

URW-A295CR POINT LOADINGS

**Calculation of reaction forces of
the outriggers for model URW295C
with fully extended outriggers**

**Working radius 1400mm
Rated load 2900kg
Number of booms 1**



Angle	OR1	OR2	OR3	OR4
0	1984	1984	773	773
5	1922	2039	834	717
10	1857	2090	900	667
15	1787	2134	970	622
20	1713	2172	1043	584
25	1636	2203	1120	553
30	1557	2226	1200	529
35	1475	2245	1281	511
40	1393	2255	1364	501
45	1309	2258	1447	498
50	1226	2254	1530	503
55	1143	2242	1613	514
60	1062	2223	1695	533
65	982	2198	1775	559
70	904	2165	1852	591
75	830	2126	1926	630
80	759	2080	1997	676
85	693	2029	2064	727
90	631	1972	2126	764
95	574	1910	2183	846
100	522	1844	2234	913
105	477	1773	2279	984
110	438	1698	2319	1058
115	405	1621	2351	1135
120	379	1541	2377	1215
125	361	1460	2396	1297
130	349	1377	2407	1380
135	345	1293	2412	1463
140	348	1210	2409	1546
145	358	1127	2398	1629
150	375	1046	2381	1710
155	400	967	2357	1790
160	431	890	2325	1866
165	469	816	2287	1940
170	513	746	2243	2010
175	563	680	2193	2076
180	619	619	2137	2137
Max	1984	2258	2412	2137

All units in kg

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**Calculation of reaction forces of
the outriggers for model URW295C
with fully extended outriggers**

**Working radius 1400mm
Rated load 2900kg
Number of booms 1+2**



Angle	OR1	OR2	OR3	OR4
0	1988	1988	769	769
5	1926	2044	830	712
10	1860	2094	896	662
15	1789	2139	967	617
20	1715	2177	1041	579
25	1638	2209	1118	548
30	1558	2233	1198	523
35	1476	2251	1280	506
40	1393	2261	1363	495
45	1309	2264	1447	492
50	1225	2259	1531	497
55	1142	2248	1614	508
60	1060	2229	1696	527
65	980	2203	1777	553
70	902	2170	1855	586
75	827	2131	1929	625
80	756	2085	2001	671
85	689	2033	2068	723
90	628	1976	2130	780
95	569	1914	2187	842
100	517	1847	2239	910
105	472	1776	2285	981
110	432	1701	2324	1056
115	399	1623	2357	1133
120	373	1543	2383	1214
125	355	1460	2402	1296
130	343	1377	2413	1379
135	339	1293	2418	1463
140	341	1209	2415	1547
145	352	1126	2405	1630
150	369	1044	2387	1712
155	394	964	2362	1792
160	425	887	2331	1869
165	463	813	2293	1943
170	508	742	2248	2014
175	559	676	2198	2080
180	615	615	2142	2142
Max	1988	2264	2418	2142

All units in kg

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**Calculation of reaction forces of
the outriggers for model URW295C
with fully extended outriggers**

**Working radius 2900mm
Rated load 1380kg
Number of booms 1+2+3**



Angle	OR1	OR2	OR3	OR4
0	1595	1595	192	192
5	1532	1653	256	134
10	1463	1705	324	82
15	1391	1751	397	36
20	1311	1794	470	0
25	1199	1859	517	0
30	1091	1910	575	0
35	988	1946	641	0
40	892	1967	716	0
45	802	1973	800	0
50	720	1964	891	0
55	646	1940	989	0
60	581	1901	1093	0
65	524	1848	1203	0
70	474	1784	1313	4
75	397	1743	1391	44
80	323	1696	1464	92
85	254	1642	1533	145
90	190	1583	1598	204
95	131	1519	1657	269
100	77	1450	1710	338
105	30	1376	1757	411
110	0	1288	1809	478
115	0	1174	1876	524
120	0	1064	1930	581
125	0	960	1969	646
130	0	862	1993	720
135	0	771	2002	802
140	0	687	1996	892
145	0	612	1975	988
150	0	546	1939	1091
155	0	489	1888	1199
160	0	441	1823	1311
165	22	382	1766	1405
170	68	310	1720	1478
175	120	241	1668	1546
180	178	178	1610	1610
Max	1595	1973	2002	1610

All units in kg

URW-A295CR POINT LOADINGS

**Calculation of reaction forces of
the outriggers for model URW295C
with fully extended outriggers**

**Working radius 3800mm
Rated load 880kg
Number of booms 1+2+3+4**



Angle	OR1	OR2	OR3	OR4
0	1366	1366	109	109
5	1311	1417	164	58
10	1252	1462	223	13
15	1163	1528	259	0
20	1062	1596	291	0
25	965	1653	332	0
30	872	1696	382	0
35	783	1728	439	0
40	699	1746	504	0
45	622	1751	577	0
50	551	1744	656	0
55	487	1723	741	0
60	430	1689	831	0
65	382	1643	926	0
70	341	1584	1025	0
75	310	1514	1127	0
80	265	1453	1210	22
85	205	1407	1270	68
90	150	1356	1325	119
95	98	1300	1377	175
100	52	1240	1423	235
105	11	1177	1464	298
110	0	1086	1523	341
115	0	987	1581	382
120	0	892	1628	430
125	0	802	1661	487
130	0	717	1682	551
135	0	638	1690	622
140	0	566	1685	699
145	0	501	1666	783
150	0	443	1635	872
155	0	394	1591	965
160	0	353	1535	1062
165	4	316	1471	1159
170	44	253	1431	1222
175	89	194	1386	1281
180	139	139	1336	1336
Max	1366	1751	1690	1366

All units in kg

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**Calculation of reaction forces of
the outriggers for model URW295C
with fully extended outriggers**

**Working radius 8410mm
Rated load 160kg
Number of booms 1+2+3+4+5**



Angle	OR1	OR2	OR3	OR4
0	944	944	81	81
5	909	975	116	50
10	873	1004	152	21
15	830	1032	188	0
20	767	1074	209	0
25	706	1110	234	0
30	648	1137	265	0
35	592	1157	301	0
40	540	1168	342	0
45	492	1171	387	0
50	447	1167	436	0
55	407	1153	489	0
60	372	1132	546	0
65	341	1103	605	0
70	316	1067	667	0
75	295	1024	730	1
80	255	998	770	27
85	218	969	807	56
90	183	937	842	88
95	151	903	874	122
100	122	865	903	160
105	97	825	928	200
110	75	784	950	241
115	56	740	969	285
120	42	695	983	330
125	31	649	994	376
130	25	603	1000	422
135	22	556	1003	469
140	24	509	1001	516
145	30	462	995	563
150	39	417	986	608
155	53	372	972	653
160	71	329	954	696
165	92	287	933	738
170	117	248	908	777
175	145	211	880	814
180	177	177	848	848
Max	944	1171	1003	848

All units in kg