

Maximum Allowable Travel Specifications

14000 SERIES 1 & 2

Boom No. 76
Jib No. 134 with 12 ft 6 in. (3 810 mm) Strut

Jobsite Travel

14000 SERIES 1 must be equipped with 127,000 lb (57 610 kg) crane counterweight and 0 lb (0 kg) carbody counterweight; 14000 SERIES 2 must be equipped with 168,000 lb (76 200 kg) crane counterweight and 53,000 lb (24 040 kg) carbody counterweight. Refer to Wind Conditions chart for maximum wind speed for various boom and jib lengths and capacity charts for maximum boom and jib lengths lifted unassisted.

1. Machine Travel With Load

- A. Machine can swing and travel with 360 degree rating.
- B. 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.
- 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 and rigging.

2. Machine Travel Without Load

- A. Load blocks and/or hook and weight balls may be suspended beneath lower and upper boom point, jib point, or tied off to machine. Total combined suspended weight beneath lower and upper boom points must not exceed 9,000 lb (4 080 kg). Total suspended weight beneath jib point must not exceed 2,000 lbs (910 kg).
- B. Machine to travel on a firm and uniformly supporting surface. Travel allowed with 360 degree swing up to 1 percent (0.5 degrees) grade; crane upperworks must be in-line with crawlers and grade when grade exceeds 1 percent. 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. Refer to tables 1 thru 4 on pages 2 thru 4 for boom angle, boom length and direction for various grades. Adjust boom within boom angle range shown in table 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.
- D. Do not exceed 2 percent (1.1 degrees) side-to-side grade at boom hinge pins when cutting (turning on grade).
- E. Boom lengths shown in tables 1 and 2 on pages 2 and 3 do not include jib. Boom lengths shown in tables 3 and 4 on page 4 include all jib lengths and offset angles.
- F. **Warning:** Travel prohibited for boom angle range not shown in tables 1 thru 4 on page 2 thru 4. *Crane could tip.*

Percent Grade Vs. Angle In Degrees	
Percent Grade	Angle
1	0.5
10	5.7
20	11.3
30	16.7

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Table 1: Boom No.76, SERIES 1

MACHINE TRAVEL WITHOUT LOAD					
Boom Length (not including jib)		Boom Angle Range in Degrees			
		Percent Grade			
Feet	Meters	0 - 1%	2 - 10%	11 - 20%	21 - 30%
BOOM FACING DOWNHILL OR UPHILL					
65.6	20,0	30 - 72	30 - 55	—	—
75.5	23,0	30 - 72	30 - 60	30 - 40	—
85.3	26,0	30 - 72	30 - 66	30 - 50	30 - 35
95.1	29,0	30 - 72	30 - 66	30 - 55	30 - 40
105.0	32,0	30 - 72	30 - 66	30 - 55	30 - 40
114.8	35,0	30 - 72	30 - 66	30 - 60	30 - 45
124.7	38,0	30 - 72	30 - 66	30 - 60	30 - 50
134.5	41,0	30 - 72	30 - 66	30 - 60	40 - 50
144.4	44,0	30 - 72	30 - 66	40 - 60	50 - 55
154.2	47,0	30 - 72	35 - 66	45 - 60	—
164.0	50,0	35 - 72	45 - 66	55 - 60	—
173.9	53,0	40 - 72	45 - 66	—	—
183.7	56,0	45 - 72	50 - 66	—	—
193.6	59,0	50 - 72	55 - 66	—	—
203.4	62,0	50 - 72	60 - 66	—	—
213.3	65,0	55 - 72	60 - 66	—	—
223.1	68,0	60 - 72	65 - 66	—	—
232.9	71,0	60 - 72	65 - 66	—	—

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Table 2: Boom No. 76, SERIES 2

MACHINE TRAVEL WITHOUT LOAD					
Boom Length (not including jib)		Boom Angle Range in Degrees			
		Percent Grade			
Feet	Meters	0 - 1%	2 - 10%	11 - 20%	21 - 30%
BOOM FACING DOWNHILL OR UPHILL					
65.6	20,0	30 - 72	30 - 50	—	—
75.5	23,0	30 - 72	30 - 55	30 - 35	—
85.3	26,0	30 - 72	30 - 60	30 - 45	—
95.1	29,0	30 - 72	30 - 66	30 - 50	—
105.0	32,0	30 - 72	30 - 66	30 - 55	30 - 40
114.8	35,0	30 - 72	30 - 66	30 - 55	30 - 40
124.7	38,0	30 - 72	30 - 66	30 - 55	30 - 45
134.5	41,0	30 - 72	30 - 66	30 - 60	30 - 50
144.4	44,0	30 - 72	30 - 66	30 - 60	30 - 50
154.2	47,0	30 - 72	30 - 66	30 - 60	30 - 50
164.0	50,0	30 - 72	30 - 66	30 - 60	40 - 55
173.9	53,0	30 - 72	30 - 66	35 - 60	50 - 55
183.7	56,0	30 - 72	30 - 66	45 - 60	—
193.6	59,0	30 - 72	40 - 66	50 - 60	—
203.4	62,0	35 - 72	45 - 66	55 - 60	—
213.3	65,0	40 - 72	50 - 66	—	—
223.1	68,0	45 - 72	50 - 66	—	—
232.9	71,0	50 - 72	55 - 66	—	—
242.8	74,0	50 - 72	55 - 66	—	—
252.6	77,0	55 - 72	60 - 66	—	—
262.5	80,0	55 - 72	65 - 66	—	—
272.3	83,0	60 - 72	65 - 66	—	—
282.2	86,0	60 - 72	65 - 66	—	—

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Table 3: Boom No.76 Jib No. 134, SERIES 1

MACHINE TRAVEL WITHOUT LOAD					
Boom Length (including all jib lengths and offsets)		Boom Angle Range in Degrees			
		Percent Grade			
Feet	Meters	0 - 1%	2 - 10%	11 - 20%	21 - 30%
BOOM FACING DOWNHILL OR UPHILL					
105.0	32,0	50 - 72	50 - 66	50 - 60	—
114.8	35,0	50 - 72	50 - 66	50 - 60	—
124.7	38,0	50 - 72	50 - 66	55 - 60	—
134.5	41,0	50 - 72	50 - 66	—	—
144.4	44,0	50 - 72	55 - 66	—	—
154.2	47,0	50 - 72	60 - 66	—	—
164.0	50,0	55 - 72	60 - 66	—	—
173.9	53,0	55 - 72	—	—	—
183.7	56,0	60 - 72	—	—	—
193.6	59,0	60 - 72	—	—	—
203.4	62,0	65 - 72	—	—	—

Table 4: Boom No. 76, Jib No. 134, SERIES 2

MACHINE TRAVEL WITHOUT LOAD					
Boom Length (including all jib lengths and offsets)		Boom Angle Range in Degrees			
		Percent Grade			
Feet	Meters	0 - 1%	2 - 10%	11 - 20%	21 - 30%
BOOM FACING DOWNHILL OR UPHILL					
105.0	32,0	50 - 72	50 - 66	50 - 60	—
114.8	35,0	50 - 72	50 - 66	50 - 60	50 - 52
124.7	38,0	50 - 72	50 - 66	50 - 60	50 - 54
134.5	41,0	50 - 72	50 - 66	50 - 60	50 - 55
144.4	44,0	50 - 72	50 - 66	50 - 60	—
154.2	47,0	50 - 72	50 - 66	55 - 60	—
164.0	50,0	50 - 72	50 - 66	55 - 60	—
173.9	53,0	50 - 72	50 - 66	—	—
183.7	56,0	50 - 72	55 - 66	—	—
193.6	59,0	50 - 72	60 - 66	—	—
203.4	62,0	55 - 72	60 - 66	—	—
213.3	65,0	55 - 72	65 - 66	—	—
223.1	68,0	60 - 72	—	—	—
232.9	71,0	60 - 72	—	—	—
242.8	74,0	60 - 72	—	—	—
252.6	77,0	65 - 72	—	—	—