

Maximum Allowable Travel Specifications

MAX-ER 2000 On 2250

Fixed Jib No. 44 With 20 Degree Offset On
Boom No. 79 With 130 Ft. (39.6m) 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 240,000 Lb. (108 860 kg) or 462,000 Lb. (209 560 kg) wheeled counterweight as specified in tables. Refer to Operator's Manual for maximum wind speed for various boom and jib lengths. Refer to capacity charts for maximum boom and jib lengths 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, jib 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 and fixed jib points or tied off to machine. Total combined suspended weight beneath boom and fixed jib points must not exceed 10,000 Lb. (4 540 kg).
- B. **Travel with crane upperworks in-line to crawlers.** Do not exceed 1 percent (0.5 degrees) side-to-side grade measured at boom hinge pins when cutting (steering on grade).
- C. **Warning:** Swing brake and swing lock must be free (released).
- D. Machine to swing and travel without load 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 3 thru 5 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. (15.2m).
- 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 3 thru 5. *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 (includes all fixed jib lengths)				Boom Angle Range in Degrees
	30 Ft. (9.1m) Position				
	240,000 Lb. (108 860 kg) Wheeled Counterweight		462,000 Lb. (209 560 kg) Wheeled Counterweight		
	Feet	Meters	Feet	Meters	
0 - 1% Grade					
40 - 72	140 - 160	42.7 - 48.8	—	—	40 - 72
50 - 72			140 - 220	42.7 - 67.1	50 - 72
2 - 5% Grade					
50 - 72	140 - 160	42.7 - 48.8	140 - 220	42.7 - 67.1	50 - 72
6 - 8% Grade					
Not Allowed			Not Allowed		

Machine Travel Without Load - Boom Facing Uphill					
Boom Angle Range in Degrees	Boom Length (includes all fixed jib lengths)				Boom Angle Range in Degrees
	30 Ft. (9.1m) Position				
	240,000 Lb. (108 860 kg) Wheeled Counterweight		462,000 Lb. (209 560 kg) Wheeled Counterweight		
	Feet	Meters	Feet	Meters	
0 - 1% Grade					
40 - 72	140 - 160	42.7 - 48.8	—	—	40 - 72
50 - 72			140 - 220	42.7 - 67.1	50 - 72
2 - 5% Grade					
40 - 72	140 - 160	42.7 - 48.8	—	—	40 - 72
50 - 72			140 - 220	42.7 - 67.1	50 - 72
6 - 8% Grade					
60 - 72	140 - 160	42.7 - 48.8	140 - 220	42.7 - 67.1	60 - 72

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Machine Travel Without Load - Boom Facing Downhill					
Boom Angle Range in Degrees	Boom Length (includes all fixed jib lengths)				Boom Angle Range in Degrees
	40 Ft. (12.2m) Position				
	240,000 Lb. (108 860 kg) Wheeled Counterweight		462,000 Lb. (209 560 kg) Wheeled Counterweight		
	Feet	Meters	Feet	Meters	
0 - 1% Grade					
40 - 72	140 - 180	42.7 - 54.9	140	42.7	40 - 72
50 - 72			160 - 240	48.8 - 73.2	50 - 72
2 - 5% Grade					
40 - 72	—	—	140	42.7	40 - 72
50 - 72	140 - 180	42.7 - 54.9	160 - 240	48.8 - 73.2	50 - 72
6 - 8% Grade					
60 - 72	Not Allowed		140	42.7	60 - 72
65 - 72			160 - 240	48.8 - 73.2	65 - 72

Machine Travel Without Load - Boom Facing Uphill					
Boom Angle Range in Degrees	Boom Length (includes all fixed jib lengths)				Boom Angle Range in Degrees
	40 Ft. (12.2m) Position				
	240,000 Lb. (108 860 kg) Wheeled Counterweight		462,000 Lb. (209 560 kg) Wheeled Counterweight		
	Feet	Meters	Feet	Meters	
0 - 1% Grade					
40 - 72	140 - 180	42.7 - 54.9	140	42.7	40 - 72
50 - 72			160 - 240	48.8 - 73.2	50 - 72
2 - 5% Grade					
40 - 72	140 - 180	42.7 - 54.9	140	42.7	40 - 72
50 - 72			160 - 240	48.8 - 73.2	50 - 72
6 - 8% Grade					
50 - 72	—	—	140 - 180	42.7 - 54.9	50 - 72
60 - 72	140 - 180	42.7 - 54.9	200 - 240	61.0 - 73.2	60 - 72

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Machine Travel Without Load - Boom Facing Downhill					
Boom Angle Range in Degrees	Boom Length (includes all fixed jib lengths)				Boom Angle Range in Degrees
	50 Ft. (15.2m) Position				
	240,000 Lb. (108 860 kg) Wheeled Counterweight		462,000 Lb. (209 560 kg) Wheeled Counterweight		
	Feet	Meters	Feet	Meters	
0 - 1% Grade					
30 - 72	—	—	140	42.7	30 - 72
40 - 72	140 - 200	42.7 - 61.0	160 - 260	48.8 - 79.2	40 - 72
2 - 5% Grade					
30 - 72	—	—	140	42.7	30 - 72
40 - 72	—	—	160 - 260	48.8 - 79.2	40 - 72
50 - 72	140 - 200	42.7 - 61.0			50 - 72
6 - 8% Grade					
50 - 72	—	—	140	42.7	50 - 72
60 - 72	—	—	160 - 260	48.8 - 79.2	60 - 72
65 - 72	140 - 200	42.7 - 61.0			65 - 72

Machine Travel Without Load - Boom Facing Uphill					
Boom Angle Range in Degrees	Boom Length (includes all fixed jib lengths)				Boom Angle Range in Degrees
	50 Ft. (15.2m) Position				
	240,000 Lb. (108 860 kg) Wheeled Counterweight		462,000 Lb. (209 560 kg) Wheeled Counterweight		
	Feet	Meters	Feet	Meters	
0 - 1% Grade					
30 - 72	—	—	140	42.7	30 - 72
40 - 72	140 - 200	42.7 - 61.0	160 - 260	48.8 - 79.2	40 - 72
2 - 5% Grade					
30 - 72	—	—	140	42.7	30 - 72
40 - 72	140 - 200	42.7 - 61.0	160 - 260	48.8 - 79.2	40 - 72
6 - 8% Grade					
30 - 72	—	—	140	42.7	30 - 72
40 - 72	—	—	160 - 180	48.8 - 51.8	40 - 72
50 - 72	—	—	200 - 260	61.0 - 79.2	50 - 72
65 - 72	140 - 200	42.7 - 61.0			65 - 72