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## WIND CONDITIONS

Model 2250T

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### TABLE OF CONTENTS

General .....	1
Operation Permitted .....	1
Rating Reductions/Operation Not Permitted .....	2

### GENERAL

Wind adversely affects lifting capacity and stability. The result could be loss of control over the load and crane, even if the load is within the crane's capacity.



#### WARNING

##### TIPPING CRANE HAZARD!

Judgment and experience of qualified operators, job planners, and supervisors must be used to compensate for affect of wind on lifted load and boom by reducing ratings, reducing operating speeds, or a combination of both.

Failing to observe this precaution can cause crane to tip or boom and/or jib to collapse. Death or serious injury to personnel can result.

Wind speed (to include wind gusts) must be monitored by job planners and supervisors.

*Beware that wind speed at boom or jib point can be greater than wind speed at ground level. Also beware that the larger the sail area of the load, the greater the wind's affect on the load.*

As a general rule, ratings and operating speeds must be reduced when:

**Wind causes load to swing forward past allowable operating radius or sideways past either boom hinge pin.**

### OPERATION PERMITTED

Operation is permitted in steady winds or wind gusts up to maximum specified in Tables 1 and 2. However, ratings must be reduced the amount given in the appropriate table when the corresponding wind speed is reached.

# RATING REDUCTIONS/ OPERATION NOT PERMITTED

**Table 1— Rating Reductions for Various Wind Speeds and Wind Gusts**
**#44A HEAVY LIFT BOOM ONLY**

Boom Length ft (m)		70-200 (21.3-61.0)	210-240 (64.0-73.2)	250-300 (76.2-91.4)
Maximum Wind Speed		Percent		
mph	m/s	Rating Reduction		
15	7	0	0	0
20	9	0	0	10
25	11	0	10	OPERATION NOT PERMITTED
30	13	0		
Above 30 mph (13 m/s)				

**Operation Not Permitted**

Operation is not permitted when wind speed is above the following limits or wind gusts above these limits are expected:

- Up to 50 mph (22 m/s) – Park crane (upper in line over rear of carrier on outriggers) with load blocks and weight balls on ground or secured and boom no higher than 70°.
- 50 mph (22 m/s) and Above – Lower boom onto blocking at ground level.

**Table 2— Rating Reductions for Various Wind Speeds and Wind Gusts**
**#44A HEAVY LIFT BOOM WITH #132 FIXED JIB**

Boom Length ft (m)		130-210 (39.6-64.0)	220-250 (67.1-76.2)	260 (79.2)	130-200 (39.6-61.0)	210-230 (64.0-70.1)	240 (73.2)
Fixed Jib Length ft (m)		40-80 (12.2-24.4)		40-60 (12.2-18.3)	100-120 (30.5-36.6)		100 (30.5)
Maximum Wind Speed		Percent Rating Reduction					
mph	m/s						
15	7	0	0	0	0	0	0
20	9	0	10	10	0	10	10
25	11	0			10		
Above 25 mph (11m/s)		OPERATION NOT PERMITTED					

For operation in winds above 20 mph (9 m/s) with boom positioned above 75°, fixed jib loads must weigh at least 4,425 lb (2 010 kg). **Fixed jib could be blown over backwards if this precaution is not observed.**

**Operation Not Permitted**

Operation is not permitted when wind speed is above the following limits or wind gusts above these limits are expected:

- Up to 50 mph (22 m/s) – Park crane (upper in line over rear of carrier on outriggers) with load blocks and weight balls on ground or secured boom no higher than 70°.
- 50 mph (22 m/s) and Above – Lower boom onto blocking at ground level.