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Double-row ball slewing bearings

Double-row ball slewing bearings are composed of up and down double-row rolling balls, inner and outer rolling rings, sliders and devices of lubricating and sealing. Attachment screws which connect up and down rolling balls should be allocated in the circle in order that bearings can be a complete unit before fitting on the host machine. For the sake of adjusting axial clearance of bearings, spacer shim should be fitted between the up and down rolling balls or not but defining clearance through matching the end face in the occasion of assemblage. Double-row ball slewing bearings can accommodate combined loads including axial loads, radial loads and lifting moments because of the up and down double-row rolling balls, and their axial and radial sizes are big and the structure is firm. According to whether with gears, double-row ball slewing bearings can be divided into without gear type (Fig 1), internal gear type (Fig 2) and external gear type (Fig 3). They are especially suitable for tower cranes which require working radius over medium range, mobile cranes and loading and unloading machines.

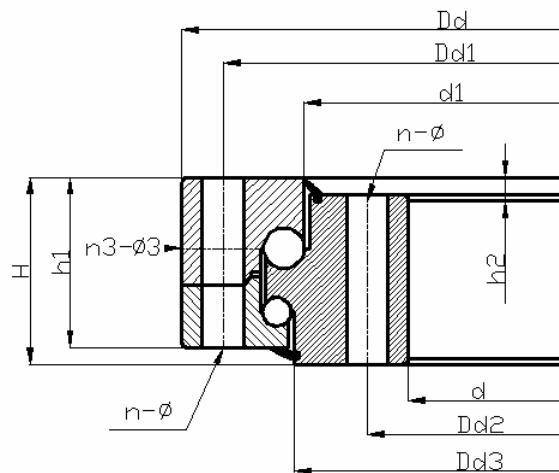


Fig 1 Double-row ball slewing bearings without gears

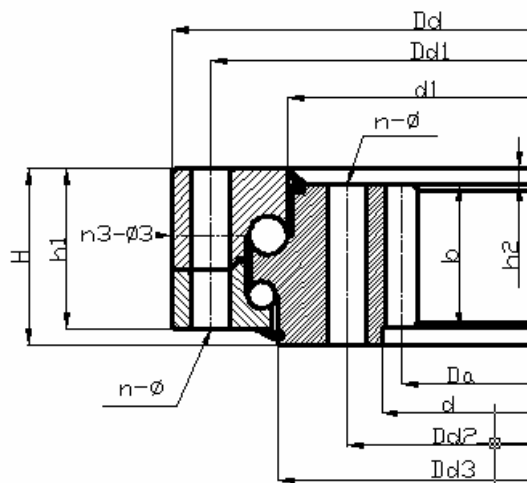


Fig 2 Double-row ball slewing bearings with internal gears

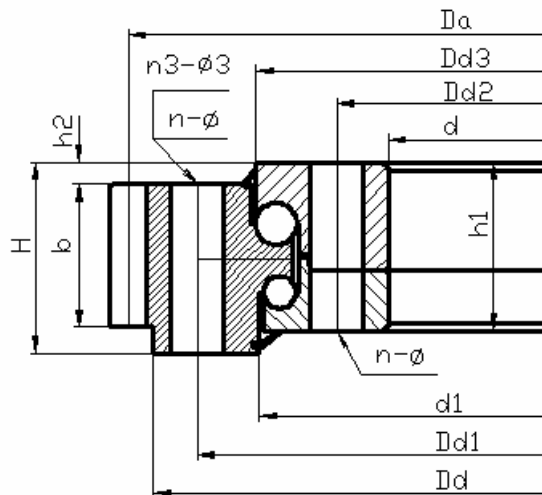


Fig 3 Double-row ball slewing bearings with external gears

Designation	Dd	d	H	Dd1	Dd2	n	φ	Dd3	d1	h1	h2	n3	φ3	m	Da	Za	b	x
020.30.900	1042	758	124	998	802	30	22	928	922	114	29	6	M10×1					
021.30.900	1042	758	124	998	802	30	22	928	922	114	29	6	M10×1	8	1088	133	80	0.5
022.30.900	1042	758	124	998	802	30	22	878	871	114	29	6	M10×1	10	1090	106	80	0.5
023.30.900	1042	758	124	998	802	30	22	928	922	114	29	6	M10×1	8	712	90	80	0.5
024.30.900	1042	758	124	998	802	30	22	878	871	114	29	6	M10×1	10	710	72	80	0.5
020.30.1000	1142	858	124	1098	902	36	22	1028	1022	114	29	6	M10×1					
021.30.1000	1142	858	124	1098	902	36	22	1028	1022	114	29	6	M10×1	10	1200	117	80	0.5
022.30.1000	1142	858	124	1098	902	36	22	978	971	114	29	6	M10×1	12	1200	97	80	0.5
023.30.1000	1142	858	124	1098	902	36	22	1028	1022	114	29	6	M10×1	10	810	82	80	0.5

Designation	Dd	d	H	Dd1	Dd2	n	ϕ	Dd3	d1	h1	h2	n3	$\phi 3$	m	Da	Za	b	x
024.30.1000	1142	858	124	1098	902	36	22	978	971	114	29	6	M10×1	12	792	67	80	0.5
020.30.1120	1262	978	124	1218	1022	36	22	1148	1142	114	29	6	M10×1					
021.30.1120	1262	978	124	1218	1022	36	22	1148	1142	114	29	6	M10×1	10	1320	129	80	0.5
022.30.1120	1262	978	124	1218	1022	36	22	1098	1091	114	29	6	M10×1	12	1320	107	80	0.5
023.30.1120	1262	978	124	1218	1022	36	22	1148	1142	114	29	6	M10×1	10	920	93	80	0.5
024.30.1120	1262	978	124	1218	1022	36	22	1098	1091	114	29	6	M10×1	12	912	77	80	0.5
020.40.1250	1426	1074	160	1374	1126	40	26	1286	1282	150	39	6	M10×1					
021.40.1250	1426	1074	160	1374	1126	40	26	1286	1282	150	39	6	M10×1	12	1500	122	90	0.5
022.40.1250	1426	1074	160	1374	1126	40	26	1218	1214	150	39	6	M10×1	14	1498	104	90	0.5
023.40.1250	1426	1074	160	1374	1126	40	26	1286	1282	150	39	6	M10×1	12	1008	85	90	0.5
024.40.1250	1426	1074	160	1374	1126	40	26	1218	1214	150	39	6	M10×1	14	1008	73	90	0.5
020.40.1400	1576	1224	160	1524	1272	40	26	1436	1432	150	39	6	M10×1					
021.40.1400	1576	1224	160	1524	1272	40	26	1436	1432	150	39	6	M10×1	12	1644	134	90	0.5
022.40.1400	1576	1224	160	1524	1272	40	26	1368	1364	150	39	6	M10×1	14	1652	115	90	0.5
023.40.1400	1576	1224	160	1524	1272	40	26	1436	1432	150	39	6	M10×1	12	1152	97	90	0.5
024.40.1400	1576	1224	160	1524	1272	40	26	1368	1364	150	39	6	M10×1	14	1148	83	90	0.5
020.40.1600	1776	1424	160	1724	1476	45	26	1636	1632	150	39	8	M10×1					
021.40.1600	1776	1424	160	1724	1476	45	26	1636	1632	150	39	8	M10×1	14	1848	129	90	0.5
022.40.1600	1776	1424	160	1724	1476	45	26	1568	1564	150	39	8	M10×1	16	1856	113	90	0.5
023.40.1600	1776	1424	160	1724	1476	45	26	1636	1632	150	39	8	M10×1	14	1344	97	90	0.5
024.40.1600	1776	1424	160	1724	1476	45	26	1568	1564	150	39	8	M10×1	16	1344	85	90	0.5
020.40.1800	1976	1624	160	1924	1676	45	26	1836	1832	150	39	8	M10×1					
021.40.1800	1976	1624	160	1924	1676	45	26	1836	1832	150	39	8	M10×1	14	2058	144	90	0.5
022.40.1800	1976	1624	160	1924	1676	45	26	1768	1764	150	39	8	M10×1	16	2064	126	90	0.5
023.40.1800	1976	1624	160	1924	1676	45	26	1836	1832	150	39	8	M10×1	14	1540	111	90	0.5
024.40.1800	1976	1624	160	1924	1676	45	26	1768	1764	150	39	8	M10×1	16	1536	97	90	0.5
020.50.2000	2215	1785	190	2149	1851	48	33	2038	2032	178	47	8	M10×1					
021.50.2000	2215	1785	190	2149	1851	48	33	2038	2032	178	47	8	M10×1	16	2304	141	120	0.5
022.50.2000	2215	1785	190	2149	1851	48	33	1968	1962	178	47	8	M10×1	18	2304	125	120	0.5
023.50.2000	2215	1785	190	2149	1851	48	33	2038	2032	178	47	8	M10×1	16	1696	107	120	0.5
024.50.2000	2215	1785	190	2149	1851	48	33	1968	1962	178	47	8	M10×1	18	1692	95	120	0.5
020.50.2240	2455	2025	190	2389	2091	48	33	2278	2272	178	47	8	M10×1					
021.50.2240	2455	2025	190	2389	2091	48	33	2278	2272	178	47	8	M10×1	16	2544	156	120	0.5
022.50.2240	2455	2025	190	2389	2091	48	33	2208	2202	178	47	8	M10×1	18	2556	139	120	0.5
023.50.2240	2455	2025	190	2389	2091	48	33	2278	2272	178	47	8	M10×1	16	1936	122	120	0.5
024.50.2240	2455	2025	190	2389	2091	48	33	2208	2202	178	47	8	M10×1	18	1926	108	120	0.5
020.50.2500	2715	2285	190	2649	2351	56	33	2538	2532	178	47	8	M10×1					
021.50.2500	2715	2285	190	2649	2351	56	33	2538	2532	178	47	8	M10×1	18	2804	153	120	0.5
022.50.2500	2715	2285	190	2649	2315	56	33	2468	2462	178	47	8	M10×1	20	2820	138	120	0.5

Designation	Dd	d	H	Dd1	Dd2	n	φ	Dd3	d1	h1	h2	n3	φ3	m	Da	Za	b	x
023. 50. 2500	2715	2285	190	2649	2315	56	33	2538	2532	178	47	8	M10×1	18	2196	123	120	0.5
024. 50. 2500	2715	2285	190	2649	2315	56	33	2468	2462	178	47	8	M10×1	20	2180	110	120	0.5
021. 50. 2500. 12	2715	2285	190	2649	2315	56	33	2550	2538	178	47	8	M10×1	18	2804.4	153	120	0.5
020. 50. 2800	3015	2585	190	2949	2651	56	33	2838	2832	178	47	8	M10×1					
021. 50. 2800	3015	2585	190	2949	2651	56	33	2838	2832	178	47	8	M10×1	18	3114	170	120	0.5
022. 50. 2800	3015	2585	190	2949	2651	56	33	2768	2762	178	47	8	M10×1	20	3120	153	120	0.5
023. 50. 2800	3015	2585	190	2949	2651	56	33	2838	2832	178	47	8	M10×1	18	2484	139	120	0.5
024. 50. 2800	3015	2585	190	2949	2651	56	33	2768	2762	178	47	8	M10×1	20	2480	125	120	0.5
020. 60. 3150	3428	2872	226	3338	2962	56	45	3198	3192	214	56	8	M10×1					
021. 60. 3150	3428	2872	226	3338	2962	56	45	3198	3192	214	56	8	M10×1	20	3540	174	150	0.5
022. 60. 3150	3428	2872	226	3338	2962	56	45	3108	3102	214	56	8	M10×1	22	3542	158	150	0.5
023. 60. 3150	3428	2872	226	3338	2962	56	45	3198	3192	214	56	8	M10×1	20	2760	139	150	0.5
024. 60. 3150	3428	2872	226	3338	2962	56	45	3108	3102	214	56	8	M10×1	22	2750	126	150	0.5
020. 60. 3550	3828	3272	226	3738	3362	56	45	3598	3592	214	56	8	M10×1					
021. 60. 3550	3828	3272	226	3738	3362	56	45	3598	3592	214	56	8	M10×1	20	3940	194	150	0.5
022. 60. 3550	3828	3272	226	3738	3362	56	45	3508	3502	214	56	8	M10×1	22	3938	176	150	0.5
023. 60. 3550	3828	3272	226	3738	3362	56	45	3598	3592	214	56	8	M10×1	20	3160	159	150	0.5
024. 60. 3550	3828	3272	226	3738	3362	56	45	3508	3502	214	56	8	M10×1	22	3168	145	150	0.5
020. 60. 4000	4278	3722	226	4188	3812	60	45	4048	4042	214	56	10	M10×1					
021. 60. 4000	4278	3722	226	4188	3812	60	45	4048	4042	214	56	10	M10×1	22	4400	197	150	0.5
022. 60. 4000	4278	3722	226	4188	3812	60	45	3958	3952	214	56	10	M10×1	25	4400	173	150	0.5
023. 60. 4000	4278	3722	226	4188	3812	60	45	4048	4042	214	56	10	M10×1	22	3608	165	150	0.5
024. 60. 4000	4278	3722	226	4188	3812	60	45	3958	3952	214	56	10	M10×1	25	3600	145	150	0.5
020. 60. 4500	4778	4222	226	4688	4312	60	45	4548	4542	214	56	10	M10×1					
021. 60. 4500	4778	4222	226	4688	4312	60	45	4548	4542	214	56	10	M10×1	22	4884	219	150	0.5
022. 60. 4500	4778	4222	226	4688	4312	60	45	4458	4452	214	56	10	M10×1	25	4900	193	150	0.5
023. 60. 4500	4778	4222	226	4688	4312	60	45	4548	4542	214	56	10	M10×1	22	4114	188	150	0.5
024. 60. 4500	4778	4222	226	4688	4312	60	45	4458	4452	214	56	10	M10×1	25	4100	165	150	0.5