

# MC-285C OUTRIGGER REACTION FORCE CALCULATION

WORKING RADIUS 8205 mm  
 LIFTING LOAD 130 kg  
 STAGE 5  
 EXTENDED OUTRIGGERS MAX



| $\theta$ | FR   | FL  | RL  | RR   |
|----------|------|-----|-----|------|
| 0        | 272  | 272 | 786 | 786  |
| 5        | 242  | 304 | 695 | 875  |
| 10       | 215  | 337 | 604 | 960  |
| 15       | 193  | 368 | 516 | 1038 |
| 20       | 177  | 397 | 433 | 1109 |
| 25       | 169  | 422 | 356 | 1169 |
| 30       | 169  | 442 | 287 | 1217 |
| 35       | 179  | 456 | 228 | 1253 |
| 40       | 198  | 464 | 179 | 1275 |
| 45       | 227  | 464 | 142 | 1282 |
| 50       | 265  | 458 | 117 | 1275 |
| 55       | 314  | 444 | 104 | 1254 |
| 60       | 370  | 425 | 103 | 1218 |
| 65       | 435  | 399 | 112 | 1170 |
| 70       | 505  | 369 | 132 | 1110 |
| 75       | 581  | 335 | 160 | 1040 |
| 80       | 660  | 299 | 196 | 961  |
| 85       | 740  | 261 | 237 | 876  |
| 90       | 821  | 225 | 283 | 787  |
| 95       | 899  | 191 | 330 | 697  |
| 100      | 972  | 161 | 377 | 606  |
| 105      | 1040 | 135 | 422 | 518  |
| 110      | 1100 | 117 | 464 | 435  |
| 115      | 1151 | 107 | 500 | 358  |
| 120      | 1191 | 105 | 530 | 289  |
| 125      | 1220 | 113 | 552 | 230  |
| 130      | 1236 | 132 | 566 | 182  |
| 135      | 1240 | 160 | 571 | 145  |
| 140      | 1231 | 199 | 566 | 120  |
| 145      | 1208 | 248 | 553 | 107  |
| 150      | 1174 | 306 | 531 | 105  |
| 155      | 1128 | 372 | 501 | 115  |
| 160      | 1072 | 445 | 465 | 134  |
| 165      | 1007 | 523 | 423 | 162  |
| 170      | 934  | 605 | 378 | 198  |
| 175      | 856  | 690 | 331 | 239  |
| 180      | 774  | 774 | 284 | 284  |

|                 |             |            |            |             |
|-----------------|-------------|------------|------------|-------------|
| <b>MAX (kg)</b> | <b>1240</b> | <b>774</b> | <b>786</b> | <b>1282</b> |
|-----------------|-------------|------------|------------|-------------|

(k g)