

Wind Conditions

16000

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GENERAL



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 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 boom 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.

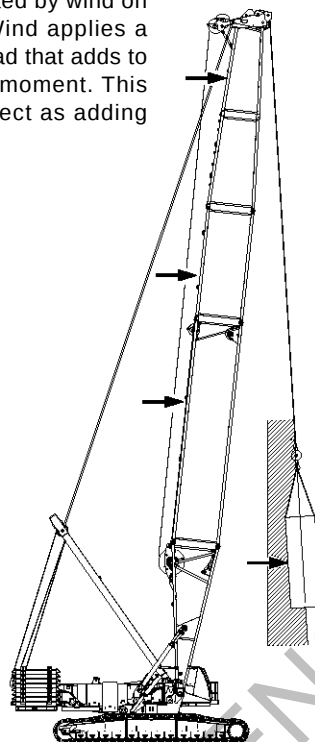
As a general rule, ratings and operating speeds must be reduced when:

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

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Forward stability is affected by wind on the rear of the boom. Wind applies a force to the boom and load that adds to the crane's overturning moment. This action has the same effect as adding load to the hook.



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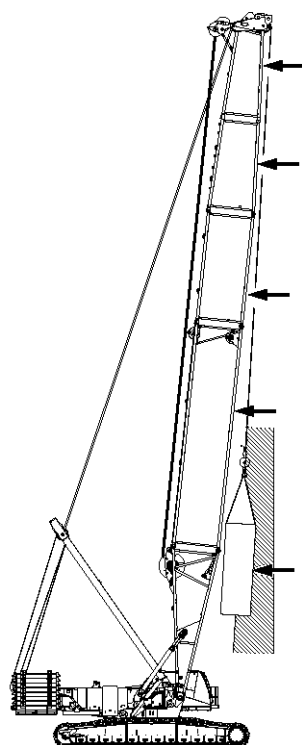
The wind's affect on the rear of the load increases load radius. This condition can result in an overload hazard, possibly causing the crane to tip or the boom to collapse.

To avoid this hazard, reduce operating speeds and load (see appropriate table for maximum wind speed).

Backward stability is affected by wind on the front of the boom. This condition is especially dangerous when the boom is at or near the maximum angle when operating without load.

Wind forces on the front of the boom reduce the normal forward tipping effect of the boom. The crane can tip or the boom can collapse if this condition is not avoided.

The boom can buckle and collapse if the load contacts the boom.



Boom strength is affected the most when the wind acts on the side of the boom.

The wind's affect on the side of the load can cause the load to swing out past the boom hinge pin. This condition can result in excessive side load forces on the boom, possibly causing the crane to tip or the boom to collapse.

To avoid this hazard, reduce operating speeds and load (see appropriate table for maximum wind speed).

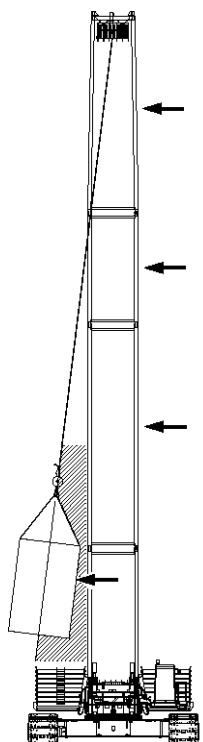


FIGURE 1

Wind Conditions

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Boom No. 58 HL with 32.0 ft (9,75 m) Live Mast

Operation Permitted

Operation is permitted in steady winds or gusts up to the maximum wind 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. Observe the following options:

Boom

- **Up to 50 mph (22 m/s) -**
Park crane (upper in line with crawlers) with load blocks and weight balls on ground or secured and position boom at 70°.
- **50 mph (22 m/s) and Above -**
Lower boom onto blocking at ground level.

Table 1: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	98.4 (30,0)	118.1 (36,0)	137.8 (42,0)	157.5 (48,0)	177.2 (54,0)	196.9 (60,0)	216.5 (66,0)	236.2 (72,0)	255.9 (78,0)	275.6 (84,0)	295.3 (90,0)	315.0 (96,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)											
100	30 (13)	30 (13)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)	20 (9)	20 (9)	20 (9)	20 (9)
90	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)
80	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	30 (13)	30 (13)
70	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)

Operation Not Permitted above 35 mph (16 m/s)

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Boom No. 58WA with Heavy Lift Top with 32.0 ft (9,75 m) Live Mast

Operation Permitted

Operation is permitted in steady winds or gusts up to the maximum wind speed given in Table 2 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 2 for a given capacity chart percentage. Observe the following options:

Boom

- **Up to 50 mph (22 m/s) -**
Park crane (upper in line with crawlers) with load blocks and weight balls on ground or secured and position boom at 70°.
- **50 mph (22m/s) and Above -**
Lower boom onto blocking at ground level.

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

Boom Length ft (m)	98.4 (30,0)	108.3 (33,0)	118.1 (36,0)	128.0 (39,0)	137.8 (42,0)	147.6 (45,0)	157.5 (48,0)	167.3 (51,0)	177.2 (54,0)	187.0 (57,0)	196.9 (60,0)	206.7 (63,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)											
100	30 (13)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)	20 (9)	20 (9)	20 (9)	20 (9)	20 (9)
90	35 (16)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)
80	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)
70	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)

Operation Not Permitted above 35 mph (16 m/s)

Table 2: (continued)

Boom Length ft (m)	216.5 (66,0)	226.4 (69,0)	236.2 (72,0)	246.1 (75,0)	255.9 (78,0)	265.7 (81,0)	275.6 (84,0)	285.4 (87,0)	295.3 (90,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)								
100	20 (9)	20 (9)	15 (7)	15 (7)	15 (7)	15 (7)	15 (7)	15 (7)	15 (7)
90	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)	20 (9)	20 (9)
80	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)
70	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)

Operation Not Permitted above 35 mph (16 m/s)

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Boom No. 58 HL

with 32.0 ft (9,75 m) Live Mast and
23.0 ft (7,0 m) Extended Upper Boom Point

Operation Permitted

Operation is permitted in steady winds or gusts up to the maximum wind speed given in Table 3 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 3 for a given capacity chart percentage. Observe the following options:

Boom

- **Up to 50 mph (22 m/s) -**
Park crane (upper in line with crawlers) with load blocks and weight balls on ground or secured and position boom at 70°.
- **50 mph (22 m/s) and Above -**
Lower boom onto blocking at ground level.

Table 3: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	137.8 (42,0)	157.5 (48,0)	177.2 (54,0)	196.9 (60,0)	216.5 (66,0)	236.2 (72,0)	255.9 (78,0)	275.6 (84,0)	295.3 (90,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)								
100	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	30 (13)	25 (11)
90	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)
80	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)
Operation Not Permitted above 35 mph (16 m/s)									

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Boom No. 58WA

with 32.0 ft (9,75 m) Live Mast and
24.9 ft (7,6 m) Extended Upper Boom Point

Operation Permitted

Operation is permitted in steady winds or gusts up to the maximum wind speed given in Table 4 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 4 for a given capacity chart percentage. Observe the following options:

Boom

- **Up to 50 mph (22 m/s) -**
Park crane (upper in line with crawlers) with load blocks and weight balls on ground or secured and position boom at 70°.
- **50 mph (22 m/s) and Above -**
Lower boom onto blocking at ground level.

Table 4: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	144.4 (44,0)	154.2 (47,0)	164.0 (50,0)	173.9 (53,0)	183.7 (56,0)	196.3 (59,0)	203.4 (62,0)	213.3 (65,0)	223.1 (68,0)	232.9 (71,0)	242.8 (74,0)	252.6 (77,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)											
100	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)
90	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	30 (13)	30 (13)	25 (11)
80	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)
70	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)

Operation Not Permitted above 35 mph (16 m/s)

Table 4: (continued)

Boom Length ft (m)	262.5 (80,0)	272.3 (83,0)	282.2 (86,0)	292.0 (89,0)	301.8 (92,0)	311.7 (95,0)
Percent Capacity Chart	Maximum Wind Speed mph (m/s)					
100	20 (9)	20 (9)	20 (9)	20 (9)	20 (9)	20 (9)
90	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)
80	35 (16)	30 (13)	30 (13)	30 (13)	30 (13)	30 (13)
70	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)

Operation Not Permitted above 35 mph (16 m/s)

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Boom No. 58BRS

with 32.0 ft (9,75 m) Live Mast and
24.9 ft (7,6 m) Extended Upper Boom Point

Operation Permitted

Operation is permitted in steady winds or gusts up to the maximum wind speed given in Table 5 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 5 for a given capacity chart percentage. Observe the following options:

Boom

- **Up to 50 mph (22 m/s) -**
Park crane (**upper in line with blocked crawlers**) with load blocks and weight balls on ground or secured and position boom at 70°.
- **50 mph (22 m/s) and Above -**
Lower boom onto blocking at ground level.

Table 5: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	292.0 (89,0)	301.8 (92,0)	311.7 (95,0)	321.5 (98,0)	331.4 (101,0)	341.2 (104,0)	351.0 (107,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)						
100	20 (9)	20 (9)	20 (9)	15 (7)	15 (7)	15 (7)	15 (7)
90	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)	15 (7)
80	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	25 (11)
70	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	30 (13)	30 (13)
60	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)

Operation Not Permitted above 35 mph (16 m/s)

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**Fixed Jib No. 133 or No. 133A on
Boom No. 58 HL
with 32.0 ft (9,75 m) Live Mast**

Operation Permitted

Operation is permitted in steady winds or gusts up to the maximum wind speed given in Tables 6a thru 6f 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 Tables 6a thru 6f for a given capacity chart percentage. Observe the following options:

Boom with Fixed Jib

- **Up to 50 mph (22 m/s) -**
Park crane (upper in line with crawlers) with load blocks and weight balls on ground or secured and position boom at 70°.
- **50 mph (22 m/s) and Above -**
Lower boom and jib onto blocking at ground level.

Table 6a: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	137.8 (42,0)							
Fixed Jib Length ft (m)	70.0 (21,3)	80.0 (24,4)	90.0 (27,4)	100.0 (33,5)	110.0 (33,5)	120.0 (36,6)	130.0 (39,6)	140.0 (42,7)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)							
100	30 (13)	30 (13)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)
90	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)
80	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)
Operation Not Permitted above 35 mph (16 m/s)								

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Table 6b: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	157.5 (48,0)							
Fixed Jib Length ft (m)	70.0 (21,3)	80.0 (24,4)	90.0 (27,4)	100.0 (33,5)	110.0 (33,5)	120.0 (36,6)	130.0 (39,6)	140.0 (42,7)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)							
100	30 (13)	30 (13)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)
90	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)
80	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)
Operation Not Permitted above 35 mph (16 m/s)								

Table 6c: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	177.2 (54,0)							
Fixed Jib Length ft (m)	70.0 (21,3)	80.0 (24,4)	90.0 (27,4)	100.0 (33,5)	110.0 (33,5)	120.0 (36,6)	130.0 (39,6)	140.0 (42,7)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)							
100	30 (13)	30 (13)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)
90	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)
80	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)
Operation Not Permitted above 35 mph (16 m/s)								

Table 6d: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	196.9 (60,0)							
Fixed Jib Length ft (m)	70.0 (21,3)	80.0 (24,4)	90.0 (27,4)	100.0 (33,5)	110.0 (33,5)	120.0 (36,6)	130.0 (39,6)	140.0 (42,7)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)							
100	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)
90	30 (13)	30 (13)	30 (13)	30 (13)	30 (13)	30 (13)	30 (13)	30 (13)
80	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)
Operation Not Permitted above 35 mph (16 m/s)								

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Table 6e: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	216.5 (66,0)						
Fixed Jib Length ft (m)	70.0 (21,3)	80.0 (24,4)	90.0 (27,4)	100.0 (33,5)	110.0 (33,5)	120.0 (36,6)	130.0 (39,6)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)						
100	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)
90	30 (13)	30 (13)	30 (13)	30 (13)	30 (13)	30 (13)	30 (13)
80	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)
Operation Not Permitted above 35 mph (16 m/s)							

Table 6f: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	236.2 (72,0)	
Fixed Jib Length ft (m)	70.0 (21,3)	80.0 (24,4)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)	
100	25 (11)	25 (11)
90	30 (13)	30 (13)
80	30 (13)	30 (13)
70	35 (16)	35 (16)
Operation Not Permitted above 35 mph (16 m/s)		

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Luffing Jib No. 59 on Boom No. 58 HL with 32.0 ft (9,75 m) Live Mast

Operation Permitted

Operation is permitted in steady winds or gusts up to the maximum wind speed given in Tables 7a thru 7g provided the lifted load does not exceed capacity chart percentage.

Wind speed to be measured at luffing jib point elevation. Refer to luffing jib capacity chart for specific backward stability conditions.

Operation Not Permitted

Operation is not permitted when the wind speed exceeds the values listed in Tables 7a thru 7g for a given capacity chart percentage. Observe the following options:

Boom with 78.7 - 196.9 ft (24,0 - 60,0 m) Luffing Jib

- **Up to 50 mph (22 m/s) -**
Park crane (upper in line with crawlers) with load blocks and weight balls on ground or secured and position boom at 85° and luffing jib at 55°.
- **50 mph (22 m/s) and Above -**
Lower boom and luffing jib onto blocking at ground level.

Boom with 216.5 - 275.6 ft (66,0 - 84,0 m) Luffing Jib

- **Up to 40 mph (18 m/s) -**
Park crane (upper in line with crawlers) with load blocks and weight balls on ground or secured and position boom at 85° and luffing jib at 65°.
- **40 mph (18 m/s) and Above -**
Lower boom and luffing jib onto blocking at ground level.

Table 7a: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	98.4 (30,0)										
Luffing Jib Length ft (m)	78.7 (24,0)	98.4 (30,0)	118.1 (36,0)	137.8 (42,0)	157.5 (48,0)	177.2 (54,0)	196.9 (60,0)	216.5 (66,0)	236.2 (72,0)	255.9 (78,0)	275.6 (84,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)										
100	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)
90	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)
80	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)
70	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	25 (11)	25 (11)

Operation Not Permitted above 35 mph (16 m/s)

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Table 7b: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	118.1 (36,0)										
Luffing Jib Length ft (m)	78.7 (24,0)	98.4 (30,0)	118.1 (36,0)	137.8 (42,0)	157.5 (48,0)	177.2 (54,0)	196.9 (60,0)	216.5 (66,0)	236.2 (72,0)	255.9 (78,0)	275.6 (84,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)										
100	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	25 (11)	25 (11)	25 (11)
90	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	25 (11)	25 (11)	25 (11)
80	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)
70	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)
Operation Not Permitted above 35 mph (16 m/s)											

Table 7c: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	137.8 (42,0)										
Luffing Jib Length ft (m)	78.7 (24,0)	98.4 (30,0)	118.1 (36,0)	137.8 (42,0)	157.5 (48,0)	177.2 (54,0)	196.9 (60,0)	216.5 (66,0)	236.2 (72,0)	255.9 (78,0)	275.6 (84,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)										
100	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	20 (9)
90	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	20 (9)
80	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	20 (9)
70	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	25 (11)	25 (11)	25 (11)
Operation Not Permitted above 35 mph (16 m/s)											

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Table 7d: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	157.5 (48,0)										
Luffing Jib Length ft (m)	78.7 (24,0)	98.4 (30,0)	118.1 (36,0)	137.8 (42,0)	157.5 (48,0)	177.2 (54,0)	196.9 (60,0)	216.5 (66,0)	236.2 (72,0)	255.9 (78,0)	275.6 (84,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)										
100	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	25 (11)	25 (11)	20 (9)	20 (9)
90	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	25 (11)	25 (11)	20 (9)	20 (9)
80	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	20 (9)
70	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	20 (9)
Operation Not Permitted above 35 mph (16 m/s)											

Table 7e: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	177.2 (54,0)										
Luffing Jib Length ft (m)	78.7 (24,0)	98.4 (30,0)	118.1 (36,0)	137.8 (42,0)	157.5 (48,0)	177.2 (54,0)	196.9 (60,0)	216.5 (66,0)	236.2 (72,0)	255.9 (78,0)	275.6 (84,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)										
100	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	20 (9)	20 (9)	20 (9)
90	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	20 (9)	20 (9)
80	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	25 (11)	25 (11)	20 (9)	20 (9)
70	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	25 (11)	25 (11)	20 (9)	20 (9)
Operation Not Permitted above 35 mph (16 m/s)											

Wind Conditions

16000

Table 7f: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	196.6 (60,0)						
Luffing Jib Length ft (m)	78.7 (24,0)	98.4 (30,0)	118.1 (36,0)	137.8 (42,0)	157.5 (48,0)	177.2 (54,0)	196.9 (60,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)						
100	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)
90	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	25 (11)
80	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	25 (11)
70	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)

Operation Not Permitted above 35 mph (16 m/s)

Table 7g: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	216.5 (66,0)	
Luffing Jib Length ft (m)	78.7 (24,0)	98.4 (30,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)	
100	35 (16)	35 (16)
90	35 (16)	35 (16)
80	35 (16)	35 (16)
70	35 (16)	35 (16)

Operation Not Permitted above 35 mph (16 m/s)

Wind Conditions

16000

Boom No. 58 HL

with 98.4 ft (30,0 m) Mast No. 59A and
23.0 ft (7,0 m) Extended Upper Boom Point

Operation Permitted

Operation is permitted in steady winds or gusts up to the maximum wind speed given in Table 8 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 8 for a given capacity chart percentage. Observe the following options:

Boom

- **Up to 50 mph (22 m/s) -**
Park crane (upper in line with crawlers) with load blocks and weight balls on ground or secured and position boom at 70°.
- **50 mph (22 m/s) and Above -**
Lower boom onto blocking at ground level.

Mast

- **Above 50 mph (22m/s) -**
Haul in boom hoist wire rope just enough to tension mast straps. Do not raise boom off blocking. **Wind can cause mast stops to collapse if this step is not performed.**
- **Above 75 mph (34 m/s) -**
Lower mast onto blocking at ground level.

Table 8: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	315.0 (96,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)
100	30 (13)
90	35 (16)

Operation Not Permitted above 35 mph (16 m/s)

Wind Conditions

16000

Luffing Jib No. 59 on Boom No. 58 HL with 98.4 ft (30,0 m) Mast No. 59A and without MAX-ER Attachment

Operation Permitted

Operation is permitted in steady winds or gusts up to the maximum wind speed given in Tables 9a thru 9d provided the lifted load does not exceed capacity chart percentage.

Wind speed to be measured at luffing jib point elevation. Refer to Luffing Jib Capacity Chart for specific backward stability conditions.

Operation Not Permitted

Operation is not permitted when the wind speed exceeds the values listed in Tables 9a thru 9d for a given capacity chart percentage. Observe the following options:

Boom with 78.7 - 196.9 ft (24,0 - 60,0 m) Luffing Jib

- Up to 50 mph (22 m/s) -**
Park crane (upper in line with crawlers) with load blocks and weight balls on ground or secured, and position boom at 80° and luffing jib at 50°.
- 50 mph (22 m/s) and Above -**
Lower boom and luffing jib onto blocking at ground level.

Operation Not Permitted (continued)

Boom with 216.5 - 276.5 ft (66,0 - 84,0 m) Luffing Jib

- Up to 40 mph (18 m/s) -**
Park crane (upper in line with crawlers) with load blocks and weight balls on ground or secured, and position boom at 80° and luffing jib at 50°.
- 40 mph (18 m/s) and above -**
Lower boom and luffing jib onto blocking at ground level.

Mast

- Above 50 mph (22m/s) -**
Haul in boom hoist wire rope just enough to tension mast straps. Do not raise boom off blocking. **Wind can cause mast stops to collapse if this step is not performed.**
- Above 75 mph (34 m/s) -**
Lower mast onto blocking at ground level.

Table 9a: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	137.8 (42,0)										
Luffing Jib Length ft (m)	78.7 (24,0)	98.4 (30,0)	118.1 (36,0)	137.8 (42,0)	157.5 (48,0)	177.2 (54,0)	196.9 (60,0)	216.5 (72,0)	236.2 (72,0)	255.9 (78,0)	275.6 (84,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)										
100	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)
90	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)
80	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)
70	35 (16)	30 (13)	30 (13)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)
60	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	25 (11)
50	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)
40	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)

Operation Not Permitted above 35 mph (16 m/s)

Wind Conditions

16000

Table 9b: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	157.5 (48,0)										
Luffing Jib Length ft (m)	78.7 (24,0)	98.4 (30,0)	118.1 (36,0)	137.8 (42,0)	157.5 (48,0)	177.2 (54,0)	196.9 (60,0)	216.5 (72,0)	236.2 (72,0)	255.9 (78,0)	275.6 (84,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)										
100	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)	20 (9)
90	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)
80	30 (13)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)
70	35 (16)	30 (13)	30 (13)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)
60	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)
50	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)
40	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)
Operation Not Permitted above 35 mph (16 m/s)											

Table 9c: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	177.2 (54,0)										
Luffing Jib Length ft (m)	78.7 (24,0)	98.4 (30,0)	118.1 (36,0)	137.8 (42,0)	157.5 (48,0)	177.2 (54,0)	196.9 (60,0)	216.5 (72,0)	236.2 (72,0)	255.9 (78,0)	275.6 (84,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)										
100	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)	15 (7)
90	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)
80	30 (13)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)
70	35 (16)	30 (13)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)
60	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)
50	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)
40	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)
Operation Not Permitted above 35 mph (16 m/s)											

Wind Conditions

16000

Table 9d: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	196.9 (60,0)							
Luffing Jib Length ft (m)	78.7 (24,0)	98.4 (30,0)	118.1 (36,0)	137.8 (42,0)	157.5 (48,0)	177.2 (54,0)	196.9 (60,0)	216.5 (72,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)							
100	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)
90	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)
80	30 (13)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)
70	35 (16)	30 (13)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)
60	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)
50	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)
40	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	25 (11)
Operation Not Permitted above 35 mph (16 m/s)								

Wind Conditions

16000

Boom No. 58 HL

with 98.4 ft (30,0 m) Mast No. 59A and
with or without MAX-ER Attachment

Operation Permitted

Operation is permitted in steady winds or gusts up to the maximum wind speed given in Table 10 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 10 for a given capacity chart percentage. Observe the following options:

Boom

- **Up to 50 mph (22 m/s) -**
Park crane (upper in line with crawlers) with load blocks and weight balls on ground or secured and position boom at 70°.
- **50 mph (22 m/s) and Above -**
Lower boom onto blocking at ground level.

Mast

- **Above 50 mph (22m/s) -**
Haul in boom hoist wire rope just enough to tension mast straps. Do not raise boom off blocking. **Wind can cause mast stops to collapse if this step is not performed.**
- **Above 75 mph (34 m/s) -**
Lower mast onto blocking at ground level.

Table 10: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	137.8 (42,0)	157.5 (48,0)	177.2 (54,0)	196.6 (60,0)	216.5 (66,0)	236.2 (72,0)	255.9 (78,0)	275.6 (84,0)	295.3 (90,0)	315.0 (96,0)	334.6 (102,0)	354.3 (108,0)	374.0 (114,0)	393.7 (120,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)													
100	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	15 (7)	15 (7)	15 (7)	15 (7)	15 (7)
90	30 (13)	30 (13)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)	20 (9)	15 (7)
80	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)
70	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	30 (13)	30 (13)
60	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)

Operation Not Permitted above 35 mph (16 m/s)

Wind Conditions

16000

Luffing Jib No. 59 on Boom No. 58 HL with 98.4 ft (30,0 m) Mast No. 59A and with MAX-ER Attachment

Operation Permitted

Operation is permitted in steady winds or gusts up to the maximum wind speed given in Tables 11a thru 11j provided the lifted load does not exceed capacity chart percentage.

Wind speed to be measured at luffing jib point elevation. Refer to Luffing Jib Capacity Chart for specific backward stability conditions.

Operation Not Permitted

Operation is not permitted when the wind speed exceeds the values listed in Tables 11a thru 11j for a given capacity chart percentage. Observe the following options:

Boom with 78.7 - 137.8 ft (24,0 - 42,0 m) Luffing Jib

- **Up to 50 mph (22 m/s) -**
Park crane (upper in line with crawlers) with load blocks and weight balls on ground or secured, and position boom at 75° and luffing jib at 45°.
- **50 mph (22 m/s) and Above -**
Lower boom and luffing jib onto blocking at ground level.

Operation Not Permitted (continued)

Boom with 157.5 - 196.9 ft (48,0 - 60,0 m) Luffing Jib

- **Up to 40 mph (18 m/s) -**
Park crane (upper in line with crawlers) with load blocks and weight balls on ground or secured, and position boom at 75° and luffing jib at 50°.
- **40 mph (18 m/s) and Above -**
Lower boom and luffing jib onto blocking at ground level.

Boom with 216.5 - 275.6 ft (66,0 - 84,0 m) Luffing Jib

- **Up to 30 mph (13 m/s) -**
Park crane (upper in line with crawlers) with load blocks and weight balls on ground or secured, and position boom at 75° and luffing jib at 55°.
- **30 mph (13 m/s) and Above -**
Lower boom and luffing jib onto blocking at ground level.

Mast

- **Above 50 mph (22m/s) -**
Haul in boom hoist wire rope just enough to tension mast straps. Do not raise boom off blocking. **Wind can cause mast stops to collapse if this step is not performed.**
- **Above 75 mph (34 m/s) -**
Lower mast onto blocking at ground level.

Wind Conditions

16000

Table 11a: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	137.8 (42,0)										
Luffing Jib Length ft (m)	78.7 (24,0)	98.4 (30,0)	118.1 (36,0)	137.8 (42,0)	157.5 (48,0)	177.2 (54,0)	196.9 (60,0)	216.5 (72,0)	236.2 (72,0)	255.9 (78,0)	275.6 (84,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)										
100	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)
90	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)
80	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)
70	35 (16)	30 (13)	30 (13)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)
60	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	25 (11)
50	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)
40	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)
Operation Not Permitted above 35 mph (16 m/s)											

Table 11b: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	157.5 (48,0)										
Luffing Jib Length ft (m)	78.7 (24,0)	98.4 (30,0)	118.1 (36,0)	137.8 (42,0)	157.5 (48,0)	177.2 (54,0)	196.9 (60,0)	216.5 (72,0)	236.2 (72,0)	255.9 (78,0)	275.6 (84,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)										
100	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)	20 (9)
90	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)
80	30 (13)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)
70	35 (16)	30 (13)	30 (13)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)
60	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)
50	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)
40	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)
Operation Not Permitted above 35 mph (16 m/s)											

Wind Conditions

16000

Table 11c: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	177.2 (54,0)										
Luffing Jib Length ft (m)	78.7 (24,0)	98.4 (30,0)	118.1 (36,0)	137.8 (42,0)	157.5 (48,0)	177.2 (54,0)	196.9 (60,0)	216.5 (72,0)	236.2 (72,0)	255.9 (78,0)	275.6 (84,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)										
100	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)	15 (7)
90	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)
80	30 (13)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)
70	35 (16)	30 (13)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)
60	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)
50	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)
40	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)
Operation Not Permitted above 35 mph (16 m/s)											

Table 11d: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	196.9 (60,0)										
Luffing Jib Length ft (m)	78.7 (24,0)	98.4 (30,0)	118.1 (36,0)	137.8 (42,0)	157.5 (48,0)	177.2 (54,0)	196.9 (60,0)	216.5 (72,0)	236.2 (72,0)	255.9 (78,0)	275.6 (84,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)										
100	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)	15 (7)
90	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)	15 (7)
80	30 (13)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)
70	35 (16)	30 (13)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)
60	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)
50	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	20 (9)	20 (9)
40	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)
Operation Not Permitted above 35 mph (16 m/s)											

Wind Conditions

16000

Table 11e: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	216.5 (66,0)										
Luffing Jib Length ft (m)	78.7 (24,0)	98.4 (30,0)	118.1 (36,0)	137.8 (42,0)	157.5 (48,0)	177.2 (54,0)	196.9 (60,0)	216.5 (72,0)	236.2 (72,0)	255.9 (78,0)	275.6 (84,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)										
100	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)	15 (7)	15 (7)
90	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)	15 (7)
80	30 (13)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	15 (7)
70	35 (16)	30 (13)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)
60	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)
50	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)
40	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)
Operation Not Permitted above 35 mph (16 m/s)											

Table 11f: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	236.2 (72,0)										
Luffing Jib Length ft (m)	78.7 (24,0)	98.4 (30,0)	118.1 (36,0)	137.8 (42,0)	157.5 (48,0)	177.2 (54,0)	196.9 (60,0)	216.5 (72,0)	236.2 (72,0)	255.9 (78,0)	275.6 (84,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)										
100	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)	15 (7)	15 (7)
90	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	15 (7)	15 (7)
80	30 (13)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)	15 (7)
70	35 (16)	30 (13)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)
60	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)
50	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)
40	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	20 (9)	20 (9)
Operation Not Permitted above 35 mph (16 m/s)											

Wind Conditions

16000

Table 11g: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	255.9 (78,0)										
Luffing Jib Length ft (m)	78.7 (24,0)	98.4 (30,0)	118.1 (36,0)	137.8 (42,0)	157.5 (48,0)	177.2 (54,0)	196.9 (60,0)	216.5 (72,0)	236.2 (72,0)	255.9 (78,0)	275.6 (84,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)										
100	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	15 (7)	15 (7)	15 (7)
90	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)	15 (7)	15 (7)
80	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	15 (7)	15 (7)
70	35 (16)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	15 (7)
60	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)
50	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)
40	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	20 (9)	20 (9)
Operation Not Permitted above 35 mph (16 m/s)											

Table 11h: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	275.6 (84,0)										
Luffing Jib Length ft (m)	78.7 (24,0)	98.4 (30,0)	118.1 (36,0)	137.8 (42,0)	157.5 (48,0)	177.2 (54,0)	196.9 (60,0)	216.5 (72,0)	236.2 (72,0)	255.9 (78,0)	275.6 (84,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)										
100	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)	15 (7)	15 (7)	15 (7)
90	25 (11)	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	15 (7)	15 (7)	15 (7)
80	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	15 (7)	15 (7)
70	35 (16)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	15 (7)
60	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	15 (7)
50	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)
40	35 (16)	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)
Operation Not Permitted above 35 mph (16 m/s)											

Wind Conditions

16000

Table 11i: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	295.3 (90,0)										
Luffing Jib Length ft (m)	78.7 (24,0)	98.4 (30,0)	118.1 (36,0)	137.8 (42,0)	157.5 (48,0)	177.2 (54,0)	196.9 (60,0)	216.5 (72,0)	236.2 (72,0)	255.9 (78,0)	275.6 (84,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)										
100	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	15 (7)	15 (7)	15 (7)	15 (7)
90	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	20 (9)	15 (7)	15 (7)	15 (7)
80	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	15 (7)	15 (7)	15 (7)
70	35 (16)	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	15 (7)	15 (7)
60	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	15 (7)
50	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	15 (7)
40	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)
Operation Not Permitted above 35 mph (16 m/s)											

Table 11j: Allowable Wind Speeds and Gusts for Various Capacity Chart Percentages

Boom Length ft (m)	315.0 (96,0)										
Luffing Jib Length ft (m)	78.7 (24,0)	98.4 (30,0)	118.1 (36,0)	137.8 (42,0)	157.5 (48,0)	177.2 (54,0)	196.9 (60,0)	216.5 (72,0)	236.2 (72,0)	255.9 (78,0)	275.6 (84,0)
Percent of Capacity Chart	Maximum Wind Speed mph (m/s)										
100	20 (9)	20 (9)	20 (9)	20 (9)	20 (9)	20 (9)	20 (9)	15 (7)	15 (7)	15 (7)	15 (7)
90	25 (11)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	15 (7)	15 (7)	15 (7)	15 (7)
80	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	15 (7)	15 (7)	15 (7)
70	30 (13)	30 (13)	30 (13)	25 (11)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	15 (7)	15 (7)
60	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	15 (7)	15 (7)
50	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	20 (9)	20 (9)	20 (9)	15 (7)
40	35 (16)	35 (16)	35 (16)	35 (16)	30 (13)	30 (13)	25 (11)	25 (11)	20 (9)	20 (9)	15 (7)
Operation Not Permitted above 35 mph (16 m/s)											