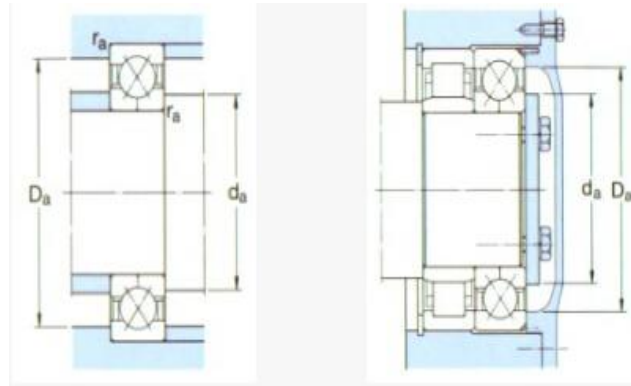


Similar to other ball bearings, angular contact ball bearings are composed of inner and outer races, ball complement and bearing cage; however, different to other ball bearings like a deep groove ball bearing, an angular contact ball bearing is designed with axially asymmetric race.

As a result, angular contact ball bearings are more suitable for supporting "combined loads" (loading in both the radial and axial directions); pure axial-load supporting in one direction is also possible. Generally speaking, the supporting capability for an axial load; and at the same time, the smaller the supporting capability for a radial load.

According to angular contact ball bearings manufacturers, single-row, and double-row angular contact ball bearings are both popular ones in the market. A single row angular contact ball bearings is suitable for carrying axial-load acting in one direction only; as a result, they are usually used in pairs or multi-arrangement in many applications. A double row angular contact ball bearing, however, is suitable for both an axial-load and a radial-load in both directions.

#### Four-point contact ball bearing



Motion(shanghai)Industrial Development Co.,Ltd

Principal dimensions (mm)			Basic load KN		Pu	Speed ratings rpm		Weight	Designation		Dimensions mm					Locating slots mm			Abutment and fillet mm		
d	D	B	dyc	stc		Speed Ratings	Limiting Speed	kg	Bearings with locating slots	Without locating slots	d	d1	D1	r <sub>1,2</sub>	a	b	h	ro	d <sub>a</sub>	Da	r <sub>a</sub>
			Cr	Cor								~	~	Min					Min	Max	Max
mm			kN		kN	r/min		kg	-		mm					mm			mm		
15	35	11	12,7	8,3	0,36	22000	36000	0,062	QT202N2MA	-	15	22	28,1	0,6	18	3	2,2	0,5	19,2	30,8	0,6
17	40	12	15,9	10,6	0,45	19000	30000	0,082	QT203N2MA	-	17	25,7	32,5	0,6	20	3,5	2,5	0,5	21,2	35,8	0,6
17	47	14	23,4	15	0,64	17000	28000	0,14	QT303N2MA	-	17	27,7	36,3	1	22	4,5	3,5	0,5	22,6	41,4	1
20	52	15	29,6	20	0,85	15000	24000	0,18	QT304N2MA	QT304MA	20	31,2	40,8	1,1	25	4,5	3,5	0,5	27	45	1
25	52	15	25,1	20	0,83	14000	22000	0,16	QT205N2MA	QT205MA	25	35	43	1	27	4,5	3	0,5	30,6	46,4	1

25	62	17	39	28	1, 18	12000	20000	0, 29	QT305N2MA	QT305MA	25	38	49	1, 1	30	4, 5	3, 5	0, 5	32	55	1
30	62	16	35, 1	28, 5	1, 2	12000	19000	0, 24	QT206N2MA	QT206MA	30	41, 2	50, 8	1	32	4, 5	3, 5	0, 5	35, 6	56, 4	1
30	72	19	49, 4	38	1, 63	10000	17000	0, 42	QT306N2MA	QT306MA	30	45, 8	58, 2	1, 1	36	4, 5	3, 5	0, 5	37	65	1
35	72	17	46, 2	39	1, 63	10000	17000	0, 36	QT207N2MA	QT207MA	35	47, 9	59	1, 1	37	4, 5	3, 5	0, 5	42	65	1
35	80	21	59, 2	46, 5	1, 96	9500	15000	0, 57	QT307N2MA	QT307MA	35	50, 7	64, 3	1, 5	40	5, 5	4	0, 5	44	71	1, 5
40	80	18	52, 7	45	1, 9	9000	15000	0, 45	QT208N2MA	QT208MA	40	54	66	1, 1	42	5, 5	4	0, 5	47	73	1
40	90	23	71, 5	58, 5	2, 45	8500	14000	0, 78	QT308N2MA	QT308MA	40	57, 5	72, 5	1, 5	46	5, 5	4	0, 5	49	81	1, 5
45	85	19	58, 5	51	2, 16	8500	14000	0, 52	-	QT209MA	45	58, 5	72	1, 1	46	-	-	-	52	78	1
45	100	25	93, 6	76, 5	3, 25	7500	12000	1, 05	QT309N2MA	QT309MA	45	63, 8	81, 2	1, 5	51	6, 5	5	0, 5	54	91	1, 5
50	90	20	61, 8	56	2, 4	7500	13000	0, 59	-	QT210MA	50	63, 5	76, 5	1, 1	49	5, 5	4	0, 5	57	83	1
50	110	27	111	91, 5	3, 9	6700	11000	1, 35	-	QT310MA	50	70	90	2	56	-	-	-	61	99	2
55	100	21	79, 3	76, 5	3, 2	7000	11000	0, 77	QT211N2MA	QT211MA	55	70, 3	84, 7	1, 5	54	6, 5	5	0, 5	64	91	1, 5
55	120	29	127	108	4, 55	6000	10000	1, 75	QT311N2MA	QT311MA	55	77, 2	97, 8	2	61	6, 5	8, 1	0, 5	66	109	2
60	110	22	92, 3	86, 5	3, 65	6300	10000	0, 99	QT212N2MA	QT212MA	60	77	93	1, 5	60	6, 5	5	0, 5	69	101	1, 5
60	130	31	146	125	5, 3	5600	9000	2, 15	QT312N2MA	QT312MA	60	84	106	2, 1	67	6, 5	8, 1	0, 5	72	118	2
65	120	23	104	104	4, 4	5600	9500	1, 20	QT213N2MA	QT213MA	65	84, 5	101	1, 5	65	6, 5	6, 5	0, 5	74	111	1, 5
65	140	33	165	146	6, 1	5300	8500	2, 70	-	QT313MA	65	90	115	2, 1	72	-	-	-	77	128	2
70	125	24	114	114	4, 8	5600	9000	1, 32	QT214N2MA	QT214MA	70	89	106	1, 5	68	6, 5	6, 5	0, 5	79	116	1, 5
70	150	35	186	166	6, 7	4800	8000	3, 15	QT314N2MA	QT314MA	70	97, 3	123	2, 1	77	8, 5	10, 1	2	82	138	2
75	130	25	117	122	5, 2	5300	8500	1, 45	QT215N2MA	QT215MA	75	93, 8	112	1, 5	72	6, 5	6, 5	0, 5	84	121	1, 5
75	160	37	199	186	7, 35	4500	7500	3, 90	QT315N2MA	-	75	104	131	2, 1	82	8, 5	10, 1	2	87	148	2
80	140	26	138	146	5, 85	4800	8000	1, 85	QT216N2MA	QT216MA	80	100	120	2	77	6, 5	8, 1	1	91	129	2
80	170	39	216	208	8	4300	7000	4, 60	QT316N2MA	-	80	111	139	2, 1	88	8, 5	10, 1	2	92	158	2
85	150	28	148	160	6, 2	4500	7500	2, 25	QT217N2MA	QT217MA	85	108	128	2	83	6, 5	8, 1	1	96	139	2
85	180	41	234	236	8, 65	4000	6700	5, 45	QT317N2MA	-	85	117	148	3	93	10, 5	11, 7	2	99	166	2, 5
90	160	30	174	186	6, 95	4300	7000	2, 75	QT218N2MA	-	90	114	136	2	88	6, 5	8, 1	1	101	149	2
90	190	43	265	285	10, 2	3800	6300	6, 45	QT318N2MA	-	90	124	156	3	98	10, 5	11, 7	2	104	176	2, 5
95	170	32	199	212	7, 8	4000	6700	3, 35	QT219N2MA	-	95	120	145	2, 1	93	6, 5	8, 1	1	107	158	2
95	200	45	286	315	11	3600	6000	7, 45	QT319N2MA	-	95	131	165	3	103	10, 5	11, 7	2	109	186	2, 5
100	180	34	225	240	8, 65	3800	6300	4, 05	QT220N2MA	-	100	127	153	2, 1	98	8, 5	10, 1	2	112	168	2
100	215	47	307	340	11, 6	3400	5600	9, 30	QT320N2MA	-	100	139	176	3	110	10, 5	11, 7	2	114	201	2, 5
110	200	38	265	305	10, 4	3400	5600	5, 60	QT222N2MA	-	110	141	169	2, 1	109	8, 5	10, 1	2	122	188	2
110	240	50	390	475	15	3000	4800	12, 5	QT322N2MA	-	110	154	196	3	123	10, 5	11, 7	2	124	226	2, 5
120	215	40	286	340	11, 2	3200	5000	6, 95	QT224N2MA	-	120	152	183	2, 1	117	10, 5	11, 7	2	132	203	2
120	260	55	390	490	15	2800	4500	16, 0	QT324N2MA	-	120	169	211	3	133	10, 5	11, 7	2	134	246	2, 5
130	230	40	296	365	11, 6	2800	4800	7, 75	QT226N2MA	-	130	165	195	3	126	10, 5	11, 7	2	144	216	2, 5
130	280	58	423	560	16, 6	2600	4000	19, 5	QT326N2MA	-	130	182	227	4	144	10, 5	12, 7	2	147	263	3
140	250	42	325	440	13, 2	2600	4300	9, 85	QT228N2MA	-	140	179	211	3	137	10, 5	11, 7	2	154	236	2, 5
140	300	62	468	640	18, 6	2400	3800	24, 0	QT328N2MA	-	140	196	244	4	154	10, 5	12, 7	2	157	283	3
150	270	45	377	530	15, 3	2400	4000	12, 5	QT230N2MA	-	150	194	226	3	147	10, 5	11, 7	2	164	256	2, 5
150	320	65	494	710	19, 6	2200	3600	29, 0	QT330N2MA	-	150	211	259	4	165	10, 5	12, 7	2	167	303	3
160	290	48	423	620	17, 6	2200	3800	15, 5	QT232N2MA	-	160	206	243	3	158	10, 5	12, 7	2	174	276	2, 5
160	340	68	540	815	21, 6	2000	3400	34, 5	QT332N2MA	-	160	224	276	4	175	10, 5	12, 7	2	177	323	3
170	310	52	436	670	18, 3	2200	3400	19, 5	QT234N2MA	-	170	221	258	4	168	10, 5	12, 7	2	187	293	3
170	360	72	618	965	25	1900	3200	41, 5	QT334N2MA	-	170	237	293	4	186	10, 5	12, 7	2	187	343	3
180	320	52	449	710	19	2000	3400	20, 5	QT236N2MA	-	180	231	269	4	175	10, 5	12, 7	2	197	303	3
180	380	75	637	1020	26	1800	3000	47, 5	QT336N2MA	-	180	252	309	4	196	10, 5	12, 7	2	197	363	3
190	400	78	702	1160	28, 5	1700	2800	49, 0	QT338N2MA	-	190	263	326	5	207	10, 5	12, 7	2	210	380	4

200	360	58	540	915	23,2	1800	3000	28,5	Q1240N2MA	-	200	258	302	4	196	10,5	12,7	2	217	363	3
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