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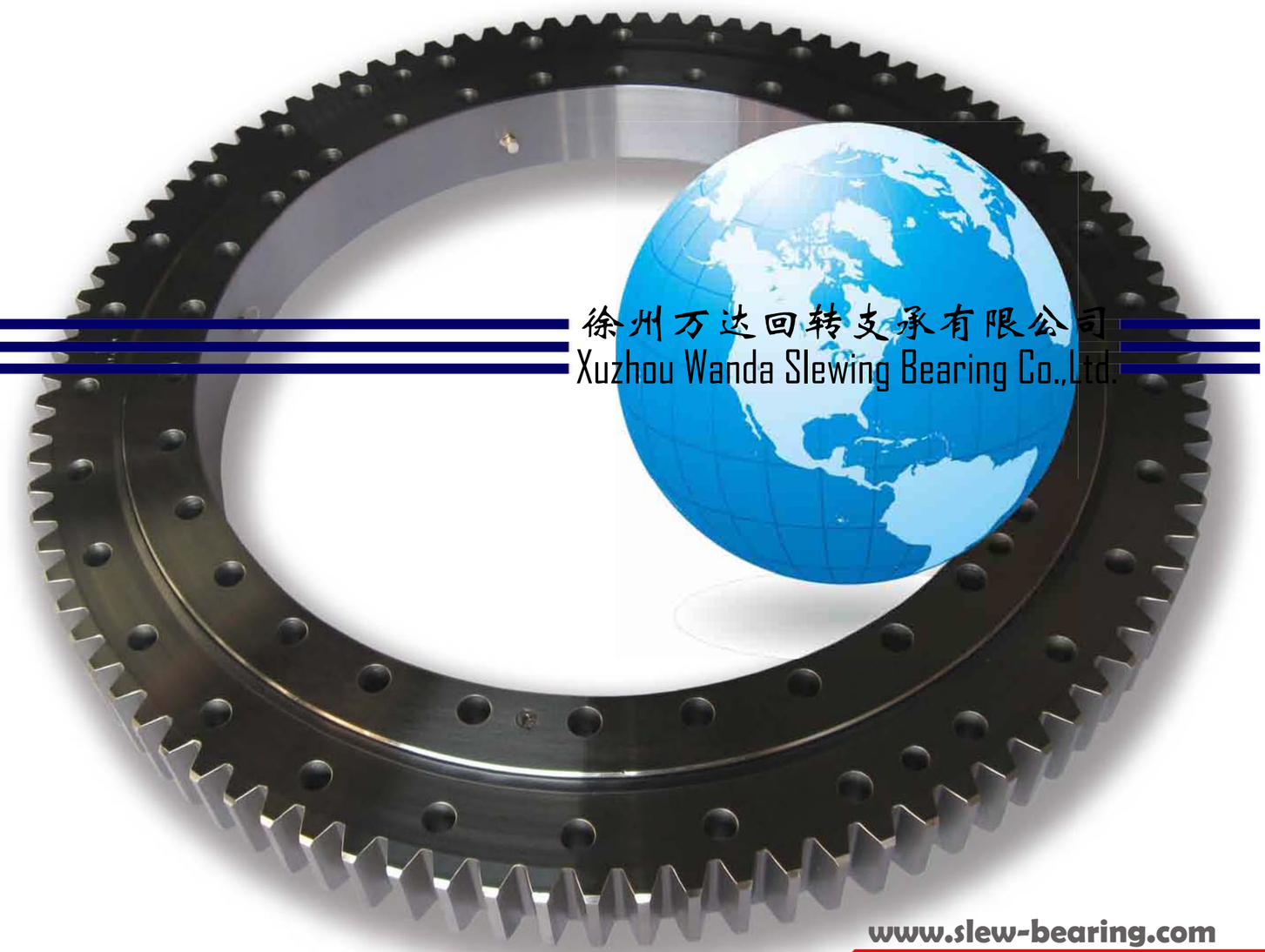
Xuzhou Wanda Slewing Bearing



徐州万达回转支承有限公司
Xuzhou Wanda Slewing Bearing Co.,Ltd.

Xuzhou Wanda Slewing Bearing Co.,Ltd.

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Content

XUZHOU WANDA SLEWING BEARING CO.,LTD.

Xuzhou Wanda Slewing Bearing Co.,Ltd.is a slewing bearing manufacturer specializing in standard and non-standard slewing bearing.Over the years, we supplied high quality product & good service to every user and gain good credit.We have strict quality control system in our own factory,meanwhile, we have passed ISO9001-2008 Quality System Certification and JG/T66-1999, JG/T67-1999, JG/T68-1999, JB/T2300-1999 with our country's engineering & machinery standards.

Our products ranging from 200mm to 5000mm,which mainly apply for tunneling equipment, harbor and shipyard cranes, construction equipment, mobile cranes, offshore technology, tower cranes, turning machines, solar energy plants, ship deck cranes, railway cranes, man lifts, wind turbines, and more. Our ability to optimize the bearing design for your specific needs is unparalleled and we will do our best to provide you the most reasonable price,high quality product and in time delivery !

We will assist you throughout the design, manufacturing and implementation process. Our goal is to use our resources to extend your company's capabilities and provide a comprehensive solutions package for all your application needs.






The Basic Structure of Slewing Bearing

Slewing bearing have many forms,but the structure composed almost the same.Figure 1 is the basic structure of slewing bearing.

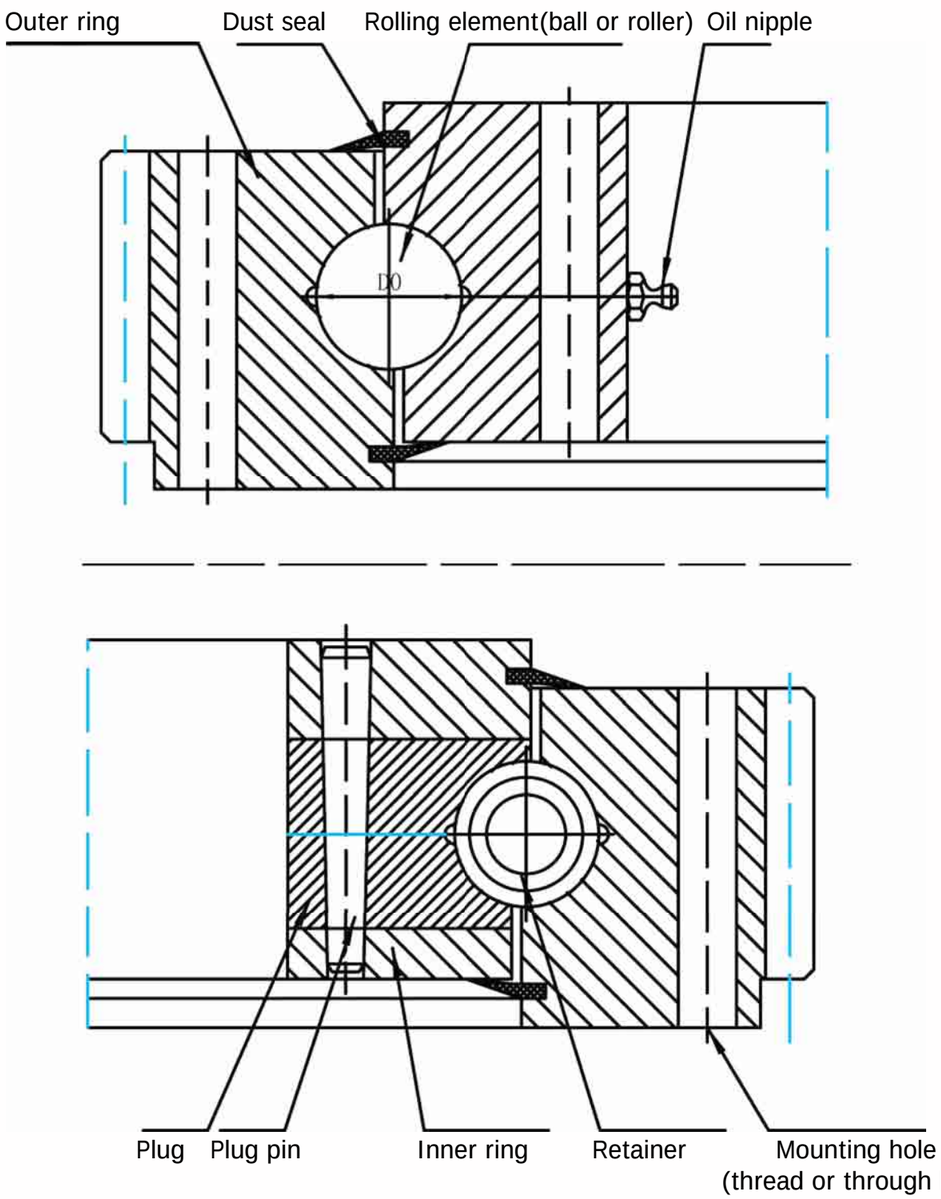
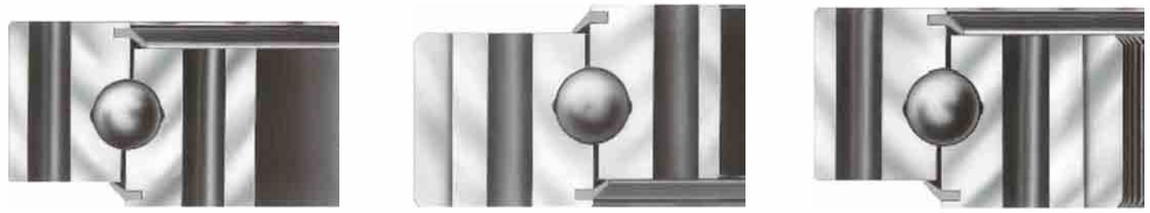


Fig.1

Single Row Four Point Contact ball Structure

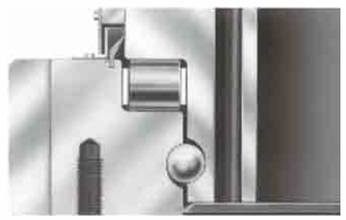


Single Row Crossed Roller Structure

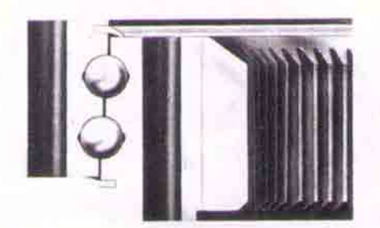
Double Row different Ball Structure

Three Row Roller Structure

Ball and Roller Combination Structure

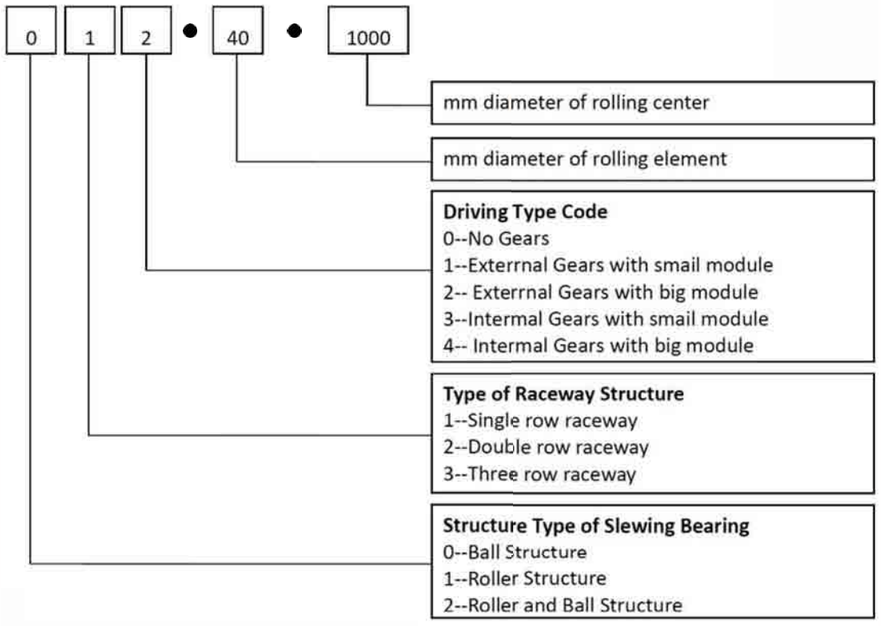


Double Row Ball Structure



2.The Naming of Slewing Bearing

2.1 The examples of specification for standavd types



2.2 The Alaming of Slewing Bearing -- Standard JB/T2300-1900

(1)Structure type of slewing bearing
- 0--ball series slewing bearing
- 1--roller series slewing bearing
- 2--roller and ball combination slewing bearing

(2)Type of raceway structure
- 1--Single row crossed roller series, single row four point contact series
- 2--Double row different ball series
- 3--Three row roller series

(3)Driving type code
- 0--Ungeared
- 1--External Involute gears meshing small module
- 2--External Involute gears meshing large module
- 3--Internal Involute gears meshing small module
- 4--External Involute gears meshing large module

(4)Rolling element(steel ball or roller) diameter

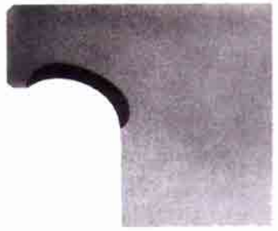
(5)Diameter of rolling center

3.Slewing Bearing Raceway and Gear Heat Treatment

Raceway heat treatment

Our company has advanced induction quenching lathe,all the slewing bearings' raceway are processed by surface induction quenching.The hardness will assure in the range of 55HRC ~ 62HRC,and can reach to enough depth for quenching.

Raceways of single row four point contact ball slewing bearings



Raceways of a supporting ring in double row ball slewing bearings

Raceways of single row crossed roller slewing bearings

Raceways of a nose ring in double row different ball slewing bearings

Raceways of a nose ring in three row roller slewing bearings

Gear heat treatment

The statement of gear heat treatment normally have two statement, normalizing and tempering.The quenching of gear surface can processed according to customer's requirement,the hardness are in the range of 50HRC ~ 60HRC. In different application,the gear quenching can divide into whole tooth quenching and single tooth induction quenching,the latter one can divide into tooth surface & root quenching and tooth surface quenching.

Whole tooth quenching

Tooth surface & root quenching

Tooth surface quenching.

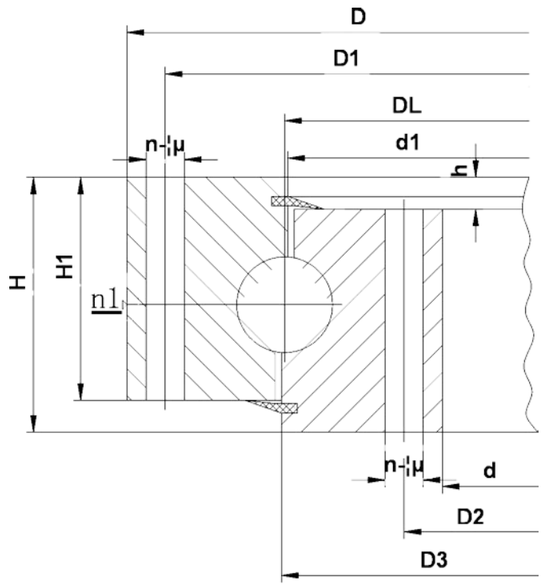
4.Single Row Four point Contact Ball Slewing Bearing

Characteristic of structure, performance and application

The single row four point contact ball slewing bearing is composed of two seat rings, which design in compact structure and light weight, steel ball contact with the circular raceway at four point, it can bear the axial force, radial force and the tilting moment at the same time.

It can be used for slewing conveyer, welding manipulator, light & medium duty crane, excavator, and other construction machinery.

①. Ungear (010 Series)



010

Characteristic of structure, performance and application

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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 change according to the user's application.
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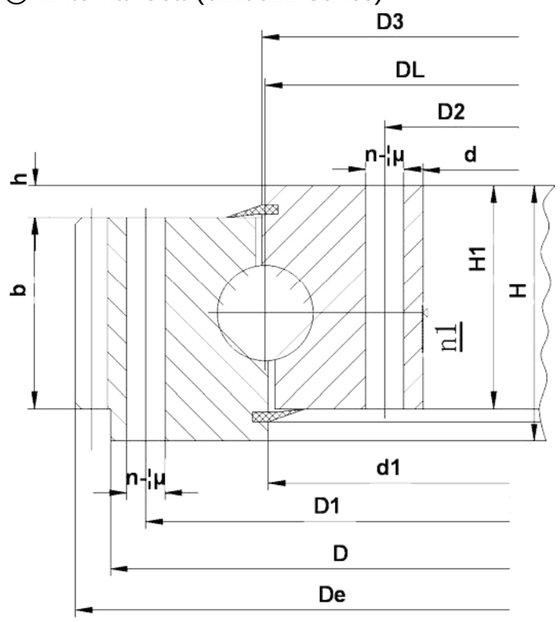
3. The tangential tooth force in the form is the max tooth force,the nominal tangential tooth force is 1/2 of the max one.
4. "K" is addendum reduction coefficient.

No	Non gear D L mm	Dimensions			Mounting Dimensions						Structural Dimension					Gear data					Tooth force		weight kg
		D mm	d mm	H mm	D 1 mm	D 2 mm	n	Ø mm	dm mm	L mm	n 1	D 3 mm	d 1 mm	H 1 mm	h mm	b mm	x	M mm	D e mm	z	Normalizing $Z10^4N$	Quenching $T10^4N$	
1	010.20.200	280	120	60	248	152	12	16	M14	28	2	201	199	50	10								20
2	010.20.224	304	144	60	272	176	12	16	M14	28	2	225	223	50	10								22
3	010.20.250	330	170	60	298	202	18	16	M14	28	2	251	249	50	10								25
4	010.20.280	360	200	60	328	232	18	16	M14	28	2	281	279	50	10								28
5	010.25.315	408	222	70	372	258	20	18	M16	32	2	316	314	60	10								44
6	010.25.355	448	262	70	412	298	20	18	M16	32	2	356	354	60	10								49
7	010.25.400	493	307	70	457	343	20	18	M16	32	2	401	399	60	10								56
8	010.25.450	543	357	70	507	393	20	18	M16	32	2	451	449	60	10								62
9	010.30.500	602	398	80	566	434	20	18	M16	32	4	501	498	70	10								85
9'	010.25.500	602	398	80	566	434	20	18	M16	32	4	501	499	70	10								85
10	010.30.560	662	458	80	626	494	20	18	M16	32	4	561	558	70	10								95
10'	010.25.560	662	458	80	626	494	20	18	M16	32	4	561	559	70	10								95
11	010.30.630	732	528	80	696	564	24	18	M16	32	4	631	628	70	10								110
11'	010.25.630	732	528	80	696	564	24	18	M16	32	4	631	629	70	10								110
12	010.30.710	812	608	80	776	644	24	18	M16	32	4	711	708	70	10								120
12′	010.25.710	812	608	80	776	644	24	18	M16	32	4	711	709	70	10								120
13	010.40.800	922	678	100	878	722	30	22	M20	40	6	801	798	90	10								220
13'	010.30.800	922	678	100	878	722	30	22	M20	40	6	801	798	90	10								220
14	010.40.900	1022	778	100	978	822	30	22	M20	40	6	901	898	90	10								240
14′	010.30.900	1022	778	100	978	822	30	22	M20	40	6	901	898	90	10								240
15	010.40.1000	1122	878	100	1078	922	36	22	M20	40	6	1001	998	90	10								270
15'	010.30.1000	1122	878	100	1078	922	36	22	M20	40	6	1001	998	90	10								270
16	010.40.1120	1242	998	100	1198	1042	36	22	M20	40	6	1121	1118	90	10								300
16′	010.30.1120	1242	998	100	1198	1042	36	22	M20	40	6	1121	1118	90	10								300
17	010.45.1250	1390	1110	110	1337	1163	40	26	M24	48	5	1252	1248	100	10								420
17'	010.35.1250	1390	1110	110	1337	1163	40	26	M24	48	5	1251	1248	100	10								420
18	010.45.1400	1540	1260	110	1487	1313	40	26	M24	48	5	1402	1398	100	10								480
18′	010.35.1400	1540	1260	110	1487	1313	40	26	M24	48	5	1401	1398	100	10								480
19	011.45.1600	1740	1460	110	1687	1513	45	26	M24	48	5	1602	1598	100	10								550
19'	010.35.1600	1740	1460	110	1687	1513	45	26	M24	48	5	1601	1598	100	10								550
20	010.45.1800	1940	1660	110	1887	1713	45	26	M24	48	5	1802	1798	100	10								610
20′	010.35.1800	1940	1660	110	1887	1713	45	26	M24	48	5	1801	1798	100	10								610
21	010.60.2000	2178	1825	144	2110	1891	48	33	M30	60	8	2002	1998	132	12								1100
21'	010.40.2000	2178	1825	144	2110	1891	48	33	M30	60	8	2001	1998	132	12								1100
22	010.60.2240	2418	2065	144	2350	2131	48	33	M30	60	8	2242	2238	132	12								1250
22′	010.40.2240	2418	2065	144	2350	2131	48	33	M30	60	8	2241	2238	132	12								1250
23	010.60.2500	2678	2325	144	2610	2391	56	33	M30	60	8	2502	2498	132	12								1400
23'	010.40.2500	2678	2325	144	2610	2391	56	33	M30	60	8	2501	2498	132	12								1400
24	010.60.2800	2978	2625	144	2910	2691	56	33	M30	60	8	2802	2798	132	12								1600
24'	010.40.2800	2978	2625	144	2910	2691	56	33	M30	60	8	2802	2798	132	12								1600
25	010.75.3150	3376	2922	174	3286	3014	56	45	M42	84	8	3152	3147	162	12								2800
25'	010.50.3150	3376	2922	174	3286	3014	56	45	M42	84	8	3152	3147	162	12								2800
26	010.75.3550	3776	3322	174	3686	3014	56	45	M42	84	8	3552	3547	162	12								3500
26'	010.50.3550	3776	3322	174	3686	3014	56	45	M42	84	10	3552	3548	162	12								3500
27	010.75.4000	4226	3772	174	4136	3864	60	45	M42	84	10	4002	3997	162	12								4200
27'	010.50.4000	4226	3772	174	4136	3864	60	45	M42	84	10	4002	3998	162	12								4200
28	010.75.4500	4726	4272	174	4636	4364	60	45	M42	84	10	4502	4497	162	12								5100
28'	010.50.4500	4726	4272	174	4636	4364	60	45	M42	84	10	4502	4498	162	12								5100

② External Gear(011/012 Series)



011. 012

Characteristic of structure, performance and application

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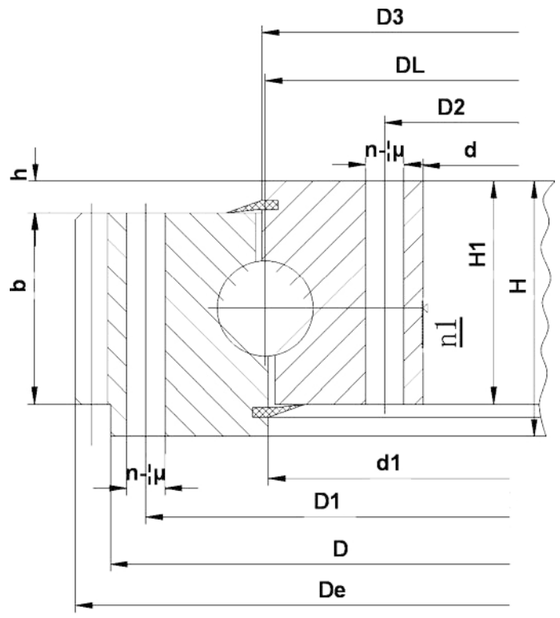
It can be used for slewing conveyer, welding manipulator, light & medium duty crane, excavator, and other construction machinery.

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 change according to the user's application.
2. n-φcan 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.

No.	External gear D L mm	Dimensions			Mounting Dimensions						Structural Dimension					Gear data					Tooth force		weigh t kg
		D mm	d mm	H mm	D 1 mm	D 2 mm	n	Ø mm	dm mm	L mm	n 1	D 3 mm	d 1 mm	H 1 mm	h mm	b mm	x	M mm	D e mm	z	Normalizing $Z10^4N$	Quenching $T10^4N$	
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	011.30.500	602	398	80	566	434	20	18	M16	32	4	501	498	70	10	60	0.5	5	629	123	3.7	5.2	85
	012.30.500																	6	628.8	102	4.5	6.2	
9'	011.25.500	602	398	80	566	434	20	18	M16	32	4	501	499	70	10	60	0.5	5	629	123	3.7	5.2	85
	012.25.500																	6	628.8	102	4.5	6.2	
10	011.30.560	662	458	80	626	494	20	18	M16	32	4	561	558	70	10	60	0.5	5	689	135	3.7	5.2	95
	012.30.560																	6	688.8	112	4.5	6.2	
10'	011.25.560	662	458	80	626	494	20	18	M16	32	4	561	559	70	10	60	0.5	5	689	135	3.7	5.2	95
	012.25. 560																	6	688.8	112	4.5	6.2	
11	011.30.630	732	528	80	696	564	24	18	M16	32	4	631	628	70	10	60	0.5	6	772.8	126	4.5	6.2	110
	012.30.630																	8	774.4	94	6	8.3	
11'	011.25.630	732	528	80	696	564	24	18	M16	32	4	631	629	70	10	60	0.5	6	772.8	126	4.5	6.2	110
	012.25.630																	8	774.4	94	6	8.2	
12	011.30.710	812	608	80	776	644	24	18	M16	32	4	711	708	70	10	60	0.5	6	850.8	139	4.5	6.2	120
	012.30.710																	8	854.4	104	6	8.3	
12'	011.25.710	812	608	80	776	644	24	18	M16	32	4	711	709	70	10	60	0.5	6	850.8	139	4.5	6.2	120
	012.25.710																	8	854.4	104	6	8.9	
13	011.40.800	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
	012.40.800																	10	968	94	10	14	
13'	011.30.800	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
	012.30.800																	10	968	94	10	14.1	
14	011.40.900	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
	012.40.900																	10	1068	104	10	14	
14'	011.30.900	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
	012.30.900																	10	1068	104	10	14	
15	011.40.1000	1122	878	100	1078	922	36	22	M20	40	6	1001	998	90	10	80	0.5	10	1188	116	10	14	270
	012.40.1000																	12	1185.6	96	12	16.7	
15'	011.30.1000	1122	878	100	1078	922	36	22	M20	40	6	1001	998	90	10	80	0.5	10	1188	116	10	14	270
	012.30.1000																	12	1185.6	96	12	16.7	
16	011.40.1120	1242	998	100	1198	1042	36	22	M20	40	6	1121	1118	90	10	80	0.5	10	1298	127	10	14	300
	012.40.1120																	12	1305.6	106	12	16.7	
16’	011.30.1120	1242	998	100	1198	1042	36	22	M20	40	6	1121	1118	90	10	80	0.5	10	1298	127	10	14	300
	012.30.1120																	12	1305.6	106	12	16.7	
17	011.45.1250	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
	012.45.1250																	14	1453.2	101	15.8	21.9	
17'	011.35.1250	1390	1110	110	1337	1163	40	26	M24	48	5	1251	1248	100	10	90	0.5	12	1449.6	118	13.5	18.8	420
	012.35.1250																	14	1453.2	101	15.8	21.9	

② External Gear(011/012 Series)



011.012

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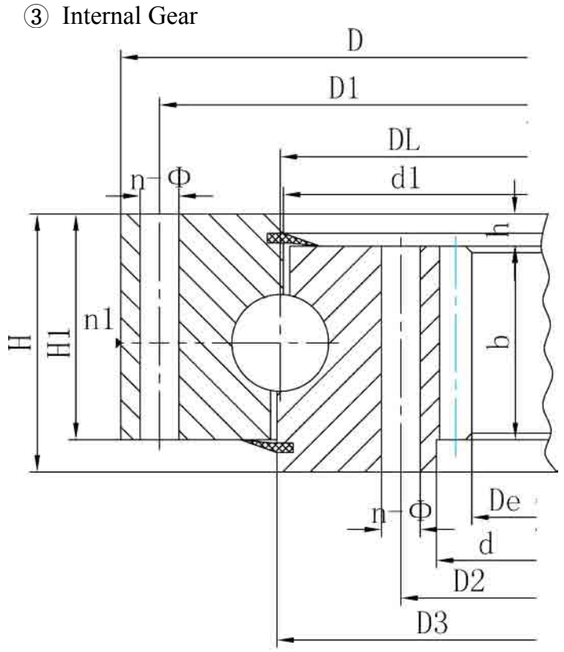
		D mm	d mm	H mm	D 1 mm	D 2 mm	n	Ø mm	dm mm	L mm	n 1	D 3 mm	d 1 mm	H 1 mm	h mm	b mm	x	M mm	D e mm	z	Normalizing $Z10^4N$	Quenching $T10^4N$	
18	011.45.1400	1540	1260	110	1487	1313	40	26	M24	48	5	1402	1398	100	10	90	0.5	12	1605.6	131	13.5	18.8	480
	012.45.1400																	14	1607.2	112	15.5	21.9	
18'	011.35.1400	1540	1260	110	1487	1313	40	26	M24	48	5	1401	1398	100	10	90	0.5	12	1605.6	131	13.5	18.8	480
	012.35.1400																	14	1607.2	112	15.8	21.9	
19	011.45.1600	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
	012.45.1600																	16	1820.8	111	18.1	25	
19'	011.35.1600	1740	1460	110	1687	1513	45	26	M24	48	5	1601	1598	100	10	90	0.5	14	1817.2	127	15.8	21.9	550
	012.35.1600																	16	1820.8	111	18.1	25	
20	011.45.1800	1940	1660	110	1887	1713	45	26	M24	48	5	1802	1798	100	10	90	0.5	14	2013.2	141	15.8	21.9	610
	012.45.1800																	16	2012.8	123	18.1	25	
20'	011.35.1800	1940	1660	110	1887	1713	45	26	M24	48	5	1801	1798	100	10	90	0.5	14	2013.2	141	15.8	21.9	610
	012.35.1800																	16	2012.8	123	18.1	25	
21	011.60.2000	2178	1825	144	2110	1891	48	33	M30	60	8	2002	1998	132	12	120	0.5	16	2268.8	139	24.1	33.3	1100
	012.60.2000																	18	2264.4	123	27.1	37.5	
21'	011.40.2000	2178	1825	144	2110	1891	48	33	M30	60	8	2001	1998	132	12	120	0.5	16	2268.8	139	24.1	33.3	1100
	012.40.2000																	18	2264.4	123	27.1	37.5	
22	011.60.2240	2418	2065	144	2350	2131	48	33	M30	60	8	2242	2238	132	12	120	0.5	16	2492.8	153	24.1	33.3	1250
	012.60.2240																	18	2498.4	136	27.1	37.5	
22'	011.40.2240	2418	2065	144	2350	2131	48	33	M30	60	8	2241	2238	132	12	120	0.5	16	2492.8	153	24.1	33.3	1250
	012.40.2240																	18	2498.4	136	27.1	37.5	
23	011.60.2500	2678	2325	144	2610	2391	56	33	M30	60	8	2502	2498	132	12	120	0.5	18	2768.4	151	27.1	37.5	1400
	012.60.2500																	20	2776	136	30.1	41.8	
23'	011.40.2500	2678	2325	144	2610	2391	56	33	M30	60	8	2501	2498	132	12	120	0.5	18	2768.4	151	27.1	37.5	1400
	012.40.2500																	20	2776	136	30.1	41.8	
24	011.60.2800	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
	012.60.2800																	20	3076	151	30.1	41.8	
24'	011.40.2800	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
	012.40.2800																	20	3076	151	30.1	41.8	
25	011.75.3150	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
	012.75.3150																	22	3471.6	155	41.5	57.4	
25'	011.50.3150	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
	012.50.3150																	22	3471.6	155	41.5	57.4	
26	011.75.3550	3776	3322	174	3686	3014	56	45	M42	84	8	3552	3547	162	12	150	0.5	20	3876	191	37.7	51.7	3500
	012.75.3550																	22	3889.6	174	41.5	57	
26"	011.50.3550	3776	3322	174	3686	3014	56	45	M42	84	10	3552	3548	162	12	150	0.5	20	3876	191	37.7	51.7	3500
	012.50.3550																	22	3889.6	174	41.5	57	
27	011.75.4000	4226	3772	174	4136	3864	60	45	M42	84	10	4002	3997	162	12	150	0.5	22	4329.6	194	41.5	57	4200
	012.75.4000																	25	4345	171	47.1	64.6	
27"	011.50.4000	4226	3772	174	4136	3864	60	45	M42	84	10	4002	3998	162	12	150	0.5	22	4329.6	194	41.5	57	4200
	012.50.4000																	25	4345	171	47.1	64.6	
28	011.75.4500	4726	4272	174	4636	4364	60	45	M42	84	10	4502	4497	162	12	150	0.5	22	4835.6	217	41.5	57	5100
	012.75.4500																	25	4845	191	47.1	64.6	
28"	011.50.4500	4726	4272	174	4636	4364	60	45	M42	84	10	4502	4498	162	12	150	0.5	22	4835.6	217	41.5	57	5100
	012.50.4500																	25	4845	191	47.1	64.6	

③ Internal Gear



013. 014

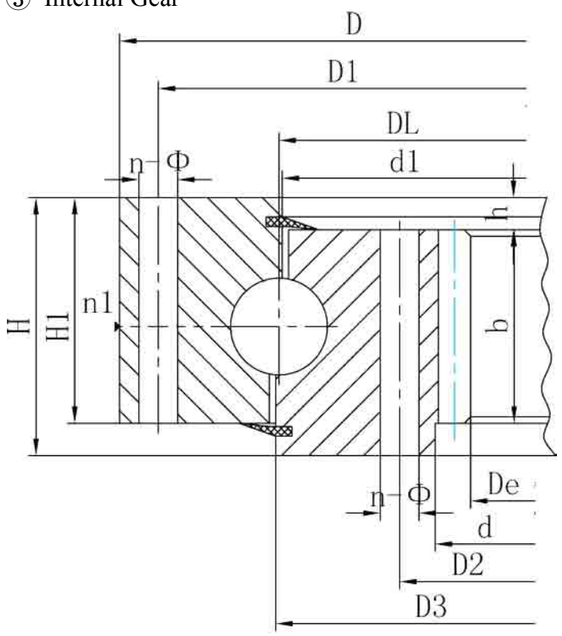
Characteristic of structure, performance and application

The single row four point contact ball slewing bearing is composed of two seat rings, which design in compact structure and light weight, steel ball contact with the circular raceway at four point, it can bear the axial force, radial force and the tilting moment at the same time.
It can be used for slewing conveyer, welding manipulator, light & medium duty crane, excavator, and other construction machinery.

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 change according to the user's application.
2. n-φcan 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.

No.	Internal gear D L mm	Dimensions			Mounting Dimensions						Structural Dimension					Gear data					Tooth force		weigh t kg
		D mm	d mm	H mm	D 1 mm	D 2 mm	n	Ø mm	dm mm	L mm	n 1	D 3 mm	d 1 mm	H 1 mm	h mm	b mm	x	M mm	D e mm	z	Norm alizing $Z10^4N$	Quenc hing $T10^4N$	
1	013.25.315	408	222	70	372	258	20	18	M16	32	2	316	314	60	10	50	0	5	190	40	2.9	4.4	49
2	013.25.355	448	262	70	412	298	20	18	M16	32	2	356	354	60	10	50	0	5	235	49	2.9	4.4	54
3	013.25.400	493	307	70	457	343	20	18	M16	32	2	401	399	60	10	50	0	6	276	48	3.5	5.3	62
4	013.25.450	543	357	70	507	393	20	18	M16	32	2	451	449	60	10	50	0	6	324	56	3.5	5.3	71
5	013.30.500	602	398	80	566	434	20	18	M16	32	4	501	498	70	10	60	0.5	5	367	74	3.7	5.2	85
	014.30.500																	6	368.4	62	4.5	6.2	
5'	013.25.500	602	398	80	566	434	20	18	M16	32	4	501	499	70	10	60	0.5	5	367	74	3.7	5.2	85
	014.25.500																	6	368.4	62	4.5	6.2	
6	013.30.560	662	458	80	626	494	20	18	M16	32	4	561	558	70	10	60	0.5	5	427	86	3.7	5.2	95
	014.30.560																	6	428.4	72	4.5	6.2	
6'	013.25.560	662	458	80	626	494	20	18	M16	32	4	561	559	70	10	60	0.5	5	427	86	3.7	5.2	95
	014.25.560																	6	428.4	72	4.5	6.2	
7	013.30.630	732	528	80	696	564	24	18	M16	32	4	631	628	70	10	60	0.5	6	494.4	83	4.5	6.2	110
	014.30.630																	8	491.2	62	6	8.3	
7'	013.25.630	732	528	80	696	564	24	18	M16	32	4	631	629	70	10	60	0.5	6	494.4	83	4.5	6.2	110
	014.25.630																	8	491.2	62	6	8.2	
8	013.30.710	812	608	80	776	644	24	18	M16	32	4	711	708	70	10	60	0.5	6	572.4	96	4.5	6.2	120
	014.30.710																	8	571.2	72	6	8.3	
8′	013.25.710	812	608	80	776	644	24	18	M16	32	4	711	709	70	10	60	0.5	6	572.4	96	4.5	6.2	120
	014.25.710																	8	571.2	72	6	8.9	
9	013.40.800	922	678	100	878	722	30	22	M20	40	6	801	798	90	10	80	0.5	8	635.2	80	8	11.1	220
	014.40.800																	10	634	64	10	14	
9'	013.30.800	922	678	100	878	722	30	22	M20	40	6	801	798	90	10	80	0.5	8	635.2	80	8	11.1	220
	014.30.800																	10	634	64	10	14.1	
10	013.40.900	1022	778	100	978	822	30	22	M20	40	6	901	898	90	10	80	0.5	8	739.2	93	8	11.1	240
	014.40.900																	10	734	74	10	14	
10′	013.30.900	1022	778	100	978	822	30	22	M20	40	6	901	898	90	10	80	0.5	8	739.2	93	8	11.1	240
	014.30.900																	10	734	74	10	14	
11	013.40.1000	1122	878	100	1078	922	36	22	M20	40	6	1001	998	90	10	80	0.5	10	824	83	10	14	270
	014.40.1000																	12	820.8	69	12	16.7	
11'	013.30.1000	1122	878	100	1078	922	36	22	M20	40	6	1001	998	90	10	80	0.5	10	824	83	10	14	270
	014.30.1000																	12	820.8	69	12	16.7	
12	013.40.1120	1242	998	100	1198	1042	36	22	M20	40	6	1121	1118	90	10	80	0.5	10	944	95	10	14	300
	014.40.1120																	12	940.8	79	12	16.7	
12′	013.30.1120	1242	998	100	1198	1042	36	22	M20	40	6	1121	1118	90	10	80	0.5	10	944	95	10	14	300
	014.30.1120																	12	940.8	79	12	16.7	
13	013.45.1250	1390	1110	110	1337	1163	40	26	M24	48	5	1252	1248	100	10	90	0.5	12	1049	88	13.5	18.8	420
	014.45.1250																	14	1042	75	15.8	21.9	
13'	013.35.1250	1390	1110	110	1337	1163	40	26	M24	48	5	1251	1248	100	10	90	0.5	12	1049	88	13.5	18.8	420
	014.35.1250																	14	1042	75	15.8	21.9	

③ Internal Gear



013. 014

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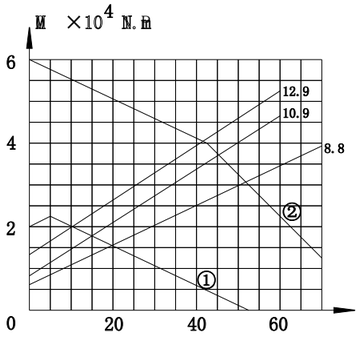
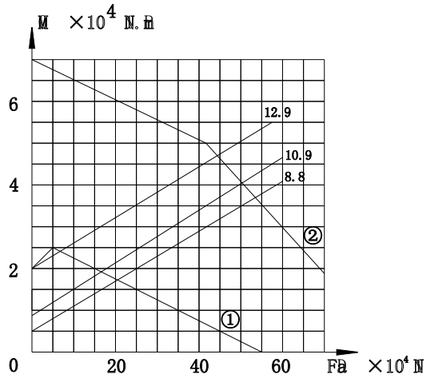
4. "K" is addendum reduction coefficient.

No	External gear D L mm	Dimensions			Mounting Dimensions						Structural Dimension					Gear data					Gear		weigh t kg
		D mm	d mm	H mm	D 1 mm	D 2 mm	n	Ø mm	dm mm	L mm	n 1	D 3 mm	d 1 mm	H 1 mm	h mm	b mm	x	M mm	D e mm	z	Norm alizing $Z10^4N$	Quenc hing $T10^4N$	
14	013.45.1400	1540	1260	110	1487	1313	40	26	M24	48	5	1402	1398	100	10	90	0.5	12	1193	100	13.5	18.8	480
	014.45.1400																	14	1196	86	15.5	21.9	
14′	013.35.1400	1540	1260	110	1487	1313	40	26	M24	48	5	1401	1398	100	10	90	0.5	12	1193	100	13.5	18.8	480
	014.35.1400																	14	1196	86	15.8	21.9	
15	013.45.1600	1740	1460	110	1687	1513	45	26	M24	48	5	1602	1598	100	10	90	0.5	14	1392	100	15.8	21.9	550
	014.45.1600																	16	1382	87	18.1	25	
15'	013.35.1600	1740	1460	110	1687	1513	45	26	M24	48	5	1601	1598	100	10	90	0.5	14	1392	100	15.8	21.9	550
	014.35.1600																	16	1382	87	18.1	25	
16	013.45.1800	1940	1660	110	1887	1713	45	26	M24	48	5	1802	1798	100	10	90	0.5	14	1574	113	15.8	21.9	610
	014.45.1800																	16	1574	99	18.1	25	
16′	013.35.1800	1940	1660	110	1887	1713	45	26	M24	48	5	1801	1798	100	10	90	0.5	14	1574	113	15.8	21.9	610
	014.35.1800																	16	1574	99	18.1	25	
17	013.60.2000	2178	1825	144	2110	1891	48	33	M30	60	8	2002	1998	132	12	120	0.5	16	1734	109	24.1	33.3	1100
	014.60.2000																	18	1735	97	27.1	37.5	
17'	013.40.2000	2178	1825	144	2110	1891	48	33	M30	60	8	2001	1998	132	12	120	0.5	16	1734	109	24.1	33.3	1100
	014.40.2000																	18	1735	97	27.1	37.5	
18	013.60.2240	2418	2065	144	2350	2131	48	33	M30	60	8	2242	2238	132	12	120	0.5	16	1990	125	24.1	33.3	1250
	014.60.2240																	18	1987	111	27.1	37.5	
18′	013.40.2240	2418	2065	144	2350	2131	48	33	M30	60	8	2241	2238	132	12	120	0.5	16	1990	125	24.1	33.3	1250
	014.40.2240																	18	1987	111	27.1	37.5	
19	013.60.2500	2678	2325	144	2610	2391	56	33	M30	60	8	2502	2498	132	12	120	0.5	18	2239	125	27.1	37.5	1400
	014.60.2500																	20	2228	112	30.1	41.8	
19'	013.40.2500	2678	2325	144	2610	2391	56	33	M30	60	8	2501	2498	132	12	120	0.5	18	2239	125	27.1	37.5	1400
	014.40.2500																	20	2228	112	30.1	41.8	
20	013.60.2800	2978	2625	144	2910	2691	56	33	M30	60	8	2802	2798	132	12	120	0.5	18	2527	141	27.1	37.5	1600
	014.60.2800																	20	2528	127	30.1	41.8	
20'	013.40.2800	2978	2625	144	2910	2691	56	33	M30	60	8	2802	2798	132	12	120	0.5	18	2527	141	27.1	37.5	1600
	014.40.2800																	20	2528	127	30.1	41.8	
21	013.75.3150	3376	2922	174	3286	3014	56	45	M42	84	8	3152	3147	162	12	150	0.5	20	2828	142	37.7	52.2	2800
	014.75.3150																	22	2825	129	41.5	57.4	
21'	013.50.3150	3376	2922	174	3286	3014	56	45	M42	84	8	3152	3147	162	12	150	0.5	20	2828	142	37.7	52.2	2800
	014.50.3150																	22	2825	129	41.5	57.4	
22	013.75.3550	3776	3322	174	3686	3014	56	45	M42	84	8	3552	3547	162	12	150	0.5	20	3228	162	37.7	51.7	3500
	014.75.3550																	22	3221	147	41.5	57	
22'	013.50.3550	3776	3322	174	3686	3014	56	45	M42	84	10	3552	3548	162	12	150	0.5	20	3228	162	37.7	51.7	3500
	014.50.3550																	22	3221	147	41.5	57	
23'	013.75.4000	4226	3772	174	4136	3864	60	45	M42	84	10	4002	3997	162	12	150	0.5	22	3661	167	41.5	57	4200
	014.75.4000																	25	3660	147	47.1	64.6	
23'	013.50.4000	4226	3772	174	4136	3864	60	45	M42	84	10	4002	3998	162	12	150	0.5	22	3661	167	41.5	57	4200
	014.50.4000																	25	3660	147	47.1	64.6	
24	013.75.4500	4726	4272	174	4636	4364	60	45	M42	84	10	4502	4497	162	12	150	0.5	22	4167	190	41.5	57	5100
	014.75.4500																	25	4160	167	47.1	64.6	
24'	013.50.4500	4726	4272	174	4636	4364	60	45	M42	84	10	4502	4498	162	12	150	0.5	22	4167	190	41.5	57	5100
	014.50.4500																	25	4160	167	47.1	64.6	

Single Row Four Point Contact Ball Series Load Curve



01. 20. 200



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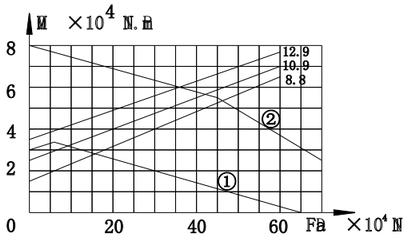

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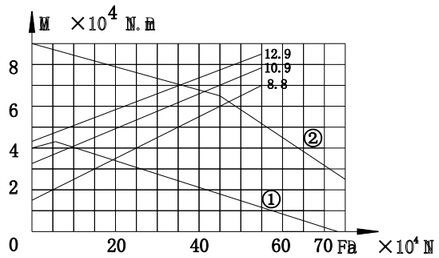
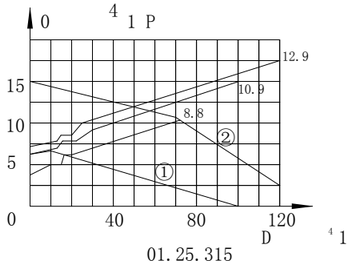
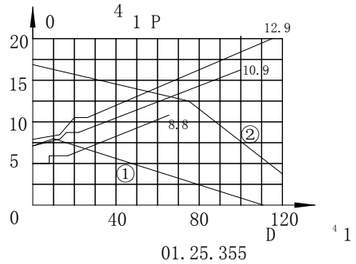


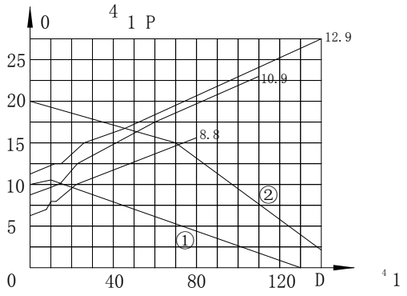
01. 20. 280



01. 25. 315



01. 25. 355



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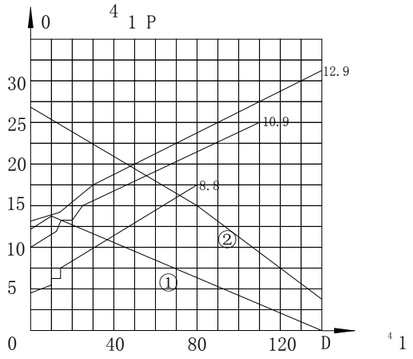

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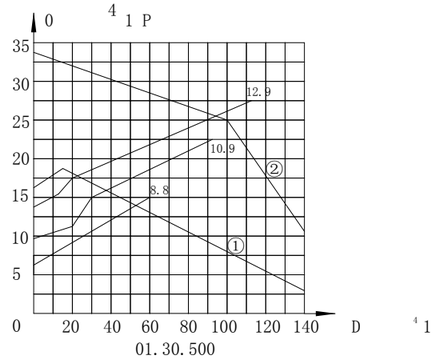
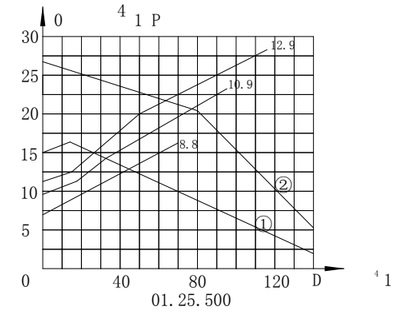
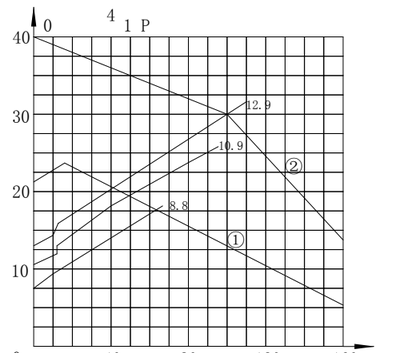


01. 30. 500



01. 25. 500



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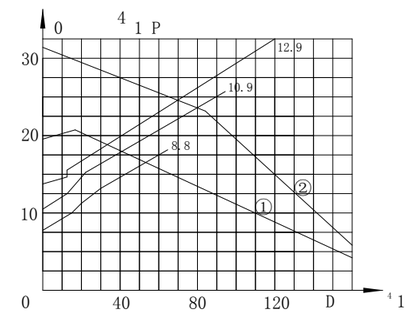

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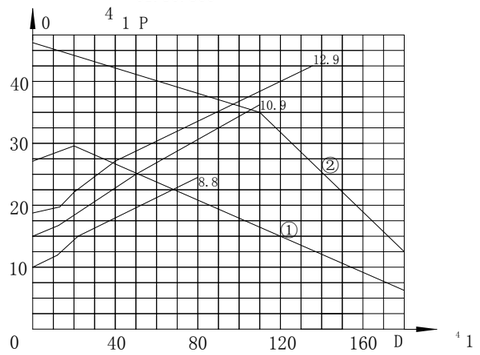

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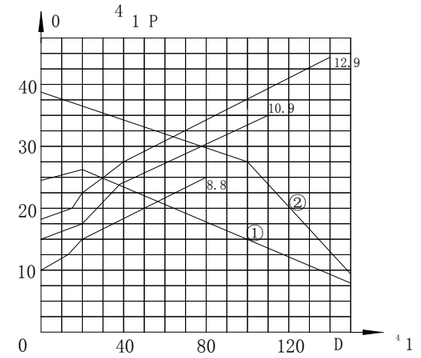

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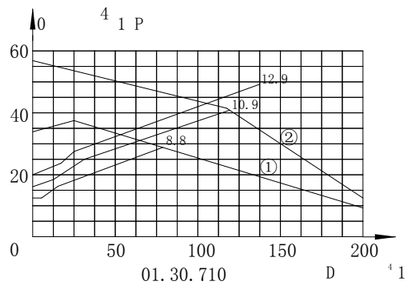

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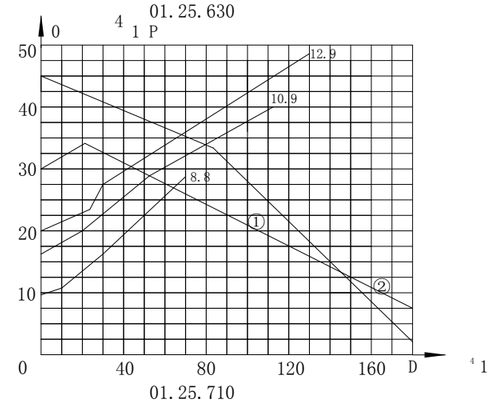

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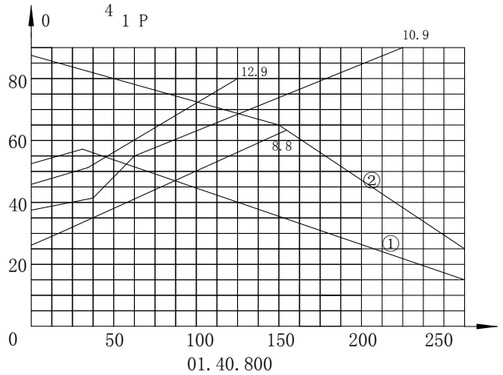

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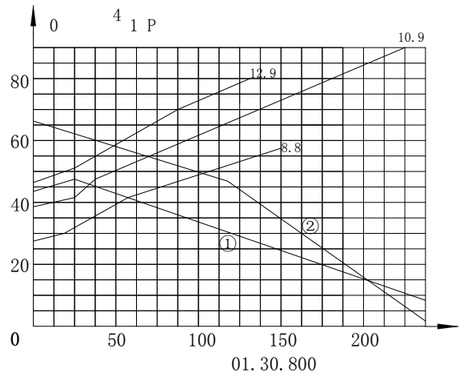

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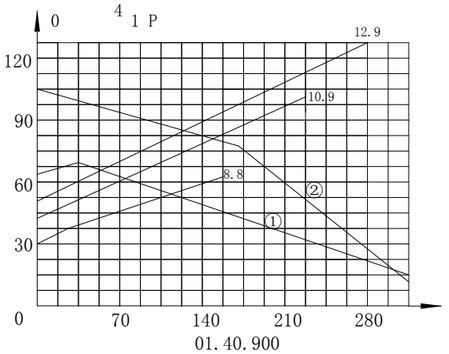

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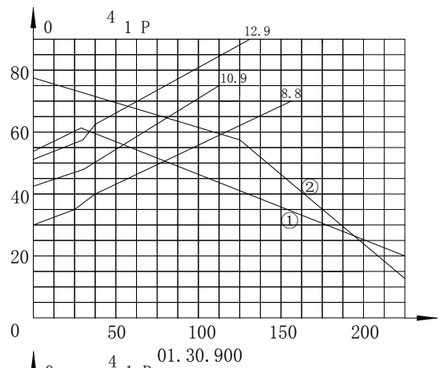

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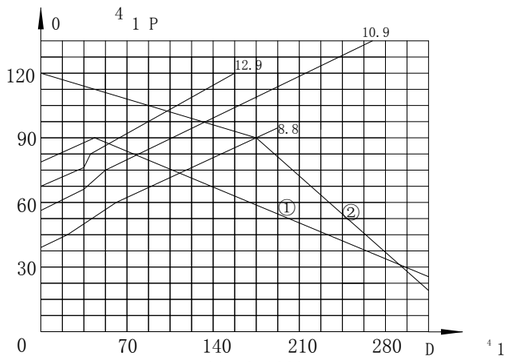

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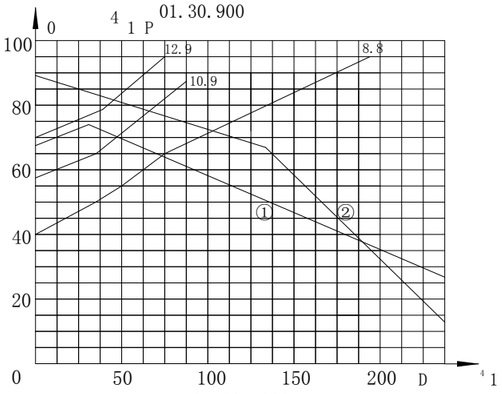

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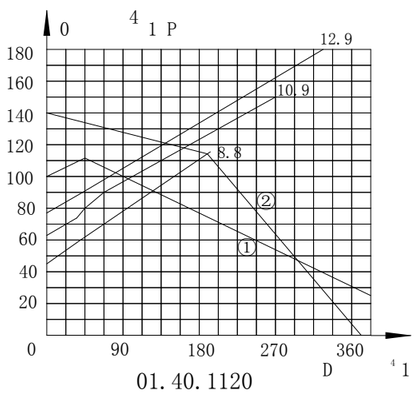

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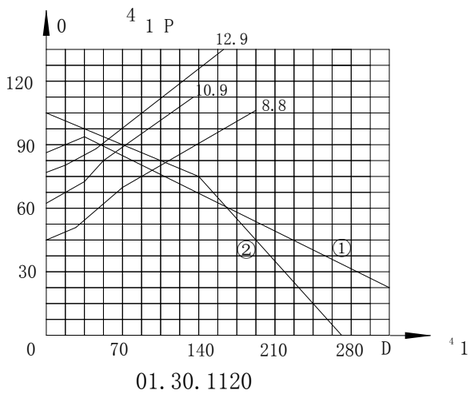

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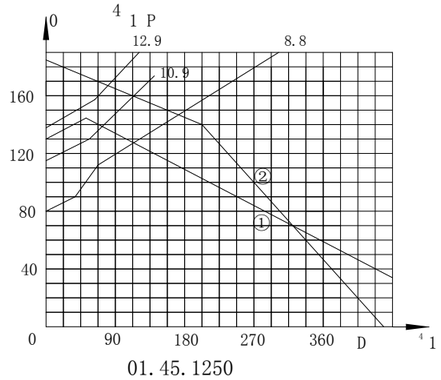

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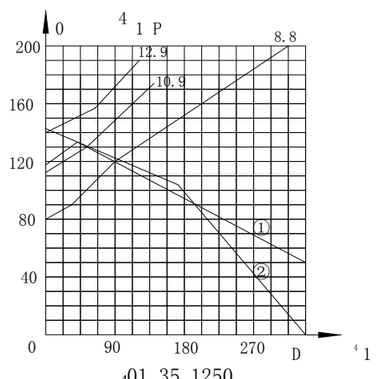

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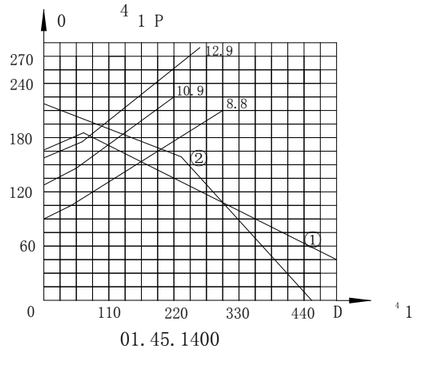

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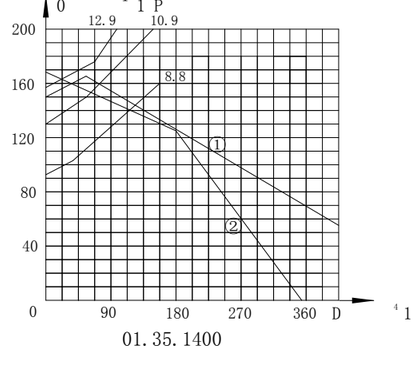

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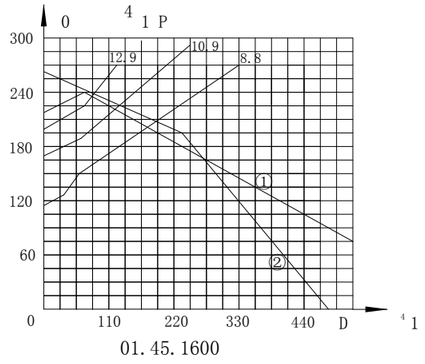

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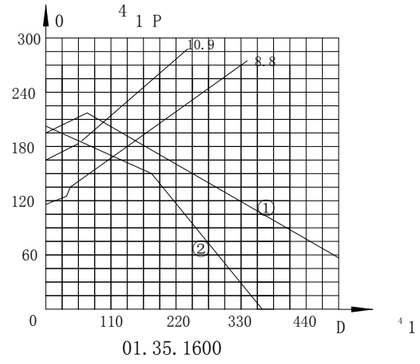

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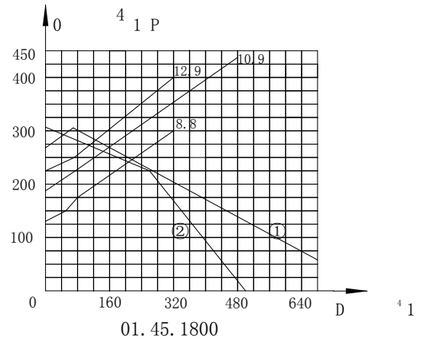

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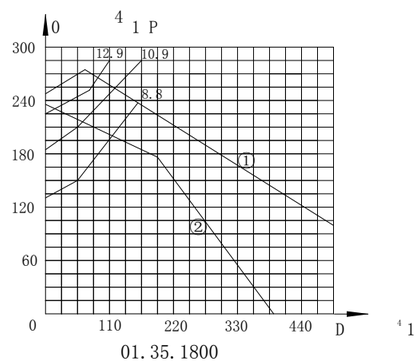

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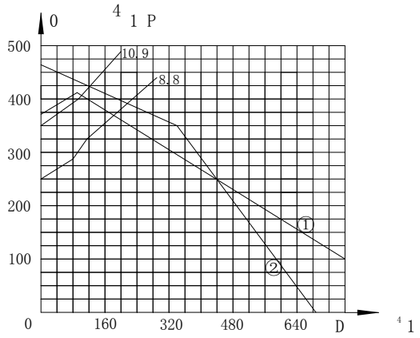

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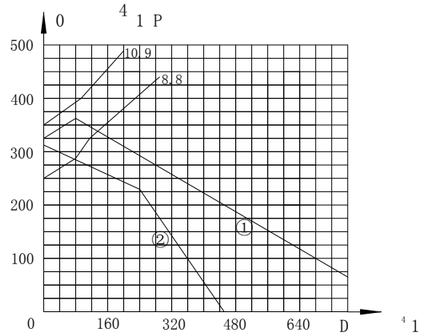

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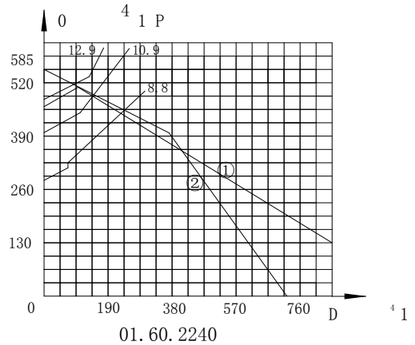

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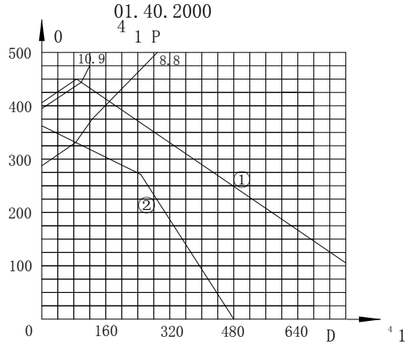

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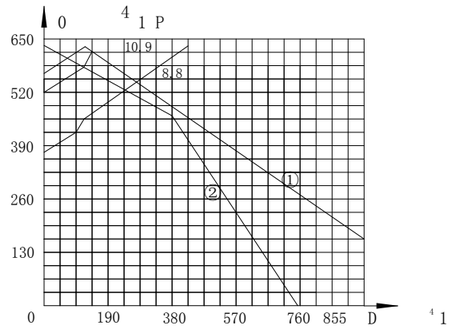

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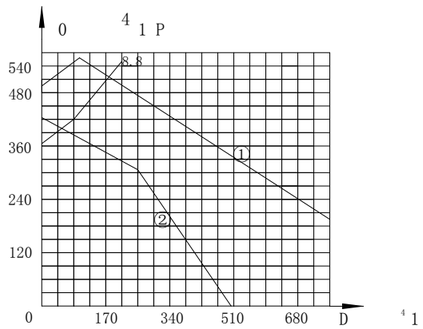

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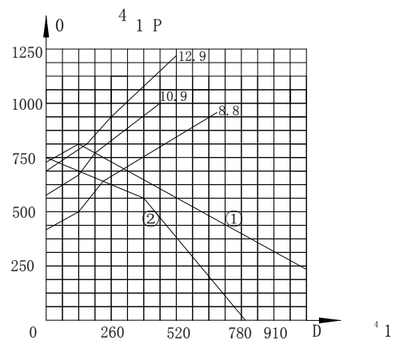

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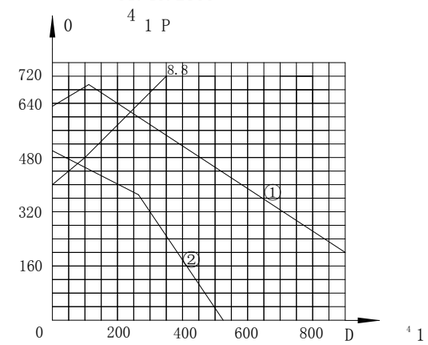

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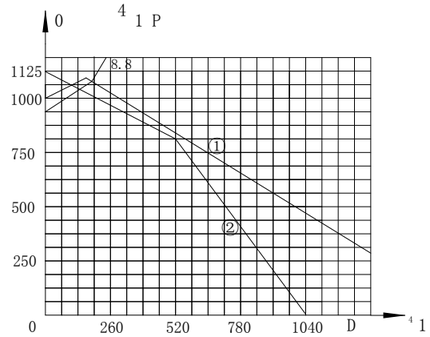

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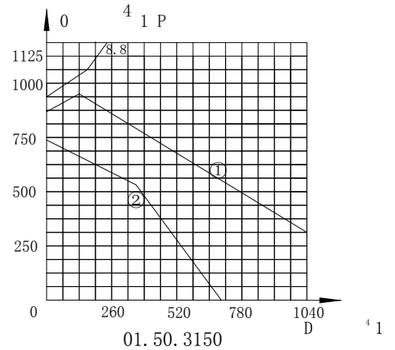
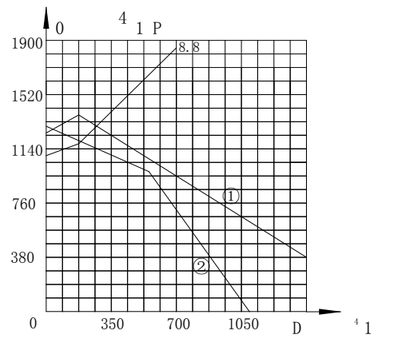


01. 50. 3150



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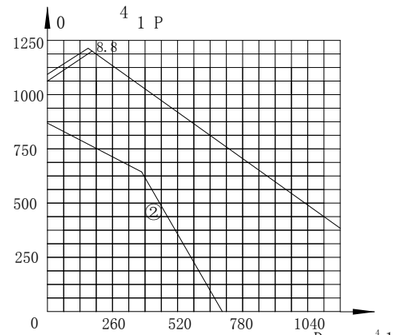

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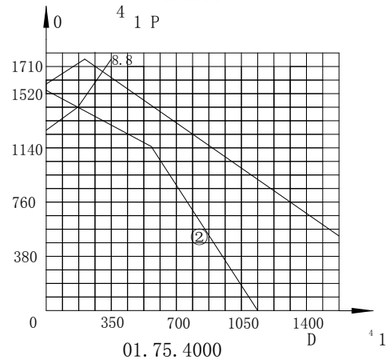

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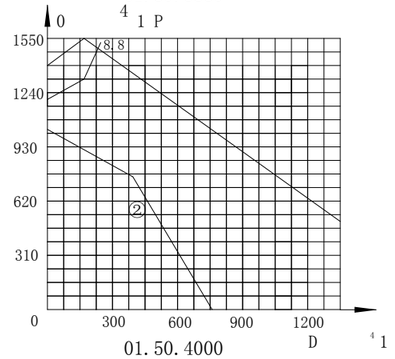

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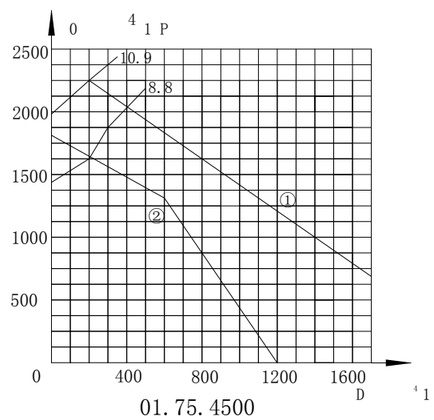

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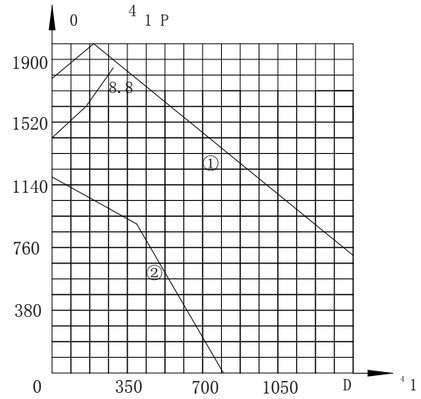


01. 50. 4500

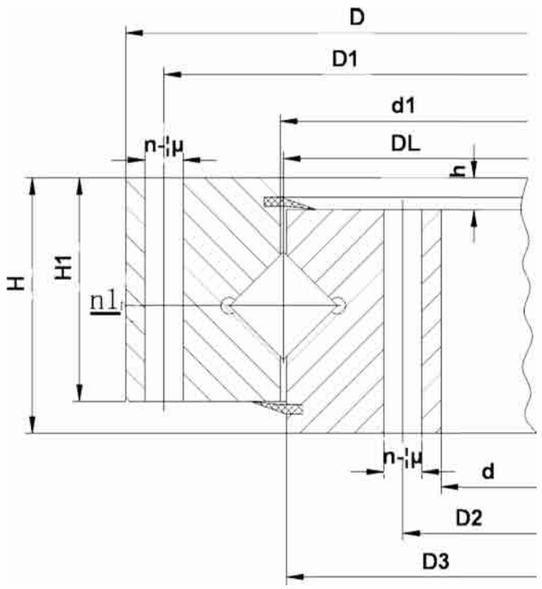
5.Single Row Crossed Roller Slewing Bearing

Characteristic of structure, performance and application

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.

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 change according to the user's application.
2. n-φcan 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.

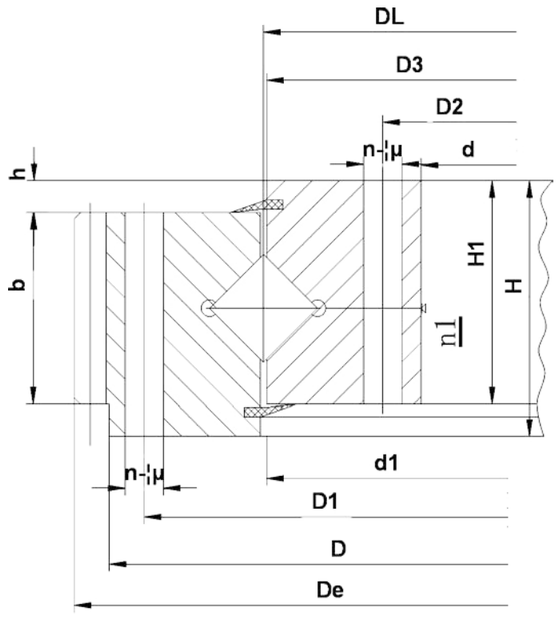
① Ungear (110 Series)



110

No.	Non gear D L mm	Dimensions			Mounting Dimensions						Structural Dimension					Gear data					Tooth force		weight kg
		D mm	d mm	H mm	D1 mm	D2 mm	n	Ø mm	dm mm	L mm	n1	D3 mm	d1 mm	H1 mm	h mm	b mm	x	m mm	De mm	z	Normalizing $Z10^4N$	Quenching $T10^4N$	
1	110.25.500	602	398	75	566	434	20	18	M16	32	4	498	502	65	10								80
2	110.25.560	662	458	75	626	494	20	18	M16	32	4	558	562	65	10								90
3	110.25.630	732	528	75	696	564	24	18	M16	32	4	628	632	65	10								100
4	110.25.710	812	608	75	776	644	24	18	M16	32	4	708	712	65	10								110
5	110.28.800	922	678	82	878	722	30	22	M20	40	6	798	802	72	10								170
6	110.28.900	1022	778	82	978	822	30	22	M20	40	6	898	902	72	10								190
7	110.28.1000	1122	878	82	1078	922	36	22	M20	40	6	998	1002	72	10								210
8	110.28.1120	1242	998	82	1198	1042	36	22	M20	40	6	1118	1122	72	10								230
9	110.32.1250	1390	1110	91	1337	1163	40	26	M24	48	5	1248	1252	81	10								350
10	110.32.1400	1540	1260	91	1487	1313	40	26	M24	48	5	1398	1402	81	10								400
11	110.32.1600	1740	1460	91	1687	1513	45	26	M24	48	5	1598	1602	81	10								440
12	110.32.1800	1940	1660	91	1887	1713	45	26	M24	48	5	1798	1802	81	10								500
13	110.40.2000	2178	1825	112	2110	1891	48	33	M30	60	8	1997	2003	100	12								900
14	110.40.2240	2418	2065	112	2350	2131	48	33	M30	60	8	2237	2243	100	12								1000
15	110.40.2500	2678	2325	112	2610	2391	56	33	M30	60	8	2497	2503	100	12								1100
16	110.40.2800	2978	2625	112	2910	2691	56	33	M30	60	8	2797	2803	100	12								1250
17	110.50.3150	3376	2922	134	3286	3014	56	45	M42	84	8	3147	3153	122	12								2150
18	110.50.3550	3776	3322	134	3686	3414	56	45	M42	84	8	3547	3553	122	12								2470
19	110.50.4000	4226	3772	134	4136	3864	60	45	M42	84	10	3997	4003	122	12								2800
20	110.50.4500	4726	4272	134	4636	4364	60	45	M42	84	10	4497	4503	122	12								3100

② External Gear（111/112 Series）



111. 112

Characteristic of structure, performance and application

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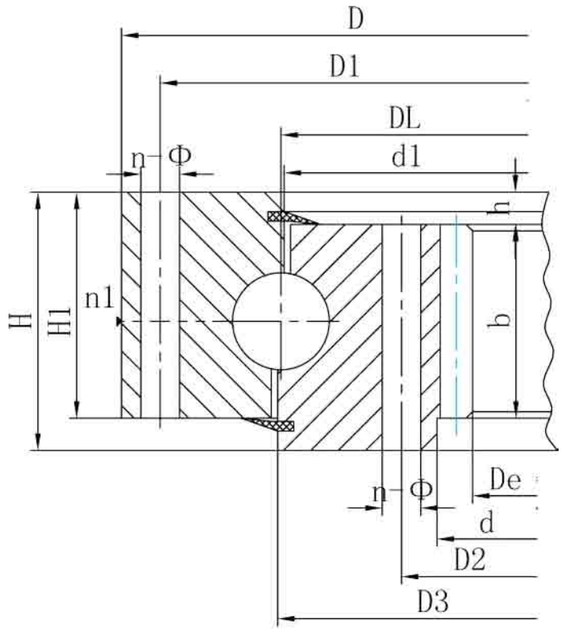
Note:

1. n1 is the nos of lubricating holes.Oil cup M10×1JB/T7940.1~JB/T7940.2.The Oil nipple's location can be change according to the user's application.
2. n-φcan 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.

No.	External gear D L mm	Dimensions			Mounting Dimensions						Structural Dimension					Gear data					Tooth force		weight kg
		D mm	d mm	H mm	D1 mm	D2 mm	n	Ø mm	dm mm	L mm	n1	D3 mm	d1 mm	H1 mm	h mm	b mm	x	m mm	De mm	z	Normalizing $Z10^4N$	Quenching $T10^4N$	
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	

③ Internal Gear (113/114Series)



013. 014

Characteristic of structure, performance and application

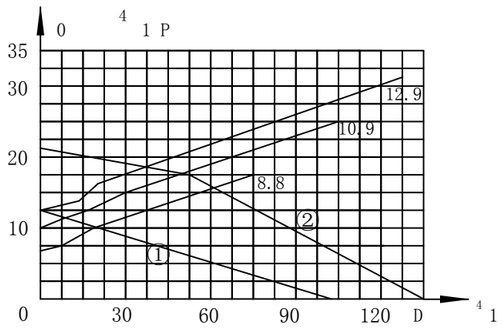
The single row crossed roller slewing bearing is composed of two seat rings, which design in compact structure and light weight, the clearance is small when assembly, so need high precision. The roller are 1:1 cross arranged, it can bear the axial force, tilting moment and relatively large radial force.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

Note:

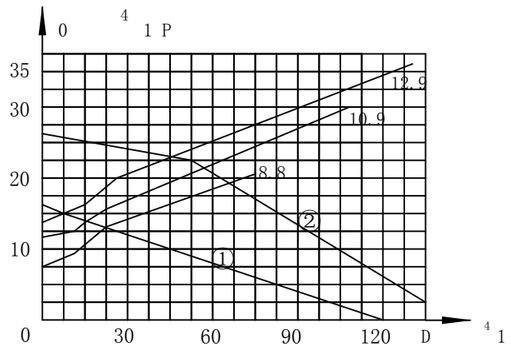
1. n1 is the nos of lubricating holes.Oil cup M10×1JB/T7940.1~JB/T7940.2.The Oil nipple's location can be change according to the user's application.
2. n-φcan change to tapped hole,the diameter of tapped hole is M,depth is 2M.
3. The tangential tooth force in the form is the max tooth force,the nominal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

No.	Internal gear D L mm	Dimensions			Mounting Dimensions						Structural Dimension					Gear data					Tooth force		weight kg
		D mm	d mm	H mm	D1 mm	D2 mm	n	Ø mm	dm mm	L mm	n1	D3 mm	d1 mm	H1 mm	h mm	b mm	x	m mm	De mm	z	Normalizing $Z10^4N$	Quenching $T10^4N$	
1	113.25.500	602	398	75	566	434	20	18	M16	32	4	498	502	65	10	60	0.5	5	367	74	3.7	5.2	80
	114.25.500																	6	368.4	62	4.5	6.2	
2	113.25.560	662	458	75	626	494	20	18	M16	32	4	558	562	65	10	60	0.5	5	427	86	3.7	5.2	90
	114.25.560																	6	428.4	72	4.5	6.2	
3	113.25.630	732	528	75	696	564	24	18	M16	32	4	628	632	65	10	60	0.5	6	494.4	83	4.5	6.2	100
	114.25.630																	8	491.2	62	6	8.3	
4	113.25.710	812	608	75	776	644	24	18	M16	32	4	708	712	65	10	60	0.5	6	572.4	96	4.5	6.2	110
	114.25.710																	8	571.2	72	6	8.3	
5	113.28.800	922	678	82	878	722	30	22	M20	40	6	798	802	72	10	65	0.5	8	635.2	80	6.5	9.1	170
	114.28.800																	10	634	64	8.1	11.4	
6	113.28.900	1022	778	82	978	822	30	22	M20	40	6	898	902	72	10	65	0.5	8	739.2	93	6.5	9.1	190
	114.28.900																	10	734	74	8.1	11.4	
7	113.28.1000	1122	878	82	1078	922	36	22	M20	40	6	998	1002	72	10	65	0.5	10	824	83	8.1	11.4	210
	114.28.1000																	12	820.8	69	9.7	13.6	
8	113.28.1120	1242	998	82	1198	1042	36	22	M20	40	6	1118	1122	72	10	65	0.5	10	944	95	8.1	11.4	230
	114.28.1120																	12	940.8	79	9.7	13.6	
9	113.32.1250	1390	1110	91	1337	1163	40	26	M24	48	5	1248	1252	81	10	75	0.5	12	1048.8	88	11.3	15.7	350
	114.32.1250																	14	1041.6	75	13.2	18.2	
10	113.32.1400	1540	1260	91	1487	1313	40	26	M24	48	5	1398	1402	81	10	75	0.5	12	1192.8	100	11.3	15.7	400
	114.32.1400																	14	1195.6	86	13.2	18.2	
11	113.32.1600	1740	1460	91	1687	1513	45	26	M24	48	5	1598	1602	81	10	75	0.5	14	1391.6	100	13.2	18.2	440
	114.32.1600																	16	1382.4	87	15.1	22.4	
12	113.32.1800	1940	1660	91	1887	1713	45	26	M24	48	5	1798	1802	81	10	75	0.5	14	1573.6	113	13.2	18.2	500
	114.32.1800																	16	1574.4	99	15.1	22.4	
13	113.40.2000	2178	1825	112	2110	1891	48	33	M30	60	8	1997	2003	100	12	90	0.5	16	1734.4	109	18.1	25	900
	114.40.2000																	18	1735.2	97	20.3	28.1	
14	113.40.2240	2418	2065	112	2350	2131	48	33	M30	60	8	2237	2243	100	12	90	0.5	16	1990.4	125	18.1	25	1000
	114.40.2240																	18	1987.2	111	20.3	28.1	
15	113.40.2500	2678	2325	112	2610	2391	56	33	M30	60	8	2497	2503	100	12	90	0.5	18	2239.2	125	20.3	28.1	1100
	114.40.2500																	20	2228	112	22.6	31.3	
16	113.40.2800	2978	2625	112	2910	2691	56	33	M30	60	8	2797	2803	100	12	90	0.5	18	2527.2	141	20.3	28.1	1250
	114.40.2800																	20	2528	127	22.6	31.3	
17	113.50.3150	3376	2922	134	3286	3014	56	45	M42	84	8	3147	3153	122	12	110	0.5	20	2828	142	27.6	38.3	2150
	114.50.3150																	22	2824.8	129	30.4	42.1	
18	113.50.3550	3776	3322	134	3686	3414	56	45	M42	84	8	3547	3553	122	12	110	0.5	20	3228	162	30.4	38.3	2470
	114.50.3550																	22	3220.8	147	30.4	42.1	
19	113.50.4000	4226	3772	134	4136	3864	60	45	M42	84	10	3997	4003	122	12	110	0.5	22	3660.8	167	30.4	42.1	2800
	114.50.4000																	25	3660	147	34.5	47.8	
20	113.50.4500	4726	4272	134	4636	4364	60	45	M42	84	10	4497	4503	122	12	110	0.5	22	4166.8	190	30.4	42.1	3100
	114.50.4500																	25	4160	167	34.5	47.8	

Single Row Crossed Roller Series Load Curve



11.25.500



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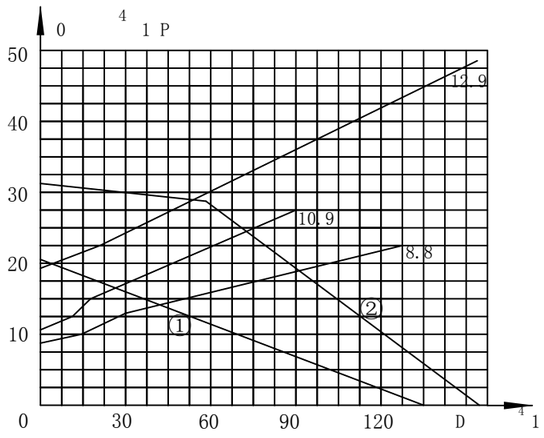

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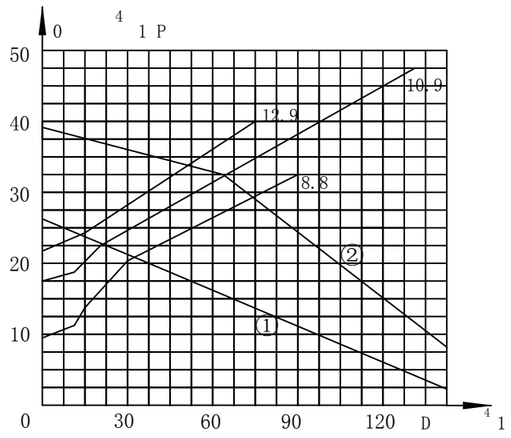

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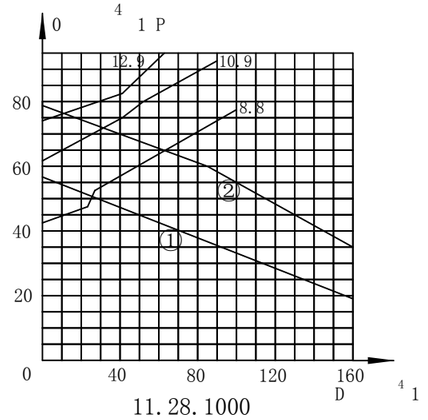

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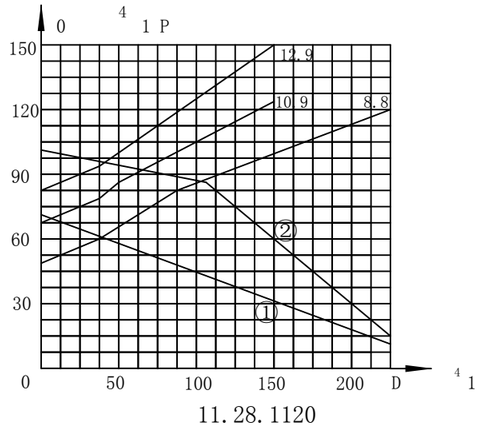

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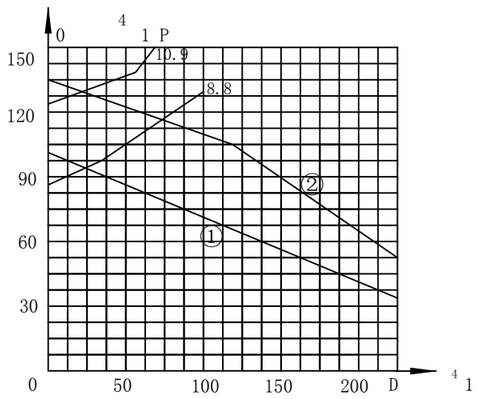

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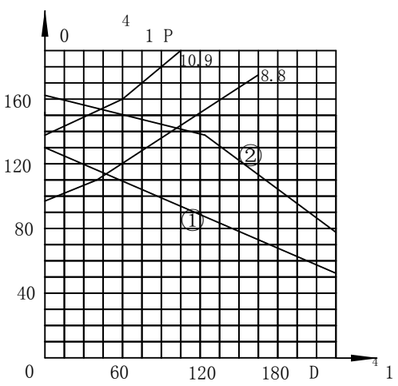

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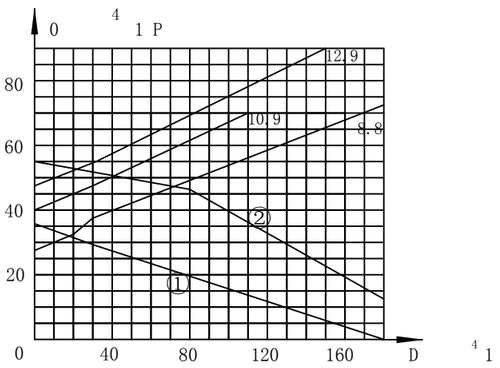

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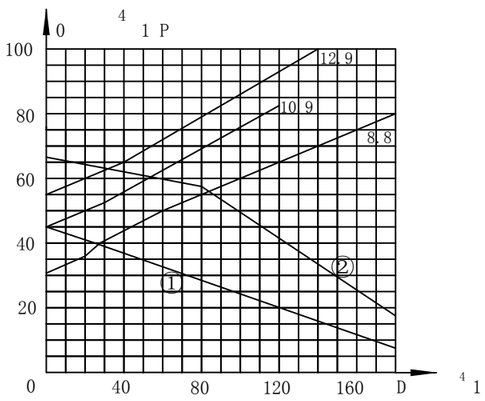

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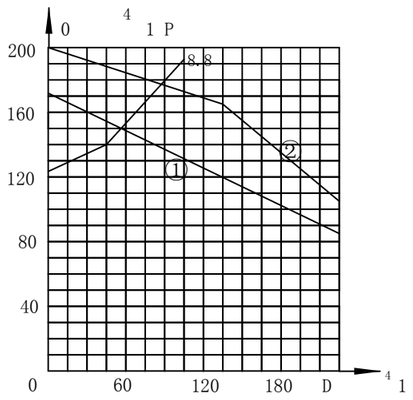

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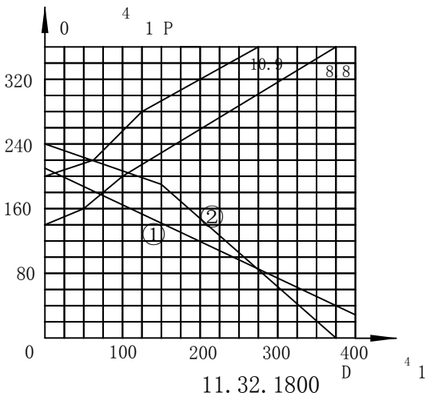
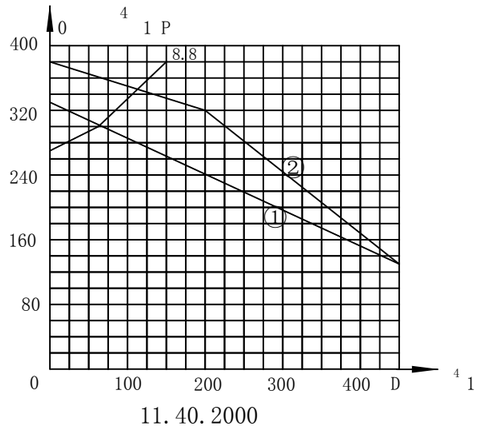
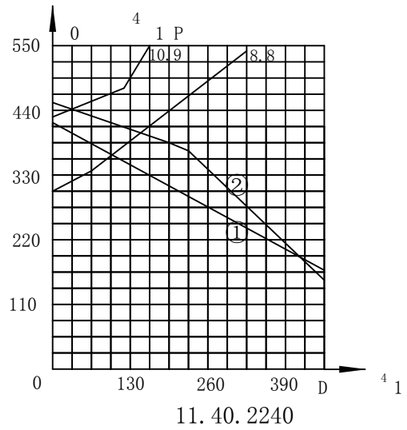


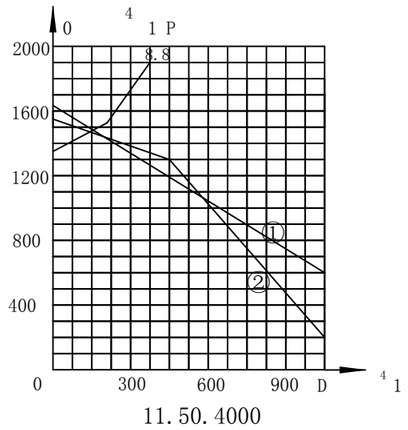
11.32.1800



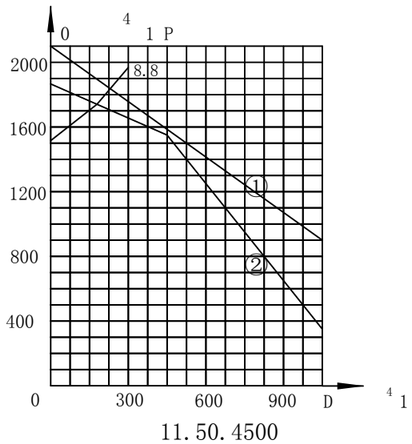
11. 40. 2000



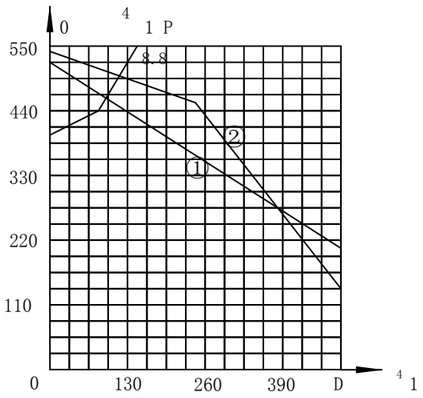
11. 40. 2240



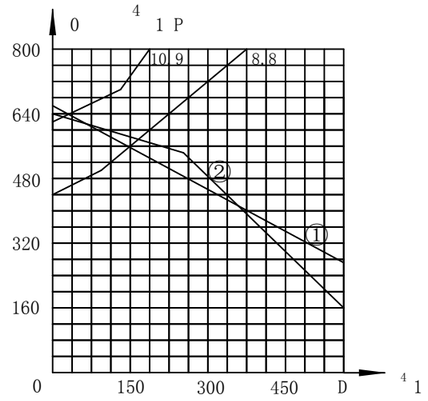
11. 50. 4000



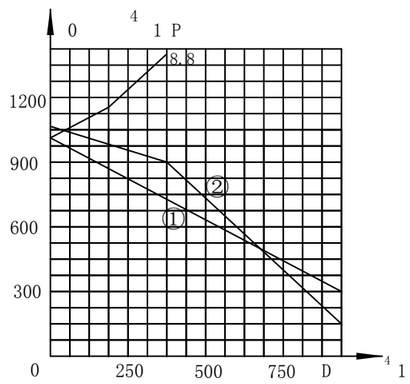
11. 50. 4500



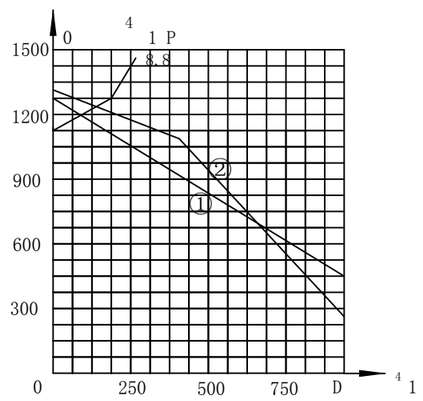
11. 40. 2500



11. 40. 2800



11. 50. 3150



11. 50. 3550

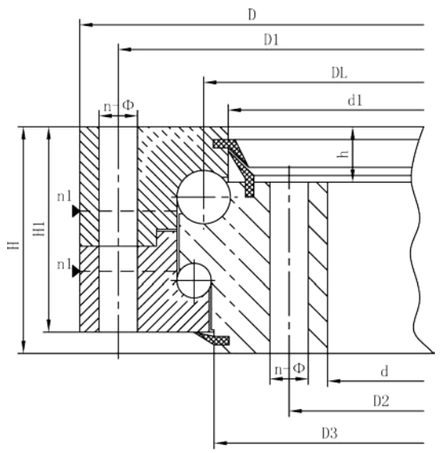
6.Double Row Ball Slewing Bearing

Characteristic of structure, performance and application

Double row ball slewing bearing has three seat ring, the steel ball and the spacing block can be directly arrange into the upper and lower races, two rows of upper and lower steel balls with different diameter are fitted according to the stress condition.
This kind of open assembly is very convenient, for the upper and lower bear raceway arc angles is 90°,which can bear large axial forces and tilting moment. When the radial force is greater than 0.1 times the axial force need to be specially designed the raceway.
Double row different ball slewing bearing's axial and radial size are relatively large and solid in structure, so it is specially suitable for the medium diameter tower cranes, truck mounted cranes etc. loading and unloading machinery.

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 change according to the user's application.
2. n-φcan 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.

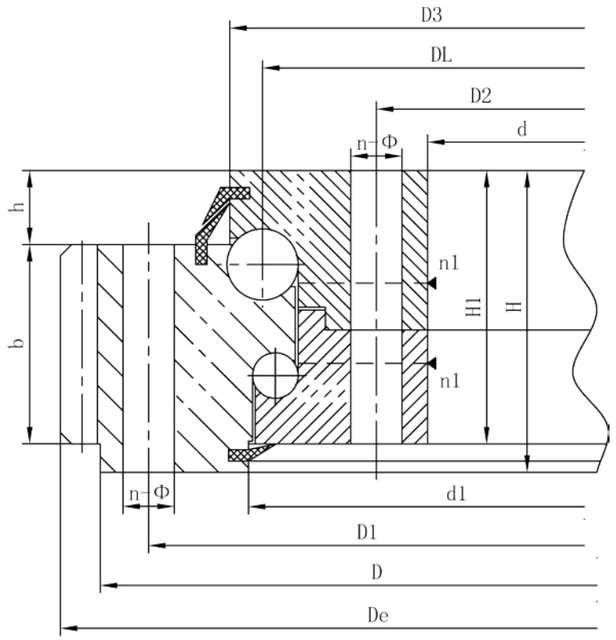
① Ungear (020 Series)



020

No.	Non gear D L mm	Dimensions			Mounting Dimensions				Structural Dimension					Gear data						Tooth force		weight kg
		D mm	d mm	H mm	D1 mm	D2 mm	n	Ø mm	D3 mm	d1 mm	n1	H1 mm	h mm	b mm	x	m mm	D e mm	z	Normalizing $Z10^4N$	Quenching $T10^4N$	
1	020.25.500	616	384	106	580	420	20	18	482	477	4	96	26								100
2	020.25.560	676	444	106	640	480	20	18	542	537	4	96	26								115
3	020.25.630	746	514	106	710	550	24	18	612	607	4	96	26								130
4	020.25.710	826	594	106	790	630	24	18	692	687	4	96	26								140
5	020.30.800	942	658	124	898	702	30	22	777	771	6	114	29								200
6	020.30.900	1042	758	124	998	802	30	22	877	871	6	114	29								250
7	020.30.1000	1142	858	124	1098	902	36	22	977	971	6	114	29								300
8	020.30.1120	1262	978	124	1218	1022	36	22	1097	1091	6	114	29								340
9	020.40.1250	1426	1074	160	1374	1126	40	26	1215	1214	5	150	39								580
10	020.40.1400	1576	1224	160	1524	1272	40	26	1365	1364	5	150	39								650
11	020.40.1600	1776	1424	160	1724	1476	45	26	1565	1564	5	150	39								750
12	020.40.1800	1976	1624	160	1924	1676	45	26	1765	1764	5	150	39								820
13	020.50.2000	2215	1785	190	2149	1851	48	33	1965	1962	8	178	47								1150
14	020.50.2240	2455	2025	190	2389	2091	48	33	2206	2202	8	178	47								1500
15	020.50.2500	2715	2285	190	2649	2351	56	33	2465	2462	8	178	47								1700
16	020.50.2800	3015	2585	190	2949	2651	56	33	2765	2762	8	178	47								1900
17	020.60.3150	3428	2872	226	3338	2962	56	45	3104	3102	8	214	56								3300
18	020.60.3550	3828	3272	226	3738	3362	56	45	3504	3502	8	214	56								3700
19	020.60.4000	4278	3722	226	4188	3812	60	45	3954	3952	10	214	56								4200
20	020.60.4500	4778	4222	226	4688	4312	60	45	4454	4452	10	214	56								4700

② External Gear（021/022 Series）



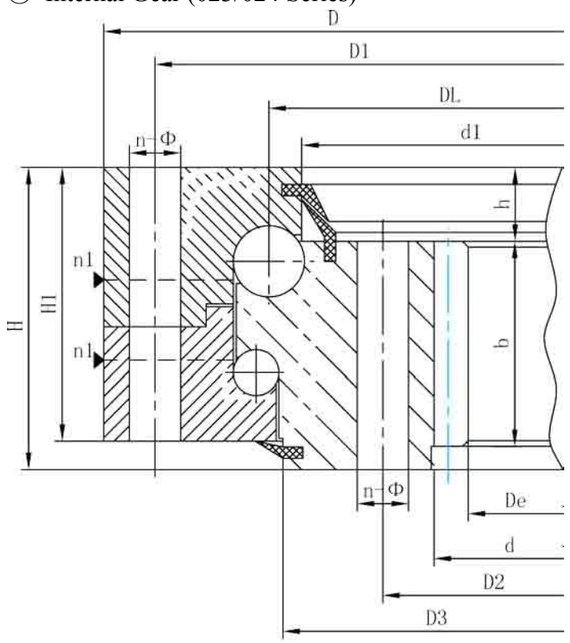
021. 022

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 change according to the user's application.
2. n-φcan 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.

No.	External gear D L mm	Dimensions			Mounting Dimensions				Structural Dimension					Gear data					Tooth force		weight kg
		D mm	d mm	H mm	D1 mm	D2 mm	n	Ø mm	D3 mm	d1 mm	n1	H1 mm	h mm	b mm	x	m mm	D e mm	z	Normalizing $Z10^4N$	Quenching $T10^4N$	
1	021.25.500	616	384	106	580	420	20	18	523	518	4	96	26	60	0.5	5	644	126	3.7	5.2	100
	022.25.500															6	646.8	105	4.5	6.2	
2	021.25.560	676	444	106	640	480	20	18	583	578	4	96	26	60	0.5	5	704	138	3.7	5.2	115
	022.25.560															6	706.8	115	4.5	6.2	
3	021.25.630	746	514	106	710	550	24	18	653	648	4	96	26	60	0.5	6	790.8	129	4.5	6.2	130
	022.25.630															8	790.4	96	6	8.3	
4	021.25.710	826	594	106	790	630	24	18	733	728	4	96	26	60	0.5	6	862.8	141	4.5	6.2	140
	022.25.710															8	862.4	105	6	8.3	
5	021.30.800	942	658	124	898	702	30	22	829	823	6	114	29	80	0.5	8	982.4	120	8	11.1	200
	022.30.800															10	988	96	10	14	
6	021.30.900	1042	758	124	998	802	30	22	929	923	6	114	29	80	0.5	8	1086.4	133	8	11.1	250
	022.30.900															10	1088	106	10	14	
7	021.30.1000	1142	858	124	1098	902	36	22	1029	1023	6	114	29	80	0.5	10	1198	117	10	14	300
	022.30.1000															12	1197.6	97	12	16.7	
8	021.30.1120	1262	978	124	1218	1022	36	22	1148	1143	6	114	29	80	0.5	10	1318	129	10	14	340
	022.30.1120															12	1317.6	107	12	16.7	
9	021.40.1250	1426	1074	160	1374	1126	40	26	1286	1282	5	150	39	90	0.5	12	1497.6	122	13.5	18.8	580
	022.40.1250															14	1495.2	104	15.8	21.9	
10	021.40.1400	1576	1224	160	1524	1272	40	26	1436	1432	5	150	39	90	0.5	12	1641.6	134	13.5	18.8	650
	022.40.1400															14	1649.2	115	15.8	21.9	
11	021.40.1600	1776	1424	160	1724	1476	45	26	1636	1635	5	150	39	90	0.5	14	1845.2	129	15.8	21.9	750
	022.40.1600															16	1852.8	113	18.1	25	
12	021.40.1800	1976	1624	160	1924	1676	45	26	1836	1835	5	150	39	90	0.5	14	2055.2	144	15.8	21.9	820
	022.40.1800															16	2060.8	126	18.1	25	
13	021.50.2000	2215	1785	190	2149	1851	48	33	2038	2035	8	178	47	120	0.5	16	2300.8	141	24.1	33.3	1150
	022.50.2000															18	2300.4	125	27.1	37.5	
14	021.50.2240	2455	2025	190	2389	2091	48	33	2278	2275	8	178	47	120	0.5	16	2540.8	156	24.1	33.3	1500
	022.50.2240															18	2552.4	139	27.1	37.5	
15	021.50.2500	2715	2285	190	2649	2351	56	33	2538	2532	8	178	47	120	0.5	18	2804.4	153	27.1	37.5	1700
	022.50.2500															20	2816	138	30.1	41.8	
16	021.50.2800	3015	2585	190	2949	2651	56	33	2838	2832	8	178	47	120	0.5	18	3110.4	170	27.1	37.5	1900
	022.50.2800															20	3116	153	30.1	41.8	
17	021.60.3150	3428	2872	226	3338	2962	56	45	3198	3196	8	214	56	150	0.5	20	3536	174	37.7	52.2	3300
	022.60.3150															22	3537.6	158	41.5	57.4	
18	021.60.3550	3828	3272	226	3738	3362	56	45	3598	3596	8	214	56	150	0.5	20	3936	194	37.7	52.2	3700
	022.60.3550															22	3933.6	176	41.5	57.4	
19	021.60.4000	4278	3722	226	4188	3812	60	45	4048	4046	10	214	56	150	0.5	22	4395.6	197	41.5	57.4	4200
	022.60.4000															25	4395	173	47.1	65.2	
20	021.60.4500	4778	4222	226	4688	4312	60	45	4548	4546	10	214	56	150	0.5	22	4879.6	219	41.5	57.4	4700
	022.60.4500															25	4895	193	47.1	65.2	

③ Internal Gear (023/024 Series)



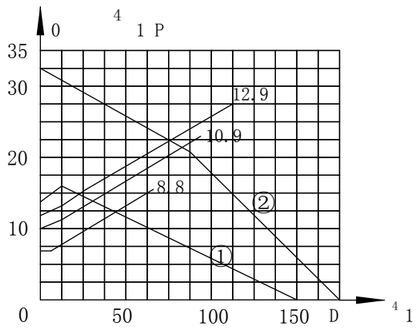
023. 024

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 change according to the user's application.
2. n-φcan 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.

No.	Non gear D L mm	Dimensions			Mounting Dimensions				Structural Dimension					Gear data					Tooth force		weight kg
		D mm	d mm	H mm	D1 mm	D2 mm	n	Ø mm	D3 mm	d1 mm	n1	H1 mm	h mm	b mm	x	m mm	D e mm	z	Normalizing $Z10^4N$	Quenching $T10^4N$	
1	023.25.500	616	384	106	580	420	20	18	482	477	4	96	26	60	0.5	5	257	72	3.7	5.2	100
	024.25.500															6	350.4	59	4.5	6.2	
2	023.25.560	676	444	106	640	480	20	18	542	537	4	96	26	60	0.5	5	417	84	3.7	5.2	115
	024.25.560															6	410.4	69	4.5	6.2	
3	023.25.630	746	514	106	710	550	24	18	612	607	4	96	26	60	0.5	6	482.4	81	4.5	6.2	130
	024.25.630															8	475.2	60	6	8.3	
4	023.25.710	826	594	106	790	630	24	18	692	687	4	96	26	60	0.5	6	560.4	94	4.5	6.2	140
	024.25.710															8	555.2	70	6	8.3	
5	023.30.800	942	658	124	898	702	30	22	777	771	6	114	29	80	0.5	8	619.2	78	8	11.1	200
	024.30.800															10	614	62	10	14	
6	023.30.900	1042	758	124	998	802	30	22	877	871	6	114	29	80	0.5	8	715.2	90	8	11.1	250
	024.30.900															10	714	72	10	14	
7	023.30.1000	1142	858	124	1098	902	36	22	977	971	6	114	29	80	0.5	10	814	82	10	14	300
	024.30.1000															12	796.8	67	12	16.7	
8	023.30.1120	1262	978	124	1218	1022	36	22	1097	1091	6	114	29	80	0.5	10	924	93	10	14	340
	024.30.1120															12	916.8	77	12	16.7	
9	023.40.1250	1426	1074	160	1374	1126	40	26	1215	1214	5	150	39	90	0.5	12	1012.8	85	13.5	18.8	580
	024.40.1250															14	1013.6	73	15.8	21.9	
10	023.40.1400	1576	1224	160	1524	1272	40	26	1365	1364	5	150	39	90	0.5	12	1156.8	97	13.5	18.8	650
	024.40.1400															14	1153.6	83	15.8	21.9	
11	023.40.1600	1776	1424	160	1724	1476	45	26	1565	1564	5	150	39	90	0.5	14	1349.6	97	15.8	21.9	750
	024.40.1600															16	1350.4	85	18.1	25	
12	023.40.1800	1976	1624	160	1924	1676	45	26	1765	1764	5	150	39	90	0.5	14	1545.6	111	15.8	21.9	820
	024.40.1800															16	1542.4	97	18.1	25	
13	023.50.2000	2215	1785	190	2149	1851	48	33	1965	1962	8	178	47	120	0.5	16	1702.4	107	24.1	33.3	1150
	024.50.2000															18	1699.2	95	27.1	37.5	
14	023.50.2240	2455	2025	190	2389	2091	48	33	2206	2202	8	178	47	120	0.5	16	1942.4	122	24.1	33.3	1500
	024.50.2240															18	1933.2	108	27.1	37.5	
15	023.50.2500	2715	2285	190	2649	2351	56	33	2465	2462	8	178	47	120	0.5	18	2203.2	123	27.1	37.5	1700
	024.50.2500															20	2188	110	30.1	41.8	
16	023.50.2800	3015	2585	190	2949	2651	56	33	2765	2762	8	178	47	120	0.5	18	2491.2	139	27.1	37.5	1900
	024.50.2800															20	2488	125	30.1	41.8	
17	023.60.3150	3428	2872	226	3338	2962	56	45	3104	3102	8	214	56	150	0.5	20	2768	139	37.7	52.2	3300
	024.60.3150															22	2758.8	126	41.5	57.4	
18	023.60.3550	3828	3272	226	3738	3362	56	45	3504	3502	8	214	56	150	0.5	20	3168	159	37.7	52.2	3700
	024.60.3550															22	3176.8	145	41.5	57.4	
19	023.60.4000	4278	3722	226	4188	3812	60	45	3954	3952	10	214	56	150	0.5	22	3616.8	165	41.5	57.4	4200
	024.60.4000															25	3610	145	47.1	65.2	
20	023.60.4500	4778	4222	226	4688	4312	60	45	4454	4452	10	214	56	150	0.5	22	4122.8	188	41.5	57.4	4700
	024.60.4500															25	4110	165	47.1	65.2	

Double Row different Ball Series Load



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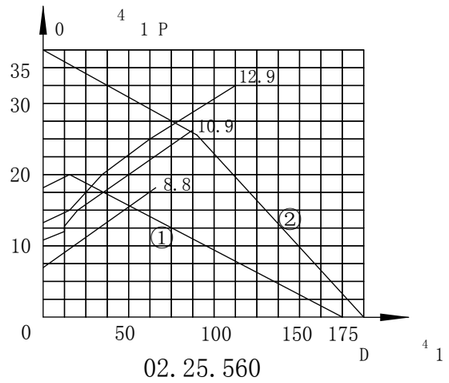

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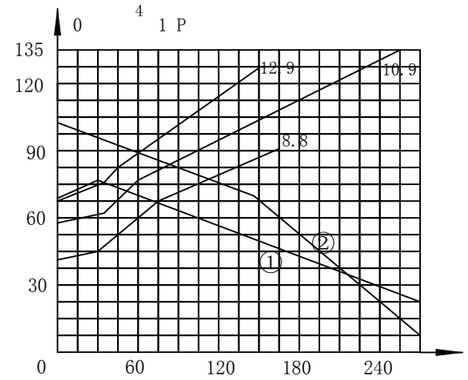

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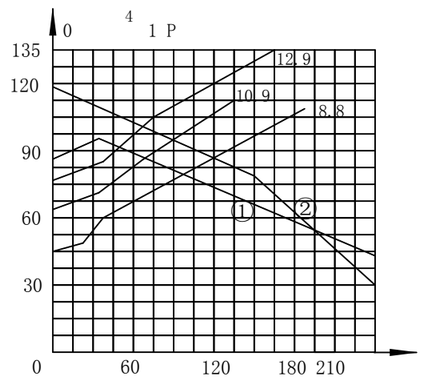

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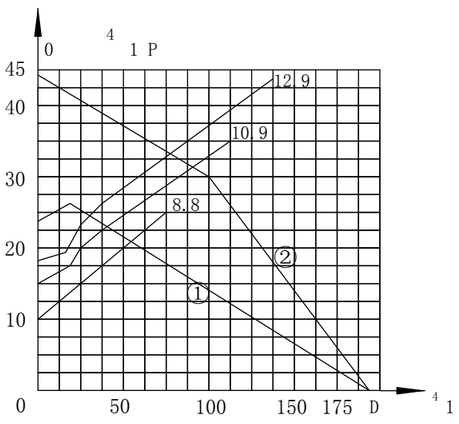

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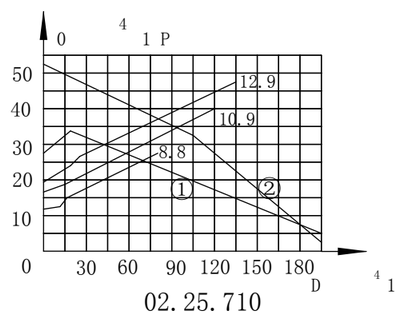

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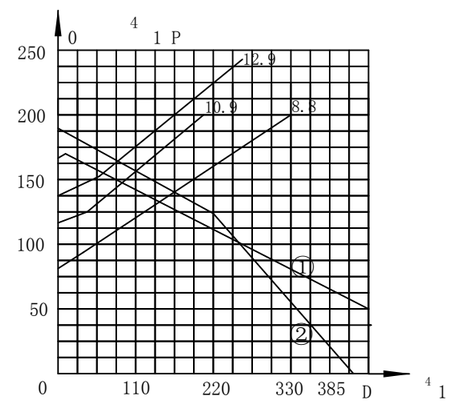

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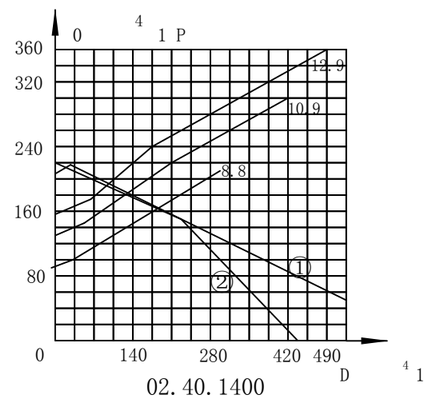

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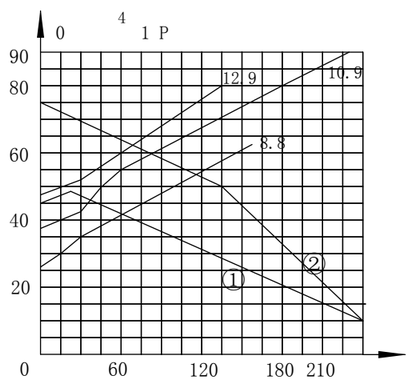

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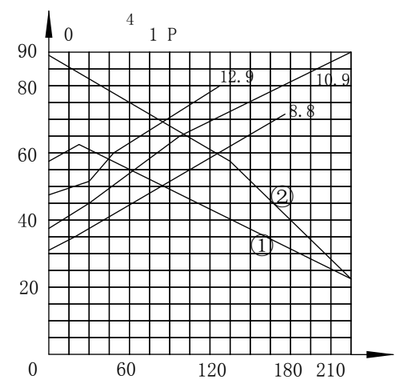

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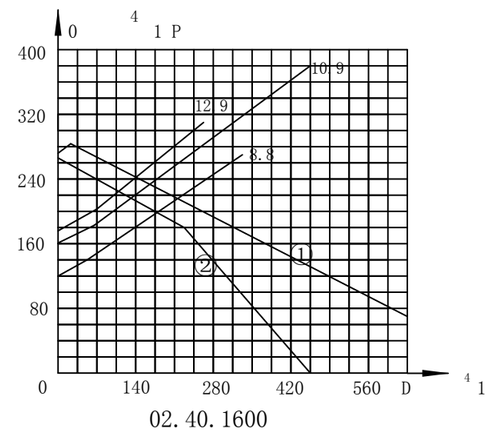

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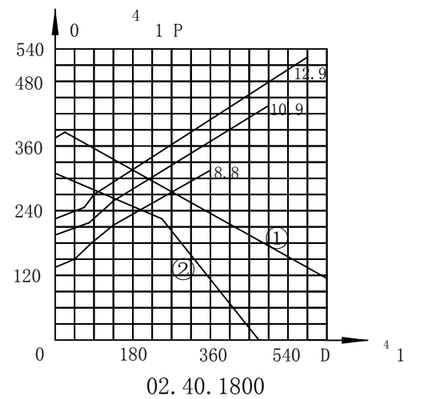

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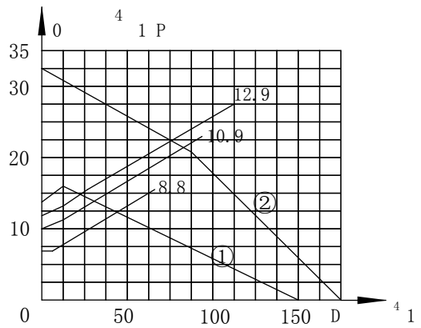

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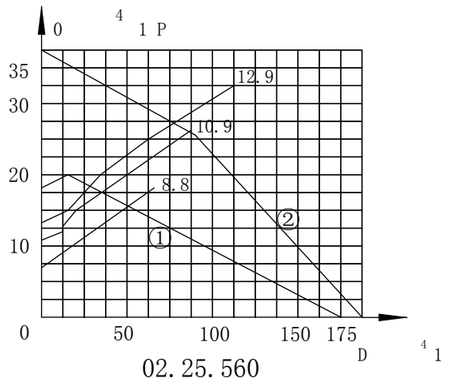

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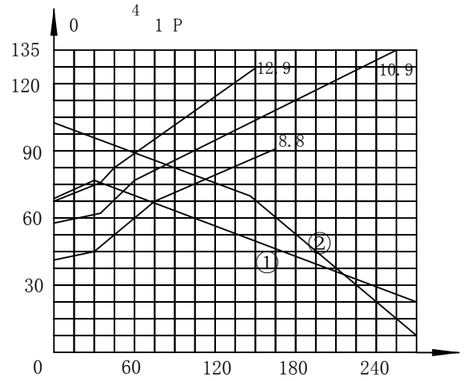

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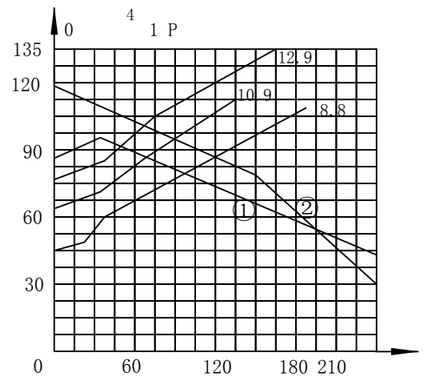

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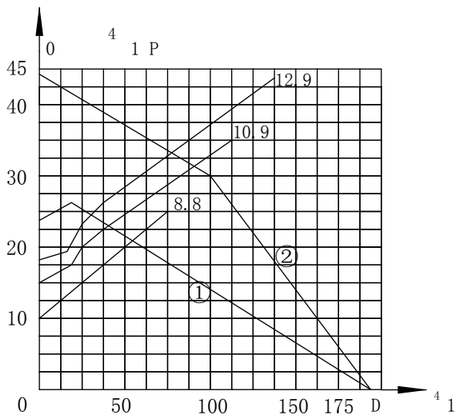

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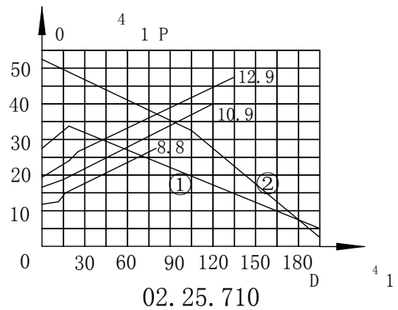

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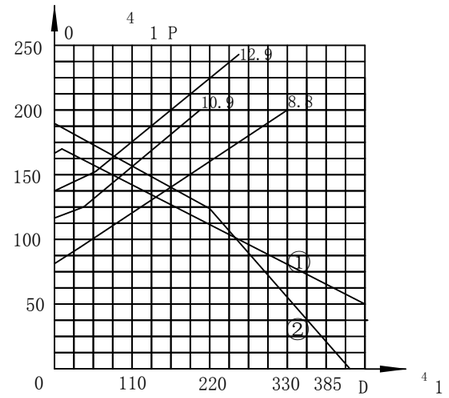

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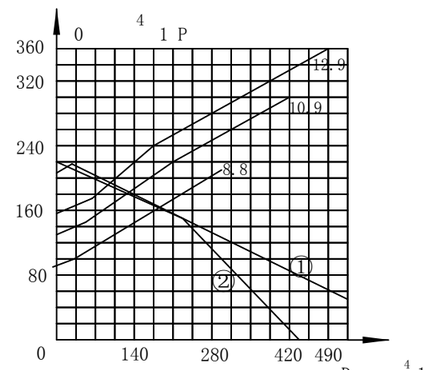

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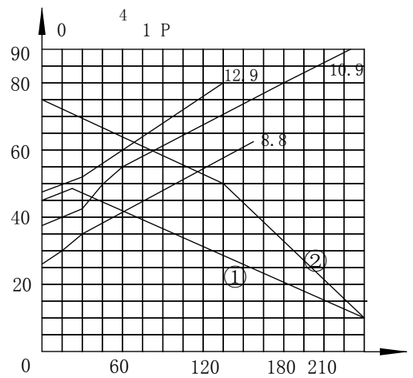

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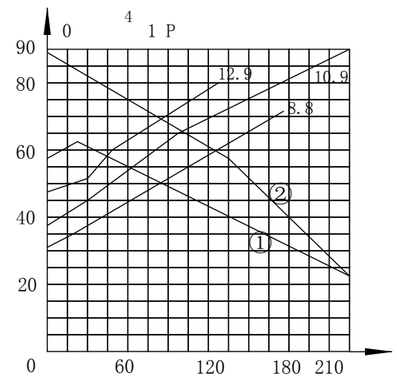

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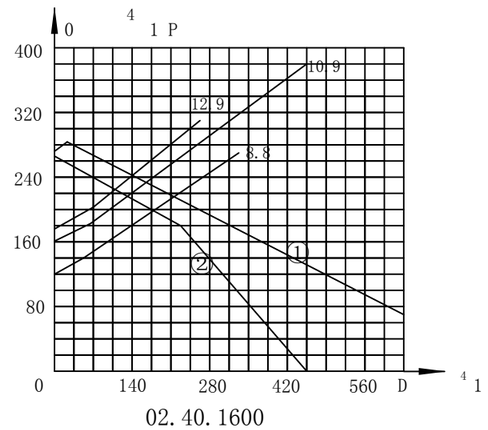

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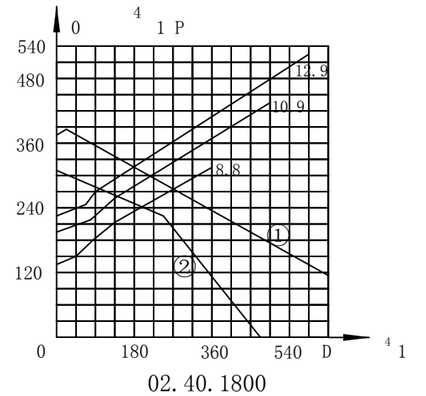


02. 40. 1800

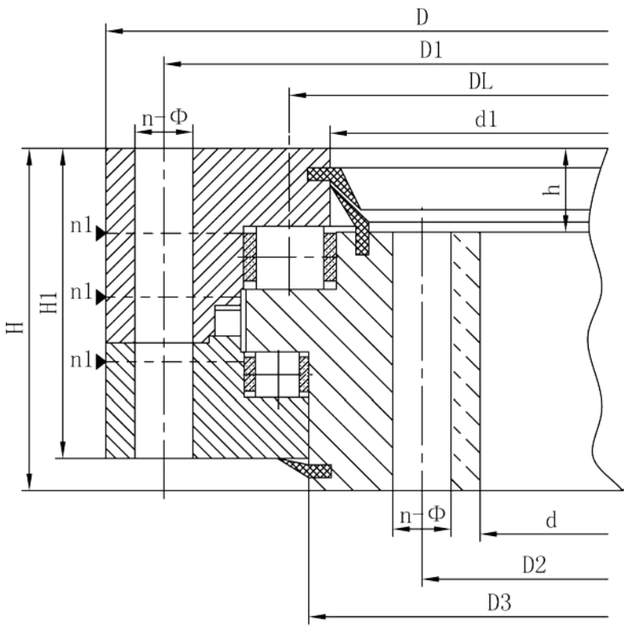
7.Three Row Roller Slewing Bearing

Characteristic of structure, performance and application

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.

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 change according to the user's application.
2. n-φcan 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.

⑪ Ungear (130 Series)



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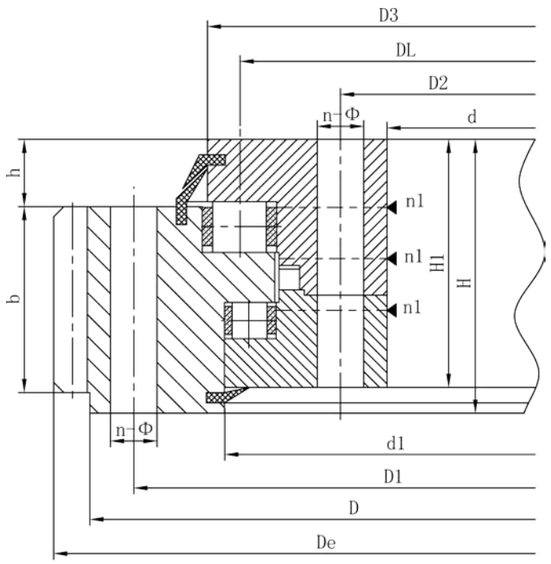
No.	Non gear D L mm	Dimensions			Mounting Dimensions						Structural Dimension					Gear data					Tooth force		weigh t kg
		D mm	d mm	H mm	D 1 mm	D 2 mm	n	Ø mm	dm mm	L mm	D3 mm	d1 mm	n 1	H 1 mm	h mm	b mm	x	m mm	D e mm	z	Norm alizing $Z10^4N$	Quenc hing $T10^4N$	
1	130.25.500	634	366	148	598	402	24	18	M16	32	474	463	4	10	32								224
2	130.25.560	694	426	148	658	462	24	18	M16	32	534	523	4	10	32								240
3	130.25.630	764	496	148	728	532	28	18	M16	32	604	593	4	10	32								270
4	130.25.710	844	576	148	808	612	28	18	M16	32	684	673	4	10	32								300
5	130.32.800	964	636	182	920	680	36	22	M20	40	770	759	4	10	40								500
6	130.32.900	1064	736	182	1020	780	36	22	M20	40	870	859	4	10	40								600
7	130.32.1000	1164	836	182	1120	880	40	22	M20	40	970	959	5	10	40								680
8	130.32.1120	1284	956	182	1240	1000	40	22	M20	40	1090	1079	5	10	40								820
9	130.40.1250	1445	1055	220	1393	1107	45	26	M24	48	1213	1200	5	10	50								1200
10	130.40.1400	1595	1205	220	1543	1257	45	26	M24	48	1363	1350	5	10	50								1300
11	130.40.1600	1795	1405	220	1743	1457	48	26	M24	48	1563	1550	6	10	50								1520
12	130.40.1800	1995	1605	220	1943	1657	48	26	M24	48	1763	1750	6	10	50								1750
13	130.45.2000	2221	1779	231	2155	1845	60	33	M30	60	1967	1945	6	12	54								2400
14	130.45.2240	2461	2019	231	2395	2085	60	33	M30	60	2207	2185	6	12	54								2700
15	130.45.2500	2721	2279	231	2655	2345	72	33	M30	60	2467	2445	8	12	54								3000
16	130.45.2800	3021	2579	231	2955	2645	72	33	M30	60	2767	2745	8	12	54								3400
17	130.50.3150	3432	2868	270	3342	2958	72	45	M42	84	3104	3090	8	12	65								5000
18	130.50.3550	3832	3268	270	3742	3358	72	45	M42	84	3504	3490	8	258	65								5680
19	130.50.4000	4282	3718	270	4192	3808	80	45	M42	84	3954	3940	8	258	65								6470
20	130.50.4500	4782	4218	270	4692	4308	80	45	M42	84	4454	4440	8	258	65								7320

② External Gear（131/132 Series）



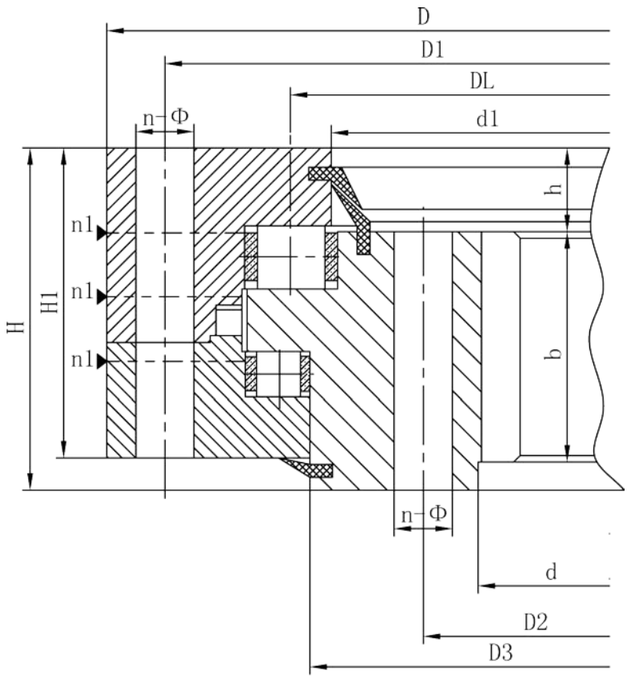
131. 132

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 change according to the user's application.
2. n-φcan 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.

No.	External gear D L mm	Dimensions			Mounting Dimensions						Structural Dimension					Gear data					Tooth force		weigh t kg
		D mm	d mm	H mm	D 1 mm	D 2 mm	n	Ø mm	dm mm	L mm	D3 mm	d1 mm	n 1	H 1 mm	h mm	b mm	x	m mm	D e mm	z	Norm alizing $Z10^4N$	Quenc hing $T10^4N$	
1	131.25.500	634	366	148	598	402	24	18	M16	32	537	526	4	138	32	80	0.5	5	664	130	5	6.7	224
	132.25.500																	6	664.8	108	6	8	
2	131.25.560	694	426	148	658	462	24	18	M16	32	597	586	4	138	32	80	0.5	5	724	142	5	6.7	240
	132.25.560																	6	724.8	118	6	8	
3	131.25.630	764	496	148	728	532	28	18	M16	32	667	656	4	138	32	80	0.5	6	808.8	132	6	8	270
	132.25.630																	8	806.4	98	8	11	
4	131.25.710	844	576	148	808	612	28	18	M16	32	747	736	4	138	32	80	0.5	6	886.8	145	6	8	300
	132.25.710																	8	886.4	108	8	11	
5	131.32.800	964	636	182	920	680	36	22	M20	40	841	830	4	172	40	120	0.5	8	1006.4	123	12.1	16.7	500
	132.32.800																	10	1008	98	15.1	20.9	
6	131.32.900	1064	736	182	1020	780	36	22	M20	40	941	930	4	172	40	120	0.5	8	1102.4	135	12.1	16.7	600
	132.32.900																	10	1108	108	15.1	20.9	
7	131.32.1000	1164	836	182	1120	880	40	22	M20	40	1041	1030	5	172	40	120	0.5	10	1218	119	15.1	20.9	680
	132.32.1000																	12	1221.6	99	18.1	25.1	
8	131.32.1120	1284	956	182	1240	1000	40	22	M20	40	1161	1150	5	172	40	120	0.5	10	1338	131	15.1	20.9	820
	132.32.1120																	12	1341.6	109	18.1	25.1	
9	131.40.1250	1445	1055	220	1393	1107	45	26	M24	48	1300	1287	5	210	50	150	0.5	12	1509.6	123	22.9	31.4	1200
	132.40.1250																	14	1509.2	105	26.3	36.6	
10	131.40.1400	1595	1205	220	1543	1257	45	26	M24	48	1450	1437	5	210	50	150	0.5	12	1665.6	136	22.9	31.4	1300
	132.40.1400																	14	1663.2	116	26.3	36.6	
11	131.40.1600	1795	1405	220	1743	1457	48	26	M24	48	1650	1637	6	210	50	150	0.5	14	1873.2	131	26.3	36.6	1520
	132.40.1600																	16	1868.8	114	30.2	41.7	
12	131.40.1800	1995	1605	220	1943	1657	48	26	M24	48	1850	1837	6	210	50	150	0.5	14	2069.2	145	26.3	36.6	1750
	132.40.1800																	16	2076.8	127	30.2	41.7	
13	131.45.2000	2221	1779	231	2155	1845	60	33	M30	60	2055	2033	6	219	54	160	0.5	16	2300.8	141	32.2	44.5	2400
	132.45.2000																	18	2300.4	125	36.2	50.1	
14	131.45.2240	2461	2019	231	2395	2085	60	33	M30	60	2295	2273	6	219	54	160	0.5	16	2556.8	157	32.2	44.5	2700
	132.45.2240																	18	2552.4	139	36.2	50.1	
15	131.45.2500	2721	2279	231	2655	2345	72	33	M30	60	2555	2533	8	219	54	160	0.5	18	2822.4	154	36.2	50.1	3000
	132.45.2500																	20	2816	138	40.2	55.6	
16	131.45.2800	3021	2579	231	2955	2645	72	33	M30	60	2855	2833	8	219	54	160	0.5	18	3110.4	170	36.2	50.1	3400
	132.45.2800																	20	3116	153	40.2	55.6	
17	131.50.3150	3432	2868	270	3342	2958	72	45	M42	84	3213	3196	8	258	65	180	0.5	20	3536	174	45.2	62.6	5000
	132.50.3150																	22	3537.6	158	49.8	68.9	
18	131.50.3550	3832	3268	270	3742	3358	72	45	M42	84	3613	3596	8	258	65	180	0.5	20	3936	194	45.2	62.6	5680
	132.50.3550																	22	3933.6	176	49.8	68.9	
19	131.50.4000	4282	3718	270	4192	3808	80	45	M42	84	4063	4046	8	258	65	180	0.5	22	4395.6	197	49.8	68.9	6470
	132.50.4000																	25	4395	173	56.5	78.3	
20	131.50.4500	4782	4218	270	4692	4308	80	45	M42	84	4563	4546	8	258	65	180	0.5	22	4901.6	220	49.8	68.9	7320
	132.50.4500																	25	4895	193	56.5	78.3	

③ Internal Gear (133/134 Series)



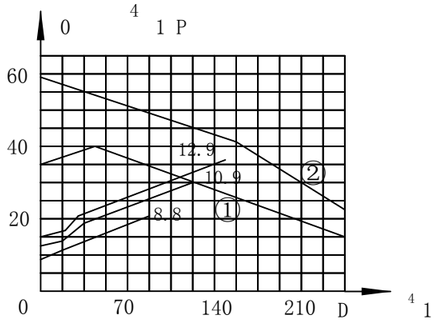
133. 134

Note:

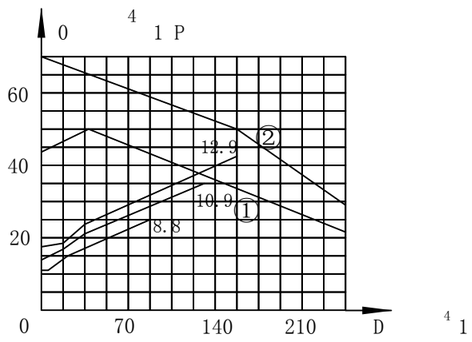
1. n1 is the nos of lubricating holes.Oil cup M10×1JB/T7940.1~JB/T7940.2.The Oil nipple's location can be change according to the user's application.
2. n-φcan change to tapped hole,the diameter of tapped hole is M,depth is 2M.
3. The tangential tooth force in the form is the max tooth force,the nominal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

No.	Internal gear D L mm	Dimensions			Mounting Dimensions						Structural Dimension					Gear data					Tooth force		weigh t kg
		D mm	d mm	H mm	D 1 mm	D 2 mm	n	Ø mm	dm mm	L mm	D3 mm	d1 mm	n 1	H 1 mm	h mm	b mm	x	m mm	D e mm	z	Norm alizing $Z10^4N$	Quenc hing $T10^4N$	
1	133.25.500	634	366	148	598	402	24	18	M16	32	474	463	4	10	32	80	0.5	5	337	68	5	6.7	224
	134.25.500																	6	338.4	57	6	8	
2	133.25.560	694	426	148	658	462	24	18	M16	32	534	523	4	10	32	80	0.5	5	397	80	5	6.7	240
	134.25.560																	6	398.4	67	6	8	
3	133.25.630	764	496	148	728	532	28	18	M16	32	604	593	4	10	32	80	0.5	6	458.4	77	6	8	270
	134.25.630																	8	459.2	58	8	11	
4	133.25.710	844	576	148	808	612	28	18	M16	32	684	673	4	10	32	80	0.5	6	536.4	90	6	8	300
	134.25.710																	8	539.2	68	8	11	
5	133.32.800	964	636	182	920	680	36	22	M20	40	770	759	4	10	40	120	0.5	8	595.2	75	12.1	16.7	500
	134.32.800																	10	594	60	15.1	20.9	
6	133.32.900	1064	736	182	1020	780	36	22	M20	40	870	859	4	10	40	120	0.5	8	691.2	87	12.1	16.7	600
	134.32.900																	10	694	70	15.1	20.9	
7	133.32.1000	1164	836	182	1120	880	40	22	M20	40	970	959	5	10	40	120	0.5	10	784	79	15.1	20.9	680
	134.32.1000																	12	784.8	66	18.1	25.1	
8	133.32.1120	1284	956	182	1240	1000	40	22	M20	40	1090	1079	5	10	40	120	0.5	10	904	91	15.1	20.9	820
	134.32.1120																	12	904.8	76	18.1	25.1	
9	133.40.1250	1445	1055	220	1393	1107	45	26	M24	48	1213	1200	5	10	50	150	0.5	12	988.8	83	22.9	31.4	1200
	134.40.1250																	14	985.6	71	26.3	36.6	
10	133.40.1400	1595	1205	220	1543	1257	45	26	M24	48	1363	1350	5	10	50	150	0.5	12	1144.8	96	22.9	31.4	1300
	134.40.1400																	14	1139.6	82	26.3	36.6	
11	133.40.1600	1795	1405	220	1743	1457	48	26	M24	48	1563	1550	6	10	50	150	0.5	14	1335.6	96	26.3	36.6	1520
	134.40.1600																	16	1334.4	84	30.2	41.7	
12	133.40.1800	1995	1605	220	1943	1657	48	26	M24	48	1763	1750	6	10	50	150	0.5	14	1531.6	110	26.3	36.6	1750
	134.40.1800																	16	1526.4	96	30.2	41.7	
13	133.45.2000	2221	1779	231	2155	1845	60	33	M30	60	1967	1945	6	12	54	160	0.5	16	1702.4	107	32.2	44.5	2400
	134.45.2000																	18	1699.2	95	36.2	50.1	
14	133.45.2240	2461	2019	231	2395	2085	60	33	M30	60	2207	2185	6	12	54	160	0.5	16	1926.4	121	32.2	44.5	2700
	134.45.2240																	18	1933.2	108	36.2	50.1	
15	133.45.2500	2721	2279	231	2655	2345	72	33	M30	60	2467	2445	8	12	54	160	0.5	18	2185.2	122	36.2	50.1	3000
	134.45.2500																	20	2188	110	40.2	55.6	
16	133.45.2800	3021	2579	231	2955	2645	72	33	M30	60	2767	2745	8	12	54	160	0.5	18	2491.2	139	36.2	50.1	3400
	134.45.2800																	20	2488	125	40.2	55.6	
17	133.50.3150	3432	2868	270	3342	2958	72	45	M42	84	3104	3090	8	12	65	180	0.5	20	2768	139	45.2	62.6	5000
	134.50.3150																	22	2758.8	126	49.8	68.9	
18	131.50.3550	3832	3268	270	3742	3358	72	45	M42	84	3504	3490	8	258	65	180	0.5	20	3168	159	45.2	62.6	5680
	132.50.3550																	22	3154.8	144	49.8	68.9	
19	131.50.4000	4282	3718	270	4192	3808	80	45	M42	84	3954	3940	8	258	65	180	0.5	22	3116.8	165	49.8	68.9	6470
	132.50.4000																	25	3610	145	56.5	78.3	
20	131.50.4500	4782	4218	270	4692	4308	80	45	M42	84	4454	4440	8	258	65	180	0.5	22	4122.8	188	49.8	68.9	7320
	132.50.4500																	25	4110	165	56.5	78.3	

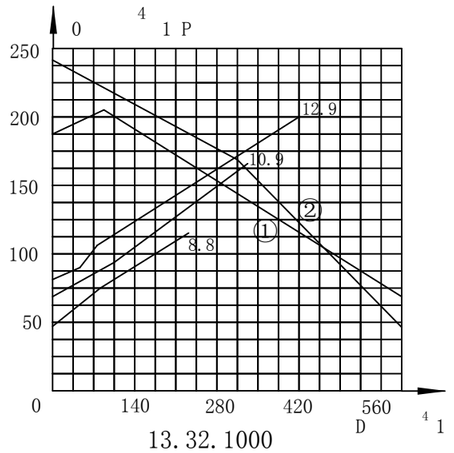
Three Row Roller Series Load Curve



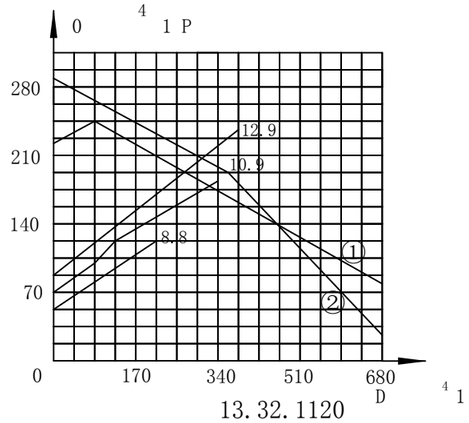
13.25.500



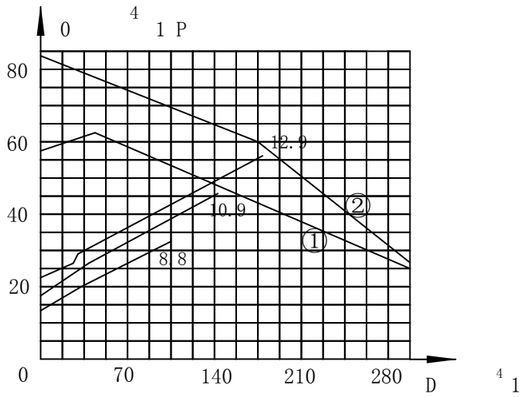
13.25.560



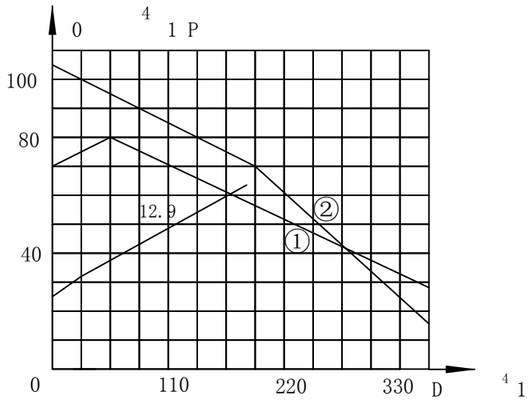
13.32.1000



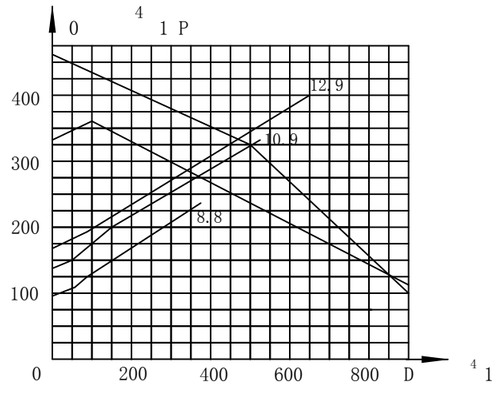
13.32.1120



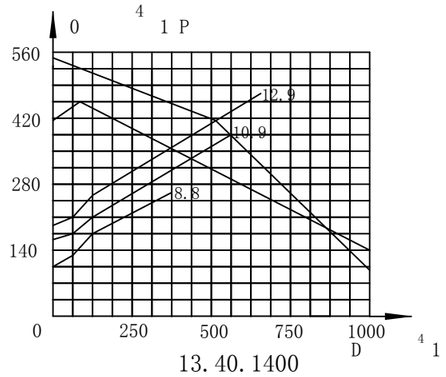
13.25.630



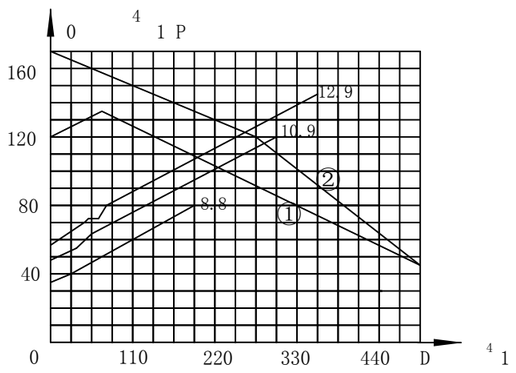
13.25.710



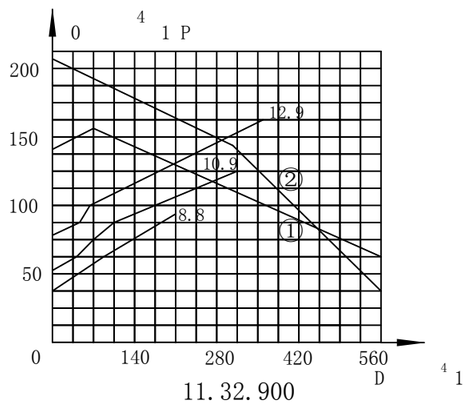
13.40.1250



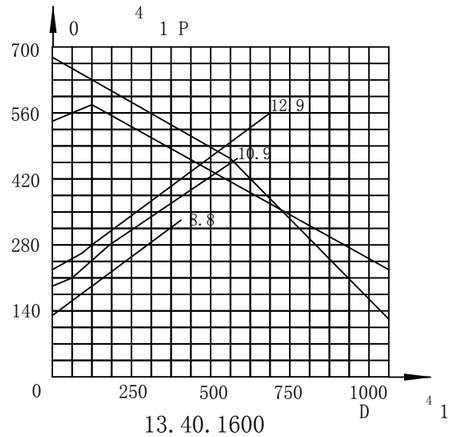
13.40.1400



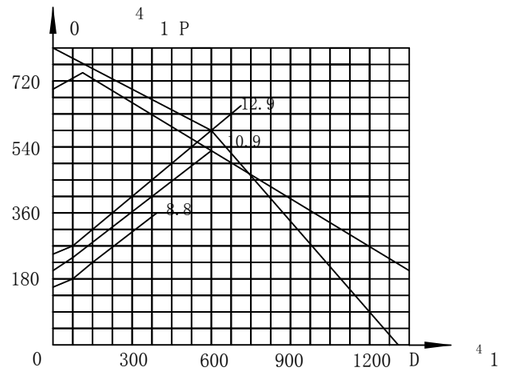
13.32.800



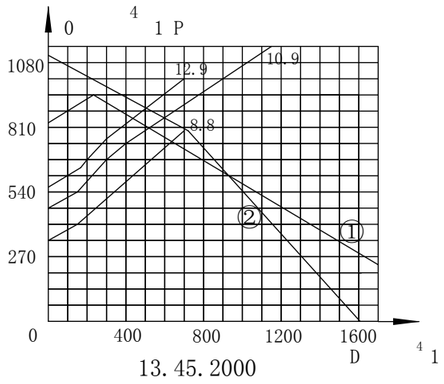
11.32.900



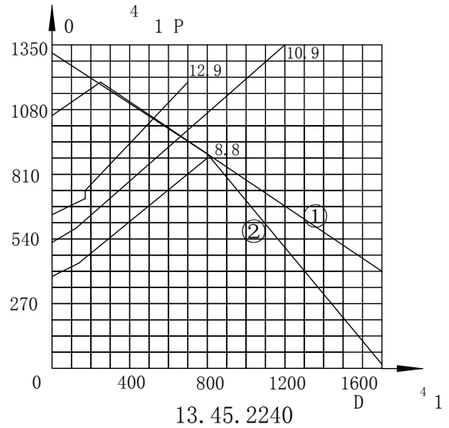
13.40.1600



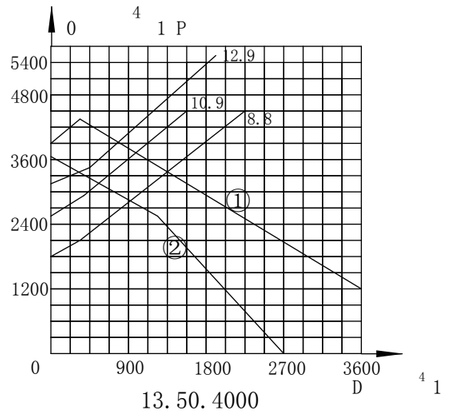
13.40.1800



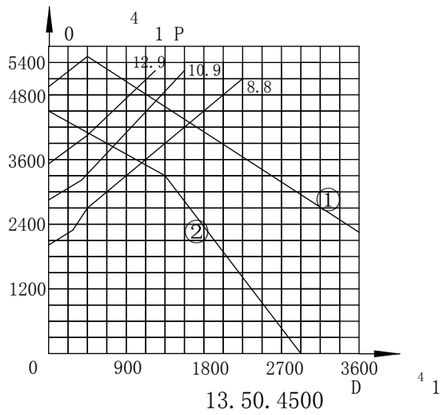
13. 45. 2000



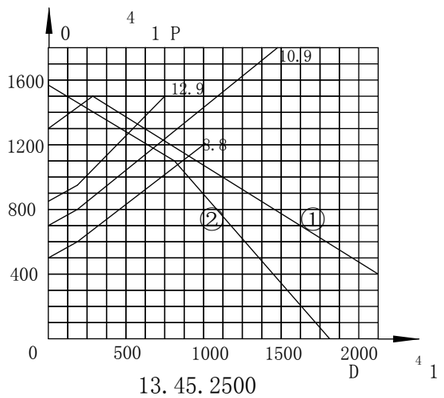
13. 45. 2240



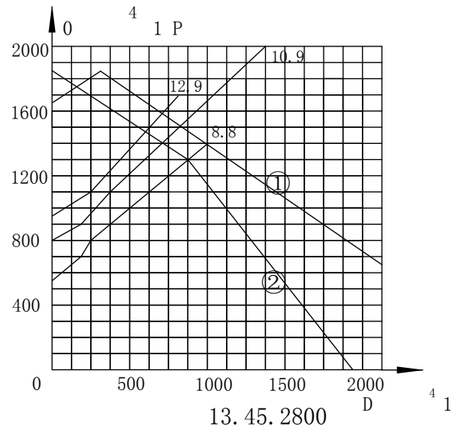
13. 50. 4000



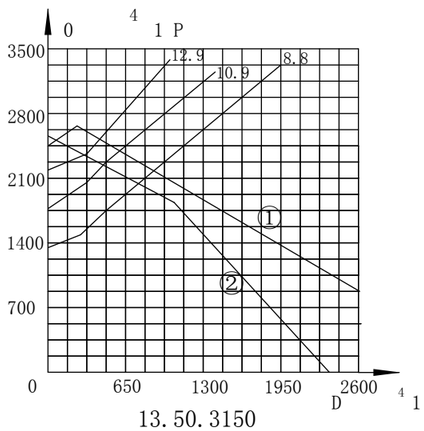
13. 50. 4500



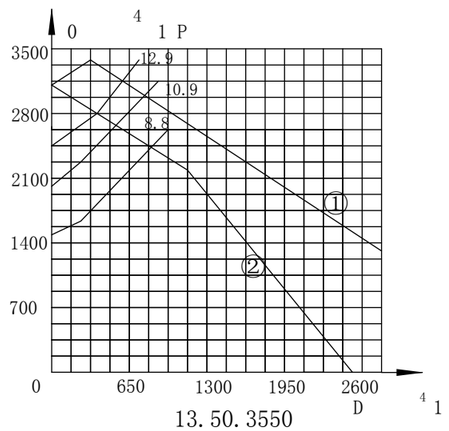
13. 45. 2500



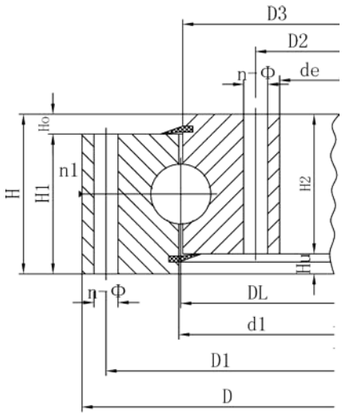
13. 45. 2800



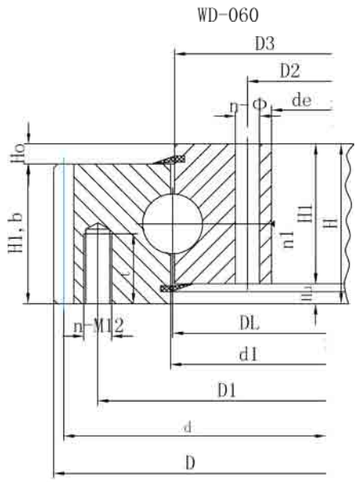
13. 50. 3150



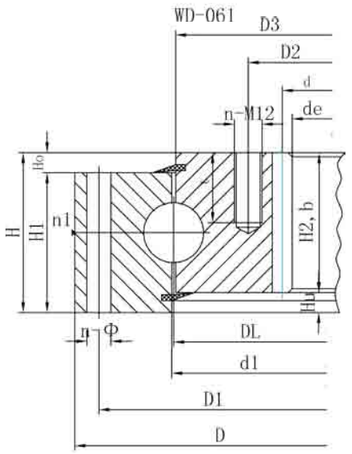
13. 50. 3550



WD-060



WD-061



WD-062

8.Thin Section Slewing Bearing（Light Type）

Characteristic of structure, performance and application

The Thin Section Slewing Bearing has the same structure with the ordinary slewing bearing,but the weight is light,and rotate flexibly,which widely used in the food machinaery,canning machinery and environmental machinery etc.

Note:
1. n1 is the nos of lubricating holes.Oil cup M8×1JB/T7940.1~JB/T7940.2.The Oil nipple's location can be change according to the user's application.
4. "Km" is addendum reduction.

① Ungear (060 Series)

Model DL	Wght kg	Dimensions			Mounting Dimensions						Structural Dimension						Gear data					Tooth force Allowed [KN]	Tooth force Max [KN]	Clearance Axial	Clearance Radial
		D	de	H	D1	D2	n	Φ	M	t	D3	d1	H1	H2	Hu	Ho	d	m	z	k.m	b				
DL	kg	mm						mm			mm													mm	
WD-060.20.0414	29	486	342	56	460	368	24	13.5	12	20	412.5	415.5	45.5	45.5	10.5	10.5								≤0.28	≤0.24
WD-060.20.0544	37	616	472	56	590	498	32	13.5	12	20	542.5	545.5	45.5	45.5	10.5	10.5								≤0.30	≤0.26
WD-060.20.0644	44	716	572	56	690	598	36	13.5	12	20	642.5	645.5	45.5	45.5	10.5	10.5								≤0.30	≤0.26
WD-060.20.0744	52	816	672	56	790	698	40	13.5	12	20	742.5	745.5	45.5	45.5	10.5	10.5								≤0.30	≤0.26
WD-060.20.0844	60	916	772	56	890	798	40	13.5	12	20	842.5	845.5	45.5	45.5	10.5	10.5								≤0.30	≤0.26
WD-060.20.0944	67	1016	872	56	990	898	44	13.5	12	20	942.5	945.5	45.5	45.5	10.5	10.5								≤0.30	≤0.26
WD-060.20.1094	77	1166	1022	56	1140	1048	48	13.5	12	20	1092.5	1095.5	45.5	45.5	10.5	10.5								≤0.30	≤0.26

② External Gear (061 Series)

WD-061.20.0414	31	504	342	56	455	368	20/24	13.5	12	20	412.5	415.5	45.5	45.5	10.5	10.5	495	5	99	-0.5	45.5	11.75	23.5	≤0.28	≤0.24
WD-061.20.0544	43	640.8	472	56	585	498	28/32	13.5	12	20	542.5	545.5	45.5	45.5	10.5	10.5	630	6	105	-0.6	45.5	14.2	28.4	≤0.30	≤0.26
WD-061.20.0644	52	742.8	572	56	685	598	32/36	13.5	12	20	642.5	645.5	45.5	45.5	10.5	10.5	732	6	122	-0.6	45.5	14.2	28.4	≤0.30	≤0.26
WD-061.20.0744	59	838.8	672	56	785	698	36/40	13.5	12	20	742.5	745.5	45.5	45.5	10.5	10.5	828	6	138	-0.6	45.5	14.2	28.4	≤0.30	≤0.26
WD-061.20.0844	71	950.4	772	56	885	798	36/40	13.5	12	20	842.5	845.5	45.5	45.5	10.5	10.5	936	8	117	-0.8	45.5	18.93	37.86	≤0.30	≤0.26
WD-061.20.0944	77	1046.4	872	56	985	898	40/44	13.5	12	20	942.5	945.5	45.5	45.5	10.5	10.5	1032	8	129	-0.8	45.5	18.93	37.86	≤0.30	≤0.26
WD-061.20.1094	91	1198.4	1022	56	1135	1048	44/48	13.5	12	20	1092.5	1095.1	45.5	45.5	10.5	10.5	1184	8	148	-0.8	45.5	18.93	37.86	≤0.30	≤0.26

③ Internal Gear (062 Series)

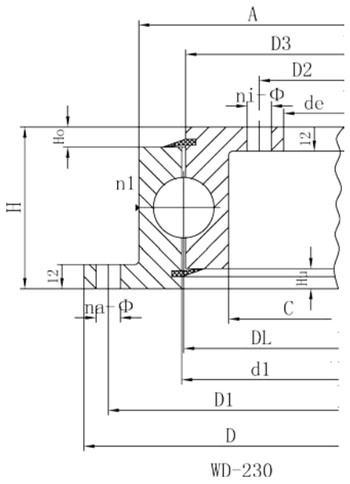
WD-062.20.0414	31	486	326.5	56	460	375	24	13.5	12	20	415.5	412.5	45.5	45.5	10.5	10.5	335	5	67	-0.8	45.5	13.54	27.08	≤0.28	≤0.24
WD-062.20.0544	42	616	445.2	56	590	505	32	13.5	12	20	545.5	542.5	45.5	45.5	10.5	10.5	456	6	76	-0.6	45.5	16.00	32.00	≤0.30	≤0.26
WD-062.20.0644	50	716	547.2	56	690	605	36	13.5	12	20	645.5	642.5	45.5	45.5	10.5	10.5	558	6	93	-0.6	45.5	15.62	31.24	≤0.30	≤0.26
WD-062.20.0744	58	816	649.2	56	790	705	40	13.5	12	20	745.5	742.5	45.5	45.5	10.5	10.5	660	6	110	-0.6	45.5	15.32	30.64	≤0.30	≤0.26
WD-062.20.0844	69	916	737.6	56	890	805	40	13.5	12	20	845.5	842.5	45.5	45.5	10.5	10.5	752	8	94	-0.8	45.5	20.8	41.60	≤0.30	≤0.26
WD-062.20.0944	76	1016	841.6	56	990	905	44	13.5	12	20	945.5	942.5	45.5	45.5	10.5	10.5	856	8	107	-0.8	45.5	20.49	40.98	≤0.30	≤0.26
WD-062.20.1094	91	1166	985.6	56	1140	1055	48	13.5	12	20	1095.5	1092.5	45.5	45.5	10.5	10.5	1000	8	125	-0.8	45.5	20.16	40.32	≤0.30	≤0.26

9.Thin Section Slewing Bearing（Flange Type）

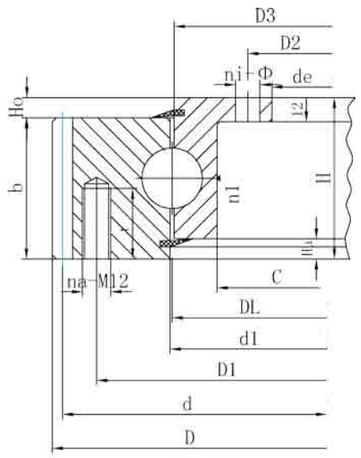
Characteristic of structure, performance and application

The Thin Section Slewing Bearing has the same structure with the ordinary slewing bearing,but the weight is light,and rotate flexibly,which widely used in the food machinaery,canning machinery and environmental machinery etc.

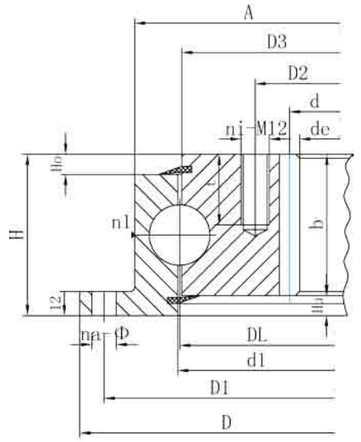
Note:
1. n1 is the nos of lubricating holes.Oil cup M8×1JB/T7940.1~JB/T7940.2.The Oil nipple's location can be change according to the user's application.
4. "Km" is addendum reduction.



WD-230



WD-231



WD-232

① Ungear (060 Series)

Model DL	Wght kg	Dimensions			Mounting Dimensions							Structural Dimension						Gear data					Tooth force Allowed [KN]	Tooth force Max [KN]	Clearance Axial	Clearance Radial
		D	de	H	D1	D2	na	Φ/M	ni	Φ/M	t	n1	D3	d1	A	C	Hu	Ho	d	m	z	b	k.m				
DL	kg	mm						mm		mm			mm													mm	
WD-230.20.0414	23.0	518	304	56	490	332	16	18	24	18	20	4	412.5	415.5	453	375	10.5	10.5								≤0.5	≤0.5
WD-230.20.0544	30.4	648	434	56	620	462	20	18	28	18	20	4	542.5	545.5	583	505	10.5	10.5								≤0.5	≤0.5
WD-230.20.0644	35.8	748	534	56	720	562	24	18	32	18	20	4	642.5	645.5	683	605	10.5	10.5								≤0.5	≤0.5
WD-230.20.0744	42.2	848	634	56	820	662	24	18	32	18	20	4	742.5	745.5	783	705	10.5	10.5								≤0.5	≤0.5
WD-230.20.0844	47.1	948	734	56	920	762	28	18	36	18	20	4	842.5	845.5	883	805	10.5	10.5								≤0.5	≤0.5
WD-230.20.0944	52.3	1048	834	56	1020	862	32	18	40	18	20	4	942.5	945.5	983	905	10.5	10.5								≤0.5	≤0.5
WD-230.20.1094	61.1	1198	984	56	1170	1012	32	18	40	18	20	4	1092.5	1095.5	1133	1055	10.5	10.5								≤0.5	≤0.5

② External Gear (061 Series）

WD-231.20.0414	29.0	504	304	56	455	332	10	M12	24	18	20	4	412.5	415.5		375	10.5	10.5	495	5	99	45.5	-0.5	11.75	23.50	≤0.5	≤0.5
WD-231.20.0544	39.2	640.8	434	56	585	462	14	M12	28	18	20	4	542.5	545.5		505	10.5	10.5	630	6	105	45.5	-0.5	14.2	28.40	≤0.5	≤0.5
WD-231.20.0644	47.2	742.8	534	56	685	562	16	M12	32	18	20	4	642.5	645.5		605	10.5	10.5	732	6	122	45.5	-0.6	14.2	28.40	≤0.5	≤0.5
WD-231.20.0744	53.1	838.8	634	56	785	662	18	M12	32	18	20	4	742.5	745.5		705	10.5	10.5	828	6	138	45.5	-0.6	14.2	28.40	≤0.5	≤0.5
WD-231.20.0844	64.7	950.4	734	56	885	762	18	M12	36	18	20	4	842.5	845.5		805	10.5	10.5	936	8	117	45.5	-0.8	18.93	37.86	≤0.5	≤0.5
WD-231.20.0944	69.1	1046.4	834	56	985	862	20	M12	40	18	20	4	942.5	945.5		905	10.5	10.5	1032	8	129	45.5	-0.8	18.93	37.86	≤0.5	≤0.5
WD-231.20.1094	82.5	1198.4	984	56	1135	1012	22	M12	40	18	20	4	1092.5	1095.5		1055	10.5	10.5	1184	8	148	45.5	-0.8	18.93	37.86	≤0.5	≤0.5

③ Internal Gear (062 Series)

WD-232.20.0414	26.9	518	326.5	56	490	375	16	18	12	M12	20	4	412.5	415.5	453		10.5	10.5	335	5	67	45.5	-0.8	13.54	27.1	≤0.5	≤0.5
WD-232.20.0544	36.7	648	445.5	56	620	505	20	18	16	M12	20	4	542.5	545.5	583		10.5	10.5	456	6	76	45.5	-0.6	16.00	32.00	≤0.5	≤0.5
WD-232.20.0644	43.4	748	547.5	56	720	605	24	18	18	M12	20	4	642.5	645.5	683		10.5	10.5	558	6	93	45.5	-0.6	15.62	31.2	≤0.5	≤0.5
WD-232.20.0744	50.8	848	649.2	56	820	705	24	18	20	M12	20	4	742.5	745.5	783		10.5	10.5	660	6	110	45.5	-0.6	15.32	30.6	≤0.5	≤0.5
WD-232.20.0844	61.3	948	737.6	56	920	805	28	18	20	M12	20	4	842.5	845.5	883		10.5	10.5	752	8	94	45.5	-0.8	20.8	41.60	≤0.5	≤0.5
WD-232.20.0944	65.4	1048	841.6	56	1020	905	32	18	22	M12	20	4	942.5	945.5	983		10.5	10.5	856	8	107	45.5	-0.8	20.49	41	≤0.5	≤0.5
WD-232.20.1094	80.3	1198	985.6	56	1170	1055	32	18	24	M12	20	4	1092.5	1095.5	1133		10.5	10.5	1000	8	125	45.5	-0.8	20.16	40.3	≤0.5	≤0.5

Thin Section Slewing Bearing（Light Type）Series Load Curve

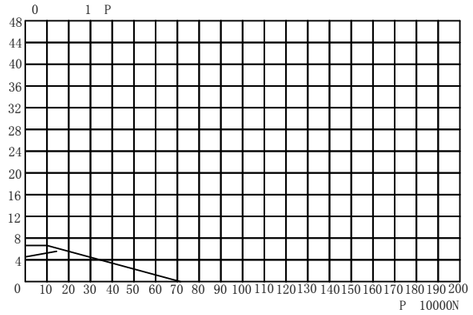


Fig. 1 WD-06.20.0414

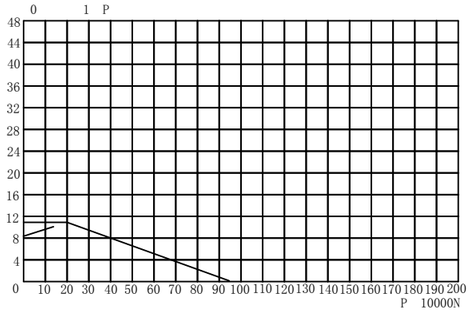


Fig. 2 WD-06.20.0544

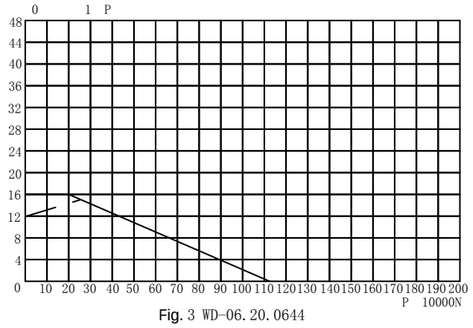


Fig. 3 WD-06.20.0644

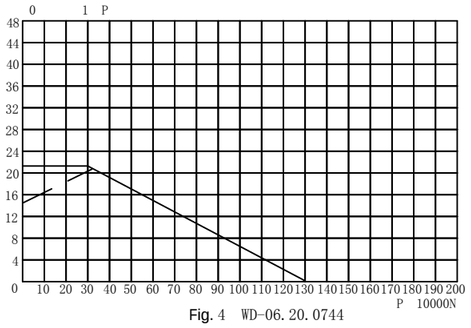


Fig. 4 WD-06.20.0744

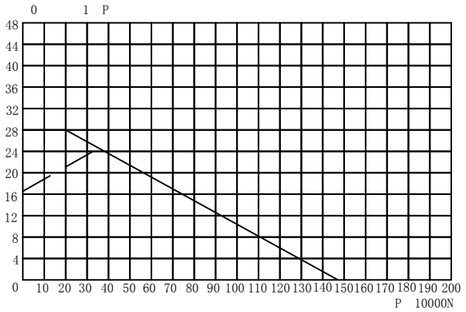


Fig. 5 WD-06.20.0844

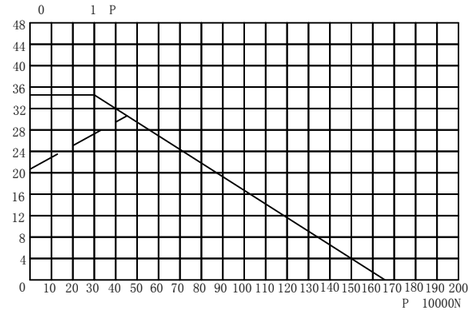


Fig. 6 WD-06.20.0944

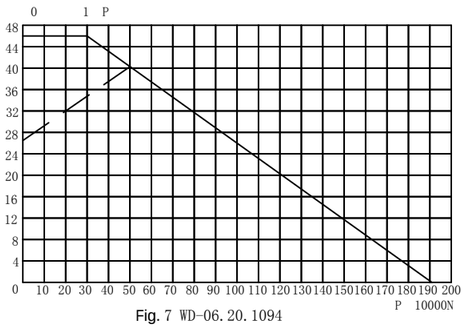


Fig. 7 WD-06.20.1094

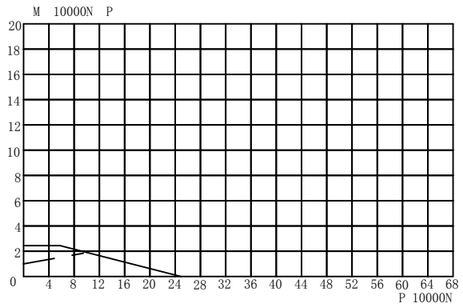


Fig. 1 WD-23.20.0414

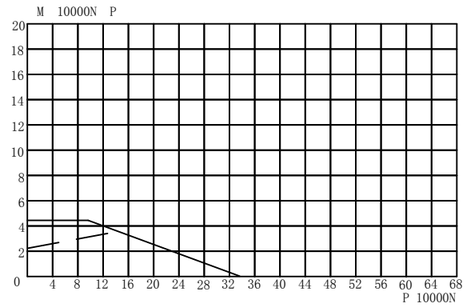


Fig. 2 WD-23.20.0544

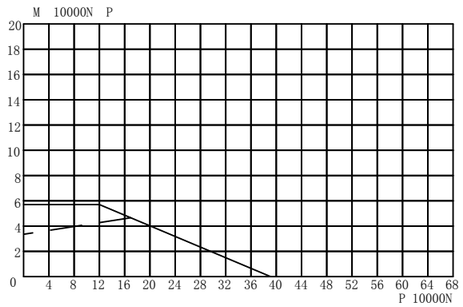


Fig. 3 WD-23.20.0644

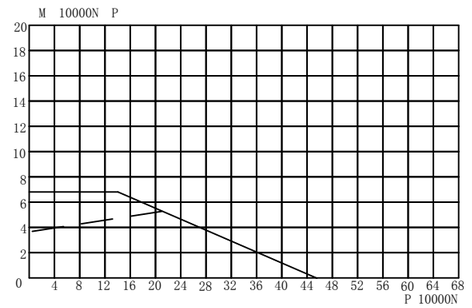


Fig. 4 WD-23.20.0744

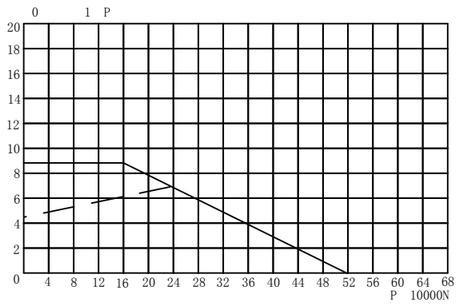


Fig. 5 WD-23.20.0844

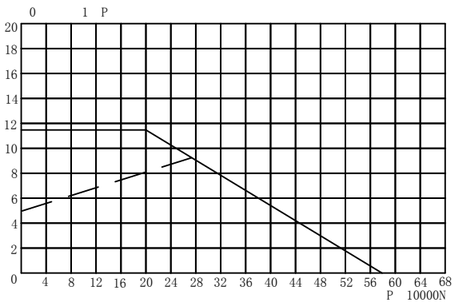


Fig. 6 WD-23.20.0944

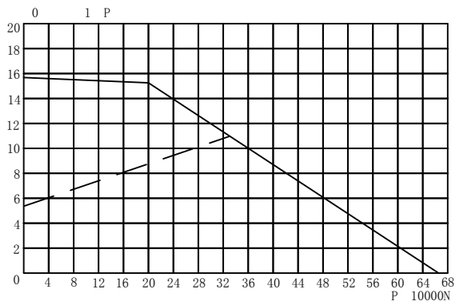


Fig. 7 WD-23.20.1094