

# MC-405C OUTRIGGER REACTION FORCE CALCULATION

(静、動荷重係数考慮)

WORKING RADIUS 12000 mm  
LIFTING LOAD 400 kg  
STAGE 4  
EXTENDED OUTRIGGERS MID

| $\theta$ | FR   | FL    | RL   | RR   |
|----------|------|-------|------|------|
| 0        | 567  | 567   | 2932 | 2932 |
| 5        | 459  | 683   | 2595 | 3260 |
| 10       | 365  | 802   | 2258 | 3573 |
| 15       | 291  | 916   | 1929 | 3861 |
| 20       | 243  | 1020  | 1617 | 4117 |
| 25       | 225  | 1109  | 1327 | 4335 |
| 30       | 242  | 1179  | 1068 | 4509 |
| 35       | 295  | 1226  | 843  | 4633 |
| 40       | 388  | 1247  | 656  | 4705 |
| 45       | 520  | 1241  | 512  | 4723 |
| 50       | 692  | 1207  | 412  | 4686 |
| 55       | 901  | 1147  | 354  | 4595 |
| 60       | 1144 | 1061  | 340  | 4452 |
| 65       | 1418 | 953   | 366  | 4260 |
| 70       | 1717 | 827   | 429  | 4025 |
| 75       | 2035 | 687   | 524  | 3751 |
| 80       | 2365 | 540   | 645  | 3447 |
| 85       | 2700 | 390   | 788  | 3119 |
| 90       | 3033 | 244   | 944  | 2776 |
| 95       | 3354 | 109   | 1107 | 2426 |
| 100      | 3658 | (9)   | 1270 | 2078 |
| 105      | 3935 | (104) | 1427 | 1739 |
| 110      | 4180 | (171) | 1570 | 1418 |
| 115      | 4386 | (204) | 1694 | 1121 |
| 120      | 4547 | (199) | 1793 | 856  |
| 125      | 4660 | (154) | 1865 | 626  |
| 130      | 4721 | (67)  | 1905 | 438  |
| 135      | 4728 | 64    | 1912 | 293  |
| 140      | 4681 | 237   | 1886 | 193  |
| 145      | 4581 | 451   | 1827 | 138  |
| 150      | 4429 | 703   | 1737 | 128  |
| 155      | 4230 | 989   | 1619 | 160  |
| 160      | 3987 | 1303  | 1477 | 230  |
| 165      | 3707 | 1639  | 1317 | 334  |
| 170      | 3396 | 1991  | 1145 | 466  |
| 175      | 3061 | 2350  | 966  | 620  |
| 180      | 2710 | 2710  | 789  | 789  |

|                 |             |             |             |             |
|-----------------|-------------|-------------|-------------|-------------|
| <b>MAX (kg)</b> | <b>4728</b> | <b>2710</b> | <b>2932</b> | <b>4723</b> |
|-----------------|-------------|-------------|-------------|-------------|

(unit:kgf)