



# Maximum Allowable Travel Specifications

**Boom No. 49A-44 With Heavy Lift Top**

**MAX-ER 400  
On 2250 or M-250**

## **A. Jobsite Travel**

### **1. MACHINE SWING AND TRAVEL WITH LOAD**

- a. Travel with crane upperworks in-line or at 90 degrees to crawlers. 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. Carry load as close to ground as possible. Stabilize load with taglines. Travel slowly and smoothly to avoid shock loading boom and rigging.
- c. Refer to operators manual for maximum wind speed for various boom lengths.
- d. Machine can swing and travel in normal manner when wheeled counterweight assembly is free of ground support.
- e. Counterweight wheels must be properly positioned before swinging or traveling machine when wheeled counterweight is contacting ground.

### **2. MACHINE SWING AND TRAVEL WITHOUT LOAD**

- a. Load block suspended below boom point or tied off to machine rotating bed.
- b. Hook and weight ball suspended below upper boom point.
- c. Position boom at 60 degree boom angle (plus or minus 1 degree).
- d. Travel with crane upperworks in-line or at 90 degrees to crawlers. Do not exceed side-to-side grade of 1 percent (0.5 degrees) at boom hinge pins when cutting (steering on grade).
- e. Machine to travel on a firm and uniformly supporting surface.
- f. For crane upperworks in-line to crawlers, grade in direction of travel must not exceed 5 percent (3 degrees). Side-to-side grade must not exceed 1 percent (0.5 degrees) measured at boom hinge pins.
- g. For crane upperworks at 90 degrees to crawlers, grade in direction of travel must not exceed 1 percent (0.5 degrees) measured at boom hinge pins. Grade must not exceed 5 percent (3 degrees) measured parallel to boom centerline.
- h. Rate of change in grade must not exceed 5 percent (3 degrees) in 50 Ft. (15.2m).
- i. Refer to operators manual for maximum wind speed with various boom lengths.
- j. Counterweight wheels must be properly positioned before swinging or traveling machine when wheeled counterweight is contacting ground.



# Maximum Allowable Travel Specifications

Boom No. 49A-44 With Heavy Lift Top

**2250 or M-250**  
**With Mast - 80 Ft. (24.4m)**

## A. Jobsite Travel

### 1. MACHINE TRAVEL WITH LOAD

- Travel with crane upperworks in-line with crawlers and travel drive to rear. Grade in any direction must not exceed 1 percent (0.5 degrees).
- 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.
- Refer to operators manual for maximum wind speed for various boom lengths.

### 2. MACHINE TRAVEL WITHOUT LOAD

- Load blocks and/or hook and weight balls may be suspended below lower boom point and upper boom point. Total combined suspended weight beneath lower and upper boom points must not exceed 11,000 Lbs. (4 990 kg).
- Travel with crane upperworks in-line with crawlers. Do not exceed side-to-side grade of 1 percent (0.5 degrees) at boom hinge pins when cutting (steering on grade). Return to in-line position for continuation of travel.
- Machine to travel on a firm and uniformly supporting surface. Grade in direction of travel should not exceed 20 percent (11.3 degrees); side-to-side grade must not exceed 2 percent (1.1 degrees) measured at boom hinge pins. See tables for boom angle and position for various grades. Adjust boom within boom angle range shown in table with machine in a level position.
- Refer to operators manual for maximum wind speed with various boom lengths.

Machine Travel Without Load - Boom Facing Downhill						
Boom Length		Boom Angle Range In Degrees				
		Percent Grade				
Feet	Meters	0%	5%	10%	15%	20%
100	30.5	30 - 72	30 - 72	39 - 72	44 - 72	52 - 72
120	36.6	43 - 72	46 - 72	53 - 72	59 - 72	62 - 72
140	42.7	57 - 72	60 - 72	64 - 72	69 - 72	*
160	48.8	62 - 72	66 - 72	70 - 72	*	**
* Boom must face uphill      **Travel condition is not allowed						

Machine Travel Without Load - Boom Facing Uphill						
Boom Length		Boom Angle Range In Degrees				
		Percent Grade				
Feet	Meters	0%	5%	10%	15%	20%
100	30.5	30 - 72	30 - 69	30 - 66	30 - 63	30 - 60
120	36.6	43 - 72	43 - 69	43 - 66	43 - 63	43 - 60
140	42.7	57 - 72	57 - 69	57 - 66	57 - 63	57 - 60
160	48.8	62 - 72	62 - 69	62 - 66	62 - 63	**
**Travel condition is not allowed						