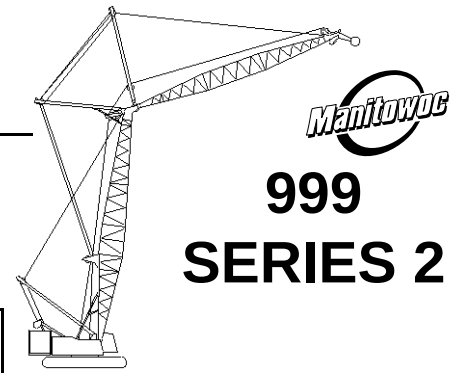




Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds (all boom lengths)

10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and are calculated to comply with EN 13000, ISO 4305 and include factors based on a 4.0 degree tipping angle. Capacities based on structural competence are denoted by an asterisk (*).

Consult Luffing Jib Raising Procedure chart **No. 9270-A** for Maximum Number of Lower Boom Point Sheaves (Layout Jack-Knife Method table, column A).

Weight of all load blocks, hooks, weight ball, slings, etc., beneath boom point sheaves, is considered part of main boom load. Reeved hoist line included in boom weight. Weight of luffing jib and 1 770 kg suspended beneath luffing jib point sheaves have been included in capacity determination. Boom is not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

OPERATING CONDITIONS: Machine to operate in a level position on a firm uniformly supporting surface with gantry up. During operation, luffing jib must be maintained at proper boom to luffing jib angle shown in table. Refer to luffing jib assembly **No. A01031**, Wire Rope Specification chart **No. 8423-A** and Luffing Jib Raising Procedure chart **No. 9270-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to operators manual for operating guidelines.

WIND CONDITIONS Machine may be operated in winds stated in Maximum Operating Wind Speed table provided crane operator judgment is used to allow for wind effect on lifted load and other considerations noted on capacity chart are followed. Wind will have a considerable effect on load with a large "sail area" and must be compensated for accordingly by reducing load ratings, reducing operating speeds, or by a combination of both. Wind speed to be measured at luffing jib point elevation. **Operation is not permitted when wind is above conditions stated in Maximum Operating Wind Speed table.** Park crane (upper inline with crawlers) with load block on ground or

secured and position boom at 75 degrees and luffing jib at 55 degrees for luffing jib lengths 21.3m thru 42.7m; position boom at 80 degrees and luffing jib at 60 degrees for luffing jib lengths 45.7m thru 73.2m. Lower boom and luffing jib onto blocking at ground level when wind is above conditions stated in Maximum Parking Wind Speed table.

MACHINE TRAVEL: Machine to travel on a firm, level (not to exceed 13 mm in 3m) and uniformly supporting surface. *Travel with 100 percent of rated load prohibited.* Travel restricted to 90 percent of rated capacity with speed not to exceed 0.4 m/s. Boom and luffing jib must be within angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8360-C**.

MAX PERMISSIBLE SLEWING SPEED: Slewing operation with working load shall not exceed 0.4 m/s as measured at the operating radius. The amount of time to brake or start slewing a working load shall not be less than 2.5 seconds.

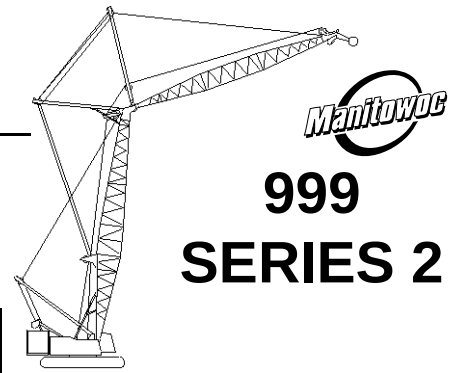
OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle is angle between horizontal and centerline of boom butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

BOOM POINT ELEVATION: Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with 8 585 mm crawlers, 1 219 mm treads, 3 124 mm retractable gantry, 9 144 mm live mast, 20 part boom hoist reeving, boom support straps, 9 part luffing jib hoist reeving, luffing jib straps, two 38 mm luffing jib backstay pendants, 83 730 kg crane counterweight and two 9 980 kg carbody counterweights.

Consult chart **No. 8418-AM** for main luffing jib capacities. Consult chart **No. 8347-AM** for intermediate fall capacities.

Fixed jib No. 134 must be removed before use of this chart.



999 SERIES 2

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds (all boom lengths)

10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

Boom Catwalks Deduct

Deduct 150 kg from capacities when boom is equipped with catwalks.

Maximum Parking Wind Speeds (all boom lengths)

Luffing Jib Lengths	Lower To Ground
21.3m - 42.7m	22 m/s
45.7m - 51.8m	18 m/s
54.9m - 61.0m	16 m/s
64.0m - 67.1m	13 m/s
70.1m - 73.2m	11 m/s

Luffing Jib Position During Operation

Luffing Jib Length - Meters	Boom To Luffing Jib Angle
21.3	140 Degrees
24.4 - 27.4	150 Degrees
30.5 - 36.6	160 Degrees
39.6 - 73.2	168 Degrees



999 SERIES 2

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

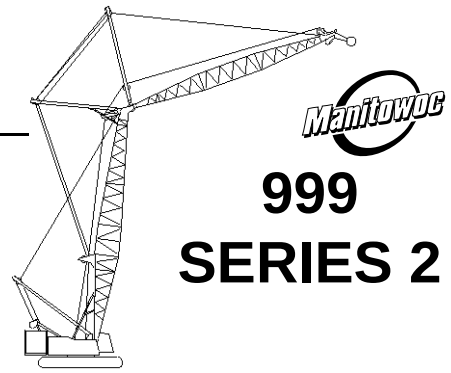
Maximum Operating Wind Speeds
(all boom lengths)
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

21.3m (70 Ft.) Luffing Jib, Attached at 140 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	181 000 *
5.5	82.2	26.6	170 400 *
6.0	81.0	26.5	155 700
6.5	79.8	26.4	140 300
7.0	78.6	26.3	125 200
7.5	77.4	26.1	113 300
8.0	76.2	26.0	103 100
8.5	75.0	25.9	94 300
9.0	73.8	25.7	86 600
10.0	71.3	25.4	73 900
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	156 900
6.0	82.0	29.6	149 500
6.5	81.0	29.5	133 500
7.0	79.9	29.4	120 300
7.5	78.9	29.3	109 100
8.0	77.8	29.2	99 500
8.5	76.7	29.0	91 200
9.0	75.6	28.9	83 900
10.0	73.4	28.6	71 800
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	139 700
6.5	81.9	32.6	128 500
7.0	80.9	32.5	115 700
7.5	80.0	32.4	105 300
8.0	79.0	32.3	96 200
8.5	78.1	32.2	88 400
9.0	77.1	32.0	81 400
10.0	75.1	31.8	69 900
11.0	73.2	31.5	60 500
12.0	71.2	31.1	52 900
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	117 900
7.0	81.8	35.6	111 600
7.5	80.9	35.5	101 400
8.0	80.0	35.4	92 900
8.5	79.2	35.3	85 400
9.0	78.3	35.2	78 800
10.0	76.5	34.9	67 700
11.0	74.8	34.7	58 800
12.0	73.0	34.3	51 400
13.0	71.2	34.0	45 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	113 300
7.0	82.5	38.7	107 500
7.5	81.7	38.6	97 900
8.0	80.9	38.5	89 800
8.5	80.1	38.4	82 700
9.0	79.3	38.3	76 500
10.0	77.7	38.1	65 900
11.0	76.1	37.8	57 300
12.0	74.4	37.5	50 100
13.0	72.8	37.2	44 200
14.0	71.1	36.9	39 000
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	97 700
7.5	82.3	41.7	94 700
8.0	81.6	41.6	86 900
8.5	80.9	41.5	80 100
9.0	80.1	41.4	74 100
10.0	78.6	41.2	64 000
11.0	77.2	41.0	55 800
12.0	75.7	40.7	48 800
13.0	74.2	40.4	43 000
14.0	72.6	40.1	38 100
15.0	71.1	39.8	33 800
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	85 000
8.0	82.2	44.7	84 000
8.5	81.5	44.6	77 600
9.0	80.8	44.5	71 900
10.0	79.5	44.3	62 100
11.0	78.1	44.1	54 200
12.0	76.7	43.9	47 500
13.0	75.3	43.6	41 900
14.0	73.9	43.3	37 100
15.0	72.5	43.0	32 900
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	82 200
8.0	82.7	47.7	81 300
8.5	82.1	47.7	75 100
9.0	81.4	47.6	69 600
10.0	80.2	47.4	60 300
11.0	78.9	47.2	52 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
45.7m (150 Ft.) BOOM			
12.0	77.6	47.0	46 200
13.0	76.3	46.7	40 700
14.0	75.0	46.5	36 000
15.0	73.7	46.2	31 900
16.0	72.4	45.9	28 300
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	72 300
9.0	82.0	50.7	67 500
10.0	80.8	50.5	58 500
11.0	79.6	50.3	51 100
12.0	78.4	50.1	44 800
13.0	77.2	49.9	39 500
14.0	76.0	49.6	35 000
15.0	74.8	49.4	31 000
16.0	73.5	49.1	27 500
18.0	71.1	48.4	21 600
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	70 000
9.0	82.5	53.8	65 500
10.0	81.3	53.6	56 800
11.0	80.2	53.4	49 700
12.0	79.1	53.2	43 600
13.0	78.0	53.0	38 500
14.0	76.8	52.8	34 100
15.0	75.7	52.5	30 200
16.0	74.5	52.2	26 800
18.0	72.2	51.6	21 100
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	62 000
10.0	81.8	56.7	55 100
11.0	80.8	56.5	48 200
12.0	79.7	56.3	42 400
13.0	78.6	56.1	37 400
14.0	77.6	55.9	33 100
15.0	76.5	55.7	29 300
16.0	75.4	55.4	25 900
18.0	73.2	54.8	20 300



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 2**

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(all boom lengths)

10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

24.4m (80 Ft.) Luffing Jib, Attached at 150 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
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24.4m (80 Ft.) BOOM

5.2	83.0	26.6	181 100 *
5.5	82.2	26.6	170 500 *
6.0	81.0	26.5	155 500
6.5	79.8	26.4	139 600
7.0	78.6	26.3	124 500
7.5	77.4	26.1	112 500
8.0	76.2	26.0	102 300
8.5	75.0	25.9	93 400
9.0	73.8	25.7	85 600
10.0	71.3	25.4	72 800
11.0	68.8	25.0	62 600
12.0	66.2	24.5	54 300

27.4m (90 Ft.) BOOM

5.8	82.5	29.6	156 800
6.0	82.0	29.6	149 200
6.5	81.0	29.5	133 000
7.0	79.9	29.4	119 700
7.5	78.9	29.3	108 500
8.0	77.8	29.2	98 800
8.5	76.7	29.0	90 400
9.0	75.6	28.9	83 100
10.0	73.4	28.6	70 800
11.0	71.2	28.2	61 000
12.0	69.0	27.8	53 000
13.0	66.7	27.4	46 300

30.5m (100 Ft.) BOOM

6.1	82.7	32.6	139 500
6.5	81.9	32.6	128 200
7.0	80.9	32.5	115 300
7.5	80.0	32.4	104 700
8.0	79.0	32.3	95 600
8.5	78.1	32.2	87 700
9.0	77.1	32.0	80 700
10.0	75.1	31.8	69 000
11.0	73.2	31.5	59 600
12.0	71.2	31.1	51 900
13.0	69.2	30.7	45 400
14.0	67.1	30.3	39 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
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33.5m (110 Ft.) BOOM

6.7	82.3	35.6	117 600
7.0	81.8	35.6	111 300
7.5	80.9	35.5	101 000
8.0	80.0	35.4	92 300
8.5	79.2	35.3	84 800
9.0	78.3	35.2	78 200
10.0	76.5	34.9	67 000
11.0	74.8	34.7	58 000
12.0	73.0	34.3	50 500
13.0	71.2	34.0	44 200
14.0	69.3	33.6	38 900
15.0	67.5	33.2	34 300

36.6m (120 Ft.) BOOM

6.7	82.9	38.7	113 100
7.0	82.5	38.7	107 200
7.5	81.7	38.6	97 500
8.0	80.9	38.5	89 400
8.5	80.1	38.4	82 200
9.0	79.3	38.3	75 900
10.0	77.7	38.1	65 200
11.0	76.1	37.8	56 500
12.0	74.4	37.5	49 300
13.0	72.8	37.2	43 200
14.0	71.1	36.9	38 100
15.0	69.5	36.5	33 600
16.0	67.8	36.1	29 700

39.6m (130 Ft.) BOOM

7.3	82.6	41.7	97 300
7.5	82.3	41.7	94 400
8.0	81.6	41.6	86 500
8.5	80.9	41.5	79 700
9.0	80.1	41.4	73 600
10.0	78.6	41.2	63 400
11.0	77.2	41.0	55 000
12.0	75.7	40.7	48 100
13.0	74.2	40.4	42 200
14.0	72.6	40.1	37 200
15.0	71.1	39.8	32 900
16.0	69.6	39.4	29 100
18.0	66.4	38.5	22 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
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42.7m (140 Ft.) BOOM

7.9	82.3	44.7	84 600
8.0	82.2	44.7	83 700
8.5	81.5	44.6	77 100
9.0	80.8	44.5	71 400
10.0	79.5	44.3	61 600
11.0	78.1	44.1	53 500
12.0	76.7	43.9	46 800
13.0	75.3	43.6	41 100
14.0	73.9	43.3	36 200
15.0	72.5	43.0	32 000
16.0	71.1	42.6	28 300
18.0	68.2	41.9	22 200

45.7m (150 Ft.) BOOM

7.9	82.8	47.8	81 900
8.0	82.7	47.7	80 900
8.5	82.1	47.7	74 700
9.0	81.4	47.6	69 100
10.0	80.2	47.4	59 800
11.0	78.9	47.2	52 000
12.0	77.6	47.0	45 500
13.0	76.3	46.7	40 000
14.0	75.0	46.5	35 200
15.0	73.7	46.2	31 100
16.0	72.4	45.9	27 500
18.0	69.7	45.1	21 500
20.0	67.0	44.3	16 600

48.8m (160 Ft.) BOOM

8.5	82.5	50.8	71 900
9.0	82.0	50.7	67 100
10.0	80.8	50.5	57 900
11.0	79.6	50.3	50 500
12.0	78.4	50.1	44 200
13.0	77.2	49.9	38 900
14.0	76.0	49.6	34 200
15.0	74.8	49.4	30 200
16.0	73.5	49.1	26 700
18.0	71.1	48.4	20 800
20.0	68.5	47.6	16 100



999

SERIES 2

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82

Luffing Jib No. 149

83 730 kg Crane Counterweight

19 960 kg Carbody Counterweight

360 Degree Rating

**Maximum Operating Wind Speeds
(all boom lengths)**

10 m/s with 21.3m thru 33.5m Luffing Jib

7 m/s with 36.6m thru 61.0m Luffing Jib

5 m/s with 64.0m thru 73.2m Luffing Jib

24.4m (80 Ft.) Luffing Jib, Attached at 150 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	69 700
9.0	82.5	53.8	65 100
10.0	81.3	53.6	56 300
11.0	80.2	53.4	49 100
12.0	79.1	53.2	43 100
13.0	78.0	53.0	37 900
14.0	76.8	52.8	33 400
15.0	75.7	52.5	29 500
16.0	74.5	52.2	26 000
18.0	72.2	51.6	20 300
20.0	69.9	50.9	15 600
22.0	67.5	50.1	11 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	61 700
10.0	81.8	56.7	54 600
11.0	80.8	56.5	47 700
12.0	79.7	56.3	41 800
13.0	78.6	56.1	36 700
14.0	77.6	55.9	32 400
15.0	76.5	55.7	28 600
16.0	75.4	55.4	25 200
18.0	73.2	54.8	19 600
20.0	71.0	54.1	15 000
22.0	68.8	53.4	11 200
24.0	66.5	52.5	8 100

REFERENCE ONLY!



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 2**

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(all boom lengths)

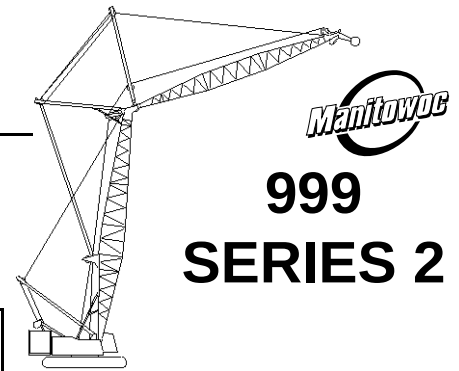
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

27.4m (90 Ft.) Luffing Jib, Attached at 150 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	179 100 *
5.5	82.2	26.6	168 600 *
6.0	81.0	26.5	152 600
6.5	79.8	26.4	135 800
7.0	78.6	26.3	121 400
7.5	77.4	26.1	109 500
8.0	76.2	26.0	99 400
8.5	75.0	25.9	90 700
9.0	73.8	25.7	83 000
10.0	71.3	25.4	70 400
11.0	68.8	25.0	60 300
12.0	66.2	24.5	52 100
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	153 300
6.0	82.0	29.6	145 900
6.5	81.0	29.5	129 900
7.0	79.9	29.4	116 700
7.5	78.9	29.3	105 600
8.0	77.8	29.2	96 100
8.5	76.7	29.0	87 800
9.0	75.6	28.9	80 600
10.0	73.4	28.6	68 500
11.0	71.2	28.2	58 800
12.0	69.0	27.8	50 900
13.0	66.7	27.4	44 300
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	136 300
6.5	81.9	32.6	125 200
7.0	80.9	32.5	112 400
7.5	80.0	32.4	102 000
8.0	79.0	32.3	93 100
8.5	78.1	32.2	85 200
9.0	77.1	32.0	78 300
10.0	75.1	31.8	66 800
11.0	73.2	31.5	57 500
12.0	71.2	31.1	49 900
13.0	69.2	30.7	43 500
14.0	67.1	30.3	38 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	114 800
7.0	81.8	35.6	108 500
7.5	80.9	35.5	98 400
8.0	80.0	35.4	89 900
8.5	79.2	35.3	82 400
9.0	78.3	35.2	75 900
10.0	76.5	34.9	64 800
11.0	74.8	34.7	55 900
12.0	73.0	34.3	48 600
13.0	71.2	34.0	42 400
14.0	69.3	33.6	37 200
15.0	67.5	33.2	32 600
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	110 400
7.0	82.5	38.7	104 600
7.5	81.7	38.6	95 000
8.0	80.9	38.5	87 000
8.5	80.1	38.4	79 900
9.0	79.3	38.3	73 700
10.0	77.7	38.1	63 100
11.0	76.1	37.8	54 500
12.0	74.4	37.5	47 400
13.0	72.8	37.2	41 500
14.0	71.1	36.9	36 400
15.0	69.5	36.5	32 000
16.0	67.8	36.1	28 200
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	94 900
7.5	82.3	41.7	92 000
8.0	81.6	41.6	84 200
8.5	80.9	41.5	77 400
9.0	80.1	41.4	71 500
10.0	78.6	41.2	61 400
11.0	77.2	41.0	53 100
12.0	75.7	40.7	46 300
13.0	74.2	40.4	40 500
14.0	72.6	40.1	35 600
15.0	71.1	39.8	31 300
16.0	69.6	39.4	27 500
18.0	66.4	38.5	21 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	82 400
8.0	82.2	44.7	81 400
8.5	81.5	44.6	75 000
9.0	80.8	44.5	69 300
10.0	79.5	44.3	59 600
11.0	78.1	44.1	51 700
12.0	76.7	43.9	45 000
13.0	75.3	43.6	39 500
14.0	73.9	43.3	34 600
15.0	72.5	43.0	30 400
16.0	71.1	42.6	26 800
18.0	68.2	41.9	20 700
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	79 700
8.0	82.7	47.7	78 800
8.5	82.1	47.7	72 600
9.0	81.4	47.6	67 100
10.0	80.2	47.4	57 800
11.0	78.9	47.2	50 200
12.0	77.6	47.0	43 800
13.0	76.3	46.7	38 300
14.0	75.0	46.5	33 700
15.0	73.7	46.2	29 600
16.0	72.4	45.9	26 000
18.0	69.7	45.1	20 100
20.0	67.0	44.3	15 300
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	69 800
9.0	82.0	50.7	65 100
10.0	80.8	50.5	56 100
11.0	79.6	50.3	48 700
12.0	78.4	50.1	42 500
13.0	77.2	49.9	37 200
14.0	76.0	49.6	32 700
15.0	74.8	49.4	28 800
16.0	73.5	49.1	25 300
18.0	71.1	48.4	19 400
20.0	68.5	47.6	14 700



999 SERIES 2

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds (all boom lengths)

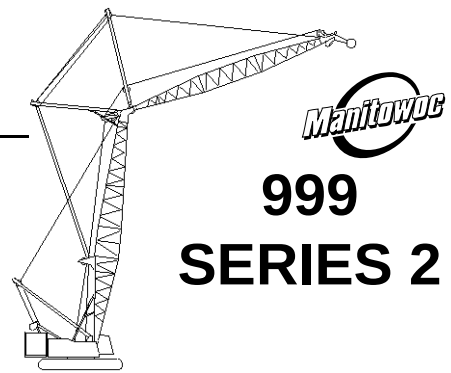
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

27.4m (90 Ft.) Luffing Jib, Attached at 150 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	67 700
9.0	82.5	53.8	63 200
10.0	81.3	53.6	54 500
11.0	80.2	53.4	47 400
12.0	79.1	53.2	41 400
13.0	78.0	53.0	36 300
14.0	76.8	52.8	31 900
15.0	75.7	52.5	28 000
16.0	74.5	52.2	24 600
18.0	72.2	51.6	18 900
20.0	69.9	50.9	14 300
22.0	67.5	50.1	10 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	59 800
10.0	81.8	56.7	52 800
11.0	80.8	56.5	46 000
12.0	79.7	56.3	40 200
13.0	78.6	56.1	35 200
14.0	77.6	55.9	30 900
15.0	76.5	55.7	27 100
16.0	75.4	55.4	23 800
18.0	73.2	54.8	18 200
20.0	71.0	54.1	13 800
22.0	68.8	53.4	10 000
24.0	66.5	52.5	6 900

REFERENCE ONLY!



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 2**

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(all boom lengths)

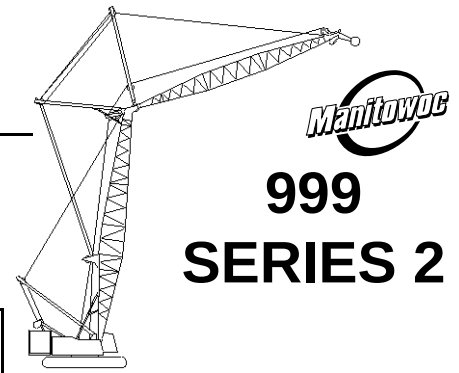
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

30.5m (100 Ft.) Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	180 300 *
5.5	82.2	26.6	169 900 *
6.0	81.0	26.5	154 000
6.5	79.8	26.4	137 300
7.0	78.6	26.3	122 400
7.5	77.4	26.1	110 200
8.0	76.2	26.0	99 900
8.5	75.0	25.9	91 000
9.0	73.8	25.7	83 100
10.0	71.3	25.4	70 200
11.0	68.8	25.0	59 900
12.0	66.2	24.5	51 500
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	155 200
6.0	82.0	29.6	147 600
6.5	81.0	29.5	131 200
7.0	79.9	29.4	117 800
7.5	78.9	29.3	106 500
8.0	77.8	29.2	96 700
8.5	76.7	29.0	88 300
9.0	75.6	28.9	80 800
10.0	73.4	28.6	68 500
11.0	71.2	28.2	58 600
12.0	69.0	27.8	50 500
13.0	66.7	27.4	43 700
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	138 000
6.5	81.9	32.6	126 600
7.0	80.9	32.5	113 600
7.5	80.0	32.4	102 900
8.0	79.0	32.3	93 800
8.5	78.1	32.2	85 700
9.0	77.1	32.0	78 700
10.0	75.1	31.8	66 900
11.0	73.2	31.5	57 400
12.0	71.2	31.1	49 600
13.0	69.2	30.7	43 100
14.0	67.1	30.3	37 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	116 100
7.0	81.8	35.6	109 700
7.5	80.9	35.5	99 300
8.0	80.0	35.4	90 600
8.5	79.2	35.3	83 000
9.0	78.3	35.2	76 300
10.0	76.5	34.9	65 100
11.0	74.8	34.7	55 900
12.0	73.0	34.3	48 400
13.0	71.2	34.0	42 100
14.0	69.3	33.6	36 700
15.0	67.5	33.2	32 100
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	111 700
7.0	82.5	38.7	105 700
7.5	81.7	38.6	96 000
8.0	80.9	38.5	87 800
8.5	80.1	38.4	80 600
9.0	79.3	38.3	74 200
10.0	77.7	38.1	63 400
11.0	76.1	37.8	54 600
12.0	74.4	37.5	47 400
13.0	72.8	37.2	41 200
14.0	71.1	36.9	36 000
15.0	69.5	36.5	31 500
16.0	67.8	36.1	27 600
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	95 900
7.5	82.3	41.7	92 900
8.0	81.6	41.6	85 000
8.5	80.9	41.5	78 100
9.0	80.1	41.4	72 100
10.0	78.6	41.2	61 700
11.0	77.2	41.0	53 300
12.0	75.7	40.7	46 300
13.0	74.2	40.4	40 400
14.0	72.6	40.1	35 300
15.0	71.1	39.8	30 900
16.0	69.6	39.4	27 100
18.0	66.4	38.5	20 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	83 300
8.0	82.2	44.7	82 300
8.5	81.5	44.6	75 700
9.0	80.8	44.5	69 900
10.0	79.5	44.3	60 000
11.0	78.1	44.1	51 900
12.0	76.7	43.9	45 100
13.0	75.3	43.6	39 300
14.0	73.9	43.3	34 400
15.0	72.5	43.0	30 200
16.0	71.1	42.6	26 400
18.0	68.2	41.9	20 200
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	80 600
8.0	82.7	47.7	79 600
8.5	82.1	47.7	73 400
9.0	81.4	47.6	67 800
10.0	80.2	47.4	58 200
11.0	78.9	47.2	50 400
12.0	77.6	47.0	43 900
13.0	76.3	46.7	38 300
14.0	75.0	46.5	33 500
15.0	73.7	46.2	29 400
16.0	72.4	45.9	25 700
18.0	69.7	45.1	19 600
20.0	67.0	44.3	14 700
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	70 600
9.0	82.0	50.7	65 700
10.0	80.8	50.5	56 500
11.0	79.6	50.3	49 000
12.0	78.4	50.1	42 600
13.0	77.2	49.9	37 300
14.0	76.0	49.6	32 600
15.0	74.8	49.4	28 500
16.0	73.5	49.1	25 000
18.0	71.1	48.4	19 000
20.0	68.5	47.6	14 200



999 SERIES 2

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(all boom lengths)
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

30.5m (100 Ft.) Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	68 400
9.0	82.5	53.8	63 800
10.0	81.3	53.6	55 000
11.0	80.2	53.4	47 700
12.0	79.1	53.2	41 600
13.0	78.0	53.0	36 400
14.0	76.8	52.8	31 800
15.0	75.7	52.5	27 800
16.0	74.5	52.2	24 400
18.0	72.2	51.6	18 500
20.0	69.9	50.9	13 900
22.0	67.5	50.1	10 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	60 400
10.0	81.8	56.7	53 300
11.0	80.8	56.5	46 300
12.0	79.7	56.3	40 400
13.0	78.6	56.1	35 300
14.0	77.6	55.9	30 900
15.0	76.5	55.7	27 000
16.0	75.4	55.4	23 600
18.0	73.2	54.8	17 900
20.0	71.0	54.1	13 300
22.0	68.8	53.4	9 500
24.0	66.5	52.5	6 300

REFERENCE ONLY!



**999
SERIES 2**

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

**Maximum Operating Wind Speeds
(all boom lengths)**

10 m/s with 21.3m thru 33.5m Luffing Jib

7 m/s with 36.6m thru 61.0m Luffing Jib

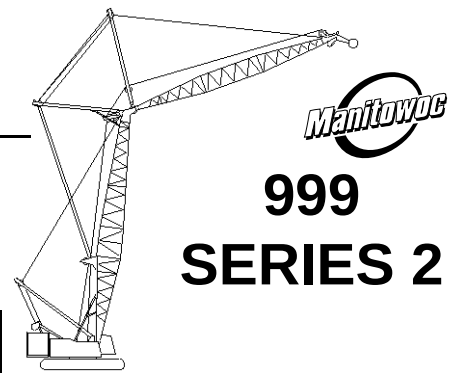
5 m/s with 64.0m thru 73.2m Luffing Jib

33.5m (110 Ft.) Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	178 700 *
5.5	82.2	26.6	168 600 *
6.0	81.0	26.5	152 100
6.5	79.8	26.4	134 500
7.0	78.6	26.3	120 100
7.5	77.4	26.1	108 100
8.0	76.2	26.0	97 800
8.5	75.0	25.9	89 000
9.0	73.8	25.7	81 200
10.0	71.3	25.4	68 400
11.0	68.8	25.0	58 200
12.0	66.2	24.5	49 800
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	152 700
6.0	82.0	29.6	145 200
6.5	81.0	29.5	129 000
7.0	79.9	29.4	115 700
7.5	78.9	29.3	104 400
8.0	77.8	29.2	94 800
8.5	76.7	29.0	86 400
9.0	75.6	28.9	79 000
10.0	73.4	28.6	66 800
11.0	71.2	28.2	57 000
12.0	69.0	27.8	48 900
13.0	66.7	27.4	42 300
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	135 800
6.5	81.9	32.6	124 500
7.0	80.9	32.5	111 600
7.5	80.0	32.4	101 000
8.0	79.0	32.3	91 900
8.5	78.1	32.2	84 000
9.0	77.1	32.0	77 000
10.0	75.1	31.8	65 300
11.0	73.2	31.5	55 900
12.0	71.2	31.1	48 100
13.0	69.2	30.7	41 700
14.0	67.1	30.3	36 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	114 100
7.0	81.8	35.6	107 800
7.5	80.9	35.5	97 500
8.0	80.0	35.4	88 900
8.5	79.2	35.3	81 300
9.0	78.3	35.2	74 700
10.0	76.5	34.9	63 500
11.0	74.8	34.7	54 500
12.0	73.0	34.3	47 000
13.0	71.2	34.0	40 700
14.0	69.3	33.6	35 400
15.0	67.5	33.2	30 800
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	109 900
7.0	82.5	38.7	103 900
7.5	81.7	38.6	94 200
8.0	80.9	38.5	86 100
8.5	80.1	38.4	79 000
9.0	79.3	38.3	72 600
10.0	77.7	38.1	61 900
11.0	76.1	37.8	53 200
12.0	74.4	37.5	46 000
13.0	72.8	37.2	40 000
14.0	71.1	36.9	34 800
15.0	69.5	36.5	30 300
16.0	67.8	36.1	26 400
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	94 300
7.5	82.3	41.7	91 300
8.0	81.6	41.6	83 400
8.5	80.9	41.5	76 600
9.0	80.1	41.4	70 500
10.0	78.6	41.2	60 300
11.0	77.2	41.0	52 000
12.0	75.7	40.7	45 000
13.0	74.2	40.4	39 100
14.0	72.6	40.1	34 100
15.0	71.1	39.8	29 800
16.0	69.6	39.4	25 900
18.0	66.4	38.5	19 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	81 700
8.0	82.2	44.7	80 800
8.5	81.5	44.6	74 200
9.0	80.8	44.5	68 400
10.0	79.5	44.3	58 600
11.0	78.1	44.1	50 600
12.0	76.7	43.9	43 900
13.0	75.3	43.6	38 200
14.0	73.9	43.3	33 300
15.0	72.5	43.0	29 100
16.0	71.1	42.6	25 300
18.0	68.2	41.9	19 200
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	79 100
8.0	82.7	47.7	78 100
8.5	82.1	47.7	71 900
9.0	81.4	47.6	66 300
10.0	80.2	47.4	56 900
11.0	78.9	47.2	49 200
12.0	77.6	47.0	42 700
13.0	76.3	46.7	37 200
14.0	75.0	46.5	32 400
15.0	73.7	46.2	28 300
16.0	72.4	45.9	24 700
18.0	69.7	45.1	18 600
20.0	67.0	44.3	13 800
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	69 200
9.0	82.0	50.7	64 400
10.0	80.8	50.5	55 300
11.0	79.6	50.3	47 800
12.0	78.4	50.1	41 500
13.0	77.2	49.9	36 100
14.0	76.0	49.6	31 500
15.0	74.8	49.4	27 500
16.0	73.5	49.1	24 000
18.0	71.1	48.4	18 100
20.0	68.5	47.6	13 300



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

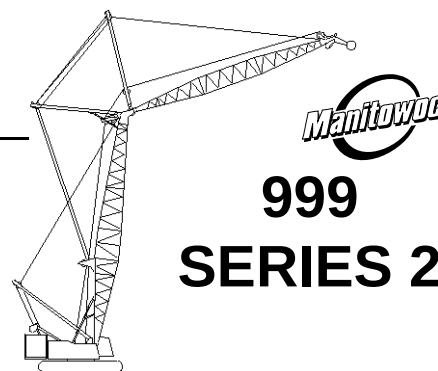
Maximum Operating Wind Speeds
(all boom lengths)
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

33.5m (110 Ft.) Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	67 100
9.0	82.5	53.8	62 500
10.0	81.3	53.6	53 700
11.0	80.2	53.4	46 500
12.0	79.1	53.2	40 400
13.0	78.0	53.0	35 200
14.0	76.8	52.8	30 700
15.0	75.7	52.5	26 800
16.0	74.5	52.2	23 400
18.0	72.2	51.6	17 600
20.0	69.9	50.9	12 900
22.0	67.5	50.1	9 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	59 100
10.0	81.8	56.7	52 100
11.0	80.8	56.5	45 100
12.0	79.7	56.3	39 300
13.0	78.6	56.1	34 200
14.0	77.6	55.9	29 800
15.0	76.5	55.7	26 000
16.0	75.4	55.4	22 600
18.0	73.2	54.8	17 000
20.0	71.0	54.1	12 400
22.0	68.8	53.4	8 700
24.0	66.5	52.5	5 500

REFERENCE ONLY!



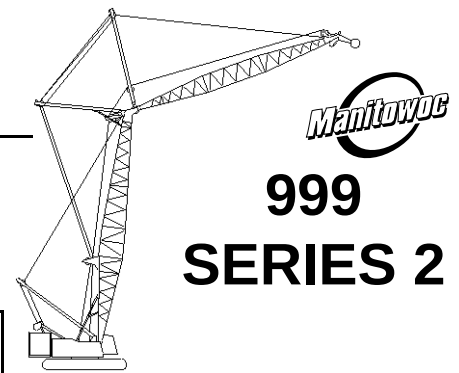
999 SERIES 2

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating
**Maximum Operating Wind Speeds
(all boom lengths)**
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib
36.6m (120 Ft.) Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	176 200 *
5.5	82.2	26.6	166 300
6.0	81.0	26.5	147 800
6.5	79.8	26.4	130 500
7.0	78.6	26.3	116 300
7.5	77.4	26.1	104 500
8.0	76.2	26.0	94 400
8.5	75.0	25.9	85 600
9.0	73.8	25.7	78 000
10.0	71.3	25.4	65 300
11.0	68.8	25.0	55 200
12.0	66.2	24.5	47 000
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	148 700
6.0	82.0	29.6	141 300
6.5	81.0	29.5	125 300
7.0	79.9	29.4	112 200
7.5	78.9	29.3	101 100
8.0	77.8	29.2	91 500
8.5	76.7	29.0	83 200
9.0	75.6	28.9	75 900
10.0	73.4	28.6	63 800
11.0	71.2	28.2	54 200
12.0	69.0	27.8	46 300
13.0	66.7	27.4	39 700
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	132 100
6.5	81.9	32.6	120 900
7.0	80.9	32.5	108 200
7.5	80.0	32.4	97 800
8.0	79.0	32.3	88 800
8.5	78.1	32.2	81 000
9.0	77.1	32.0	74 000
10.0	75.1	31.8	62 500
11.0	73.2	31.5	53 200
12.0	71.2	31.1	45 600
13.0	69.2	30.7	39 200
14.0	67.1	30.3	33 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	110 800
7.0	81.8	35.6	104 600
7.5	80.9	35.5	94 400
8.0	80.0	35.4	85 900
8.5	79.2	35.3	78 500
9.0	78.3	35.2	71 900
10.0	76.5	34.9	60 900
11.0	74.8	34.7	51 900
12.0	73.0	34.3	44 500
13.0	71.2	34.0	38 400
14.0	69.3	33.6	33 100
15.0	67.5	33.2	28 600
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	106 700
7.0	82.5	38.7	100 900
7.5	81.7	38.6	91 300
8.0	80.9	38.5	83 300
8.5	80.1	38.4	76 200
9.0	79.3	38.3	69 900
10.0	77.7	38.1	59 400
11.0	76.1	37.8	50 800
12.0	74.4	37.5	43 700
13.0	72.8	37.2	37 700
14.0	71.1	36.9	32 600
15.0	69.5	36.5	28 200
16.0	67.8	36.1	24 300
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	91 300
7.5	82.3	41.7	88 400
8.0	81.6	41.6	80 600
8.5	80.9	41.5	73 900
9.0	80.1	41.4	67 900
10.0	78.6	41.2	57 800
11.0	77.2	41.0	49 600
12.0	75.7	40.7	42 700
13.0	74.2	40.4	36 900
14.0	72.6	40.1	31 900
15.0	71.1	39.8	27 600
16.0	69.6	39.4	23 900
18.0	66.4	38.5	17 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	79 100
8.0	82.2	44.7	78 100
8.5	81.5	44.6	71 700
9.0	80.8	44.5	65 900
10.0	79.5	44.3	56 200
11.0	78.1	44.1	48 300
12.0	76.7	43.9	41 600
13.0	75.3	43.6	36 000
14.0	73.9	43.3	31 200
15.0	72.5	43.0	27 000
16.0	71.1	42.6	23 400
18.0	68.2	41.9	17 300
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	76 500
8.0	82.7	47.7	75 500
8.5	82.1	47.7	69 400
9.0	81.4	47.6	63 900
10.0	80.2	47.4	54 600
11.0	78.9	47.2	46 900
12.0	77.6	47.0	40 500
13.0	76.3	46.7	35 100
14.0	75.0	46.5	30 400
15.0	73.7	46.2	26 300
16.0	72.4	45.9	22 700
18.0	69.7	45.1	16 800
20.0	67.0	44.3	12 000
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	66 800
9.0	82.0	50.7	62 000
10.0	80.8	50.5	53 000
11.0	79.6	50.3	45 600
12.0	78.4	50.1	39 400
13.0	77.2	49.9	34 100
14.0	76.0	49.6	29 600
15.0	74.8	49.4	25 600
16.0	73.5	49.1	22 100
18.0	71.1	48.4	16 200
20.0	68.5	47.6	11 600



999 SERIES 2

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(all boom lengths)
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

36.6m (120 Ft.) Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	64 700
9.0	82.5	53.8	60 200
10.0	81.3	53.6	51 500
11.0	80.2	53.4	44 400
12.0	79.1	53.2	38 400
13.0	78.0	53.0	33 300
14.0	76.8	52.8	28 800
15.0	75.7	52.5	25 000
16.0	74.5	52.2	21 600
18.0	72.2	51.6	15 900
20.0	69.9	50.9	11 300
22.0	67.5	50.1	7 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	56 900
10.0	81.8	56.7	49 900
11.0	80.8	56.5	43 100
12.0	79.7	56.3	37 300
13.0	78.6	56.1	32 300
14.0	77.6	55.9	28 000
15.0	76.5	55.7	24 200
16.0	75.4	55.4	20 900
18.0	73.2	54.8	15 300
20.0	71.0	54.1	10 800
22.0	68.8	53.4	7 000
24.0	66.5	52.5	3 900

REFERENCE ONLY!



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 2**

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(all boom lengths)

10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

39.6m (130 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	174 700 *
5.5	82.2	26.6	169 100
6.0	81.0	26.5	151 800
6.5	79.8	26.4	133 700
7.0	78.6	26.3	119 100
7.5	77.4	26.1	106 900
8.0	76.2	26.0	96 400
8.5	75.0	25.9	87 300
9.0	73.8	25.7	79 400
10.0	71.3	25.4	66 300
11.0	68.8	25.0	55 900
12.0	66.2	24.5	47 400
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	152 800
6.0	82.0	29.6	145 100
6.5	81.0	29.5	128 600
7.0	79.9	29.4	115 000
7.5	78.9	29.3	103 500
8.0	77.8	29.2	93 700
8.5	76.7	29.0	85 100
9.0	75.6	28.9	77 600
10.0	73.4	28.6	65 100
11.0	71.2	28.2	55 000
12.0	69.0	27.8	46 800
13.0	66.7	27.4	40 000
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	135 800
6.5	81.9	32.6	124 200
7.0	80.9	32.5	111 100
7.5	80.0	32.4	100 300
8.0	79.0	32.3	91 000
8.5	78.1	32.2	82 900
9.0	77.1	32.0	75 800
10.0	75.1	31.8	63 800
11.0	73.2	31.5	54 200
12.0	71.2	31.1	46 300
13.0	69.2	30.7	39 700
14.0	67.1	30.3	34 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	113 800
7.0	81.8	35.6	107 400
7.5	80.9	35.5	96 900
8.0	80.0	35.4	88 100
8.5	79.2	35.3	80 500
9.0	78.3	35.2	73 600
10.0	76.5	34.9	62 200
11.0	74.8	34.7	53 000
12.0	73.0	34.3	45 400
13.0	71.2	34.0	39 000
14.0	69.3	33.6	33 500
15.0	67.5	33.2	28 900
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	109 700
7.0	82.5	38.7	103 700
7.5	81.7	38.6	93 800
8.0	80.9	38.5	85 500
8.5	80.1	38.4	78 200
9.0	79.3	38.3	71 700
10.0	77.7	38.1	60 800
11.0	76.1	37.8	51 900
12.0	74.4	37.5	44 600
13.0	72.8	37.2	38 400
14.0	71.1	36.9	33 100
15.0	69.5	36.5	28 500
16.0	67.8	36.1	24 500
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	93 900
7.5	82.3	41.7	90 900
8.0	81.6	41.6	82 900
8.5	80.9	41.5	75 900
9.0	80.1	41.4	69 800
10.0	78.6	41.2	59 300
11.0	77.2	41.0	50 800
12.0	75.7	40.7	43 700
13.0	74.2	40.4	37 700
14.0	72.6	40.1	32 600
15.0	71.1	39.8	28 100
16.0	69.6	39.4	24 200
18.0	66.4	38.5	17 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	81 300
8.0	82.2	44.7	80 300
8.5	81.5	44.6	73 700
9.0	80.8	44.5	67 700
10.0	79.5	44.3	57 700
11.0	78.1	44.1	49 500
12.0	76.7	43.9	42 700
13.0	75.3	43.6	36 800
14.0	73.9	43.3	31 900
15.0	72.5	43.0	27 500
16.0	71.1	42.6	23 700
18.0	68.2	41.9	17 500
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	78 700
8.0	82.7	47.7	77 700
8.5	82.1	47.7	71 400
9.0	81.4	47.6	65 700
10.0	80.2	47.4	56 100
11.0	78.9	47.2	48 200
12.0	77.6	47.0	41 600
13.0	76.3	46.7	36 000
14.0	75.0	46.5	31 100
15.0	73.7	46.2	26 900
16.0	72.4	45.9	23 200
18.0	69.7	45.1	17 000
20.0	67.0	44.3	12 100
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	68 700
9.0	82.0	50.7	63 800
10.0	80.8	50.5	54 500
11.0	79.6	50.3	46 900
12.0	78.4	50.1	40 500
13.0	77.2	49.9	35 000
14.0	76.0	49.6	30 300
15.0	74.8	49.4	26 200
16.0	73.5	49.1	22 600
18.0	71.1	48.4	16 500
20.0	68.5	47.6	11 700



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SERIES 2

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82

Luffing Jib No. 149

83 730 kg Crane Counterweight

19 960 kg Carbody Counterweight

360 Degree Rating

**Maximum Operating Wind Speeds
(all boom lengths)**

10 m/s with 21.3m thru 33.5m Luffing Jib

7 m/s with 36.6m thru 61.0m Luffing Jib

5 m/s with 64.0m thru 73.2m Luffing Jib

39.6m (130 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	66 700
9.0	82.5	53.8	62 000
10.0	81.3	53.6	53 000
11.0	80.2	53.4	45 700
12.0	79.1	53.2	39 500
13.0	78.0	53.0	34 200
14.0	76.8	52.8	29 600
15.0	75.7	52.5	25 600
16.0	74.5	52.2	22 100
18.0	72.2	51.6	16 200
20.0	69.9	50.9	11 400
22.0	67.5	50.1	7 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	58 700
10.0	81.8	56.7	51 500
11.0	80.8	56.5	44 400
12.0	79.7	56.3	38 400
13.0	78.6	56.1	33 200
14.0	77.6	55.9	28 800
15.0	76.5	55.7	24 900
16.0	75.4	55.4	21 500
18.0	73.2	54.8	15 600
20.0	71.0	54.1	11 000
22.0	68.8	53.4	7 100
24.0	66.5	52.5	3 900

REFERENCE ONLY!



999 SERIES 2

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating
**Maximum Operating Wind Speeds
(all boom lengths)**
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib
42.7m (140 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	172 300 *
5.5	82.2	26.6	167 200
6.0	81.0	26.5	148 000
6.5	79.8	26.4	130 200
7.0	78.6	26.3	115 800
7.5	77.4	26.1	103 600
8.0	76.2	26.0	93 200
8.5	75.0	25.9	84 300
9.0	73.8	25.7	76 400
10.0	71.3	25.4	63 500
11.0	68.8	25.0	53 100
12.0	66.2	24.5	44 700
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	149 300
6.0	82.0	29.6	141 700
6.5	81.0	29.5	125 300
7.0	79.9	29.4	111 800
7.5	78.9	29.3	100 500
8.0	77.8	29.2	90 700
8.5	76.7	29.0	82 200
9.0	75.6	28.9	74 800
10.0	73.4	28.6	62 400
11.0	71.2	28.2	52 500
12.0	69.0	27.8	44 300
13.0	66.7	27.4	37 500
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	132 600
6.5	81.9	32.6	121 100
7.0	80.9	32.5	108 100
7.5	80.0	32.4	97 400
8.0	79.0	32.3	88 200
8.5	78.1	32.2	80 200
9.0	77.1	32.0	73 100
10.0	75.1	31.8	61 300
11.0	73.2	31.5	51 700
12.0	71.2	31.1	43 900
13.0	69.2	30.7	37 400
14.0	67.1	30.3	31 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	111 000
7.0	81.8	35.6	104 600
7.5	80.9	35.5	94 200
8.0	80.0	35.4	85 500
8.5	79.2	35.3	77 900
9.0	78.3	35.2	71 100
10.0	76.5	34.9	59 800
11.0	74.8	34.7	50 700
12.0	73.0	34.3	43 100
13.0	71.2	34.0	36 700
14.0	69.3	33.6	31 400
15.0	67.5	33.2	26 700
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	107 000
7.0	82.5	38.7	101 000
7.5	81.7	38.6	91 200
8.0	80.9	38.5	83 000
8.5	80.1	38.4	75 700
9.0	79.3	38.3	69 300
10.0	77.7	38.1	58 400
11.0	76.1	37.8	49 700
12.0	74.4	37.5	42 400
13.0	72.8	37.2	36 200
14.0	71.1	36.9	31 000
15.0	69.5	36.5	26 500
16.0	67.8	36.1	22 500
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	91 400
7.5	82.3	41.7	88 400
8.0	81.6	41.6	80 400
8.5	80.9	41.5	73 600
9.0	80.1	41.4	67 400
10.0	78.6	41.2	57 100
11.0	77.2	41.0	48 600
12.0	75.7	40.7	41 600
13.0	74.2	40.4	35 600
14.0	72.6	40.1	30 500
15.0	71.1	39.8	26 100
16.0	69.6	39.4	22 300
18.0	66.4	38.5	15 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	79 000
8.0	82.2	44.7	78 000
8.5	81.5	44.6	71 400
9.0	80.8	44.5	65 500
10.0	79.5	44.3	55 600
11.0	78.1	44.1	47 400
12.0	76.7	43.9	40 600
13.0	75.3	43.6	34 900
14.0	73.9	43.3	29 900
15.0	72.5	43.0	25 700
16.0	71.1	42.6	21 900
18.0	68.2	41.9	15 600
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	76 400
8.0	82.7	47.7	75 500
8.5	82.1	47.7	69 200
9.0	81.4	47.6	63 600
10.0	80.2	47.4	54 100
11.0	78.9	47.2	46 200
12.0	77.6	47.0	39 600
13.0	76.3	46.7	34 000
14.0	75.0	46.5	29 200
15.0	73.7	46.2	25 100
16.0	72.4	45.9	21 400
18.0	69.7	45.1	15 300
20.0	67.0	44.3	10 400
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	66 600
9.0	82.0	50.7	61 700
10.0	80.8	50.5	52 500
11.0	79.6	50.3	44 900
12.0	78.4	50.1	38 600
13.0	77.2	49.9	33 100
14.0	76.0	49.6	28 500
15.0	74.8	49.4	24 400
16.0	73.5	49.1	20 800
18.0	71.1	48.4	14 800
20.0	68.5	47.6	10 000



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SERIES 2

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82

Luffing Jib No. 149

83 730 kg Crane Counterweight

19 960 kg Carbody Counterweight

360 Degree Rating

**Maximum Operating Wind Speeds
(all boom lengths)**

10 m/s with 21.3m thru 33.5m Luffing Jib

7 m/s with 36.6m thru 61.0m Luffing Jib

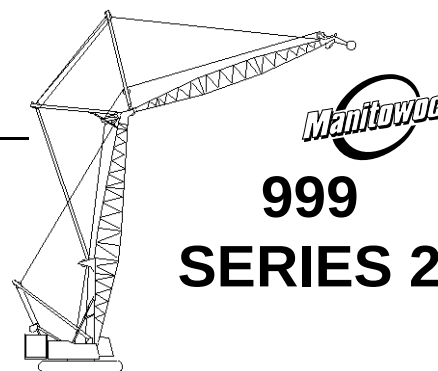
5 m/s with 64.0m thru 73.2m Luffing Jib

42.7m (140 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	64 600
9.0	82.5	53.8	60 000
10.0	81.3	53.6	51 100
11.0	80.2	53.4	43 800
12.0	79.1	53.2	37 600
13.0	78.0	53.0	32 400
14.0	76.8	52.8	27 800
15.0	75.7	52.5	23 900
16.0	74.5	52.2	20 400
18.0	72.2	51.6	14 500
20.0	69.9	50.9	9 800
22.0	67.5	50.1	5 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	56 700
10.0	81.8	56.7	49 600
11.0	80.8	56.5	42 500
12.0	79.7	56.3	36 600
13.0	78.6	56.1	31 500
14.0	77.6	55.9	27 000
15.0	76.5	55.7	23 200
16.0	75.4	55.4	19 800
18.0	73.2	54.8	14 000

REFERENCE ONLY!



999 SERIES 2

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(all boom lengths)

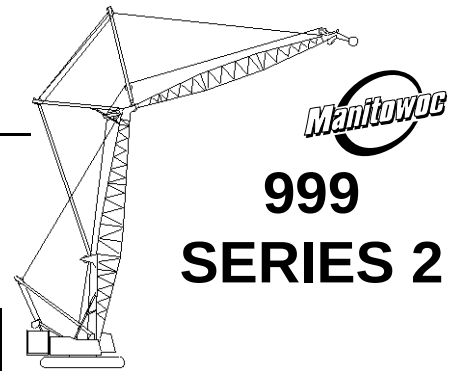
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

45.7m (150 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	170 100 *
5.5	82.2	26.6	165 800
6.0	81.0	26.5	144 900
6.5	79.8	26.4	127 500
7.0	78.6	26.3	113 100
7.5	77.4	26.1	101 000
8.0	76.2	26.0	90 800
8.5	75.0	25.9	81 900
9.0	73.8	25.7	74 100
10.0	71.3	25.4	61 200
11.0	68.8	25.0	51 000
12.0	66.2	24.5	42 600
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	146 500
6.0	82.0	29.6	139 000
6.5	81.0	29.5	122 800
7.0	79.9	29.4	109 400
7.5	78.9	29.3	98 100
8.0	77.8	29.2	88 400
8.5	76.7	29.0	80 000
9.0	75.6	28.9	72 600
10.0	73.4	28.6	60 300
11.0	71.2	28.2	50 500
12.0	69.0	27.8	42 400
13.0	66.7	27.4	35 700
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	130 100
6.5	81.9	32.6	118 700
7.0	80.9	32.5	105 800
7.5	80.0	32.4	95 200
8.0	79.0	32.3	86 100
8.5	78.1	32.2	78 100
9.0	77.1	32.0	71 100
10.0	75.1	31.8	59 300
11.0	73.2	31.5	49 900
12.0	71.2	31.1	42 100
13.0	69.2	30.7	35 600
14.0	67.1	30.3	30 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	108 800
7.0	81.8	35.6	102 400
7.5	80.9	35.5	92 100
8.0	80.0	35.4	83 500
8.5	79.2	35.3	75 900
9.0	78.3	35.2	69 200
10.0	76.5	34.9	58 000
11.0	74.8	34.7	48 900
12.0	73.0	34.3	41 400
13.0	71.2	34.0	35 100
14.0	69.3	33.6	29 800
15.0	67.5	33.2	25 200
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	104 900
7.0	82.5	38.7	98 900
7.5	81.7	38.6	89 200
8.0	80.9	38.5	81 100
8.5	80.1	38.4	73 800
9.0	79.3	38.3	67 500
10.0	77.7	38.1	56 700
11.0	76.1	37.8	48 000
12.0	74.4	37.5	40 800
13.0	72.8	37.2	34 700
14.0	71.1	36.9	29 500
15.0	69.5	36.5	25 000
16.0	67.8	36.1	21 100
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	89 500
7.5	82.3	41.7	86 600
8.0	81.6	41.6	78 600
8.5	80.9	41.5	71 800
9.0	80.1	41.4	65 700
10.0	78.6	41.2	55 400
11.0	77.2	41.0	47 100
12.0	75.7	40.7	40 100
13.0	74.2	40.4	34 200
14.0	72.6	40.1	29 100
15.0	71.1	39.8	24 800
16.0	69.6	39.4	21 000
18.0	66.4	38.5	14 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	77 200
8.0	82.2	44.7	76 300
8.5	81.5	44.6	69 700
9.0	80.8	44.5	63 900
10.0	79.5	44.3	54 000
11.0	78.1	44.1	45 900
12.0	76.7	43.9	39 200
13.0	75.3	43.6	33 500
14.0	73.9	43.3	28 600
15.0	72.5	43.0	24 300
16.0	71.1	42.6	20 600
18.0	68.2	41.9	14 400
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	74 700
8.0	82.7	47.7	73 800
8.5	82.1	47.7	67 600
9.0	81.4	47.6	62 000
10.0	80.2	47.4	52 500
11.0	78.9	47.2	44 800
12.0	77.6	47.0	38 200
13.0	76.3	46.7	32 700
14.0	75.0	46.5	27 900
15.0	73.7	46.2	23 800
16.0	72.4	45.9	20 100
18.0	69.7	45.1	14 000
20.0	67.0	44.3	9 200
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	65 000
9.0	82.0	50.7	60 200
10.0	80.8	50.5	51 000
11.0	79.6	50.3	43 500
12.0	78.4	50.1	37 200
13.0	77.2	49.9	31 800
14.0	76.0	49.6	27 200
15.0	74.8	49.4	23 200
16.0	73.5	49.1	19 600
18.0	71.1	48.4	13 700
20.0	68.5	47.6	8 900



999 SERIES 2

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

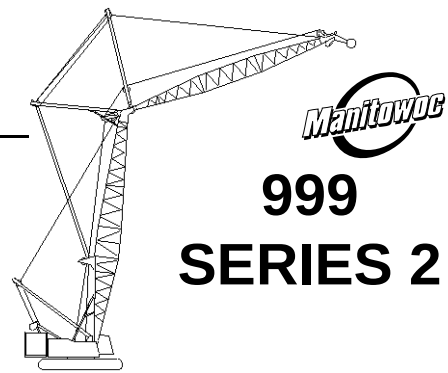
Maximum Operating Wind Speeds
(all boom lengths)
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

45.7m (150 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	63 100
9.0	82.5	53.8	58 500
10.0	81.3	53.6	49 700
11.0	80.2	53.4	42 500
12.0	79.1	53.2	36 300
13.0	78.0	53.0	31 100
14.0	76.8	52.8	26 600
15.0	75.7	52.5	22 700
16.0	74.5	52.2	19 200
18.0	72.2	51.6	13 400
20.0	69.9	50.9	8 800
22.0	67.5	50.1	4 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	55 300
10.0	81.8	56.7	48 200
11.0	80.8	56.5	41 200
12.0	79.7	56.3	35 300
13.0	78.6	56.1	30 300
14.0	77.6	55.9	25 900
15.0	76.5	55.7	22 000
16.0	75.4	55.4	18 600
18.0	73.2	54.8	13 000

REFERENCE ONLY!



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 2**

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

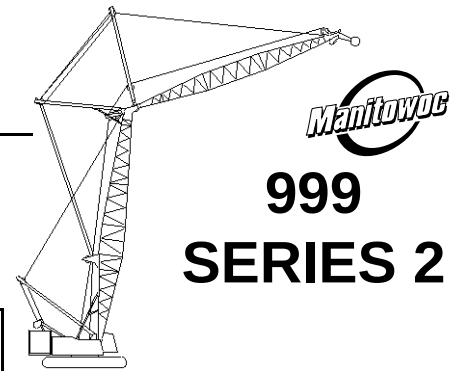
Maximum Operating Wind Speeds
(all boom lengths)
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

48.8m (160 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	167 500 *
5.5	82.2	26.6	162 300
6.0	81.0	26.5	141 000
6.5	79.8	26.4	123 800
7.0	78.6	26.3	109 600
7.5	77.4	26.1	97 600
8.0	76.2	26.0	87 400
8.5	75.0	25.9	78 600
9.0	73.8	25.7	70 900
10.0	71.3	25.4	58 200
11.0	68.8	25.0	48 100
12.0	66.2	24.5	39 800
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	142 900
6.0	82.0	29.6	135 400
6.5	81.0	29.5	119 300
7.0	79.9	29.4	106 100
7.5	78.9	29.3	94 900
8.0	77.8	29.2	85 300
8.5	76.7	29.0	76 900
9.0	75.6	28.9	69 600
10.0	73.4	28.6	57 400
11.0	71.2	28.2	47 700
12.0	69.0	27.8	39 700
13.0	66.7	27.4	33 100
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	126 800
6.5	81.9	32.6	115 500
7.0	80.9	32.5	102 700
7.5	80.0	32.4	92 200
8.0	79.0	32.3	83 100
8.5	78.1	32.2	75 200
9.0	77.1	32.0	68 300
10.0	75.1	31.8	56 600
11.0	73.2	31.5	47 300
12.0	71.2	31.1	39 600
13.0	69.2	30.7	33 200
14.0	67.1	30.3	27 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	105 800
7.0	81.8	35.6	99 500
7.5	80.9	35.5	89 200
8.0	80.0	35.4	80 700
8.5	79.2	35.3	73 200
9.0	78.3	35.2	66 600
10.0	76.5	34.9	55 400
11.0	74.8	34.7	46 400
12.0	73.0	34.3	39 000
13.0	71.2	34.0	32 800
14.0	69.3	33.6	27 500
15.0	67.5	33.2	22 900
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	102 000
7.0	82.5	38.7	96 100
7.5	81.7	38.6	86 500
8.0	80.9	38.5	78 400
8.5	80.1	38.4	71 300
9.0	79.3	38.3	64 900
10.0	77.7	38.1	54 300
11.0	76.1	37.8	45 700
12.0	74.4	37.5	38 500
13.0	72.8	37.2	32 500
14.0	71.1	36.9	27 300
15.0	69.5	36.5	22 900
16.0	67.8	36.1	19 000
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	86 900
7.5	82.3	41.7	83 900
8.0	81.6	41.6	76 100
8.5	80.9	41.5	69 300
9.0	80.1	41.4	63 300
10.0	78.6	41.2	53 100
11.0	77.2	41.0	44 800
12.0	75.7	40.7	37 800
13.0	74.2	40.4	32 000
14.0	72.6	40.1	27 000
15.0	71.1	39.8	22 700
16.0	69.6	39.4	18 900
18.0	66.4	38.5	12 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	74 700
8.0	82.2	44.7	73 800
8.5	81.5	44.6	67 300
9.0	80.8	44.5	61 500
10.0	79.5	44.3	51 700
11.0	78.1	44.1	43 700
12.0	76.7	43.9	37 100
13.0	75.3	43.6	31 400
14.0	73.9	43.3	26 500
15.0	72.5	43.0	22 300
16.0	71.1	42.6	18 600
18.0	68.2	41.9	12 500
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	72 400
8.0	82.7	47.7	71 500
8.5	82.1	47.7	65 300
9.0	81.4	47.6	59 700
10.0	80.2	47.4	50 400
11.0	78.9	47.2	42 600
12.0	77.6	47.0	36 200
13.0	76.3	46.7	30 700
14.0	75.0	46.5	25 900
15.0	73.7	46.2	21 900
16.0	72.4	45.9	18 200
18.0	69.7	45.1	12 200
20.0	67.0	44.3	7 400
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	62 800
9.0	82.0	50.7	58 000
10.0	80.8	50.5	48 900
11.0	79.6	50.3	41 500
12.0	78.4	50.1	35 200
13.0	77.2	49.9	29 900
14.0	76.0	49.6	25 300
15.0	74.8	49.4	21 300
16.0	73.5	49.1	17 800
18.0	71.1	48.4	11 900
20.0	68.5	47.6	7 200



999 SERIES 2

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(all boom lengths)
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

48.8m (160 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	61 000
9.0	82.5	53.8	56 400
10.0	81.3	53.6	47 600
11.0	80.2	53.4	40 500
12.0	79.1	53.2	34 400
13.0	78.0	53.0	29 200
14.0	76.8	52.8	24 800
15.0	75.7	52.5	20 900
16.0	74.5	52.2	17 400
18.0	72.2	51.6	11 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	53 500 *
10.0	81.8	56.7	46 700
11.0	80.8	56.5	39 800
12.0	79.7	56.3	33 900
13.0	78.6	56.1	28 900
14.0	77.6	55.9	24 600
15.0	76.5	55.7	20 800
16.0	75.4	55.4	17 400
18.0	73.2	54.8	11 800

REFERENCE ONLY!



999 SERIES 2

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(all boom lengths)

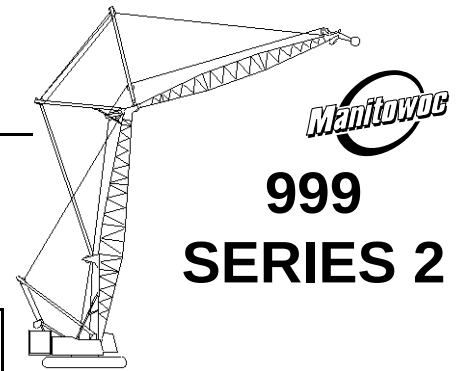
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

51.8m (170 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	165 700 *
5.5	82.2	26.6	158 800
6.0	81.0	26.5	137 600
6.5	79.8	26.4	120 600
7.0	78.6	26.3	106 500
7.5	77.4	26.1	94 600
8.0	76.2	26.0	84 600
8.5	75.0	25.9	75 800
9.0	73.8	25.7	68 200
10.0	71.3	25.4	55 600
11.0	68.8	25.0	45 600
12.0	66.2	24.5	37 400
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	139 700
6.0	82.0	29.6	132 300
6.5	81.0	29.5	116 300
7.0	79.9	29.4	103 200
7.5	78.9	29.3	92 100
8.0	77.8	29.2	82 600
8.5	76.7	29.0	74 300
9.0	75.6	28.9	67 100
10.0	73.4	28.6	55 000
11.0	71.2	28.2	45 400
12.0	69.0	27.8	37 500
13.0	66.7	27.4	30 900
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	123 900
6.5	81.9	32.6	112 700
7.0	80.9	32.5	100 000
7.5	80.0	32.4	89 600
8.0	79.0	32.3	80 600
8.5	78.1	32.2	72 800
9.0	77.1	32.0	65 900
10.0	75.1	31.8	54 400
11.0	73.2	31.5	45 100
12.0	71.2	31.1	37 500
13.0	69.2	30.7	31 100
14.0	67.1	30.3	25 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	103 100
7.0	81.8	35.6	96 900
7.5	80.9	35.5	86 800
8.0	80.0	35.4	78 300
8.5	79.2	35.3	70 900
9.0	78.3	35.2	64 300
10.0	76.5	34.9	53 300
11.0	74.8	34.7	44 400
12.0	73.0	34.3	37 000
13.0	71.2	34.0	30 800
14.0	69.3	33.6	25 600
15.0	67.5	33.2	21 100
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	99 600
7.0	82.5	38.7	93 700
7.5	81.7	38.6	84 200
8.0	80.9	38.5	76 100
8.5	80.1	38.4	69 100
9.0	79.3	38.3	62 800
10.0	77.7	38.1	52 300
11.0	76.1	37.8	43 700
12.0	74.4	37.5	36 600
13.0	72.8	37.2	30 600
14.0	71.1	36.9	25 500
15.0	69.5	36.5	21 100
16.0	67.8	36.1	17 200
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	84 600
7.5	82.3	41.7	81 700
8.0	81.6	41.6	73 900
8.5	80.9	41.5	67 200
9.0	80.1	41.4	61 200
10.0	78.6	41.2	51 100
11.0	77.2	41.0	42 900
12.0	75.7	40.7	36 000
13.0	74.2	40.4	30 200
14.0	72.6	40.1	25 300
15.0	71.1	39.8	21 000
16.0	69.6	39.4	17 200
18.0	66.4	38.5	11 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	72 700
8.0	82.2	44.7	71 700
8.5	81.5	44.6	65 300
9.0	80.8	44.5	59 500
10.0	79.5	44.3	49 900
11.0	78.1	44.1	41 900
12.0	76.7	43.9	35 300
13.0	75.3	43.6	29 700
14.0	73.9	43.3	24 900
15.0	72.5	43.0	20 700
16.0	71.1	42.6	17 000
18.0	68.2	41.9	11 000
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	70 300
8.0	82.7	47.7	69 400
8.5	82.1	47.7	63 300
9.0	81.4	47.6	57 800
10.0	80.2	47.4	48 500
11.0	78.9	47.2	40 900
12.0	77.6	47.0	34 500
13.0	76.3	46.7	29 000
14.0	75.0	46.5	24 400
15.0	73.7	46.2	20 300
16.0	72.4	45.9	16 700
18.0	69.7	45.1	10 700
20.0	67.0	44.3	5 900
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	60 900
9.0	82.0	50.7	56 200
10.0	80.8	50.5	47 200
11.0	79.6	50.3	39 800
12.0	78.4	50.1	33 600
13.0	77.2	49.9	28 300
14.0	76.0	49.6	23 800
15.0	74.8	49.4	19 800
16.0	73.5	49.1	16 300
18.0	71.1	48.4	10 400



999 SERIES 2

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(all boom lengths)
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

51.8m (170 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	59 100
9.0	82.5	53.8	54 600
10.0	81.3	53.6	45 900
11.0	80.2	53.4	38 800
12.0	79.1	53.2	32 800
13.0	78.0	53.0	27 700
14.0	76.8	52.8	23 300
15.0	75.7	52.5	19 400
16.0	74.5	52.2	16 000
18.0	72.2	51.6	10 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	52 000
10.0	81.8	56.7	45 000
11.0	80.8	56.5	38 200
12.0	79.7	56.3	32 400
13.0	78.6	56.1	27 400
14.0	77.6	55.9	23 100
15.0	76.5	55.7	19 300

REFERENCE ONLY!



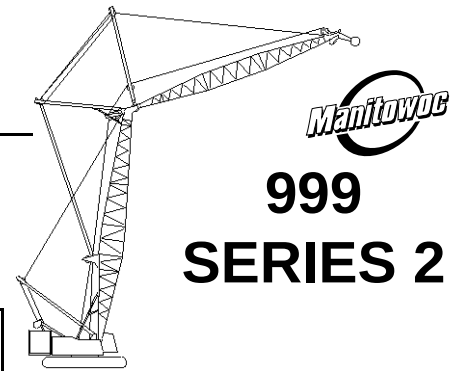
999 SERIES 2

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating
**Maximum Operating Wind Speeds
(all boom lengths)**
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib
54.9m (180 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	163 000 *
5.5	82.2	26.6	154 400
6.0	81.0	26.5	133 500
6.5	79.8	26.4	116 600
7.0	78.6	26.3	102 700
7.5	77.4	26.1	91 000
8.0	76.2	26.0	81 000
8.5	75.0	25.9	72 300
9.0	73.8	25.7	64 800
10.0	71.3	25.4	52 300
11.0	68.8	25.0	42 400
12.0	66.2	24.5	34 300
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	135 800
6.0	82.0	29.6	128 400
6.5	81.0	29.5	112 600
7.0	79.9	29.4	99 600
7.5	78.9	29.3	88 700
8.0	77.8	29.2	79 300
8.5	76.7	29.0	71 100
9.0	75.6	28.9	63 900
10.0	73.4	28.6	51 900
11.0	71.2	28.2	42 400
12.0	69.0	27.8	34 600
13.0	66.7	27.4	28 100
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	120 300
6.5	81.9	32.6	109 200
7.0	80.9	32.5	96 600
7.5	80.0	32.4	86 300
8.0	79.0	32.3	77 500
8.5	78.1	32.2	69 700
9.0	77.1	32.0	62 900
10.0	75.1	31.8	51 500
11.0	73.2	31.5	42 300
12.0	71.2	31.1	34 800
13.0	69.2	30.7	28 500
14.0	67.1	30.3	23 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	99 900
7.0	81.8	35.6	93 800
7.5	80.9	35.5	83 700
8.0	80.0	35.4	75 300
8.5	79.2	35.3	68 000
9.0	78.3	35.2	61 500
10.0	76.5	34.9	50 500
11.0	74.8	34.7	41 700
12.0	73.0	34.3	34 400
13.0	71.2	34.0	28 300
14.0	69.3	33.6	23 100
15.0	67.5	33.2	18 700
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	96 500
7.0	82.5	38.7	90 700
7.5	81.7	38.6	81 200
8.0	80.9	38.5	73 200
8.5	80.1	38.4	66 300
9.0	79.3	38.3	60 100
10.0	77.7	38.1	49 600
11.0	76.1	37.8	41 200
12.0	74.4	37.5	34 100
13.0	72.8	37.2	28 200
14.0	71.1	36.9	23 200
15.0	69.5	36.5	18 800
16.0	67.8	36.1	15 000
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	81 800
7.5	82.3	41.7	78 900
8.0	81.6	41.6	71 200
8.5	80.9	41.5	64 500
9.0	80.1	41.4	58 600
10.0	78.6	41.2	48 600
11.0	77.2	41.0	40 500
12.0	75.7	40.7	33 700
13.0	74.2	40.4	28 000
14.0	72.6	40.1	23 000
15.0	71.1	39.8	18 800
16.0	69.6	39.4	15 100
18.0	66.4	38.5	8 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	70 000
8.0	82.2	44.7	69 100
8.5	81.5	44.6	62 700
9.0	80.8	44.5	57 000
10.0	79.5	44.3	47 400
11.0	78.1	44.1	39 600
12.0	76.7	43.9	33 000
13.0	75.3	43.6	27 500
14.0	73.9	43.3	22 700
15.0	72.5	43.0	18 600
16.0	71.1	42.6	14 900
18.0	68.2	41.9	8 900
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	67 900
8.0	82.7	47.7	66 900
8.5	82.1	47.7	60 800
9.0	81.4	47.6	55 400
10.0	80.2	47.4	46 200
11.0	78.9	47.2	38 600
12.0	77.6	47.0	32 300
13.0	76.3	46.7	26 900
14.0	75.0	46.5	22 300
15.0	73.7	46.2	18 200
16.0	72.4	45.9	14 700



999 SERIES 2

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(all boom lengths)
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

54.9m (180 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	58 600
9.0	82.0	50.7	53 800
10.0	80.8	50.5	44 900
11.0	79.6	50.3	37 600
12.0	78.4	50.1	31 500
13.0	77.2	49.9	26 200
14.0	76.0	49.6	21 700
15.0	74.8	49.4	17 800
16.0	73.5	49.1	14 300
18.0	71.1	48.4	8 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	56 800
9.0	82.5	53.8	52 300
10.0	81.3	53.6	43 700
11.0	80.2	53.4	36 700
12.0	79.1	53.2	30 700
13.0	78.0	53.0	25 700
14.0	76.8	52.8	21 300
15.0	75.7	52.5	17 500

REFERENCE ONLY!



999 SERIES 2

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating
**Maximum Operating Wind Speeds
(all boom lengths)**
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib
57.9m (190 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	160 700 *
5.5	82.2	26.6	151 500
6.0	81.0	26.5	130 700
6.5	79.8	26.4	114 000
7.0	78.6	26.3	100 200
7.5	77.4	26.1	88 600
8.0	76.2	26.0	78 700
8.5	75.0	25.9	70 100
9.0	73.8	25.7	62 600
10.0	71.3	25.4	50 200
11.0	68.8	25.0	40 400
12.0	66.2	24.5	32 400
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	133 100
6.0	82.0	29.6	125 900
6.5	81.0	29.5	110 200
7.0	79.9	29.4	97 300
7.5	78.9	29.3	86 400
8.0	77.8	29.2	77 100
8.5	76.7	29.0	69 000
9.0	75.6	28.9	61 900
10.0	73.4	28.6	50 000
11.0	71.2	28.2	40 600
12.0	69.0	27.8	32 800
13.0	66.7	27.4	26 400
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	117 900
6.5	81.9	32.6	107 000
7.0	80.9	32.5	94 500
7.5	80.0	32.4	84 300
8.0	79.0	32.3	75 400
8.5	78.1	32.2	67 700
9.0	77.1	32.0	61 000
10.0	75.1	31.8	49 700
11.0	73.2	31.5	40 600
12.0	71.2	31.1	33 100
13.0	69.2	30.7	26 900
14.0	67.1	30.3	21 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	97 800
7.0	81.8	35.6	91 700
7.5	80.9	35.5	81 800
8.0	80.0	35.4	73 400
8.5	79.2	35.3	66 100
9.0	78.3	35.2	59 700
10.0	76.5	34.9	48 800
11.0	74.8	34.7	40 100
12.0	73.0	34.3	32 900
13.0	71.2	34.0	26 800
14.0	69.3	33.6	21 600
15.0	67.5	33.2	17 200
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	94 500
7.0	82.5	38.7	88 700
7.5	81.7	38.6	79 400
8.0	80.9	38.5	71 500
8.5	80.1	38.4	64 500
9.0	79.3	38.3	58 400
10.0	77.7	38.1	48 000
11.0	76.1	37.8	39 600
12.0	74.4	37.5	32 600
13.0	72.8	37.2	26 800
14.0	71.1	36.9	21 800
15.0	69.5	36.5	17 400
16.0	67.8	36.1	13 700
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	80 000
7.5	82.3	41.7	77 100
8.0	81.6	41.6	69 500
8.5	80.9	41.5	62 900
9.0	80.1	41.4	57 000
10.0	78.6	41.2	47 100
11.0	77.2	41.0	39 000
12.0	75.7	40.7	32 200
13.0	74.2	40.4	26 600
14.0	72.6	40.1	21 700
15.0	71.1	39.8	17 500
16.0	69.6	39.4	13 800
18.0	66.4	38.5	7 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	68 400
8.0	82.2	44.7	67 400
8.5	81.5	44.6	61 100
9.0	80.8	44.5	55 500
10.0	79.5	44.3	46 000
11.0	78.1	44.1	38 200
12.0	76.7	43.9	31 600
13.0	75.3	43.6	26 100
14.0	73.9	43.3	21 400
15.0	72.5	43.0	17 300
16.0	71.1	42.6	13 700
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	66 300
8.0	82.7	47.7	65 400
8.5	82.1	47.7	59 300
9.0	81.4	47.6	53 900
10.0	80.2	47.4	44 800
11.0	78.9	47.2	37 300
12.0	77.6	47.0	31 000
13.0	76.3	46.7	25 600
14.0	75.0	46.5	21 000
15.0	73.7	46.2	17 000
16.0	72.4	45.9	13 500
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	57 100
9.0	82.0	50.7	52 400
10.0	80.8	50.5	43 600
11.0	79.6	50.3	36 300
12.0	78.4	50.1	30 200
13.0	77.2	49.9	25 000
14.0	76.0	49.6	20 500
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	55 400
9.0	82.5	53.8	51 000
10.0	81.3	53.6	42 400
11.0	80.2	53.4	35 400
12.0	79.1	53.2	29 500
13.0	78.0	53.0	24 500
14.0	76.8	52.8	20 100
15.0	75.7	52.5	16 300



Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(all boom lengths)

10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

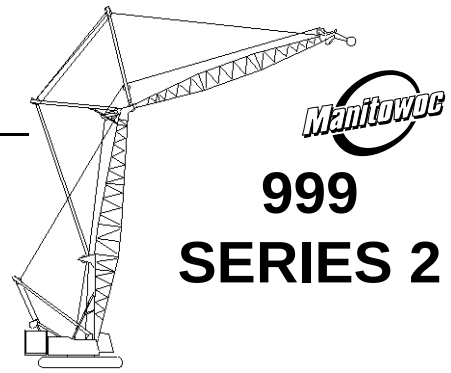
999
SERIES 2

61.0m (200 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	157 800 *
5.5	82.2	26.6	146 800
6.0	81.0	26.5	126 400
6.5	79.8	26.4	109 800
7.0	78.6	26.3	96 200
7.5	77.4	26.1	84 700
8.0	76.2	26.0	74 900
8.5	75.0	25.9	66 400
9.0	73.8	25.7	59 100
10.0	71.3	25.4	46 800
11.0	68.8	25.0	37 100
12.0	66.2	24.5	29 200
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	129 000
6.0	82.0	29.6	121 800
6.5	81.0	29.5	106 400
7.0	79.9	29.4	93 600
7.5	78.9	29.3	82 900
8.0	77.8	29.2	73 600
8.5	76.7	29.0	65 600
9.0	75.6	28.9	58 500
10.0	73.4	28.6	46 800
11.0	71.2	28.2	37 500
12.0	69.0	27.8	29 800
13.0	66.7	27.4	23 400
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	114 200
6.5	81.9	32.6	103 300
7.0	80.9	32.5	91 000
7.5	80.0	32.4	80 900
8.0	79.0	32.3	72 100
8.5	78.1	32.2	64 500
9.0	77.1	32.0	57 900
10.0	75.1	31.8	46 700
11.0	73.2	31.5	37 600
12.0	71.2	31.1	30 300
13.0	69.2	30.7	24 100
14.0	67.1	30.3	18 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	94 400
7.0	81.8	35.6	88 400
7.5	80.9	35.5	78 500
8.0	80.0	35.4	70 300
8.5	79.2	35.3	63 100
9.0	78.3	35.2	56 700
10.0	76.5	34.9	46 000
11.0	74.8	34.7	37 300
12.0	73.0	34.3	30 200
13.0	71.2	34.0	24 200
14.0	69.3	33.6	19 100
15.0	67.5	33.2	14 700
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	91 300
7.0	82.5	38.7	85 600
7.5	81.7	38.6	76 300
8.0	80.9	38.5	68 500
8.5	80.1	38.4	61 600
9.0	79.3	38.3	55 500
10.0	77.7	38.1	45 300
11.0	76.1	37.8	37 000
12.0	74.4	37.5	30 100
13.0	72.8	37.2	24 300
14.0	71.1	36.9	19 300
15.0	69.5	36.5	15 000
16.0	67.8	36.1	11 300
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	77 000
7.5	82.3	41.7	74 200
8.0	81.6	41.6	66 600
8.5	80.9	41.5	60 100
9.0	80.1	41.4	54 300
10.0	78.6	41.2	44 500
11.0	77.2	41.0	36 400
12.0	75.7	40.7	29 800
13.0	74.2	40.4	24 200
14.0	72.6	40.1	19 400
15.0	71.1	39.8	15 200
16.0	69.6	39.4	11 500
18.0	66.4	38.5	5 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	65 600
8.0	82.2	44.7	64 700
8.5	81.5	44.6	58 400
9.0	80.8	44.5	52 900
10.0	79.5	44.3	43 500
11.0	78.1	44.1	35 700
12.0	76.7	43.9	29 300
13.0	75.3	43.6	23 800
14.0	73.9	43.3	19 200
15.0	72.5	43.0	15 100
16.0	71.1	42.6	11 600
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	63 600
8.0	82.7	47.7	62 700
8.5	82.1	47.7	56 700
9.0	81.4	47.6	51 400
10.0	80.2	47.4	42 400
11.0	78.9	47.2	34 900
12.0	77.6	47.0	28 700
13.0	76.3	46.7	23 400
14.0	75.0	46.5	18 900
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	54 600
9.0	82.0	50.7	50 000
10.0	80.8	50.5	41 200
11.0	79.6	50.3	34 000
12.0	78.4	50.1	28 000
13.0	77.2	49.9	22 800
14.0	76.0	49.6	18 400
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	53 000
9.0	82.5	53.8	48 600
10.0	81.3	53.6	40 200
11.0	80.2	53.4	33 300
12.0	79.1	53.2	27 400
13.0	78.0	53.0	22 400
14.0	76.8	52.8	18 100
15.0	75.7	52.5	14 400



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 2**

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(all boom lengths)
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

64.0m (210 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	155 400 *
5.5	82.2	26.6	142 400
6.0	81.0	26.5	122 300
6.5	79.8	26.4	105 900
7.0	78.6	26.3	92 400
7.5	77.4	26.1	81 100
8.0	76.2	26.0	71 400
8.5	75.0	25.9	63 000
9.0	73.8	25.7	55 700
10.0	71.3	25.4	43 600
11.0	68.8	25.0	34 100
12.0	66.2	24.5	26 200
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	125 100
6.0	82.0	29.6	118 000
6.5	81.0	29.5	102 700
7.0	79.9	29.4	90 100
7.5	78.9	29.3	79 500
8.0	77.8	29.2	70 300
8.5	76.7	29.0	62 400
9.0	75.6	28.9	55 400
10.0	73.4	28.6	43 900
11.0	71.2	28.2	34 600
12.0	69.0	27.8	27 100
13.0	66.7	27.4	20 800
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	110 600
6.5	81.9	32.6	99 800
7.0	80.9	32.5	87 700
7.5	80.0	32.4	77 700
8.0	79.0	32.3	69 100
8.5	78.1	32.2	61 600
9.0	77.1	32.0	54 900
10.0	75.1	31.8	43 900
11.0	73.2	31.5	35 000
12.0	71.2	31.1	27 700
13.0	69.2	30.7	21 600
14.0	67.1	30.3	16 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	91 300
7.0	81.8	35.6	85 300
7.5	80.9	35.5	75 500
8.0	80.0	35.4	67 400
8.5	79.2	35.3	60 200
9.0	78.3	35.2	53 900
10.0	76.5	34.9	43 400
11.0	74.8	34.7	34 800
12.0	73.0	34.3	27 700
13.0	71.2	34.0	21 800
14.0	69.3	33.6	16 800
15.0	67.5	33.2	12 400
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	88 200
7.0	82.5	38.7	82 600
7.5	81.7	38.6	73 400
8.0	80.9	38.5	65 700
8.5	80.1	38.4	58 900
9.0	79.3	38.3	52 900
10.0	77.7	38.1	42 800
11.0	76.1	37.8	34 600
12.0	74.4	37.5	27 700
13.0	72.8	37.2	22 000
14.0	71.1	36.9	17 100
15.0	69.5	36.5	12 900
16.0	67.8	36.1	9 200
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	74 300
7.5	82.3	41.7	71 500
8.0	81.6	41.6	64 000
8.5	80.9	41.5	57 500
9.0	80.1	41.4	51 800
10.0	78.6	41.2	42 100
11.0	77.2	41.0	34 100
12.0	75.7	40.7	27 600
13.0	74.2	40.4	22 000
14.0	72.6	40.1	17 200
15.0	71.1	39.8	13 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	63 100
8.0	82.2	44.7	62 200
8.5	81.5	44.6	56 000
9.0	80.8	44.5	50 500
10.0	79.5	44.3	41 100
11.0	78.1	44.1	33 600
12.0	76.7	43.9	27 200
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	61 200
8.0	82.7	47.7	60 300
8.5	82.1	47.7	54 400
9.0	81.4	47.6	49 100
10.0	80.2	47.4	40 200
11.0	78.9	47.2	32 800
12.0	77.6	47.0	26 600
13.0	76.3	46.7	21 400
14.0	75.0	46.5	16 900
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	52 300
9.0	82.0	50.7	47 700
10.0	80.8	50.5	39 100
11.0	79.6	50.3	32 000
12.0	78.4	50.1	26 000
13.0	77.2	49.9	20 900
14.0	76.0	49.6	16 500
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	50 800
9.0	82.5	53.8	46 400
10.0	81.3	53.6	38 100



999 SERIES 2

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds (all boom lengths)

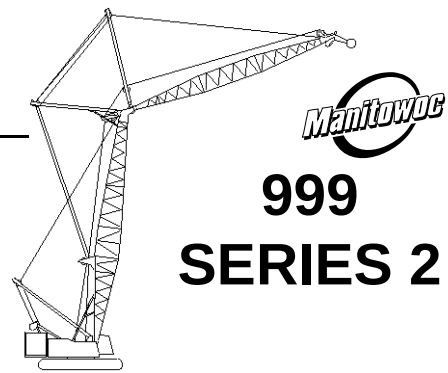
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

67.1m (220 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	152 200 *
5.5	82.2	26.6	137 500
6.0	81.0	26.5	117 700
6.5	79.8	26.4	101 500
7.0	78.6	26.3	88 200
7.5	77.4	26.1	77 000
8.0	76.2	26.0	67 400
8.5	75.0	25.9	59 200
9.0	73.8	25.7	52 000
10.0	71.3	25.4	40 000
11.0	68.8	25.0	30 600
12.0	66.2	24.5	22 900
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	120 700
6.0	82.0	29.6	113 700
6.5	81.0	29.5	98 600
7.0	79.9	29.4	86 200
7.5	78.9	29.3	75 600
8.0	77.8	29.2	66 700
8.5	76.7	29.0	58 800
9.0	75.6	28.9	52 000
10.0	73.4	28.6	40 500
11.0	71.2	28.2	31 400
12.0	69.0	27.8	23 900
13.0	66.7	27.4	17 700
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	106 600
6.5	81.9	32.6	96 000
7.0	80.9	32.5	84 000
7.5	80.0	32.4	74 100
8.0	79.0	32.3	65 600
8.5	78.1	32.2	58 200
9.0	77.1	32.0	51 600
10.0	75.1	31.8	40 700
11.0	73.2	31.5	31 900
12.0	71.2	31.1	24 700
13.0	69.2	30.7	18 700
14.0	67.1	30.3	13 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	87 700
7.0	81.8	35.6	81 800
7.5	80.9	35.5	72 200
8.0	80.0	35.4	64 100
8.5	79.2	35.3	57 100
9.0	78.3	35.2	50 800
10.0	76.5	34.9	40 400
11.0	74.8	34.7	31 900
12.0	73.0	34.3	24 900
13.0	71.2	34.0	19 100
14.0	69.3	33.6	14 100
15.0	67.5	33.2	9 800
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	84 900
7.0	82.5	38.7	79 300
7.5	81.7	38.6	70 200
8.0	80.9	38.5	62 600
8.5	80.1	38.4	55 900
9.0	79.3	38.3	50 000
10.0	77.7	38.1	39 900
11.0	76.1	37.8	31 800
12.0	74.4	37.5	25 100
13.0	72.8	37.2	19 400
14.0	71.1	36.9	14 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	71 200
7.5	82.3	41.7	68 400
8.0	81.6	41.6	61 000
8.5	80.9	41.5	54 600
9.0	80.1	41.4	48 900
10.0	78.6	41.2	39 400
11.0	77.2	41.0	31 500
12.0	75.7	40.7	25 000
13.0	74.2	40.4	19 500
14.0	72.6	40.1	14 800
15.0	71.1	39.8	10 700
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	60 200
8.0	82.2	44.7	59 300
8.5	81.5	44.6	53 200
9.0	80.8	44.5	47 700
10.0	79.5	44.3	38 500
11.0	78.1	44.1	31 000
12.0	76.7	43.9	24 700



999 SERIES 2

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(all boom lengths)

10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

70.1m (230 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	148 300
5.5	82.2	26.6	133 300
6.0	81.0	26.5	113 700
6.5	79.8	26.4	97 800
7.0	78.6	26.3	84 600
7.5	77.4	26.1	73 500
8.0	76.2	26.0	64 100
8.5	75.0	25.9	56 000
9.0	73.8	25.7	48 900
10.0	71.3	25.4	37 100
11.0	68.8	25.0	27 700
12.0	66.2	24.5	20 100
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	117 000
6.0	82.0	29.6	110 100
6.5	81.0	29.5	95 200
7.0	79.9	29.4	82 900
7.5	78.9	29.3	72 500
8.0	77.8	29.2	63 600
8.5	76.7	29.0	55 800
9.0	75.6	28.9	49 000
10.0	73.4	28.6	37 800
11.0	71.2	28.2	28 800
12.0	69.0	27.8	21 400
13.0	66.7	27.4	15 200
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	103 300
6.5	81.9	32.6	92 800
7.0	80.9	32.5	80 900
7.5	80.0	32.4	71 100
8.0	79.0	32.3	62 700
8.5	78.1	32.2	55 400
9.0	77.1	32.0	48 900
10.0	75.1	31.8	38 100
11.0	73.2	31.5	29 500
12.0	71.2	31.1	22 400
13.0	69.2	30.7	16 400
14.0	67.1	30.3	11 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	84 700
7.0	81.8	35.6	78 900
7.5	80.9	35.5	69 300
8.0	80.0	35.4	61 400
8.5	79.2	35.3	54 400
9.0	78.3	35.2	48 200
10.0	76.5	34.9	37 900
11.0	74.8	34.7	29 600
12.0	73.0	34.3	22 700
13.0	71.2	34.0	16 900
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	82 000
7.0	82.5	38.7	76 500
7.5	81.7	38.6	67 600
8.0	80.9	38.5	60 000
8.5	80.1	38.4	53 400
9.0	79.3	38.3	47 500
10.0	77.7	38.1	37 700
11.0	76.1	37.8	29 600
12.0	74.4	37.5	22 900
13.0	72.8	37.2	17 400
14.0	71.1	36.9	12 600
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	68 600
7.5	82.3	41.7	65 900
8.0	81.6	41.6	58 500
8.5	80.9	41.5	52 200
9.0	80.1	41.4	46 700
10.0	78.6	41.2	37 200
11.0	77.2	41.0	29 400
12.0	75.7	40.7	23 000


999
SERIES 2

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82
Luffing Jib No. 149
83 730 kg Crane Counterweight
19 960 kg Carbody Counterweight
360 Degree Rating
**Maximum Operating Wind Speeds
(all boom lengths)**

10 m/s with 21.3m thru 33.5m Luffing Jib

7 m/s with 36.6m thru 61.0m Luffing Jib

5 m/s with 64.0m thru 73.2m Luffing Jib

73.2m (240 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
24.4m (80 Ft.) BOOM			
5.2	83.0	26.6	143 100
5.5	82.2	26.6	128 300
6.0	81.0	26.5	108 900
6.5	79.8	26.4	93 200
7.0	78.6	26.3	80 200
7.5	77.4	26.1	69 300
8.0	76.2	26.0	60 000
8.5	75.0	25.9	51 900
9.0	73.8	25.7	44 900
10.0	71.3	25.4	33 300
11.0	68.8	25.0	24 100
12.0	66.2	24.5	16 600
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	112 400
6.0	82.0	29.6	105 600
6.5	81.0	29.5	90 900
7.0	79.9	29.4	78 700
7.5	78.9	29.3	68 500
8.0	77.8	29.2	59 700
8.5	76.7	29.0	52 100
9.0	75.6	28.9	45 400
10.0	73.4	28.6	34 300
11.0	71.2	28.2	25 400
12.0	69.0	27.8	18 100
13.0	66.7	27.4	12 100
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	99 100
6.5	81.9	32.6	88 800
7.0	80.9	32.5	77 000
7.5	80.0	32.4	67 400
8.0	79.0	32.3	59 100
8.5	78.1	32.2	51 800
9.0	77.1	32.0	45 500
10.0	75.1	31.8	34 800
11.0	73.2	31.5	26 300
12.0	71.2	31.1	19 300
13.0	69.2	30.7	13 400
14.0	67.1	30.3	8 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	81 000
7.0	81.8	35.6	75 200
7.5	80.9	35.5	65 800
8.0	80.0	35.4	58 000
8.5	79.2	35.3	51 100
9.0	78.3	35.2	45 000
10.0	76.5	34.9	34 800
11.0	74.8	34.7	26 600
12.0	73.0	34.3	19 800
13.0	71.2	34.0	14 100
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	78 500
7.0	82.5	38.7	73 100
7.5	81.7	38.6	64 200
8.0	80.9	38.5	56 800
8.5	80.1	38.4	50 200
9.0	79.3	38.3	44 400
10.0	77.7	38.1	34 700
11.0	76.1	37.8	26 700