

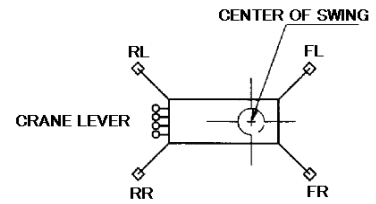
# MC-305C OUTRIGGER REACTION FORCE CALCULATION

WORKING RADIUS 3500 mm

LIFTING LOAD 1650 kg

STAGE 3

EXTENDED OUTRIGGERS MID (MAX, MID, MIN)



| $\theta$ | FR   | FL   | RL   | RR   |
|----------|------|------|------|------|
| 0        | 784  | 784  | 2291 | 2291 |
| 5        | 798  | 776  | 2158 | 2418 |
| 10       | 819  | 772  | 2023 | 2538 |
| 15       | 848  | 769  | 1887 | 2646 |
| 20       | 888  | 768  | 1754 | 2741 |
| 25       | 939  | 765  | 1625 | 2822 |
| 30       | 1002 | 760  | 1504 | 2885 |
| 35       | 1078 | 752  | 1392 | 2929 |
| 40       | 1166 | 740  | 1290 | 2954 |
| 45       | 1268 | 724  | 1200 | 2959 |
| 50       | 1381 | 703  | 1123 | 2944 |
| 55       | 1505 | 679  | 1059 | 2908 |
| 60       | 1639 | 651  | 1007 | 2853 |
| 65       | 1781 | 621  | 969  | 2780 |
| 70       | 1928 | 590  | 943  | 2690 |
| 75       | 2079 | 559  | 927  | 2585 |
| 80       | 2231 | 530  | 922  | 2468 |
| 85       | 2380 | 506  | 925  | 2340 |
| 90       | 2525 | 487  | 934  | 2205 |
| 95       | 2662 | 476  | 948  | 2065 |
| 100      | 2788 | 474  | 965  | 1923 |
| 105      | 2902 | 484  | 984  | 1781 |
| 110      | 2999 | 507  | 1002 | 1643 |
| 115      | 3078 | 544  | 1018 | 1511 |
| 120      | 3138 | 596  | 1031 | 1386 |
| 125      | 3176 | 663  | 1039 | 1272 |
| 130      | 3192 | 747  | 1042 | 1169 |
| 135      | 3186 | 847  | 1040 | 1078 |
| 140      | 3156 | 962  | 1032 | 1001 |
| 145      | 3103 | 1091 | 1018 | 938  |
| 150      | 3029 | 1233 | 999  | 890  |
| 155      | 2935 | 1386 | 976  | 854  |
| 160      | 2821 | 1547 | 950  | 832  |
| 165      | 2691 | 1715 | 923  | 822  |
| 170      | 2547 | 1886 | 895  | 822  |
| 175      | 2392 | 2058 | 870  | 831  |
| 180      | 2228 | 2228 | 848  | 848  |

|                 |             |             |             |             |
|-----------------|-------------|-------------|-------------|-------------|
| <b>MAX (kg)</b> | <b>3192</b> | <b>2228</b> | <b>2291</b> | <b>2959</b> |
|-----------------|-------------|-------------|-------------|-------------|

( k g )