

TABLE OF CONTENTS

General
Operation Permitted/Operation Not Permitted:
Boom
Boom with Jib

GENERAL



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

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Wind adversely affects lifting capacity and stability as shown in Figure 1. The result could be loss of control over the load and crane, even if the load is within the crane's capacity.

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

Beware that wind speed at the 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.

Manitowoc 11000-1

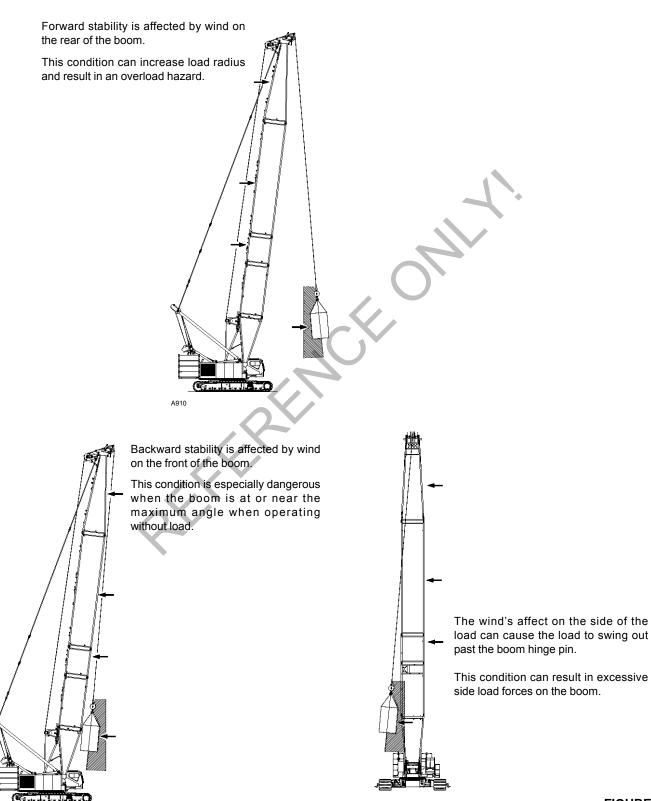


FIGURE 1

Manitowoc Cranes Manitowoc, Wisconsin 54220 U.S.A.

Boom

Operation Permitted

Operation is permitted in steady winds or gusts up to the maximum speed given in Table 1 provided the lifted load does not exceed capacity chart percentage.

Wind speed to be measured at boom point elevation.

Operation Not Permitted

Operation is not permitted when the wind speed exceeds the values listed in Table 1 for a given capacity chart percentage.

When wind exceeds 36 mph (16 m/s), lower the boom to the ground.

oom Length ft	40 - 110	120 - 160	170 - 200	
(m)	(12,2 - 33,5)	(36,6 - 48,8)	(51,8 - 61,0)	
Percent of	Maximum Wind Speed mph			
apacity Chart	(m/s)			
100	27	22.5	22.5	
	(12)	(10)	(10)	
90	36	27	22.5	
	(16)	(12)	(10)	
80	36	36	33.8	
	(16)	(16)	(14)	
70	36	36	36	
	(16)	(16)	(16)	

Operation Not Permitted above 36 mph (16 m/s)

244





Boom with Jib

Operation Permitted

Operation is permitted in steady winds or gusts up to the maximum speed given in Table 2 provided the lifted load does not exceed capacity chart percentage.

Wind speed to be measured at jib point elevation.

Operation Not Permitted

Operation is not permitted when the wind speed exceeds the values listed in Table 2 for a given capacity chart percentage.

When wind exceeds 36 mph (16 m/s), lower the boom and jib to the ground.

Boom Length ft (m)	80 - 130 (24,4 - 39,6)	140 - 170 (42,7 - 51,8)	180 - 190 (54,9 - 57,9)	
Jib Length ft (m)	(24,4 - 55,6) (42,7 - 51,8) (54,5 - 57,5) 30 - 60 (9,1 - 18,3)			
Percent of Capacity Chart	Max			
100	27 (12)	22.5 (10)	22.5 (10)	
90	36 (16)	33.8 (14)	27 (12)	
80	36 (16)	36 (16)	33.8 (14)	
70	36 (16)	36 (16)	36 (16)	

 Table 2: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages