226	325	2200	3200	2.69
32218	90	160	42.5	40	34	2.5	2	269	396	2000	3000	3.43
32219	95	170	45.5	43	37	3	2.5	301	450	1900	2800	4.24
32220	100	180	49	46	39	3	2.5	340	513	1800	2600	3.72
32221	105	190	53	50	43	3	2.5	380	581	1800	2600	6.31
32222	110	200	56	53	46	3.5	2	430	668	1700	2400	7.43
32224	120	215	61.5	58	50	3	2.5	475	764	1600	2200	9.26
32226	130	230	67.75	64	54	4	3	549	895	1500	2000	11.5
32228	140	250	71.75	68	58	4	3	640	1060	1400	1900	14.4
32230	150	270	77	73	60	4	3	718	1190	1200	1700	18.2
32232	160	290	84	80	67	4	3	852	1440	1000	1400	21.1
32234	170	310	91	86	71	5	4	1010	1630	1000	1500	28.5
32236	180	320	91	86	71	5	4	998	1720	950	1400	29.8
32238	190	340	97	92	75	5	4	1110	1920	900	1300	36
32240	200	360	104	98	82	5	4	1210	2000	900	1300	42.7
32244	220	400	115	108	90	5	4	1530	2560	800	1100	58.3

**METRIC TAPERED ROLLER BEARING**

Bearing No.	Boundary dimensions							Basic load rating(kN)		Limiting speed		Mass
	mm							Dynamic	Static	rpm		Kg
	d	D	T	B	C	Rmin	rmin	Cr	Cor	Grease	Oil	≈
32303	17	47	20.25	19	16	1	1	35.4	36.6	8000	11000	0.174
32304	20	52	22.25	21	18	1.5	1.5	42.7	46.4	7500	10000	0.231
32305	25	62	25.25	24	20	1.5	1.5	61.7	68.9	6000	8000	0.367
32306	30	72	28.75	27	23	1.5	1.5	81.7	97.6	5300	7000	0.56
32307	35	80	32.75	31	25	2	1.5	99.1	119	4800	6300	0.77
32308	40	90	35.25	33	27	2	1.5	115	149	4000	5300	1.05
32309	45	100	38.25	36	30	2	1.5	145	191	3600	4800	1.4
32310	50	110	42.25	40	33	2.5	2	177	239	3200	4300	1.89
32311	55	120	45.5	43	35	2.5	2	203	274	3000	4000	2.37
32312	60	130	48.5	46	37	3	2.5	226	306	2600	3600	2.9
32313	65	140	51	48	39	3	2.5	259	353	2400	3400	3.51
32314	70	150	54	51	42	3	2.5	298	413	2000	3000	4.35
32315	75	160	58	55	45	3	2.5	346	488	2000	3000	5.34
32316	80	170	61.5	58	48	3	2.5	387	549	1900	2800	6.38
32317	85	180	63.5	60	49	4	3	421	599	1800	2600	7.3
32318	90	190	67.5	64	53	4	3	477	690	1700	2400	8.78
32319	95	200	71.5	67	55	4	3	515	745	1700	2400	10.7
32320	100	215	77.5	73	60	4	3	572	780	1600	2200	3
32321	105	225	81.5	77	63	4	3	646	955	1500	2000	14.5
32322	110	240	84.5	80	65	4	3	722	1070	1400	1900	17.8
32324	120	260	90.5	86	69	4	3	824	1240	1300	1800	21.7
32334	170	360	128	120	100	3.7	1.3	1300	1760	850	1100	59.5

Bearing No.	Boundary dimensions							Basic load rating(kN)		Limiting speed		Mass
	mm							Dynamic	Static	rpm		Kg
	d	D	T	B	C	Rmin	rmin	Cr	Cor	Grease	Oil	≈
33005	25	47	17	17	14	0.6	0.6	27.5	37	8000	10700	0.131
33006	30	55	20	20	16	1	1	39.5	59.5	6700	9100	0.208
33007	35	62	21	21	17	1	1	51.3	68	6200	8200	0.267
33008	40	68	22	22	18	1	1	60.4	84.6	5500	7400	0.322
33009	45	75	24	24	19	1	1	69.6	101	5000	6700	0.414
33010	50	80	24	24	19	1	1	73	110	4600	6100	0.452
33011	55	90	27	27	21	1.5	1.5	96.5	145	4100	5400	0.672
33012	60	95	27	27	21	1.5	1.5	101	162	3900	5200	0.713
33013	65	100	27	27	21	1.5	1.5	103	169	3600	4800	0.758
33014	70	110	31	31	25.5	1.5	1.5	134	208	3300	4400	1.11
33015	75	115	31	31	25.5	1.5	1.5	141	225	3200	4200	1.18
33019	95	145	39	39	32.5	2	1.5	226	382	2500	3300	2.3
33022	110	170	47	47	37	2.5	2	287	502	2100	2800	3.775

**METRIC TAPERED ROLLER BEARING**

Bearing No.	Boundary dimensions							Basic load rating(kN)		Limiting speed		Mass Kg
	mm							Dynamic	Static	rpm		
	d	D	T	B	C	Rmin	rmin	Cr	Cor	Grease	Oil	
33205	25	52	22	22	18	1	1	47.3	56	6700	9000	0.23
33206	30	62	25	25	19.5	1	1	64.4	76.5	5600	7500	0.37
33207	35	72	28	28	22	1.5	1.5	84.2	106	4800	6300	0.522
33208	40	80	32	32	25	1.5	1.5	105	132	4300	5600	0.535
33209	45	85	32	32	24.5	1.5	1.5	108	143	4000	5300	0.82
33210	50	90	32	32	24.5	1.5	1.5	114	160	3800	5000	0.9
33211	55	100	35	35	27	2	1.5	138	190	3400	4500	1.2
33212	60	110	38	38	29	2	1.5	168	250	3000	4000	1.6
33213	65	120	41	41	32	2	1.5	194	270	2800	3800	2.05
33214	70	125	41	41	32	2	1.5	201	285	2600	3600	2.1
33215	75	130	41	41	31	2	1.5	209	300	2400	3400	2.25
33216	80	140	46	46	35	2.5	2	251	375	2200	3200	2.9
33217	85	150	49	49	37	2.5	2	286	430	2000	3000	3.7
33220	100	180	63	63	48	3	2.5	429	655	1700	2400	6.78

**INCH TAPERED ROLLER BEARING**

Bearing No.		Boundary dimensions							Basic load rating(kN)		Limiting speed		Mass Kg
		mm							Dynamic	Static	rpm		
		Cone	Cup	d	D	T	B	C	R	r	Cr	Cor	Grease
11590	11520	15.875	42.862	14.288	14.288	9.525	1.5	1.5	17.6	17.6	8500	12000	0.1
LM11749	LM11710	17.462	39.878	13.843	14.605	10.668	1.3	1.3	21.2	20.8	9000	13000	0.081
LM11949	LM11910	19.050	45.237	15.494	16.637	12.065	1.3	1.3	27.5	27.5	8500	12000	0.12
09067	09195	19.050	49.225	18.034	19.05	14.288	1.3	1.3	39.1	40	8000	11000	0.18
09074	09196	19.050	49.225	23.02	21.539	17.462	1.5	1.5	39.1	40	8000	11000	0.21
A6075	A6157	19.050	39.992	12.014	11.153	9.525	1.0	1.3	14.9	15.7	9500	13000	0.066
09067	09196	19.050	49.225	21.209	19.050	17.462	1.3	1.5	39.1	40	8000	11000	0.2
09074	09195	19.050	49.225	19.845	21.539	14.288	1.5	1.3	39.1	40	4300	8000	0.19
09074	09194	19.050	49.225	23.020	21.539	17.462	1.5	3.5	37.5	37.0	8500	11000	0.21
12580	12520	20.638	49.225	19.845	19.845	15.875	1.5	1.5	37.5	39.0	8200	11000	
M12649	M12610	21.430	50.005	17.526	18.288	13.970	1.3	1.3	36.9	38	8000	11000	0.17
LM12749	LM12710	21.986	45.237	15.494	16.637	12.065	1.3	1.3	27.5	31	8000	11000	0.12
LM12749	LM12711	21.986	45.974	15.494	16.637	12.065	1.3	1.3	27.5	31	8000	11000	0.12
M12648	M12610	22.225	50.005	17.526	18.288	13.970	1.3	1.3	39.1	40.7	8500	11000	0.17
1280	1220	22.225	57.150	22.225	22.225	17.462	0.8	1.6	52.6	55.7	7600	10000	
1755	1729	22.225	56.896	19.368	19.837	15.875	1.3	0.8	46	43.1	7600	10000	
07093	07196	23.812	50.005	13.495	14.260	9.525	1.5	1.0	26.0	27.9	7600	10000	
07097	07196	25.000	50.005	13.495	14.260	9.525	1.5	1.0	26.7	28.8	7900	11000	0.146
07100	07204	25.400	51.994	15.011	14.260	12.700	1.5	1.3	26.7	28.8	7900	11000	0.145
1780	1729	25.400	56.896	19.368	19.837	15.875	0.8	1.3	42.5	46.5	7200	9600	
L44643	L44610	25.400	50.292	14.224	14.732	10.668	1.3	1.3	26	30	7500	10000	0.13
M84548	M84510	25.400	57.150	19.431	19.431	14.732	1.5	1.5	39.6	45	6700	9000	0.24
15101	15243	25.400	61.912	19.050	20.638	14.288	0.8	2.0	44.6	50.7	6400	8600	0.28
07100	07196	25.400	50.005	13.495	14.260	9.525	1.5	1.0	26.7	28.8	7900	11000	0.12
15101	15245	25.400	62.000	19.050	20.638	14.288	0.8	1.3	48.4	57	6000	8000	0.31
15101	15250X	25.400	63.500	20.638	20.638	15.875	0.8	1.5	48.4	57	6000	8000	0.34
L44649	L44610	26.988	50.292	14.224	14.732	10.668	3.5	1.3	26	30	7500	10000	0.11
1988	1922	28.575	57.150	19.845	19.355	15.875	3.5	1.5	47.3	55	6700	9000	0.22
02474	02420	28.575	68.262	22.225	22.225	17.462	0.8	1.5	58.3	69.5	5600	7500	0.42
02872	02820	28.575	73.025	22.225	22.225	17.462	0.8	3.2	55.0	65.7	5500	7400	
15112	15245	28.575	62.000	19.050	20.638	14.288	3.5	1.3	48.4	57	6000	8000	0.28
L45449	L45410	29.000	50.292	14.224	14.732	10.668	3.5	1.3	26	32.5	7000	9500	0.11
15116	15245	30.112	62.000	19.050	20.638	14.288	0.1	1.2	44.6	50.7	6400	8600	
M86649	M86610	30.162	64.292	21.433	21.433	16.670	1.5	1.5	49.5	61	6000	8000	0.33
M88043	M88010	30.162	68.262	22.225	22.225	17.462	2.3	1.5	55	69.5	5600	7500	0.41
02475	02420	31.750	68.262	22.225	22.225	17.462	3.6	1.6	51.0	61.1	6000	8000	
14125A	14276	31.750	69.012	19.845	19.583	15.875	3.5	1.3	44.5	55.0	5500	7500	0.35
LM67048	LM67010	31.750	59.131	15.875	16.764	11.811	3.6	1.3	34.7	41.5	6300	8500	0.18

**INCH TAPERED ROLLER BEARING**

Bearing No.		Boundary dimensions							Basic load rating(kN)		Limiting speed		Mass Kg
		mm							Dynamic	Static	rpm		
Cone	Cup	d	D	T	B	C	R	r	Cr	Cor	Grease	Oil	~
2580	2520	31.750	66.421	25.400	25.357	20.638	0.8	3.3	69.3	81.5	5600	7500	0.4
2580	2523	31.750	69.850	23.812	25.357	19.050	0.8	1.3	69.0	81.5	5700	7600	0.45
14125A	14276	31.750	69.012	19.845	19.583	15.875	3.5	1.3	48.5	58.0	5600	7400	0.35
15123	15245	31.750	62.000	18.161	19.050	14.288	4	1.3	48.4	57	6000	8000	0.24
15126	15245	31.750	62.000	19.050	20.638	14.288	0.8	1.2	44.6	50.7	6400	8600	
HM88542	HM88510	31.750	73.025	29.370	27.783	23.020	1.3	3.3	74.3	101.0	5600	7500	0.62
M88048	M88010	33.338	68.262	22.225	22.225	17.462	0.8	1.5	55	69.5	5600	7500	0.38
14130	14276	33.338	69.012	19.845	19.583	15.875	3.5	1.3	53.9	67	5600	7500	0.35
14136 A	14276	34.925	69.012	26.982	26.721	15.875	0.8	1.3	53.9	67	5600	7500	0.33
25877	25821	34.925	73.025	23.812	24.608	19.050	1.5	0.8	72.1	88	5300	7000	0.47
LM48548	LM48510	34.925	65.088	18.034	18.288	13.970	3.6	1.3	47.3	57	5600	7500	0.25
HM88649	HM88610	34.925	72.233	25.400	25.400	19.842	2.3	2.3	67.1	90	5000	6700	0.5
HM89446	HM89410	34.925	76.2	29.37	28.575	23.02	3.5	3.3	78.1	106	4800	6300	0.66
L68149	L68110	34.988	59.131	15.875	16.764	11.938	3.5	1.3	33	44	6000	8000	0.17
L68149	L68111	34.988	59.974	15.875	16.764	11.938	3.5	1.3	33	44	6000	8000	0.17
LM78349A	LM78310A	34.988	61.973	16.700	17.000	13.600	1.5	1.5	37.0	48.0	5900	7900	0.21
HM88648	HM88610	35.717	72.233	25.400	25.400	19.842	3.6	2.4	66.9	87.4	5700	6900	
25880	25821	36.487	73.025	23.812	24.608	19.05	1.5	0.8	72.1	88	5300	7000	0.46
25880	25820	36.487	73.025	23.812	24.608	19.05	1.5	0.8	72.1	88	5300	7000	0.45
2794	2720	36.487	76.2	23.812	25.654	19.05	3.5	3.3	74.8	93	5000	6700	0.5
HM89448	HM89410	36.512	76.200	29.370	28.575	23.02	0.8	3.3	78.1	106	4800	6300	0.64
HM89449	HM89410	36.512	76.200	29.370	28.575	23.02	3.5	3.3	78.1	106	4800	6300	0.64
JL69349	JL69310	38.000	63.000	17.000	17.000	13.500	sp	1.3	43.5	58.2	6000	8000	0.2
LM29748	LM29710	38.100	65.088	18.034	18.288	13.97	sp	1.3	42.9	56.5	5800	7800	0.24
LM29749	LM29710	38.100	65.088	18.034	18.288	13.97	2.3	1.3	42.9	57.0	5600	7500	0.24
LM29749	LM29711	38.100	65.088	19.812	18.288	15.748	2.3	1.3	42.9	57	5600	7500	0.25
3490	3420	38.100	79.375	29.370	29.771	23.812	3.5	3.3	91.3	110	5000	6700	0.67
418	414	38.100	88.5	26.988	29.083	22.225	3.5	1.5	101	114	4800	6300	0.83
2788	2720	38.100	76.200	23.812	25.654	19.050	3.5	3.3	74.8	93	5000	6700	0.5
16150	16282	38.100	72	19.000	20.638	14.237	3.5	1.5	49.5	60	5300	7000	0.33
HM801346	HM801310	38.1	82.55	29.37	28.575	23.02	0.8	3.3	85.8	118	4500	6000	0.78
25572	25520	38.100	82.931	23.812	25.400	19.050	0.8	0.8	77.2	100.0	4800	6300	0.64
LM300849	LM300811	40.988	67.975	17.500	18.000	13.500	3.6	1.5	44	58.5	5300	7000	0.24
LM501349	LM501310	41.275	73.431	19.558	19.812	14.732	3.5	0.8	55	69.5	4800	6300	0.33
LM501349	LM501314	41.275	73.431	21.430	19.812	16.604	3.5	0.8	55	69.5	4800	6300	0.35
LM501349	LM501311	41.275	73.431	23.012	19.812	18.186	3.5	2.3	55	69.5	4800	6300	0.37
M802048	M802011	41.275	82.550	26.543	25.654	20.193	3.5	3.3	73.7	91.5	4500	6000	0.62
18590	18520	41.275	73.025	16.667	17.462	12.700	3.5	1.5	46.8	56	5000	6700	0.28

**INCH TAPERED ROLLER BEARING**

Bearing No.		Boundary dimensions							Basic load rating(kN)		Limiting speed		Mass Kg
		mm							Dynamic	Static	rpm		
Cone	Cup	d	D	T	B	C	R	r	Cr	Cor	Grease	Oil	~
11162	11300	41.275	76.200	18.009	17.384	14.288	1.5	1.5	45.7	56	5000	6700	0.34
24780	24720	41.275	76.200	22.225	23.020	17.462	3.5	0.8	68.2	86.5	5000	6700	0.43
HM803146	HM803110	41.275	88.9	30.162	29.37	23.02	3.5	3.3	95.2	127	4300	5600	0.9
526	522	41.275	101.6	34.925	36.068	26.988	3.5	3.3	151	190	3800	5000	1.45
3579	3525	42.862	87.312	30.162	30.886	23.812	3.5	3.3	102	132	4500	6000	0.8
25577	25520	42.875	82.931	23.812	25.400	19.050	3.5	0.8	80.9	106	4500	6000	0.57
25577	25523	42.875	82.931	26.988	25.4	22.225	3.5	2.3	80.9	106	4500	6000	0.61
25577	25522	42.875	83.058	23.876	25.4	19.114	3.5	2	80.9	106	4500	6000	0.57
527	522	44.450	101.600	34.925	36.068	26.988	3.5	3.3	151	190	3800	5000	1.35
535	532 A	44.450	111.125	38.100	36.957	30.162	3.5	3.3	151	190	3600	4800	1.9
25580	25520	44.450	82.931	23.812	25.400	19.050	3.5	0.8	80.9	106	4500	6000	0.57
25580	25523	44.45	82.931	26.988	25.4	22.225	3.5	2.3	80.9	106	4500	6000	0.61
25580	25522	44.45	83.058	23.876	25.4	19.114	3.5	2	80.9	106	4500	6000	0.57
HM803149	HM803110	44.45	88.9	30.162	29.37	23.02	3.5	3.3	95.2	127	4300	5600	0.85
17887	17831	45.230	79.985	19.842	20.638	15.080	2.0	1.3	62.0	78.5	4500	6000	0.41
LM603049	LM603011	45.242	77.788	19.842	19.842	15.080	3.5	0.8	53.9	69.5	4800	6300	0.37
LM603049	LM603014	45.242	79.974	19.842	19.842	15.000	3.5	0.8	57.1	73.5	4900	6500	
LM603049	LM603012	45.242	77.788	21.430	19.842	16.667	3.5	0.8	57.1	73.5	4900	6500	0.38
LM102949	LM102910	45.242	73.431	19.558	19.812	15.748	3.5	0.8	55.6	78.1	5100	6700	0.3
25590	25520	45.618	82.931	23.812	25.400	19.050	3.5	0.8	80.9	106	4500	6000	0.55
25590	25523	45.618	82.931	26.988	25.400	22.225	3.5	2.3	80.9	106	4500	6000	0.59
LM503349	LM503310	45.987	74.976	18.000	18.000	14.000	2.3	1.5	50.1	71	4800	6300	0.31
M804049	M804010	47.625	88.900	25.400	25.400	19.050	3.5	3.3	87.1	112.0	4400	5900	
386 A	382 A	47.625	96.838	21.000	21.946	15.875	0.8	0.8	80.9	102	3800	5500	0.73
JLM104948	JLM104910	50.000	82.000	21.501	21.501	17.000	3.0	0.5	71.7	97.9	4500	6000	0.42
LM104949	LM104911	50.800	82.550	21.590	22.225	16.51	3.5	1.3	61.2	84.3	4500	6000	0.42
LM104949	LM104912	50.800	82.931	21.590	22.225	16.510	3.5	1.3	69.5	94.0	4300	5700	
368A	362A	50.800	88.900	20.638	22.225	16.513	3.5	1.3	76.5	91.5	4300	5600	0.5
368A	362X	50.800	90	25	22.225	20	3.5	2	76.5	91.5	4300	5600	0.58
529	522	50.800	101.600	34.925	36.068	26.988	0.8	3.2	131.0	159.0	4000	5300	
529X	522	50.800	101.600	34.925	36.068	26.988	3.5	3.3	151	190	3800	5000	1.25
3780	3720	50.800	93.264	30.162	30.302	23.812	3.5	3.3	110	146	4000	5300	0.87
28580	28521	50.800	92.075	24.608	25.400	19.845	3.5	0.8	85.8	118	4000	5300	0.72
368A	363	50.800	90.000	20.000	22.225	20.000	3.5	0.8	76.5	90.5	4100	5500	
28584	28521	52.388	92.075	24.608	25.400	19.845	3.5	0.8	84.8	119.0	4200	5600	0.67
539	532X	53.975	107.950	36.512	36.957	28.575	3.5	3.3	151	190	3600	4800	1.5
JLM506849	JLM506810	55.000	90.000	23.000	23.000	18.500	1.6	0.5	81.4	115.0	4200	5500	
39581	39520	57.150	112.712	30.162	30.162	23.812	8	3.3	142	204	3200	4300	1.4

**INCH TAPERED ROLLER BEARING**

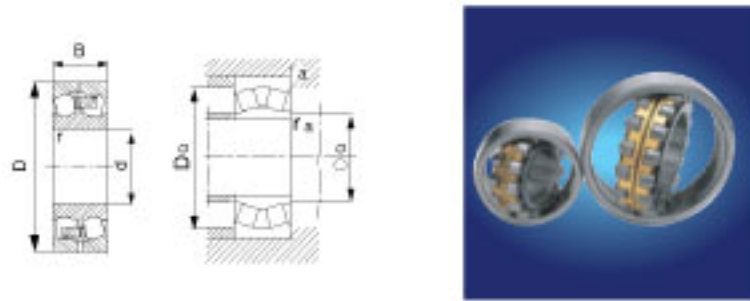
Bearing No.		Boundary dimensions							Basic load rating(kN)		Limiting speed		Mass Kg
		mm							Dynamic	Static	rpm		
Cone	Cup	d	D	T	B	C	R	r	Cr	Cor	Grease	Oil	~
387	382A	57.150	96.838	21.000	21.946	15.875	2.3	0.8	0.9	102	3800	5000	0.59
387A	382A	57.150	96.838	21.000	21.946	15.875	3.5	0.8	80.9	102	3800	5000	0.59
387AS	382A	57.150	96.838	21.000	21.946	15.875	5	0.8	80.9	102	3800	5000	0.58
387	382S	57.150	96.838	21.000	21.946	15.875	2.3	2.3	80.9	102	3800	5000	0.59
387A	382S	57.150	96.838	21.000	21.946	15.875	3.5	2.3	80.9	102	3800	5000	0.59
387AS	382S	57.150	96.838	21.000	21.946	15.875	5	2.3	80.9	102	3800	5000	0.58
462	453X	57.150	104.775	30.162	29.317	24.605	2.3	3.3	109.0	144.0	3700	4900	1.08
28985	28920	60.325	101.600	25.400	25.400	19.845	3.5	3.3	85.8	125	3600	4800	0.81
28985	28921	60.325	100.000	25.400	25.400	19.845	3.5	3.3	85.8	125	3600	4800	0.77
395	394A	63.500	110.000	22.000	21.996	18.824	3.5	1.3	88	118	3200	4300	0.84
29585	29520	63.5	107.95	25.4	25.4	19.05	3.5	3.3	89.7	137	3200	4300	0.9
559	552A	63.500	123.825	38.100	36.678	30.162	3.5	3.3	172	240	3000	4000	2
39585	39520	63.500	112.712	30.162	30.162	23.812	3.5	3.3	142.0	204	3200	4300	1.25
395S	394A	66.675	110.000	22.000	21.996	18.824	3.5	1.3	88	118	3200	4300	0.79
HM212049	HM212011	66.675	122.238	38.100	38.354	29.718	3.5	3.5	191.0	249.0	3200	4300	1.85
3984	3920	66.675	112.712	30.162	30.048	23.812	3.5	3.3	123	183	3200	4300	1.15
39590	39520	66.675	112.712	30.162	30.162	23.812	3.5	3.3	142	204	3200	4300	1.2
399A	394A	68.262	110.000	22.000	21.996	18.824	2.3	1.3	88	118	3200	4300	0.76
482	472	69.850	120.000	29.794	29.007	24.237	3.5	2.0	132	186	3000	4000	1.35
566	563	69.850	127.000	36.512	36.17	28.575	3.5	3.3	176	255	2800	3800	1.85
484	472	70.000	120.000	29.794	29.007	24.237	2.0	2.0	132	186	3000	4000	1.3
567A	563	71.438	127.000	36.512	36.170	28.575	3.5	3.3	156.0	226.0	3000	4000	
29685	29620	73.025	112.712	25.400	25.400	19.050	3.5	3.3	99	156	3000	4000	0.89
567	563	73.025	127.000	36.512	36.170	28.575	3.5	3.3	176	255	2800	3800	1.85
575	572	76.200	139.992	36.512	36.098	28.575	3.5	3.3	187	280	2400	3400	2.45
581	572	80.962	139.992	36.512	36.098	28.575	3.5	3.3	175.0	262.0	2700	3600	
740	742	80.962	150.098	44.450	46.672	36.512	5.2	3.2	264.0	368.0	2500	3400	
580	572	82.550	139.992	36.512	36.098	28.575	3.5	3.3	187	280	2400	3400	2.2
663	653	82.550	146.050	41.275	41.275	31.750	3.5	3.3	220	320	2200	3200	2.8
27690	27620	83.345	125.412	25.400	25.400	19.845	3.5	1.5	112	186	2600	3600	1.05
498	493	84.138	136.525	30.162	29.769	22.225	3.5	3.3	145	220	2400	3400	1.6
749	742	85.026	150.089	44.450	46.672	36.512	3.5	3.3	286	405	2200	3200	3.3
HM518445	HM518410	88.900	152.400	39.688	39.688	30.162	6.4	3.3	242	355	2000	3000	2.85
HM218248	HM218210	89.974	146.975	40.000	40.000	32.500	7	3.5	229	355	2200	3200	2.5
42381	42584	96.838	148.430	28.575	28.971	21.433	3.5	3.0	130	196	2200	3200	1.65
L521949	L521910	107.950	146.050	21.432	21.432	16.670	1.6	1.6	86.4	167.0	2300	3100	

**SPHERICAL ROLLER BEARINGS**





**SPHERICAL ROLLER BEARINGS**



Boundary dimensions(mm)				load ratings(KN)		Bearing No.		Limiting speeds (r/min)		Mounnting dimensions (mm)			Mass (kg)
d	D	B	rsm	Cr	Cor	Cylindrical Bore	Tapered Bore	Grease	Oil	da(min)	Da(max)	ra(max)	
20	52	15	1.1	31.7	32.1	21304CA	21304CAK	6000	7500	27	45	1	0.175
	52	15	1.1	35.8	35.2	21304CTN1	21304KCTN1	6000	7500	27	45	1	0.161
25	52	18	1	40	42	22205CC	22205CCK	8000	10000	30	46	1	0.177
	52	18	1	40	42	22205CA	22205CAK	8000	10000	30	46	1	0.177
52	52	18	1	42.2	45	22205CTN1	22205KCTN1	8000	10000	30	46	1	0.178
	62	17	1.1	42.7	45.5	21305CA	21305CAK	5300	6700	32	55	1	0.277
62	62	17	1.1	45.5	45.8	21305CTN1	21305KCTN1	5300	6700	32	55	1	0.258
	30	62	20	1	34.5	39.3	22206MB	22206MBK	5300	6700	36	56	1
62		20	1	53.4	58.5	22206CA	22206CAK	6300	8000	36	56	1	0.3
62	62	20	1	53.4	58.5	22206CC	22206CCK	6700	8500	36	56	1	0.283
	62	20	1	58.5	61.3	22206CTN1	22206KCTN1	6700	8500	36	56	1	0.271
72	72	19	1.1	57.5	63.9	21306CA	21306CAK	4500	6000	37	65	1	0.412
	72	19	1.1	63.8	65.4	21306CTN1	21306KCTN1	4500	6000	37	65	1	0.391
35	72	23	1.1	46.6	61.3	22207MB	22207MBK	4800	6000	42	65	1	0.43
	72	23	1.1	68.5	78.8	22207CA	22207CAK	5300	6700	42	65	1	0.45
72	72	23	1.1	70.5	81.4	22207CC	22207CCK	5600	7000	42	65	1	0.437
	72	23	1.1	78.5	87	22207CTN1	22207KCTN1	5600	7000	42	65	1	0.428
80	80	21	1.5	65.4	75.4	21307CA	21307CAK	4000	5300	44	71	1.5	0.542
	80	21	1.5	74.4	77.7	21307CTN1	21307KCTN1	4000	5300	44	71	1.5	0.507
40	80	23	1.1	51.3	70.6	22208MB	22208MBK	4500	5600	47	73	1	0.55
	80	23	1.1	80.9	93.5	22208CA	22208CAK	5000	6000	47	73	1	0.54
80	80	23	1.1	80.9	93.5	22208CC	22208CCK	5000	6300	47	73	1	0.524
	80	23	1.1	95.3	103	22208CTN1	22208KCTN1	5000	6300	47	73	1	0.524
90	90	23	1.5	88.8	99	21308CA	21308CAK	3600	4500	49	81	1.5	0.75
	90	23	1.5	88.8	99	21308CC	21308CCK	3600	4500	49	81	1.5	0.743
90	90	23	1.5	93.9	102	21308CTN1	21308KCTN1	3600	4500	49	81	1.5	0.717
	90	33	1.5	75.7	93.2	22308MB	22308MBK	4000	5000	49	81	1.5	1.03
90	90	33	1.5	123.6	142.1	22308CA	22308CAK	4300	5300	49	81	1.5	1
	90	33	1.5	123.6	142.1	22308CC	22308CCK	4500	6000	49	81	1.5	1.02
90	33	1.5	133.9	152.4	22308CTN1	22308KCTN1	4500	6000	48	81	1.5	1.02	

**SPHERICAL ROLLER BEARINGS**

Boundary dimensions(mm)				load ratings(KN)		Bearing No.		Limiting speeds (r/min)		Mounnting dimensions (mm)			Mass (kg)
d	D	B	rsm	Cr	Cor	Cylindrical Bore	Tapered Bore	Grease	Oil	da(min)	Da(max)	ra(max)	
45	85	23	1.1	53.8	75.4	22209MB	22209MBK	4000	5000	52	78	1	0.59
	85	23	1.1	84.5	100.4	22209CA	22209CAK	4500	5600	52	78	1	0.58
85	85	23	1.1	82.9	98	22209CC	22209CCK	4500	6000	52	78	1	0.571
	85	23	1.1	97.1	105.1	22209CTN1	22209KCTN1	4500	6000	52	78	1	0.555
100	100	25	1.5	105.7	118.4	21309CA	21309CAK	3200	4000	54	91	1.5	1.02
	100	25	1.5	105.7	118.4	21309CC	21309CCK	3200	4000	54	91	1.5	1
100	100	25	1.5	111.2	123.6	21309CTN1	21309KCTN1	3200	4000	54	91	1.5	0.949
	100	36	1.5	111.2	144.2	22309MB	22309MBK	3600	4500	54	91	1.5	1.4
100	100	36	1.5	146.3	175.1	22309CA	22309CAK	3800	4800	54	91	1.5	1.38
	100	36	1.5	146.3	175.1	22309CC	22309CCK	4000	5300	54	91	1.5	1.37
100	100	36	1.5	164.8	190.5	22309CTN1	22309KCTN1	4000	5300	54	91	1.5	1.39
	50	90	23	1.1	53.8	75.4	22210MB	22210MBK	3800	4800	57	83	1
90		23	1.1	87	108.1	22210CA	22210CAK	4000	5000	57	83	1	0.62
90	90	23	1.1	86.3	105.1	22210CC	22210CCK	4300	5300	57	83	1	0.614
	90	23	1.1	99.4	113.3	22210CTN1	22210KCTN1	4300	5300	57	83	1	0.596
110	110	27	2	123.6	144.2	21310CA	21310CAK	2800	3800	60	100	2	1.3
	110	27	2	128.7	144.2	21310CC	21310CCK	2800	3800	60	100	2	1.3
110	110	27	2	128.7	144.2	21310CTN1	21310KCTN1	2800	3800	60	100	2	1.22
	110	40	2	131.8	175.1	22310MB	22310MBK	3400	4300	60	100	2	1.9
110	110	40	2	180.3	216.3	22310CA	22310CAK	3400	4300	60	100	2	1.85
	110	40	2	180.3	216.3	22310CC	22310CCK	3800	4800	60	100	2	1.79
110	110	40	2	197.7	234.8	22310CTN1	22310KCTN1	3800	4800	60	100	2	1.84
	55	100	25	1.5	61.8	89.8	22211MB	22211MBK	3400	4300	64	91	1.5
100		25	1.5	105.1	128.8	22211CA	22211CAK	3600	4500	64	91	1.5	0.84
100	100	25	1.5	105.1	128.8	22211CC	22211CCK	3800	5000	64	91	1.5	0.847
	100	25	1.5	121.5	144.2	22211CTN1	22211KCTN1	3800	5000	64	91	1.5	0.823
120	120	29	2	146.3	175.1	21311CA	21311CAK	2600	3400	65	110	2	1.65
	120	29	2	146.3	175.1	21311CC	21311CCK	2600	3400	65	110	2	1.65
120	120	29	2	149.3	170	21311CTN1	21311KCTN1	2600	3400	65	110	2	1.57
	120	43	2	159.6	203.9	22311MB	22311MBK	3000	3800	65	110	2	2.4
120	120	43	2	214.2	257.5	22311CA	22311CAK	3000	3800	65	110	2	2.35
	120	43	2	216.3	259.6	22311CC	22311CCK	3400	4300	65	110	2	2.31
120	120	43	2	231.7	272.9	22311CTN1	22311KCTN1	3400	4300	65	110	2	2.32
	60	110	28	1.5	84.3	125.7	22212MB	22212MBK	3200	4000	69	101	1.5
110		28	1.5	125.7	159.7	22212CA	22212CAK	3200	4000	69	101	1.5	1.2
110	110	28	1.5	125.7	159.7	22212CC	22212CCK	3600	4500	69	101	1.5	1.15
	110	28	1.5	154.5	190.5	22212CTN1	22212KCTN1	3600	4500	69	101	1.5	1.14
130	130	31	2.1	166.9	200.9	21312CA	21312CAK	2400	3200	72	118	2.1	2.08
	130	31	2.1	166.9	200.9	21312CC	21312CCK	2400	3200	72	118	2.1	2.08

**SPHERICAL ROLLER BEARINGS**

Boundary dimensions(mm)				load ratings(KN)		Bearing No.		Limiting speeds (r/min)		Mounnting dimensions (mm)			Mass (kg)
d	D	B	rsmín	Cr	Cor	Cylindrical Bore	Tapered Bore	Grease	Oil	da(min)	Da(max)	ra(max)	
	130	31	2.1	175.1	200.9	21312CTN1	21312KCTN1	2400	3200	72	118	2.1	1.96
	130	46	2.1	173	231.8	22312MB	22312MBK	2800	3600	72	118	2.1	3
	130	46	2.1	245.1	293.6	22312CA	22312CAK	2800	3600	72	118	2.1	2.95
	130	46	2.1	249.3	300.8	22312CC	22312CCK	3200	4000	72	118	2.1	2.88
	130	46	2.1	262	312	22312CTN1	22312KCTN1	3200	4000	72	118	2.1	2.96
<b>65</b>	120	31	1.5	91.2	131.8	22213MB	22213MBK	2800	3600	74	111	1.5	1.63
	120	31	1.5	154.5	200.8	22213CA	22213CAK	2800	3600	74	111	1.5	1.6
	120	31	1.5	154.5	200.8	22213CC	22213CCK	3200	4000	74	111	1.5	1.54
	120	31	1.5	172	212	22213CTN1	22213KCTN1	3200	4000	74	111	1.5	1.53
	140	33	2.1	187.5	234.8	21313CA	21313CAK	2200	3000	77	128	2.1	2.57
	140	33	2.1	187.5	234.8	21313CC	21313CCK	2200	3000	77	128	2.1	2.57
	140	33	2.1	198	235	21313CTN1	21313KCTN1	2200	3000	77	128	2.1	2.45
	140	48	2.1	193.6	259.6	22313MB	22313MBK	2400	3200	77	128	2.1	3.6
	140	48	2.1	267.8	324.4	22313CA	22313CAK	2400	3200	77	128	2.1	3.55
	140	48	2.1	372.9	329.6	22313CC	22313CCK	3000	3800	77	128	2.1	3.47
	140	48	2.1	295	355	22313CTN1	22313KCTN1	3000	3800	77	128	2.1	3.57
<b>70</b>	125	31	1.5	97.9	146.3	22214MB	22214MBK	2600	3400	79	116	1.5	1.66
	125	31	1.5	162.7	211.2	22214CA	22214CAK	2600	3400	79	116	1.5	1.7
	125	31	1.5	154.5	200.8	22214CC	22214CCK	3000	3800	79	116	1.5	1.6
	125	31	1.5	180	225	22214CTN1	22214KCTN1	3000	3800	79	116	1.5	1.6
	150	35	2.1	218.4	276	21314CA	21314CAK	2000	2800	82	138	2.1	3.11
	150	35	2.1	218.4	276	21314CC	21314CCK	2000	2800	82	138	2.1	3.11
	150	35	2.1	220	265	21314CTN1	21314KCTN1	2000	2800	82	138	2.1	2.97
	150	51	2.1	236.9	324.5	22314MB	22314MBK	2200	3000	82	138	2.1	4.4
	150	51	2.1	300.8	372.9	22314CA	22314CAK	2200	3000	82	138	2.1	4.4
	150	51	2.1	321.4	406.9	22314CC	22314CCK	2800	3400	82	138	2.1	4.34
	150	51	2.1	332	405	22314CTN1	22314KCTN1	2800	3400	82	138	2.1	4.35
<b>75</b>	130	31	1.5	97.85	146.3	22215MB	22215MBK	2400	3200	84	121	1.5	1.75
	130	31	1.5	166.9	221.5	22215CA	22215CAK	2400	3200	84	121	1.5	1.8
	130	31	1.5	166.9	221.5	22215CC	22215CCK	3000	3800	84	121	1.5	1.69
	130	31	1.5	180	232	22215CTN1	22215KCTN1	3000	3800	84	121	1.5	1.67
	160	37	2.1	245.1	311.1	21315CA	21315CAK	1900	2600	87	148	2.1	3.76
	160	37	2.1	245.1	311.1	21315CC	21315CCK	1900	2600	87	148	2.1	3.76
	160	37	2.1	245.1	311.1	21315CTN1	21315KCTN1	1900	2600	87	148	2.1	3.63
	160	55	2.1	269.9	399.6	22315MB	22315MBK	2000	2800	87	148	2.1	5.4
	160	55	2.1	352.3	451.1	22315CA	22315CAK	2000	2800	87	148	2.1	5.25
	160	55	2.1	358.4	461.4	22315CC	22315CCK	2600	3200	87	148	2.1	5.28
	160	55	2.1	380	470	22315CTN1	22315KCTN1	2600	3200	87	148	2.1	5.33
<b>80</b>	140	33	2	118.5	185.4	22216MB	22216MBK	2200	3000	90	130	2	2.2

**SPHERICAL ROLLER BEARINGS**

Boundary dimensions(mm)				load ratings(KN)		Bearing No.		Limiting speeds (r/min)		Mounnting dimensions (mm)			Mass (kg)
d	D	B	rsmín	Cr	Cor	Cylindrical Bore	Tapered Bore	Grease	Oil	da(min)	Da(max)	ra(max)	
	140	33	2	180.3	245.1	22216CA	22216CAK	2200	3000	90	130	2	2.2
	140	33	2	180.3	242.1	22216CC	22216CCK	2800	3400	90	130	2	2.13
	140	33	2	212	275	22216CTN1	22216KCTN1	2800	3400	90	130	2	2.09
	170	39	2.1	267.8	358.6	21316CA	21316CAK	1800	2400	92	158	2.1	4.47
	170	39	2.1	267.8	358.6	21316CC	21316CCK	1800	2400	92	158	2.1	4.47
	170	39	2.1	280	350	21316CTN1	21316KCTN1	1800	2400	92	158	2.1	4.33
	170	58	2.1	296.6	417.2	22316MB	22316MBK	1900	2600	92	158	2.1	6.4
	170	58	2.1	396.6	512.9	22316CA	22316CAK	1900	2600	92	158	2.1	6.39
	170	58	2.1	403.8	523.2	22316CC	22316CCK	2400	3000	92	158	2.1	6.32
	170	58	2.1	412	515	22316CTN1	22316KCTN1	2400	3000	92	158	2.1	6.27
<b>85</b>	150	36	2	149.4	234.8	22217MB	22217MBK	2000	2800	95	140	2	2.8
	150	36	2	216.3	286.3	22217CA	22217CAK	2000	2800	95	140	2	2.7
	150	36	2	218.4	290.5	22217CC	22217CCK	2600	3200	95	140	2	2.67
	150	36	2	262	340	22217CTN1	22217KCTN1	2600	3200	95	140	2	2.64
	180	41	3	306.9	396.6	21317CA	21317CAK	1700	2200	99	166	2.5	5.23
	180	41	3	306.9	396.6	21317CC	21317CCK	1700	2200	99	166	2.5	5.23
	180	41	3	310	390	21317CTN1	21317KCTN1	1700	2200	99	166	2.5	5.07
	180	60	3	317.2	453.2	22317MB	22317MBK	1800	2400	99	166	2.5	7.4
	180	60	3	432.6	556.2	22317CA	22317CAK	1800	2400	99	166	2.5	7.25
	180	60	3	442.9	571.7	22317CC	22317CCK	2200	2800	99	166	2.5	7.27
	180	60	3	460	572	22317CTN1	22317KCTN1	2200	2800	99	166	2.5	7.27
<b>90</b>	160	40	2	173	280.2	22218MB	22218MBK	1900	2600	100	150	2	4
	160	40	2	247.2	331.7	22218CA	22218CAK	1900	2600	100	150	2	3.28
	160	40	2	257.5	348.1	22218CC	22218CCK	2400	3000	100	150	2	3.38
	160	40	2	280	378	22218CTN1	22218KCTN1	2400	3000	100	150	2	3.35
	160	52.4	2	334.7	492	23218CA	23218CAK	1700	2200	100	150	2	4.6
	160	52.4	2	340	496.5	23218CC	23218CCK	1800	2400	100	150	2	4.4
	190	43	3	329.6	432.6	21318CA	21318CAK	1600	2200	104	176	2.5	6.17
	190	43	3	329.6	432.6	21318CC	21318CCK	1600	2200	104	176	2.5	6.17
	190	43	3	330	420	21318CTN1	21318KCTN1	1600	2200	104	176	2.5	5.88
	190	64	3	375.9	558.3	22318MB	22318MBK	1700	2200	104	176	2.5	8.8
	190	64	3	489.3	640.7	22318CA	22318CAK	1800	2400	104	176	2.5	8.6
	190	64	3	496.5	659.2	22318CC	22318CCK	2200	2600	104	176	2.5	8.63
	190	64	3	518	660	22318CTN1	22318KCTN1	2200	2600	104	176	2.5	8.72
<b>95</b>	170	43	2.1	218.4	331.7	22219MB	22219MBK	1800	2400	107	158	2.1	4.2
	170	43	2.1	286.3	391.4	22219CA	22219CAK	1900	2600	107	158	2.1	4.1
	170	43	2.1	290.5	401.7	22219CC	22219CCK	2200	2800	107	158	2.1	4.2
	170	43	2.1	310	420	22219CTN1	22219KCTN1	2200	2800	107	158	2.1	4.1
	200	45	3	365.7	499.6	21319CA	21319CAK	1700	2200	109	186	2.5	7.15

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Boundary dimensions(mm)				load ratings(KN)		Bearing No.		Limiting speeds (r/min)		Mounnting dimensions (mm)			Mass (kg)
d	D	B	rsmn	Cr	Cor	Cylindrical Bore	Tapered Bore	Grease	Oil	dalmin)	Da(max)	ra(max)	
	200	45	3	365.7	499.6	21319CC	21319CCK	1700	2200	109	186	2.5	7.15
	200	45	3	365	499	21319CTN1	21319KCTN1	1700	2200	109	186	2.5	6.9
	200	67	3	396.6	587.1	22319MB	22319MBK	1600	2000	109	186	2.5	10.3
	200	67	3	535.6	708.6	22319CA	22319CAK	1700	2200	109	186	2.5	10.1
	200	67	3	545.9	726.2	22319CC	22319CCK	2000	2600	109	186	2.5	9.97
	200	67	3	568	728	22319CTN1	22319KCTN1	2000	2600	109	186	2.5	10.1
100	165	52	2	329.6	520.2	23120CA	23120CAK	1600	2000	110	155	2	5
	165	52	2	331.7	525.3	23120CC	23120CCK	1700	2200	110	155	2	4.31
	150	50	1.5	251	448	24020CA		1200	1500	110	140	1.5	3.035
	150	50	1.5	260	461	24020CC		1200	1500	110	140	1.5	3.035
	180	46	2.1	228.7	368.7	22220MB	22220MBK	1700	2200	112	168	2.1	5
	180	46	2.1	319.3	437.8	22220CA	22220CAK	1800	2400	112	168	2.1	5
	180	46	2.1	324.5	448.1	22220CC	22220CCK	2200	2600	112	168	2.1	5.01
	180	46	2.1	368	492	22220CTN1	22220KCTN1	2200	2600	112	168	2.1	4.97
95	180	46	2.1	325	448	22220-95	22220-95K	2200	2600	112	168	2.1	5.21
100	180	60.3	2.1	427.5	636.5	23220CA	23220CAK	1600	2000	112	168	2.1	6.7
	180	60.3	2.1	432.6	648.9	23220CC	23220CCK	1600	2200	112	168	2.1	6.52
	215	47	3	396.6	545.9	21320CA	21320CAK	1600	2000	114	201	2.5	8.81
	215	47	3	396.6	545.9	21320CC	21320CCK	1600	2000	114	201	2.5	8.81
	215	47	3	425	575	21320CTN1	21320KCTN1	1600	2000	114	201	2.5	8.63
	215	73	3	463.5	688	22320MB	22320MBK	1400	1800	114	201	2.5	13
	215	73	3	626.2	839.5	22320CA	22320CAK	1400	1800	114	201	2.5	13.4
	215	73	3	636.5	856.9	22320CC	22320CCK	1900	2400	114	201	2.5	12.8
	215	73	3	658	855	22320CTN1	22320KCTN1	1900	2400	114	201	2.5	13
105	175	56	3	249	494	23121MB	23121MBK	1400	1800	119	161	2.5	6.64
	225	49	3	420	575	21321CA	21321CAK	1500	1900	119	211	2.5	10
	225	49	3	420	575	21321CC	21321CCK	1500	1900	119	211	2.5	10
110	170	45	2	201	422	23022MB	23022MBK	1400	1800	120	160	2	3.9
	170	45	2	278	461	23022CA	23022CAK	1500	1900	120	160	2	3.9
	170	45	2	280	466	23022CC	23022CCK	1500	1900	120	160	2	3.68
	180	56	2	270	489	23122MB	23122MBK	1300	1700	120	170	2	6.1
	180	56	2	386	613	23122CA	23122CAK	1300	1700	120	170	2	6.25
	180	56	2	389	620	23122CC	23122CCK	1600	2000	120	170	2	5.51
	180	69	2	472	798	24122CA	24122CAK30	1600	2000	120	170	2	6.63
	180	69	2	472	798	24122CC	24122CCK30	1600	2000	120	170	2	6.63
	200	53	2.1	297	479	22222MB	22222MBK	1500	1900	122	188	2.1	7.4
	200	53	2.1	417	592	22222CA	22222CAK	1700	2200	122	188	2.1	7.2
	200	53	2.1	422	606	22222CC	22222CCK	1900	2400	122	188	2.1	7.32
	200	69.8	2.1	530	809	23222CA	23222CAK	1400	1800	122	188	2.1	9.7

**SPHERICAL ROLLER BEARINGS**

Boundary dimensions(mm)				load ratings(KN)		Bearing No.		Limiting speeds (r/min)		Mounnting dimensions (mm)			Mass (kg)
d	D	B	rsmn	Cr	Cor	Cylindrical Bore	Tapered Bore	Grease	Oil	dalmin)	Da(max)	ra(max)	
	200	69.8	2.1	536	824	23222CC	23222CCK	1500	1900	122	188	2.1	9.46
	240	50	3	460	635	21322CA	21322CAK	1400	1800	124	226	2.5	11.8
	240	50	3	474	654	21322CC	21322CCK	1400	1800	124	226	2.5	11.8
	240	80	3	561	857	22322MB	22322MBK	1200	1600	124	226	2.5	18.1
	240	80	3	716	963	22322CA	22322CAK	1500	1900	124	226	2.5	18
	240	80	3	736	997	22322CC	22322CCK	1700	2200	124	226	2.5	17.5
120	180	46	2	218	484	23024MB	23024MBK	1200	1600	130	170	2	4.3
	180	46	2	304	510	23024CA	23024CAK	1400	1800	130	170	2	4.3
	180	46	2	309	515	23024CC	23024CCK	1800	2200	130	170	2	3.98
	180	60	2	380	675	24024CA	24024CAK30	1500	2000	130	170	2	5.05
	180	60	2	391	695	24024CC	24024CCK30	1500	2000	130	170	2	5.05
	200	62	2	299	589	23124MB	23124MBK	1100	1500	130	190	2	7.63
	200	62	2	463	736	23124CA	23124CAK	1300	1700	130	190	2	7.63
	200	62	2	463	744	23124CC	23124CCK	1400	1800	130	190	2	7.67
	200	80	2	575	998	24124CA	24124CAK30	1400	1800	130	190	2	9.65
	200	80	2	592	1028	24124CC	24124CCK30	1400	1800	130	190	2	9.65
	215	58	2.1	352	582	22224MB	22224MBK	1300	1700	132	203	2.1	9.2
	215	58	2.1	484	698	22224CA	22224CAK	1600	2000	132	203	2.1	9
	215	58	2.1	494	711	22224CC	22224CCK	1700	2200	132	203	2.1	9.1
	215	76	2.1	620	968	23224CA	23224CAK	1300	1700	132	203	2.1	12
	215	76	2.1	628	984	23224CC	23224CCK	1300	1700	132	203	2.1	11.7
	260	86	3	664	1022	22324MB	22324MBK	1100	1500	134	246	2.5	22
	260	86	3	847	1154	22324CA	22324CAK	1300	1700	134	246	2.5	22
	260	86	3	870	1195	22324CC	22324CCK	1500	1900	134	246	2.5	22.2
130	200	52	2	278	626	23026MB	23026MBK	1100	1500	140	190	2	6.2
	200	52	2	383	644	23026CA	23026CAK	1200	1600	140	190	2	6.2
	200	52	2	386	649	23026CC	23026CCK	1700	2000	140	190	2	5.85
	200	69	2	472	852	24026CA	24026CAK30	1400	1800	140	190	2	7.55
	200	69	2	486	878	24026CC	24026CCK30	1400	1800	140	190	2	7.55
	210	64	2	492	812	23126CA	23126CAK	1300	1700	140	200	2	8.49
	210	64	2	496	826	23126CC	23126CCK	1300	1700	140	200	2	8.49
	210	80	2	585	1030	24126CA	24126CAK30	1200	1600	140	200	2	10.3
	210	80	2	603	1061	24126CC	24126CCK30	1300	1700	140	200	2	10.3
	230	64	3	420	729	22226MB	22226MBK	1200	1600	144	216	2.5	11.2
	230	64	3	567	834	22226CA	22226CAK	1400	1800	144	216	2.5	11.2
	230	64	3	579	857	22226CC	22226CCK	1600	2000	144	216	2.5	11.2
	230	80	3	708	1092	23226CA	23226CAK	1200	1600	144	216	2.5	14
	230	80	3	698	1112	23226CC	23226CCK	1200	1600	144	216	2.5	13.8
	280	93	4	744	1170	22326MB	22326MBK	950	1300	148	262	3	29

**SPHERICAL ROLLER BEARINGS**

Boundary dimensions(mm)				load ratings(KN)		Bearing No.		Limiting speeds (r/min)		Mounnting dimensions (mm)			Mass (kg)
d	D	B	rsmn	Cr	Cor	Cylindrical Bore	Tapered Bore	Grease	Oil	da(min)	Da(max)	ra(max)	
	280	93	4	970	1340	22326CA	22326CAK	1200	1600	148	262	3	28.5
	280	93	4	994	1380	22326CC	22326CCK	1400	1800	148	262	3	27.5
140	210	53	2	294	654	23028MB	23028MBK	950	1300	150	200	2	6.7
	210	53	2	414	719	23028CA	23028CAK	1100	1500	150	200	2	6.7
	210	53	2	420	720	23028CC	23028CCK	1600	1900	150	200	2	6.31
	210	69	2	488	895	24028CA	24028CAK30	1200	1600	150	200	2	8.01
	210	69	2	503	922	24028CC	24028CCK30	1300	1700	150	200	2	8.01
	225	68	2.1	410	623	23128MB	23128MBK	950	1300	152	213	2.1	10.9
	225	68	2.1	561	953	23128CA	23128CAK	1100	1500	152	213	2.1	10.9
	225	68	2.1	554	932	23128CC	23128CCK	1200	1600	152	213	2.1	10.2
	225	85	2.1	670	1200	24128CA	24128CAK30	1100	1500	152	213	2.1	12.5
	250	68	3	492	829	22228MB	22228MBK	1000	1400	154	236	2.5	14.5
	250	68	3	647	958	22228CA	22228CAK	1300	1700	154	236	2.5	14.5
	250	68	3	659	984	22228CC	22228CCK	1400	1700	154	236	2.5	14.2
	250	88	3	826	1320	23228CA	23228CAK	1000	1400	154	236	2.5	18.5
	250	88	3	836	1340	23228CC	23228CCK	1100	1500	154	236	2.5	18.1
	300	102	4	850	1380	22328MB	22328MBK	900	1200	158	282	3	36
	300	102	4	1140	1620	22328CA	22328CAK	1100	1500	158	282	3	34.5
	300	102	4	1164	1660	22328CC	22328CCK	1300	1700	158	282	3	34.6
	225	56	2.1	338	790	23030MB	23030MBK	900	1200	162	213	2.1	8.14
	225	56	2.1	451	790	23030CA	23030CAK	1100	1400	162	213	2.1	8.14
	225	75	2.1	570	1070	24030CA	24030CAK30	1100	1400	162	213	2.1	10.6
	250	80	2.1	527	1110	23130MB	23130MBK	850	1100	162	238	2.1	16.1
	250	80	2.1	747	1267	23130CA	23130CAK	1000	1300	162	238	2.1	16.1
	250	100	2.1	890	1600	24130CA	24130CAK30	1000	1300	162	238	2.1	19
	270	73	3	523	900	22230MB	22230MBK	950	1300	164	256	2.5	18.5
	270	73	3	760	1130	22230CA	22230CAK	1200	1600	164	256	2.5	18.6
	270	73	3	772	1164	22230CC	22230CCK	1300	1600	164	256	2.5	18
	270	96	3	963	1560	23230CA	23230CAK	950	1300	164	256	2.5	24
	320	108	4	1050	1790	22330MB	22330MBK	850	1100	168	302	3	43
	320	108	4	1270	1850	22330CA	22330CAK	1100	1400	168	302	3	42.5
	240	60	2.1	379	850	23032MB	23032MBK	850	1100	172	228	2.1	10
	240	60	2.1	515	900	23032CA	23032CAK	1000	1300	172	228	2.1	10
	240	80	2.1	652	1230	24032CA	24032CAK30	1000	1300	172	228	2.1	12.2
	270	86	2.1	536	1140	23132MB	23132MBK	800	1000	172	258	2.1	19.7
	270	86	2.1	870	1460	23132CA	23132CAK	900	1200	172	258	2.1	19.7
	270	109	2.1	1040	1880	24132CA	24132CAK30	900	1200	172	258	2.1	24.6
	290	80	3	660	1170	22232MB	22232MBK	900	1200	174	276	2.5	22.2
	290	80	3	850	1280	22232CA	22232CAK	1000	1400	174	276	2.5	23.1

**SPHERICAL ROLLER BEARINGS**

Boundary dimensions(mm)				load ratings(KN)		Bearing No.		Limiting speeds (r/min)		Mounnting dimensions (mm)			Mass (kg)
d	D	B	rsmn	Cr	Cor	Cylindrical Bore	Tapered Bore	Grease	Oil	da(min)	Da(max)	ra(max)	
	310	109	2.1	1120	2220	24040CA	24040CAK30	670	850	212	298	2.1	29.3
	340	112	3	937	2070	23140MB	23140MBK	630	800	214	326	2.5	50.7
	340	112	3	1420	2530	23140CA	23140CAK	800	1000	214	326	2.5	47.6
	340	140	3	1480	2550	24140MB	24140MBK	700	900	214	326	2.5	49.55
	340	140	3	1620	3030	24140CA	24140CAK30	800	1000	214	326	2.5	49.9
	360	98	4	947	1790	22240MB	22240MBK	700	900	218	342	3	47.7
	360	128	4	1650	2870	23240CA	23240CAK	750	1000	218	342	3	55.4
	420	138	5	1530	2800	22340MB	22340MBK	630	800	222	398	4	94
220	340	90	3	783	1860	23044MB	23044MBK	600	750	234	326	2.5	28.8
	340	90	3	1090	2040	23044CA	23044CAK	950	1200	234	326	2.5	29.7
	340	118	3	1370	2760	24044CA	24044CAK	750	1000	234	326	2.5	38.1
	370	120	4	1060	2420	23144MB	23144MBK	600	750	238	352	3	55
	370	120	4	1610	2900	23144CA	23144CAK	700	950	238	352	3	51.5
	370	150	4	1900	3580	24144CA	24144CAK	700	950	238	352	3	62.3
	400	108	4	1200	2280	22244MB	22244MBK	630	800	238	382	3	61.5
	400	144	4	2130	3720	23244CA	23244CAK	670	900	238	382	3	78.5
	460	145	5	1740	3290	22344MB	22344MBK	560	700	242	438	4	120
240	360	92	3	816	2120	23048MB	23048MBK	530	670	254	346	2.5	35.5
	360	92	3	1160	2220	23048CA	23048CAK	850	1100	254	346	2.5	32.4
	360	118	3	1440	2930	24048CA	24048CAK	700	950	254	346	2.5	40.8
	400	128	4	1230	2910	23148MB	23148MBK	500	630	258	382	3	55.5
	400	128	4	1840	3310	23148CA	23148CAK	670	850	258	382	3	63.7
	400	160	4	2160	4090	24148CA	24148CAK	670	850	258	382	3	76.9
	440	160	4	2560	4620	23248CA	23248CAK	630	800	258	422	3	107.3
	500	155	5	1780	3340	22348MB	22348MBK	500	630	262	478	4	153
	320	60	2.1	540	1320	23948CA	23948CAK	1250	1750	252	308	2	14.95
260	400	104	4	1030	2520	23052MB	23052MBK	500	630	278	382	3	51.5
	400	104	4	1460	2850	23052CA	23052CAK	800	950	278	382	3	47.7
	400	140	4	1840	3850	24052CA	24052CAK	630	850	278	382	3	62.4
	440	144	4	1470	3410	23152MB	23152MBK	450	560	278	422	3	95.3
	440	144	4	2270	4190	23152CA	23152CAK	600	800	278	422	3	88.2
	440	180	4	2730	5330	24152CA	24152CAK	600	800	278	422	3	107.6
	540	165	6	2260	4310	22352MB	22352MBK	480	600	288	512	5	191
	360	75	2.1	820	1750	23952CA	23952CAK	1150	1550	272	348	2	21.65
280	420	106	4	1110	2760	23056MB	23056MBK	450	560	298	402	3	62
	420	106	4	1580	3030	23056CA	23056CAK	700	900	298	402	3	50.9
	420	140	4	1960	4100	24056CC	24056CCK	600	800	298	402	3	65.8
	460	146	5	2380	4410	23156CA	23156CAK	560	750	302	438	4	94.1
	460	180	5	2810	5480	24156CA	24156CAK	560	750	302	438	4	113.2

**SPHERICAL ROLLER BEARINGS**

Boundary dimensions(mm)				load ratings(KN)		Bearing No.		Limiting speeds (r/min)		Mounnting dimensions (mm)			Mass (kg)
d	D	B	rsmin	Cr	Cor	Cylindrical Bore	Tapered Bore	Grease	Oil	da(min)	Da(max)	ra(max)	
	500	130	5	1740	3480	22256CA	22256CAK	500	630	302	478	4	112.3
	580	175	6	2490	4780	22356CA	22356CAK	450	560	308	552	5	238
	380	75	2.1	710	1860	23956CA	23956CAK	1050	1350	292	368	2	25.67
<b>300</b>	460	118	4	1910	3800	23060CA	23060CAK	670	850	318	442	3	71.4
	460	160	4	2430	5160	24060CA	24060CAK	530	700	318	442	3	94.1
	500	160	5	1990	4550	23160CA	23160CAK	400	500	322	478	4	133
	540	140	5	1895	3550	22260CA	22260CAK	450	560	322	518	4	134
	540	192	5	3200	5500	23260CA	23260CAK	540	680	322	518	4	191.85
	420	90	3	1060	2540	23960CA	23960CAK	940	1400	314	406	2.5	40.15
<b>320</b>	580	150	5	2500	4560	22264CA	22264CAK	680	860	342	558	4	175
	480	121	4	1940	2150	23064CA	23064CAK	810	1100	338	462	3	85
	480	160	4	2500	5150	24064CA	24064CAK	550	650	338	462	3	105.85
	540	176	5	3200	3350	23164CA	23164CAK	640	790	342	518	4	198
	580	208	5	3900	6800	23264CA	23264CAK	500	640	342	558	4	254.5
<b>340</b>	520	133	5	2000	4500	23068CA	23068CAK	750	950	362	498	4	115.55
	580	190	5	3100	6400	23168CA	23168CAK	610	760	362	558	4	205.98
	520	180	5	2500	5680	24068CA	24068CAK	540	680	362	498	4	138.5
	460	90	3	1200	2700	23968CA	23968CAK	950	1250	354	446	2.5	46
<b>360</b>	540	134	5	2280	4900	23072CA	23072CAK	680	860	382	518	4	126.65
	600	192	5	3300	6900	23172CA	23172CAK	550	710	382	578	4	256
	600	243	5	5550	8400	24172CA	24172CAK	310	380	382	578	4	270
	750	224	7.5	5000	8700	22372CA	22372CAK	410	510	392	720	6	465
	650	232	6	4600	8250	23272CA	23272CAK	400	500	388	622	5	332
	480	90	3	1290	2820	23972CA	23972CAK	860	1150	374	466	2.5	47
<b>380</b>	560	135	5	2500	5000	23076CA	23076CAK	640	850	402	538	4	132
	560	180	5	3200	6950	24076CA	24076CAK	480	590	402	538	4	153
	620	194	5	3400	7400	23176CA	23176CAK	410	510	402	598	4	245
	520	106	4	1740	3850	23976CA	23976CAK	800	1000	398	502	3	69.8
<b>400</b>	600	148	5	2550	5900	23080CA	23080CAK	600	750	422	578	4	162
	600	200	5	3600	7850	24080CA	24080CAK	450	560	422	578	4	202
	650	200	6	4120	7660	23180CA	23180CAK	390	490	428	622	5	274
	720	256	6	6200	11300	23280CA	23280CAK	350	440	428	692	5	354
	540	106	4	1740	3900	23980CA	23980CAK	760	960	418	522	3	73
<b>420</b>	620	150	5	2700	6450	23084CA	23084CAK	460	550	442	598	4	150
	620	200	5	3400	8500	24084CA	24084CAK	220	400	442	598	4	200
	700	224	6	3700	5200	23184CA	23184CAK	360	460	448	672	5	354
	760	272	7.5	5600	12000	23284CA	23284CAK	330	410	456	724	6	550
<b>440</b>	650	157	6	2800	6500	23088CA	23088CAK	430	530	468	622	5	186
	720	226	6	4500	10500	23188CA	23188CAK	350	440	468	692	5	378

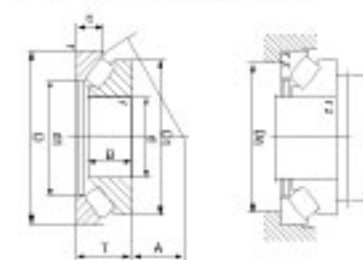
**SPHERICAL ROLLER BEARINGS**

Boundary dimensions(mm)				load ratings(KN)		Bearing No.		Limiting speeds (r/min)		Mounnting dimensions (mm)			Mass (kg)
d	D	B	rsmin	Cr	Cor	Cylindrical Bore	Tapered Bore	Grease	Oil	da(min)	Da(max)	ra(max)	
<b>460</b>	680	163	6	3500	7000	23092CA	23092CAK	400	500	488	652	5	228
	680	218	6	4250	9150	24092CA	24092CAK	350	440	488	652	5	305
	760	300	7.5	6150	1450	24192CA	24192CAK	170	210	496	724	6	459
	760	240	7.5	5500	10500	23192CA	23192CAK	330	410	496	724	6	459
	830	296	7.5	7400	14000	23292CA	23292CAK	300	380	496	794	6	700
<b>480</b>	790	248	7.5	6100	12000	23196CA	23196CAK	300	380	516	754	6	516
	870	310	7.5	6800	15000	23296CA	23296CAK	260	350	516	834	6	855
	650	128	5	2200	5800	23996CA	23996CAK	410	510	501	628	4	61
<b>500</b>	720	167	6	3200	7600	230/500CA	230/500CAK	380	480	528	692	5	228
	920	336	7.5	8600	18700	232/500CA	232/500CAK	295	370	536	884	6	988
	670	118	5	2540	6000	239/500CA	239/500CAK	410	500	522	648	4	125
<b>530</b>	780	185	6	4000	10000	230/530CA	230/530CAK	350	450	558	752	5	338
<b>560</b>	820	195	6	4300	10500	230/560CA	230/560CAK	330	410	588	792	5	365
	920	280	7.5	7000	15900	231/560CA	231/560CAK	240	330	596	884	6	746
	750	140	5	3100	7250	239/560CA	239/560CAK	340	440	582	728	4	178
<b>600</b>	870	200	6	4700	11600	230/600CA	230/600CAK	310	390	628	842	5	445
	980	375	7.5	8800	21700	241/600CA	241/600CAK	110	160	636	944	6	1145
<b>630</b>	920	212	7.5	5160	13000	230/630CA	230/630CAK	270	350	666	884	6	475
<b>670</b>	980	230	7.5	5740	14300	230/670CA	230/670CAK	250	330	706	944	6	605
<b>750</b>	1090	250	7.5	7000	18000	230/750CA	230/750CAK	210	270	786	1054	6	790

# THRUST SPHERICAL ROLLER BEARING



## THRUST SPHERICAL ROLLER BEARING

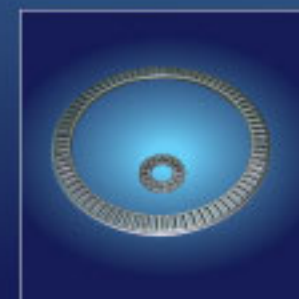


Boundary dimensions(mm)							load ratings(KN)		Bearing No.	Limiting speeds (r/min)		Mounnting dimensions(mm)		Mass (kg)
d	D	T	A	B	C	rmin	Cr	Cor		Grease	Oil	d1	D1	
60	130	42	38	15	20.1	1.5	270	765	29412	1850	2200	86	117.7	2.75
65	140	45	42	16	21.3	2	325	920	29413	1550	2200	93	126.8	3.41
70	150	48	44	17	22.7	2	365	980	29414	1450	2000	99.5	136.3	4.1
75	160	51	47	18	24.3	2	415	1140	29415	1450	1800	106	145.8	4.98
80	170	54	50	19	26.8	2.1	450	1240	29416	1450	1800	113	154.1	5.95
85	150	39	50	13	18.7	1.5	285	915	29317	1500	2000	111	137.9	2.87
	180	58	54	21	27.3	2.1	510	1450	29417	1200	1600	121	162.1	7.19
90	155	39	52	13	17.9	1.5	290	950	29318	1500	2000	117.5	143.3	3.06
	190	60	56	22	28.5	2.1	570	1620	29418	1200	1600	128	172	8.28
100	170	42	58	14	20.5	1.5	325	1100	29320	1400	1800	127.5	158	3.91
	210	67	62	24	32.4	3	680	1900	29420	1000	1400	141.5	190	11.2
110	190	48	64	16	22.1	2	430	1510	29322	1200	1600	144	177	5.67
	230	73	69	26	34.5	3	780	2340	29422	900	1200	153.5	209.1	14.7
120	210	54	70	18	25.9	2.1	520	1740	29324	1000	1400	156	194.4	7.96
	250	78	74	28	36.6	4	915	2770	29424	900	1200	170	225.4	18.5
130	225	58	76	19	27.8	2.1	600	2100	29326	900	1400	168	208.7	9.45
	270	85	81	31	39.7	4	1100	3170	29426	780	1100	182.5	243.5	23.6
140	240	60	82	20	28.9	2.1	670	2370	29328	850	1200	181	221.4	11.2
	280	85	86	31	39.8	4	1160	3410	29428	780	1000	194	254.1	24.6
150	250	60	87	30	29.8	2.1	695	2460	29330	850	1200	191.5	232	11.7
	300	90	92	32	42.1	4	1250	3880	29430	700	1000	209.5	271.3	29.6
160	270	67	92	23	31.7	3	815	2460	29332	800	1100	205	250.5	15.5
	320	95	99	34	47.1	5	1430	4370	29432	680	900	219	292.2	35.9
170	280	67	96	23	31.4	3	865	3010	29334	800	1000	216.5	260.2	16.3
	340	103	104	37	48.6	5	1600	4810	29434	630	850	234	309.2	44
180	250	42	97	15	21.3	1.5	420	3560	29236	750	1300	209	239	7.05
	300	73	103	25	34.6	3	980	3730	29336		1000	227.5	278.4	20.7
	360	109	110	39	51.9	5	1760	5500	29436	600	800	249.5	327.5	52.2
190	270	48	103	15	24	2	500	2000	29238		1300	224	254	7.95
	320	78	110	27	38.6	4	1140	6050	29338	580	760	240.5	298.5	25.5
	380	115	117	41	54.9	5	1930	4010	29438	750	800	262	345.3	61.4
200	280	48	108	15	24	2	512	2200	29240		1300	236	271	9.08
	340	85	116	29	39.1	4	1290	4750	29340	650	800	259	315.6	32
	400	122	122	44	57.5	5	2160	6820	29440	550	760	278	363.2	73

**THRUST SPHERICAL ROLLER BEARING**

Boundary dimensions(mm)							load ratings(KN)		Bearing No.	Limiting speeds (r/min)		Mounnting dimensions(mm)		Mass (kg)
d	D	T	A	B	C	rmin	Cr	Cor		Grease	Oil	d1	D1	
220	300	48	117	15	23	2	540	2300	29244		1200	258	287.3	9.84
	360	85	125	29	40.7	4	1340	5020	29344	650	800	278.5	334.4	34.5
	420	122	132	44	56.9	6	2200	7710	29444	500	680	300	383.2	74.2
240	340	60	160	19	29.3	2.1	788	3040	29248		1000	282	332	17.1
	380	85	135	27	41.7	4	1370	5270	29348	630	800	299	353.7	36.3
	440	122	142	44	56.9	6	2360	7650	29448	500	630	318	402	83
260	360	60	139	19	29.7	2.1	815	3550	29252		1000	303	342.4	18.5
	420	95	148	32	47.5	5	1370	6080	29352	550	710	325	393.1	51.5
	480	132	154	48	64.7	6	2750	9050	29452	450	630	343.5	440.8	106
280	380	60	150	19	29.5	2.1	850	3860	29256		900	323	362	19.5
	440	95	158	32	46.3	5	1830	6750	29356	550	710	346	412.5	54
	520	145	166	52	67.6	6	3150	10800	29456	430	560	373.5	476.1	137
300	420	73	162	21	35.8	3	1140	3000	29260		710	350.5	399.8	31
	480	109	168	37	53.1	5	2120	7850	29360	470	630	371.5	447.8	75.4
	540	145	172	52	68.3	6	3350	10800	29460	400	500	395	479.5	146
320	440	73	172	21	36	3	1140	3100	29264		630	369.5	418.6	32.8
	500	109	180	37	53	5	2240	8900	29364	450	560	393	468	80
	580	155	191	56	76.1	7.5	3800	13500	29464	380	500	418	534.9	179
340	460	73	183	21	36.5	3	1160	3200	29268		630	395	439.2	34.5
	540	122	192	41	57.8	5	2600	9650	29368	400	500	422	504	106
	620	170	201	61	79.1	7.5	4300	15100	29468	340	450	448.5	565.7	228
360	500	85	194	25	40.8	4	1500	4050	29272		560	419	475.7	50.4
	560	122	202	41	58.1	5	2700	10700	29372		500	442.5	475.3	140
	640	170	210	61	81.6	7.5	4500	16200	29472		450	468.5	565.7	234
380	520	85	202	27	41.8	4	1530	4300	29276		560	439	524.3	52.8
	600	132	216	44	61.4	6	3200	12500	29376		500	476	588.9	140
	670	175	230	61	85.2	7.5	4650	17300	29476		430	488.5	469.2	263
400	540	85	212	27	41.9	4	1600	7600	29280		700	459	515.3	55.1
	620	132	225	44	64.7	6	3350	12800	29380		450	490	564.09	146
	710	185	236	67	92.3	7.5	5200	19700	29480		380	515.5	621.1	314
420	580	95	225	30	49.2	5	2000	5600	29284		560	485	552.6	74.9
	650	140	235	48		6	3570	13400	29384		420	514.5	620	170
	730	185	244	67	91.2	7.5	5400	20200	29484		370	520	675.3	325
440	600	95	235	30	49.3	5	2040	9680	29288		560	505	573.8	79
	680	145	245	49	70.8	6	3800	14800	29388		400	539	637.3	192
	780	206	260	74	101.6	9.5	6200	23400	29488		350	572	715.7	421
460	620	95	245	30	49.6	5	2080	10000	29292		500	535	597.8	80.9
	710	150	257	51	74.4	6	4150	16200	29392		400	559.5	665.1	216
	800	206	272	74	99.9	9.5	6400	25100	29492		350	596.5	737.1	435
480	650	103	259	33	55	5	2150	11800	29296		480	556	635	98
	730	150	270	51	74.4	6	4300	16700	29396		400	582	686	224
	850	224	280	71	106.5	9.5	7350	27000	29496		320	628.5	782.2	534.2

**NEEDLE ROLLER BEARINGS**



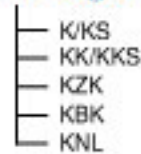
## NEEDLE ROLLER BEARINGS

The primary feature of needle roller bearings is their high load carrying capacity in spite of a low section height, thus meeting the requirements of lightweight constructions as regards high capacity in a restricted mounting space.

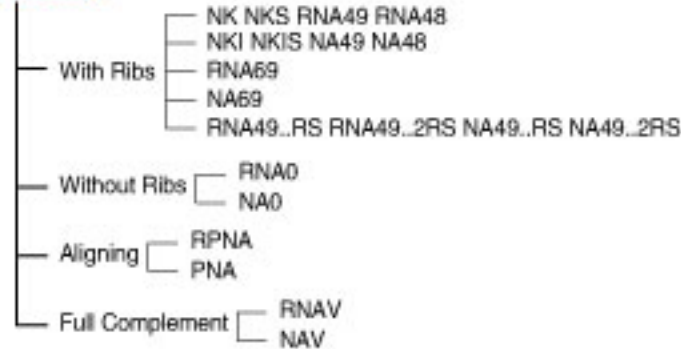
### Drawn Cup Needle Roller Bearings



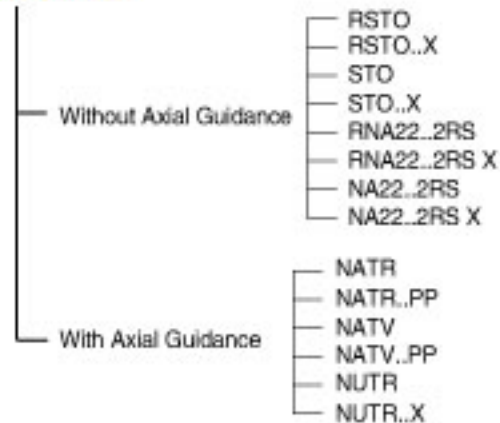
### Radial Needle and Caged Assemblies



### Needle Roller Bearings



### Yoke Type Track Rollers

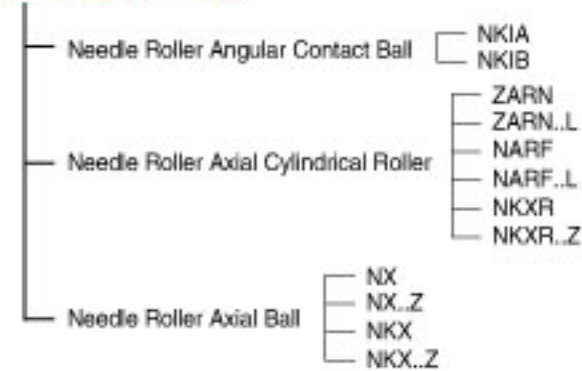


## NEEDLE ROLLER BEARINGS

### Stud Type Track Rollers



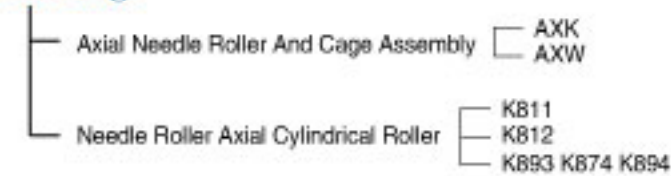
### Combined Radial Axial Bearings



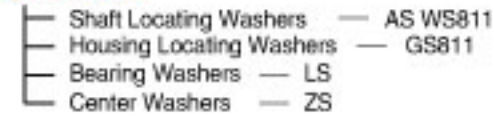
### Inner Ring



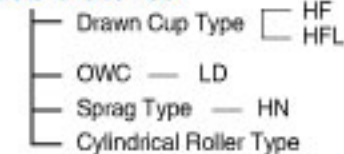
### Axial Bearings



### Yoke Type Track Rollers



### Various Clutches



### Automotive Needle Bearing

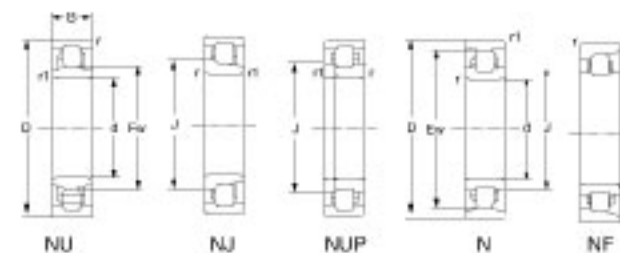
The type of bearings also can be divided into K KK KS KKS KNL HK BK F FH NK NKI RNA NA RNAV NAV and so on.



# CYLINDRICAL ROLLER BEARINGS



## CYLINDRICAL ROLLER BEARINGS



Bearing No.	Boundary Dimensions (mm)			Mass (kg) Approx
	d	D	B	
NU,NJ,NUP,N 205	25	52	15	0.15
NU,NJ,NUP,N 206	30	62	16	0.24
NU,NJ,NUP,N 207	35	72	17	0.3
NU,NJ,NUP,N 208	40	80	18	0.45
NU,NJ,NUP,N 209	45	85	19	0.52
NU,NJ,NUP,N 210	50	90	20	0.59
NU,NJ,NUP,N 211	55	100	21	0.69
NU,NJ,NUP,N 212	60	110	22	0.96
NU,NJ,NUP,N 213	65	120	23	1.2
NU,NJ,NUP,N 214	70	125	24	1.3
NU,NJ,NUP,N 215	75	130	25	1.4
NU,NJ,NUP,N 216	80	140	26	1.6
NU,NJ,NUP,N 217	85	150	28	2.1
NU,NJ,NUP,N 218	90	160	30	2.5
NU,NJ,NUP,N 219	95	170	32	3.2
NU,NJ,NUP,N 220	100	180	34	3.9

NU,NJ,NUP,N 305	25	62	17	0.28
NU,NJ,NUP,N 306	30	72	19	0.41
NU,NJ,NUP,N 307	35	80	21	0.56
NU,NJ,NUP,N 308	40	90	23	0.73
NU,NJ,NUP,N 309	45	100	25	1.02
NU,NJ,NUP,N 310	50	110	27	1.31
NU,NJ,NUP,N 311	55	120	29	1.74
NU,NJ,NUP,N 312	60	130	31	1.86
NU,NJ,NUP,N 313	65	140	33	2.54
NU,NJ,NUP,N 314	70	150	35	3.09
NU,NJ,NUP,N 315	75	160	37	3.34
NU,NJ,NUP,N 316	80	170	39	4.48
NU,NJ,NUP,N 317	85	180	41	5.25
NU,NJ,NUP,N 318	90	190	43	6.17
NU,NJ,NUP,N 319	95	200	45	7.05
NU,NJ,NUP,N 320	100	215	47	8.75

Bearing No.	Boundary Dimensions (mm)			Mass (kg) Approx
	d	D	B	
NU,NJ,NUP,N 2306	30	72	3271	0.6
NU,NJ,NUP,N 2307	35	80	31	0.85
NU,NJ,NUP,N 2308	40	90	33	1.1
NU,NJ,NUP,N 2309	45	100	36	1.5
NU,NJ,NUP,N 2310	50	110	40	1.9
NU,NJ,NUP,N 2311	55	120	43	2.4
NU,NJ,NUP,N 2312	60	130	46	3
NU,NJ,NUP,N 2313	65	140	48	4
NU,NJ,NUP,N 2314	70	150	51	4.4
NU,NJ,NUP,N 2315	75	160	55	5.4
NU,NJ,NUP,N 2316	80	170	58	6.2
NU,NJ,NUP,N 2317	85	180	60	7.4
NU,NJ,NUP,N 2318	90	190	64	8.4
NU,NJ,NUP,N 2319	95	200	67	10.4
NU,NJ,NUP,N 2320	100	215	73	13.5
NU,NJ,NUP,N 2322	110	240	80	17.5
NU,NJ,NUP,N 2324	120	260	86	22.5

Bearing No.	Boundary Dimensions (mm)			Mass (kg) Approx
	d	D	B	
RN 206	30	53.5	16	0.14
RN 207	35	61.8	17	0.2
RN 208	40	70	18	0.28
RN 306	30	62	19	0.26
RN 307	35	68.2	21	0.32
RN 308	40	77.5	23	0.43
RN 309	45	86.5	25	0.61
RN 310	50	95	27	0.8
RN 311	55	104.5	29	0.95
RN 312	60	113	31	1.1
RN 313	65	121.5	33	1.6
RN 314	70	130	35	1.9