

MAEDA Model MC354C, 355HC Outrigger Reaction Calculation (Dynamic Load: 1.25 Against Static Load)

Conditions: 1. Lifting capacity x Working Radius: 3625kg x 2.25m
 2. Extension of Outriggers: Optimum

Boom Angle (degrees)	A	B	C	D
	Front OR (L) Reaction (kg)	Rear OR (L) Reaction (kg)	Rear OR (R) Reaction (kg)	Front OR (R) Reaction (kg)
0	2440.7	925.3	925.3	2440.7
5	2532.2	924.2	933.0	2242.6
10	2613.5	931.9	946.6	2041.3
15	2681.0	949.2	961.3	1840.5
20	2731.9	978.6	978.2	1643.4
25	2763.1	1020.6	994.9	1453.4
30	2772.2	1076.6	1009.9	1273.3
35	2757.3	1147.0	1022.0	1105.7
40	2718.6	1232.1	1030.6	952.8
45	2649.4	1331.7	1034.7	816.2
50	2555.1	1445.1	1034.6	697.2
55	2433.9	1571.3	1030.2	596.6
60	2288.5	1709.9	1022.1	514.4
65	2114.1	1856.3	1011.1	450.6
70	1918.6	2011.1	998.2	404.2
75	1701.7	2171.0	984.9	374.4
80	1466.6	2333.2	972.7	359.5
85	1216.9	2494.8	963.4	357.8
90	952.3	2659.0	959.2	367.5
95	680.7	2804.8	960.4	386.1
100	402.9	2947.2	970.3	411.6
105	222.7	3077.5	990.3	441.5
110	2043.4	3192.8	1021.3	474.5
115	1866.1	3291.0	1066.0	507.9
120	1699.5	3370.0	1122.3	540.1
125	1540.4	3428.3	1193.6	569.7
130	1392.5	3464.6	1279.2	595.7
135	1257.6	3478.2	1378.9	617.3
140	1136.9	3468.7	1492.2	634.2
145	1031.7	3436.5	1617.4	646.4
150	940.0	3382.0	1756.7	654.3
155	863.0	3307.9	1913.5	658.5
160	804.2	3212.7	2084.0	661.1
165	766.6	3101.0	2271.9	662.5
170	721.1	2974.3	2371.8	664.8
175	696.0	2835.2	2531.0	669.8
180	679.6	2686.4	2686.4	679.6

