
Preloaded Slewing Bearings



There are four basic requirements of precision preloaded slewing bearing:

1. The axial clearance and radial clearance of the bearing are adjusted into the negative clearance, Zero clearance and narrow clearance, such as (0.03-0.05).
 2. End runout and radial runout of the bearing: the end runout of the bearing with the diameter less than 1 m is 0.05, the radial runout is 0.08; the end runout of the bearing with the diameter more than 2 m is 0.08, the radial runout is 0.15.
 3. Gear grinding, usually Class 7-level gear, or Class 6-level gear.
 4. P4 standard, stable for three times, rough grinding, fine grinding and final grinding.
- For large-size heavy-duty high-precision preloaded slewing bearings, the relevant requirements are more specific:

1. Materials of inner ring and outer ring, and producing process.
2. Rolling element material and producing process.
3. Mechanical performance: impact test, chemical composition, metallographic structure and inclusion test report.
4. Cage structure, material and Application.
5. Sealing system and lubricating system.

Preloaded slewing bearing is a good choice for these machinery or equipments with requirements of measuring, positioning and precise rotation.

Tedin is professional of designing and producing precision preloaded slewing bearings as following structures:

1. Four point contact ball slewing bearings: with internal gear, with external gear, without gear;
2. Crossed roller slewing bearings: with internal gear, with external gear, without gear;
3. Dimension Range: ID 120 - 6000mm;
4. Special treatment: Teeth hardened, Grinding teeth, etc;



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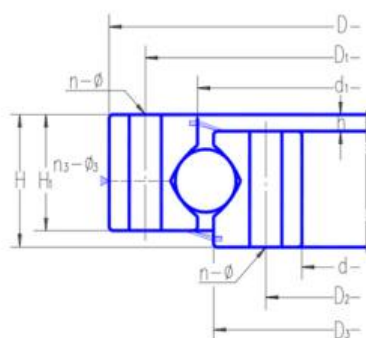
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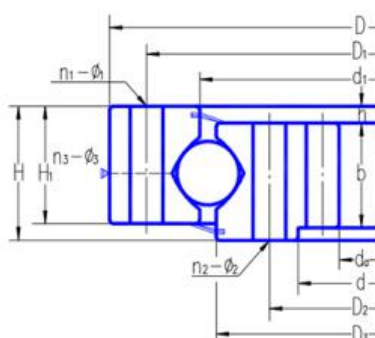
Homepage: www.tedin-bearing.com;

Tedin is supplying high precision proloaded slewing bearings for Radar, Solar power industry, and Laser process equipments, and some are military use.

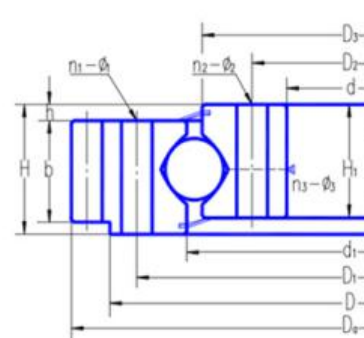
Welcome to contact us for specific technical information! We can supply not only slewing bearings, but with solution to your working conditions.



Without Gear (010 series)



With Internal Gear (011, 012 series)



With External Gear (013, 014 series)

Bearing Type			Boundary Dimensions			Mounting Dimensions						Structure Dimensions						Weight
Without Gear	External Gear	Internal Gear	D	d	H	D 1	D 2	n	Ø	dm	L	n 1	D 3	d 1	H 1	h	(kg)	
D L	D L	D L																
mm	mm	mm	mm	mm	mm	mm	mm		mm	mm	mm	mm	mm	mm	mm	mm		mm
010.20.200	011.20.200		280	120	60	248	152	12	16	M14	28	2	201	199	50	10		
010.20.224	011.20.224		304	144	60	272	176	12	16	M14	28	2	225	223	50	10		
010.20.250	011.20.250		330	170	60	298	202	18	16	M14	28	2	251	249	50	10		
010.20.280	011.20.280		360	200	60	328	232	18	16	M14	28	2	281	279	50	10		
010.25.315	011.25.315	013.25.315	408	222	70	372	258	20	18	M16	32	2	316	314	60	10		
010.25.355	011.25.355	013.25.355	448	262	70	412	298	20	18	M16	32	2	356	354	60	10		
010.25.400	011.25.400	013.25.400	493	307	70	457	343	20	18	M16	32	2	401	399	60	10		
010.25.450	011.25.450	013.25.450	543	357	70	507	393	20	18	M16	32	2	451	449	60	10		
010.30.500	011.30.500	013.30.500	602	398	80	566	434	20	18	M16	32	4	501	498	70	10	85	
	012.30.500	014.30.500																
010.25.500	011.25.500	013.25.500	602	398	80	566	434	20	18	M16	32	4	501	499	70	10	85	
	012.25.500	014.25.500																
010.30.560	011.30.560	013.30.560	662	458	80	626	494	20	18	M16	32	4	561	558	70	10	95	
	012.30.560	014.30.560																
010.25.560	011.25.560	013.25.560	662	458	80	626	494	20	18	M16	32	4	561	559	70	10	95	
	012.25. 560	014.25.560																

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010.30.630	011.30.630	013.30.630	732	528	80	696	564	24	18	M16	32	4	631	628	70	10	110
	012.30.630	014.30.630															
010.25.630	011.25.630	013.25.630	732	528	80	696	564	24	18	M16	32	4	631	629	70	10	110
	012.25.630	014.25.630															
010.30.710	011.30.710	013.30.710	812	608	80	776	644	24	18	M16	32	4	711	708	70	10	120
	012.30.710	014.30.710															
010.25.710	011.25.710	013.25.710	812	608	80	776	644	24	18	M16	32	4	711	709	70	10	120
	012.25.710	014.25.710															
010.40.800	011.40.800	013.40.800	922	678	100	878	722	30	22	M20	40	6	801	798	90	10	220
	012.40.800	014.40.800															
010.30.800	011.30.800	013.30.800	922	678	100	878	722	30	22	M20	40	6	801	798	90	10	220
	012.30.800	014.30.800															
010.40.900	011.40.900	013.40.900	1022	778	100	978	822	30	22	M20	40	6	901	898	90	10	240
	012.40.900	014.40.900															
010.30.900	011.30.900	013.30.900	1022	778	100	978	822	30	22	M20	40	6	901	898	90	10	240
	012.30.900	014.30.900															
010.40.1000	011.40.1000	013.40.1000	1122	878	100	1078	922	36	22	M20	40	6	1001	998	90	10	270
	012.40.1000	014.40.1000															
010.30.1000	011.30.1000	013.30.1000	1122	878	100	1078	922	36	22	M20	40	6	1001	998	90	10	270
	012.30.1000	014.30.1000															
010.40.1120	011.40.1120	013.40.1120	1242	998	100	1198	1042	36	22	M20	40	6	1121	1118	90	10	300
	012.40.1120	014.40.1120															
010.30.1120	011.30.1120	013.30.1120	1242	998	100	1198	1042	36	22	M20	40	6	1121	1118	90	10	300
	012.30.1120	014.30.1120															
010.45.1250	011.45.1250	013.45.1250	1390	1110	110	1337	1163	40	26	M24	48	5	1252	1248	100	10	420
	012.45.1250	014.45.1250															
010.35.1250	011.35.1250	013.35.1250	1390	1110	110	1337	1163	40	26	M24	48	5	1251	1248	100	10	420
	012.35.1250	014.35.1250															
010.45.1400	011.45.1400	013.45.1400	1540	1260	110	1487	1313	40	26	M24	48	5	1402	1398	100	10	480
	012.45.1400	014.45.1400															
010.35.1400	011.35.1400	013.35.1400	1540	1260	110	1487	1313	40	26	M24	48	5	1401	1398	100	10	480
	012.35.1400	014.35.1400															
011.45.1600	011.45.1600	013.45.1600	1740	1460	110	1687	1513	45	26	M24	48	5	1602	1598	100	10	550
	012.45.1600	014.45.1600															



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010.35.1600	011.35.1600	013.35.1600	1740	1460	110	1687	1513	45	26	M24	48	5	1601	1598	100	10	550
	012.35.1600	014.35.1600															
010.45.1800	011.45.1800	013.45.1800	1940	1660	110	1887	1713	45	26	M24	48	5	1802	1798	100	10	610
	012.45.1800	014.45.1800															
010.35.1800	011.35.1800	013.35.1800	1940	1660	110	1887	1713	45	26	M24	48	5	1801	1798	100	10	610
	012.35.1800	014.35.1800															
010.60.2000	011.60.2000	013.60.2000	2178	1825	144	2110	1891	48	33	M30	60	8	2002	1998	132	12	1100
	012.60.2000	014.60.2000															
010.40.2000	011.40.2000	013.40.2000	2178	1825	144	2110	1891	48	33	M30	60	8	2001	1998	132	12	1100
	012.40.2000	014.40.2000															
010.60.2240	011.60.2240	013.60.2240	2418	2065	144	2350	2131	48	33	M30	60	8	2242	2238	132	12	1250
	012.60.2240	014.60.2240															
010.40.2240	011.40.2240	013.40.2240	2418	2065	144	2350	2131	48	33	M30	60	8	2241	2238	132	12	1250
	012.40.2240	014.40.2240															
010.60.2500	011.60.2500	013.60.2500	2678	2325	144	2610	2391	56	33	M30	60	8	2502	2498	132	12	1400
	012.60.2500	014.60.2500															
010.40.2500	011.40.2500	013.40.2500	2678	2325	144	2610	2391	56	33	M30	60	8	2501	2498	132	12	1400
	012.40.2500	014.40.2500															
010.60.2800	011.60.2800	013.60.2800	2978	2625	144	2910	2691	56	33	M30	60	8	2802	2798	132	12	1600
	012.60.2800	014.60.2800															
010.40.2800	011.40.2800	013.40.2800	2978	2625	144	2910	2691	56	33	M30	60	8	2802	2798	132	12	1600
	012.40.2800	014.40.2800															
010.75.3150	011.75.3150	013.75.3150	3376	2922	174	3286	3014	56	45	M42	84	8	3152	3147	162	12	2800
	012.75.3150	014.75.3150															
010.50.3150	011.50.3150	013.50.3150	3376	2922	174	3286	3014	56	45	M42	84	8	3152	3147	162	12	2800
	012.50.3150	014.50.3150															