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Crossed roller slewing bearings

Crossed roller slewing bearings are composed of two seat-rings. It features compact in design, light in weight, high precision and small fitting clearance. As the rollers are 1:1 cross arranged, it is suitable for high precision mounting and capable to bear axial force, resultant moment and considerable large radial force. According to whether with gears, crossed roller slewing bearings are divided into type of without gears (Fig 1), with internal gears (Fig 2) and with external gears (Fig 3). They widely used for hoisting, transporting, engineering machines as well as for military products.

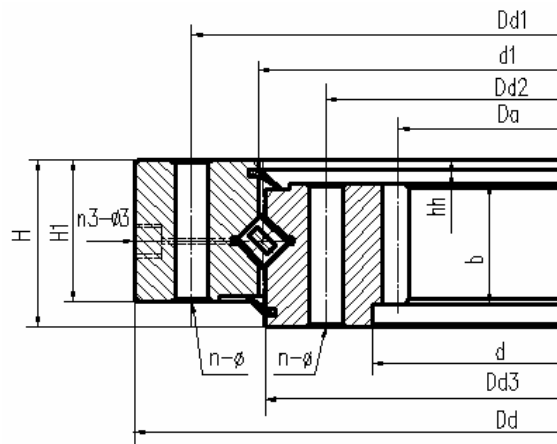


Fig 1 Crossed cylindrical roller slewing bearings without gears

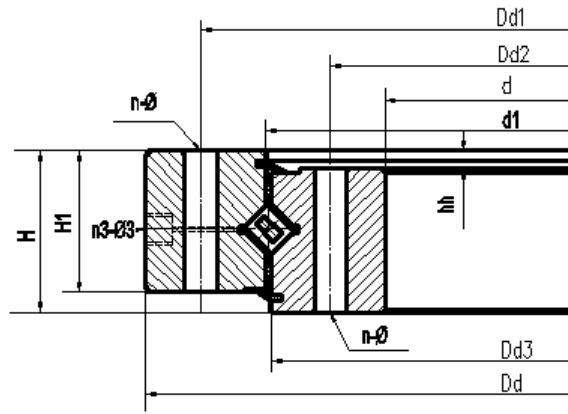


Fig 2 Crossed cylindrical roller slewing bearings with internal gears

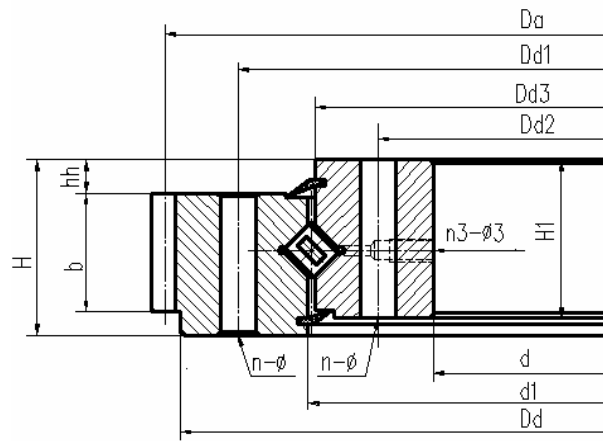


Fig 3 Crossed cylindrical roller slewing bearings with external gears

Designation	Dd	d	H	Dd1	Dd2	n	φ	Dd3	d1	H1	hh	n3	φ3	m	Da	Za	b	x
110.28.900	1022	778	82	978	822	30	22	898.5	901.5	72	10	6	M10×1					
111.28.900	1022	778	82	978	822	30	22	898.5	901.5	72	10	6	M10×1	8	1062.4	130	65	+0.5
112.28.900	1022	778	82	978	822	30	22	898.5	901.5	72	10	6	M10×1	10	1068	104	65	+0.5
113.28.900	1022	778	82	978	822	30	22	898.5	901.5	72	10	6	M10×1	8	739.2	93	65	+0.5
114.28.900	1022	778	82	978	822	30	22	898.5	901.5	72	10	6	M10×1	10	734	74	65	+0.5
110.28.1000	1122	878	82	1078	922	36	22	998.5	1001.5	72	10	6	M10×1					
111.28.1000	1122	878	82	1078	922	36	22	998.5	1001.5	72	10	6	M10×1	10	1188	116	65	+0.5
112.28.1000	1122	878	82	1078	922	36	22	998.5	1001.5	72	10	6	M10×1	12	1185.6	96	65	+0.5
113.28.1000	1122	878	82	1078	922	36	22	998.5	1001.5	72	10	6	M10×1	10	824	83	65	+0.5
114.28.1000	1122	878	82	1078	922	36	22	998.5	1001.5	72	10	6	M10×1	12	820.8	69	65	+0.5
110.28.1120	1242	998	82	1198	1042	36	22	1118	1122	72	10	6	M10×1					
111.28.1120	1242	998	82	1198	1042	36	22	1118	1122	72	10	6	M10×1	10	1298	127	65	+0.5
112.28.1120	1242	998	82	1198	1042	36	22	1118	1122	72	10	6	M10×1	12	1305.6	106	65	+0.5

Designation	Dd	d	H	Dd1	Dd2	n	φ	Dd3	d1	H1	hh	n3	φ3	m	Da	Za	b	x
113. 28. 1120	1242	998	82	1198	1042	36	22	1118	1122	72	10	6	M10×1	10	944	95	65	+0.5
114. 28. 1120	1242	998	82	1198	1042	36	22	1118	1122	72	10	6	M10×1	12	940.8	79	65	+0.5
110. 32. 1250	1390	1110	91	1337	1163	40	26	1248	1252	81	10	6	M10×1					
111. 32. 1250	1390	1110	91	1337	1163	40	26	1248	1252	81	10	6	M10×1	12	1449.6	118	75	+0.5
112. 32. 1250	1390	1110	91	1337	1163	40	26	1248	1252	81	10	6	M10×1	14	1453.2	101	75	+0.5
113. 32. 1250	1390	1110	91	1337	1163	40	26	1248	1252	81	10	6	M10×1	12	1048.8	88	75	+0.5
114. 32. 1250	1390	1110	91	1337	1163	40	26	1248	1252	81	10	6	M10×1	14	1041.6	75	75	+0.5
110. 32. 1400	1540	1260	91	1487	1313	40	26	1398	1402	81	10	6	M10×1					
111. 32. 1400	1540	1260	91	1487	1313	40	26	1398	1402	81	10	6	M10×1	12	1605.6	131	75	+0.5
112. 32. 1400	1540	1260	91	1487	1313	40	26	1398	1402	81	10	6	M10×1	14	1607.2	112	75	+0.5
113. 32. 1400	1540	1260	91	1487	1313	40	26	1398	1402	81	10	6	M10×1	123	1192.8	100	75	+0.5
114. 32. 1400	1540	1260	91	1487	1313	40	26	1398	1402	81	10	6	M10×1	14	1195.6	86	75	+0.5
110. 32. 1600	1740	1460	91	1687	1513	45	26	1598	1602	81	10	8	M10×1					
111. 32. 1600	1740	1460	91	1687	1513	45	26	1598	1602	81	10	8	M10×1	14	1817.2	127	75	+0.5
112. 32. 1600	1740	1460	91	1687	1513	45	26	1598	1602	81	10	8	M10×1	16	1820.8	111	75	+0.5
113. 32. 1600	1740	1460	91	1687	1513	45	26	1598	1602	81	10	8	M10×1	14	1391.6	100	75	+0.5
114. 32. 1600	1740	1460	91	1687	1513	45	26	1598	1602	81	10	8	M10×1	16	1382.4	87	75	+0.5
110. 32. 1800	1940	1660	91	1887	1713	45	26	1798	1802	81	10	8	M10×1					
111. 32. 1800	1940	1660	91	1887	1713	45	26	1798	1802	81	10	8	M10×1	14	2013.2	141	75	+0.5
112. 32. 1800	1940	1660	91	1887	1713	45	26	1798	1802	81	10	8	M10×1	16	2012.8	123	75	+0.5
113. 32. 1800	1940	1660	91	1887	1713	45	26	1798	1802	81	10	8	M10×1	14	1573.6	113	75	+0.5
114. 32. 1800	1940	1660	91	1887	1713	45	26	1798	1802	81	10	8	M10×1	16	1574.4	99	75	+0.5
110. 40. 2000	2178	1825	112	2110	1891	48	33	1998	2002	100	12	8	M10×1					
111. 40. 2000	2178	1825	112	2110	1891	48	33	1998	2002	100	12	8	M10×1	16	2268.8	139	90	+0.5
112. 40. 2000	2178	1825	112	2110	1891	48	33	1998	2002	100	12	8	M10×1	18	2264.4	123	90	+0.5
113. 40. 2000	2178	1825	112	2110	1891	48	33	1998	2002	100	12	8	M10×1	16	1734.4	109	90	+0.5
114. 40. 2000	2178	1825	112	2110	1891	48	33	1998	2002	100	12	8	M10×1	18	1735.2	97	90	+0.5
110. 40. 2240	2418	2065	112	2350	2131	48	33	2237.5	2242.5	100	12	8	M10×1					
111. 40. 2240	2418	2065	112	2350	2131	48	33	2237.5	2242.5	100	12	8	M10×1	16	2492.8	153	90	+0.5
112. 40. 2240	2418	2065	112	2350	2131	48	33	2237.5	2242.5	100	12	8	M10×1	18	2498.4	136	90	+0.5
113. 40. 2240	2418	2065	112	2350	2131	48	33	2237.5	2242.5	100	12	8	M10×1	16	1990.4	125	90	+0.5
114. 40. 2240	2418	2065	112	2350	2131	48	33	2237.5	2242.5	100	12	8	M10×1	18	1987.2	111	90	+0.5
110. 40. 2500	2678	2325	112	2610	2391	56	33	2497.5	2502.5	100	12	8	M10×1					
111. 40. 2500	2678	2325	112	2610	2391	56	33	2497.5	2502.5	100	12	8	M10×1	18	2768.4	151	90	+0.5
112. 40. 2500	2678	2325	112	2610	2391	56	33	2497.5	2502.5	100	12	8	M10×1	20	2776	136	90	+0.5
113. 40. 2500	2678	2325	112	2610	2391	56	33	2497.5	2502.5	100	12	8	M10×1	18	2239.2	125	90	+0.5
114. 40. 2500	2678	2325	112	2610	2391	56	33	2497.5	2502.5	100	12	8	M10×1	20	2228	112	90	+0.5
110. 40. 2800	2978	2625	112	2910	2691	56	33	2797.5	2802.5	100	12	8	M10×1					
111. 40. 2800	2978	2625	112	2910	2691	56	33	2797.5	2802.5	100	12	8	M10×1	18	3074.4	168	90	+0.5

Designation	Dd	d	H	Dd1	Dd2	n	φ	Dd3	d1	H1	hh	n3	φ3	m	Da	Za	b	x
112. 40. 2800	2978	2625	112	2910	2691	56	33	2797.5	2802.5	100	12	8	M10×1	20	3076	151	90	+0.5
113. 40. 2800	2978	2625	112	2910	2691	56	33	2797.5	2802.5	100	12	8	M10×1	18	2527.2	141	90	+0.5
114. 40. 2800	2978	2625	112	2910	2691	56	33	2797.5	2802.5	100	12	8	M10×1	20	2528	127	90	+0.5
110. 50. 3150	3376	2922	134	3286	3014	56	45	3147.5	3152.5	122	12	8	M10×1					
111. 50. 3150	3376	2922	134	3286	3014	56	45	3147.5	3152.5	122	12	8	M10×1	20	3476	171	110	+0.5
112. 50. 3150	3376	2922	134	3286	3014	56	45	3147.5	3152.5	122	12	8	M10×1	22	3471.6	155	110	+0.5
113. 50. 3150	3376	2922	134	3286	3014	56	45	3147.5	3152.5	122	12	8	M10×1	20	2828	142	110	+0.5
114. 50. 3150	3376	2922	134	3286	3014	56	45	3147.5	3152.5	122	12	8	M10×1	22	2824.8	129	110	+0.5
110. 50. 3550	3776	3322	134	3686	3414	56	45	3547.5	3552.5	122	12	8	M10×1					
111. 50. 3550	3776	3322	134	3686	3414	56	45	3547.5	3552.5	122	12	8	M10×1	20	3876	191	110	+0.5
112. 50. 3550	3776	3322	134	3686	3414	56	45	3547.5	3552.5	122	12	8	M10×1	22	3889.6	174	110	+0.5
113. 50. 3550	3776	3322	134	3686	3414	56	45	3547.5	3552.5	122	12	8	M10×1	20	3228	162	110	+0.5
114. 50. 3550	3776	3322	134	3686	3414	56	45	3547.5	3552.5	122	12	8	M10×1	22	3220.8	147	110	+0.5
110. 50. 4000	4226	3772	134	4136	3864	60	45	3997.5	4002.5	122	12	10	M10×1					
111. 50. 4000	4226	3772	134	4136	3864	60	45	3997.5	4002.5	122	12	10	M10×1	22	4329.6	194	110	+0.5
112. 50. 4000	4226	3772	134	4136	3864	60	45	3997.5	4002.5	122	12	10	M10×1	25	4345	171	110	+0.5
113. 50. 4000	4226	3772	134	4136	3864	60	45	3997.5	4002.5	122	12	10	M10×1	22	3660.8	167	110	+0.5
114. 50. 4000	4226	3772	134	4136	3864	60	45	3997.5	4002.5	122	12	10	M10×1	25	3660	147	110	+0.5
110. 50. 4500	4726	4272	134	4636	4364	60	45	4497.5	4502.5	122	12	10	M10×1					
111. 50. 4500	4726	4272	134	4636	4364	60	45	4497.5	4502.5	122	12	10	M10×1	22	4835.6	217	110	+0.5
112. 50. 4500	4726	4272	134	4636	4364	60	45	4497.5	4502.5	122	12	10	M10×1	25	4845	191	110	+0.5
113. 50. 4500	4726	4272	134	4636	4364	60	45	4497.5	4502.5	122	12	10	M10×1	22	4166.8	190	110	+0.5
114. 50. 4500	4726	4272	134	4636	4364	60	45	4497.5	4502.5	122	12	10	M10×1	25	4160	167	110	+0.5