

UR-A376CL POINT LOADINGS

Calculation of reaction forces of the outriggers for model URA376CL with fully extended outriggers

**Working radius 2400mm
Rated load 2900kg
Number of booms 1**



Angle	OR1	OR2	OR3	OR4
0	3030	3030	610	610
5	2926	3127	715	513
10	2814	3215	826	425
15	2697	3295	943	346
20	2575	3364	1066	276
25	2448	3423	1192	217
30	2318	3472	1322	168
35	2186	3510	1455	131
40	2052	3563	1588	104
45	1918	3551	1722	90
50	1795	3554	1855	86
55	1654	3545	1986	95
60	1526	3525	2114	115
65	1401	3493	2239	147
70	1281	3451	2359	190
75	1167	3397	2473	243
80	1059	3333	2581	307
85	959	3259	2681	382
90	867	3175	2774	465
95	783	3083	2857	558
100	709	2982	2931	658
105	645	2875	2996	766
110	591	2780	3049	880
115	548	2640	3092	1000
120	517	2516	3124	1124
125	496	2387	3144	1253
130	488	2256	3152	1384
135	491	2123	3149	1517
140	506	1990	3134	1651
145	532	1856	3108	1784
150	570	1724	3071	1916
155	618	1594	3022	2046
160	678	1467	2963	2173
165	747	1345	2893	2296
170	826	1227	2814	2413
175	915	1116	2725	2524
180	1012	1012	2629	2629
Max	3030	3554	3963	2629

All units in kg

UR-A376CL POINT LOADINGS

Calculation of reaction forces of the outriggers for model **URA376CL with fully extended outriggers**

Working radius **2400mm
Rated load **2900kg**
Number of booms **1+2****



Angle	OR1	OR2	OR3	OR4
0	3043	3043	599	599
5	2938	3141	705	501
10	2825	3230	817	412
15	2706	3311	936	332
20	2582	3381	1060	261
25	2454	3441	1188	201
30	2323	3490	1320	152
35	2189	3528	1453	114
40	2054	3555	1589	87
45	1918	3570	1724	72
50	1784	3573	1858	69
55	1651	3564	1991	78
60	1521	3544	2121	98
65	1395	3512	2247	130
70	1274	3469	2368	174
75	1158	3414	2484	228
80	1049	3349	2593	293
85	948	3274	2694	368
90	854	3190	2788	452
95	770	3096	2872	546
100	695	2995	2947	648
105	630	2886	3012	757
110	576	2770	3067	872
115	532	2649	3110	993
120	500	2523	3142	1119
125	480	2393	3162	1249
130	471	2260	3171	1382
135	474	2126	3168	1516
140	489	1990	3153	1652
145	516	1855	3126	1787
150	554	1722	3088	1921
155	603	1590	3039	2052
160	663	1462	2979	2180
165	734	1338	2909	2304
170	814	1219	2829	2423
175	903	1107	2739	2536
180	1001	1001	2641	2641
Max	3043	3573	3171	2641

All units in kg

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Calculation of reaction forces of the outriggers for model URA376CL with fully extended outriggers

Working radius 7840mm
Rated load 630kg
Number of booms 1+2+3



Angle	OR1	OR2	OR3	OR4
0	2042	2042	164	164
5	1947	2130	259	76
10	1841	2215	355	0
15	1662	2359	390	0
20	1487	2486	438	0
25	1318	2594	500	0
30	1155	2682	574	0
35	1001	2751	660	0
40	855	2799	757	0
45	720	2862	866	0
50	597	2831	984	0
55	485	2816	1111	0
60	387	2779	1246	0
65	302	2721	1388	0
70	232	2644	1536	0
75	177	2546	1689	0
80	137	2429	1845	0
85	113	2294	2004	0
90	73	2174	2133	32
95	0	2087	2211	113
100	0	1928	2346	137
105	0	1772	2463	177
110	0	1619	2561	232
115	0	1471	2639	302
120	0	1329	2696	387
125	0	1193	2733	485
130	0	1066	2749	597
135	0	948	2743	720
140	0	840	2716	855
145	0	742	2668	1001
150	0	656	2600	1155
155	0	582	2511	1318
160	0	521	2403	1487
165	0	473	2277	1662
170	37	401	2169	1804
175	117	300	2089	1906
180	205	205	2001	2001
Max	2042	2831	2749	2001

All units in kg

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Calculation of reaction forces of the outriggers for model URA376CL with fully extended outriggers

Working radius 9990mm

Rated load 430kg

Number of booms 1+2+3+4



Angle	OR1	OR2	OR3	OR4
0	1922	1922	160	160
5	1831	2006	250	76
10	1734	2084	346	0
15	1563	2222	379	0
20	1396	2342	425	0
25	1235	2445	483	0
30	1080	2530	554	0
35	932	2595	636	0
40	794	2641	729	0
45	665	2666	832	0
50	547	2672	945	0
55	440	3657	1066	0
60	346	2622	1195	0
65	266	2567	1331	0
70	199	2493	1472	0
75	146	2399	1618	0
80	108	2288	1767	0
85	85	2159	1919	0
90	44	2048	2038	34
95	0	1939	2139	85
100	0	1788	2268	108
105	0	1638	2379	146
110	0	1493	2472	199
115	0	1351	2547	266
120	0	1216	2602	346
125	0	1087	2637	440
130	0	966	2651	547
135	0	853	2646	665
140	0	750	2620	794
145	0	656	2575	932
150	0	574	2509	1080
155	0	504	2425	1235
160	0	445	2322	1396
165	0	399	2201	1563
170	9	357	2073	1725
175	86	260	1996	1821
180	170	170	1912	1912
Max	1922	2672	2651	1912

All units in kg

UR-A376CL POINT LOADINGS

Calculation of reaction forces of the outriggers for model **URA376CL** with fully extended outriggers

Working radius **12140mm**
 Rated load **230kg**
 Number of booms **1+2+3+4+5**



Angle	OR1	OR2	OR3	OR4
0	1684	1684	273	273
5	1610	1753	347	204
10	1531	1815	426	142
15	1448	1872	509	86
20	1361	1921	596	36
25	1265	1969	680	0
30	1138	2038	738	0
35	1018	2091	805	0
40	905	2129	881	0
45	799	2150	966	0
50	703	2154	1058	0
55	616	2142	1157	0
60	539	2113	1262	0
65	473	2068	1373	0
70	418	2008	1489	0
75	362	1944	1595	13
80	286	1899	1671	58
85	215	1846	1742	111
90	149	1787	1808	170
95	90	1721	1867	236
100	37	1650	1920	307
105	0	1566	1974	375
110	0	1446	2050	418
115	0	1331	2111	473
120	0	1220	2155	539
125	0	1115	2194	616
130	0	1016	2196	703
135	0	924	2192	799
140	0	839	2171	905
145	0	763	2134	1018
150	0	696	2080	1138
155	0	638	2011	1265
160	15	575	1942	1382
165	64	488	1893	1469
170	121	405	1837	1552
175	183	326	1774	1631
180	252	252	1705	1705
Max	1684	2154	2196	1705

All units in kg

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Calculation of reaction forces of the outriggers for model **URA376CL** with fully extended outriggers

Working radius **14290mm**
 Rated load **130kg**
 Number of booms **1+2+3+4+5+6**



Angle	OR1	OR2	OR3	OR4
0	1562	1562	335	335
5	1496	1622	400	274
10	1427	1678	470	219
15	1353	1727	543	169
20	1276	1771	620	126
25	1197	1808	699	88
30	1116	1838	780	58
35	1033	1862	863	34
40	950	1878	947	18
45	866	1888	1030	9
50	783	1889	1114	7
55	700	1884	1196	12
60	620	1871	1276	25
65	542	1852	1354	45
70	467	1825	1429	71
75	396	1791	1501	105
80	328	1751	1568	145
85	265	1705	1631	192
90	307	1652	1689	244
95	155	1595	1741	302
100	109	1532	1788	365
105	69	1464	1828	432
110	35	1393	1861	504
115	8	1318	1888	579
120	0	1228	1920	645
125	0	1135	1945	713
130	0	1048	1955	789
135	0	966	1952	875
140	0	839	1933	967
145	0	825	1900	1067
150	22	744	1875	1152
155	52	663	1844	1234
160	89	583	1807	1313
165	133	507	1764	1390
170	182	433	1714	1463
175	238	364	1659	1533
180	298	298	1598	1598
Max	1562	1889	1955	1598

All units in kg