

MANITOWOC ENGINEERING CO.

Division of the Manitowoc Company, Inc. Manitowoc, Wisconsin 54220



MAXIMUM ALLOWABLE TRAVEL SPECIFICATIONS

M-250 SERIES 2

FOR COMBINATIONS REQUIRING OUTSIDE ASSIST
BOOM NO. 44 WITH HEAVY LIFT TOP
AND LUFFING JIB NO. 133 OR NO. 133A

CAUTION: OUTSIDE
ASSIST REQUIRED

A. JOBSITE TRAVEL

1. MACHINE TRAVEL WITHOUT LOAD

- a. SET BOOM AT 83 DEGREE BOOM ANGLE AND SET LUFFING JIB AT 40 TO 60 DEGREES ABOVE HORIZONTAL.
- b. TRAVEL SURFACE MUST BE FIRM, LEVEL AND UNIFORMLY SUPPORTING. GRADE IN ANY DIRECTION MUST NOT EXCEED 1 PERCENT (0.5 DEGREES).
- c. LOAD BLOCK SUSPENDED BELOW LUFFING JIB POINT OR TIED OFF TO MACHINE ROTATING BED.
- d. TRAVEL WITH CRANE UPPERWORKS INLINE WITH CRAWLERS AND TRAVEL MOTORS TO REAR. MAINTAIN ONE PERCENT GRADE AT BOOM HINGE PINS WHEN CUTTING (STEERING ON GRADE). RETURN TO INLINE POSITION FOR CONTINUATION OF TRAVEL.
- e. MAXIMUM WIND SPEED FOR BOOM AND LUFFING JIB LENGTHS UP TO 350' (106.7m) IS 20 MPH (9 m/s). MAXIMUM WIND SPEED FOR BOOM AND LUFFING JIB LENGTHS OF 360' (109.7m) TO 450' (137.2m) IS 15 MPH (7 m/s). WIND SPEED MEASURED AT ELEVATION SHOWN ON CAPACITY CHART.

2. MACHINE TRAVEL WITH LOAD

- a. TRAVEL WITH CRANE UPPERWORKS INLINE WITH CRAWLERS AND TRAVEL MOTORS TO REAR. 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.
- c. SEE CAPACITY CHART FOR MAXIMUM WIND SPEED WITH VARIOUS BOOM AND LUFFING JIB COMBINATIONS.