

# UR-A506CL POINT LOADINGS

**Calculation of reaction forces of the outriggers for model URA506CL with fully extended outriggers**

**Working radius 3400mm**  
**Rated load 3000kg**  
**Number of booms 1**



Angle	OR1	OR2	OR3	OR4
0	3485	3485	753	753
5	3371	3589	867	649
10	3249	3683	989	554
15	3119	3767	1118	471
20	2984	3839	1254	398
25	2842	3900	1396	338
30	2697	3948	1541	290
35	2548	3983	1690	255
40	2397	4005	1841	233
45	2245	4014	1993	224
50	2093	4010	2145	228
55	1943	3992	2295	246
60	1795	3962	2443	276
65	1650	3918	2587	320
70	1511	3862	2727	376
75	1377	3794	2861	444
80	1250	3714	2987	523
85	1131	3624	3107	614
90	1021	3523	3217	715
95	920	3412	3318	825
100	829	3293	3409	945
105	749	3166	3488	1072
110	681	3032	3556	1205
115	625	2893	3612	1345
120	582	2749	3656	1489
125	551	2601	3687	1637
130	534	2450	3704	1787
135	529	2299	3708	1939
140	538	2147	3699	2091
145	561	1996	3677	2242
150	596	1847	3642	2391
155	644	1701	3594	2537
160	704	1560	3534	2678
165	776	1424	3461	2814
170	860	1295	3378	2943
175	954	1172	3283	3065
180	1059	1059	3179	3178
<b>Max</b>	<b>3485</b>	<b>4014</b>	<b>3708</b>	<b>3179</b>

All units in kg

# UR-A506CL POINT LOADINGS

**Calculation of reaction forces of the outriggers for model URA506CL with fully extended outriggers**

**Working radius 3400mm**  
**Rated load 3000kg**  
**Number of booms 1+2**



Angle	OR1	OR2	OR3	OR4
0	3507	3507	733	733
5	3391	3613	848	627
10	3267	3709	973	530
15	3135	3794	1104	445
20	2997	3868	1243	372
25	2853	3929	1386	310
30	2705	3978	1535	262
35	2554	4014	1686	226
40	2400	4037	1840	203
45	2245	4046	1994	194
50	2091	4041	2149	198
55	1938	4023	2302	216
60	1788	3992	2452	247
65	1641	3948	2599	292
70	1499	3891	2741	349
75	1363	3822	2877	418
80	1234	3741	3006	499
85	1112	3649	3127	591
90	1000	3546	3240	694
95	897	3433	3343	806
100	805	3312	3435	928
105	724	3183	3516	1057
110	655	3047	3585	1193
115	598	2905	3642	1335
120	553	2758	3686	1482
125	522	2608	3717	1632
130	504	2455	3735	1785
135	500	2300	3740	1939
140	509	2146	3730	2094
145	532	1992	3708	2248
150	568	1841	3672	2399
155	616	1692	3623	2547
160	678	1549	3562	2691
165	751	1410	3488	2829
170	836	1279	3403	2961
175	933	1154	3307	3085
180	1039	1039	3201	3201
Max	3507	4046	3740	3201

All units in kg

# UR-A506CL POINT LOADINGS

**Calculation of reaction forces of the outriggers for model **URA506CL** with fully extended outriggers**

**Working radius 3400mm**  
**Rated load 3000kg**  
**Number of booms 1+2+3**



Angle	OR1	OR2	OR3	OR4
0	3504	3504	738	738
5	3388	3609	853	632
10	3265	3705	977	536
15	3133	3790	1108	451
20	2996	3863	1246	378
25	2852	3924	1389	317
30	2705	3973	1537	268
35	2554	4009	1688	233
40	2400	4031	1841	210
45	2246	4040	1995	201
50	2093	4036	2149	205
55	1940	4018	2301	223
60	1790	3987	2451	254
65	1641	3943	2597	298
70	1502	3886	2739	355
75	1367	3817	2874	424
80	1238	3736	3003	505
85	1117	3645	3124	597
90	1005	3542	3236	699
95	903	3430	3338	811
100	811	3309	3430	932
105	730	3181	3511	1061
110	661	3040	3580	1196
115	604	2904	3637	1338
120	529	2757	3712	1643
125	529	2607	3712	1634
130	512	2455	3730	1786
135	507	2301	3734	1940
140	516	2147	3725	2094
145	539	1994	3702	3347
150	575	1843	3667	2398
155	623	1695	3618	2546
160	684	1552	3557	2689
165	758	1414	3484	2827
170	842	1283	3399	2958
175	938	1159	3303	3082
180	1044	1044	3197	3197
<b>Max</b>	<b>3504</b>	<b>4040</b>	<b>3734</b>	<b>3347</b>

All units in kg

# UR-A506CL POINT LOADINGS

**Calculation of reaction forces of the outriggers for model **URA506CL** with fully extended outriggers**

**Working radius **10800mm****

**Rated load **670kg****

**Number of booms **1+2+3+4****



Angle	OR1	OR2	OR3	OR4
0	2574	2574	193	193
5	2464	2674	303	92
10	2346	2766	421	1
15	2141	2926	466	0
20	1940	3065	528	0
25	1746	3128	606	0
30	1559	3275	700	0
35	1381	3343	810	0
40	1214	3385	934	0
45	1058	3403	1072	0
50	916	3395	1223	0
55	788	3361	1385	0
60	674	3302	1558	0
65	577	3218	1739	0
70	496	3110	1928	0
75	433	2978	2123	0
80	387	2824	2322	0
85	301	2708	2466	59
90	194	2610	2573	156
95	97	2504	2670	263
100	9	2389	2758	378
105	0	2198	2902	433
110	0	2003	3034	496
115	0	1815	3142	577
120	0	1633	3226	674
125	0	1461	3285	788
130	0	1299	3319	916
135	0	1148	3327	1058
140	0	1010	3310	1214
145	0	886	3267	1381
150	0	776	3199	1559
155	0	682	3106	1746
160	0	603	2990	1940
165	0	542	2850	2141
170	39	459	2728	2308
175	130	341	2636	2426
180	231	231	2536	2536
Max	3504	4040	3734	3347

All units in kg

# UR-A506CL POINT LOADINGS

**Calculation of reaction forces of the outriggers for model URA506CL with fully extended outriggers**

**Working radius 13100mm**  
**Rated load 380kg**  
**Number of booms 1+2+3+4+5**



Angle	OR1	OR2	OR3	OR4
0	2264	2264	322	322
5	2174	2348	413	239
10	2076	2423	510	163
15	1973	2490	614	97
20	1864	2548	722	39
25	1742	2605	826	0
30	1587	2682	904	0
35	1440	2738	995	0
40	1302	2773	1097	0
45	1174	2788	1212	0
50	1056	2781	1336	0
55	950	2753	1470	0
60	856	2704	1613	0
65	776	2635	1763	0
70	688	2566	1898	21
75	581	2512	2005	75
80	480	2448	2106	139
85	385	2376	2202	211
90	297	2295	2290	292
95	216	2207	2370	380
100	144	2112	2443	475
105	80	2010	2506	576
110	26	1903	2561	683
115	0	1773	2625	776
120	0	1623	2894	856
125	0	1480	2743	950
130	0	1346	2771	1056
135	0	1222	2778	1174
140	0	1108	2763	1302
145	0	1005	2728	1440
150	0	914	2672	1587
155	0	836	2595	1742
160	44	727	2543	1859
165	102	619	2485	1968
170	169	515	2418	2971
175	244	418	2343	2169
180	327	327	2259	2259
Max	2264	2788	2778	2259

All units in kg

# UR-A506CL POINT LOADINGS

**Calculation of reaction forces of the outriggers for model URA506CL with fully extended outriggers**

**Working radius 15640mm**

**Rated load 180kg**

**Number of booms 1+2+3+4+5+6**



Angle	OR1	OR2	OR3	OR4
0	1997	1997	465	465
5	1925	2064	538	399
10	1847	2124	616	338
15	1764	2178	699	285
20	1677	2224	785	239
25	1587	2262	876	200
30	1494	2293	969	170
35	1399	2315	1064	147
40	1302	2329	1160	133
45	1205	2335	1257	127
50	1108	2332	1354	130
55	1012	2321	1450	141
60	918	2302	1545	161
65	826	2274	1637	189
70	737	2238	1726	224
75	651	2195	1811	268
80	570	2144	1892	319
85	494	2086	1968	377
90	424	2021	2039	441
95	359	1951	2103	512
100	301	1875	2161	588
105	250	1794	2212	669
110	207	1708	2256	754
115	171	1619	2291	843
120	143	1527	2319	935
125	124	1433	2339	1030
130	113	1337	2350	1126
135	110	1240	2353	1223
140	116	1143	2347	1320
145	130	1046	2333	1416
150	152	951	2310	1511
155	183	858	2280	1604
160	221	768	2241	1695
165	268	681	2195	1781
170	321	598	2142	1864
175	381	520	2081	1942
180	448	448	2015	2015
<b>Max</b>	<b>1997</b>	<b>2335</b>	<b>2353</b>	<b>2015</b>

All units in kg