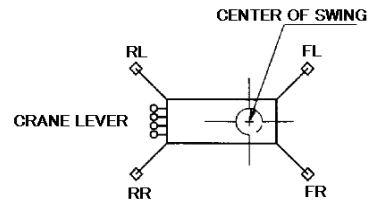


# MC-305C OUTRIGGER REACTION FORCE CALCULATION

WORKING RADIUS 7000 mm  
LIFTING LOAD 580 kg  
STAGE 3



EXTENDED OUTRIGGERS MID (MAX, MID, MIN)

| $\theta$ | FR   | FL   | RL   | RR   |
|----------|------|------|------|------|
| 0        | 427  | 427  | 1979 | 1979 |
| 5        | 379  | 481  | 1796 | 2157 |
| 10       | 338  | 537  | 1613 | 2325 |
| 15       | 310  | 590  | 1432 | 2480 |
| 20       | 297  | 639  | 1260 | 2618 |
| 25       | 300  | 680  | 1098 | 2734 |
| 30       | 324  | 711  | 951  | 2827 |
| 35       | 369  | 730  | 821  | 2894 |
| 40       | 435  | 734  | 711  | 2933 |
| 45       | 524  | 725  | 622  | 2942 |
| 50       | 636  | 700  | 555  | 2923 |
| 55       | 767  | 661  | 510  | 2874 |
| 60       | 919  | 610  | 487  | 2798 |
| 65       | 1086 | 546  | 486  | 2695 |
| 70       | 1267 | 473  | 503  | 2570 |
| 75       | 1459 | 394  | 537  | 2423 |
| 80       | 1656 | 311  | 585  | 2260 |
| 85       | 1855 | 229  | 645  | 2084 |
| 90       | 2052 | 150  | 713  | 1899 |
| 95       | 2241 | 78   | 785  | 1709 |
| 100      | 2419 | 17   | 858  | 1519 |
| 105      | 2580 | (30) | 929  | 1334 |
| 110      | 2721 | (59) | 995  | 1157 |
| 115      | 2839 | (68) | 1051 | 991  |
| 120      | 2930 | (55) | 1097 | 841  |
| 125      | 2992 | (18) | 1130 | 709  |
| 130      | 3023 | 44   | 1148 | 598  |
| 135      | 3022 | 132  | 1151 | 508  |
| 140      | 2989 | 244  | 1138 | 442  |
| 145      | 2924 | 381  | 1110 | 398  |
| 150      | 2829 | 539  | 1068 | 378  |
| 155      | 2705 | 717  | 1012 | 379  |
| 160      | 2555 | 912  | 946  | 400  |
| 165      | 2384 | 1119 | 872  | 438  |
| 170      | 2193 | 1335 | 793  | 492  |
| 175      | 1989 | 1555 | 712  | 558  |
| 180      | 1774 | 1774 | 632  | 632  |

|          |      |      |      |      |
|----------|------|------|------|------|
| MAX (kg) | 3023 | 1774 | 1979 | 2942 |
|----------|------|------|------|------|

(kg)