Slewing Ring Bearings

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slewing ring

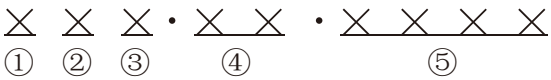
Slewing Rings have a high load carrying capacity, a versatile range of applications and are highly cost-effective. Due to their design, a single bearing can reliably support radial, axial and tilting moment loads. It is therefore possible in many cases to replace bearing arrangements comprising a combination of radial and axial bearings by a single bearing.

This reduces, in some cases considerably, the costs and work required in the design of the adjacent construction and the fitting of bearings. It is made up of mounting holes, inner gear or outer gear, grease hole and sealing device. It has many positive characteristics; compact structure, light weight, good rigidity, steady speed and high precision.

Besides the standard designs in following pages of this catalogue, we are able to make customized design according to customers' requirements.

Bearing Description	Typical Applications
Single-row Ball Slewing Bearing	Turntables,Radar,Pedestal cranes Mobile cranes,Excavators,Wind turbines
Double-row Ball Slewing Bearing	Large cranes ,Wind turbines Marine cranes ,Large excavators
Crossed Roller Slewing Bearing	Radar ,Turrets ,Excavators Cranes ,Marine cranes ,Stacker Reclaimers
Triple-row Roller Slewing Bearing	Radar ,Large cranes,Large excavators Steel ladel,Turrets

Slewing Bearing code structure



①—Type of Slewing Bearing
0- ball Slewing Bearing
1- roller Slewing Bearing

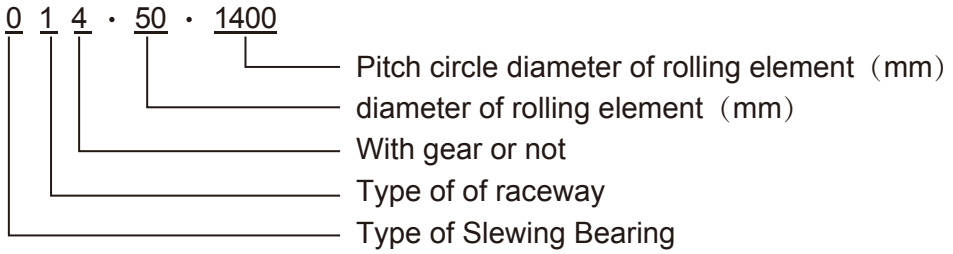
②—Type of of raceway
1-Single-Row Crossed Roller Type, Single-Row Four Point Contact Ball Type
2-Double-Row Different Ball Type
3-Three-Row Roller Type

③—With gear or not
0---no gear
1--- external gear with small modular
2--- external gear with big modular
3--- internal gear with Small modular
4--- internal gear with big modular

④—diameter of rolling element（mm）

⑤—Pitch circle diameter of rolling element（mm）

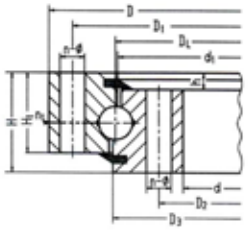
For Example:



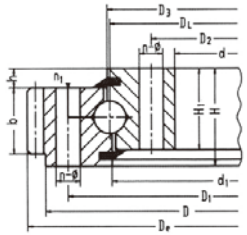
This code means:

The Slewing Bearing is of Single-Row Four Point Contact Ball Internal gear type, with the diameter of the ball diameter at 50 mm, and the pitch circle diameter of rolling element is 1400mm.

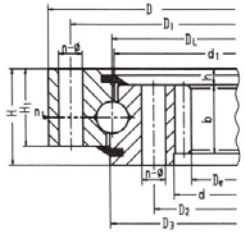
Single-row ball slewing bearing



010



011,012



013,014

Basic type			Configuration size			Mounting				Structural size					Gear Data			Ext Gear		Intl Gear		Tooth Force		Weight (kg)
Without Gear D_L mm	Ext Gear D_L mm	Intl Gear D_L mm	D mm	d mm	H mm	D_1 mm	D_2 mm	n	μ mm	n1	D_3 mm	d_1 mm	H_1 mm	h	b mm	x	m mm	D_e mm	Z	D_e mm	Z	Normalizing Z 10^4 N	Tempering T 10^4 N	
010.20.200	011.20.200	_	280	120	60	248	152	12	16	2	201	199	50	10	40	0	3	300	98	_	_	_	_	_
010.20.224	011.20.224	_	304	144	60	272	176	12	16	2	225	223	50	10	40	0	3	312	105	_	_	_	_	_
010.20.250	011.20.250	_	330	170	60	298	202	18	16	2	251	249	50	10	40	0	4	352	86	_	_	_	_	_
010.20.280	011.20.280	_	360	200	60	328	232	18	16	2	281	279	50	10	40	0	4	384	94	_	_	_	_	_
010.25.315	011.25.315	013.25.315	408	222	70	372	258	20	18	2	316	314	60	10	50	0	5	435	85	190	40	_	_	_
010.25.355	011.25.355	013.25.355	448	262	70	412	298	20	18	2	356	354	60	10	50	0	5	475	93	235	49	_	_	_
010.25.400	011.25.400	013.25.400	493	307	70	457	343	24	18	2	401	399	60	10	50	0	6	528	86	276	48	_	_	_
010.25.450	011.25.450	013.25.450	543	357	70	507	393	24	18	2	451	449	100	10	50	0	6	576	94	324	56	_	_	_
010.30.500	011.30.500	013.30.500	602	398	80	566	434	20	18	4	501	498	70	10	60	+0.5	5	629	123	367	74	3.7	5.2	85
	012.30.500	014.30.500															6	628.8	102	368.4	62	4.5	6.2	
010.25.500	011.25.500	013.25.500	602	398	80	566	434	20	18	4	501	499	70	10	60	+0.5	5	629	123	367	74	3.7	5.2	85
	012.25.500	014.25.500															6	628.8	102	368.4	62	4.5	6.2	
010.30.560	011.30.560	013.30.560	662	458	80	626	494	20	18	4	561	558	70	10	60	+0.5	5	689	135	427	86	3.7	5.2	95
	012.30.560	014.30.560															6	688.8	112	428.4	72	4.5	6.2	
010.25.560	011.25.560	013.25.560	662	458	80	626	494	20	18	4	561	559	70	10	60	+0.5	5	689	135	427	86	3.7	5.2	95
	012.25.560	014.25.560															6	688.8	112	428.4	72	4.5	6.2	

Basic type			Configuration size			Mounting				Structural size					Gear Data			Ext Gear		Intl Gear		Tooth Force		Weight (kg)
Without Gear D_L mm	Ext Gear D_L mm	Intl Gear D_L mm	D mm	d mm	H mm	D_1 mm	D_2 mm	n	μ mm	n1	D_3 mm	d_1 mm	H_1 mm	h	b mm	x	m mm	D_e mm	Z	D_e mm	Z	Normalizing Z 10^4 N	Tempering T 10^4 N	
010.20.200	011.20.200	_	280	120	60	248	152	12	16	2	201	199	50	10	40	0	3	300	98	_	_	_	_	_
010.20.224	011.20.224	_	304	144	60	272	176	12	16	2	225	223	50	10	40	0	3	312	105	_	_	_	_	_
010.20.250	011.20.250	_	330	170	60	298	202	18	16	2	251	249	50	10	40	0	4	352	86	_	_	_	_	_
010.20.280	011.20.280	_	360	200	60	328	232	18	16	2	281	279	50	10	40	0	4	384	94	_	_	_	_	_
010.25.315	011.25.315	013.25.315	408	222	70	372	258	20	18	2	316	314	60	10	50	0	5	435	85	190	40	_	_	_
010.25.355	011.25.355	013.25.355	448	262	70	412	298	20	18	2	356	354	60	10	50	0	5	475	93	235	49	_	_	_
010.25.400	011.25.400	013.25.400	493	307	70	457	343	24	18	2	401	399	60	10	50	0	6	528	86	276	48	_	_	_
010.25.450	011.25.450	013.25.450	543	357	70	507	393	24	18	2	451	449	100	10	50	0	6	576	94	324	56	_	_	_
010.30.500	011.30.500	013.30.500	602	398	80	566	434	20	18	4	501	498	70	10	60	+0.5	5	629	123	367	74	3.7	5.2	85
	012.30.500	014.30.500															6	628.8	102	368.4	62	4.5	6.2	
010.25.500	011.25.500	013.25.500	602	398	80	566	434	20	18	4	501	499	70	10	60	+0.5	5	629	123	367	74	3.7	5.2	85
	012.25.500	014.25.500															6	628.8	102	368.4	62	4.5	6.2	
010.30.560	011.30.560	013.30.560	662	458	80	626	494	20	18	4	561	558	70	10	60	+0.5	5	689	135	427	86	3.7	5.2	95
	012.30.560	014.30.560															6	688.8	112	428.4	72	4.5	6.2	
010.25.560	011.25.560	013.25.560	662	458	80	626	494	20	18	4	561	559	70	10	60	+0.5	5	689	135	427	86	3.7	5.2	95
	012.25.560	014.25.560															6	688.8	112	428.4	72	4.5	6.2	
010.30.630	011.30.630	013.30.630	732	528	80	696	564	24	18	4	631	628	70	10	60	+0.5	6	772.8	126	494.4	83	4.5	6.2	110
	012.30.630	014.30.630															8	774.4	94	491.2	62	6.0	8.3	
010.25.630	011.25.630	013.25.630	732	528	80	696	564	24	18	4	631	629	70	10	60	+0.5	6	772.8	126	494.4	83	4.5	6.2	110
	012.25.630	014.25.630															8	774.4	94	491.2	62	6.0	8.3	
010.30.710	011.30.710	013.30.710	812	608	80	776	644	24	18	4	711	708	70	10	60	+0.5	6	850.8	139	572.4	96	4.5	6.2	120
	012.30.710	014.30.710															8	854.4	104	571.2	72	6.0	8.3	

Basic type			Configuration size			Mounting				Structural size					Gear Data			Ext Gear		Intl Gear		Tooth Force		Weight (kg)
Without Gear D_L mm	Ext Gear D_L mm	Intl Gear D_L mm	D mm	d mm	H mm	D_1 mm	D_2 mm	n	¦ μ mm	n1	D_3 mm	d_1 mm	H_1 mm	h	b mm	x	m mm	D_e mm	Z	D_e mm	Z	Normalizing Z 10^4 N	Tempering T 10^4 N	
010.25.710	011.25.710	013.25.710	812	608	80	776	644	24	18	4	711	709	70	10	60	+0.5	6	850.8	139	572.4	96	4.5	6.2	120
	012.25.710	014.25.710															8	854.4	104	571.2	72	6.0	8.9	
010.40.800	011.40.800	013.40.800	922	678	100	878	722	30	22	6	801	798	90	10	80	+0.5	8	966.4	118	635.2	80	8.0	11.1	220
	012.40.800	014.40.800															10	968	94	634	64	10.0	14.0	
010.30.800	011.30.800	013.30.800	922	678	100	878	722	30	22	6	801	798	90	10	80	+0.5	8	966.4	118	635.2	80	8.0	11.1	220
	012.30.800	014.30.800															10	968	94	634	64	10.0	14.0	
010.40.900	011.40.900	013.40.900	1022	778	100	978	822	30	22	6	901	898	90	10	80	+0.5	8	1062.4	130	739.2	93	8.0	11.1	240
	012.40.900	014.40.900															10	1068	104	734	74	10.0	14.0	
010.30.900	011.30.900	013.30.900	1022	778	100	978	822	30	22	6	901	898	90	10	80	+0.5	8	1062.4	130	739.2	93	8.0	11.1	240
	012.30.900	014.30.900															10	1068	104	734	74	10.0	14.0	
010.40.1000	011.40.1000	013.40.1000	1122	878	100	1078	922	36	22	6	1001	998	90	10	80	+0.5	10	1188	116	824	83	10.0	14.0	270
	012.40.1000	014.40.1000															12	1185.6	96	820.8	69	12.0	16.7	
010.30.1000	011.30.1000	013.30.1000	1122	878	100	1078	922	36	22	6	1001	998	90	10	80	+0.5	10	1188	116	824	83	10.0	14.0	270
	012.30.1000	014.30.1000															12	1185.6	96	820.8	69	12.0	16.7	
010.40.1120	011.40.1120	013.40.1120	1242	998	100	1198	1042	36	22	6	1121	1118	90	10	80	+0.5	10	1298	127	944	95	10.0	14.0	300
	012.40.1120	014.40.1120															12	1305.6	106	940.8	79	12.0	16.7	
010.30.1120	011.30.1120	013.30.1120	1242	998	100	1198	1042	36	22	6	1121	1118	90	10	80	+0.5	10	1298	127	944	95	10.0	14.0	300
	012.30.1120	014.30.1120															12	1305.6	106	940.8	79	12.0	16.7	
010.45.1250	011.45.1250	013.45.1250	1390	1110	110	1337	1163	40	26	5	1252	1248	100	10	90	+0.5	12	1449.6	118	1048.8	88	13.5	18.8	420
	012.45.1250	014.45.1250															14	1453.2	101	1041.6	75	15.8	21.9	
010.35.1250	011.35.1250	013.35.1250	1390	1110	110	1337	1163	40	26	5	1251	1248	100	10	90	+0.5	12	1449.6	118	1048.8	88	13.5	18.8	420
	012.35.1250	014.35.1250															14	1453.2	101	1041.6	75	15.8	21.9	

Basic type			Configuration size			Mounting				Structural size					Gear Data			Ext Gear		Intl Gear		Tooth Force		Weight (kg)
Without Gear D_L mm	Ext Gear D_L mm	Intl Gear D_L mm	D mm	d mm	H mm	D_1 mm	D_2 mm	n	¦ μ mm	n1	D_3 mm	d_1 mm	H_1 mm	h	b mm	x	m mm	D_e mm	Z	D_e mm	Z	Normalizing Z 10^4 N	Tempering T 10^4 N	
010.45.1400	011.45.1400	013.45.1400	1540	1260	110	1487	1313	40	26	5	1402	1398	100	10	90	+0.5	12	1605.6	131	1192.8	100	13.5	18.8	480
	012.45.1400	014.45.1400															14	1607.2	112	1195.6	86	15.5	21.9	
010.35.1400	011.35.1400	013.35.1400	1540	1260	110	1487	1313	40	26	5	1401	1398	100	10	90	+0.5	12	1605.6	131	1192.8	100	13.5	18.8	480
	012.35.1400	014.35.1400															14	1607.2	112	1195.6	86	15.8	21.9	
010.45.1600	011.45.1600	013.45.1600	1740	1460	110	1687	1513	45	26	5	1602	1598	100	10	90	+0.5	14	1817.2	127	1391.6	100	15.8	21.9	550
	012.45.1600	014.45.1600															16	1820.8	111	1382.4	87	18.1	25.0	
010.35.1600	011.35.1600	013.35.1600	1740	1460	110	1687	1513	45	26	5	1601	1598	100	10	90	+0.5	14	1817.2	127	1391.6	100	15.8	21.9	550
	012.35.1600	014.35.1600															16	1820.8	111	1382.4	87	18.1	25.0	
010.45.1800	011.45.1800	013.45.1800	1940	1660	110	1887	1713	45	26	5	1802	1798	100	10	90	+0.5	14	2013.2	141	1573.6	113	15.8	21.9	610
	012.45.1800	014.45.1800															16	2012.8	123	1574.4	99	18.1	25.0	
010.35.1800	011.35.1800	013.35.1800	1940	1660	110	1887	1713	45	26	5	1801	1798	100	10	90	+0.5	14	2013.2	141	1573.6	113	15.8	21.	610
	012.35.1800	014.35.1800															16	2012.8	123	1574.4	99	18.1	25.0	
010.60.2000	011.60.2000	013.60.2000	2178	1825	144	2110	1891	48	33	8	2002	1998	132	12	120	+0.5	16	2268.8	139	1734.4	109	24.1	33.3	1100
	012.60.2000	014.60.2000															18	2264.4	123	1735.2	97	27.1	37.5	
010.40.2000	011.40.2000	013.40.2000	2178	1825	144	2110	1891	48	33	8	2001	1998	132	12	120	+0.5	16	2268.8	139	1734.4	109	24.1	33.3	1100
	012.40.2000	014.40.2000															18	2264.4	123	1735.2	97	27.1	37.5	
010.60.2240	011.60.2240	013.60.2240	2418	2065	144	2350	2131	48	33	8	2242	2238	132	12	120	+0.5	16	2492.8	153	1990.4	125	24.1	33.3	1250
	012.60.2240	014.60.2240															18	2498.4	136	1987.2	111	27.1	37.5	
010.40.2240	011.40.2240	013.40.2240	2418	2065	144	2350	2131	48	33	8	2241	2238	132	12	120	+0.5	16	2492.8	153	1990.4	125	24.1	33.3	1250
	012.40.2240	014.40.2240															18	2498.4	136	1987.2	111	27.1	37.5	
010.60.2500	011.60.2500	013.60.2500	2678	2325	144	2610	2391	56	33	8	2502	2498	132	12	120	+0.5	18	2768.4	151	2239.2	125	27.1	37.5	1400
	012.60.2500	014.60.2500															20	2776	136	2228	112	30.1	41.8	

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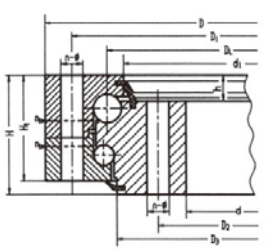
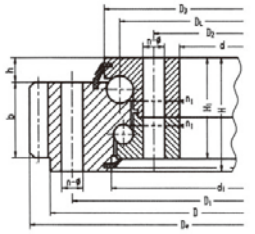
Without Gear D_L mm	Ext Gear D_L mm	Intl Gear D_L mm	D mm	d mm	H mm	D_1 mm	D_2 mm	n	¦ μ mm	n1	D_3 mm	d_1 mm	H_1 mm	h	b mm	x	m mm	D_e mm	Z	D_e mm	Z	Normalizing Z 10^4 N	Tempering T 10^4 N	
010.40.2500	011.40.2500	013.40.2500	2678	2325	144	2610	2391	56	33	8	2501	2498	132	12	120	+0.5	18	2768.4	151	2239.2	125	27.1	37.5	1400
	012.40.2500	014.40.2500															20	2776	136	2228	112	30.1	41.8	
010.60.2800	011.60.2800	013.60.2800	2978	2625	144	2910	2691	56	33	8	2802	2798	132	12	120	+0.5	18	3074.4	168	2527.2	141	27.1	37.5	1600
	012.60.2800	014.60.2800															20	3076	151	2528	127	30.1	41.8	
010.40.2800	011.40.2800	013.40.2800	2978	2625	144	2910	2691	56	33	8	2802	2798	132	12	120	+0.5	18	3074.4	168	2527.2	141	27.1	37.5	1600
	012.40.2800	014.40.2800															20	3076	151	2528	127	30.1	41.8	
010.75.3150	011.75.3150	013.75.3150	3376	2922	174	3286	3014	56	45	8	3152	3147	162	12	150	+0.5	20	3476	171	2828	142	37.7	52.2	2800
	012.75.3150	014.75.3150															22	3471.6	155	2824.8	129	41.5	57	
010.50.3150	011.50.3150	013.50.3150	3376	2922	174	3286	3014	56	45	8	3152	3148	162	12	150	+0.5	20	3476	171	2828	142	37.7	52.2	2800
	012.50.3150	014.50.3150															22	3471.6	155	2824.8	129	41.5	57	
010.75.3550	011.75.3550	013.75.3550	3776	3322	174	3686	3014	60	45	8	3552	3547	162	12	150	+0.5	20	3876	191	3228	162	37.7	51.7	3500
	012.75.3550	014.75.3550															22	3889.6	174	3220.8	147	41.5	57	
010.50.3550	011.50.3550	013.50.3550	3776	3322	174	3686	3014	60	45	8	3552	3548	162	12	150	+0.5	20	3876	191	3228	162	37.7	51.7	3500
	012.50.3550	014.50.3550															22	3889.6	174	3220.8	147			
																	22	3889.6	174	3220.8	147	41.5	57	
010.75.4000	011.75.4000	013.75.4000	4226	3772	174	4136	3864	60	45	10	4002	3997	162	12	150	+0.5	22	4329.6	194	3660.8	167	41.5	57	4200
	012.75.4000	014.75.4000															25	4345	171	3660	147	47.1	64.6	
010.50.4000	011.50.4000	013.50.4000	4226	3772	174	4136	3864	60	45	10	4002	3998	162	12	150	+0.5	22	4329.6	194	3660.8	167	41.5	57	4200
	012.50.4000	014.50.4000															25	4345	171	3660	147	47.1	64.6	

Basic type			Configuration size			Mounting				Structural size					Gear Data			Ext Gear		Intl Gear		Tooth Force		Weight (kg)
Without Gear D_L mm	Ext Gear D_L mm	Intl Gear D_L mm	D mm	d mm	H mm	D_1 mm	D_2 mm	n	¦ μ mm	n1	D_3 mm	d_1 mm	H_1 mm	h	b mm	x	m mm	D_e mm	Z	D_e mm	Z	Normalizing Z 10^4 N	Tempering T 10^4 N	
010.75.4500	011.75.4500	013.75.4500	4726	4272	174	4636	4364	60	45	10	4502	4497	162	12	150	+0.5	22	4835.6	217	4166.8	190	41.5	57	5100
	012.75.4500	014.75.4500															25	4845	191	4160	167	47.1	64.6	
010.50.4500	011.50.4500	013.50.4500	4726	4272	174	4636	4364	60	45	10	4502	4498	162	12	150	+0.5	22	4835.6	217	4166.8	190	41.5	57	5100
	012.50.4500	014.50.4500															25	4845	191	4160	167	47.1	64.6	

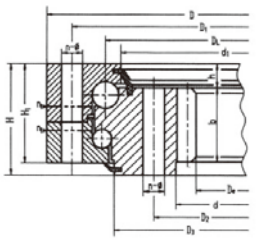
Double-row Ball Slewing Ring



020



021,022

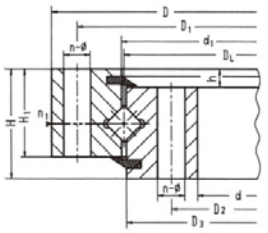


023,024

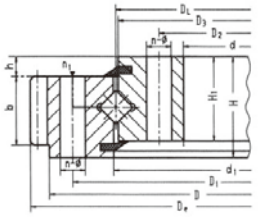
Basic Type			Configuration size			Mounting size					Structural Size				Gear date			Ext date		Intl date		Tooth Force		Weight (kg)
Without Gear D_L mm	Ext Gear D_L mm	Intl Gear D_L mm	D mm	d mm	H mm	D1 mm	D2 mm	n	Φ mm	n1	Ext Toothing mm D3/d1	Int Toothless mm D3/d1	H1 mm	h	b mm	x	m	De mm	Z	De mm	Z	normalizing Z 104 N	tempering T 104 N	
020.25.500	021.25.500	023.25.500	616	384	106	580	420	20	18	4	523	482	96	26	60	+0.5	5	644	126	357	72	3.7	5.2	127
	022.25.500	024.25.500									518	477					6	646.8	105	350.4	59	4.5	6.2	
0.20.25.560	0.21.25.560	0.23.25.560	676	444	106	640	480	20	18	4	583	542	96	26	60	+0.5	5	704	138	417	84	3.7	5.2	144
	0.22.25.560	0.24.25.560									578	537					6	706.8	115	410.4	69	4.5	6.2	
020.25.630	021.25.630	023.25.630	746	514	106	710	550	24	18	4	653	612	96	26	60	+0.5	6	790.8	129	782.4	81	4.5	6.2	161
	022.25.630	024.25.630									648	607					8	790.4	96	475.2	60	6.0	8.3	
020.25.710	021.25.710	023.25.710	826	594	106	790	630	24	18	4	733	692	96	26	60	+0.5	6	862.8	141	560.4	94	4.5	6.2	184
	022.25.710	024.25.710									728	687					8	862.4	105	555.2	70	6.0	8.3	
020.30.800	021.30.800	023.30.800	942	658	124	898	702	30	22	6	829	777	114	29	80	+0.5	8	982.4	120	619.2	78	8.0	11.1	300
	022.30.800	024.30.800									823	771					10	988	96	614	62	10.0	14.1	
020.30.900	021.30.900	023.30.900	1042	758	124	998	802	30	22	6	929	877	114	29	80	+0.5	8	1086.4	133	415.2	90	8.0	11.1	336
	022.30.900	024.30.900									923	871					10	1088	106	714	72	10.0	14.0	
020.30.1000	021.30.1000	023.30.1000	1142	858	124	1098	902	36	22	6	1029	977	114	29	80	+0.5	10	1198	117	814	82	10.0	14.0	377
	022.30.1000	024.30.1000									1023	971					12	1197.6	97	796.8	67	12.0	16.7	
020.30.1120	021.30.1120	023.30.1120	1262	978	124	1218	1022	36	22	6	1148	1097	114	29	80	+0.5	10	1318	129	924	93	10.0	14.0	430
	022.30.1120	024.30.1120									1143	1091					12	1317.6	107	916.8	77	12.0	16.7	

Basic Type			Configuration size			Mounting size					Structural Size				Gear date			Ext date		Intl date		Tooth Force		Weight (kg)
Without Gear D_L mm	Ext Gear D_L mm	Intl Gear D_L mm	D mm	d mm	H mm	D1 mm	D2 mm	n	Φ mm	n1	Ext Toothing mm D3/d1	Int Toothless mm D3/d1	H1 mm	h	b mm	x	m	De mm	Z	De mm	Z	normalizing Z 104 N	tempering T 104 N	
020.40.1250	021.40.1250	023.40.1250	1426	1074	160	1374	1126	40	26	5	1286	1215	150	39	90	+0.5	12	1497.6	122	1012.8	85	13.5	18.8	743
	022.40.1250	024.40.1250									1282	1214					14	1495.2	104	1013.6	73	15.8	21.9	
020.40.1400	021.40.1400	023.40.1400	1576	1224	160	1524	1272	40	26	5	1436	1365	150	39	90	+0.5	12	1641.6	134	1156.8	97	13.5	18.8	850
	022.40.1400	024.40.1400									1432	1364					14	1649.2	115	1153.6	83	15.8	21.9	
020.40.1600	021.40.1600	023.40.1600	1776	1424	160	1724	1424	45	26	5	1636	1565	150	39	90	+0.5	14	1845.2	129	1349.6	97	15.8	21.9	975
	022.40.1600	024.40.1600									1635	1564					16	1852.8	113	1350.4	85	18.1	25.0	
020.40.1800	021.40.1800	023.40.1800	1976	1624	160	1924	1624	45	26	5	1836	1765	150	39	90	+0.5	14	2055.2	144	1545.6	111	15.8	21.9	1117
	022.40.1800	024.40.1800									1765	1764					16	2060.8	126	1542.4	97	18.1	25.0	
020.50.2000	021.50.2000	023.50.2000	2215	1785	190	2149	1785	48	33	8	2038	1965	178	47	120	+0.5	16	2300.8	141	1702.4	107	24.1	33.3	1733
	022.50.2000	024.50.2000									2035	1962					18	2300.4	125	1699.2	95	27.1	37.5	
020.50.2240	021.50.2240	023.50.2240	2455	2025	190	2389	2025	48	33	8	2278	2206	178	47	120	+0.5	16	2540.8	156	1942.4	122	24.1	33.3	1960
	022.50.2240	024.50.2240									2206	2202					18	2552.4	139	1933.2	108	27.1	37.5	
020.50.2500	021.50.2500	023.50.2500	2715	2285	190	2649	2285	56	33	8	2538	2465	178	47	120	+0.5	18	2804.4	153	2203.2	123	27.1	37.5	2185
	022.50.2500	024.50.2500									2532	2462					20	2816	138	2188	110	30.1	41.8	
020.50.2800	021.50.2800	023.50.2800	3015	2585	190	2949	2585	56	33	8	2838	2765	178	47	120	+0.5	18	3110.4	170	2491.2	139	27.1	37.5	2485
	022.50.2800	024.50.2800									2832	2762					20	3116	153	2488	125	30.1	41.8	
020.60.3150	021.60.3150	023.60.3150	3428	2872	226	3338	2872	56	45	8	3198	3104	214	56	150	+0.5	20	3536	174	2768	139	37.7	52.2	4150
	022.60.3150	024.60.3150									3196	3102					22	3537.6	158	2758.8	126	41.5	57.4	
020.60.3550	021.60.3550	023.60.3550	3828	3272	226	3738	3272	56	45	8	3598	3504	214	56	150	+0.5	20	3936	194	3168	159	37.7	52.2	4665
	022.60.3550	024.60.3550									3596	3502					22	3933.6	176	3176.8	145	41.5	57.4	
020.60.4000	021.60.4000	023.60.4000	4278	3722	226	4188	3722	60	45	10	4048	3954	214	56	150	+0.5	22	4395.6	197	3618.8	165	41.5	57.4	5305
	022.60.4000	024.60.4000									4046	3952					25	4395	173	3610	145	47.1	65.2	
020.60.4500	021.60.4500	023.60.4500	4778	4222	226	4688	4222	60	45	10	4548	4454	214	56	150	+0.5	22	4879.6	219	4122.8	188	41.5	57.4	5981
	022.60.4500	024.60.4500									4546	4452					25	4895	193	4410	165	47.1	65.2	

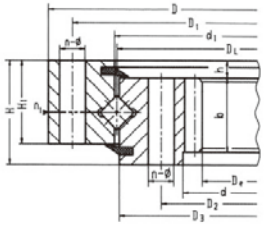
Crossed Roller Slewing bearing



110



111,112



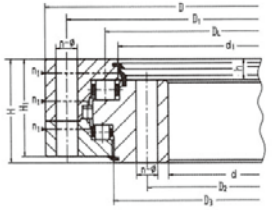
113,114

Basic Type			Configuration			Mounting Size				Structural size					Gear Date			Ext Gear		Intl gear		Tooth Force		weight (kg)
Without Gear D_L mm	Ext Gear D_L mm	Intl Gear D_L mm	D mm	d mm	H mm	D_1 mm	D_2 mm	n	F mm	n1	D_3 mm	d_1 mm	H_1 mm	h	b mm	x	m	D_e mm	Z	D_e mm	Z	Normalizing 10^4 N	Tempering 10^4 N	
110.25.500	111.25.500	113.25.500	602	398	75	566	434	20	18	4	498	502	65	10	60	+0.5	5	629	123	367	74	3.7	5.2	80
	112.25.500	114.25.500															6	628.8	102	368.4	62	4.5	6.2	
110.25.560	111.25.560	113.25.560	662	458	75	626	494	20	18	4	558	562	65	10	60	+0.5	5	689	135	427	86	3.7	5.2	90
	112.25.560	114.25.560															6	688.8	112	428.4	72	4.5	6.2	
110.25.630	111.25.630	113.25.630	732	528	75	696	564	24	18	4	628	632	65	10	60	+0.5	6	772.8	126	494.4	83	4.5	6.2	100
	112.25.630	114.25.630															8	774.4	94	491.2	62	6.0	8.3	
110.25.710	111.25.710	113.25.710	812	608	75	776	644	24	18	4	708	712	65	10	60	+0.5	6	850.8	139	572.4	96	4.5	6.2	110
	112.25.710	114.25.710															8	854.4	104	571.2	72	6.0	8.3	
110.28.800	111.28.800	113.28.800	922	678	82	878	722	30	22	6	798	802	72	10	65	+0.5	8	966.4	118	635.2	80	6.5	9.1	170
	112.28.800	114.28.800															10	968	94	634	64	8.1	11.4	
110.28.900	111.28.900	113.28.900	1022	778	82	978	822	30	22	6	898	902	72	10	65	+0.5	8	1062.4	130	739.2	93	6.5	9.1	190
	112.28.900	114.28.900															10	1068	104	734	74	8.1	11.4	
110.28.1000	111.28.1000	113.28.1000	1122	878	82	1078	922	36	22	6	998	1002	72	10	65	+0.5	10	1118	116	824	83	8.1	11.4	210
	112.28.1000	114.28.1000															12	1185.6	96	820.8	69	9.7	13.6	

Basic Type			Configuration			Mounting Size				Structural size						Gear Date			Ext Gear		Intl gear		Tooth Force		weight (kg)
Without Gear D_L mm	Ext Gear D_L mm	Intl Gear D_L mm	D mm	d mm	H mm	D_1 mm	D_2 mm	n	F mm	n1	D_3 mm	d_1 mm	H_1 mm	h	b mm	x	m	D_e mm	Z	D_e mm	Z	Normalizing 10^4 N	Tempering 10^4 N	
110.28.1120	111.28.1120	113.28.1120	1242	988	82	1198	1042	36	22	6	1118	1122	72	10	65	+0.5	10	1298	127	944	95	8.1	11.4	230
	112.28.1120	114.28.1120															12	1305.6	106	940.8	79	9.7	13.6	
110.32.1250	111.32.1250	13.32.1250	1390	1110	91	1337	1163	40	26	5	1248	1252	81	10	75	+0.5	12	1449.6	118	1048.8	88	11.3	15.7	350
	112.32.1250	114.32.1250															14	1453.2	101	1041.6	75	13.2	18.2	
110.32.1400	111.32.1400	113.32.1400	1540	1260	91	1487	1313	40	26	5	1398	1402	81	10	75	+0.5	12	1605.6	131	1192.8	100	11.3	15.7	400
	112.32.1400	114.32.1400															14	1607.2	112	1195.6	86	13.2	18.2	
110.32.1600	111.32.1600	113.32.1600	1740	1460	91	1678	1513	45	26	5	1598	1602	81	10	75	+0.5	14	1817.2	127	1391.6	100	13.2	18.2	440
	112.32.1600	114.32.1600															16	1820.8	111	1382.4	87	15.1	22.4	
110.32.1800	111.32.1800	113.32.1800	1940	1660	91	1887	1713	45	26	5	1798	1802	81	10	75	+0.5	14	2013.2	141	1573.6	113	13.2	18.2	500
	112.32.1800	114.32.1800															16	2012.8	123	1574.4	99	15.1	22.4	
110.40.2000	111.40.2000	113.40.2000	2178	1825	112	2110	1891	48	33	8	1997	2003	100	12	90	+0.5	16	2268.8	139	1734.4	109	18.1	25.0	900
	112.40.2000	114.40.2000															18	2264.4	123	1735.2	97	20.3	28.1	
110.40.2240	111.40.2240	113.40.2240	2418	2065	112	2350	2131	48	33	8	2237	2243	100	12	90	+0.5	16	2492.8	153	1990.4	125	18.1	25.0	1000
	112.40.2240	114.40.2240															18	2498.4	136	1987.2	111	20.3	28.1	
110.40.2500	111.40.2500	113.40.2500	2678	2325	112	2610	2391	56	33	8	2497	2503	100	12	90	+0.5	18	2768.4	151	2239.2	125	20.3	28.1	1100
	112.40.2500	114.40.2500															20	2776	136	2228	112	22.6	31.3	
110.40.2800	111.40.2800	113.40.2800	2978	2625	112	2910	2691	56	33	8	2797	2803	100	12	90	+0.5	18	3074.4	168	2527.2	141	20.3	28.1	1250
	112.40.2800	114.40.2800															20	3076	151	2528	127	22.6	31.3	
110.50.2800	111.50.3150	113.50.3150	3376	2922	134	3286	3014	56	45	8	3147	3153	122	12	110	+0.5	20	3476	171	2828	142	27.6	37.9	1250
	112.50.3150	114.50.3150															22	3471.6	155	2824.8	129	30.4	41.7	

Basic Type			Configuration			Mounting Size				Structural size						Gear Date			Ext Gear		Intl gear		Tooth Force		weight (kg)
Without Gear D_L mm	Ext Gear D_L mm	Intl Gear D_L mm	D mm	d mm	H mm	D_1 mm	D_2 mm	n	F mm	n1	D_3 mm	d_1 mm	H_1 mm	h	b mm	x	m	D_e mm	Z	D_e mm	Z	Normalizing 10^4 N	Tempering 10^4 N	
110.50.3550	111.50.3550	113.50.3550	3776	3322	134	3868	3414	56	45	8	3547	3553	122	12	110	+0.5	20	3876	191	3228	162	27.6	37.9	2344
	112.50.3550	114.50.3550															22	3889.6	174	3220.8	147	30.4	41.7	
110.50.4000	111.50.4000	113.50.4000	4226	3772	134	4136	3864	60	45	10	3997	4003	122	12	110	+0.5	22	4329.6	194	3660.8	167	30.4	41.7	3910
	112.50.4000	114.50.4000															25	4345	171	3660	147	34.6	47.4	
110.50.4500	111.50.4500	113.50.4500	4726	4272	134	4636	4364	60	45	10	4497	4503	122	12	110	+0.5	22	4835.6	217	4166.8	190	30.4	41.7	4500
	112.50.4500	114.50.4500															25	4845	191	4160	167	34.6	47.4	

Triple-Row Roller Slewing bearing



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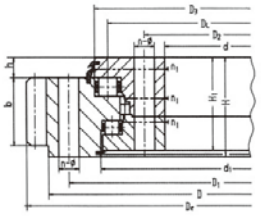
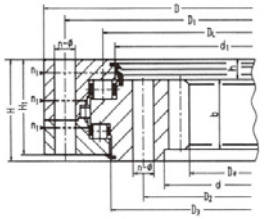


131,132



133,134

Basic Type			Configuration			Mounting Size					Structural size				Gear Date			Ext Gear		Intl Gear		Tooth Force r		Weight (kg)
Without Gear DL mm	Ext Gear DL mm	Intl Gear DL mm	D mm	d mm	H mm	D1 mm	D2 mm	n	Φ mm	n1	Ext Tooth mm D3/d1	Intl Toothless mm D3/d1	H1 mm	h	b mm	x	m	De mm	Z	De mm	Z	normalizing Z 104 N	tempering T 104 N	
130.25.500	131.25.500	133.25.500	634	366	148	598	402	24	18	4	537	474	138	32	80	+0.5	5	664	130	337	68	5.0	6.7	200
	132.25.500	134.25.500									526	463					6	664.8	108	338.4	57	6.0	8.0	
130.25.560	131.25.560	133.25.560	694	426	148	658	462	24	18	4	597	534	138	32	80	+0.5	5	724	142	397	80	5.0	6.7	224
	132.25.560	134.25.560									586	523					6	724.8	118	398.4	67	6.0	8.0	
130.25.630	131.25.630	133.25.630	764	496	148	728	532	28	18	4	667	604	138	32	80	+0.5	6	808.8	132	458.4	77	6.0	8.0	262
	132.25.630	134.25.630									656	593					8	806.4	98	459.2	58	8.0	11.0	
130.25.710	131.25.710	133.25.710	844	576	148	808	612	28	18	4	747	684	138	32	80	+0.5	6	886.8	145	536.4	90	6.0	8.0	293
	132.25.710	134.25.710									736	673					8	886.4	108	539.2	68	8.0	11.0	
130.32.800	131.32.800	133.32.800	964	636	182	920	680	36	22	4	841	770	172	40	120	+0.5	8	1006.4	123	595.2	75	12.1	16.7	488
	132.32.800	134.32.800									830	759					10	1008	98	594	60	15.1	20.9	
130.32.900	131.32.900	133.32.900	1064	736	182	1020	780	36	22	4	941	870	172	40	120	+0.5	8	1102.4	135	691.2	87	12.1	16.7	550
	132.32.900	134.32.900									930	859					10	1108	108	694	70	15.1	20.9	
130.32.1000	131.32.1000	133.32.1000	1164	836	182	1120	880	40	22	5	1041	970	172	40	120	+0.5	10	1218	119	784	79	15.1	20.9	631
	132.32.1000	134.32.1000									1030	959					12	1221.6	99	784.8	66	18.1	25.1	
130.32.1120	131.32.1120	133.32.1120	1284	956	182	1240	1000	40	22	5	1161	1090	172	40	120	+0.5	10	1338	131	904	91	15.1	20.9	710
	132.32.1120	134.32.1120									1150	1079					12	1341.6	100	904.8	76	18.1	25.1	

Basic Type			Configuration			Mounting Size					Structural size				Gear Date			Ext Gear		Intl Gear		Tooth Force r		Weight (kg)
Without Gear DL mm	Ext Gear DL mm	Intl Gear DL mm	D mm	d mm	H mm	D1 mm	D2 mm	n	Φ mm	n1	Ext Tooth mm	Intl Toothless mm	H1 mm	h	b mm	x	m	De mm	Z	De mm	Z	normalizing Z 104 N	tempering T 104 N	
											D3/d1	D3/d1												
130.40.1250	131.40.1250	133.40.1250	1445	1055	220	1393	1107	45	26	5	1300	1213	210	50	150	+0.5	12	1509.6	123	988.8	83	22.9	31.4	1130
	132.40.1250	134.40.1250									1287	1200					14	1509.2	105	985.6	71	26.3	36.6	
130.40.1400	131.40.1400	133.40.1400	1595	1205	220	1543	1257	45	26	5	1450	1363	210	50	150	+0.5	12	1665.6	136	1144.8	96	22.9	31.4	1290
	132.40.1400	134.40.1400									1437	1350					14	1663.2	116	1139.6	82	26.3	36.6	
130.40.1600	131.40.1600	133.40.1600	1795	1405	220	1743	1457	48	26	5	1650	1563	210	50	150	+0.5	14	1873.2	131	1335.6	96	26.3	36.6	1485
	132.40.1600	134.40.1600									1637	1550					16	1868.8	114	1334.4	84	30.2	41.7	
130.40.1800	131.40.1800	133.40.1800	1995	1065	220	1943	1657	48	26	5	1850	1763	210	50	150	+0.5	14	2069.2	145	1531.6	110	26.3	36.6	1690
	132.40.1800	134.40.1800									1837	1750					16	2076.8	127	1526.4	96	30.2	41.7	
130.45.2000	131.45.2000	133.45.2000	2221	1779	231	2155	1845	60	33	6	2055	1967	219	54	160	+0.5	16	2300.8	141	1702.4	107	32.2	44.5	2130
	132.45.2000	134.45.2000									2033	1945					18	2300.4	125	1699.2	95	36.2	50.1	
130.45.2240	131.45.2240	133.45.2240	2461	2019	231	2395	2085	60	33	6	2295	2207	219	54	160	+0.5	16	2556.8	157	1926.4	121	32.2	44.5	2480
	132.45.2240	134.45.2240									2273	2185					18	2552.4	139	1933.2	108	36.2	50.1	
130.45.2500	131.45.2500	133.45.2500	2721	2279	231	2655	2345	72	33	8	2555	2467	219	54	160	+0.5	18	2822.4	154	2185.2	122	36.2	50.1	2760
	132.45.2500	134.45.2500									2533	2445					20	2816	138	2188	110	40.2	55.6	
130.45.2800	131.45.2800	133.45.2800	3021	2579	231	2955	2645	72	33	8	2855	2767	219	54	160	+0.5	18	3110.4	170	2491.2	139	36.2	50.1	3070
	132.45.2800	134.45.2800									2833	2745					20	3116	153	2488	125	40.2	55.6	
130.50.3150	131.50.3150	133.50.3150	3432	2838	270	3342	2958	72	45	8	3213	3104	258	65	180	+0.5	20	3536	174	2768	139	45.2	62.6	5000
	132.50.3150	134.50.3150									3196	3090					22	3537.6	158	2758.8	126	49.8	68.9	
130.50.3550	131.50.3550	133.50.3550	3832	3268	270	3742	3358	72	45	8	3613	3504	258	65	180	+0.5	20	3936	194	3168	159	45.2	62.6	5680
	132.50.3550	134.50.3550									3596	3490					22	3933.6	176	3154.8	144	49.8	68.9	
130.50.4000	131.50.4000	133.50.4000	4282	3718	270	4192	3808	80	45	8	4063	3954	258	65	180	+0.5	22	4395.6	197	3116.8	165	49.8	68.9	6470
	132.50.4000	134.50.4000									4046	3940					25	4395	173	3610	145	56.5	78.3	
130.50.4500	131.50.4500	133.50.4500	4782	4218	270	4692	4308	80	45	8	4563	4454	258	65	180	+0.5	22	4901.6	220	4122.8	188	49.8	68.9	7320
	132.50.4500	134.50.4500									4546	4440					25	4895	193	4110	165	56.5	78.3	