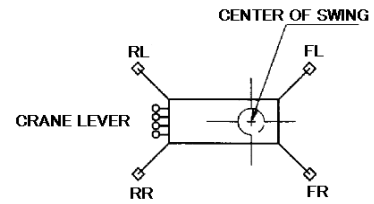


# MC-305C OUTRIGGER REACTION FORCE CALCULATION

WORKING RADIUS 5000 mm  
 LIFTING LOAD 830 kg  
 STAGE 4  
 EXTENDED OUTRIGGERS MAX (MAX, MID, MIN)



| $\theta$ | FR   | FL   | RL   | RR   |
|----------|------|------|------|------|
| 0        | 650  | 650  | 1917 | 1917 |
| 5        | 647  | 657  | 1807 | 2023 |
| 10       | 650  | 667  | 1696 | 2122 |
| 15       | 660  | 677  | 1585 | 2212 |
| 20       | 678  | 687  | 1477 | 2292 |
| 25       | 707  | 695  | 1373 | 2359 |
| 30       | 745  | 701  | 1276 | 2412 |
| 35       | 795  | 702  | 1188 | 2450 |
| 40       | 856  | 698  | 1109 | 2471 |
| 45       | 928  | 690  | 1040 | 2475 |
| 50       | 1012 | 677  | 983  | 2463 |
| 55       | 1105 | 658  | 937  | 2433 |
| 60       | 1208 | 636  | 903  | 2388 |
| 65       | 1318 | 610  | 880  | 2327 |
| 70       | 1434 | 581  | 867  | 2252 |
| 75       | 1554 | 552  | 864  | 2165 |
| 80       | 1675 | 523  | 869  | 2067 |
| 85       | 1796 | 496  | 880  | 1962 |
| 90       | 1914 | 473  | 897  | 1850 |
| 95       | 2026 | 455  | 918  | 1735 |
| 100      | 2131 | 445  | 940  | 1618 |
| 105      | 2225 | 443  | 963  | 1503 |
| 110      | 2307 | 451  | 985  | 1391 |
| 115      | 2375 | 471  | 1004 | 1284 |
| 120      | 2427 | 503  | 1019 | 1185 |
| 125      | 2462 | 548  | 1029 | 1095 |
| 130      | 2479 | 607  | 1034 | 1015 |
| 135      | 2477 | 678  | 1033 | 946  |
| 140      | 2457 | 762  | 1026 | 889  |
| 145      | 2418 | 859  | 1013 | 844  |
| 150      | 2362 | 966  | 994  | 812  |
| 155      | 2289 | 1082 | 971  | 791  |
| 160      | 2201 | 1207 | 945  | 781  |
| 165      | 2100 | 1337 | 916  | 782  |
| 170      | 1987 | 1470 | 886  | 791  |
| 175      | 1865 | 1604 | 857  | 808  |
| 180      | 1737 | 1737 | 830  | 830  |

|                 |             |             |             |             |
|-----------------|-------------|-------------|-------------|-------------|
| <b>MAX (kg)</b> | <b>2479</b> | <b>1737</b> | <b>1917</b> | <b>2475</b> |
|-----------------|-------------|-------------|-------------|-------------|

(k g)