



# Maximum Allowable Travel Specifications

## 2250 SERIES 1, 2, 3

Boom No. 44 With Long Reach Top

### Jobsite Travel

2250 SERIES 1 must be equipped with 169,200 Lb. (76 750 kg) counterweight; 2250 SERIES 2 must be equipped with 209,200 Lb. (94 890 kg) crane counterweight and 60,000 Lb. (27 220 kg) carbody counterweight; and 2250 SERIES 3 must be equipped with 249,200 Lb. (113 040 kg) crane counterweight and 120,000 Lb. (54 430 kg) carbody counterweight. Refer to capacity charts for maximum wind speed for various boom lengths and maximum boom length lifted unassisted.

#### 1. Machine Travel With Load

- A. Machine can swing and travel with 360 degree rating.
- B. Grade in any direction must not exceed 1 percent (0.5 degrees). *Travel with 100 percent of rated load prohibited.* Travel restricted to 90 percent of rated capacity with speed not to exceed 0.4 m/s.
- C. Travel surface must be firm, level and uniformly supporting. Capacity charts are based on static conditions; therefore judgment must be used to allow for dynamic effects of traveling with load. Carry load as close to ground as possible. Stabilize load with taglines. Travel slowly and smoothly to avoid shock loading boom and rigging.

#### 2. Machine Travel Without Load

- A. Load blocks and/or hook and weight balls may be suspended beneath lower and upper boom points or tied off to machine. Total combined suspended weight beneath lower and upper boom points must not exceed 7,000 Lb. (3 180 kg).
- B. Machine to travel on a firm and uniformly supporting surface, with crane upperworks in-line with crawlers and travel drive to rear. Travel allowed with 360 degree swing up to 1 percent (0.5 degrees) grade; crane upperworks must be in-line with crawlers and grade when grade exceeds 1 percent. Grade in direction of travel should not exceed 30 percent (16.7 degrees); side-to-side grade must not exceed 2 percent (1.1 degrees) measured at boom hinge pins.
- C. Refer to tables on pages 2 and 3 for boom angle, boom length and direction for various grades. Adjust boom within boom angle range shown in table, with machine in a level position before traveling onto grade. Do not change boom angle after crane has been traveled onto grade. Boom angle is angle between horizontal and centerline of boom butt and inserts. Refer to table below for grade vs. angle when traveling.
- D. Do not exceed 2 percent (1.1 degrees) side-to-side grade at boom hinge pins when cutting (turning on grade).
- E. **Warning:** Travel prohibited for boom lengths not shown in tables on pages 2 and 3. *Crane could tip.*

| Percent Grade Vs. Angle In Degrees |       |
|------------------------------------|-------|
| Percent Grade                      | Angle |
| 1                                  | 0.5   |
| 10                                 | 5.7   |
| 20                                 | 11.3  |
| 30                                 | 16.7  |



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## 2250 SERIES 1, 2, 3

Boom No. 44 With Long Reach Top

| Machine Travel Without Load - Boom Facing Downhill |               |              |               |              |               |              |                                   |
|--|---------------|--------------|---------------|--------------|---------------|--------------|-----------------------------------|
| 0 - 1% Percent Grade                               |               |              |               |              |               |              |                                   |
| Boom Angle<br>Range in<br>Degrees                  | Boom Length   |              |               |              |               |              | Boom Angle<br>Range in<br>Degrees |
|  | 2250 Series 1 |              | 2250 Series 2 |              | 2250 Series 3 |              |                                   |
|  | Feet          | Meters       | Feet          | Meters       | Feet          | Meters       |                                   |
| 30 - 72  | 190 - 240     | 57.9 - 73.2  | 190 - 280     | 57.9 - 85.3  | 190 - 300     | 57.9 - 91.4  | 30 - 72                           |
| 40 - 72  | 250 - 270     | 76.2 - 82.3  | 290 - 300     | 88.4 - 91.4  | 310 - 330     | 94.5 - 100.6 | 40 - 72                           |
| 50 - 72  | 280 - 300     | 85.3 - 91.4  | 310 - 330     | 94.5 - 100.6 | ---           | ---          | 50 - 72                           |
| 60 - 72  | 310 - 330     | 94.5 - 100.6 | ---           | ---          | ---           | ---          | 60 - 72                           |
| 2 - 10% Percent Grade                              |               |              |               |              |               |              |                                   |
| 30 - 72  | 190 - 230     | 57.9 - 70.1  | 190 - 260     | 57.9 - 79.2  | 190 - 290     | 57.9 - 88.4  | 30 - 72                           |
| 40 - 72  | 240 - 250     | 73.2 - 76.2  | 270 - 280     | 82.3 - 85.3  | 300 - 310     | 91.4 - 94.5  | 40 - 72                           |
| 50 - 72  | 260 - 270     | 79.2 - 82.3  | 290 - 300     | 88.4 - 91.4  | 320 - 330     | 97.5 - 100.6 | 50 - 72                           |
| 60 - 72  | 280 - 310     | 85.3 - 94.5  | 310 - 330     | 94.5 - 100.6 | ---           | ---          | 60 - 72                           |
| 65 - 72  | 320 - 330     | 97.5 - 100.6 | ---           | ---          | ---           | ---          | 65 - 72                           |
| 11 - 20% Percent Grade                             |               |              |               |              |               |              |                                   |
| 30 - 72  | 190 - 220     | 57.9 - 67.1  | 190 - 250     | 57.9 - 76.2  | 190 - 270     | 57.9 - 82.3  | 30 - 72                           |
| 40 - 72  | 230           | 70.1         | 260           | 79.2         | 280 - 290     | 85.3 - 88.4  | 40 - 72                           |
| 50 - 72  | 240 - 250     | 73.2 - 76.2  | 270 - 280     | 82.3 - 85.3  | 300 - 310     | 91.4 - 94.5  | 50 - 72                           |
| 60 - 72  | 260 - 270     | 79.2 - 82.3  | 290 - 310     | 88.4 - 94.5  | 320 - 330     | 97.5 - 100.6 | 60 - 72                           |
| 65 - 72  | 280 - 290     | 85.3 - 88.4  | 320 - 330     | 97.5 - 100.6 | ---           | ---          | 65 - 72                           |
| 21 - 30% Percent Grade                             |               |              |               |              |               |              |                                   |
| 30 - 72  | 190 - 200     | 57.9 - 61.0  | 190 - 230     | 57.9 - 70.1  | 190 - 260     | 57.9 - 79.2  | 30 - 72                           |
| 40 - 72  | 210           | 64.0         | 240           | 73.2         | 270           | 82.3         | 40 - 72                           |
| 50 - 72  | 220           | 67.1         | 250 - 260     | 76.2 - 79.2  | 280           | 85.3         | 50 - 72                           |
| 60 - 72  | 230 - 250     | 70.1 - 76.2  | 270 - 280     | 82.3 - 85.3  | 290 - 310     | 88.4 - 94.5  | 60 - 72                           |
| 65 - 72  | 260           | 79.2         | 290 - 300     | 88.4 - 91.4  | 320           | 97.5         | 65 - 72                           |



# Maximum Allowable Travel Specifications

## 2250 SERIES 1, 2, 3

Boom No. 44 With Long Reach Top

| Machine Travel Without Load - Boom Facing Uphill |               |              |               |              |               |              |                                   |
|--|---------------|--------------|---------------|--------------|---------------|--------------|-----------------------------------|
| 0 - 1% Percent Grade                             |               |              |               |              |               |              |                                   |
| Boom Angle<br>Range in<br>Degrees                | Boom Length   |              |               |              |               |              | Boom Angle<br>Range in<br>Degrees |
|  | 2250 Series 1 |              | 2250 Series 2 |              | 2250 Series 3 |              |                                   |
|  | Feet          | Meters       | Feet          | Meters       | Feet          | Meters       |                                   |
| 30 - 72  | 190 - 240     | 57.9 - 73.2  | 190 - 280     | 57.9 - 85.3  | 190 - 300     | 57.9 - 91.4  | 30 - 72                           |
| 40 - 72  | 250 - 270     | 76.2 - 82.3  | 290 - 300     | 88.4 - 91.4  | 310 - 330     | 94.5 - 100.6 | 40 - 72                           |
| 50 - 72  | 280 - 300     | 85.3 - 91.4  | 310 - 330     | 94.5 - 100.6 | ---           | ---          | 50 - 72                           |
| 60 - 72  | 310 - 330     | 94.5 - 100.6 | ---           | ---          | ---           | ---          | 60 - 72                           |
| 2 - 10% Percent Grade                            |               |              |               |              |               |              |                                   |
| 30 - 66  | 190 - 260     | 57.9 - 79.2  | 190 - 290     | 57.9 - 88.4  | 190 - 320     | 57.9 - 97.5  | 30 - 66                           |
| 40 - 66  | 270 - 290     | 82.3 - 88.4  | 300 - 330     | 91.4 - 100.6 | 330           | 100.6        | 40 - 66                           |
| 50 - 66  | 300 - 330     | 91.4 - 100.6 | ---           | ---          | ---           | ---          | 50 - 66                           |
| 11 - 20% Percent Grade                           |               |              |               |              |               |              |                                   |
| 30 - 60  | 190 - 280     | 57.9 - 85.3  | 190 - 310     | 57.9 - 94.5  | 190 - 330     | 57.9 - 100.6 | 30 - 60                           |
| 40 - 60  | 290 - 310     | 88.4 - 94.5  | 320 - 330     | 97.5 - 100.6 | ---           | ---          | 40 - 60                           |
| 50 - 60  | 320 - 330     | 97.5 - 100.6 | ---           | ---          | ---           | ---          | 50 - 60                           |
| 21 - 30% Percent Grade                           |               |              |               |              |               |              |                                   |
| 30 - 45  | ---           | ---          | ---           | ---          | 190           | 57.9         | 30 - 45                           |
| 30 - 55  | 190 - 290     | 57.9 - 88.4  | 190 - 330     | 57.9 - 100.6 | 200 - 330     | 61.0 - 100.6 | 30 - 55                           |
| 40 - 55  | 300 - 330     | 91.4 - 100.6 | ---           | ---          | ---           | ---          | 40 - 55                           |

REFERENCE ONLY