



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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Machine Travel Without Load - Boom Facing Downhill							
0 - 1% Percent Grade							
Boom Angle Range in Degrees	Boom Length						Boom Angle Range in 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

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Machine Travel Without Load - Boom Facing Uphill							
0 - 1% Percent Grade							
Boom Angle Range in Degrees	Boom Length						Boom Angle Range in 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