

# Maximum Allowable Travel Specifications

Boom No. 78T With Heavy Lift Top  
Luffing Jib No. 139  
Fixed Jib No. 138

## Jobsite Travel

777T must be equipped with 95,400 Lb. (43 270 kg) crane counterweight and 25,000 Lb. (11 340 kg) front bumper counterweight.

### 1. Machine Travel With Load Not Allowed With Luffing Jib And Fixed Jib Attached

### 2. Machine Travel Without Load

- Set boom to 83 degree boom angle ( $\pm 1$  degree).
- Load blocks and/or hook and weight ball may be suspended below luffing jib point and fixed jib point. Total suspended weight beneath luffing jib point must not exceed 3,000 Lbs. (1 360 kg). Total suspended weight beneath fixed jib point must not exceed 1,250 Lbs. (570 kg).
- Machine to travel on a firm and uniformly supporting surface with crane upperworks in-line with carrier and grade at all times, 116 PSI (800 kPa) minimum tire pressure and  $\frac{1}{4}$  MPH (0.4 kms/hr) maximum travel speed. Grade in direction of travel must not exceed 3 percent (1.7 degrees). Side-to-side grade must not exceed 1 percent (0.5 degrees) measured at boom hinge pins (don't exceed when turning on grade).
- See table below for grade vs. angle when traveling. Adjust boom for desired grade to be traveled and set 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					
Percent Grade	Angle	83 Boom Angle			
		Upper Facing Rear		Upper Facing Front	
		Downhill	Uphill	Downhill	Uphill
1	0.5°	82.5°	83.5°	83.5°	82.5°
2	1.1°	81.9°	84.1°	84.1°	81.9°
3	1.7°	81.3°	84.7°	84.7°	81.3°

- Warning:** Travel prohibited for boom lengths, luffing jib lengths, fixed jib lengths and boom and luffing jib angles not shown in tables. *Machine could tip.*
- Lower boom point assembly, auxiliary drum, wire rope guides in 17.5 Ft. (5.3m) insert and one sheave in luffing 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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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		83 Degree Boom Angle			83 Degree Boom Angle			Boom Length	
		0-1% Downhill Grade			2-3% Downhill Grade				
		Luffing Jib Lengths (includes all fixed jib lengths)		Luffing Jib Angle Degrees	Luffing Jib Lengths (includes all fixed jib lengths)		Luffing Jib Angle Degrees		
Ft.	Meters	Ft.	Meters		Ft.	Meters		Ft.	Meters
140	42.7	140 - 160	42.7 - 48.8	50 - 60	140 - 150	42.7 - 45.7	55 - 60	140	42.7
140	42.7	170	51.8	55 - 60				140	42.7
160	48.8	140 - 150	42.7 - 45.7	50 - 60				160	48.8
160	48.8	160	48.8	55 - 60				160	48.8
160	48.8	170	51.8	57 - 60				160	48.8
170	51.8	140 - 150	42.7 - 45.7	50 - 60				170	51.8
170	51.8	160	48.8	55 - 60				170	51.8
170	51.8	170	51.8	56 - 60				170	51.8
180	54.9	140	42.7	50 - 60				180	54.9
180	54.9	150 - 160	45.7 - 48.8	55 - 60				180	54.9
180	54.9	170	51.8	58 - 60				180	54.9

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		83 Degree Boom Angle			83 Degree Boom Angle			Boom Length	
		0-1% Uphill Grade			2-3% Uphill Grade				
		Luffing Jib Lengths (includes all fixed jib lengths)		Luffing Jib Angle Degrees	Luffing Jib Lengths (includes all fixed jib lengths)		Luffing Jib Angle Degrees		
Ft.	Meters	Ft.	Meters		Ft.	Meters		Ft.	Meters
140	42.7	140 - 170	42.7 - 51.8	50 - 60	160	48.8	50 - 55	140	42.7
140	42.7				170	51.8	50 - 60	140	42.7
160	48.8	140 - 160	42.7 - 48.8	50 - 60	160	48.8	50 - 55	160	48.8
160	48.8	170	51.8	55 - 60	170	51.8	50 - 60	160	48.8
170	51.8	140 - 160	42.7 - 48.8	50 - 60	160	48.8	50 - 55	170	51.8
170	51.8	170	51.8	55 - 60	170	51.8	50 - 60	170	51.8
180	54.9	140 - 160	42.7 - 48.8	50 - 60	160	48.8	50 - 55	180	54.9
180	54.9	170	51.8	55 - 60	170	51.8	50 - 60	180	54.9

# Maximum Allowable Travel Specifications

**Boom No. 78T With Heavy Lift Top**  
**Luffing Jib No. 139**  
**Fixed Jib No. 138**

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		83 Degree Boom Angle			83 Degree Boom Angle			Boom Length	
		0-1% Downhill Grade			2-3% Downhill Grade				
		Luffing Jib Lengths (includes all fixed jib lengths)		Luffing Jib Angle	Luffing Jib Lengths (includes all fixed jib lengths)		Luffing Jib Angle		
Ft.	Meters	Ft.	Meters		Degrees	Ft.		Meters	Degrees
140	42.7	140 - 160	42.7 - 48.8	50 - 60	140 - 150	42.7 - 45.7	50 - 55	140	42.7
140	42.7	170	51.8	55 - 60	160 - 170	48.8 - 51.8	50 - 60	140	42.7
160	48.8	140 - 150	42.7 - 45.7	50 - 60	140	42.7	50 - 58	160	48.8
160	48.8	160	48.8	55 - 60	150 - 170	45.7 - 51.8	50 - 60	160	48.8
160	48.8	170	51.8	58 - 60				160	48.8
170	51.8	140 - 150	42.7 - 45.7	50 - 60	140	42.7	50 - 55	170	51.8
170	51.8	160	48.8	55 - 60	150 - 170	45.7 - 51.8	50 - 60	170	51.8
170	51.8	170	51.8	57 - 60				170	51.8
180	54.9	140	42.7	50 - 60	140	42.7	50 - 59	180	54.9
180	54.9	150	45.7	55 - 60	150 - 170	45.7 - 51.8	50 - 60	180	54.9
180	54.9	160	48.8	56 - 60				180	54.9

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		83 Degree Boom Angle			83 Degree Boom Angle			Boom Length	
		0-1% Uphill Grade			2-3% Uphill Grade				
		Luffing Jib Lengths (includes all fixed jib lengths)		Luffing Jib Angle Degrees	Luffing Jib Lengths (includes all fixed jib lengths)		Luffing Jib Angle Degrees		
Ft.	Meters	Ft.	Meters		Ft.	Meters		Ft.	Meters
140	42.7	140 - 150	42.7 - 45.7	50 - 60	Not Allowed			140	42.7
140	42.7	160	48.8	55 - 60				140	42.7
140	42.7	170	51.8	58 - 60				140	42.7
160	48.8	140 - 150	42.7 - 45.7	55 - 60				160	48.8
160	48.8							160	48.8
170	51.8	140	42.7	50 - 60				170	51.8
170	51.8	150	45.7	55 - 60				170	51.8
180	54.9	140	42.7	55 - 60				180	54.9
180	54.9	150	45.7	57 - 60				180	54.9