

Maximum Allowable Travel Specifications

Boom No. 78T With Heavy Lift Top
Luffing Jib No. 139

Jobsite Travel

777T must be equipped with counterweights as specified in tables.

1. Machine Travel With Load Not Allowed With Luffing Jib Attached

2. Machine Travel Without Load

- A. Load blocks and/or hook and weight ball may be suspended below lower boom point and luffing jib point. Total suspended weight beneath boom point must not exceed 5,750 Lbs. (2 610 kg). Total suspended weight beneath luffing jib point must not exceed 3,000 Lbs. (1 360 kg).
- B. Machine to travel on a firm and uniformly supporting surface with crane upperworks in-line with carrier, 116 PSI (800 kPa) minimum tire pressure and ¼ MPH (0.4 kms/hr) maximum travel speed. Grade in direction of travel must not exceed 5 percent (2.9 degrees); side-to-side grade must not exceed 1 percent (0.5 degrees) measured at boom hinge pins.
- C. See table below for grade vs. boom angle when traveling. Adjust boom for desired grade to be traveled and set boom and luffing jib at angle shown in tables on following pages. See tables on following pages for travel without load on various grades. *Refer to 2 percent (1.1 degrees) table when grade exceeds 1 percent (0.5 degrees).* When traveling on **downhill grade with upper facing rear, lower boom** the corresponding degrees for grade to be traveled. When traveling on **uphill grade with upper facing rear, raise boom** the corresponding degrees for grade to be traveled. When traveling on **downhill grade with upper facing front, raise boom** the corresponding degrees for grade to be traveled. When traveling on **uphill grade with upper facing front, lower boom** the corresponding degrees for grade to be traveled.

Percent Grade Vs. Angle In Degrees and Boom Angle Setting													
Percent Grade	Angle	Upper Facing Rear						Upper Facing Front					
		Downhill Grade			Uphill Grade			Downhill Grade			Uphill Grade		
		Boom Angle						Boom Angle					
		70°	75°	80°	70°	75°	80°	70°	75°	80°	70°	75°	80°
1	0.5°	69.5°	74.5°	79.5°	70.5°	75.5°	80.5°	70.5°	75.5°	80.5°	69.5°	74.5°	79.5°
2	1.1°	68.9°	73.9°	78.9°	71.1°	76.1°	81.1°	71.1°	76.1°	81.1°	68.9°	73.9°	78.9°
3	1.7°	68.3°	73.3°	78.3°	71.7°	76.7°	81.7°	71.7°	76.7°	81.7°	68.3°	73.3°	78.3°
4	2.3°	67.7°	72.7°	77.7°	72.3°	77.3°	82.3°	72.3°	77.3°	82.3°	67.7°	72.7°	77.7°
5	2.9°	67.1°	72.1°	77.1°	72.9°	77.9°	82.9°	72.9°	77.9°	82.9°	67.1°	72.1°	77.1°

- D. Travel with crane upperworks inline with grade at all times. Do not exceed 1 percent (0.5 degrees) side-to-side grade at boom hinge pins when turning on grade.

- E. **Warning:** Travel prohibited for boom lengths, luffing jib lengths and boom and luffing jib angles not shown in tables. *Machine could tip.*

- F. Lower boom point assembly, auxiliary drum, wire rope guides in 17.5 Ft. (5.3m) insert and one sheave in jib strut must be removed on 170 Ft. (51.8m) and 180 Ft. (54.9m) boom lengths.

Refer to Luffing Jib Raising Procedure for maximum boom and luffing jib length raising.

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Boom No. 78T With Heavy Lift Top
Luffing Jib No. 139

Machine Travel Downhill Without Load - Upper Facing Rear										
95,400 Lb. (43 270 kg) Counterweight With 25,000 Lb. (11 340 kg) Front Bumper Counterweight										
Boom Length		Boom Angle Degrees	0-1% Downhill Grade			2-5% Downhill Grade			Boom Length	
			Luffing Jib Lengths		Luffing Jib Angle	Luffing Jib Lengths		Luffing Jib Angle		
Ft.	Meters		Ft.	Meters	Degrees	Ft.	Meters	Degrees	Ft.	Meters
60	18.3	70	70 - 110*	21.3 - 33.5*	35 - 50	70 - 110*	21.3 - 33.5*	35 - 50	60	18.3
60	18.3	75	120 - 170	36.6 - 51.8	35 - 50	120 - 160	36.6 - 48.8	35 - 50	60	18.3
60	18.3	80				170	51.8	50 - 60	60	18.3
70	21.3	70	70 - 100*	21.3 - 30.5*	35 - 50	70 - 100*	21.3 - 30.5*	35 - 50	70	21.3
70	21.3	75	110 - 170	33.5 - 51.8	35 - 50	110 - 150	33.5 - 45.7	35 - 50	70	21.3
70	21.3	80				160 - 170	48.8 - 51.8	50 - 60	70	21.3
80	24.4	70	70 - 90	21.3 - 27.4	35 - 50	70 - 90	21.3 - 27.4	35 - 50	80	24.4
80	24.4	75	100 - 160	30.5 - 48.8	35 - 50	100 - 130	30.5 - 39.6	35 - 50	80	24.4
80	24.4	80	170	51.8	50 - 60	140 - 170	42.7 - 51.8	50 - 60	80	24.4
90	27.4	70	70	21.3	35 - 50	70	21.3	35 - 50	90	27.4
90	27.4	75	80 - 150	24.4 - 45.7	35 - 50	80 - 120	24.4 - 36.6	35 - 50	90	27.4
90	27.4	80	160 - 170	48.8 - 51.8	50 - 60	130 - 170	39.6 - 51.8	50 - 60	90	27.4
100	30.5	75	70 - 150	21.3 - 45.7	35 - 50	70 - 110	21.3 - 33.5	35 - 50	100	30.5
100	30.5	80	160 - 170	48.8 - 51.8	50 - 60	120 - 170	36.6 - 51.8	55 - 60	100	30.5
110	33.5	75	70 - 140	21.3 - 42.7	35 - 50	70 - 100	21.3 - 30.5	35 - 50	110	33.5
110	33.5	80	150 - 170	45.7 - 51.8	50 - 60	110 - 160	33.5 - 48.8	55 - 60	110	33.5
120	36.6	75	70 - 130	21.3 - 39.6	35 - 50	70 - 90	21.3 - 27.4	35 - 50	120	36.6
120	36.6	80	140 - 170	42.7 - 51.8	50 - 60	100 - 150	30.5 - 45.7	55 - 60	120	36.6
130	39.6	75	70 - 120	21.3 - 36.6	35 - 50	70	21.3	35 - 50	130	39.6
130	39.6	80	130 - 170	39.6 - 51.8	50 - 60	80 - 140	24.4 - 42.7	55 - 60	130	39.6
140	42.7	75	70 - 110	21.3 - 33.5	35 - 50			35 - 50	140	42.7
140	42.7	80	120 - 170	36.6 - 51.8	50 - 60	70 - 120	21.3 - 36.6	55 - 60	140	42.7
150	45.7	75	70 - 90	21.3 - 27.4	35 - 50			35 - 50	150	45.7
150	45.7	80	100 - 160	30.5 - 48.8	50 - 60	70 - 90	21.3 - 27.4	50 - 60	150	45.7
160	48.8	75	70 - 80	21.3 - 24.4	35 - 50			35 - 50	160	48.8
160	48.8	80	90 - 150	27.4 - 45.7	50 - 60	70 - 80	21.3 - 24.4	50 - 60	160	48.8
170	51.8	75	70	21.3	35 - 50			35 - 50	170	51.8
170	51.8	80	80 - 160	24.4 - 48.8	50 - 60	70 - 130	21.3 - 39.6	50 - 60	170	51.8
180	54.9	80	70 - 160	21.3 - 48.8	50 - 60	70 - 120	21.3 - 36.6	50 - 60	180	54.9

* Load blocks must be suspended beneath boom and luffing jib.

Maximum Allowable Travel Specifications

777T

Boom No. 78T With Heavy Lift Top
Luffing Jib No. 139

Machine Travel Uphill Without Load - Upper Facing Rear										
95,400 Lb. (43 270 kg) Counterweight With 25,000 Lb. (11 340 kg) Front Bumper Counterweight										
Boom Length		Boom Angle Degrees	0-1% Uphill Grade			2-5% Uphill Grade			Boom Length	
			Luffing Jib Lengths		Luffing Jib Angle	Luffing Jib Lengths		Luffing Jib Angle		
Ft.	Meters		Ft.	Meters	Degrees	Ft.	Meters	Degrees	Ft.	Meters
60	18.3	70	70 - 120*	21.3 - 36.6*	35 - 50	100 - 150*	30.5 - 45.7*	35 - 50	60	18.3
60	18.3	75	130 - 170	39.6 - 51.8	35 - 50	160 - 170	48.8 - 51.8	35 - 50	60	18.3
70	21.3	70	70 - 110*	21.3 - 33.5*	35 - 50	70 - 150*	21.3 - 45.7*	35 - 50	70	21.3
70	21.3	75	120 - 170	36.6 - 51.8	35 - 50	160 - 170	48.8 - 51.8	35 - 50	70	21.3
80	24.4	70	70 - 90	21.3 - 27.4	35 - 50	120 - 150	36.6 - 45.7	35 - 50	80	24.4
80	24.4	75	100 - 170	30.5 - 51.8	35 - 50	160 - 170	48.8 - 51.8	35 - 50	80	24.4
90	27.4	70	70 - 80	21.3 - 24.4	35 - 50	110 - 140	33.5 - 42.7	35 - 50	90	27.4
90	27.4	75	90 - 160	27.4 - 48.8	35 - 50	150 - 160	45.7 - 48.8	35 - 50	90	27.4
90	27.4	80	170	51.8	50 - 60			50 - 60	90	27.4
100	30.5	70	70	21.3	35 - 50	70 - 130*	21.3 - 39.6*	35 - 50	100	30.5
100	30.5	75	80 - 150	24.4 - 45.7	35 - 50	140 - 150	42.7 - 45.7	35 - 50	100	30.5
100	30.5	80	160 - 170	48.8 - 51.8	50 - 60			50 - 60	100	30.5
110	33.5	75	70 - 140	21.3 - 42.7	35 - 50	130 - 140	39.6 - 42.7	35 - 50	110	33.5
110	33.5	80	150 - 170	45.7 - 51.8	50 - 60			50 - 60	110	33.5
120	36.6	75	70 - 130	21.3 - 39.6	35 - 50	130	39.6	35 - 50	120	36.6
120	36.6	80	140 - 170	42.7 - 51.8	50 - 60			50 - 60	120	36.6
130	39.6	75	70 - 120	21.3 - 36.6	35 - 50	120	36.6	35 - 50	130	39.6
130	39.6	80	130 - 170	39.6 - 51.8	50 - 60			50 - 60	130	39.6
140	42.7	75	70 - 120	21.3 - 36.6	35 - 50	110 - 120	33.5 - 36.6	35 - 50	140	42.7
140	42.7	80	130 - 170	39.6 - 51.8	50 - 60			50 - 60	140	42.7
150	45.7	75	70 - 100	21.3 - 30.5	35 - 50	100	30.5	35 - 50	150	45.7
150	45.7	80	110 - 170	33.5 - 51.8	50 - 60			50 - 60	150	45.7
160	48.8	75	70 - 90	21.3 - 27.4	35 - 50	90	27.4	35 - 50	160	48.8
160	48.8	80	100 - 160	30.5 - 48.8	50 - 60			50 - 60	160	48.8
170	51.8	75	70 - 80	21.3 - 24.4	35 - 50	80	24.4	35 - 50	170	51.8
170	51.8	80	90 - 160	27.4 - 48.8	50 - 60			50 - 60	170	51.8
180	54.9	80	70 - 160	21.3 - 48.8	50 - 60			50 - 60	180	54.9

* Load blocks must be suspended beneath boom and luffing jib.

Maximum Allowable Travel Specifications

777T

Boom No. 78T With Heavy Lift Top
Luffing Jib No. 139

Machine Travel Downhill Without Load - Upper Facing Rear										
95,400 Lb. (43 270 kg) Counterweight Without Front Bumper Counterweight										
Boom Length		Boom Angle Degrees	0-1% Downhill Grade			2-5% Downhill Grade			Boom Length	
			Luffing Jib Lengths		Luffing Jib Angle Degrees	Luffing Jib Lengths		Luffing Jib Angle Degrees		
Ft.	Meters	Degrees	Ft.	Meters	Degrees	Ft.	Meters	Degrees	Ft.	Meters
60	18.3		70 - 130	21.3 - 39.6		70 - 100	21.3 - 30.5		60	18.3
60	18.3	80	140 - 170	42.7 - 51.8	50 - 60	110 - 140	33.5 - 42.7	50 - 60	60	18.3
70	21.3	75	70 - 120	21.3 - 36.6	35 - 50	70 - 90	21.3 - 27.4	35 - 50	70	21.3
70	21.3	80	130 - 170	39.6 - 51.8	50 - 60	100 - 130	30.5 - 39.6	50 - 60	70	21.3
80	24.4	75	70 - 110	21.3 - 33.5	35 - 50	70 - 80	21.3 - 24.4	35 - 50	80	24.4
80	24.4	80	120 - 160	36.6 - 48.8	50 - 60	90 - 120	27.4 - 36.6	50 - 60	80	24.4
90	27.4	75	70 - 100	21.3 - 30.5	35 - 50	70	21.3	35 - 50	90	27.4
90	27.4	80	110 - 150	33.5 - 45.7	50 - 60	80 - 110	24.4 - 33.5	50 - 60	90	27.4
100	30.5	75	70 - 90	21.3 - 27.4	35 - 50	70 - 90	21.3 - 27.4	35 - 50	100	30.5
100	30.5	80	100 - 140	30.5 - 42.7	50 - 60	70 - 90	21.3 - 27.4	50 - 60	100	30.5
110	33.5	75	70 - 80	21.3 - 24.4	35 - 50	70 - 80	21.3 - 24.4	35 - 50	110	33.5
110	33.5	80	90 - 140	27.4 - 42.7	50 - 60	70 - 80	21.3 - 24.4	50 - 60	110	33.5
120	36.6	75	70	21.3	35 - 50	70	21.3	35 - 50	120	36.6
120	36.6	80	80 - 130	24.4 - 39.6	50 - 60	70	21.3	50 - 60	120	36.6
130	39.6	80	70 - 120	21.3 - 36.6	50 - 60			50 - 60	130	39.6
140	42.7	80	70 - 110	21.3 - 33.5	50 - 60			50 - 60	140	42.7
150	45.7	80	70 - 90	21.3 - 27.4	50 - 60			50 - 60	150	45.7

Maximum Allowable Travel Specifications

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Boom No. 78T With Heavy Lift Top
Luffing Jib No. 139

Machine Travel Uphill Without Load - Upper Facing Rear										
95,400 Lb. (43 270 kg) Counterweight Without Front Bumper Counterweight										
Boom Length		Boom Angle Degrees	0-1% Uphill Grade			2-5% Uphill Grade			Boom Length	
			Luffing Jib Lengths		Luffing Jib Angle Degrees	Luffing Jib Lengths		Luffing Jib Angle Degrees		
Ft.	Meters	Degrees	Ft.	Meters	Degrees	Ft.	Meters	Degrees	Ft.	Meters
60	18.3		70 - 130	21.3 - 39.6		70 - 130	21.3 - 39.6		60	18.3
60	18.3	80	140 - 170	42.7 - 51.8	50 - 60	140 - 170	42.7 - 51.8	50 - 60	60	18.3
70	21.3	75	70 - 130	21.3 - 39.6	35 - 50	70 - 130	21.3 - 39.6	35 - 50	70	21.3
70	21.3	80	140 - 170	42.7 - 51.8	50 - 60	140 - 170	42.7 - 51.8	50 - 60	70	21.3
80	24.4	75	70 - 120	21.3 - 36.6	35 - 50	70 - 120	21.3 - 36.6	35 - 50	80	24.4
80	24.4	80	130 - 170	39.6 - 51.8	50 - 60	130 - 170	39.6 - 51.8	50 - 60	80	24.4
90	27.4	75	70 - 110	21.3 - 33.5	35 - 50	70 - 110	21.3 - 33.5	35 - 50	90	27.4
90	27.4	80	120 - 160	36.6 - 48.8	50 - 60	120 - 160	36.6 - 48.8	50 - 60	90	27.4
100	30.5	75	70 - 100	21.3 - 30.5	35 - 50	70 - 110	21.3 - 33.5	35 - 50	100	30.5
100	30.5	80	110 - 160	33.5 - 48.8	50 - 60	120 - 160	36.6 - 48.8	50 - 60	100	30.5
110	33.5	75	70 - 90	21.3 - 27.4	35 - 50	70 - 90	21.3 - 27.4	35 - 50	110	33.5
110	33.5	80	100 - 140	30.5 - 42.7	50 - 60	100 - 140	30.5 - 42.7	50 - 60	110	33.5
120	36.6	75	70 - 80	21.3 - 24.4	35 - 50	70 - 80	21.3 - 24.4	35 - 50	120	36.6
120	36.6	80	90 - 140	27.4 - 42.7	50 - 60	90 - 140	27.4 - 42.7	50 - 60	120	36.6
130	39.6	75	70	21.3	35 - 50	70	21.3	35 - 50	130	39.6
130	39.6	80	80 - 130	24.4 - 39.6	50 - 60	80 - 130	24.4 - 39.6	50 - 60	130	39.6
140	42.7	80	70 - 120	21.3 - 36.6	50 - 60	80 - 120	24.4 - 36.6	50 - 60	140	42.7
150	45.7	80	70 - 120	21.3 - 36.6	50 - 60	90 - 120	27.4 - 36.6	50 - 60	150	45.7

Maximum Allowable Travel Specifications

777T

Boom No. 78T With Heavy Lift Top
Luffing Jib No. 139

Machine Travel Downhill Without Load - Upper Facing Front										
95,400 Lb. (43 270 kg) Counterweight With 25,000 Lb. (11 340 kg) Front Bumper Counterweight										
Boom Length		Boom Angle	0-1% Downhill Grade			2-5% Downhill Grade			Boom Length	
			Luffing Jib Lengths		Luffing Jib Angle	Luffing Jib Lengths		Luffing Jib Angle		
Ft.	Meters	Degrees	Ft.	Meters	Degrees	Ft.	Meters	Degrees	Ft.	Meters
60	18.3	70	70 - 110*	21.3 - 33.5*	35 - 50	140 - 150	42.7 - 45.7	35 - 50	60	18.3
60	18.3	75	120 - 170	36.6 - 51.8	35 - 50	160 - 170	48.8 - 51.8	35 - 50	60	18.3
70	21.3	70	70 - 100*	21.3 - 30.5*	35 - 50	130 - 140	39.6 - 42.7	35 - 50	70	21.3
70	21.3	75	110 - 170	33.5 - 51.8	35 - 50	150 - 170	45.7 - 51.8	35 - 50	70	21.3
80	24.4	70	70 - 100	21.3 - 30.5	35 - 50	120 - 130	36.6 - 39.6	35 - 50	80	24.4
80	24.4	75	100 - 160	30.5 - 48.8	35 - 50	140 - 160	42.7 - 48.8	35 - 50	80	24.4
80	24.4	80	170	51.8	50 - 60			50 - 60	80	24.4
90	27.4	70	70 - 80	21.3 - 24.4	35 - 50	100 - 130	30.5 - 39.6	35 - 50	90	27.4
90	27.4	75	90 - 150	27.4 - 45.7	35 - 50	140 - 150	42.7 - 45.7	35 - 50	90	27.4
90	27.4	80	160 - 170	48.8 - 51.8	50 - 60			50 - 60	90	27.4
100	30.5	75	70 - 150	21.3 - 45.7	35 - 50	130 - 150	39.6 - 45.7	35 - 50	100	30.5
100	30.5	80	160 - 170	48.8 - 51.8	50 - 60			50 - 60	100	30.5
110	33.5	75	70 - 130	21.3 - 39.6	35 - 50	120 - 130	36.6 - 39.6	35 - 50	110	33.5
110	33.5	80	140 - 170	42.7 - 51.8	50 - 60			50 - 60	110	33.5
120	36.6	75	70 - 130	21.3 - 39.6	35 - 50	120 - 130	36.6 - 39.6	35 - 50	120	36.6
120	36.6	80	140 - 170	42.7 - 51.8	50 - 60			50 - 60	120	36.6
130	39.6	75	70 - 120	21.3 - 36.6	35 - 50	110 - 120	33.5 - 36.6	35 - 50	130	39.6
130	39.6	80	130 - 170	39.6 - 51.8	50 - 60			50 - 60	130	39.6
140	42.7	75	70 - 110	21.3 - 33.5	35 - 50	100 - 110	30.5 - 33.5	35 - 50	140	42.7
140	42.7	80	120 - 170	36.6 - 51.8	50 - 60			50 - 60	140	42.7
150	45.7	75	70 - 90	21.3 - 27.4	35 - 50	80 - 90	24.4 - 27.4	35 - 50	150	45.7
150	45.7	80	100 - 170	30.5 - 51.8	55 - 60			50 - 60	150	45.7
160	48.8	75	70 - 80	21.3 - 24.4	35 - 50	70 - 80	21.3 - 24.4	35 - 50	160	48.8
160	48.8	80	90 - 170 ¹	27.4 - 51.8 ¹	55 - 60			50 - 60	160	48.8
170	51.8	75	70	21.3	35 - 50	70	21.3	35 - 50	170	51.8
170	51.8	80	80 - 170	24.4 - 51.8	50 - 60			50 - 60	170	51.8
180	54.9	80	70 - 170	21.3 - 51.8	50 - 60			50 - 60	180	54.9

* Load blocks must be suspended beneath boom and luffing jib.

¹ 160 Ft. (45.7m) Boom + 170 Ft. (51.8m) Luffing Jib requires 58 - 60 Degree Luffing Jib Angle.

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Luffing Jib No. 139

Machine Travel Uphill Without Load - Upper Facing Front										
95,400 Lb. (43 270 kg) Counterweight With 25,000 Lb. (11 340 kg) Front Bumper Counterweight										
Boom Length		Boom Angle Degrees	0-1% Uphill Grade			2-5% Uphill Grade			Boom Length	
			Luffing Jib Lengths		Luffing Jib Angle Degrees	Luffing Jib Lengths		Luffing Jib Angle Degrees		
Ft.	Meters	Degrees	Ft.	Meters	Degrees	Ft.	Meters	Degrees	Ft.	Meters
60	18.3		70 - 100*	21.3 - 30.5*					60	18.3
60	18.3	75	110 - 170	33.5 - 51.8	35 - 50	110 - 150	33.5 - 45.7	35 - 50	60	18.3
70	21.3	70	70 - 90*	21.3 - 27.4*	35 - 50			35 - 50	70	21.3
70	21.3	75	100 - 170	30.5 - 51.8	35 - 50	100 - 140	30.5 - 42.7	35 - 50	70	21.3
80	24.4	70	70 - 80	21.3 - 24.4	35 - 50			35 - 50	80	24.4
80	24.4	75	90 - 160	27.4 - 48.8	35 - 50	90 - 130	27.4 - 39.6	35 - 50	80	24.4
80	24.4	80	170	51.8	50 - 60	140 - 170	42.7 - 51.8	50 - 60	80	24.4
90	27.4	70	70	21.3	35 - 50			35 - 50	90	27.4
90	27.4	75	80 - 150	24.4 - 45.7	35 - 50	80 - 120	24.4 - 36.6	35 - 50	90	27.4
90	27.4	80	160 - 170	48.8 - 51.8	50 - 60	130 - 160	39.6 - 48.8	50 - 60	90	27.4
100	30.5	75	70 - 130	21.3 - 39.6	35 - 50	70 - 110	21.3 - 33.5	35 - 50	100	30.5
100	30.5	80	140 - 170	42.7 - 51.8	50 - 60	120 - 150	36.6 - 45.7	50 - 60	100	30.5
110	33.5	75	70 - 130	21.3 - 39.6	35 - 50	70 - 90	21.3 - 27.4	35 - 50	110	33.5
110	33.5	80	140 - 170	42.7 - 51.8	50 - 60			50 - 60	110	33.5
120	36.6	75	70 - 120	21.3 - 36.6	35 - 50	70 - 80	21.3 - 24.4	35 - 50	120	36.6
120	36.6	80	130 - 170	39.6 - 51.8	50 - 60			50 - 60	120	36.6
130	39.6	75	70 - 110	21.3 - 33.5	35 - 50			35 - 50	130	39.6
130	39.6	80	120 - 170	36.6 - 51.8	50 - 60			50 - 60	130	39.6
140	42.7	75	70 - 100	21.3 - 30.5	35 - 50			35 - 50	140	42.7
140	42.7	80	110 - 170	33.5 - 51.8	55 - 60			50 - 60	140	42.7
150	45.7	75	70 - 80	21.3 - 24.4	35 - 50			35 - 50	150	45.7
150	45.7	80	90 - 160	27.4 - 48.8	55 - 60			50 - 60	150	45.7
160	48.8	75	70	21.3	35 - 50			35 - 50	160	48.8
160	48.8	80	80 - 150	24.4 - 45.7	55 - 60			50 - 60	160	48.8
170	51.8	80	70 - 170	21.3 - 51.8	50 - 60			50 - 60	170	51.8
180	54.9	80	70 - 170	21.3 - 51.8	50 - 60			50 - 60	180	54.9

* Load blocks must be suspended beneath boom and luffing jib.

Maximum Allowable Travel Specifications

777T

Boom No. 78T With Heavy Lift Top
Luffing Jib No. 139

Machine Travel Downhill Without Load - Upper Facing Front										
95,400 Lb. (43 270 kg) Counterweight Without Front Bumper Counterweight										
Boom Length		Boom Angle Degrees	0-1% Downhill Grade			2-5% Downhill Grade			Boom Length	
			Luffing Jib Lengths		Luffing Jib Angle Degrees	Luffing Jib Lengths		Luffing Jib Angle Degrees		
Ft.	Meters		Ft.	Meters		Ft.	Meters		Ft.	Meters
110	33.5	75	150 - 170	45.7 - 51.8	35 - 50	Not Allowed			110	33.5
120	36.6	75	140 - 170	42.7 - 51.8	35 - 50				120	36.6
130	39.6	75	130 - 170	39.6 - 51.8	35 - 50				130	39.6
140	42.7	75	120 - 170	36.6 - 51.8	35 - 50				140	42.7
150	45.7	75	100 - 170	30.5 - 51.8	35 - 50				150	45.7

Machine Travel Uphill Without Load - Upper Facing Front										
95,400 Lb. (43 270 kg) Counterweight Without Front Bumper Counterweight										
Boom Length		Boom Angle Degrees	0-1% Uphill Grade			2-5% Uphill Grade			Boom Length	
			Luffing Jib Lengths		Luffing Jib Angle Degrees	Luffing Jib Lengths		Luffing Jib Angle Degrees		
Ft.	Meters		Ft.	Meters		Ft.	Meters		Ft.	Meters
90	27.4	75	160 - 170	48.8 - 51.8	35 - 50	Not Allowed			90	27.4
100	30.5	75	150 - 170	45.7 - 51.8	35 - 50				100	30.5
110	33.5	75	140 - 170	42.7 - 51.8	35 - 50				110	33.5
120	36.6	75	130 - 170	39.6 - 51.8	35 - 50				120	36.6
130	39.6	75	120 - 160	36.6 - 48.8	35 - 50				130	39.6
140	42.7	75	110 - 150	33.5 - 45.7	35 - 50				140	42.7
150	45.7	75	90 - 140	27.4 - 42.7	35 - 50				150	45.7