

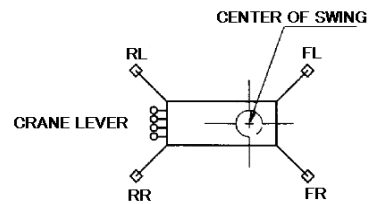
# MC-305C OUTRIGGER REACTION FORCE CALCULATION

WORKING RADIUS 3500 mm

LIFTING LOAD 1650 kg

STAGE 3

EXTENDED OUTRIGGERS **MAX** (MAX, MID, MIN)



| $\theta$ | FR   | FL   | RL   | RR   |
|----------|------|------|------|------|
| 0        | 820  | 820  | 2260 | 2260 |
| 5        | 836  | 810  | 2141 | 2373 |
| 10       | 858  | 804  | 2020 | 2479 |
| 15       | 887  | 800  | 1898 | 2576 |
| 20       | 926  | 797  | 1778 | 2660 |
| 25       | 975  | 793  | 1662 | 2731 |
| 30       | 1034 | 789  | 1552 | 2787 |
| 35       | 1104 | 782  | 1449 | 2826 |
| 40       | 1185 | 773  | 1355 | 2848 |
| 45       | 1277 | 761  | 1271 | 2851 |
| 50       | 1380 | 746  | 1198 | 2837 |
| 55       | 1492 | 728  | 1136 | 2805 |
| 60       | 1612 | 708  | 1085 | 2756 |
| 65       | 1738 | 686  | 1045 | 2690 |
| 70       | 1870 | 664  | 1016 | 2610 |
| 75       | 2004 | 643  | 997  | 2517 |
| 80       | 2139 | 624  | 986  | 2412 |
| 85       | 2271 | 609  | 983  | 2298 |
| 90       | 2400 | 599  | 986  | 2176 |
| 95       | 2521 | 596  | 993  | 2051 |
| 100      | 2633 | 601  | 1003 | 1923 |
| 105      | 2734 | 616  | 1015 | 1796 |
| 110      | 2821 | 642  | 1027 | 1671 |
| 115      | 2892 | 680  | 1037 | 1551 |
| 120      | 2946 | 731  | 1046 | 1437 |
| 125      | 2982 | 796  | 1051 | 1332 |
| 130      | 2998 | 873  | 1052 | 1237 |
| 135      | 2995 | 964  | 1049 | 1153 |
| 140      | 2971 | 1068 | 1042 | 1080 |
| 145      | 2928 | 1184 | 1030 | 1019 |
| 150      | 2865 | 1309 | 1015 | 971  |
| 155      | 2785 | 1444 | 997  | 934  |
| 160      | 2689 | 1586 | 977  | 909  |
| 165      | 2577 | 1733 | 956  | 895  |
| 170      | 2454 | 1882 | 935  | 889  |
| 175      | 2320 | 2032 | 917  | 892  |
| 180      | 2178 | 2178 | 902  | 902  |

|                 |             |             |             |             |
|-----------------|-------------|-------------|-------------|-------------|
| <b>MAX (kg)</b> | <b>2998</b> | <b>2178</b> | <b>2260</b> | <b>2851</b> |
|-----------------|-------------|-------------|-------------|-------------|

(kg)