

## Four row tapered roller bearings



Four row tapered roller bearings are composed of two double inner rings, one double row outer ring and two single outer rings. There is an inner spacer ring between the two inner rings and two middle spacer rings between the three outer rings to adjust the clearance. The bearing bears radial load and simultaneously bearing axial load in both directions, but the allowable rotational speed of the bearing is not high, so long as the roll bearing of the steel mill is brave enough. In recent years, the bearing began to produce double-sided seal ring structure, and gradually widely used.

The medium and small dimensions four row tapered roller bearings are made of bearing steel, the large four row tapered roller bearings are made of carburizing steel, and the special dimensions are made of hollow rollers and prop cages to increase the service life of the bearings.

### **1.Cage material:**

Four-row tapered roller bearings generally use steel plate stamping cage, especially large size of the support welding cage.

### **2.Tolerance and clearance:**

Four row tapered roller bearings are generally P0 tolerance, but they can also produce higher precision bearings according to the needs of customers (P5, P4).

The clearance of the four-row tapered roller bearing has been adjusted according to the installation regulation and the bearing production agreement (no production agreement according to the standard group clearance). After a certain period of use, the user should readjust the clearance.



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Model	Old Model	Boundary dimensions (mm)						Basic load ratings (KN)		Weight (KG)
		d	D	T	B	Rsmi n	rsmi n	dyc_Cr	stc_Cor	
7740	77740	200	310	200	200	3	2.5	1970	4250	55.6
-	2077140	200	310	275	275	3	2.5	1230	4200	75.1
77741	77741	205	320	205	205	4	3	1060	2850	55.4
2077144E	2077144E	220	340	305	305	4	3	2457	5974	100.8
2077148	2077148	240	360	310	310	4	3	3300	7210	90.5
330782A	-	241.478	349.148	228.6	228.6	1.5	3.3	1732	4387	70.4
380650	3-703	250	385	255	255	3	3	2127	4948	107.8
77750Y	77750Y	250	460	270	270	4	4	3040	5726	196
382952	2077952	260	360	265	265	3	3	1990	5770	80
381052X2/ HC	77752	260	400	255	255	5	5	2109	4957	123
382052	-	260	400	345	345	5	4	2850	7700	161
77752	77752	260	440	300	300	2	5	2715	5968	164
330822B	-	266.7	355.6	228.6	230.188	1.5	3.3	1780	5340	62.8
-	77756	280	420	250	250	5	5	1540	5300	119
381156	1077756	280	460	324	324	5	4	3780	8560	215.7
-	2077160	300	460	390	390	5	4	3850	10200	222
-	2077164	320	480	380	380	5	4	3000	11500	252
-	2077968	340	460	310	310	4	4	2200	9300	147
381068	-	340	520	325	325	5	4	3200	8200	247
-	77872	360	480	375	375	4	4	2550	1800	197
107772	1077772	360	600	420	420	4.7	4.7	3950	13500	388
-	77776	380	550	350	30	5	5	3800	10000	271
-	3077776	380	620	388	388	6	6	3450	11600	443
381176	1077776	380	620	420	420	5	4	5050	12600	485
-	77779	395	545	288.7	268.7	10	10	2361	6558	191
-	77880	400	540	280	280	3.7	7.5	2450	6500	187
380680	-	400	540	400	400	5	5	6350	13300	262
381080	-	400	600	356	356	5	4	3400	12400	345
380684	-	420	560	437	437	5	5	7180	16300	298
381184	1077784	420	700	480	480	6	5	9550	18200	755



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-	77888	440	620	454	454	6	6	6050	18800	432
-	77788	440	650	355	355	6	6	5040	12390	385
381992	1077992	460	620	310	310	4	3	4150	11651	252
-	77892	460	650	474	474	6	6	4500	12000	506
381192	-	460	730	440	440	4	7.5	5600	148100	663
-	77196	480	700	420	420	6	5	5350	15500	535
380698	-	490	625	385	385	7	4	4900	16500	278
3810/530	-	530	780	450	450	6	5	6550	18200	745
-	779/540	540	690	400	400	5	5	5700	11400	375
3819/560	-	560	750	368	368	5	4	7850	15800	447
3811/560	-	560	920	620	620	7.5	6	18200	32000	1690
-	779/600	600	800	365	365	5	5	4000	18100	489
-	10777/600	600	800	380	800	5	4	4000	18100	497
3810/600	-	600	870	480	480	6	6	6150	25500	992
-	10777/600	600	980	650	650	7.5	7.5	9650	37500	1970
3819/630	-	630	850	418	418	6	6	5000	22100	682
-	771/630	630	920	515	515	7.5	7.5	6550	27500	1190
3811/630	-	630	1030	670	670	7.5	6	15000	42000	2200
-	777/640	640	1030	560	560	7.5	12	16000	39300	1770
-	777/650	650	1030	560	560	7.5	12	14620	35515	1720
-	10779/670	670	900	412	412	6	6	5250	24600	773
-	779/710	710	900	410	410	3	6	5350	27500	650
-	10777/750	750	1220	840	840	9.5	9.5	16100	68500	3985

For more information, please contact [Tedin's](#) technical center.