

Single Row Ball Bearing External Gear



The Thin Section Slewing Bearing has the same structure with ordinary slewing bearing, but the weight is light, and it rotates flexibly.

Type: Single Row Ball Bearing External Gear

Weight/KG: 24-2800

Strengths: The oil nipple's location can be changed according to the user's application.

Application:

- 1. food machinery,
- 2. canning machinery
- 3. environmental machinery etc.

No	External gear	Dimensions (mm)			Mounting Dimensions (mm)					Structural Dimension (mm)					Gear data					Gearforce 10 ⁴ KN		weight kg	
		D	d	H	D1	D2	n	Φ	dm	L	n1	D3	d1	H1	h	b	x	M	De	z	N		T
1	011.20.200	280	120	60	248	152	12	16	M14	28	2	201	199	50	10	40	0	3	300	98	1.5	2.1	24
2	011.20.224	304	144	60	272	176	12	16	M14	28	2	225	223	50	10	40	0	3	321	105	1.5	2.1	25
3	011.20.250	330	170	60	298	202	18	16	M14	28	2	251	249	50	10	40	0	4	352	86	2.1	2.8	30
4	011.20.280	360	200	60	328	232	18	16	M14	28	2	281	279	50	10	40	0	4	384	94	1.5	2.8	34
5	011.25.315	408	222	70	372	258	20	18	M16	32	2	316	314	60	10	50	0	5	435	85	2.9	4.4	52
6	011.25.355	448	262	70	412	298	20	18	M16	32	2	356	354	60	10	50	0	5	475	93	2.9	4.4	59
7	011.25.400	493	307	70	457	343	20	18	M16	32	2	401	399	60	10	50	0	6	528	86	3.5	5.3	69
8	011.25.450	543	357	70	507	393	20	18	M16	32	2	451	449	60	10	50	0	6	576	94	3.5	5.3	76
9	011.25/30.500 012.25/30.500	602	398	80	566	434	20	18	M16	32	4	501	499 498	70	10	60	0.5	5	629	123	3.7	5.2	85
10	011.25/30.560 012.25/30.560	662	458	80	626	494	20	18	M16	32	4	561	559 558	70	10	60	0.5	6	628.8	102	4.5	6.2	
	5																	689	135	3.7	5.2		
11	011.25/30.630 012.25/30.630	732	528	80	696	564	24	18	M16	32	4	631	629 628	70	10	60	0.5	6	772.8	126	4.5	6.2	110
	8																	774.4	94	6	8.3/8.2		
12	011.25/30.710 012.25/30.710	812	608	80	776	644	24	18	M16	32	4	711	709 708	70	10	60	0.5	6	850.8	139	4.5	6.2	120
	8																	854.4	104	6	8.9/8.3		
13	011.30/40.800 012.30/40.800	922	678	100	878	722	30	22	M20	40	6	801	798	90	10	80	0.5	8	966.4	118	8	11.1	220
	10																	968	94	10	14.1/14		
14	011.30/40.900 012.30/40.900	1022	778	100	978	822	30	22	M20	40	6	901	898	90	10	80	0.5	8	1062.4	130	8	11.1	240
	10																	1068	104	10	14		
15	011.30/40.1000 012.30/40.1000	1122	878	100	1078	922	36	22	M20	40	6	1001	998	90	10	80	0.5	10	1188	116	10	14	270
	12																	1185.6	96	12	16.7		
16	011.30/40.1120 012.30/40.1120	1242	998	100	1198	1042	36	22	M20	40	6	1121	1118	90	10	80	0.5	10	1298	127	10	14	300
	12																	1305.6	106	12	16.7		
17	011.35/45.1250 012.35/45.1250	1390	1110	110	1337	1163	40	26	M24	48	5	1252	1248	100	10	90	0.5	12	1449.6	118	13.5	18.8	420
	14																	1453.2	101	15.8	21.9		
18	011.35/45.1400 012.35/45.1400	1540	1260	110	1487	1313	40	26	M24	48	5	1402	1398	100	10	90	0.5	12	1605.6	131	13.5	18.8	480
	14																	1607.2	112	15.5	21.9		
19	011.35/45.1600 012.35/45.1600	1740	1460	110	1687	1513	45	26	M24	48	5	1602	1598	100	10	90	0.5	14	1817.2	127	15.8	21.9	550
	16																	1820.8	111	18.1	25		
20	011.35/45.1800 012.35/45.1800	1940	1660	110	1887	1713	45	26	M24	48	5	1801 1802	1798	100	10	90	0.5	14	2013.2	141	15.8	21.9	610
	16																	2012.8	123	18.1	25		
21	011.40/60.2000 012.40/60.2000	2178	1825	144	2110	1891	48	33	M30	60	8	2001 2002	1998	132	12	120	0.5	16	2268.8	139	24.1	33.3	1100
	18																	2264.4	123	27.1	37.5		
22	011.40/60.2240 012.40/60.2240	2418	2065	144	2350	2131	48	33	M30	60	8	2241 2242	2238	132	12	120	0.5	16	2492.8	153	24.1	33.3	1250
	18																	2498.4	136	27.1	37.5		
23	011.40/60.2500 012.40/60.2500	2678	2325	144	2610	2391	56	33	M30	60	8	2501 2502	2498	132	12	120	0.5	18	2768.4	151	27.1	37.5	1400
	20																	2776	136	30.1	41.8		
24	011.40/60.2800 012.40/60.2800	2978	2625	144	2910	2691	56	33	M30	60	8	2802	2798	132	12	120	0.5	18	3074.4	168	27.1	37.5	1600
	20																	3076	151	30.1	41.8		
25	011.50/75.3150 012.50/75.3150	3376	2922	174	3286	3014	56	45	M42	84	8	3152	3147	162	12	150	0.5	20	3476	171	37.7	52.2	2800
	22																	3471.6	155	41.5	57.4		

Note:

- 1. n1 is the nos of lubricating holes. Oil cup M10×1JB/T7940.1~JB/T7940.2. The oil nipple's location can be changed according to the user's application.
- 2. n-φ can change to tapped hole, the diameter of tapped hole is M, depth is 2M.
- 3. The tangential tooth force in the form is the max tooth force, the nominal tangential tooth force is 1/2 of the max one.
- 4. "K" is addendum reduction coefficient.

Single Row Crossed Roller Bearing External Gear



The Single row crossed roller slewing bearing is composed of two seat rings, which design in compact structure and light weight, the clearance is small when assembly, so need high precision. The roller are 1:1 cross arranged, it can bear the axial force, tilting moment and relatively large radial force. It is widely used for hoisting, transportation, construction machinery, and the military products.

Typical: Single Row Crossed Roller Bearing External Gear

Weight: KG: 80-3100

No	External gear		Dimensions			Mounting Dimension					Structural Dimension					Gear Data				Gear circumferential force		weight kg		
	DL mm		D mm	d mm	H mm	D1 mm	D2 mm	n mm	dm mm	L mm	n1 mm	D3 mm	d1 mm	H1 mm	h mm	b mm	x mm	m mm	De mm	z	Normalizing Z 104N		Quenching T 104N	
1	111.25.500		602	398	75	566	434	20	18	M16	32	4	498	502	65	10	60	0.5	5	629	123	3.7	5.2	80
	112.25.500																	6	628.8	102	4.5	6.2		
2	111.25.560		662	458	75	626	494	20	18	M16	32	4	558	562	65	10	60	0.5	5	689	135	3.7	5.2	90
	112.25.560																	6	688.8	112	4.5	6.2		
3	111.25.630		732	528	75	696	564	24	18	M16	32	4	628	632	65	10	60	0.5	6	772.8	126	4.5	6.2	100
	112.25.630																	8	774.4	94	6	8.3		
4	111.25.710		812	608	75	776	644	24	18	M16	32	4	708	712	65	10	60	0.5	6	850.8	139	4.5	6.2	110
	112.25.710																	8	854.4	104	6	8.3		
5	111.28.800		922	678	82	878	722	30	22	M20	40	6	798	802	72	10	65	0.5	8	966.4	118	6.5	9.1	170
	112.28.800																	10	968	94	8.1	11.4		
6	111.28.900		1022	778	82	978	822	30	22	M20	40	6	898	902	72	10	65	0.5	8	1062.4	130	6.5	9.1	190
	112.28.900																	10	1068	104	8.1	11.4		
7	111.28.1000		1122	878	82	1078	922	36	22	M20	40	6	998	1002	72	10	65	0.5	10	1188	116	8.1	11.4	210
	112.28.1000																	12	1185.6	96	9.7	13.6		
8	111.28.1120		1242	998	82	1198	1042	36	22	M20	40	6	1118	1122	72	10	65	0.5	10	1298	127	8.1	11.4	230
	112.28.1120																	12	1305.6	106	9.7	13.6		
9	111.32.1250		1390	1110	91	1337	1163	40	26	M24	48	5	1248	1252	81	10	75	0.5	12	1449.6	118	11.3	15.7	350
	112.32.1250																	14	1453.2	101	13.2	18.2		
10	111.32.1400		1540	1260	91	1487	1313	40	26	M24	48	5	1398	1402	81	10	75	0.5	12	1605.6	131	11.3	15.7	400
	112.32.1400																	14	1607.2	112	13.2	18.2		
11	111.32.1600		1740	1460	91	1687	1513	45	26	M24	48	5	1598	1602	81	10	75	0.5	14	1817.2	127	13.2	18.2	440
	112.32.1600																	16	1820.8	111	15.1	22.4		
12	111.32.1800		1940	1660	91	1887	1713	45	26	M24	48	5	1798	1802	81	10	75	0.5	14	2013.2	141	13.2	18.2	500
	112.32.1800																	16	2012.8	123	15.1	22.4		
13	111.40.2000		2178	1825	112	2110	1891	48	33	M30	60	8	1997	2003	100	12	90	0.5	16	2268.8	139	18.1	25	900
	112.40.2000																	18	2264.4	123	20.3	28.1		
14	111.40.2240		2418	2065	112	2350	2131	48	33	M30	60	8	2237	2243	100	12	90	0.5	16	2492.8	153	18.1	25	1000
	112.40.2240																	18	2498.4	136	20.3	28.1		
15	111.40.2500		2678	2325	112	2610	2391	56	33	M30	60	8	2497	2503	100	12	90	0.5	18	2768.4	151	20.3	28.1	1100
	112.40.2500																	20	2776	136	22.6	31.3		
16	111.40.2800		2978	2625	112	2910	2691	56	33	M30	60	8	2797	2803	100	12	90	0.5	18	3074.4	168	20.3	28.1	1250
	112.40.2800																	20	3076	151	22.6	31.3		
17	111.50.3150		3376	2922	134	3286	3014	56	45	M42	84	8	3147	3153	122	12	110	0.5	20	3476	171	27.6	38.3	2150
	112.50.3150																	22	3471.6	155	30.4	42.1		
18	111.50.3550		3776	3322	134	3686	3414	56	45	M42	84	8	3547	3553	122	12	110	0.5	20	3876	191	30.4	38.3	2470
	112.50.3550																	22	3889.6	174	30.4	42.1		
19	111.50.4000		4226	3772	134	4136	3864	60	45	M42	84	10	3997	4003	122	12	110	0.5	22	4329.6	194	30.4	42.1	2800
	112.50.4000																	25	4345	171	34.5	47.8		
20	111.50.4500		4726	4272	134	4636	4364	60	45	M42	84	10	4497	4503	122	12	110	0.5	22	4835.6	217	30.4	42.1	3100
	112.50.4500																	25	4845	191	34.5	47.8		

Double Row Ball Slewing Bearing (H-07) External Gear



The Thin Section Slewing Bearing has the same structure with ordinary slewing bearing, but the weight is light, and rotate flexibly

Type: **H071**

Weight/KG: 80-240

Strengths: The Oil nipple's location can be changed according to the user's application.

Application:

1. food machinery,
2. canning machinery
3. environmental machinery etc.

Model	Dimensions (mm)							Mounting dimension (mm)					
	Da	O	U	Di	Ha	Hb	H	La	na	da	Li	ni	di
H071.22.372	504	466	374	278	75	87	95	430	16	18	314	16	18
H071.22.476	608	570	478	382	75	87	95	534	24	18	418	24	18
H071.22.580	712	674	582	486	76	88	98	638	24	18	522	24	18
H071.22.948	1080	1042	950	854	76	88	98	1006	30	18	890	30	18
H071.221064	1200	1162	1066	966	78	88	98	1124	36	20	1004	36	20

Model	Gear Data			Gear force(KN)		Weight
	P(mm)	Module	Z(teeth no.)	Allowed	Max	Kg
H071.22.372	488	8	61	31	62	80
H071.22.476	592	8	74	31	62	100
H071.22.580	696	8	87	32	64	126
H071.22.948	1064	8	133	32	64	208
H071.221064	1184	8	148	33	66	240

Three Row Roller Bearing External Gear



The three row roller slewing bearing has three seat rings, which separate the upper, lower and radial raceways, it made each row of the roller's load capacity can be specified and can bear different loads simultaneously. The capacity load is the largest one compare with the other three models. Due to the large size in axial and radial dimension the solid structure, it is specially suitable for the heavy duty machinery such as wheeled excavator, wheeled crane, ship crane, ladle turrets and the heavy duty mobile crane etc.

Wight/KG: 224-7320

No.	External Gear	Dimensions			Mounting Dimension					Structural Dimension				Gear Data					Gear circumferential force		Weight kg
	DL mm	D mm	d mm	H mm	D1 mm	D2 mm	n	mm	dm mm	L mm	n1 mm	H1 mm	h mm	b mm	x	m mm	D e mm	z	Normalizing Z 104N	Quenching T 104N	
1	131.25.500	634	366	148	598	402	24	18	M16	32	4	10	32	80	0.5	5	664	130	5.0	6.7	224
	132.25.500															6	664.8	108			
2	131.25.560	694	426	148	658	462	24	18	M16	32	4	10	32	80	0.5	5	724	142	5.0	6.7	240
	132.25.560															6	724.8	118			
3	131.25.630	764	496	148	728	532	28	18	M16	32	4	10	32	80	0.5	6	808.8	132	6.0	8	270
	132.25.630															8	806.4	98			
4	131.25.710	844	576	148	808	612	28	18	M16	32	4	10	32	80	0.5	6	886.8	145	6.0	8	300
	132.25.710															8	886.4	108			
5	131.32.800	964	636	182	920	680	36	22	M20	40	4	10	40	120	0.5	8	1006.4	123	12.1	16.7	500
	132.32.800															10	1008	98			
6	131.32.900	1064	736	182	1020	780	36	22	M20	40	4	10	40	120	0.5	8	1102.4	135	12.1	16.7	600
	132.32.900															10	1108	108			
7	131.32.1000	1164	836	182	1120	880	40	22	M20	40	5	10	40	120	0.5	10	1218	119	15.1	20.9	680
	132.32.1000															12	1221.6	99			
8	131.32.1120	1284	956	182	1240	1000	40	22	M20	40	5	10	40	120	0.5	10	1338	131	15.1	20.9	820
	132.32.1120															12	1341.6	109			
9	131.40.1250	1445	1055	220	1393	1107	45	26	M24	48	5	10	50	150	0.5	12	1509.6	123	22.9	31.4	1200
	132.40.1250															14	1509.2	105			
10	131.40.1400	1595	1205	220	1543	1257	45	26	M24	48	5	10	50	150	0.5	12	1665.6	136	22.9	31.4	1300
	132.40.1400															14	1663.2	116			
11	131.40.1600	1795	1405	220	1743	1457	48	26	M24	48	6	10	50	150	0.5	14	1873.2	131	26.3	36.6	1520
	132.40.1600															16	1868.8	114			
12	131.40.1800	1995	1605	220	1943	1657	48	26	M24	48	6	10	50	150	0.5	14	2069.2	145	26.3	36.6	1750
	132.40.1800															16	2076.8	127			
13	131.45.2000	2221	1779	231	2155	1845	60	33	M30	60	6	12	54	160	0.5	16	2300.8	141	32.2	44.5	2400
	132.45.2000															18	2300.4	125			
14	131.45.2240	2461	2019	231	2395	2085	60	33	M30	60	6	12	54	160	0.5	16	2556.8	157	32.2	44.5	2700
	132.45.2240															18	2552.4	139			
15	131.45.2500	2721	2279	231	2655	2345	72	33	M30	60	8	12	54	160	0.5	18	2822.4	154	36.2	50.1	3000
	132.45.2500															20	2816	138			
16	131.45.2800	3021	2579	231	2955	2645	72	33	M30	60	8	12	54	160	0.5	18	3110.4	170	36.2	50.1	3400
	132.45.2800															20	3116	153			
17	131.50.3150	3432	2868	270	3342	2958	72	45	M42	84	8	12	65	180	0.5	20	3536	174	45.2	62.6	5000
	132.50.3150															22	3537.6	158			
18	131.50.3550	3832	3268	270	3742	3358	72	45	M42	84	8	258	65	180	0.5	20	3936	194	45.2	62.6	5680
	132.50.3550															22	3933.6	176			
19	131.50.4000	4282	3718	270	4192	3808	80	45	M42	84	8	258	65	180	0.5	22	4395.6	197	49.8	68.9	6470
	132.50.4000															25	4395	173			
20	131.50.4500	4782	4218	270	4692	4308	80	45	M42	84	8	258	65	180	0.5	22	4901.6	220	49.8	68.9	7320
	132.50.4500															25	4895	193			

Note:

1. n1 is the numbers of lubricating holes. Oil cup M10×1JB/T7940.1~JB/T7940.
2. The Oil nipple's location can be change according to the user's application.
3. n-φ can change to tapped hole, the diameter of tapped hole is M, and depth is 2M.
4. The tangential tooth force in the form is the max tooth force; the nominal tangential tooth force is 1/2 of the max one.
5. "K" is addendum reduction coefficient.