



Maximum Allowable Travel Specifications

2250 SERIES 1, 2, 3

Boom No. 44 With Heavy Lift Top
Jib No. 132 With 20 Ft. (6 096 mm) Strut

Jobsite Travel

2250 SERIES 1 must be equipped with 169,200 Lb. (76 750 kg) counterweight or 107,100 Lb. (48 580 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 Operator's Manual for maximum wind speed for various boom and jib lengths and capacity charts for maximum boom and jib lengths 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, jib 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 and jib point, or tied off to machine. Total combined suspended weight beneath lower and upper boom points must not exceed 11,000 Lbs. (4 990 kg). Total suspended weight beneath jib point must not exceed 2,000 Lbs. (910 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 thru 6 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. Boom lengths shown in tables on pages 2 thru 5 do not include jib. Boom lengths shown in tables on page 6 include all jib lengths and offset angles. Jib is not to be used with 2250 SERIES 1 equipped with 107,100 Lbs. (48 580 kg) counterweight.
- F. **Warning:** Travel prohibited for boom lengths not shown in tables on pages 2 thru 6. *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					
Boom Angle Range in Degrees	Boom Length (not including jib)				Boom Angle Range in Degrees
	2250 SERIES 1				
	169,200 Lb. (76 750 kg) Counterweight		107,100 Lb. (48 580 kg) Counterweight		
	Feet	Meters	Feet	Meters	
0 - 1% Percent Grade					
30 - 67	70 - 80	21.3 - 24.4	—	—	30 - 67
30 - 72	90 - 200	27.4 - 61.0	70 - 160	21.3 - 48.8	30 - 72
40 - 72	210 - 220	64.0 - 67.1	170 - 180	51.8 - 54.9	40 - 72
50 - 72	230 - 250	70.1 - 76.2	190 - 210	57.9 - 64.0	50 - 72
60 - 72	260 - 300	79.2 - 91.4	220 - 250	67.1 - 76.2	60 - 72
2 - 10% Percent Grade					
30 - 72	70 - 180	21.3 - 54.9	70 - 150	21.3 - 45.7	30 - 72
40 - 72	190 - 200	57.9 - 61.0	160	48.8	40 - 72
50 - 72	210 - 220	64.0 - 67.1	170 - 180	51.8 - 54.9	50 - 72
60 - 72	230 - 260	70.1 - 79.2	190 - 210	57.9 - 64.0	60 - 72
65 - 72	270 - 290	82.3 - 88.4	220 - 230	67.1 - 70.1	65 - 72
11 - 20% Percent Grade					
30 - 72	70 - 170	21.3 - 51.8	70 - 140	21.3 - 42.7	30 - 72
40 - 72	180	54.9	150	45.7	40 - 72
50 - 72	190 - 200	57.9 - 61.0	160	48.8	50 - 72
60 - 72	210 - 230	64.0 - 70.1	170 - 190	51.8 - 57.9	60 - 72
65 - 72	240 - 250	73.2 - 76.2	200	61.0	65 - 72
21 - 30% Percent Grade					
30 - 72	70 - 160	21.3 - 48.8	70 - 130	21.3 - 39.6	30 - 72
40 - 72	170	51.8	140	42.7	40 - 72
50 - 72	180	54.9	150	45.7	50 - 72
60 - 72	190 - 200	57.9 - 61.0	160	48.8	60 - 72
65 - 72	210	64.0	170 - 180	51.8 - 54.9	65 - 72



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Machine Travel Without Load - Boom Facing Downhill					
Boom Angle Range in Degrees	Boom Length (not including jib)				Boom Angle Range in Degrees
	2250 SERIES 2		2250 SERIES 3		
	Feet	Meters	Feet	Meters	
0 - 1% Percent Grade					
30 - 67	70	21.3	70	21.3	30 - 67
30 - 72	80 - 230	24.4 - 70.1	80 - 250	24.4 - 76.2	30 - 72
40 - 72	240 - 260	73.2 - 79.2	260 - 290	79.2 - 88.4	40 - 72
50 - 72	270 - 290	82.3 - 88.4	300	91.4	50 - 72
60 - 72	300	91.4	—	—	60 - 72
2 - 10% Percent Grade					
30 - 72	70 - 210	21.3 - 64.0	70 - 250	21.3 - 76.2	30 - 72
40 - 72	220 - 230	67.1 - 70.1	260	79.2	40 - 72
50 - 72	240 - 260	73.2 - 79.2	270 - 290	82.3 - 88.4	50 - 72
60 - 72	270 - 300	82.3 - 91.4	300	91.4	60 - 72
11 - 20% Percent Grade					
30 - 72	70 - 200	21.3 - 61.0	70 - 220	21.3 - 67.1	30 - 72
40 - 72	210	64.0	230 - 240	70.1 - 73.2	40 - 72
50 - 72	220 - 230	67.1 - 70.1	250 - 260	76.2 - 79.2	50 - 72
60 - 72	240 - 270	73.2 - 82.3	270 - 300	82.3 - 91.4	60 - 72
65 - 72	280 - 290	85.3 - 88.4	—	—	65 - 72
21 - 30% Percent Grade					
30 - 72	70 - 180	21.3 - 54.9	70 - 210	21.3 - 64.0	30 - 72
40 - 72	190	57.9	220	67.1	40 - 72
50 - 72	200 - 210	61.0 - 64.0	230	70.1	50 - 72
60 - 72	220 - 230	67.1 - 70.1	240 - 260	73.2 - 79.2	60 - 72
65 - 72	240 - 250	73.2 - 76.2	270 - 280	82.3 - 85.3	65 - 72



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2250 SERIES 1, 2, 3

Boom No. 44 With Heavy Lift Top
Jib No. 132 With 20 Ft. (6 096 mm) Strut

Machine Travel Without Load - Boom Facing Uphill					
Boom Angle Range in Degrees	Boom Length (not including jib)				Boom Angle Range in Degrees
	2250 SERIES 1				
	169,200 Lb. (76 750 kg) Counterweight		107,100 Lb. (48 580 kg) Counterweight		
	Feet	Meters	Feet	Meters	
0 - 1% Percent Grade					
30 - 67	70 - 80	21.3 - 24.4	—	—	30 - 67
30 - 72	90 - 200	27.4 - 61.0	70 - 160	21.3 - 48.8	30 - 72
40 - 72	210 - 220	64.0 - 67.1	170 - 180	51.8 - 54.9	40 - 72
50 - 72	230 - 250	70.1 - 76.2	190 - 210	57.9 - 64.0	50 - 72
60 - 72	260 - 300	79.2 - 91.4	220 - 250	67.1 - 76.2	60 - 72
2 - 10% Percent Grade					
30 - 66	70 - 210	21.3 - 64.0	70 - 180	21.3 - 54.9	30 - 66
40 - 66	220 - 250	67.1 - 76.2	190	57.9	40 - 66
50 - 66	260 - 290	79.2 - 88.4	200 - 230	61.0 - 70.1	50 - 66
60 - 66	300	91.4	240 - 250	73.2 - 76.2	60 - 66
11 - 20% Percent Grade					
30 - 60	70 - 230	21.3 - 70.1	70 - 190	21.3 - 57.9	30 - 60
40 - 60	240 - 270	73.2 - 82.3	200 - 220	61.0 - 67.1	40 - 60
50 - 60	280 - 300	85.3 - 91.4	230 - 250	70.1 - 76.2	50 - 60
21 - 30% Percent Grade					
30 - 45	—	—	70 - 80	21.3 - 24.4	30 - 45
30 - 55	70 - 250	21.3 - 76.2	90 - 210	27.4 - 64.0	30 - 55
40 - 55	260 - 290	79.2 - 88.4	220 - 250	67.1 - 76.2	40 - 55
50 - 55	300	91.4	—	—	50 - 55

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Machine Travel Without Load - Boom Facing Uphill					
Boom Angle Range in Degrees	Boom Length (not including jib)				Boom Angle Range in Degrees
	2250 SERIES 2		2250 SERIES 3		
	Feet	Meters	Feet	Meters	
0 - 1% Percent Grade					
30 - 67	70	21.3	70	21.3	30 - 67
30 - 72	80 - 230	24.4 - 70.1	80 - 250	24.4 - 76.2	30 - 72
40 - 72	240 - 260	73.2 - 79.2	260 - 290	79.2 - 88.4	40 - 72
50 - 72	270 - 290	82.3 - 88.4	300	91.4	50 - 72
60 - 72	300	91.4	—	—	60 - 72
2 - 10% Percent Grade					
30 - 48	70 - 110	21.3 - 33.5	70 - 110	21.3 - 33.5	30 - 48
30 - 66	120 - 250	36.6 - 76.2	120 - 290	36.6 - 88.4	30 - 66
40 - 66	260 - 280	79.2 - 85.3	300	91.4	40 - 66
50 - 66	290 - 300	88.4 - 91.4	—	—	50 - 66
11 - 20% Percent Grade					
30 - 45	100 - 130	30.5 - 39.6	110 - 140	33.5 - 42.7	30 - 45
30 - 60	140 - 270	42.7 - 82.3	150 - 300	45.7 - 91.4	30 - 60
40 - 60	280 - 300	85.3 - 91.4	—	—	40 - 60
21 - 30% Percent Grade					
30 - 45	130 - 150	39.6 - 45.7	130 - 160	39.6 - 48.8	30 - 45
30 - 55	160 - 290	48.8 - 88.4	170 - 300	51.8 - 91.4	30 - 55
40 - 55	300	91.4	—	—	40 - 55



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Machine Travel Without Load - Boom Facing Downhill							
Boom Angle Range in Degrees	Boom Length (including all jib lengths and offset angles)						Boom Angle Range in Degrees
	2250 SERIES 1		2250 SERIES 2		2250 SERIES 3		
	Feet	Meters	Feet	Meters	Feet	Meters	
0 - 1% Percent Grade							
50 - 72	130 - 190	39.6 - 57.9	130 - 230	39.6 - 70.1	130 - 260	39.6 - 79.2	50 - 72
55 - 72	200 - 210	61.0 - 64.0	240 - 260	73.2 - 79.2	—	—	55 - 72
60 - 72	220 - 260	67.1 - 79.2	—	—	—	—	60 - 72
2 - 10% Percent Grade							
50 - 72	130 - 170	39.6 - 51.8	130 - 200	39.6 - 61.0	130 - 230	39.6 - 70.1	50 - 72
55 - 72	180	54.9	210 - 220	64.0 - 67.1	240 - 260	73.2 - 79.2	55 - 72
60 - 72	190 - 200	57.9 - 61.0	230 - 240	70.1 - 73.2	—	—	60 - 72
65 - 72	210 - 230	64.0 - 70.1	250 - 260	76.2 - 79.2	—	—	65 - 72
11 - 20% Percent Grade							
50 - 72	130 - 150	39.6 - 45.7	130 - 180	39.6 - 54.9	130 - 210	39.6 - 64.0	50 - 72
55 - 72	160	48.8	190 - 200	57.9 - 61.0	220	67.1	55 - 72
60 - 72	170	51.8	210	64.0	230 - 240	70.1 - 73.2	60 - 72
65 - 72	180 - 190	54.9 - 57.9	220 - 230	67.1 - 70.1	250 - 260	76.2 - 79.2	65 - 72
21 - 30% Percent Grade							
50 - 72	130	39.6	130 - 160	39.6 - 48.8	130 - 190	39.6 - 57.9	50 - 72
55 - 72	140	42.7	170	51.8	200	61.0	55 - 72
60 - 72	150	45.7	180	54.9	210	64.0	60 - 72
65 - 72	160	48.8	190	57.9	220 - 240	67.1 - 73.2	65 - 72

Machine Travel Without Load - Boom Facing Uphill							
Boom Angle Range in Degrees	Boom Length (including all jib lengths and offset angles)						Boom Angle Range in Degrees
	2250 SERIES 1		2250 SERIES 2		2250 SERIES 3		
	Feet	Meters	Feet	Meters	Feet	Meters	
0 - 1% Percent Grade							
50 - 72	130 - 190	39.6 - 57.9	130 - 230	39.6 - 70.1	130 - 260	39.6 - 79.2	50 - 72
55 - 72	200 - 210	61.0 - 64.0	240 - 260	73.2 - 79.2	—	—	55 - 72
60 - 72	220 - 260	67.1 - 79.2	—	—	—	—	60 - 72
2 - 10% Percent Grade							
50 - 66	130 - 220	39.6 - 67.1	130 - 260	39.6 - 79.2	130 - 260	39.6 - 79.2	50 - 66
60 - 66	230 - 260	70.1 - 79.2	—	—	—	—	60 - 66
11 - 20% Percent Grade							
50 - 60	130 - 260	39.6 - 79.2	130 - 260	39.6 - 79.2	130 - 260	39.6 - 79.2	50 - 60
21 - 30% Percent Grade							
45 - 50	—	—	—	—	130 - 140	39.6 - 42.7	45 - 50
50 - 55	130 - 260	39.6 - 79.2	130 - 260	39.6 - 79.2	150 - 260	45.7 - 79.2	50 - 55

2250 SERIES 1 must be equipped with 169,200 Lb. (76 750 kg) counterweight when jib is attached.