

Maximum Allowable Travel Specifications

888 SERIES 1
888 SERIES 2

Boom No. 22E With Open Throat Top
Inline/Offset 4-1/2 Degrees
Jib No. 123 With 12 Ft. 6 in. (3 810 mm) Strut

A. Jobsite Travel

1. MACHINE TRAVEL WITH LOAD

- a. Machine to travel on a firm, level and uniformly supporting surface and boom within boom angle range shown in capacity chart. 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.
- c. Refer to operators manual for maximum wind speed for various boom and jib lengths.

2. MACHINE TRAVEL WITHOUT LOAD

- a. Machine to travel on a firm and uniformly supporting surface. 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.
- b. See tables on pages 2-13 for boom angle and direction for various grades. Adjust boom within boom angle range shown in tables on pages 2-13 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.
- c. 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 7,500 Lbs. (3 400 kg). Total suspended weight beneath jib point must not exceed 2,000 Lbs. (910 kg).
- d. **For extended crawlers**, 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. **For retracted crawlers**, cutting (turning on grade) is prohibited. Travel in-line with grade and with crane upperworks in-line with retracted crawlers at all times.
- f. Jib lengths shown in tables include all jib offset angles.
- g. Refer to operators manual for maximum wind speed with various boom and jib lengths.



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Machine Travel Without Load - Boom Facing Downhill - 888 Series 1 144,100 Lb. (65 360 kg) Counterweight								
Boom Length		Boom Angle Range In Degrees						
		Percent Grade						
Feet	Meters	0%	5%	10%	15%	20%	25%	30%
70	21.3	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72
80	24.4	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72
90	27.4	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72
100	30.5	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72
110	33.5	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72
120	36.6	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72
130	39.6	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72
140	42.7	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72
150	45.7	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	33 - 72
160	48.8	30 - 72	30 - 72	30 - 72	30 - 72	32 - 72	38 - 72	43 - 72
170	51.8	30 - 72	30 - 72	30 - 72	35 - 72	40 - 72	45 - 72	49 - 72
180	54.9	30 - 72	34 - 72	38 - 72	42 - 72	46 - 72	51 - 72	55 - 72
190	57.9	36 - 72	40 - 72	44 - 72	48 - 72	52 - 72	56 - 72	60 - 72
200	61.0	41 - 72	45 - 72	49 - 72	52 - 72	56 - 72	60 - 72	63 - 72
210	64.0	45 - 72	49 - 72	52 - 72	56 - 72	59 - 72	63 - 72	66 - 72
220	67.0	49 - 72	52 - 72	55 - 72	59 - 72	62 - 72	66 - 72	69 - 72
230	70.1	52 - 72	55 - 72	58 - 72	62 - 72	65 - 72	69 - 72	*
240	73.2	54 - 72	58 - 72	61 - 72	64 - 72	67 - 72	71 - 72	*
250	76.2	57 - 72	60 - 72	63 - 72	66 - 72	69 - 72	*	**
260	79.2	59 - 72	62 - 72	65 - 72	68 - 72	71 - 72	**	**

* Boom must face uphill ** Travel condition is not allowed



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Inline/Offset 4-1/2 Degrees
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Machine Travel Without Load - Boom Facing Uphill - 888 Series 1 144,100 Lb. (65 360 kg) Counterweight								
Boom Length		Boom Angle Range In Degrees						
		Percent Grade						
Feet	Meters	0%	5%	10%	15%	20%	25%	30%
70	21.3	30 - 72	30 - 69	30 - 61	30 - 52	30 - 44	30 - 34	*
80	24.4	30 - 72	30 - 69	30 - 66	30 - 58	30 - 51	30 - 43	30 - 35
90	27.4	30 - 72	30 - 69	30 - 66	30 - 62	30 - 56	30 - 48	30 - 42
100	30.5	30 - 72	30 - 69	30 - 66	30 - 63	30 - 59	30 - 53	30 - 46
110	33.5	30 - 72	30 - 69	30 - 66	30 - 63	30 - 60	30 - 54	30 - 50
120	36.6	30 - 72	30 - 69	30 - 66	30 - 63	30 - 60	30 - 57	30 - 51
130	39.6	30 - 72	30 - 69	30 - 66	30 - 63	30 - 60	30 - 58	30 - 54
140	42.7	30 - 72	30 - 69	30 - 66	30 - 63	30 - 60	30 - 58	30 - 55
150	45.7	30 - 72	30 - 69	30 - 66	30 - 63	30 - 60	30 - 58	30 - 55
160	48.8	30 - 72	30 - 69	30 - 66	30 - 63	30 - 60	30 - 58	30 - 55
170	51.8	30 - 72	30 - 69	30 - 66	30 - 63	30 - 60	30 - 58	30 - 55
180	54.9	30 - 72	30 - 69	30 - 66	30 - 63	30 - 60	30 - 58	30 - 55
190	57.9	36 - 72	36 - 69	36 - 66	36 - 63	36 - 60	36 - 58	36 - 55
200	61.0	41 - 72	41 - 69	41 - 66	41 - 63	41 - 60	41 - 58	41 - 55
210	64.0	45 - 72	45 - 69	45 - 66	45 - 63	45 - 60	45 - 58	45 - 55
220	67.0	49 - 72	49 - 69	49 - 66	49 - 63	49 - 60	49 - 58	49 - 55
230	70.1	52 - 72	52 - 69	52 - 66	52 - 63	52 - 60	52 - 58	52 - 55
240	73.2	54 - 72	54 - 69	54 - 66	54 - 63	54 - 60	54 - 58	54 - 55
250	76.2	57 - 72	57 - 69	57 - 66	57 - 63	57 - 60	57 - 58	**
260	79.2	59 - 72	59 - 69	59 - 66	59 - 63	59 - 60	**	**

* Boom must face downhill

** Travel condition is not allowed



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Boom No. 22E With Open Throat Top
Inline/Offset 4-1/2 Degrees
Jib No. 123 With 12 Ft. 6 in. (3 810 mm) Strut

Machine Travel Without Load - Boom and Jib Facing Downhill - 888 Series 1 144,100 Lb. (65 360 kg) Counterweight								
Boom + Jib Length		Boom Angle Range In Degrees						
		Percent Grade						
Feet	Meters	0%	5%	10%	15%	20%	25%	30%
90 + 30	27.4 + 9.1	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
90 + 40	27.4 + 12.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
90 + 50	27.4 + 15.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
90 + 60	27.4 + 18.3	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
100 + 30	30.5 + 9.1	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
100 + 40	30.5 + 12.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
100 + 50	30.5 + 15.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
100 + 60	30.5 + 18.3	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
110 + 30	33.5 + 9.1	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
110 + 40	33.5 + 12.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
110 + 50	33.5 + 15.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
110 + 60	33.5 + 18.3	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
120 + 30	36.6 + 9.1	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
120 + 40	36.6 + 12.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
120 + 50	36.6 + 15.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
120 + 60	36.6 + 18.3	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
130 + 30	39.6 + 9.1	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
130 + 40	39.6 + 12.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
130 + 50	39.6 + 15.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	44 - 72
130 + 60	39.6 + 18.3	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	46 - 72
140 + 30	42.7 + 9.1	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	46 - 72
140 + 40	42.7 + 12.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	42 - 72	49 - 72
140 + 50	42.7 + 15.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	45 - 72	52 - 72
140 + 60	42.7 + 18.3	40 - 72	40 - 72	40 - 72	40 - 72	42 - 72	49 - 72	53 - 72
150 + 30	45.7 + 9.1	40 - 72	40 - 72	40 - 72	40 - 72	44 - 72	49 - 72	55 - 72
150 + 40	45.7 + 12.2	40 - 72	40 - 72	40 - 72	41 - 72	46 - 72	50 - 72	56 - 72
150 + 50	45.7 + 15.2	40 - 72	40 - 72	40 - 72	43 - 72	48 - 72	52 - 72	58 - 72
150 + 60	45.7 + 18.3	40 - 72	40 - 72	41 - 72	45 - 72	49 - 72	55 - 72	59 - 72
160 + 30	48.8 + 9.1	40 - 72	40 - 72	41 - 72	45 - 72	49 - 72	55 - 72	59 - 72
160 + 40	48.8 + 12.2	40 - 72	40 - 72	42 - 72	47 - 72	51 - 72	56 - 72	62 - 72
160 + 50	48.8 + 15.2	40 - 72	40 - 72	45 - 72	49 - 72	52 - 72	58 - 72	63 - 72
160 + 60	48.8 + 18.3	40 - 72	42 - 72	46 - 72	50 - 72	55 - 72	59 - 72	63 - 72
170 + 30	51.8 + 9.1	40 - 72	42 - 72	46 - 72	50 - 72	55 - 72	59 - 72	64 - 72
170 + 40	51.8 + 12.2	40 - 72	43 - 72	47 - 72	51 - 72	57 - 72	60 - 72	65 - 72
170 + 50	51.8 + 15.2	41 - 72	45 - 72	49 - 72	53 - 72	58 - 72	61 - 72	66 - 72
170 + 60	51.8 + 18.3	43 - 72	47 - 72	50 - 72	54 - 72	59 - 72	63 - 72	68 - 72
180 + 30	54.9 + 9.1	43 - 72	47 - 72	50 - 72	54 - 72	59 - 72	64 - 72	68 - 72
180 + 40	54.9 + 12.2	44 - 72	48 - 72	52 - 72	55 - 72	60 - 72	65 - 72	69 - 72
180 + 50	54.9 + 15.2	44 - 72	48 - 72	53 - 72	57 - 72	61 - 72	66 - 72	70 - 72
180 + 60	54.9 + 18.3	46 - 72	51 - 72	54 - 72	59 - 72	62 - 72	66 - 72	70 - 72



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Machine Travel Without Load - Boom and Jib Facing Downhill - 888 Series 1 144,100 Lb. (65 360 kg) Counterweight								
Boom + Jib Length		Boom Angle Range In Degrees						
		Percent Grade						
Feet	Meters	0%	5%	10%	15%	20%	25%	30%
190 + 30	57.9 + 9.1	47 - 72	51 - 72	54 - 72	59 - 72	62 - 72	67 - 72	71 - 72
190 + 40	57.9 + 12.2	47 - 72	52 - 72	55 - 72	60 - 72	63 - 72	67 - 72	71 - 72
190 + 50	57.9 + 15.2	49 - 72	52 - 72	56 - 72	61 - 72	64 - 72	68 - 72	*
190 + 60	57.9 + 18.3	50 - 72	54 - 72	57 - 72	62 - 72	66 - 72	70 - 72	*
200 + 30	61.0 + 9.1	50 - 72	55 - 72	58 - 72	62 - 72	66 - 72	70 - 72	*
200 + 40	61.0 + 12.2	51 - 72	55 - 72	59 - 72	63 - 72	67 - 72	71 - 72	*
200 + 50	61.0 + 15.2	52 - 72	55 - 72	60 - 72	64 - 72	68 - 72	71 - 72	*
200 + 60	61.0 + 18.3	53 - 72	56 - 72	60 - 72	64 - 72	68 - 72	*	*
210 + 30	64.0 + 9.1	53 - 72	56 - 72	61 - 72	65 - 72	68 - 72	*	*
210 + 40	64.0 + 12.2	54 - 72	57 - 72	61 - 72	65 - 72	69 - 72	*	*
210 + 50	64.0 + 15.2	54 - 72	58 - 72	62 - 72	66 - 72	70 - 72	*	*
210 + 60	64.0 + 18.3	55 - 72	59 - 72	63 - 72	67 - 72	70 - 72	*	**
220 + 30	67.1 + 9.1	55 - 72	59 - 72	63 - 72	67 - 72	71 - 72	*	**
220 + 40	67.1 + 12.2	56 - 72	60 - 72	64 - 72	68 - 72	71 - 72	*	**
220 + 50	67.1 + 15.2	57 - 72	61 - 72	65 - 72	68 - 72	*	*	**
220 + 60	67.1 + 18.3	58 - 72	62 - 72	65 - 72	69 - 72	*	**	**
230 + 30	70.1 + 9.1	58 - 72	62 - 72	66 - 72	69 - 72	*	**	**
230 + 40	70.1 + 12.2	59 - 72	63 - 72	66 - 72	70 - 72	*	**	**
230 + 50	70.1 + 15.2	60 - 72	63 - 72	67 - 72	70 - 72	**	**	**

* Boom must face uphill ** Travel condition is not allowed



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Jib No. 123 With 12 Ft. 6 in. (3 810 mm) Strut

Machine Travel Without Load - Boom and Jib Facing Uphill - 888 Series 1 144,100 Lb. (65 360 kg) Counterweight								
Boom + Jib Length		Boom Angle Range In Degrees						
		Percent Grade						
Feet	Meters	0%	5%	10%	15%	20%	25%	30%
90 + 30	27.4 + 9.1	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 53	40 - 46
90 + 40	27.4 + 12.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 53	40 - 48
90 + 50	27.4 + 15.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 57	40 - 49
90 + 60	27.4 + 18.3	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 52
100 + 30	30.5 + 9.1	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 52
100 + 40	30.5 + 12.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 52
100 + 50	30.5 + 15.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 52
100 + 60	30.5 + 18.3	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
110 + 30	33.5 + 9.1	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
110 + 40	33.5 + 12.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
110 + 50	33.5 + 15.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
110 + 60	33.5 + 18.3	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
120 + 30	36.6 + 9.1	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
120 + 40	36.6 + 12.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
120 + 50	36.6 + 15.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
120 + 60	36.6 + 18.3	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
130 + 30	39.6 + 9.1	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
130 + 40	39.6 + 12.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
130 + 50	39.6 + 15.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
130 + 60	39.6 + 18.3	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
140 + 30	42.7 + 9.1	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
140 + 40	42.7 + 12.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
140 + 50	42.7 + 15.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
140 + 60	42.7 + 18.3	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
150 + 30	45.7 + 9.1	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
150 + 40	45.7 + 12.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
150 + 50	45.7 + 15.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
150 + 60	45.7 + 18.3	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
160 + 30	48.8 + 9.1	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
160 + 40	48.8 + 12.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
160 + 50	48.8 + 15.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
160 + 60	48.8 + 18.3	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
170 + 30	51.8 + 9.1	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
170 + 40	51.8 + 12.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
170 + 50	51.8 + 15.2	41 - 72	41 - 69	41 - 66	41 - 63	41 - 60	41 - 58	41 - 55
170 + 60	51.8 + 18.3	43 - 72	43 - 69	43 - 66	43 - 63	43 - 60	43 - 58	43 - 55
180 + 30	54.9 + 9.1	43 - 72	43 - 69	43 - 66	43 - 63	43 - 60	43 - 58	43 - 55
180 + 40	54.9 + 12.2	44 - 72	44 - 69	44 - 66	44 - 63	44 - 60	44 - 58	44 - 55
180 + 50	54.9 + 15.2	44 - 72	44 - 69	44 - 66	44 - 63	44 - 60	44 - 58	44 - 55
180 + 60	54.9 + 18.3	46 - 72	46 - 69	46 - 66	46 - 63	46 - 60	46 - 58	46 - 55



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Machine Travel Without Load - Boom and Jib Facing Uphill - 888 Series 1 144,100 Lb. (65 360 kg) Counterweight								
Boom + Jib Length		Boom Angle Range In Degrees						
		Percent Grade						
Feet	Meters	0%	5%	10%	15%	20%	25%	30%
190 + 30	57.9 + 9.1	47 - 72	47 - 69	47 - 66	47 - 63	47 - 60	47 - 58	47 - 55
190 + 40	57.9 + 12.2	47 - 72	47 - 69	47 - 66	47 - 63	47 - 60	47 - 58	47 - 55
190 + 50	57.9 + 15.2	48 - 72	48 - 69	48 - 66	48 - 63	48 - 60	48 - 58	48 - 55
190 + 60	57.9 + 18.3	50 - 72	50 - 69	50 - 66	50 - 63	50 - 60	50 - 58	50 - 55
200 + 30	61.0 + 9.1	50 - 72	50 - 69	50 - 66	50 - 63	50 - 60	50 - 58	50 - 55
200 + 40	61.0 + 12.2	51 - 72	51 - 69	51 - 66	51 - 63	51 - 60	51 - 58	51 - 55
200 + 50	61.0 + 15.2	52 - 72	52 - 69	52 - 66	52 - 63	52 - 60	52 - 58	52 - 55
200 + 60	61.0 + 18.3	53 - 72	53 - 69	53 - 66	53 - 63	53 - 60	53 - 58	53 - 55
210 + 30	64.0 + 9.1	53 - 72	53 - 69	53 - 66	53 - 63	53 - 60	53 - 58	53 - 55
210 + 40	64.0 + 12.2	54 - 72	54 - 69	54 - 66	54 - 63	54 - 60	54 - 58	54 - 55
210 + 50	64.0 + 15.2	54 - 72	54 - 69	54 - 66	54 - 63	54 - 60	54 - 58	54 - 55
210 + 60	64.0 + 18.3	55 - 72	55 - 69	55 - 66	55 - 63	55 - 60	55 - 58	**
220 + 30	67.1 + 9.1	55 - 72	55 - 69	55 - 66	55 - 63	55 - 60	55 - 58	**
220 + 40	67.1 + 12.2	55 - 72	55 - 69	55 - 66	55 - 63	55 - 60	55 - 58	**
220 + 50	67.1 + 15.2	57 - 72	57 - 69	57 - 66	57 - 63	57 - 60	57 - 58	**
220 + 60	67.1 + 18.3	58 - 72	58 - 69	58 - 66	58 - 63	58 - 60	**	**
230 + 30	70.1 + 9.1	58 - 72	58 - 69	58 - 66	58 - 63	58 - 60	**	**
230 + 40	70.1 + 12.2	59 - 72	59 - 69	59 - 66	59 - 63	59 - 60	**	**
230 + 50	70.1 + 15.2	60 - 72	60 - 69	60 - 66	60 - 63	**	**	**

** Travel condition is not allowed



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Boom No. 22E With Open Throat Top
Inline/Offset 4-1/2 Degrees
Jib No. 123 With 12 Ft. 6 in. (3 810 mm) Strut

Machine Travel Without Load - Boom Facing Downhill - 888 Series 2 179,100 Lb. (81 240 kg) Crane Counterweight - 44,000 Lb. (19 960 kg) Carbody Counterweight								
Boom Length		Boom Angle Range In Degrees						
		Percent Grade						
Feet	Meters	0%	5%	10%	15%	20%	25%	30%
70	21.3	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72
80	24.4	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72
90	27.4	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72
100	30.5	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72
110	33.5	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72
120	36.6	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72
130	39.6	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72
140	42.7	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72
150	45.7	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72
160	48.8	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72
170	51.8	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72
180	54.9	30 - 72	30 - 72	30 - 72	30 - 72	30 - 72	31 - 72	37 - 72
190	57.9	30 - 72	30 - 72	30 - 72	30 - 72	35 - 72	41 - 72	46 - 72
200	61.0	30 - 72	30 - 72	33 - 72	37 - 72	42 - 72	47 - 72	51 - 72
210	64.0	30 - 72	35 - 72	39 - 72	43 - 72	47 - 72	52 - 72	56 - 72
220	67.0	36 - 72	40 - 72	44 - 72	48 - 72	52 - 72	56 - 72	60 - 72
230	70.1	41 - 72	45 - 72	48 - 72	52 - 72	56 - 72	60 - 72	63 - 72
240	73.2	45 - 72	48 - 72	52 - 72	55 - 72	59 - 72	63 - 72	66 - 72
250	76.2	48 - 72	51 - 72	55 - 72	58 - 72	62 - 72	65 - 72	69 - 72
260	79.2	51 - 72	54 - 72	58 - 72	61 - 72	64 - 72	68 - 72	71 - 72
270	82.3	53 - 72	57 - 72	60 - 72	63 - 72	66 - 72	70 - 72	*
280	85.3	55 - 72	59 - 72	62 - 72	65 - 72	68 - 72	*	**
290	88.4	57 - 72	61 - 72	64 - 72	67 - 72	70 - 72	*	**

* Boom must face uphill ** Travel condition is not allowed



Maximum Allowable Travel Specifications

888 SERIES 1
888 SERIES 2

Boom No. 22E With Open Throat Top
Inline/Offset 4-1/2 Degrees
Jib No. 123 With 12 Ft. 6 in. (3 810 mm) Strut

Machine Travel Without Load - Boom Facing Uphill - 888 Series 2 179,100 Lb. (81 240 kg) Crane Counterweight - 44,000 Lb. (19 960 kg) Carbody Counterweight								
Boom Length		Boom Angle Range In Degrees						
		Percent Grade						
Feet	Meters	0%	5%	10%	15%	20%	25%	30%
70	21.3	30 - 72	30 - 69	30 - 60	30 - 49	30 - 38	*	*
80	24.4	30 - 72	30 - 69	30 - 65	30 - 55	30 - 46	30 - 37	*
90	27.4	30 - 72	30 - 69	30 - 66	30 - 60	30 - 52	30 - 44	30 - 36
100	30.5	30 - 72	30 - 69	30 - 66	30 - 63	30 - 56	30 - 49	30 - 41
110	33.5	30 - 72	30 - 69	30 - 66	30 - 63	30 - 60	30 - 50	30 - 46
120	36.6	30 - 72	30 - 69	30 - 66	30 - 63	30 - 60	30 - 54	30 - 48
130	39.6	30 - 72	30 - 69	30 - 66	30 - 63	30 - 60	30 - 57	30 - 52
140	42.7	30 - 72	30 - 69	30 - 66	30 - 63	30 - 60	30 - 58	30 - 55
150	45.7	30 - 72	30 - 69	30 - 66	30 - 63	30 - 60	30 - 58	30 - 55
160	48.8	30 - 72	30 - 69	30 - 66	30 - 63	30 - 60	30 - 58	30 - 55
170	51.8	30 - 72	30 - 69	30 - 66	30 - 63	30 - 60	30 - 58	30 - 55
180	54.9	30 - 72	30 - 69	30 - 66	30 - 63	30 - 60	30 - 58	30 - 55
190	57.9	30 - 72	30 - 69	30 - 66	30 - 63	30 - 60	30 - 58	30 - 55
200	61.0	30 - 72	30 - 69	30 - 66	30 - 63	30 - 60	30 - 58	30 - 55
210	64.0	30 - 72	30 - 69	30 - 66	30 - 63	30 - 60	30 - 58	30 - 55
220	67.0	36 - 72	36 - 69	36 - 66	36 - 63	36 - 60	36 - 58	36 - 55
230	70.1	41 - 72	41 - 69	41 - 66	41 - 63	41 - 60	41 - 58	41 - 55
240	73.2	45 - 72	45 - 69	45 - 66	45 - 63	45 - 60	45 - 58	45 - 55
250	76.2	48 - 72	48 - 69	48 - 66	48 - 63	48 - 60	48 - 58	48 - 55
260	79.2	51 - 72	51 - 69	51 - 66	51 - 63	51 - 60	51 - 58	51 - 55
270	82.3	53 - 72	53 - 69	53 - 66	53 - 63	53 - 60	53 - 58	53 - 55
280	85.3	55 - 72	55 - 69	55 - 66	55 - 63	55 - 60	55 - 58	**
290	88.4	57 - 72	57 - 69	57 - 66	57 - 63	57 - 60	57 - 58	**

* Boom must face downhill ** Travel condition is not allowed



Maximum Allowable Travel Specifications

888 SERIES 1 888 SERIES 2

Boom No. 22E With Open Throat Top
Inline/Offset 4-1/2 Degrees
Jib No. 123 With 12 Ft. 6 in. (3 810 mm) Strut

Machine Travel Without Load - Boom and Jib Facing Downhill - 888 Series 2 179,100 Lb. (81 240 kg) Crane Counterweight - 44,000 Lb. (19 960 kg) Carbody Counterweight								
Boom + Jib Length		Boom Angle Range In Degrees						
		Percent Grade						
Feet	Meters	0%	5%	10%	15%	20%	25%	30%
90 + 30	27.4 + 9.1	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
90 + 40	27.4 + 12.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
90 + 50	27.4 + 15.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
90 + 60	27.4 + 18.3	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
100 + 30	30.5 + 9.1	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
100 + 40	30.5 + 12.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
100 + 50	30.5 + 15.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
100 + 60	30.5 + 18.3	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
110 + 30	33.5 + 9.1	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
110 + 40	33.5 + 12.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
110 + 50	33.5 + 15.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
110 + 60	33.5 + 18.3	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
120 + 30	36.6 + 9.1	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
120 + 40	36.6 + 12.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
120 + 50	36.6 + 15.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
120 + 60	36.6 + 18.3	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
130 + 30	39.6 + 9.1	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
130 + 40	39.6 + 12.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
130 + 50	39.6 + 15.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
130 + 60	39.6 + 18.3	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
140 + 30	42.7 + 9.1	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
140 + 40	42.7 + 12.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
140 + 50	42.7 + 15.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
140 + 60	42.7 + 18.3	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
150 + 30	45.7 + 9.1	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
150 + 40	45.7 + 12.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
150 + 50	45.7 + 15.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72
150 + 60	45.7 + 18.3	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	43 - 72
160 + 30	48.8 + 9.1	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	43 - 72
160 + 40	48.8 + 12.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	47 - 72
160 + 50	48.8 + 15.2	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	42 - 72	49 - 72
160 + 60	48.8 + 18.3	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	44 - 72	50 - 72
170 + 30	51.8 + 9.1	40 - 72	40 - 72	40 - 72	40 - 72	40 - 72	44 - 72	50 - 72
170 + 40	51.8 + 12.2	40 - 72	40 - 72	40 - 72	40 - 72	41 - 72	45 - 72	51 - 72
170 + 50	51.8 + 15.2	40 - 72	40 - 72	40 - 72	40 - 72	43 - 72	49 - 72	53 - 72
170 + 60	51.8 + 18.3	40 - 72	40 - 72	40 - 72	40 - 72	45 - 72	50 - 72	56 - 72



Maximum Allowable Travel Specifications

888 SERIES 1
888 SERIES 2

Boom No. 22E With Open Throat Top
Inline/Offset 4-1/2 Degrees
Jib No. 123 With 12 Ft. 6 in. (3 810 mm) Strut

Machine Travel Without Load - Boom and Jib Facing Downhill - 888 Series 2 179,100 Lb. (81 240 kg) Crane Counterweight - 44,000 Lb. (19 960 kg) Carbody Counterweight								
Boom + Jib Length		Boom Angle Range In Degrees						
		Percent Grade						
Feet	Meters	0%	5%	10%	15%	20%	25%	30%
180 + 30	54.9 + 9.1	40 - 72	40 - 72	40 - 72	40 - 72	45 - 72	50 - 72	56 - 72
180 + 40	54.9 + 12.2	40 - 72	40 - 72	40 - 72	42 - 72	46 - 72	52 - 72	57 - 72
180 + 50	54.9 + 15.2	40 - 72	40 - 72	40 - 72	44 - 72	48 - 72	53 - 72	58 - 72
180 + 60	54.9 + 18.3	40 - 72	40 - 72	40 - 72	46 - 72	51 - 72	56 - 72	60 - 72
190 + 30	57.9 + 9.1	40 - 72	40 - 72	41 - 72	46 - 72	51 - 72	56 - 72	60 - 72
190 + 40	57.9 + 12.2	40 - 72	40 - 72	43 - 72	47 - 72	52 - 72	57 - 72	62 - 72
190 + 50	57.9 + 15.2	41 - 72	40 - 72	45 - 72	49 - 72	54 - 72	58 - 72	63 - 72
190 + 60	57.9 + 18.3	41 - 72	40 - 72	46 - 72	51 - 72	56 - 72	60 - 72	64 - 72
200 + 30	61.0 + 9.1	41 - 72	42 - 72	46 - 72	51 - 72	56 - 72	60 - 72	65 - 72
200 + 40	61.0 + 12.2	41 - 72	44 - 72	48 - 72	53 - 72	57 - 72	61 - 72	66 - 72
200 + 50	61.0 + 15.2	41 - 72	44 - 72	49 - 72	54 - 72	58 - 72	62 - 72	66 - 72
200 + 60	61.0 + 18.3	42 - 72	45 - 72	50 - 72	55 - 72	59 - 72	63 - 72	68 - 72
210 + 30	64.0 + 9.1	42 - 72	45 - 72	50 - 72	55 - 72	59 - 72	63 - 72	67 - 72
210 + 40	64.0 + 12.2	43 - 72	46 - 72	51 - 72	56 - 72	60 - 72	64 - 72	68 - 72
210 + 50	64.0 + 15.2	45 - 72	48 - 72	53 - 72	57 - 72	61 - 72	65 - 72	70 - 72
210 + 60	64.0 + 18.3	46 - 72	49 - 72	54 - 72	58 - 72	62 - 72	67 - 72	70 - 72
220 + 30	67.1 + 9.1	46 - 72	49 - 72	54 - 72	58 - 72	62 - 72	67 - 72	70 - 72
220 + 40	67.1 + 12.2	47 - 72	50 - 72	55 - 72	59 - 72	63 - 72	67 - 72	71 - 72
220 + 50	67.1 + 15.2	47 - 72	52 - 72	56 - 72	60 - 72	64 - 72	68 - 72	*
220 + 60	67.1 + 18.3	48 - 72	52 - 72	57 - 72	60 - 72	65 - 72	69 - 72	*
230 + 30	70.1 + 9.1	49 - 72	52 - 72	57 - 72	61 - 72	65 - 72	69 - 72	*
230 + 40	70.1 + 12.2	50 - 72	53 - 72	58 - 72	61 - 72	66 - 72	70 - 72	*
230 + 50	70.1 + 15.2	51 - 72	55 - 72	59 - 72	62 - 72	67 - 72	70 - 72	*
230 + 60	70.1 + 18.3	51 - 72	55 - 72	59 - 72	64 - 72	67 - 72	*	*
240 + 30	73.2 + 9.1	51 - 72	55 - 72	59 - 72	64 - 72	67 - 72	*	*
240 + 40	73.2 + 12.2	52 - 72	56 - 72	60 - 72	64 - 72	68 - 72	*	*
240 + 50	73.2 + 15.2	54 - 72	57 - 72	61 - 72	64 - 72	69 - 72	*	*
240 + 60	73.2 + 18.3	54 - 72	58 - 72	61 - 72	66 - 72	69 - 72	*	*
250 + 30	76.2 + 9.1	54 - 72	58 - 72	63 - 72	66 - 72	69 - 72	*	*
250 + 40	76.2 + 12.2	55 - 72	59 - 72	63 - 72	66 - 72	70 - 72	*	**
250 + 50	76.2 + 15.2	56 - 72	60 - 72	63 - 72	67 - 72	71 - 72	*	**
250 + 60	76.2 + 18.3	57 - 72	60 - 72	64 - 72	68 - 72	71 - 72	*	**
260 + 30	79.2 + 9.1	57 - 72	61 - 72	64 - 72	68 - 72	*	*	**
260 + 40	79.2 + 12.2	57 - 72	61 - 72	65 - 72	68 - 72	*	*	**
260 + 50	79.2 + 15.2	58 - 72	61 - 72	65 - 72	68 - 72	*	**	**
260 + 60	79.2 + 18.3	58 - 72	62 - 72	66 - 72	70 - 72	*	**	**
270 + 30	82.3 + 9.1	58 - 72	62 - 72	66 - 72	70 - 72	*	**	**

* Boom must face uphill ** Travel condition is not allowed



Maximum Allowable Travel Specifications

888 SERIES 1 888 SERIES 2

Boom No. 22E With Open Throat Top
Inline/Offset 4-1/2 Degrees
Jib No. 123 With 12 Ft. 6 in. (3 810 mm) Strut

Machine Travel Without Load - Boom and Jib Facing Uphill - 888 Series 2								
179,100 Lb. (81 240 kg) Crane Counterweight - 44,000 Lb. (19 960 kg) Carbody Counterweight								
Boom + Jib Length		Boom Angle Range In Degrees						
		Percent Grade						
Feet	Meters	0%	5%	10%	15%	20%	25%	30%
90 + 30	27.4 + 9.1	40 - 72	40 - 69	40 - 66	40 - 63	40 - 58	40 - 50	40 - 43
90 + 40	27.4 + 12.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 59	40 - 51	40 - 45
90 + 50	27.4 + 15.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 59	40 - 52	40 - 46
90 + 60	27.4 + 18.3	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 53	40 - 47
100 + 30	30.5 + 9.1	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 53	40 - 47
100 + 40	30.5 + 12.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 54	40 - 49
100 + 50	30.5 + 15.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 55	40 - 50
100 + 60	30.5 + 18.3	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 56	40 - 50
110 + 30	33.5 + 9.1	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 56	40 - 51
110 + 40	33.5 + 12.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 57	40 - 52
110 + 50	33.5 + 15.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 53
110 + 60	33.5 + 18.3	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 53
120 + 30	36.6 + 9.1	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 54
120 + 40	36.6 + 12.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
120 + 50	36.6 + 15.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
120 + 60	36.6 + 18.3	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
130 + 30	39.6 + 9.1	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
130 + 40	39.6 + 12.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
130 + 50	39.6 + 15.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
130 + 60	39.6 + 18.3	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
140 + 30	42.7 + 9.1	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
140 + 40	42.7 + 12.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
140 + 50	42.7 + 15.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
140 + 60	42.7 + 18.3	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
150 + 30	45.7 + 9.1	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
150 + 40	45.7 + 12.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
150 + 50	45.7 + 15.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
150 + 60	45.7 + 18.3	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
160 + 30	48.8 + 9.1	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
160 + 40	48.8 + 12.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
160 + 50	48.8 + 15.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
160 + 60	48.8 + 18.3	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
170 + 30	51.8 + 9.1	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
170 + 40	51.8 + 12.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
170 + 50	51.8 + 15.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
170 + 60	51.8 + 18.3	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
180 + 30	54.9 + 9.1	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
180 + 40	54.9 + 12.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
180 + 50	54.9 + 15.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
180 + 60	54.9 + 18.3	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55



Maximum Allowable Travel Specifications

888 SERIES 1
888 SERIES 2

Boom No. 22E With Open Throat Top
Inline/Offset 4-1/2 Degrees
Jib No. 123 With 12 Ft. 6 in. (3 810 mm) Strut

Machine Travel Without Load - Boom and Jib Facing Uphill - 888 Series 2 179,100 Lb. (81 240 kg) Crane Counterweight - 44,000 Lb. (19 960 kg) Carbody Counterweight								
Boom + Jib Length		Boom Angle Range In Degrees						
		Percent Grade						
Feet	Meters	0%	5%	10%	15%	20%	25%	30%
190 + 30	57.9 + 9.1	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
190 + 40	57.9 + 12.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
190 + 50	57.9 + 15.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
190 + 60	57.9 + 18.3	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
200 + 30	61.0 + 9.1	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
200 + 40	61.0 + 12.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
200 + 50	61.0 + 15.2	40 - 72	40 - 69	40 - 66	40 - 63	40 - 60	40 - 58	40 - 55
200 + 60	61.0 + 18.3	42 - 72	42 - 69	42 - 66	42 - 63	42 - 60	42 - 58	42 - 55
210 + 30	64.0 + 9.1	42 - 72	42 - 69	42 - 66	42 - 63	42 - 60	42 - 58	42 - 55
210 + 40	64.0 + 12.2	43 - 72	43 - 69	43 - 66	43 - 63	43 - 60	43 - 58	43 - 55
210 + 50	64.0 + 15.2	45 - 72	45 - 69	45 - 66	45 - 63	45 - 60	45 - 58	45 - 55
210 + 60	64.0 + 18.3	46 - 72	46 - 69	46 - 66	46 - 63	46 - 60	46 - 58	46 - 55
220 + 30	67.1 + 9.1	46 - 72	46 - 69	46 - 66	46 - 63	46 - 60	46 - 58	46 - 55
220 + 40	67.1 + 12.2	47 - 72	47 - 69	47 - 66	47 - 63	47 - 60	47 - 58	47 - 55
220 + 50	67.1 + 15.2	47 - 72	47 - 69	47 - 66	47 - 63	47 - 60	47 - 58	47 - 55
220 + 60	67.1 + 18.3	48 - 72	48 - 69	48 - 66	48 - 63	48 - 60	48 - 58	48 - 55
230 + 30	70.1 + 9.1	49 - 72	49 - 69	49 - 66	49 - 63	49 - 60	49 - 58	49 - 55
230 + 40	70.1 + 12.2	51 - 72	51 - 69	51 - 66	51 - 63	51 - 60	51 - 58	51 - 55
230 + 50	70.1 + 15.2	51 - 72	51 - 69	51 - 66	51 - 63	51 - 60	51 - 58	51 - 55
230 + 60	70.1 + 18.3	51 - 72	51 - 69	51 - 66	51 - 63	51 - 60	51 - 58	51 - 55
240 + 30	73.2 + 9.1	51 - 72	51 - 69	51 - 66	51 - 63	51 - 60	51 - 58	51 - 55
240 + 40	73.2 + 12.2	52 - 72	52 - 69	52 - 66	52 - 63	52 - 60	52 - 58	52 - 55
240 + 50	73.2 + 15.2	53 - 72	53 - 69	53 - 66	53 - 63	53 - 60	53 - 58	53 - 55
240 + 60	73.2 + 18.3	54 - 72	54 - 69	54 - 66	54 - 63	54 - 60	54 - 58	54 - 55
250 + 30	76.2 + 9.1	54 - 72	54 - 69	54 - 66	54 - 63	54 - 60	54 - 58	54 - 55
250 + 40	76.2 + 12.2	55 - 72	55 - 69	55 - 66	55 - 63	55 - 60	55 - 58	**
250 + 50	76.2 + 15.2	56 - 72	56 - 69	56 - 66	56 - 63	56 - 60	56 - 58	**
250 + 60	76.2 + 18.3	57 - 72	57 - 69	57 - 66	57 - 63	57 - 60	57 - 58	**
260 + 30	79.2 + 9.1	57 - 72	57 - 69	57 - 66	57 - 63	57 - 60	57 - 58	**
260 + 40	79.2 + 12.2	57 - 72	57 - 69	57 - 66	57 - 63	57 - 60	57 - 58	**
260 + 50	79.2 + 15.2	58 - 72	58 - 69	58 - 66	58 - 63	58 - 60	**	**
260 + 60	79.2 + 18.3	58 - 72	58 - 69	58 - 66	58 - 63	58 - 60	**	**
270 + 30	82.3 + 9.1	58 - 72	58 - 69	58 - 66	58 - 63	58 - 60	**	**

** Travel condition is not allowed