

Maximum Allowable Travel Specifications

MLC165-1

Luffing Jib No. 135
Boom No. 74A

Jobsite Travel

MLC165-1 SERIES 1 must be equipped with 46 000 kg (101,400 lb) crane counterweight and 0 kg (0 lb) carbody counterweight; MLC165-1 SERIES 2 must be equipped with 56 000 kg (123,400 lb) crane counterweight and 20 450 kg (45,100 lb) carbody counterweight. Refer to Wind Conditions chart for maximum wind speed for various boom and luffing jib lengths. Refer to luffing jib raising procedure for maximum boom and luffing 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 13 mm in 3 m (1/2 in. in 10 ft).
- 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, luffing jib, and rigging.

2. Machine Travel Without Load

- A. Position **boom to 80 degree boom angle** (plus or minus 1 degree) and position **luffing jib at 50 to 55 degrees** above horizontal. Grade in direction of travel must not exceed 12 percent (6.8 degrees).
- B. Load blocks and/or hook and weight balls may be suspended beneath boom and luffing jib points or tied off to machine. Total suspended weight beneath boom point must not exceed 3 400 kg (7,500 lb). Total suspended weight beneath luffing jib point must not exceed 1 360 kg (3,000 lb).
- C. 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. Side-to-side grade must not exceed 1 percent (0.5 degrees) measured at boom hinge pins.
- D. Refer to table below for grade vs. angle when traveling. When traveling on **uphill grade, lower boom** the corresponding degrees for grade to be traveled. When traveling on **downhill grade, raise boom** the corresponding degrees for grade to be traveled.

Do not exceed 1 percent (0.5 degrees) side-to-side grade at boom hinge pins when cutting (turning on grade).

Percent Grade Vs. Angle In Degrees	
Percent Grade	Angle
1	0.5
3	1.7
6	3.4
9	5.1
12	6.8