

Maximum Allowable Travel Specifications

555 SERIES 1, 2

Boom No. 84 With Open Throat Top
Jib No. 134 With 12 Ft. 6 in. (3 810 mm) Strut

Jobsite Travel

555 SERIES 1 must be equipped with 71,500 Lb. (32 430 kg) counterweight and 555 SERIES 2 must be equipped with 98,500 Lb. (44 680 kg) crane counterweight and 44,000 Lb. (19 960 kg) carbody counterweight.

1. Machine Travel With Load

- A. Travel with crane upperworks in-line with crawlers. Grade in any direction must not exceed 1 percent (0.5 degrees).
- B. 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 boom point, upper boom point and jib point. Total combined suspended weight beneath lower and upper boom points must not exceed 5,500 Lbs. (2 490 kg). Total suspended weight beneath jib point must not exceed 1,500 Lbs. (680 kg).
- B. Machine to travel on a firm and uniformly supporting surface with crane upperworks in-line with grade. 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. See tables on pages 2-5 for boom angle, boom length and direction for various grades. Adjust boom within boom angle range shown in tables on pages 2-5 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. See 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). Travel with crane upperworks in-line with grade at all times.
- E. Boom lengths shown in tables on pages 2 and 3 do not include jib. Boom lengths shown in tables on pages 4 and 5 include all jib lengths and offset angles.
- F. **Warning:** Travel prohibited for boom lengths not shown in tables on pages 2 thru 5. *Crane could tip.*

Refer to capacity charts for maximum boom and jib length raising.

Percent Grade Vs. Angle In Degrees	
Percent Grade	Angle
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
	555 SERIES 1		555 SERIES 2		
	Feet	Meters	Feet	Meters	
0 - 1% Percent Grade					
30 - 72	60 - 130	18.3 - 39.6	60 - 170	18.3 - 51.8	30 - 72
40 - 72	140 - 150	42.7 - 45.7	180	54.9	40 - 72
50 - 72	160 - 170	48.8 - 51.8	190 - 210	57.9 - 64.0	50 - 72
60 - 72	180 - 210	54.9 - 64.0	220 - 250	67.1 - 76.2	60 - 72
2 - 10% Percent Grade					
30 - 72	60 - 120	18.3 - 36.6	60 - 160	18.3 - 48.8	30 - 72
40 - 72	130 - 140	39.6 - 42.7	170	51.8	40 - 72
50 - 72	150	45.7	180 - 190	54.9 - 57.9	50 - 72
60 - 72	160 - 180	48.8 - 54.9	200 - 220	61.0 - 67.1	60 - 72
65 - 72	190	57.9	230 - 240	70.1 - 73.2	65 - 72
11 - 20% Percent Grade					
30 - 72	60 - 110	18.3 - 33.5	60 - 140	18.3 - 42.7	30 - 72
40 - 72	120	36.6	150	45.7	40 - 72
50 - 72	130	39.6	160	48.8	50 - 72
60 - 72	140 - 150	42.7 - 45.7	170 - 190	51.8 - 57.9	60 - 72
65 - 72	160 - 170	48.8 - 51.8	200	61.0	65 - 72
21 - 30% Percent Grade					
30 - 72	60 - 100	18.3 - 30.5	60 - 130	18.3 - 39.6	30 - 72
40 - 72	110	33.5	140	42.7	40 - 72
50 - 72	120	36.6	150	45.7	50 - 72
60 - 72	130	39.6	160	48.8	60 - 72
65 - 72	140	42.7	170 - 180	51.8 - 54.9	65 - 72

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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
	555 SERIES 1		555 SERIES 2		
	Feet	Meters	Feet	Meters	
0 - 1% Percent Grade					
30 - 72	60 - 130	18.3 - 39.6	60 - 170	18.3 - 51.8	30 - 72
40 - 72	140 - 150	42.7 - 45.7	180	54.9	40 - 72
50 - 72	160 - 170	48.8 - 51.8	190 - 210	57.9 - 64.0	50 - 72
60 - 72	180 - 210	54.9 - 64.0	220 - 250	67.1 - 76.2	60 - 72
2 - 10% Percent Grade					
30 - 50	—	—	60	18.3	30 - 50
30 - 60	60 - 70	18.3 - 21.3	70	21.3	30 - 60
30 - 66	80 - 140	24.4 - 42.7	80 - 180	24.4 - 54.9	30 - 66
40 - 66	150 - 160	45.7 - 48.8	190 - 200	57.9 - 61.0	40 - 66
50 - 66	170 - 200	51.8 - 61.0	210 - 240	64.0 - 73.2	50 - 66
60 - 66	210	64.0	250	76.2	60 - 66
11 - 20% Percent Grade					
30 - 35	60	18.3	70	21.3	30 - 35
30 - 45	70 - 80	21.3 - 24.4	80 - 100	24.4 - 30.5	30 - 45
30 - 60	90 - 160	27.4 - 48.8	110 - 200	33.5 - 61.0	30 - 60
40 - 60	170 - 180	51.8 - 54.9	210 - 230	64.0 - 70.1	40 - 60
50 - 60	190 - 210	57.9 - 64.0	240 - 250	73.2 - 76.2	50 - 60
21 - 30% Percent Grade					
30 - 40	80 - 110	24.4 - 33.5	100 - 130	30.5 - 39.6	30 - 40
30 - 55	120 - 170	36.6 - 51.8	140 - 210	42.7 - 64.0	30 - 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
	555 SERIES 1		555 SERIES 2		
	Feet	Meters	Feet	Meters	
0 - 1% Percent Grade					
50 - 72	100 - 130	30.5 - 39.6	100 - 170	30.5 - 51.8	50 - 72
55 - 72	140 - 150	42.7 - 45.7	180 - 190	54.9 - 57.9	55 - 72
60 - 72	160	48.8	200 - 210	61.0 - 64.0	60 - 72
65 - 72	170 - 180	51.8 - 54.9	220	67.1	65 - 72
2 - 10% Percent Grade					
50 - 72	100 - 110	30.5 - 33.5	100 - 150	30.5 - 45.7	50 - 72
55 - 72	120 - 130	36.6 - 39.6	160	48.8	55 - 72
60 - 72	140	42.7	170 - 180	51.8 - 54.9	60 - 72
65 - 72	150 - 160	45.7 - 48.8	190 - 200	57.9 - 61.0	65 - 72
11 - 20% Percent Grade					
50 - 72	—	—	100 - 130	30.5 - 39.6	50 - 72
55 - 72	100	30.5	140	42.7	55 - 72
60 - 72	110	33.5	150	45.7	60 - 72
65 - 72	120 - 130	36.6 - 39.6	160	48.8	65 - 72
21 - 30% Percent Grade					
50 - 72	—	—	100 - 110	30.5 - 33.5	50 - 72
55 - 72	—	—	120	36.6	55 - 72
60 - 72	—	—	130	39.6	60 - 72
65 - 72	100 - 110	30.5 - 33.5	140	42.7	65 - 72

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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
	555 SERIES 1		555 SERIES 2		
	Feet	Meters	Feet	Meters	
0 - 1% Percent Grade					
50 - 72	100 - 130	30.5 - 39.6	100 - 170	30.5 - 51.8	50 - 72
55 - 72	140 - 150	42.7 - 45.7	180 - 190	54.9 - 57.9	55 - 72
60 - 72	160	48.8	200 - 210	61.0 - 64.0	60 - 72
65 - 72	170 - 180	51.8 - 54.9	220	67.1	65 - 72
2 - 10% Percent Grade					
50 - 66	100 - 150	30.5 - 45.7	100 - 200	30.5 - 61.0	50 - 66
60 - 66	160 - 180	48.8 - 54.9	210 - 220	64.0 - 67.1	60 - 66
11 - 20% Percent Grade					
50 - 60	100 - 160	30.5 - 48.8	100 - 210	30.5 - 64.0	50 - 60
21 - 30% Percent Grade					
45 - 50	—	—	100 - 110	30.5 - 33.5	45 - 50
50 - 55	100 - 150	30.5 - 45.7	120 - 190	36.6 - 57.9	50 - 55