

## Dalian Horton Co., Ltd. ---Bearings Catalogue

### Single Row Cylindrical Roller Bearings

#### Application

Typical applications: electric motors,  
 automotive applications, home appliances,  
 industrial equipment



#### Technical specification

Designations					Basic load rating KN		Principal dimensions						Speed ratings rpm.		Abutment and fillet dimensions			Weight
NU	NJ	NUP	N	NF	Cr	Cor	d	D	B	r	Ew	Fw	Grease	Oil	d(min)	d(max)	r	kg
NU2230E	NJ	NUP	-	-	635	930	150	270	73	3	-	182	2000	2400	163	257	2.5	19.9
NU330	NJ	NUP	N	NF	590	690		320	65	4	277	193	1800	2200	166	304	3	23.4
NU330E	NJ	NUP	N	-	715	855		320	65	4	-	193	1600	2000	166	304	3	26.8
NU230	NJ	NUP	N	-	1020	1400		320	108	4	-	193	1600	2000	166	304	3	44.6

Leo Lee Email: [leo@chinahorton.com](mailto:leo@chinahorton.com) [leo1981.lee@gmail.com](mailto:leo1981.lee@gmail.com) Website: [www.chinahorton.com](http://www.chinahorton.com)  
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NU2330E	NJ	NUP	-	-	1160	1600		320	108	4	-	193	1600	2000	166	304	3	47.5
NU430	NJ	NUP	N	-	930	1120		380	85	5	-	213	1600	2000		360	4	53.6
NU1032		-	N	-	238	340	160	240	38	2.1	220	180	2600	3200	171	229	2	5.81
NU232	NJ	NUP	N	NF	430	570		290	48	3	255	195	2200	2600	173	277	2.5	14.4
NU232E	NJ	NUP	N	-	500	665		290	48	3	-	195	1900	2200	173	277	2.5	15.5
NU2232	NJ	NUP	N	-	630	940		290	80	3	-	195	1900	2400	173	277	2.5	24.1
NU2232E	NJ	NUP	-	-	810	1190		290	80	3	-	193	1900	2400	173	277	2.5	25.4
NU332	NJ	NUP	N	NF	700	875		340	68	4	292	208	1700	2000	176	324	3	31.6
NU332E	NJ	NUP	N	-	860	1050		340	68	4	-	204	1500	1900	176	324	3	33
NU2332	NJ	NUP	N	-	1070	1520		340	114	4	-	208	1500	1900	176	324	3	52.8
NU2332E	NJ	NUP	-	-	1310	1820		340	114	4	-	204	1500	1900	176	324	3	56.5
NU1034		-	N	-	287	415	170	260	42	2.1	237	193	2400	2800	181	249	2	7.91
NU234	NJ	NUP	N	NF	475	635		310	52	4	272	208	2000	2400	186	294	3	17.7
NU234E	NJ	NUP	N	-	605	800		310	52	4	-	207	1800	2200	186	294	3	19.2
NU2234	NJ	NUP	N	-	715	1080		310	86	4	-	208	1800	2200	186	294	3	29.4
NU2234E	NJ	NUP	-	-	925	1330		310	86	4	310	205	1800	2200	186	294	3	31.5
NU334	NJ	NUP	N	NF	795	1010		360	72	4	-	220	1600	2000	186	344	3	37.5
NU2334	NJ	NUP	N	-	1220	1750		360	120	4	-	220	1400	1800	186	344	3	63.2
NU1036		-	N	-	355	510	180	280	46	2.1	255	205	2200	2600	191	191	2	10.2
NU236	NJ	NUP	N	NF	495	675		280	52	4	282	218	1900	2200	196	196	3	18.4
NU236E	NJ	NUP	N	-	625	850		320	52	4	-	217	1700	2000	196	196	3	20.0
NU2236	NJ	NUP	N	-	745	1140		320	86	4	-	218	1700	2000	196	196	3	30.6
NU2236E	NJ	NUP	-	-	1010	1510		320	86	4	-	215	1700	2000	196	196	3	32.5
NU336	NJ	NUP	N	NF	905	1150		380	75	4	328	232	1500	1800	196	196	3	43.5
NU2336	NJ	-	N	-	1380	1990		380	126	4	-	232	1300	1700	-	196	3	72.9

NU1038		-	N	-	365	535	190	290	46	2.1	265	215	2000	2600	201	201	2	10.7
NU238	NJ	NUP	N	NF	555	770		340	55	4	299	231	1800	2200	206	206	3	22.3
NU238E	NJ	NUP	N	-	695	955		340	55	4	-	230	1600	1900	206	206	3	24.0
NU2238	NJ	NUP	N	-	830	1290		340	92	4	-	231	1600	2000	206	206	3	37.2
NU2238E	NJ	NUP	-	-	1100	1670		340	92	4	-	228	1600	1900	206	206	3	39.5
NU338	NJ	NUP	N	NF	975	1260		400	78	5	345	245	1400	1700	210	210	4	50.0
NU2338	NJ	-	N	-	1520	222		400	132	5	-	245	1300	1600	-	210	4	84.9
NU1040		-	N	-	390	580	200	310	51	2.1	281	229	2000	2400	211	211	2	14.0
NU240	NJ	NUP	N	NF	620	865		360	58	4	316	244	1700	2000	216	216	3	26.6
NU240E	NJ	NUP	N	-	765	1060		360	58	4	-	243	1500	1800	216	216	3	28.6
NU2240	NJ	NUP	N	-	925	1440		360	98	4	-	244	1500	1800	216	216	3	44.7
NU2240E	NJ	NUP	-	-	1220	1870		360	98	4	-	241	1500	1800	216	216	3	47.5
NU340	NJ	-	N	NF	975	1270		420	80	5	360	260	1300	1600	220	220	4	56.8
NU2340	NJ	-	N	-	1510	2240		420	138	5	-	260	1200	1500	-	220	4	96.8

## Double Row Cylindrical Roller Bearing

### Application

The rollers of the cylindrical roller bearing are usually guided by two flanges of a ring. Because this assembly part composed of cage, roller and guide ring can be separated from another ring, the cylindrical roller bearing belongs to separable bearing. This type of bearing can be easily mounted and dismantled. Its advantages are obvious especially when there is interference fits between the inner, outer ring and the axis, housing.

This bearing is usually subjected to radial load, only the single-row bearing with inner& outer rings flanges



can bear small steady axial load or great intermittent axial load. It has a high requirement on the processing of the fitting parts such as axis and housing bore, etc. The main bearing types produced by KHZZ include: cylindrical roller bearing without inner or outer ring flange (NN type and NU type), four - row cylindrical roller bearing (FC type, FCD type , FCDP type, etc). This type of bearing is widely used in electric motor, chief axis of machine tool, speed reducer, oil driller , steel rolling mill etc

## Technical specification

Type No.	Principal dimensions					Basic load ratings		Speed ratings rpm.		Other dimensions				Corner dimension of contact surface			Weight
	d	D	B	r	Ew.Fw	Cr	Cor	Grease	Oil	d1	D1	b	k	da(min)	Da(max)	a(max)	kg
NN3032K	160	240	60	2.1	219	345	675	3800	3200	190.2				171	229	2	8.39
NN3032KTN1	160	240	60	2.1	219	345	335	3800	3200	190.2				171	229	2	7.86
NN3032K/W33	160	240	60	2.1	219	345	675	3000	2200	190.2		8.5	4.5	171	229	2	8.38
NN3032K/YB2	160	240	60	2.1	219	345	675	3000	2200	190.2				171	229	2	8.39
NN3032	160	240	60	2.1	219	345	675	3000	2200	190.2				171	229	2	8.38
NN3034K	170	260	67	2.1	236	435	860	3600	3000	196				181	249	2	12.9
NN3034/YA8	170	260	67	2.1	236	435	860	3000	2200	196				181	249	2	13.3
NN3036K	180	280	74	2.1	255	555	1090	3400	2800	218.2				191	269	2	16.9
NN3036	180	280	74	2.1	255	555	1090	2800	2000	218.2				191	269	2	16.9
4382936	180	250	69	2.3	201	337	703	2800	2000		228			191	239	2	9.8
NN3038K	190	290	75	2.1	265	565	1140	3200	2600	228.2				201	279	2	17.9
NN3038K/W33	190	290	75	2.1	265	565	1140	2600	1900	228.2				201	279	2	17.1
NN3038	190	290	75	2.1	265	565	1140	2600	1900	228.2				201	279	2	18
NNU4938B-W33	190	260	69	3	212	560	1250	2600	1900		236	9.5	5	201	249	2	11
NNU6038	190	290	180	2.1	219	1260	3200	2600	1900		257			201	279	2	43.6
NN3034K	200	310	82	2.1	282	675	1340	3000	2400	227.4				211	299	2	22

Leo Lee Email: [leo@chinahorton.com](mailto:leo@chinahorton.com) [leo1981.lee@gmail.com](mailto:leo1981.lee@gmail.com) Website: [www.chinahorton.com](http://www.chinahorton.com)

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NN3034	200	310	82	2.1	282	675	1340	2400	1900	227.4				211	299	2	22.1
NN3044K	220	340	90	3	310	795	1610	2800	2200	265.2				233	327	2.5	30.1
NN3044K/W33	220	340	90	3	310	795	1610	2200	1800	265.2		15	6	233	327	2.5	30
NN3044	220	340	90	3	310	795	1610	2200	1800	265.2				233	327	2.5	31
NN3048K	240	360	92	3	330	810	1690	2600	2000	285.2				253	347	2.5	32.7
NN3048	240	360	92	3	330	810	1690	2000	1700	285.2				253	347	2.5	31.6
482752U	260	360	80	2.1		605	1500	1600	1900		325	9.5	5	273	347	2.5	28.2
NN3056K	280	420	106	4	384	1060	2290	2200	1800	332.8				296	404	3	49.7
NN3056	280	420	106	4	384	1060	2290	1700	1400	332.8				296	404	3	52.3
3182160	300	460	118	4	418	1290	2790	1200	1500	360.4				316	444	3	76.2
3282160	300	460	118	4	418	1290	2790	1200	1500	360.4				316	444	3	77.9
31821/600	600	870	200	6	805	4050	9850	600	800	701				630	840	6	384
32821/600K	600	870	200	6	805	4050	9850	600	800	701		15	8	630	840	6	403
31821/630	630	920	212	7.5	850	4350	10600	550	750	738				660	890	6	438
32821/630K	630	920	212	7.5	850	4350	10600	550	750	738		15	8	660	890	6	460
NN3030K	150	225	56	2.1	206	330	650	4000	3400	178.8				161	214	2	7.7
NN3030/YA8	150	225	56	2.1	206	330	650	4000	3400	178.8				161	214	2	7.7
NN3030	150	225	56	2.1	206	330	650	3200	2400	178.8				161	214	2	7.75
NN3030/C9	150	225	56	2.1	206	330	650	3200	2400	178.8				161	214	2	7.75
NN3030/C9YA8	150	225	56	2.1	206	330	650	3200	2400	178.8				161	214	2	7.79
NN3030K/C91W33	150	225	56	2.1	206	330	650	3200	2400	178.8		8.5	4.5	161	214	2	7.7

## Four Row Cylindrical Roller Bearings

### Application

Four row cylindrical roller bearing is usually use in rolling mill's work roll or back-up roll. It mainly take much radial load , which is extensively used on the work roll of wire rod mill, section mill and bloomer mill , as well as the back-up roll of dressing machine , cold rolling mill and hot rolling mill .There are three kinds of structures: FC , FCD , FCDP . There are three grades for tolerance : 0 , 6 , 5.



### Technical specification

Designations	Principal dimensions					Basic load ratings		Speed ratings rpm		Weight
	d	D	B	Fw	rsmin	Cr	Cor	Grease	Oil	Kg
FC202870	100	140	70	111	1.5	220	480	3400	4000	3.2
FC2028104	100	140	104	111	1.5	310	770	3400	4000	4.79
FC202970	100	145	70	113	1.5	230	470	3400	4000	3.61
FCD2230120	110	150	120	122	1.5	347	736	3200	4000	6.17
EC223490	110	170	90	127	2	390	760	2800	3600	7.16
FC2234120	110	170	120	127	2	520	1160	2800	3400	9.89
FC243692	120	180	92	137	2	381	797	2600	3400	8.1
FC2436105	120	180	105	135	2	425	910	2600	3400	9.12
FC2640104	130	200	104	150	2	478	1006	2400	3000	12.3
FC2640125	130	200	125	149	2	630	1370	2400	3000	14
FC2643125	130	215	125	152.5	2	595	653	2200	2800	18.3
FC284280	140	210	80	156	2	500	970	2200	2800	9.4
FC2842106	140	210	106	158	2	540	1150	2200	2800	12.6

Leo Lee Email: [leo@chinahorton.com](mailto:leo@chinahorton.com) [leo1981.lee@gmail.com](mailto:leo1981.lee@gmail.com) Website: [www.chinahorton.com](http://www.chinahorton.com)  
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FC2842125	140	210	125	158	2	617	1440	2200	2800	14.9
FC2842155	140	210	155	158	2	790	1860	2200	2800	17.5
FC2942155	145	210	155	166	2	620	1740	2200	2800	18.4
FC2945156	145	225	156	169	2	760	1750	2000	2600	22.2
FC3045120	150	225	120	169	2	640	1370	2000	2600	22.4
FC3046156	150	230	156	174	2	850	2050	2000	2600	24.8
FC3050120	150	250	120	178	2	740	1570	2000	2600	24.3
FC3246130	160	230	130	180	2.1	690	1630	2000	2600	16.8
FC3246168	160	230	168	179	2.1	890	2270	2000	2600	22.1
FC3248124	160	240	124	183	2.1	670	1500	1900	2400	19.9
FC3248168	160	240	168	183	2.1	950	2330	1900	2400	28.7
FC3446130	170	230	130	188.5	2.1	610	1680	1900	2400	15.2
FC3446180	170	230	180	186	2.1	920	2690	1900	2400	21.1
FC3448130	170	240	130	190	2.1	680	1720	1800	2300	18
FC3450170	170	250	170	192	2.1	974	2430	1800	2200	28.6
FC3452120	170	260	120	195	2.1	780	1720	1800	2200	24.5
FC3452150	170	260	150	195	2.1	870	1980	1800	2200	28.1
FC3452170	170	260	170	195	2.1	1058	2516	1800	2200	33.8
FC3650120	180	250	120	200	2.1	610	1580	1800	2200	17.7
FC3650156	180	250	156	200	2.1	860	2310	1800	2200	22.8
FC3652120	180	260	120	202	2.1	710	1630	1800	2200	21.7
FC3652124	180	260	124	202	2.1	710	1630	1800	2200	22.6
FC3652168	180	260	168	202	2.1	990	2530	1800	2200	30.1
FC3656180	180	280	180	206	2.1	1170	2690	1700	2000	40.4
FC3658192	180	290	192	210	2.1	1190	2710	1600	2000	51.4

FC3852168	190	260	168	212	2.1	910	2680	1700	2000	30.3
FC3853124	190	265	124	213	2.1	660	1720	1700	2000	20.7
FC3854168	190	270	168	212	2.1	1040	2720	1700	2000	31.6
FC3854200	190	270	200	212	2.1	1210	3300	1700	2000	35
FC3856200	190	280	200	214	2.1	1240	3200	1700	2000	41.8
FC4054170	200	270	170	222	2.1	810	2460	1600	1900	28.3
FC4056170	200	280	170	222	2.1	1030	2730	1600	1900	32.1
FC4056188	200	280	188	222	2.1	1140	3120	1600	1900	36.5
FC4056200	200	280	200	222	2.1	1230	3420	1600	1900	37.5
FC4058192	200	290	192	226	2.1	1240	3250	1600	1900	44.4
FC4258192	210	290	192	234	2.1	1040	3245	1500	1800	39.9
FC4260170	210	300	170	234	2.1	1160	2950	1500	1800	38.1
FC4260210	210	300	210	234	2.1	1484	3674	1500	1800	51.1
FC4460192	220	300	192	242	2.1	1240	3560	1400	1700	41.2
FC4462192	220	310	192	246	2.1	1370	3830	1400	1700	47.6
FCDP4462192	220	310	192	246	2.1	1370	3830	1400	1700	46.2
FC4462210	220	320	210	248	2.1	1480	3780	14100	1700	55.1
FC4462225	220	310	225	245	2.1	1470	4160	1400	1700	52.4
FC4666170	230	330	170	260	2.1	1210	3210	1300	1600	47.4
FC4666206	230	330	206	260	2.1	1490	3930	1300	1600	61
FC4866220	240	330	220	264	2.1	1460	4220	1300	1600	56.4
FC4868192	240	340	192	266	2.1	1340	3480	1300	1600	59
FC4868220	240	340	220	266	2.1	1360	3600	1300	1600	66.3
FC4870220	240	350	220	270	2.1	1630	4260	1300	1600	70.7
FC4872220	240	360	220	272	2.1	1830	4600	1200	1500	82.1

FC5070220	250	350	220	278	3	1690	4730	1200	1500	68.5
FC5072200	250	360	200	282	3	1400	4120	1100	1400	70.1
FC5072220	250	360	220	282	3	1720	4750	1100	1400	77.1
FC5272192	260	360	192	288	3	1440	4120	1100	1400	61.2
FC5272200	260	360	200	288	3	1490	4310	1100	1400	63.2
FC5272220	260	360	220	288	3	1653	4436	1100	1400	70.8
FC5274200	260	370	200	292	3	1610	4400	1100	1400	71.1
FC5274220	260	370	220	292	3	1647	4800	1100	1400	79.3
FC5276280	260	380	280	295	3	2380	6940	1100	1400	114
FC5476230	270	380	230	298	3	1890	5360	1000	1300	81.4
FC5678220	280	390	220	312	3	1820	5270	1000	1300	84.8
FC5678240	280	390	240	312	3	1875	5710	1000	1300	92.9
FC5678275	280	390	275	312	3	2270	6610	1000	1300	108
FC5684280	280	420	280	318	4	2590	7190	1000	1300	140
FC5882240	290	410	240	320	4	2080	5970	950	1200	101
FC5884300	290	420	300	327	4	2840	8210	950	1200	145
FC6084240	300	420	240	332	4	2160	6370	900	1100	108
FCD6084300	300	420	300	332	4	2690	8020	900	1100	135
FC6488240	320	440	240	351	4	2140	6100	850	1000	108
FCD6488300	320	440	300	352	4	2720	8280	850	1000	157
FC6490240	320	450	240	355	4	2260	6280	850	1000	118
FC6492280	320	460	280	357	4	2840	8130	850	1000	160
FCD6492300	320	460	300	357	4	2940	8430	850	1000	164
FCD6492340	320	460	340	360	4	3350	10500	850	1000	195
FCD6496290	320	480	290	364	4	3170	8350	800	1000	192

FCD6496350	320	480	350	364	4	3210	9140	800	1000	228
FCD6692340	330	460	340	365	4	3190	9820	800	1000	178
FC6890250	340	450	250	364	4	2270	6630	800	1000	103
FC6892260	340	460	260	370	4	2340	6960	800	1000	124
FC6896350	340	480	350	378	4	3500	10740	750	950	210
FCD70100380	350	500	380	389	4	4030	12050	700	900	251
FCD70104300	350	520	300	401	4	3300	9070	700	900	223
FCD72102370	360	510	370	397	4	3930	11720	700	900	246
FCD72104380	360	520	380	405	4	4120	12520	700	900	274
FCD76108400	380	540	400	422	4	4300	12800	650	800	301
FCDP80112410	400	560	410	445	5	4823	15600			339
FCD80112410	400	560	410	445	5	4823	15600			330
FCD82112400	410	560	400	450	5	4900	16000			312
FCDP100144530	500	720	530	568	6	6200	19900	440	540	731
FCDP100160560	550	800	560	610	6	9360	26500			947
FCDP130180650	650	900	650	718	7.5	11680	41837			1306
FCDP146206750	730	1030	750	809	6	16000	55500			2048

## Single Row Tapered Roller Bearings

### Applications

Mainly used in motorcycle rear axle wheel hub, heavy machine tools' main shafts, big power reduction gears, axletree axle boxes, roller wheels of transportation devices, and the supporting rollers and working rollers of the rolling mills.



### Technical specification

Designations	Principal dimensions (mm)										Basic load ratings		Abutment and fillet dimensions								Calculate data				Speed ratings rpm.		Weight
	d	D	T	B	C	R1	R2	r 1	r 2	Cr	Cor	Da max	Db min	Da min	Da max	Db min	Ca min	Cb min	e	Y	Y0	a	grease	oil			
	140	190	32.5	30	26	2	2	1.5	1.5	140	257	142	149	164	183	174	9	6.5	0.27	2.2	0.22	28	1600	2200	2.43		
32028		210	45	45	34	2.5	2.5	2		300	560	154	10	183	202	204	4.5	11	0.46	1.3	0.72	46	1600	2200	5.84		
		210	45.5	42	36	2.5	2.5	2	2	251	442	155	10	186	202	202	4.5	9.5	0.37	1.6	0.89	42	1600	2200	4.94		
	150	210	38.5	36	31	2.5	2.5	3.7	2	199	384	165	160	191	202	201	9	7.5	0.27	2.2	1.21	33	1500	2000	4.56		
		225	48.5	45	38	3	3	2	2.5	254	454	167	12	198	216	214	4.5	11	0.39	1.5	0.85	46	950	1400	6.84		
	160	220	38.5	36	31	2.5	2.5	2.5	2	211	400	175	170	203	212	213	9	7.5	0.27	2.2	1.23	34	1500	2000	3.79		
		240	51.5	48	41	3	3	2.5	2.5	343	629	177	12	212	231	230	4.5	11	0.37	1.6	0.89	47	1100	1600	7.67		
	170	230	38.5	36	31	2.5	2.5	2	2	214	415	185	180	213	222	224	9	7.5	0.28	2.1	1.17	36	1400	1900	3.86		
	180	280	64.5	60	52	3	3	2.5	2.5	473	860	204	192	247	271	264	9	4.5	0.28	2.2	1.19	53	950	1400	13		

Leo Lee Email: [leo@chinahorton.com](mailto:leo@chinahorton.com) [leo1981.lee@gmail.com](mailto:leo1981.lee@gmail.com) Website: [www.chinahorton.com](http://www.chinahorton.com)  
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	190	290	64.5	60	52	3	3	2.5	2.5	473	882	214	12	255	281	277	4.5	13	0.37	1.6	0.89	58	1000	1500	15.28
	200	280	51.5	48	41	3	3	2.5	2.5	348	742	220	212	251	271	270	10	11	0.39	1.5	0.84	54	1000	1500	8.7
		280	51.5	48	41	3	3	2.5	2.5	348	742	220	12	251	271	270	4.5	11	0.39	1.5	0.84	54	1000	1500	8.86
		310	70.5	66	56	3	3	2.5	2.5	525	1040	229	12	270	301	294	4.5	15	0.39	1.5	0.84	65	950	1400	18.2
	220	300	51.5	48	41	3	3	2.5	2.5	354	835	310	232	342	291	361	10	11	0.39	1.5	0.84	66	900	1400	10.1
		340	76.5	72	62	4	4	3	3	709	1336	247	14	299	329	325	4.5	15	0.35	1.7	0.95	67	950	1400	23.3
	240	320	51.5	48	41	3	3	2.5	2.5	354	767	259	252	293	311	309	10	11	0.32	1.9	1.04	52	900	1300	10.8
		360	76.5	72	62	4	4	3	3	698	1414	268	14	316	349	340	4.5	15	0.31	1.9	1.05	65	950	1200	23.8
32048		360	76	76	57	4	4	3	3	698	1414	268	14	316	349	340	4.5	19	0.31	1.9	1.05	63	850	1200	24.9
	260	360	64.5	60	52	3	3	2.5	2.5	528	1187	286	272	325	351	344	13	13	0.3	2.0	1.09	60	850	1100	19.2
		400	87.7	82	71	5	5	4	4	912	1835	294	16	351	387	377	4.5	17	0.3	2.0	1.11	71	800	1100	37.8
	280	380	64.5	60	52	3	3	2.5	2.5	543	1257	305	292	344	371	364	13	13	0.32	1.9	1.03	64	800	1100	21.3
		420	87.7	82	71	5	5	4	4	987	1975	311	16	371	407	402	4.5	17	0.37	1.6	0.89	83	750	1000	39.6
	300	420	74.5	72	62	4	4	3	3	646	1807	330	314	379	409	400	13	15	0.28	2.1	1.17	67	700	950	30.2
		460	100.7	95	77	5	5	4	4	3850	10200	336	16	402	447	437	4.5	24	0.36	1.7	0.90	89	700	950	57
32972	360	480	76	76	57	4	4	4	4	879	2222	388	374	433	467	468	13	19	0.46	1.3	0.72	97	500	630	38.5

## Double Row Tapered Roller Bearings

### Applications

Mainly used in motorcycle rear axle wheel hub,  
 heavy machine tools' main shafts, big power reduction gears,  
 axletree axle boxes, roller wheels of transportation devices,  
 and the supporting rollers and working rollers of the rolling mills.



### Technical specification

Designations	Principal dimensions							Basic load ratings		Calculate data				Speed ratings rpm.		Weight kg
	d	D	T	C	B	r(min)	rl(min)	Cr	Cor	e	Y1	Y2	Y0	Grease	Oil	
	140	210	95	75	42	2.5	0.6	455	950	0.35	1.94	2.88	1.89	1200	1700	8.36
352128	150	225	115	90	50	2.5	1	580	1180	0.34	2	2.98	1.96	1200	1700	15.5
		210	80	62	36	2.5	0.6	350	795	0.27	2.48	3.69	2.42	1200	1500	9.32
352130	160	250	138	112	60	2.5	1	785	1560	0.25	2.74	4.08	2.68	1100	1500	25.8
		220	82	65	36	2.5	0.6	375	860	0.27	2.51	3.74	2.45	1100	1500	8.15
		240	115	90	48	3	0.8	680	1330	0.35	1.94	2.88	1.89	1100	1400	16.5
352132		270	150	120	70	2.5	1	880	1720	0.36	1.86	2.76	1.81	1000	1400	18.3
	170	270	150	120	70	2.5	1	880	1720	0.36	1.86	2.76	1.81	1000	1400	8.03
		230	82	65	36	2.5	0.6	380	890	0.28	2.39	3.56	2.34	1000	1400	8.11

Leo Lee Email: [leo@chinahorton.com](mailto:leo@chinahorton.com) [leo1981.lee@gmail.com](mailto:leo1981.lee@gmail.com) Website: [www.chinahorton.com](http://www.chinahorton.com)  
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		260	120	95	54	3	0.8	685	1550	0.31	2.18	3.24	2.13	1000	1300	20.4
		260	120	95	54	3	0.8	685	1550	0.31	2.18	3.24	2.13	1000	1300	20
352034	180	280	150	120	66	2.5	1	975	2000	0.38	1.78	2.65	1.74	950	1300	35.6
		250	95	74	42	2.5	0.6	490	1000	0.37	1.84	2.74	1.8	1000	1300	13
		280	134	108	60	3	0.8	855	1810	0.28	2.43	3.61	2.37	940	1300	28.5
352136		300	164	134	72	3	1	1090	2350	0.26	2.46	3.93	2.58	890	1200	39.9
	190	340	180	140	83	5	1.1	1550	2860	0.35	1.96	2.91	1.91	840	1100	71.9
		260	95	75	42	2.5	0.6	525	1270	0.38	1.76	2.62	1.72	940	1300	13.3
		290	134	104	60	3	0.8	845	1860	0.37	1.83	2.72	1.79	890	1200	28.8
352138	200	320	170	130	76	3	1	1200	2400	0.31	2.15	3.2	2.1	840	1100	52
		280	110	85	48	3	0.8	610	1530	0.39	1.72	2.56	1.68	900	1200	18.1
		310	152	120	66	3	0.8	910	2090	0.39	1.72	2.56	1.68	840	1100	39.1
352140		340	184	150	82	3	1	1650	3400	0.25	2.74	4.08	2.68	800	1100	63.8
352240	205	360	218	98	174	5	1.1	2140	4350	0.41	1.66	2.47	1.62	800	1100	93.3
	220	320	150	110	75	3.7	1.3	730	1610	0.39	1.72	2.56	1.68	940	1100	40.2
		300	110	88	48	3	0.8	640	1720	0.31	2.18	3.24	2.13	810	1100	21.2
		340	165	130	72	4	1.1	1250	2730	0.35	1.95	2.9	1.91	760	1000	47.7
352144	225	370	195	150	88	4	1.1	1530	3200	0.37	1.83	2.72	1.79	760	1000	76.3
	230	360	146.5	111	73.25	3	1.1	1160	2290	0.36	1.87	2.79	1.83	760	1000	48.2
	240	355	145	110	72.5	6	2.3	1070	2310	0.36	1.87	2.79	1.83	760	1000	43.6
		320	105	82	48	3	0.8	605	1590	0.32	2.12	3.15	2.07	760	1000	22.3
		320	105	87	48	3	0.8	605	1590	0.32	2.12	3.15	2.07	760	1000	23
		320	110	87	48	3	1	605	1590	0.32	2.12	3.15	2.07	760	1000	23.2
		360	165	130	72	4	1.1	1330	2890	0.31	2.15	3.2	2.1	690	920	52.8
352148	260	400	210	163	95	3.7	1.3	1870	4050	0.31	2.18	3.24	2.13	630	840	98.1

		360	134	108	60	3	0.8	915	2500	0.3	2.23	3.32	2.18	670	900	37.9
		360	134	108	60	3	0.8	915	2500	0.3	2.23	3.32	2.18	670	900	99.9
		400	186	146	82	5	1.1	1590	3750	0.29	2.31	3.45	2.26	630	840	79.3
352152		440	225	180	100	4	1.1	2190	4750	0.24	2.84	4.23	2.78	580	770	124
	280	380	134	108	60	3	0.8	935	2650	0.32	2.1	3.13	2.05	620	820	44
		420	186	146	82	5	1.1	1720	4000	0.37	1.83	2.72	1.79	580	770	81.5
	300	420	160	128	72	4	1	1350	3650	0.28	2.39	3.56	2.34	580	770	60.8
		460	210	165	95	5	1.3	2041	4823	0.36	1.85	2.76	1.81	560	740	118
		500	200	160	90	6	3	2090	4450	0.32	2.12	3.15	2.07	530	710	142
351160		500	205	152	90	5	1.5	2090	4450	0.32	2.12	3.15	2.077	530	710	144
	305.07	500	200	70	200	6.4	4.8	1700	3550	0.79	0.854	1.27	0.835	530	710	122
	320	480	151	121	66.5	5	1.5	1700	3550	0.32	2.08	3.1	2.04	530	710	88.9
352064		480	220	168	100	5	1.1	2310	5750	0.46	1.47	2.19	1.44	530	710	134
351168	340	460	160	128	72	4	1.1	1400	4050	0.3	2.15	3.2	2.1	500	660	71
		580	242	170	106	5	1.5	2820	6000	0.42	1.6	2.38	1.56	460	620	235
	360	480	160	128	72	4	1	1490	2240	0.33	2.05	3.05	2	510	680	74.7
351172		600	242	170	106	5	1.5	3100	6800	0.44	0.54	2.3	1.51	400	520	221
	380	520	145	105	65	4	1.1	1510	3800	0.38	1.77	2.64	1.73	530	710	78.8
351176		620	242	170	106	5	1.5	3100	6850	0.46	1.47	2.18	1.43	410	540	250
	400	650	206	150	102	6	2.5	3300	7400	0.41	1.66	2.47	1.63	360	480	279
	420	620	255	180	90	4.7	1.8	2560	5550	0.41	1.64	2.44	1.6	360	480	191
		700	224	86	224	6	6	4134	9481	0.32	2.12	3.15	2.07	360	480	382
351184		700	275	200	122	6	2.5	4025	9146	0.32	2.12	3.15	2.07	360	480	376
	480	650	180	130	78	5	1.5	1950	5150	0.42	1.61	2.4	1.58	360	480	159
	500	420	236	180	100	6	2.5	3250	8150	0.32	2.08	3.1	2.04	410	540	276

		670	180	130	78	5	1.5	1340	6200	0.43	1.55	2.31	1.52	350	460	158
		670	180	130	78	5	1.5	2360	6700	0.43	1.55	2.31	1.52	350	460	156
	501.65	711.2	250.825	106.363	250.825	3.2	6.4	4500	13400	0.35	1.92	2.86	1.88	340	440	323
	510.13	800	285	100	285	5	8	4950	1250	0.89	0.763	1.14	0.746	330	430	532
	530	710	190	136	82	5	1.5	2430	6300	0.39	1.73	2.57	1.69	320	420	176
		730	250	104	250	6	6	4600	13400	0.34	2	2.97	1.95	320	420	323
	570	750	240	100	240	6	6	3500	11800	0.5	1.36	2.02	1.33	310	410	287
	600	800	205	156	90	5	1.5	3100	9050	0.33	2.05	3.05	2	290	390	247
	635	939.8	304.8	110	304.8	3.3	6.4	5400	9400	0.83	0.818	1.22	0.8	280	380	721
	710	950	240	175	106	6	2.5	4300	13200	0.46	1.47	2.19	1.44	250	320	445
	750	1000	255	190	112	6	2.5	4900	15100	0.45	1.5	2.24	1.47	230	310	535
		1000	264	194	112	6	2.5	4850	15600	0.45	1.5	2.24	1.47	230	310	546
	800	1060	270	214	110	6	2.5	6250	15200	0.35	1.93	2.87	1.88	220	300	606
	850	1120	268	188	118	6	2.5	6250	18700	0.46	1.46	2.18	1.43	210	270	645
	900	1180	275	205	122	6	2.5	6950	21300	0.37	1.8	2.69	1.76	200	260	763
	1120	1460	335	250	158	7.5	3	9000	29500	0.35	1.93	2.87	1.88	160	210	1350

## Four Row Tapered Roller Bearing

### Applications

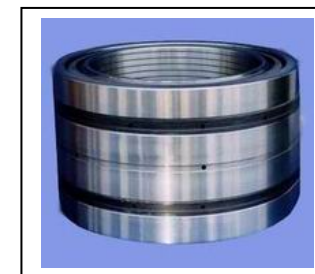
Four row tapered roller bearing is one of the main roll bearings , including cylindrical bore and taper bore.

Four row tapered roller bearing with cylindrical bore called as TQO . It's make up of two inner rings , three outer rings , inner space ring ,outer space ring ,taper rollers and retainer .It can take radial load as well as axial load at the same time.

It is usually used for four high mill's work roll , back-up roll and the roller of breaking down mill and beam mill .

Usually which work with the axle journal not tightly

Four row tapered roller bearing with tapered bore is developing on basis of TQO bearings. The frequent appeared structure is the type of TQITS . Because inner bore have conical degree, so it can work with axis journal tightly , avoiding the squirm on the surface of roller neck . Compared with TQO, it's much more complex in use and pretty difficult in producing . So, it can only use in high speed and high precision roll



### Technical specification

Designations	Principal dimensions (mm)						Basic load ratings		Weight kg
	d	D	B	T	r (min)	rl (min)	Cr	Cor	
382930	150	210	165	165	2.5	2	600	1590	21.2
	150	225	136	136	3	2.5	540	1460	17.7
382034	170	260	230	230	3	2.5	1270	3290	43
	180	280	180	180	3	2.5	835	2540	39.6
382040	200	310	200	200	3	2.5	1970	1520	55.6
	200	310	275	275	3	2.5	1760	4780	80.7
	205	320	205	205	4	3	1060	2850	58.8

382044	220	340	305	305	4	3	1600	3200	101
382048	240	360	310	310	4	3	2110	5610	90.5
	250	460	270	270	5	4	2250	6400	192
382952	260	360	265	265	3	2.5	1760	5220	77.8
	260	400	255	255	3.7	7.5	1480	4950	117
382052	260	400	345	345	5	4	2710	7140	153
	260	440	330	284	3.7	1.5	3235	8563	140
	260	440	300	300	2	5	2670	5850	182
	280	420	250	250	5	5	1540	5300	119
382056	280	420	345	345	5	4	2150	4530	191
381156	280	460	324	324	5	4	2840	7290	200
382960	300	420	300	300	4	3	2330	7210	130
	300	420	310	310	4	3	2020	8100	134
382060	300	460	390	390	5	4	3850	10200	232
	300	500	350	350	5	4	2730	8900	280
	320	460	380	380	6	5	3100	8000	210
382064	320	480	390	390	5	4	3180	9330	234
382968	340	460	310	310	4	3	2480	8100	147
381068	340	520	325	325	5	4	3200	8200	247
381168	340	580	425	425	5	4	4580	11700	441
382972	360	480	310	310	4	3	2687	8920	175
	360	480	375	375	4	4	2550	11800	197
381072	360	540	325	325	5	4	3360	8870	248
381172	360	600	420	420	6	6	7900	5600	388
	380	550	330	350	5	5	2490	9540	273

	380	620	388	388	6	6	3450	11600	443
381176	380	620	420	420	5	4	4710	12300	485
	395	545	268.7	288.7	3.7	7.5	2130	6500	191
	400	540	280	280	3.7	7.5	2450	6500	187
381080	400	600	356	356	5	4	4160	10400	317
381180	400	650	456	456	6	5	5100	9030	595
381184	420	700	480	480	6	5	5100	18200	749
	440	620	454	454	6	6	6050	18800	432
	440	650	355	355	6	6	3350	12100	385
381992	460	620	310	310	5	4	3390	10200	173
	460	650	474	474	6	6	4500	20000	506
381996	480	650	338	338	5	5	2450	5400	301
381096	480	700	420	420	6	5	5800	16900	536
381196	480	790	530	530	7.5	6	3390	10500	1020
3810/500	500	720	420	420	6	5	4250	9120	565
	600	800	365	365	5	5	4000	18100	489
3819/600	600	800	380	380	5	4	8500	18900	536
	600	870	480	480	6	6	8370	25400	992
3811/600	600	980	650	650	7.5	6	12700	36700	1970
	630	850	418	418	6	6	6440	19800	720
	630	920	515	515	7.5	7.5	9170	26800	1158
	650	1030	560	560	7.5	12	15000	42000	1735
	630	1030	670	670	7.5	12	16000	39300	1770
	710	900	410	410	3	6	5350	27500	650
	750	1220	840	840	9.5	8	16100	68500	3986

## Spherical Roller Bearing

### Applications

Typical applications: injection molding machines, crane hooks, vertical pumps



### Technical specification

Designations		Principal dimensions				The other dimensions				Interface and chamfer dimension			Basic load ratings		Speed ratings rmp		weight
		d	D	B	rsmin	d2	D1	b	k	da(min)	Da(max)	ra(max)	cr	cor	grease	oil	
23020CA		100	150	37	1.5	116	135			110	140	2			2000	2400	10.3
23120CA	23120CA/W33		165	52	2	121	145	5.5	3	110	155	2	287	510	2000	2800	2.51
22220C			180	46	2.1	119	156			112	168	2	277	425	2200	2800	4.42
22220CA	22220CA/W33		180	46	2.1	124	156	8.3	3	112	168	2	277	425	2200	3000	5.37
22220CAF3	22220CAF3		180	46	2.1	124	156			112	168	2	277	425	2200	3000	5.18
22220CAK	22220CAK/W33		180	46	2.1	124	156	8.3	3	112	168	2	277	425	2200	3000	5.10

Leo Lee Email: [leo@chinahorton.com](mailto:leo@chinahorton.com) [leo1981.lee@gmail.com](mailto:leo1981.lee@gmail.com) Website: [www.chinahorton.com](http://www.chinahorton.com)  
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23220CA	23220CA/W33		180	60.3	2.1	125	153	9.5	4	112	168	2	400	570	1700	30000	4.96
23220CAK/W33	23220CAKF3/W33		180	60.3	2.1	125	153	9.5	4	112	168	2	400	570	1700	2200	6.58
22320C	22320CK2		215	73	3	127	179			114	201	2.5	540	815	1700	2200	6.21
22320CA	22320CA/W33		215	73	3	138	179	11.1	5	114	201	2.5	540	815	1700	2200	13.8
22320CAF3	223220CAKF3		215	73	3	138	179			114	201	2.5	540	815	1700	2200	13.8
22320CAK	22320CAK/W33		215	73	3	138	179	11.1	5	114	201	2.5	540	815	1700	2200	13.4
23121CA	23121CAL	105	175	56	2	127	151			115	165	2	365	550	1900	2200	13.8
23022CA	23022CA/W33	110	170	45	2	128	150	7.5	3	120	160	2	253	460	2200	2700	5.48
3022CAF3	23022CAF3/W33		170	56	2	128	150	7.5	3	120	4160	2	253	460	2200	3000	3.54
23122CA	23122CAF3		180	69	2	132	156			120	170	2	325	580	1900	3000	3.50
24122C/W24			180	69	2	133	153		6	120	170	2	435	400	1000	2600	5.73
24122CA	24122CA/W33		180	53	2	131	153	5.5	2.5	120	170	2	425	750	1000	1400	6.90
22222C	22222C/W33		200	53	2.1	133	173	8.3	4	122	188	2	385	625	2000	1400	6.92
22222CK	22222CK/W33		200	53	2.1	133	173	8.3	4	122	188	2	385	625	2000	2800	7.27
22222CA	22222CA/W33		200	53	2.1	139	173	8.3	4	122	188	2	345	545	2000	2800	7.24
22222CAF3			200	53	2.1	139	173			122	188	2	345	545	2000	2800	7.43
22222CAK	22222CAK/W33		200	69.8	2.1	139	173	8.3	4	122	188	2	345	545	2000	2800	7.37
23222CA	23222CA/W33		200	69.8	2.1	138	168	12	5	122	188	2	490	720	1600	2800	7.25
23222CAF3	23222CAF3/W33		200	69.8	2.1	138	168	12	5	122	188	2	490	720	1600	2000	10.1
23222CAK	232222CAK/W33		200	69.8	2.1	138	168	12	5	122	188	2	490	720	1600	2000	10.0
23222CAKF3			200	80	2.1	138	168			122	188	2	490	720	1600	2000	9.83
22322C	22322CK		240	80	3	140	197			124	226	2.5	630	955	1600	2000	9.77
22322CA	22322CA/W33		240	80	3	151	197	13.9	6	124	226	2.5	630	955	1600	2000	18.9
22322CAF3	22322CAKF3		240	80	3	151	197			124	226	2.5	630	955	1600	2000	18.9
222322CAK	22322CAK/W33		240	46	3	151	197	13.9	6	124	226	2.5	630	955	1600	2000	18.7

Leo Lee Email: [leo@chinahorton.com](mailto:leo@chinahorton.com) [leo1981.lee@gmail.com](mailto:leo1981.lee@gmail.com) Website: [www.chinahorton.com](http://www.chinahorton.com)  
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13024C	23024CC	120	180		2	134	162			130	170	2	263	495	2000	2000	18.5
23024CK		120	180	46	2	134	162			130	170	2	263	495	2000	2800	4.19
23024CA	23024CA/W33		180	46	2	139	162	5.5	3	130	170	2	263	495	2000	2800	4.44
23024CAK			180	46	2	139	162			130	170	2	263	495	2000	2800	4.42
24024CA	24024CA/W33		180	60	2	139	158	5.5	4	130	170	2	325	660	1600	2800	5.83
2312CA/W33	23124CAK/W33		200	62	2	146	174	5.5	3	130	190	2	405	815	1800	2000	12.4
24124CA	24124CA/W33		200	80	2	146	167	5.5	3	130	190	2	495	925	900	2400	10.6
24124CAF3			200	80	2	146	167			130	190	2	495	925	900	1200	10.5
22224C	22224CK		215	58	2.1	143	187			132	203	2	445	735	1900	1200	10.3
22224CA	22224CAF3		215	58	2.1	149	187			132	203	2	425	680	1900	2600	9.87
22224CAK	22224CAK/W33		215	58	2.1	149	187	11.1	4	132	203	2	425	680	1900	2600	9.76
22224CAKF3	2222CAKF3/W33		215	58	2.1	149	187	11.1	4	132	203	2	425	940	1900	2600	9.68
23224CA	23224CA/W33		215	76	2.1	150	182	8.3	5	132	203	2	535	940	1500	2600	12.1
23224CAF3/W33			215	76	2.1	150	182	8.3	5	132	203	2	535	940	1500	1900	12.0
23224CAK/W33	23224CAKF3/W33		215	76	2.1	150	182	8.3	5	132	203	2	535	1160	1500	1900	11.9
22324C	22324CK		260	86	3	154	218			134	246	2.5	780	1160	1400	1900	23.8
22324CA	22324CA/W33		260	86	3	165	215	13.9	6	134	246	2.5	720	1100	1400	1800	23.3
22324CAF3	22324CAK		260	86	3	165	215			134	246	2.5	720	1100	1400	1800	23.1
22324CAKF3	22324CAKF3/W33		260	86	3	165	215	13.9	6	134	246	2.5	720	1100	1400	1800	22.8
23026CA	23026CA/W33	130	200	52	2	153	179	9.5	4	140	190	2	340	350	1900	1800	7.04
23026CAF3	23026CAF3/W33		200	52	2	153	179	9.5	4	140	190	2	340	350	1900	2600	6.75
23026CAK			200	52	2	153	179			140	190	2	340	350	1900	2600	6.68
23026CAKF3	23026CAKF3/W33		200	52	2	153	179	9.5	4	140	190	2	340	350	1900	2600	6.57
23126C/W33			210	64	2	148	183	8.3	4	140	200	2	430	790	1700	2600	9.56
23126CA	23126CA/W33		210	64	2	156	183	8.3	4	140	200	2	430	790	1700	2200	10.7

23126CAKF3/W33			210	64	2	156	183	8.3	4	140	200	2	430	790	1700	2200	10.1
22226C/W33			230	64	3	153	200	10	5	144	216	2.5	490	805	1800	2200	11.3
22226CA	22226CA/W33		230	64	3	162	200	10	5	144	216	2.5	490	805	1800	2400	12.4
22226CAK	22226CAK/W33		230	64	3	162	200	10		144	216	2.5	490	805	1800	2400	12.2
22226CAKF3			230	64	3	162	200	12	5	144	216	2.5	490	805	1800	2400	12.1
23226CA	23226CA/W33		230	80	3	161	194	12	5	144	216	2.5	670	1020	1300	1700	15.9
23226CAF3	23226CAF3/W33		230	80	3	161	194	12	5	144	216	2.5	670	1020	1300	1700	15.8
23226CAF3HAC9SO W/20X			230	80	3	161	194			144	216	2.5	670	1020	1300	1700	15.8
23226CAK	23226CAKF3		230	80	3	161	194			144	216	2.5	670	1020	1300	1700	15.9
22326CA	22326CA/W33		280	93	4	178	232	16.7	6	148	262	3	840	1300	1300	1700	18.3
22326CAF3	22326CAF3/W33		280	93	4	178	232	16.7	6	148	262	3	840	1300	1300	1700	18.0
22326CAK	22326CAK/W33		280	93	4	178	232	16.7	6	148	262	3	840	1300	1300	1700	18.0
22326CAQ1/HA		140	280	93	4	178	232			148	262	3	965	1500	1300	1700	18.1
23028CA	23028CA/W33		210	53	2	162	188	8.3	4.5	150	200	2	363	706	1800	1700	6.70
23028CAF3			210	53	2	162	188			150	200	2	363	706	1800	2400	6.68
23028CAK	23028CAKF3		210	53	2	162	188			150	200	2	363	706	1800	2400	6.50
23128CA	23128CA/W33		225	68	2.1	166	196	8.3	5	152	213	2	490	935	1600	2400	10.9
24128CA	24128CAF3		225	85	2.1	165	192			152	213	2	580	1150	850	2000	13.5
24128CAK30/W33			225	85	2.1	165	192	8.3	4.5	152	213	2	580	1150	850	1100	13.2
22228CA	22228CA/W33		250	68	3	176	218	11.1	5	154	236	2.5	560	930	1700	1100	16.2
22228CAF3	22228CAF3/W33		250	68	3	176	218	11.1	5	154	236	2.5	560	930	1700	2200	15.6
22228CAK	22228CAK/W33		250	68	3	176	218	11.1	5	154	236	2.5	560	930	1700	2200	15.0
22228CAKF3/W33			250	68	3	176	218	11.5	5	154	236	2.5	560	930	1700	2200	14.8
23228CA/W33	23228CAF3/W33		250	88	3	173	215	15	6	154	236	2.5	910	1365	1200	2200	19.7

Leo Lee Email: [leo@chinahorton.com](mailto:leo@chinahorton.com) [leo1981.lee@gmail.com](mailto:leo1981.lee@gmail.com) Website: [www.chinahorton.com](http://www.chinahorton.com)  
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23228CAK/W33			250	88	3	173	215	15	6	154	236	2.5	910	1365	1200	1600	19.3
22328C			300	102	3.7	177	249			158	282	3	1210	1950	1100	1600	35.5
22328CA	22328CA/W33		300	102	4	191	249	16.7	7	158	282	3	1210	1950	1100	1500	36.2
22328CAF3	22328CAQ1/HA		300	102	4	191	249			158	282	3	1210	1950	1100	1500	35.9
22328CAK	22328CAK/W33		300	102	4	191	249	16.7	7	158	282	3	1210	1950	1100	1500	36.2
23030C	23030CK	150	225	56	2.1	168	201			162	213	2	400	795	1700	2200	7.44
23030CA	23030CA/W33		225	56	2.1	174	201	8.3	4.5	162	213	2	400	795	1700	2200	8.01
23030CAF3			225	56	2.1	174	201			162	213	2	400	795	1700	2200	7.96
24030CA/W33	24030CAK30/W33		225	75	2.1	175	196	5.5	3	162	213	2	500	1050	1300	1700	9.39
23130C/W33			250	80	2.1	173	212	11.1	5	162	238	2	745	685	1400	1800	16.9
23130CA	23130CA/W33		250	80	2.1	182	216	11.1	5	162	238	2	745	685	1400	1800	16.5
23130CAF3	23130CAF3/W33		250	80	2.1	182	216	11.1	5	162	238	2	745	685	1400	1800	16.4
23130CAK	23130CAKF3/W33		250	80	2.1	182	216	11.1	5	162	238	2	745	685	1400	1800	16.4
22230C/W33			270	73	3	179	234	12	6	164	256	2.5	610	1000	1600	2000	18.6
22230CA	22230CA/W33		270	73	3	189	234	12	6	164	256	2.5	630	1050	1600	2000	18.7
22230CAF3	22230CAK		270	73	3	189	234			164	256	2.5	630	1050	1600	2000	18.5
232230C			270	96	3	177	228			164	256	2.5	950	1550	1100	1500	25.7
23230CA	232230CA/W33		270	96	3	188	228	11.1	6	164	256	2.5	950	1550	1100	1500	26.6
22330CA	22330CA/W33		320	108	4	203	265	16.7	9	168	302	3	1120	1810	1000	1400	41.5
22330CAK	22330CAKF3		320	108	4	203	265			168	302	3	1120	1810	1000	1400	41.1
23032C	23032CK	160	240	60	2.1	180	216			172	228	2	445	875	1700	2200	8.86
23032CA	23032CA/W33		240	60	2.1	186	216	8.3	5	172	228	2	445	875	1700	2200	10
23032CAF3			240	60	2.1	186	216			172	228	2	445	875	1700	2200	9.97
24032CA/W33	24032CAF3/W33		240	80	2.1	183	209	8.3	5	172	228	2	570	1210	1100	1500	13.2
24032CAK30F3	24032CAK30/W33		240	80	2.1	183	209	8.3	5	172	228	2	570	1210	1100	1500	13.2

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23132CA	23132CA/W33		270	86	2.1	195	234	13.9	6	172	228	2	764	1430	1300	1700	21.9
21332CVAF3	23123CAK		270	86	2.1	195	234			172	258	2	764	1430	1300	1700	21.9
24132CA/HAC9SOW 20X			270	109	2.1	193	225	8.3	4	172	258	2	1020	1690	700	900	23.4
24132CA/W33	24132CA/W33X		270	109	2.1	193	225	8.3	4	172	258	2	866	1690	700	900	24.6
22232CA	22232CAF3		290	80	3	201	249			174	276	2.5	750	1300	1500	1900	24.6
22232CAK			290	80	3	201	249			174	276	2.5	750	1300	1500	1900	24.1
23232C	23232C/W33		290	104	3	189	244	13.9	7		276	2.5	1100	1760	1000	1400	30.0
23232CA	23232C/W33		290	104	3	200	244	13.9	7	174	276	2.5	955	1770	1000	1400	30.2
23232CAK	23232CAK/W33		290	104	3	200	244	13.9	7	174	276	2.5	955	1770	1000	1400	29.2
23232CK/W33			290	104	3	189	244	13.9	7	174	276	2.5	1100	1760	1000	1400	29.0
22332C			340	114	4	201	284			178	322	3	1270	2050	950	1300	51.8
22332CA	22332CAK		340	114	4	216	284			178	322	3	1270	2050	950	1300	52.8
22332CAF3	22332CAF3/W33		340	114	4	216	284	16.7	7	178	322	3	1270	2050	950	1300	52.5
22332CAKF3/W33			340	114	4	216	284	16.7	7	178	322	3	1270	2050	950	1300	52.5
23034C	23034CK	170	260	67	2.1	192	231			182	248	2	555	1090	1600	2000	14.2
23034CA	23035CA/W33		260	67	2.1	198	231	11.1	5	182	248	2	555	1090	1600	2000	14.1
23034CAF3	23034CAK		260	67	2.1	198	231			182	248	2	555	1090	1600	2000	14.0
24034CA/W33			260	90	2.1	198	227	8.3	4	182	248	2	705	1500	1000	1400	17.8
23134CA			280	88	2.1	204	243			182	268	2	730	1390	1200	1600	26.1
23134CAK	23134CAKF3		280	88	2.1	204	243			182	268	2	730	1390	1200	1600	24.6
24134CA/HCW33YA2			280	109	2.1	203	237	8.3	5	182	268	2	915	1830	670	850	24.7
24134CA/W33			280	109	2.1	203	237	8.3	5	182	268	2	915	1830	670	850	24.8
22234CA	22234CA/W33		310	86	4	215	268	16.7	6	188	292	3	845	1450	1300	1700	26.8
22234CAK	23234CAK/W33		310	86	4	215	268	16.7	6	188	292	3	845	1450	1300	1700	26.2

Leo Lee Email: [leo@chinahorton.com](mailto:leo@chinahorton.com) [leo1981.lee@gmail.com](mailto:leo1981.lee@gmail.com) Website: [www.chinahorton.com](http://www.chinahorton.com)  
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23234CA	23234CAF3/W33		310	110	4	214	261	13.9	7	188	292	3	1070	1930	950	1300	38.0
22334C/YA7			360	120	4	211	299			188	342	3	1320	2120	950	1300	59.7
22334CA	22334CA/W33		360	120	4	231	299	16.7	7	188	342	3	1320	2120	950	1300	62.6
23936CAF3/W33			250	52	2	204	230	9.5	4	190	240	2	430	830	1700	2200	7.34
23036CA	23036CA/W33		280	74	2.1	214	247	13.9	7.5	192	268	2	630	1280	1400	1800	17.7
23036CAF3			280	74	2.1	214	247			192	268	2	630	1280	1400	1800	17.6
24036CA	24036CA/W33		280	100	2.1	210	242	8.3	4	192	268	2	835	1750	950	1300	26.6
24036CAF3/W33	24036CAK30F3/W33		280	100	2.1	210	242	8.3	4	192	268	2	835	1750	950	1300	26.6
23136CA	23136CA/W33		300	96	3	216	259	13.9	6	194	286	2.5	900	1720	1100	1500	27.6
23136CAF3	23136CAK		300	96	3	216	259			194	286	2.5	900	1720	1100	1500	27.0
24136CA	24136CA/W33		300	118	3	212	252	11.1	6	194	286	2.5	1020	2030	630	800	33.0
24136CAQ1			300	118	3	212	252			194	286	2.5	1020	2030	630	800	33.0
22236CA	22236CA/W33	180	320	86	4	224	278	16.7	6	198	302	3	895	1550	1300	1700	29.4
22236CAF3	22236CAQ1		320	86	4	224	278	302		198	302	3	895	1550	1300	1700	29.2
22236CAK	22236CAKF3		320	86	4	224	278	302		198	302	3	895	1550	1300	1700	29.3
23236CA			320	112	4	222	271	302		198	302	3	1160	2130	900	1200	38.7
23236CA/HCW33	23236CA/HCW33YA2		320	112	4	222	271	302	7	198	302	3	1160	2130	900	1200	38.6
23236CAF3	23236CAF3/W33		320	112	4	222	271	302	7	198	302	3	1160	2130	900	1200	38.5
23236CAK/W3	23236CAKF3/W33		320	112	4	222	271	302	7	198	302	3	1160	2130	900	1200	38.4
22336CA	22336CA/W33		380	126	4	242	316	362	8	198	362	3	1470	2400	900	1200	72.2
22336 CAF3/W33	22336CA		380	126	4	242	316	362	8	198	362	2	1470	2400	900	1200	71.3
23038C		190	290	75	2.1	215	259	278		202	278	2	700	1450	1300	1700	16.9
23038CA	23038CA/W33		290	75	2.1	224	259	278	5	202	278	2	700	1450	1300	1700	17.3
23038CAF3			290	75	2.1	224	259	278		202	278	2	700	1450	1300	1700	17.2
23038CAK	23038CAKF3/W33		290	75	2.1	224	259	278	5	202	278	2	700	1450	1300	1700	16.8

Leo Lee Email: [leo@chinahorton.com](mailto:leo@chinahorton.com) [leo1981.lee@gmail.com](mailto:leo1981.lee@gmail.com) Website: [www.chinahorton.com](http://www.chinahorton.com)  
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24038 CA	24038CAF3		290	100	2.1	219	252	278		202	278	2.5	855	1840	950	1300	22.9
23138CA	23138CA/W33		320	104	3	232	276	306	7	204	306	2.5	975	1840	1000	1400	34.3
24138CA	24138CA/W33		320	128	3	226	267	306	6	204	306	2.5	1200	2400	600	750	41.9
24138CAF3	24138CAK30/W33		320	128	3	226	267	306	6	204	306	3	1200	2400	600	750	41.8
22238CA	22238CA/W33		340	92	4	235	293	322		208	322	3	865	1620	1200	1600	37.4
22238CA/W33			340	92	4	235	293	322	6	208	322	3	865	1620	1200	1600	37.4
22238CAF3	22238CAKF3		340	92	4	235	293	322		208	322	3	865	1620	1200	1600	37.2
22238CAK	22238CAK/W33		340	92	4	235	293	322	6	208	322	3	865	1620	1200	1600	37.3
23238CA	23238CA/W33		340	120	4	237	288	322	7	208	322	3	1290	2400	850	1100	44.8
23238CAK/W33			340	120	4	237	288	322	7	208	322	3	1290	2400	850	1100	43.1
22338C			400	132	5	238	334	378		212	378	4	1640	2630	850	1100	80.8
22338CA	22338CA/W33		400	132	5	257	334	378	8	212	378	4	1640	2630	850	1100	82.2
22338CAF3CAF			400	132	5	257	334			212	378	4	1640	2630	850	1100	81.7
23940 CAF3/W33		200	280	60	2.1	226	254	9.5	4	212	268	2	495	1150	1600	2000	12.1
23040CA	2304CA/33		310	82	2.1	237	276	13.9	7.5	212	298	2	770	1560	1200	1600	22.6
23040CAK			310	82	2.1	237	276			212	298	2	770	1560	1200	1600	22.4
24040CA/W33	24040CAK30/W33		310	109	2.1	233	268	11.1	5	212	298	2	985	2130	900	1200	31.3
23140CA	23140CA/W33		340	112	3	243	292	16.7	7	214	326	2.5	1170	2240	950	1300	43.8
23140CAK	23140CAK/W33		340	112	3	243	292	16.7	7	214	326	2.5	1170	2240	950	1300	42.6
24140CA/W33			340	140	3	242	283	11.1	6	214	326	2.5	1380	2800	5610	700	52.1
22240C			360	98	4	237	309			218	342	3	1100	1950	1100	1500	43.7
22240CA	22240CA/W33		360	98	4	250	309	16.7	6	218	342	3	1100	1950	1100	1500	44.7
22240CAF3	22240CAKF3		360	98	4	250	309	16.7	6	218	342	3	1100	1950	1100	1500	44.3
22240CAK	22240CAK/W33		360	98	4	250	309	16.7	6	218	342	3	1100	1950	1100	1500	44.0
23240CA/W33			360	128	4	249	304	16.7	8	218	342	3	1360	2530	850	1100	53.4

23240CAK	23240CAK/W33		360	128	4	249	304	16.7	8	218	342	3	1360	2530	850	1100	52.0
22340CA	22340CAF3		420	138	5	269	350			222	398	4	1740	2860	850	1100	97.0
22340CAK	22340CAK/W33		420	138	5	269	350	22.3	8	222	398	4	1740	2860	850	1100	95.3
23340CAF3			420	165	5	269	350			222	398	4	2020	3500	750	950	122
23044CA/YA2		219. 5	340	90	3	260	303			234	326	2.5	935	1900	1100	1500	31.5
23044CA	23044CA/W33	220	340	90	3	260	303	13.9	6	234	326	2.5	935	1900	1100	1500	32.0
23044CAK	23044CAK/W33		340	90	3	260	303	13.9	6	234	326	2.5	935	1900	1100	1500	31.6
23044CAKF3			340	90	3	260	303			234	326	2.5	935	1900	1100	1500	31.0
24044CA/W33	24044CA/W33X		340	118	3	257	295	11.1	5	234	326	2.5	1150	2500	850	1100	39.1
24044CAF3	24044CAF3/W33		340	118	3	257	295	11.1	5	234	326	2.5	1150	2500	850	1100	39.0
23144CA	23144CA/W33		370	120	4	263	320	16.7	7	238	352	3	1370	2710	900	1200	54.7
23144CA/HG2W33			370	120	4	263	320	16.7	7	238	352	3	1370	2750	900	1200	54.6
23144CAK	23144CAK/W33		370	120	4	263	320	16.7	7	238	352	3	1370	2710	900	1200	53.1
23144CAKF3/W33			370	120	4	263	320	16.7	7	238	352	3	1570	2750	900	1200	52.7
22244CA	22244CA/W33		400	108	4.0	275	344	16.7	8	238	382	3	1350	2400	950	1300	63.5
22244CA/W33X	22244CAF3		400	108	4	275	344	16.7	8	238	382	3	1350	2400	950	1300	62.0
22244CAK			400	108	4	275	344			238	382	3	1350	2400	950	1300	63.2
23244CA/W33	23244CAK/W33		400	144	4	273	334	16.7	8	238	382	3	1720	3200	750	950	77.3
23948CA/W33		240	320	60	2.1	266	295	9.5	4	252	308	2	530	1310	1300	1700	15.0
23948CAF3	23948CAF3/W33		320	60	2.1	266	295	9.5	4	252	308	2	530	1310	1300	1700	14.9
23048CA	23048CA/W33		360	92	3	278	322	13.9	6	254	346	2.5	985	2080	1000	1400	34.2
23048CAK	23048CAK/W33		360	92	3	278	322	13.9	6	254	346	2.5	985	2080	1000	1400	32.2
23048CAQ1			360	92	3	278	322			254	346	2.5	985	2080	1000	1400	34.2
24048CA	24048CA/W33X		360	118	3	278	318	11.1	5	254	346	2.5	1240	2800	800	1000	46.5

Leo Lee Email: [leo@chinahorton.com](mailto:leo@chinahorton.com) [leo1981.lee@gmail.com](mailto:leo1981.lee@gmail.com) Website: [www.chinahorton.com](http://www.chinahorton.com)  
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24048CAK30			360	118	3	278	318			254	346	2.5	1240	2800	800	1000	46.5
23148CA	23148CA/W33		400	128	4	289	345	16.7	8	258	382	3	4500	3000	850	1100	68.2
24148CA	24148CA/W33		400	160	4	285	336	11.1	6	258	382	3	1660	3400	480	600	79.0
24148CAK30F3/W33			400	160	4	285	336	11.1	6	258	382	3	1660	3400	480	600	77.8
22248CAF3/C9W33	22248CAF3/W33		440	120	4	303	379	18	7	258	422	3	1820	1640	900	1200	85.0
23248CA/W33	23248CAF3		440	160	4	292	369	22.3	8	258	422	3	2080	3950	670	850	102
23248CAK/W33			440	160	4	292	369	22.3	8	258	422	3	2080	3950	670	850	102
23048CAQ1/Y42		241	360	92	3	278	322			254	346	2.5	985	2080	1000	1400	34.0
23952CA		260	360	75	2.1	294	328			272	348	2	820	1750	1100	1500	21.6
23052CA	23052CA/W33		400	104	4	306	357	16.7	7	278	382	3	1230	2550	900	1200	49.8
23052CAF3			400	104	4	306	357			278	382	3	1230	2550	900	1200	49.5
23052CAK	23052CAK/W33		400	104	4	306	357	16.7	7	278	382	3	1230	2550	900	1200	46.9
24052CA/W33			400	140	4	300	347	11.1	6	278	382	3	1780	1910	700	900	66.7
24052CAF3	24052CAF3/W33		400	140	4	300	347	11.1	6	278	382	3	1550	3500	700	900	64.9
24052CAK30/W33			400	140	4	300	347	11.1	6	278	382	3	1550	3500	700	900	65.2
23152CA	23152CA/W33		440	144	4	310	379	16.7	9	278	422	3	1860	3750	800	1000	88.9
23152CAK	23152CAK/HG2C9YA 6W33		440	144	4	310	379	16.7	9	278	422	3	1990	4050	800	1000	88.7
24152CA	24152CA/W33		440	180	4	312	366	13.9	8	278	422	3	2100	4350	430	530	115
24152CAF3/W33	24152CAK30/W33		440	180	4	312	366	13.9	8	278	422	3	2100	4350	430	530	113
22252CA	22252CA/W33		480	130	5	330	414			282	458	4	1900	3600	850	1100	106
22252CAK			480	130	5	330	414			282	458	4	2280	3600	850	1100	105
23252CA/W33	23252CAF3/W33		480	174	5	320	404	22.3	8	282	458	4	2800	4750	630	800	141
23252CAK/W33	23252CAKL/W33		480	174	5	320	404	22.3	8	282	458	4	2800	4750	630	800	145
22352CAF3/W33	22352CAKF3/W33		540	165	6	349	455	22.3	8	288	512	5	3000	4700	630	800	184

Leo Lee Email: [leo@chinahorton.com](mailto:leo@chinahorton.com) [leo1981.lee@gmail.com](mailto:leo1981.lee@gmail.com) Website: [www.chinahorton.com](http://www.chinahorton.com)  
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23956CAQ1/W33(305 3956QK)		280	380	75	2.1	316	346	12	6	292	368	2	700	1850	1000	1400	25.7
23056CA	23056CAK		420	106	4	323	377			298	402	3	1320	2850	850	1100	56.8
24056CA/W33			420	140	4	317	366	11.1	6	298	402	3	1620	3700	670	850	69.2
24056CAF3	24056CAF3/W33		420	140	4	317	366	11.1	6	298	402	3	1620	3700	670	850	68.9
24056CAK30F3/W33			420	140	4	317	366	11.1	6	298	402	3	1620	3700	670	850	67.2
23156CA	23156CA/W33		460	146	5	333	400	16.7	8	302	438	4	1990	4150	750	950	104
23156CAF3	23156CAKF3		460	146	5	333	400			302	438	4	1990	4150	750	950	103
23156CAK	23156CAK/W33		460	146	5	333	400	16.7	8	302	438	4	1990	4150	750	950	101
23156X2CA			460	130	5	332	404			302	438	4	1700	3400	750	950	87.0
24156CA			460	180	5	327	388			302	438	4	2220	4750	400	500	119
24156CA/HCW33	24156CA/W33		460	180	5	327	388	13.9	8	302	438	4	2220	4750	400	500	119
22256CA	22256CAF3		500	130	5	347	435			302	478	4	1990	3600	800	1000	118
22256CAK/W33			500	130	5	347	435	22.3	8	302	478	4	1990	3600	800	1000	117
22256CA			500	176	5	340	424			302	478	4	2580	5100	600	750	147
23256CCAF3	23256CAF3/W33		500	176	5	340	424	22.3	8	302	478	4	2580	5100	600	750	146
2325622356CA/W33			580	175	6	364	485	22.3	8	302	552	5	3200	5700	600	750	221
23960CA/W33		300	420	90	3	339	382	15	6	314	406	2.5	1050	2500	950	1300	40.1
23060CAF3/W33			460	118	4	351	409	16.7	7	318	442	3	1610	3450	800	1000	74.9
23060CAK	23060CAK/W33		460	118	4	351	409	16.7	7	318	442	3	1610	3450	800	1000	73.6
24060CA	24060CA/W33		460	160	4	342	399	13.9	7	318	442	3	2020	2700	600	750	99.0
23160CA	23160CA/W33		500	160	5	356	433	16.7	9	322	478	4	2310	4750	670	850	126
23160CAF3	23160CAF3/C9W33		500	160	5	356	433	16.7	9	322	478	4	2310	4750	670	850	125
23160CAK/W33	23160CAKF3		500	160	5	356	433	16.7	9	322	478	4	2310	4750	670	850	125
22260CA	22260CAF3		540	140	5	374	467			322	518	4	2310	4300	750	950	138

22260CAKF3			540	140	5	374	467			322	518	4	2310	4300	750	950	136
23260CAF1	23260CAKF1/W33		540	192	5	373	455	22	10	322	518	4	3300	5600	530	670	192
23064CAF3/W33	23064CAK/W33	320	480	121	4	368	431	16.7	8	338	462	3	1930	2200	800	1000	84.7
24064CAF3	24064CAF3/W33		480	160	4	368	421	22	8	338	462	3	2480	5100	560	700	106
23164CA	23024CA/W33		540	176	5	389	465	22.3	8	342	518	4	3150	3200	630	800	200
23164CAK	23164CAK/W33		540	176	5	389	465	22.3	8	342	518	4	3150	3200	630	800	195
22264CA	22264CACK		580	150	5	400	502			342	558	4	2490	4550	670	850	175
23264CA/W33	23264CAF3/W33		580	208	5	400	490	24	10	342	558	4	3920	6820	500	630	253
23264CAF3	23264CAKF3/W33		580	208	5	400	490	24	10	342	558	4	3920	6820	500	630	252
23968CAF3/W33		340	460	90	3	378	423	15	6	354	446	2.5	1200	2700	900	1200	45.6
23068CA	23068CA/W33		520	133	5	400	464	22.3	8	362	498	4	1980	4400	700	900	115
23068CAF3	23068CAF3/W33		520	133	5	400	464	22.3	8	362	498	4	1980	4400	700	900	114
23068CAKF3	23068CAKF3/W33		520	133	5	400	464	22.3	8	362	498	4	1980	4400	700	900	111
24068CA/W33	24068CAF1/W33		520	180	5	394	451	16.7	8	362	498	4	2460	5700	530	670	137
24068CAK30F1			520	180	5	394	451			362	498	4	2460	5700	530	670	134
23168CA/W33	23168CAF3/W33		580	190	5	412	497	22.3	8	362	558	4	3050	6300	600	750	211
23168CAKF3/W33			580	190	5	412	497	22.3	8	362	558	4	3050	6300	600	750	206
23972CA		360	480	90	3	403	441			374	466	2.5	1290	2820	850	1100	46.6
23072CA	23072CA/W33		540	134	5	419	486	22.3	8	382	518	4	2280	4800	670	850	126
23072CAF3	23072CAF3/W33		540	134	5	419	486	22.3	8	382	518	4	1950	2850	670	850	125
23072 CAKF3/W33			540	134	5	419	486	22.3	8	382	518	4	2280	4800	670	850	124
23172CA			600	192	5	434	518			382	578	4	3250	6850	560	700	255
24172CA	24172CA/W33		600	243	5	430	511	20	12	382	578	4	5600	8400	300	380	270
24172CAF1	24172CAF1/W33		600	243	5	430	511	20	12	382	578	4	5600	8400	300	380	269
24172CAK30/W33	24172CAK30F1/W33		600	243	5	430	511	20	12	382	578	4	5600	8400	300	380	270

Leo Lee Email: [leo@chinahorton.com](mailto:leo@chinahorton.com) [leo1981.lee@gmail.com](mailto:leo1981.lee@gmail.com) Website: [www.chinahorton.com](http://www.chinahorton.com)  
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23272CAKF3/W33			650	232	6	443	547	22.3	10	388	622	5	4650	8300	400	500	330
22372CAF3			750	224	7.5	471	631			392	720	6	4900	8600	400	500	466
22372CAK	22372CAKF3		750	224	7.5	471	631			392	720	6	4900	8600	400	500	460
23976CAF1/W33		380	520	106	4	426	476	15	10	398	502	3	1730	3800	800	1000	69.5
23076CA	23076CAKF3		560	135	5	441	505			402	538	4	2480	5000	630	800	130
24076CAK30F3/W33			560	180	5	435	494	22	10	402	538	4	3150	6900	480	600	153
23176CAF3/HAW33	23176CAF3/W33		620	194	5	457	540	22	8	402	598	4	3400	7350	400	500	244
23176CAK	23176CAKF3/W3		620	194	5	457	540	22	8	402	598	4	3400	7350	400	500	244
23980CAF1/W33		400	540	106	4	445	497	15	10	418	522	3	1730	3900	750	950	24.2
23080CA	23080CAKF3		600	148	5	460	538			422	578	4	2540	5900	600	750	161
23080CAKF3	23080CAF3/W33		600	148	5	460	538	22	12	422	578	4	2540	5900	600	750	158
24080CAKF3	24080CAF3/W33		600	200	5	458	524	22	12	422	578	4	3600	7800	450	560	202
23180CA	23180CA/W33		650	200	6	480	568	22.3	8	428	622	5	4100	7650	380	480	275
23180CAF3	23180CAF3/W33		650	200	6	480	568	22.3	8	428	622	5	4100	7650	380	480	273
23180CAKF3/W33			650	200	6	480	568	22.3	8	428	622	5	4100	7650	380	480	264
23180 X3CA/W33			670	216	6	480	568	22.3	8	428	622	5	4000	8550	380	480	293
23280CA/W33	23280CAF3/W33		720	256	6	499	606	22	10	428	692	5	6140	11300	340	430	353
23084CA	23084CAF3	420	620	150	5	484	558			442	598	4	2704	6400	450	560	149
23084CAKF3	23280CAF3/W33		620	150	5	484	558	22	8	442	598	4	2704	6400	450	560	149
24084CA/W33	24084CAF3/W33		620	200	5	479	548	22.3	12	442	598	4	3350	8450	380	480	202
24084CAK30F3/W33 X			620	200	5	479	548	22.3	12	442	598	4	3350	8450	380	480	197
23184CAF3	23184CAK		700	224	6	505	605			448	672	5	3650	5200	360	450	353
23284CA/W33	23284CAF3/C8W33		760	272	7.5	525	643	22	12	456	724	6	5610	11900	320	400	550
23284CAK/W33			760	272	7.5	525	643	22	12	456	724	6	5610	11900	320	400	549

Leo Lee Email: [leo@chinahorton.com](mailto:leo@chinahorton.com) [leo1981.lee@gmail.com](mailto:leo1981.lee@gmail.com) Website: [www.chinahorton.com](http://www.chinahorton.com)  
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23088CAF3	23088CAF3/W33	440	650	157	6	507	585	22.3	8	468	622	5	2780	6500	430	530	185
23088CAKF3			650	157	6	507	585			468	622	5	2780	6500	430	530	179
23188CA			720	226	6	522	626			468	692	5	4500	10000	340	430	378
23092CAF3/W33	23092CAKF3	460	680	163	6	531	613	23.5	12	488	652	5	3450	6950	400	500	226
24092CAF3/W33			680	218	6	528	600	24	12	488	652	5	4200	9100	340	430	304
23192CAF3	23192CAF3/W33		760	240	7.5	557	660	22	8	496	724	6	5500	10000	320	400	457
24192CA/W33			760	300	7.5	540	639	22.3	8	496	724	6	6100	1440	160	200	459
23292CAKF3/W33			830	296	7.5	566	698	22.3	10	496	794	6	7350	13500	300	380	698
23896CA		480	600	90	3	523	563			500	580	3	1290	4000	450	600	60.4
23996CAF1/W33			650	128	5	532	596	16.7	10	502	628	4	2150	5750	400	500	125
23196CAF1/W33	23196CAKF1/W33X		790	248	7.5	578	687	22	12	516	754	6	6100	12000	300	380	516
23296CAKF3			870	310	7.5	581	732			516	834	6	6750	15200	260	340	853
239/500CAF1		500	670	1128	5	555	619			522	648	4	2530	6000	400	500	120
230/500CAF3/HAW33 X			720	167	6	568	653	22.3	8	528	692	5	3150	7650	380	480	228
232/500CAF3/W33			920	336	7.5	620	774	22.3	12	536	884	6	8600	18600	280	360	985
230/530CA	230/530CA/W33	530	780	185	6	614	703	24	12	558	752	5	3900	9650	340	430	339
230/530CAF3	230/530CAF3/W33X		780	185	6	614	703	24	12	558	752	5	3900	9650	340	430	335
239/560CAF1		560	750	140	5	621	693			582	728	4	3050	7200	340	430	177
230/560CA	230/560CAF3		820	195	6	644	741			588	792	5	4300	10500	320	410	363
230/560CAF3/W33			820	195	6	644	741	22.3	9	588	792	5	4300	10500	320	410	360
231/560CA/W33	231/560CAF3/W33		920	280	7.5	677	803	22.3	12	596	884	6	6900	15700	240	320	756
231/560CAK/W33	231/560CAKF3/W33	600	920	280	7.5	677	803	22.3	12	596	884	6	6900	15700	240	320	745
230/600CAF3	230/600CAF3/W33		870	200	6	685	787	22.3	9	628	842	5	4700	11600	300	380	442
230/600CAKF3			870	200	6	685	787			628	842	5	4700	11600	300	380	430

Leo Lee Email: [leo@chinahorton.com](mailto:leo@chinahorton.com) [leo1981.lee@gmail.com](mailto:leo1981.lee@gmail.com) Website: [www.chinahorton.com](http://www.chinahorton.com)  
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241/600CA		630	980	375	7.5	709	827			636	944	6	8800	21600	110	150	1140
230/630CAF3		670	920	212	7.5	721	831			666	884	6	5150	12800	260	340	471
230/670CAF3		750	980	230	7.5	760	885			706	944	6	5730	14200	240	320	601
230/750CA	230/750CAF3	800	1090	250	7.5	847	985			786	1054	6	7000	17900	200	280	789
240/800CAF1		850	1150	345	7.5	900	1092			836	1114	6	10300	24600	170	220	1092
230/850CAF1	230/850CAKF1		1220	272	7.5	954	1108			886	1184	6	8450	22500	180	240	1074
240/850CAF1/W33X	240/850CAF1/YA1	1180	1220	365	7.5	956	1086	22.3	12	886	1184	6	10400	29700	160	200	1410
239/1180CAK	239/1180CAKF1/W33 X		1540	272	7.5	1296	1432	24	12	1216	1536	8	9350	29600	110	150	1350
230/1180CAF1/W33X			1660	355	9.5	1328	1509	24	12	1240	1600	6	9350	29600	110	150	2460

## Double-direction Double Row Thrust Tapered Roller Bearing

### Application:

Taper roller thrust bearings of the double direction type are mainly used together with multi-row cylindrical roller bearings in rolling mill applications. Those bearings with a plane shaft washer are the more popular as they are able to accommodate slight eccentricities of the shaft with respect to the housing bore, of the order of the radial internal clearance of the radial bearing with which they are used. A spacer sleeve is arranged between the two housing washers. This is dimensioned so that the cover screws of the chock can be fully tightened and no special spring adjustment of the bearing is required



### Technical specification

Designations	Principal dimensions								Basic load ratings		Weight	SKF	FAG
	d	D	H	da	D1	B	r1min	R2min	Cr	Cor	kg		
829232	160	300	110	186	190	34	1.0	1.5	580	2900	3.5		515805
829234	170	240	84	182	184	20	0.6	2.0	380	1390	12.5	350980C	528974
829736	180	280	90	192	196	20	1.0	2.0	580	2900	21.0	353162	528294
829244	220	300	96	231	236	22	0.6	2.0	450	1800	19.5	351019C	528876
829746	230	400	180	254	260	42	1.0	3.0	980	4800	114		530852
829748	240	320	96	251	256	22	0.6	2.0	430	2000	21.5	354182C	529086
829950	250	380	100	265	275	22	0.6	2.0	850	5000	42.3	353005	502010
829252	260	360	92	276	285	20	1.0	2.0	630	3200	27.7	350981C	509352
829954	270	450	180	300	310	45	2.0	3.0	1700	6100	118	351164C	527907
829260	300	420	100	324	330	23	1.5	2.5	890	4500	42.0		524740

Leo Lee Email: [leo@chinahorton.com](mailto:leo@chinahorton.com) [leo1981.lee@gmail.com](mailto:leo1981.lee@gmail.com) Website: [www.chinahorton.com](http://www.chinahorton.com)  
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829264	320	440	108	348	355	26	1.1	3.0	990	4700	48.0	353102C	528562
829764	320	470	340	340	350	30	1.1	3.0	1350	5800	79.0	350982C	509654

## Four Point Contact Ball Bearing

### Application:

Four point contact bearings are single row angular contact ball bearings and therefore require significantly less space in an axial direction than double row designs.

The bearings comprise solid outer rings, split inner rings and ball and cage assemblies with brass or polyamide cages. Due to the two-piece inner rings, a large number of balls can be accommodated. The halves of the inner ring are matched to the specific bearing and must not be interchanged with those of bearings of the same size. The outer ring with the ball and cage assembly can be fitted separately from the halves of the inner ring.



### Technical specification

Type No.		Principal dimensions				Basic load ratings		Speed ratings rpm.		Weight
		d	D	B	rmin	Cr	Cor	Grease	Oil	kg
QJ0000	QJF0000									
	QJ320N2M	100	215	47	3	249	370	2200	3200	8.78
QJF1024×1	QJ1024×1	120	179.5	28	2	115	150	2200	3200	2.56

Leo Lee Email: [leo@chinahorton.com](mailto:leo@chinahorton.com) [leo1981.lee@gmail.com](mailto:leo1981.lee@gmail.com) Website: [www.chinahorton.com](http://www.chinahorton.com)  
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QJF1024	QJ1024	120	180	28	2	152	208	2200	3200	2.71
QJF224		120	215	40	2.1	280	275	2200	3200	5.6
QJF1026×1	QJ1026×1	130	199.5	33	2	145	195	2000	2700	4.13
QJF1026	QJ1026	130	200	33	2	202	230	2000	2700	4.13
	QJ326N2M	130	280	58	4	330	560	1400	1800	20.1
QJF1028×1	QJ1028×1	140	209.5	33	2	205	240	1900	2600	4.13
QJF1028	QJ1028	140	210	33	2	205	240	1900	2600	4.27
QJF1030×1	QJ1030×1	150	224.5	35	2.1	225	275	1800	2400	5.42
QJF1030	QJ1030	150	225	35	2.1	225	275	1800	2400	5.3
QJF1032×1	QJ1032×1	160	239.5	38	2.1	220	300	1600	2200	6.36
QJF1032	QJ1032	160	240	38	2.1	260	318	1600	2200	6.54
QJF1034×1	QJ1034×1	170	259.5	42	2.1	280	350	1500	2000	8.58
QJF1034	QJ1034	170	260	42	2.5	225	315	1500	2000	8.33
		180	259.5	52	2.1	170	330	1500	2000	9.3
QJF1036		180	280	46	2.1	250	363	1400	1800	11.2
		180	290	46	2.1	230	408	1300	1700	13.3
		190	269.5	40	3	216	340	1200	1500	9.86
QJF1038	QJ1038	190	290	46	2.1	224	241	1300	1700	11.7
	QJ238	190	340	55	4	383	796	1000	1400	23.5
QJF3940×2		200	280	51	2.1	245	500	1400	1800	9.72
		200	289.5	58	3	235	415	1300	1700	13.2
QJF1040		200	310	51	2.1	305	475	1200	1600	14.6
QJF240		200	360	58	4	330	450	950	1300	28.1
		220	299.5	38	2.1	148	195	1200	1600	8.5
		220	300	60	2.1	160	340	1200	1600	10.8

		220	300	70	2.1	320	357	1200	1600	13.8
QJF3944×1		220	309.5	60	2.1	310	396	1200	1600	14.6
QJF1044M	QJ1044	220	340	56	3	448	622	1000	1400	19.1
QJF3944×1		240	329.5	60	2.1	360	480	1000	1400	15.7
		240	340	60	2.1	270	580	1000	1400	15.6
QJF1048×1M		240	359.5	60	3	456	650	950	1300	20.8
		240	360	56	3	460	655	950	1300	21
		260	360	46	2.1	164	231	950	1300	14.4
		260	360	65	2	280	630	950	1300	21.6
		260	369.5	60	3	300	660	950	1300	21.6
		260	369.5	65	3	300	660	950	1300	16.1
		260	374.5	60	3	313	585	900	1200	23
		260	389.5	65	4	500	750	850	1200	28.6
QJF1052		260	400	65	4	510	760	850	1200	32.7
QJF2956×3		280	375	65	2.1	380	900	850	1200	20
QJF1956×1		280	389.5	46	2.1	360	880	850	1200	18.2
		280	389.5	65	2.1	250	369	850	1200	23.9
		280	419.5	65	4	540	835	800	1000	34.7
	QJ1860	300	420	65	4	353	867	800	1000	29.3
		300	440	65	4	366	750	750	1000	31
QJF1060M	QJ1060	300	460	74	4	630	1040	700	950	48.8
		320	440	56	4	450	715	750	1000	27.6
QJF2964×2		320	440	65	4	450	715	750	1000	31.2
QJF1064	QJ1064	320	480	74	4	650	1090	650	850	50.5
QJF1068		340	520	82	5	722	1268	600	800	67.4

		268.5	523.8	75	4			530	700	
QJF1076		380	560	82	5	805	1430	500	670	
QJF1080		400	600	90	5	409	757	450	600	96.8
QJF1084		420	620	90	5					

## Single Row Angular Contact Ball Bearings

### Application

Angular contact ball bearings are designed to support combined radial and thrust loads or heavy thrust loads depending on the contact angle magnitude. The bearings having large contact angles can support heavier thrust loads. They are suitable for a wide range of applications including high speed machine tool spindles.



### Technical specification

TYPE.NO.	Principal Dimensions					Basic load ratings		Function point	Abutment and fillet dimensions			Speed ratings rpm.		weight
	d	D	B	R12min	R34min	Cr	Cor	a	Da(min)	Da(max)	ra(max)	Grease	Oil	Kg
B7032ACQ1	160	240	38	2.1	1.1	124	183	65.6	172	228	2	1800	220	5.74
B7032ACM	160	240	38	2.1	1.1	124	183	65.6	172	228	2	1800	0	5.81
7032ACM	160	240	38	2.1	1.1	124	183	65.6	172	228	2	1800	220	5.95

7232C	160	290	48	3	1.1	202	304	54.1	174	276	2.5	2900	0	14.5
7232AC	160	290	48	3	1.1	192(249)	289	76.5	174	276	2.5	1900	220	14.5
7332B	160	340	68	4	1.5	259	409	138.9	178	322	3	1200	0	30.8
7034ACQ1	170	260	42	2.1	1.1	153	227	71.1	182	248	2	2000	360	8.27
7034AC	170	260	42	2.1	1.1	153	227	71.1	182	248	2	2000	0	7.98
7234C	170	310	52	4	1.5	247	389	58.2	188	292	3	2800	260	17.2
7234AC	170	310	52	4	1.5	235	371	82	188	292	3	1800	0	17.2
B7234AC	170	310	52	4	1.5	217(282)	343	82	188	292	3	1500	160	17.4
7236C	180	320	52	4	1.5	256	418	59.5	198	302	3	2700	0	17.9
7236AC	180	320	52	4	1.5	244(320)	399	84.3	198	302	3	1700	260	17.9
7336B	180	380	75	4	1.5	311	536	155	198	362	3	1300	0	37
7038AC	190	290	46	2.1	1.1	218	263	79	202	278	2	1800	260	10.7
7040AC	200	310	51	2.1	1.1	203	331	85	212	298	2	1700	0	14.9
7040ACN1	200	310	51	2.1	1.1	203	331	85	212	298	2	1700	340	14.8
7240C	200	360	58	4	1.5	279(365)	487	66.5	218	342	3	2500	0	25.2
7240AC	200	360	58	4	1.5	265(345)	462	94.3	218	342	3	1500	240	25.2
7240B	200	360	58	4	1.5	238	417	146.5	218	342	3	1300	0	25.8
7244AC	220	400	65	4	1.5	326(325)	605(490)	104.7	238	382	3	1100	190	36.1
72948AC	240	320	48	2.1	1.1	142	250	89.3	252	308	2	1000	0	10
7248B	240	440	72	4	1.5	322	626	178.5	258	411	3	1000	320	50.9
71952AC	260	360	46	2.1	1.1	200	380	95.3	272	348	2	900	0	13.8
71956AC	280	380	46	2.1	1.1	206	405	99.9	292	368	2	800	220	15.7
B71957Y	285	380	46	2.1	1.1	188	366	119	297	368	2	800	0	14.7
7072CF3	360	540	82	5	1.4	409	965	101.3	382	518	4	600	180	65.3
71976B	380	520	65	4	1.5	273(330)	630	221.4	398	502	3	500	0	42.1

## Spherical Thrust Roller Bearings

### Application:

These bearings have a spherical raceway in the housing washer and barrel-shaped rollers obliquely arranged around it. Since the raceway in the housing washer is spherical, these bearings are self-aligning. They have a very high axial load capacity and are capable of taking moderate radial loads when an axial load is applied.



### Technical specification

Designations	Principal dimensions									Basic load ratings		Speed ratings		Abutment and fillet dimensions			Weight kg
	d	D	T	d <sub>1</sub>	D <sub>1</sub>	B	C	A	r(mm)	C <sub>a</sub>	C <sub>o</sub>	Grease	Oil	d <sub>a</sub> (min)	D <sub>a</sub> (max)	r <sub>g</sub> (max)	
29417	85	180	58	120	160	21	27.8	54	2.1	510	1650	1300	1900	130	151	2	6.76
29418	90	190	60	127	170	22	28.5	56	2.1	560	1980	1300	1800	135	158	2	7.85
29420	100	210	67	142	185	24	31.5	62	3	760	2500	1200	1700	150	175	2.5	12.3
29322	110	190	48	143	175	16	23	64	2	455	1640	1200	1700	145	164	2	6.94
29422		230	73	155.5	208	26	34.4	69	3	905	1540	1100	1600	164	193	2.5	18.1

39424	12 0	250	78	172	222	50.5	37	74	4	910	1590	1000	1500	180	209	3	17.1
29326 E	13 0	225	58	166	200	36.5	28	76	2.1	630	1150	1000	1500	138	194	2	8.48
29426		270	85	183	246	31	39.7	81	4	1110	3500	950	1400	142.5	227	3	28.3
29330	15 0	250	60	194	240	20	29	87	2.1	620	1210	950	1400	195	219	2	11.5
29430		300	90	214	285	32	44	92	4	1090	2070	800	1100	220	253	3	28.9
29430 E		300	90	206	266	58	44	92	4	1320	2370	800	1100	220	253	3	29.7
29432	16 0	320	95	218. 5	285	34	46.9	99	5	1650	5330	700	1000	235	270	4	32.8
29434 E	17 0	340	10 3	235	302	65.5	50	104	4	1680	3150	700	950	250	286	4	39.7
29236	18 0	250	42	209	239	15	21.3	97	1.5	420	1760	900	1300	215	227	1.5	7.05
29336		300	73	229	275	25	34.4	103	3	990	4050	700	1000	235	262	2.5	19.9
29436		360	10 9	249. 5	326	39	51.2	110	5	2050	6750	700	950	265	304	4	64.2
29438	19 0	380	11 5	263	345	41	53.7	117	5	2070	3900	630	850	280	321	4	75.6
29340	20 0	340	85	261	318	29	41	116	4	1200	2330	700	950	265	297	3	34
29340 K		340	85	261	325	54.5	41	116	4	1200	2330	700	950	265	297	3	34
29440		400	12	267.	360	44	56.7	122	5	2270	4300	600	800	295	337	4	83.5

			2	5													
29344	22 0	360	85	277. 5	330	29	40.7	125	4	1390	2800	670	900	285	316	3	28.6
29348	24 0	380	85	298. 5	360	29	41.7	135	4	1610	6100	600	800	305	336	3	35.4
29448		440	12 2	316	400	43	60	142	6	2920	10100	530	750	335	378	5	96.1
29256	28 0	380	60	322. 5	364	19	29.5	150	2.1	895	2130	700	1000	325	347	2	21.7
29468	34 0	620	17 0	449. 5	560	61	80	201	7.5	4550	9750	500	700	475	530	6	218
29376	38 0	600	13 2	475	561	44	61.4	216	6	3280	15200	450	650	495	535	5	129
29280	40 0	540	85	460	510	27	42	212	4	1720	4700	500	700	470	493	3	64.6
29380		620	13 2	489	582	44	64.7	225	6	3500	16800	440	620	510	550	5	153
29384	42 0	650	14 0	514. 5	610	48	6.8	235	6	3800	17900	420	600	535	580	5	175
29292	46 0	620	95	525. 5	590	30	49.4	245	5	2280	12900	400	580	540	565	4	74.7
292/50 0	50 0	670	10 3	572	640	33	50.5	268	5	2550	14600	380	540	585	615	4	117
294/50 0		870	22 4	648	790	81	106	290	9.5	8550	39500	320	460	685	755	8	589
292/53	53	710	10	6.4	680	35	54	288	5	2830	16600	350	500	615	655	4	118

0	0		9														
292/56	56	750	11	640	715	40	56.8	302	5	3100	8600	360	480	655	685	4	131
0	0		5														
292/80	80	106	15	907.	101	50	80	426	7.5	5650	36000	240	340	935	980	6	343
0	0	0	5	5	0												
292/10	10	140	20	120	133	66	100	566	9.5	9600	62000	180	260	1225	1290	8	767
60	60	0	6	8	5												

## Deep Groove Ball Bearings

### Application:

Deep Groove Ball Bearings with simple structure , are easy to use and maintain. These bearing are mainly used to support radial load and a certain amount of axial load. If enlarged the radial internal clearance of these bearings, the bearings have the features of the angular contact ball bearings and can support a heavier axial load. These bearings have a less frictional resistance and a high limiting speed , so can operate satisfactorily under high-speed condition.

The ball bearings with shield(s) and seal(s) have been lubricated with high quality grease when assembled the bearings. They should not be heated or cleaned before being mounted and relubrication in service is not required. The bearings can be used at operating temperature from -30°C to +120°C.



Leo Lee Email: [leo@chinahorton.com](mailto:leo@chinahorton.com) [leo1981.lee@gmail.com](mailto:leo1981.lee@gmail.com) Website: [www.chinahorton.com](http://www.chinahorton.com)  
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deep groove ball bearing bore diameter from 10mm to 1000mm,

6000 series,

6200 series, 6300 series, 6400 series,

6700 series, 61800 series, 61900 series,

62200 series, 62300 series, 63000 series,

R series, RLS series, RMS series, 1600 series,

16000 series etc

### Technical specification

Type No.	Principal Dimensions				Basic Load Ratings		Abutment and Fillet Dimensions			Speed Ratings rpm.		Weight kg
	d	D	B	rmin	Cr	Cor	Ds(min)	dh(max)	R(max)	Grease	Oil	
6010	50	80	16	1	16.9	16.3	55	75	1	6500	10000	0.248
6210	50	90	20	1.1	35	23.2	56.5	83.5	1	7100	8500	0.504
6310M	50	110	27	2	48	36	59	101	2	6300	7500	1.07
6310	50	110	27	2	48	36	59	101	2	6300	7500	0.998
810	50	111	27	2.3	48	38	61	101	2	6300	7500	1.10
6410	50	130	31	2.1	71	55	61	119	2	5300	6300	1.85
6211	55	100	21	1.5	33.5	28.8	63	92	1.5	6300	7500	0.605
6311	55	120	29	2	55	45	64	111	2	5600	6700	1.39
6311M	55	120	29	2	55	45	64	111	2	5600	6700	1.31
6411	55	140	33	2.1	77	62	66	129	2	5000	6000	2.31

Leo Lee Email: [leo@chinahorton.com](mailto:leo@chinahorton.com) [leo1981.lee@gmail.com](mailto:leo1981.lee@gmail.com) Website: [www.chinahorton.com](http://www.chinahorton.com)

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6012	60	95	18	1.1	30	23	66.5	88.5	1	6700	8000	0.426
6012M	60	95	18	1.1	30	23	66.5	88.5	1	6700	8000	0.497
6212	60	110	22	1.5	47.5	33	68	102	1.5	5600	7100	0.793
6312	60	130	31	2.1	63	48.5	71	119	2	5300	6300	1.71
6312M	60	130	31	2.1	70	53	71	119	2	5000	6000	2.07
6412	60	130	31	2.1	63	48.5	71	119	2	5000	6000	1.64
6412M	60	150	35	2.1	84	70	71	139	2	4800	5600	2.78
61913	65	90	13	1	15	17	70	85	1	6700	8000	0.203
6013	65	100	18	1.1	32	25	71.5	93.5	1	6300	7500	0.428
6013M	65	100	18	1.1	32	25	71.5	93.5	1	6300	7500	0.553
6213	65	120	23	1.5	44	40	73	112	1.5	5300	6300	0.973
6213M	65	120	23	1.5	43	41	73	112	1.5	5300	6300	1.01
180213	65	120	23	1.5	43	41	73	112	1.5	5300	6300	1.06
6313	65	140	33	2.1	63	48.5	76	129	2	4800	5600	2.10
6313M	65	140	33	2.1	63	48.5	76	129	2	5600	4800	2.10
6413	65	160	37	2.1	118	78.5	76	149	2	4500	6300	3.25
6014	70	110	20	1.1	38	31	76.5	103.5	1	6000	7000	0.62
6014M	70	110	20	1.1	38	31	76.5	103.5	1	6000	7000	0.757
6214M	70	125	24	1.5	46.5	46	78	117	1.5	5000	6000	1.34
6314M	70	150	35	2.1	80	68	81	139	2	4500	5300	2.55
6314	70	150	35	2.1	80	68	81	139	2	4500	5300	2.46
6414	70	180	42	3	143	103	83	167	2.5	3800	4500	4.73
6072M	72	110	20	1.1	38	31	77	105	1	4500	5300	0.584
6015	75	115	20	1.1	38	31	81.5	108.5	1	5600	6700	0.63
6015M	75	115	20	1.1	38	31	81.5	108.5	1	5600	6700	0.804

16015	75	115	13	0.6	17	22	81.5	108.5	1	5600	6700	0.583
6215	75	130	25	1.5	51	50	83	122	1.5	4800	5600	1.16
6215M	75	130	25	1.5	47	45	83	122	1.5	4800	5600	1.45
6215	75	130	25	1.5	51	50	83	122	1.5	4800	5600	1.16
6315	75	160	37	2.1	77	116	86	149	2	4300	5000	3.10
6315M	75	160	37	2.1	77	116	86	149	2	4300	5000	3.77
6415	75	190	45	3	153	114	88	177	2.5	3600	4300	5.57
61916	80	110	16	1	21	25	85	105	1	5600	6700	0.35
6016	80	125	22	1.1	47.5	40	86.5	118.5	1	5300	6300	0.86
6016M	80	125	22	1.1	47.5	40	86.5	118.5	1	5300	6300	1.08
6216	80	140	26	1.5	55	54.5	89	131	2	4500	5300	1.43
6316	80	170	39	2.1	94.5	86.5	91	159	2	4500	4800	3.64
6416	80	200	48	3	164	125	93	187	2.5	3400	4000	6.63
6017	85	130	22	1.1	47.5	40	91.5	123.5	1	5000	6000	0.935
6017M	85	130	22	1.1	47.5	40	91.5	123.5	1	5000	6000	1.12
6217	85	150	28	2	65	65	94	141	2	4300	5000	1.8
6217M	85	150	28	2	60	60	994	141	2	4300	5000	1.91
6317M	85	180	41	3	102	96.5	98	167	2.5	3800	4500	4.33
6417	85	210	52	4	133	136	101	194	3	3200	3800	8.12
61918	90	125	18	1.1	33	31.5	96.5	118.5	1	5000	6000	0.572
61918M	90	125	18	1.1	33	31.5	96.5	118.5	1	5000	6000	0.680
6018	90	140	24	1.5	58.5	50	98	132	1.5	4800	5600	1.16
16018M	90	140	16	1	58.5	50	95	135	1	4800	5600	0.941
6018M	90	140	24	1.5	58.5	50	98	132	1.5	4800	5600	1.39
6218	90	160	30	2	73.5	72	99	151	2	3800	4500	2.19

Leo Lee Email: [leo@chinahorton.com](mailto:leo@chinahorton.com) [leo1981.lee@gmail.com](mailto:leo1981.lee@gmail.com) Website: [www.chinahorton.com](http://www.chinahorton.com)  
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6318	90	190	43	3	111	108	103	177	2.5	3400	4000	4.97
6318M	90	190	43	5.5	111	108	103	177	2.5	3400	4000	4.97
6418M	90	225	54	4	193	158	106	209	3	3000	3600	9.47
1000819	95	120	13	1.5	19.9	22.8				1100	6700	0.37
16019	95	145	16	1	31.5	39	100	140	1	4500	5300	1.884
6019	95	145	24	1.5	60.5	54	103	137	1.5	4500	5300	1.14
6219	95	170	32	2.1	83.5	81.5	106	159	2	3600	4300	2.61
6219M	95	170	32	2.1	83.5	81.5	106	159	2	3600	4300	3.26
6319	95	200	45	3	120	122	108	187	2.5	3200	3800	5.56
6419M	95	240	55	4	204	171	108	215	2.5	3400	3600	13.4
61920M	100	140	20	1.1	34.5	35	106.5	133.5	1	4500	5300	0.96
61920	100	140	20	1.1	34.5	35	106.5	133.5	1	4500	5300	0.85
6020	100	150	24	1.5	56.5	48	108	142	1.5	4300	5000	1.17
6020M	100	150	24	1.5	48	56.5	108	142	1.5	4300	5000	1.4
720	100	180	28	1.8	89	92	111.5	171.5	1.8	3400	4000	2.7
6220	100	180	34	2.1	94	93	111	169	2	3400	4000	3.2
6320	100	215	47	3	141	133	113	202	2.5	2800	3600	7.01
6320M	100	215	47	3	141	133	113	202	2.5	2800	3600	7.11
6420	100	250	58	4	224	195	116	234	3	2600	3400	12.8
6420M	100	250	58	4	224	195	116	234	3	2600	3400	15.4
6021	105	160	26	2	72.8	65.5	114	151	2	4000	4800	1.62
6021M	105	160	26	2	72.8	65.5	114	151	2	4000	4800	1.92
721	105	180	22	1.1	52	65	113.5	173.5	1	4200	5000	2.61
6221	105	190	36	2.1	102	105	116	179	2	3200	3800	3.66
6321M	105	225	49	3	184	153	118	212	2.5	2800	3400	7.84

61822M	110	140	16	1	19	28	115	135	1	4300	5000	0.505
61922M	110	150	20	1.1	43.5	44.5	116.5	143.5	1	4000	4800	0.888
16022	110	170	19	1	57.2	57	115	165	1	3800	4500	1.48
6022	110	170	28	2	82	73.5	119	161	2	3800	4500	2.09
6022M	110	170	28	2	82	73.5	119	161	2	3800	4500	2.72
6222	110	200	38	2.1	102	106	121	189	2	2800	3400	4.29
6222M	110	200	38	2.1	102	106	121	189	2	2800	3400	5.46
6322M	110	240	50	3	158	176	123	227	2.5	2400	3000	9.49
6422	110	280	65	4	204	249	126	264	3	2200	3000	18.3
6422M	110	280	65	4	267	226	126	264	3	2200	3000	19
61924	120	165	22	1.1	55.3	57	126.5	158.5	1	3200	4000	41.62
6324M	120	260	55	3	208	186	134	246	2.5	2200	2800	15.4
61930M	150	210	28	2	88.4	93	159	201	2	2600	3200	3.16
6330M	150	320	65	4	277	280	166	304	3	1700	2200	27.1
61832M	160	200	20	1.1	49.4	64	166.5	193.5	1	2600	3200	1.49
6032M	160	240	38	2.1	138	143	172	228	2.1	2000	2800	6.05
6232M	160	290	48	3	215	218	173	277	2.5	1900	2400	14.5
6332M	160	340	68	4	276	285	176	324	3	1600	2000	31.3
6034M	170	260	42	2.1	168	173	181	249	2	1900	2600	8.21
6334M	170	360	72	4	312	340	186	344	3	1500	1900	34.5
6036M	180	280	46	2.1	190	200	192	268	2.1	2000	2600	10.8
6236M	180	320	52	4	229	240	196	304	3	1600	2000	19.9
	180	259.5	33	2.1	100	140				1250	1600	
	180	259.5	52	2.1	100	140				1250	1600	
61938	190	260	33	2	117	134	199	251	2	2200	2800	5.25

Leo Lee Email: [leo@chinahorton.com](mailto:leo@chinahorton.com) [leo1981.lee@gmail.com](mailto:leo1981.lee@gmail.com) Website: [www.chinahorton.com](http://www.chinahorton.com)  
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61938X1M	190	269.5	33	2						1180	1500	6.72
6038M	190	290	46	2.1	195	216	201	279	2	1700	2200	11
	190	295.5	33	2								
6238M	190	340	55	4	255	300	206	324	3	1500	1900	23.6
61840M	200	250	24	1.5	76.1	102	208	242	1.5	1800	2400	2.84
61940	200	280	38	2.1	148	166	211	269	2	1700	2200	7.4
6040M	200	310	51	2.1	216	245	211	299	2	1600	2000	14.7
6240M	200	360	58	4	270	310	216	344	3	1400	1800	22.5
61944M	220	300	38	2.1	151	180	231	289	2	1600	2000	7.96
63944M	220	300	60	2.1	136	163	231	289	2	960	1220	11.4
	220	309.5	38	3	116	178				930	1180	9.52
16044	220	340	37	2.1	174	204	231	329	2	1400	1800	11.5
6044M	220	340	56	3	247	290	233	327	2.5	1400	1800	19.2
6244M	220	400	65	4	355	365	236	384	3	1500	1800	35.7
61946X3M	230	329.5	40	3	139	215				940	1070	11.6
61948M	240	320	38	2.1	159	200	251	309	2	1400	1800	8.6
63948	240	329.5	60	2.1								
6048M	240	360	56	3	255	315	253	347	2.5	1200	1600	20.4
	240	359.5	56	3	255	315	253	347	2.5	1700	2000	19.5
6248M	240	440	72	4	358	475	256	424	3	1000	1400	53.9
6050X3	250	360	46	3	260	320						16.3
61952	260	360	46	2.1	212	270	271	349	2	1200	1600	14.5
16052	260	400	44	3	238	310	273	387	2.5	1100	1500	21.5
	260	369.5	46	2.1	162	269	271	349	2	920	1170	16.5
	260	369.5	60	2.1	176	289	271	349	2	920	1170	16.5

62952X1	260	379.5	60									
6052	260	400	65	4	291	375	276	384	3	1100	2500	29.5
61956X3M	275	389.5	65	2.1	166	283						24.3
63856X3M	280	360	50	2.1	121	156						12.3
61956	280	380	46	2.1	216	285	291	369	2	1100	1400	15.5
	280	389.5	46	4	166	285						17.4
	280	389.5	60	3	166	285						22.8
	280	389.5	65	3	166	285						22.8
6056	280	420	65	4	302	405	296	404	3	950	1300	31
61860	300	380	38	2.1	172	245	311	369	2	1100	1400	10.9
	300	420	56	3	270	375	313	407	2.5	1000	1300	21.5
61960X1	300	419.5	56	3	205	370	296	406.5	2.5	1000	1300	20.6
6060	300	460	74	4	257	476	316	444	3	950	1200	44
61864	320	400	38	2.1	172	255	331	389	2	1000	1300	11.8
	320	412	38	2.1	164	292						13.3
61964	320	440	56	3	276	400	333	427	2.5	950	1200	27.1
	320	440	65		208	285						30
61964X3	320	459.5	60	3	250	470						33.5
	320	459.5	70	3								37.7
6064	320	480	74	4	371	540	336	464	3	900	1100	48.4
	340	460	56	3	281	425	353	447	2.5	900	1100	26.5
6068	340	520	82	5	423	640	360	500	4	900	1100	67.3
61872MA	360	440	38	2.1	182	285	371	429	2	1100	1400	12.6
61876	380	480	46	2.1	247	390	391	469	2	1000	1300	20.9
6076	380	560	82	5	462	750	400	540	4	750	950	67.5

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6080	400	600	90	5	520	865	420	580	4	630	800	90.5
61982X2	410	559.5	82	4	360	605						58.5
6084	420	620	90	5	528	880	440	600	4	900	1100	92.6
6088M	440	650	94	6	553	965	466	624	5	850	1000	108
61892M	460	580	56	3	332	570	473	567	2.5	600	750	32.4
61896	480	600	56	3	325	600	493	587	2.5	850	1000	36.9
619/500	500	670	78	5	462	865	520	650	4	500	630	79.5
508780	530	760	100	6	583	848						163
618/710	710	870	74	4	475	1100	726	854	3	530	630	94.7

## Double Row Angular Contact Ball Bearing

### Application

Double-row angular contact ball bearings are basically two single-row angular contact ball bearings mounted back-to-back except that they have only one inner ring and one outer ring, each having raceways. They can take axial loads in either direction.



### Technical specification

Type No.	Principal dimensions				Basic load ratings		Speed ratings		Weight	SKF	FAG
	d	D	B	rmin	Cr	Cor	Grease	Oil	kg		
	90	137.5	70	1.5	103	107	1800	2900	2.97		
	100	170	70	2	150	210	1800	2900	6.25		

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	105	190	79	2.1	170	240	1800	2900	10.3		
4024D	120	180	60	2	110	183	1800	2900	5.6		
	120	190	66	2	139	220	1800	2900	7.5	309733	517458A
4026D	130	200	69	2	142	235	1700	2300			
4726D	130	210	80	2	165	220	1700	2300	9.58		
4028D	140	210	69	2	161	218	1700	2300	8.95		
4938X3D	140	209.5	66	2	161	218	1700	2300	8.3	309515D	538854
4030X2D	150	225	73	2.1	160	280	1600	2000	9.99	305286D	510776A
4030X3D	150	230	70	2.1	160	280	1600	2000	11.5	305283DA	
	150	240	84	2.1	251	340	1450	2850		305428	504083
	160	240	76	2.1	190	340	1450	1850	11.5	305183	507511
4032D	160	240	80	2.1	190	340	1450	1850	12		
4934X3D	170	259.5	84	2.1	226	323	1300	1700	14.2	538853	
	170	260	84	2.1	208	385	1300	1700	15	305180	503288
4034D	170	260	90	2.1	208	385	1300	1700	16.1		
4734D	170	280	109	2.1	208	320	1250	1600	24.4		
	180	259.5	66	2.1	180	340	1250	1600	11.9		
	180	259.5	80	2.1	180	340	1250	1600	11.9		
	180	280	92	2.1	237	450	1150	1500	22	305172B	
	180	280	100	3	237	450	1150	1500	24		
	190	269.5	66	2.1	183	290	1150	1500	12.5	305338DA	508658A
	190	290	92	2.1	245	480	1100	1400	23	305178	
4038D	190	290	100	2.1	247	480	1100	1400	24.6		
	200	279.5	76	2.1	206	400	1100	1400	15.3	305428D	508733A
	200	280	76	2.1	206	400	1100	1400	15.2	305237A	

	200	280	80	2.1	206	400	1100	1400	16	305393	507629
4940X3D-1	200	289.5	76	2.1	221	439	1100	1400	17.3	305263DA	509590A
	200	310	96	3	273	558	1100	1400	33.2	305352	506871
4040D	200	310	109	2.1	275	560	1000	1300	29.2		
	220	309.5	76	2.1	225	455	900	1200	18.6	305272DA	511045A
4044D	220	340	118	3	276	596	850	1200	32.6		
	230	329.5	80	3	240	500	850	1100	24.1	305264DA	508732A
	240	359.5	118	3	315	700	850	1100	39.4		
4048X3D	240	370	112	3	314	707	850	1100	47		
3248X2D	240	440	144	3	475	1139	850	1100	105		
	260	369.5	92	4	270	600	850	1100	29.9	305270D	508731
	260	400	130	4	436	735	800	1050	56	305174B	505057
	260	400	140	4	512	744	800	1050	58		
	280	389.5	92	4	320	600	850	1100	35.8	305269D	508730
4956X3D-1	280	390	92	4	320	600	850	1100	35.8		
	280	420	140	4	483	904	800	1050	69.2		
	300	419.5	112	3	399	741	750	1000	50.7		
4060D	300	460	160	4	445	868	750	1000	90.6		
	320	459.5	140	4	480	840	700	900	80.4		
4064D	320	480	160	4	453	908	700	900	96.2		
4068D	340	520	180	5							
	530	780	224	6	815	3086	360	480	377		
	650	780	84	3	540	760	360	480	81	BA2B309984	