

Maximum Allowable Travel Specifications

MAX-ER 2000 On 2250

Boom No. 79 With 130 ft (39,6 m) Mast No. 44
Wheeled Counterweight

Jobsite Travel

2250 with MAX-ER 2000 must be equipped with 169,200 lb (76 750 kg) crane counterweight and 60,000 lb (27 220 kg) carbody counterweight; and 0 lb (0 kg) through 462,000 lb (209 560 kg) wheeled counterweight as specified in tables. Refer to capacity charts for maximum wind speed for various boom lengths and maximum boom length lifted unassisted.

1. Machine Travel With Load and Wheeled Counterweight

- A. 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.
- B. **Warning:** For travel with crane upperworks in-line to crawlers, swing brake and swing lock must be free (released).
For travel with crane upperworks 90 degrees to crawlers, wheeled counterweight **must be in the air**, free of ground support. Swing brake and swing lock must be free (released).
- 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.
- D. Machine can swing and travel in normal manner when wheeled counterweight assembly is free of ground support or removed.
- E. Counterweight wheels must be properly positioned before swinging or traveling machine when wheeled counterweight is contacting ground. Refer to Operator's Manual for instructions.

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2. Machine Travel Without Load and With Wheeled Counterweight

- A. Load blocks and/or hook and weight balls may be suspended beneath boom points or tied off to machine. Total combined suspended weight beneath boom points must not exceed 18,000 lb (8 160 kg).
- B. **Travel with crane upperworks in-line to crawlers.** Do not exceed 1 percent (0,5 degrees) grade at boom hinge pins when cutting (steering on grade).
- C. **Warning:** Swing brake and swing lock must be free (released).
- D. Machine to travel on a firm and uniformly supporting surface. Travel may be limited depending upon ground conditions.
- E. For crane upperworks in-line to crawlers, grade in direction of travel must not exceed 8 percent (4,5 degrees). Side-to-side grade must not exceed 1 percent (0,5 degrees) measured at boom hinge pins.
- F. Adjust boom within boom angle range shown in tables on pages 2 thru 15 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.
- G. **Warning:** Change in grade must not exceed 2 percent (1,1 degrees) in 50 ft (15,2 m).
- H. Counterweight wheels must be properly positioned before swinging or traveling machine when wheeled counterweight is contacting ground. Refer to Operator's Manual for instructions.
- I. **Warning:** Travel prohibited for boom lengths not shown in tables on pages 2 thru 15. *Crane could tip.*

Percent Grade vs. Angle In Degrees	
Percent Grade	Angle
1	0,5
3	1,7
5	3,0
8	4,5

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Machine Travel Without Load Boom Facing Downhill		
Boom Angle Range in Degrees	Boom Length	
	0 lb (0 kg) Counterweight	
	Feet	Meters
0 - 1% Grade		
30 - 72	120 - 160	36,6 - 48,8
40 - 72	180	54,9
50 - 72	200	61,0
60 - 72	220	67,1
2 - 5% Grade		
30 - 72	120 - 140	36,6 - 42,7
40 - 72	160	48,8
50 - 72	180	54,9
60 - 72	200 - 220	61,0 - 67,1
6 - 8% Grade		
30 - 72	120	36,6
40 - 72	140	42,7
50 - 72	160	48,8
60 - 72	180	54,9
65 - 72	200	61,0

Machine Travel Without Load Boom Facing Uphill		
Boom Angle Range in Degrees	Boom Length	
	0 lb (0 kg) Counterweight	
	Feet	Meters
0 - 1% Grade		
30 - 72	120 - 160	36,6 - 48,8
40 - 72	180	54,9
50 - 72	200	61,0
60 - 72	220	67,1
2 - 5% Grade		
30 - 72	120 - 160	36,6 - 48,8
40 - 72	180	54,9
50 - 72	200	61,0
60 - 72	220	67,1
6 - 8% Grade		
30 - 72	120 - 140	36,6 - 42,7
40 - 72	160	48,8
50 - 72	180 - 200	54,9 - 61,0
60 - 72	220	67,1

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Machine Travel Without Load - Boom Facing Downhill					
Boom Angle Range in Degrees	Boom Length				Boom Angle Range in Degrees
	30 ft (9,1 m) Position				
	120,000 lb (54 430 kg) Counterweight		240,000 lb (108 860 kg) Counterweight		
	Feet	Meters	Feet	Meters	
0 - 1% Grade					
30 - 72	120 - 220	36,6 - 67,1	120 - 260	36,6 - 79,2	30 - 72
40 - 72	240	73, 2	280	85,3	40 - 72
50 - 72	260	79,2	300 - 320	91,4 - 97,5	50 - 72
2 - 5% Grade					
30 - 72	120 - 200	36,6 - 61,0	120 - 240	36,6 - 73,2	30 - 72
40 - 72	220	67,1	260	79,2	40 - 72
50 - 72	240	73,2	280 - 300	85,3 - 91,4	50 - 72
60 - 72	260	79,2	320	97,5	60 - 72
6 - 8% Grade					
30 - 72	120	36,6	120 - 160	36,6 - 48,8	30 - 72
40 - 72	140	42,7	180	54,9	40 - 72
50 - 72	160	48,8	200	61,0	50 - 72
60 - 72	180	54,9	220 - 240	67,1 - 73,2	60 - 72
65 - 72	200	61,0	260	79,2	65 - 72

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Wheeled Counterweight

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Machine Travel Without Load - Boom Facing Downhill					
Boom Angle Range in Degrees	Boom Length				Boom Angle Range in Degrees
	30 ft (9,1 m) Position				
	362,000 lb (164 200 kg) Counterweight		462,000 lb (209 560 kg) Counterweight		
	Feet	Meters	Feet	Meters	
0 - 1% Grade					
30 - 72	120 - 300	36,6 - 91,4	120 - 340	36,6 - 103,6	30 - 72
40 - 72	320	97,5	360	109,7	40 - 72
50 - 72	340 - 360	103,6 - 109,7	—	—	50 - 72
2 - 5% Grade					
30 - 72	120 - 280	36,6 - 85,3	120 - 320	36,6 - 97,5	30 - 72
40 - 72	300 - 320	91,4 - 97,5	340	103,6	40 - 72
50 - 72	340	103,6	360	109,7	50 - 72
60 - 72	360	109,7	—	—	60 - 72
6 - 8% Grade					
30 - 72	120 - 200	36,6 - 61,0	120 - 220	36,6 - 67,1	30 - 72
40 - 72	220	67,1	240 - 260	73,2 - 79,2	40 - 72
50 - 72	240	73,2	280	85,3	50 - 72
60 - 72	260 - 280	79,2 - 85,3	300 - 320	91,4 - 97,5	60 - 72
65 - 72	300	91,4	—	—	65 - 72

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Machine Travel Without Load - Boom Facing Uphill					
Boom Angle Range in Degrees	Boom Length				Boom Angle Range in Degrees
	30 ft (9,1 m) Position				
	120,000 lb (54 430 kg) Counterweight		240,000 lb (108 860 kg) Counterweight		
	Feet	Meters	Feet	Meters	
0 - 1% Grade					
30 - 72	120 - 220	36,6 - 67,1	120 - 260	36,6 - 79,2	30 - 72
40 - 72	240	73, 2	280	85,3	40 - 72
50 - 72	260	79,2	300 - 320	91,4 - 97,5	50 - 72
2 - 5% Grade					
30 - 72	120 - 220	36,6 - 67,1	120 - 260	36,6 - 79,2	30 - 72
40 - 72	240	73,2	280 - 300	85,3 - 91,4	40 - 72
50 - 72	260	79,2	320	97,5	50 - 72
6 - 8% Grade					
30 - 72	120 - 140	36,6 - 42,7	120 - 200	36,6 - 61,0	30 - 72
40 - 72	160	48,8	220	67,1	40 - 72
50 - 72	180 - 200	54,9 - 61,0	240 - 260	73,2 - 79,2	50 - 72
60 - 72	220 - 260	67,1 - 79,2	280 - 320	85,3 - 97,5	60 - 72

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Machine Travel Without Load - Boom Facing Uphill					
Boom Angle Range in Degrees	Boom Length				Boom Angle Range in Degrees
	30 ft (9,1 m) Position				
	362,000 lb (164 200 kg) Counterweight		462,000 lb (209 560 kg) Counterweight		
	Feet	Meters	Feet	Meters	
0 - 1% Grade					
30 - 72	120 - 300	36,6 - 91,4	120 - 340	36,6 - 103,6	30 - 72
40 - 72	320	97,5	360	109,7	40 - 72
50 - 72	340 - 360	103,6 - 109,7	—	—	50 - 72
2 - 5% Grade					
30 - 72	120 - 320	36,6 - 97,5	120 - 340	36,6 - 103,6	30 - 72
40 - 72	340	103,6	360	109,7	40 - 72
50 - 72	360	109,7	—	—	50 - 72
6 - 8% Grade					
30 - 72	120 - 240	36,6 - 73,2	120 - 260	36,6 - 79,2	30 - 72
40 - 72	260	79,2	280 - 300	85,3 - 91,4	40 - 72
50 - 72	280 - 300	85,3 - 91,4	320 - 340	97,5 - 103,6	50 - 72
60 - 72	320 - 360	97,5 - 109,7	360	109,7	60 - 72

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Machine Travel Without Load - Boom Facing Downhill					
Boom Angle Range in Degrees	Boom Length				Boom Angle Range in Degrees
	40 ft (12,2 m) Position				
	120,000 lb (54 430 kg) Counterweight		240,000 lb (108 860 kg) Counterweight		
	Feet	Meters	Feet	Meters	
0 - 1% Grade					
30 - 72	120 - 220	36,6 - 67,1	120 - 280	36,6 - 85,3	30 - 72
40 - 72	240	73,2	300	91,4	40 - 72
50 - 72	260 - 280	79,2 - 85,3	320 - 340	97,5 - 103,6	50 - 72
2 - 5% Grade					
30 - 72	120 - 220	36,6 - 67,1	120 - 260	36,6 - 79,2	30 - 72
40 - 72	240	73,2	280 - 300	85,3 - 91,4	40 - 72
50 - 72	260	79,2	320	97,5	50 - 72
60 - 72	280	85,3	340	103,6	60 - 72
6 - 8% Grade					
30 - 72	120 - 140	36,6 - 42,7	120 - 200	36,6 - 61,0	30 - 72
40 - 72	160	48,8	220	67,1	40 - 72
50 - 72	180	54,9	240	73,2	50 - 72
60 - 72	200	61,0	260 - 280	79,2 - 85,3	60 - 72
65 - 72	220	67,1	300	91,4	65 - 72

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	40 ft (12,2 m) Position				
	362,000 lb (164 200 kg) Counterweight		462,000 lb (209 560 kg) Counterweight		
	Feet	Meters	Feet	Meters	
0 - 1% Grade					
30 - 72	120 - 340	36,6 - 103,6	120 - 360	36,6 - 109,7	30 - 72
40 - 72	360	109,7	—	—	40 - 72
2 - 5% Grade					
30 - 72	120 - 320	36,6 - 97,5	120 - 360	36,6 - 109,7	30 - 72
40 - 72	340	103,6	—	—	40 - 72
50 - 72	360	109,7	—	—	50 - 72
60 - 72	—	—	—	—	60 - 72
6 - 8% Grade					
30 - 72	120 - 240	36,6 - 73,2	120 - 280	36,6 - 85,3	30 - 72
40 - 72	260	79,2	300	91,4	40 - 72
50 - 72	280	85,3	320	97,5	50 - 72
60 - 72	300 - 320	91,4 - 97,5	340	103,6	60 - 72
65 - 72	340	103,6	—	—	65 - 72

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Machine Travel Without Load - Boom Facing Uphill					
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	40 ft (12,2 m) Position				
	120,000 lb (54 430 kg) Counterweight		240,000 lb (108 860 kg) Counterweight		
	Feet	Meters	Feet	Meters	
0 - 1% Grade					
30 - 72	120 - 220	36,6 - 67,1	120 - 280	36,6 - 85,3	30 - 72
40 - 72	240	73,2	300	91,4	40 - 72
50 - 72	260 - 280	79,2 - 85,3	320 - 340	97,5 - 103,6	50 - 72
2 - 5% Grade					
30 - 72	120 - 240	36,6 - 73,2	120 - 300	36,6 - 91,4	30 - 72
40 - 72	260	79,2	320	97,5	40 - 72
50 - 72	280	85,3	340	103,6	50 - 72
6 - 8% Grade					
30 - 72	120 - 180	36,6 - 54,9	120 - 220	36,6 - 67,1	30 - 72
40 - 72	200	61,0	240 - 260	73,2 - 79,2	40 - 72
50 - 72	220	67,1	280 - 300	85,3 - 91,4	50 - 72
60 - 72	240 - 280	73,2 - 85,3	320 - 340	97,5 - 103,6	60 - 72

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	Feet	Meters	Feet	Meters	
0 - 1% Grade					
30 - 72	120 - 340	36,6 - 103,6	120 - 360	36,6 - 109,7	30 - 72
40 - 72	360	109,7	—	—	40 - 72
2 - 5% Grade					
30 - 72	120 - 340	36,6 - 103,6	120 - 360	36,6 - 109,7	30 - 72
40 - 72	360	109,7	—	—	40 - 72
6 - 8% Grade					
30 - 72	120 - 280	36,6 - 85,3	120 - 320	36,6 - 97,5	30 - 72
40 - 72	300	91,4	340	103,6	40 - 72
50 - 72	320 - 340	97,5 - 103,6	360	109,7	50 - 72
60 - 72	360	109,7	—	—	60 - 72

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Machine Travel Without Load - Boom Facing Downhill					
Boom Angle Range in Degrees	Boom Length				Boom Angle Range in Degrees
	50 ft (15,2 m) Position				
	120,000 lb (54 430 kg) Counterweight		240,000 lb (108 860 kg) Counterweight		
	Feet	Meters	Feet	Meters	
0 - 1% Grade					
30 - 72	120 - 240	36,6 - 73,2	120 - 300	36,6 - 91,4	30 - 72
40 - 72	260	79,2	320 - 340	97,5 - 103,6	40 - 72
50 - 72	280 - 300	85,3 - 91,4	360	109,7	50 - 72
2 - 5% Grade					
30 - 72	120 - 220	36,6 - 67,1	120 - 300	36,6 - 91,4	30 - 72
40 - 72	240	73,2	320	97,5	40 - 72
50 - 72	260 - 280	79,2 - 85,3	340	103,6	50 - 72
60 - 72	300	91,4	360	109,7	60 - 72
6 - 8% Grade					
30 - 72	120 - 160	36,6 - 48,8	120 - 220	36,6 - 67,1	30 - 72
40 - 72	180	54,9	240	73,2	40 - 72
50 - 72	200	61,0	260	79,2	50 - 72
60 - 72	220	67,1	280 - 300	85,3 - 91,4	60 - 72
65 - 72	240	73,2	320 - 340	97,5 - 103,6	65 - 72

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	50 ft (15,2 m) Position				
	362,000 lb (164 200 kg) Counterweight		462,000 lb (209 560 kg) Counterweight		
	Feet	Meters	Feet	Meters	
0 - 1% Grade					
30 - 72	120 - 360	36,6 - 109,7	120 - 360	36,6 - 109,7	30 - 72
2 - 5% Grade					
30 - 72	120 - 340	36,6 - 103,6	120 - 360	36,6 - 109,7	30 - 72
40 - 72	360	109,7	—	—	40 - 72
6 - 8% Grade					
30 - 72	120 - 280	36,6 - 85,3	120 - 320	36,6 - 97,5	30 - 72
40 - 72	300	91,4	340	103,6	40 - 72
50 - 72	320	97,5	360	109,7	50 - 72
60 - 72	340 - 360	103,6 - 109,7	—	—	60 - 72

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Machine Travel Without Load - Boom Facing Uphill					
Boom Angle Range in Degrees	Boom Length				Boom Angle Range in Degrees
	50 ft (15,2 m) Position				
	120,000 lb (54 430 kg) Counterweight		240,000 lb (108 860 kg) Counterweight		
	Feet	Meters	Feet	Meters	
0 - 1% Grade					
30 - 72	120 - 240	36,6 - 73,2	120 - 300	36,6 - 91,4	30 - 72
40 - 72	260	79,2	320 - 340	97,5 - 103,6	40 - 72
50 - 72	280 - 300	85,3 - 91,4	360	109,7	50 - 72
2 - 5% Grade					
30 - 65	120	36,6	120	36,6	30 - 65
30 - 72	140 - 240	42,7 - 73,2	140 - 320	42,7 - 97,5	30 - 72
40 - 72	260 - 280	79,2 - 85,3	340	103,6	40 - 72
50 - 72	300	91,4	360	109,7	50 - 72
6 - 8% Grade					
30 - 65	120 - 160	36,6 - 48,8	120 - 160	36,6 - 48,8	30 - 65
30 - 72	180	54,9	180 - 260	54,9 - 79,2	30 - 72
40 - 72	200	61,0	280	85,3	40 - 72
50 - 72	220 - 240	67,1 - 73,2	300 - 340	91,4 - 103,6	50 - 72
60 - 72	260 - 300	79,2 - 91,4	—	—	60 - 72

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Boom Angle Range in Degrees	Boom Length				Boom Angle Range in Degrees
	50 ft (15,2 m) Position				
	362,000 lb (164 200 kg) Counterweight		462,000 lb (209 560 kg) Counterweight		
	Feet	Meters	Feet	Meters	
0 - 1% Grade					
30 - 72	120 - 360	36,6 - 109,7	120 - 360	36,6 - 109,7	30 - 72
2 - 5% Grade					
30 - 65	120	36,6	—	—	30 - 65
30 - 72	140 - 360	42,7 - 109,7	120 - 360	36,6 - 109,7	30 - 72
6 - 8% Grade					
30 - 65	120 - 160	36,6 - 48,8	120 - 160	36,6 - 48,8	30 - 65
30 - 72	180 - 320	54,9 - 97,5	180 - 360	54,9 - 109,7	30 - 72
40 - 72	340	103,6	—	—	40 - 72
50 - 72	360	109,7	—	—	50 - 72