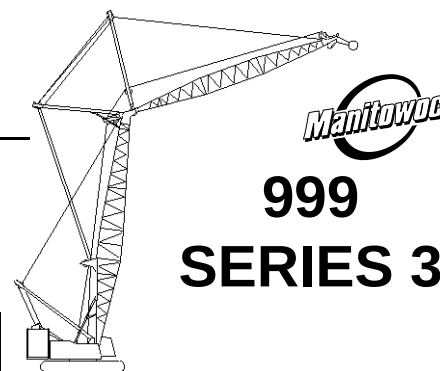




Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 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.

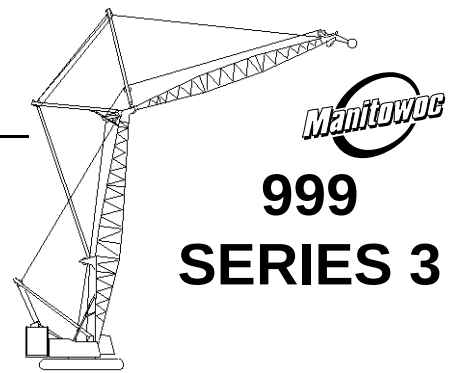
MACHINE EQUIPMENT: Machine equipped with 8 585 mm crawlers, 1 219 mm treads, 3 124 mm retractable gantry, 9 144 mm live mast, 20 part boom hoist reeving, boom support straps, 9 part luffing jib hoist reeving, luffing jib straps, two 38 mm luffing jib backstay pendants, 99 610 kg crane counterweight, two 9 980 kg and two 8 165 kg carbody counterweights.

Consult chart **No. 8421-AM** for main luffing jib capacities. Consult chart **No. 8350-AM** for intermediate fall capacities.

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

Boom Catwalks Deduct

Deduct 150 kg from capacities when boom catwalks are attached.
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999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 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

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

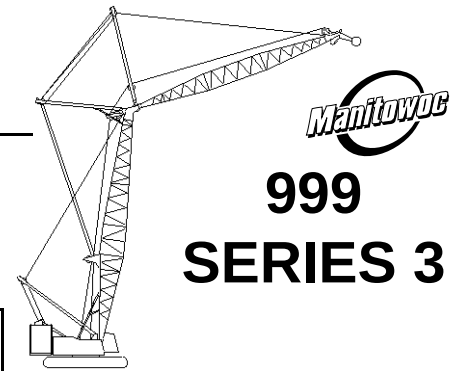
Luffing Jib Position During Operation	
Luffing Jib Length - Meters	Boom To Luffing Jib Angle
21.3	140 Degrees
24.4 - 27.4	150 Degrees
30.5 - 36.6	160 Degrees
39.6 - 73.2	168 Degrees

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	185 400 *
5.5	82.2	26.6	178 300 *
6.0	81.0	26.5	163 100 *
6.5	79.8	26.4	150 100 *
7.0	78.6	26.3	138 900 *
7.5	77.4	26.1	129 100 *
8.0	76.2	26.0	120 400 *
8.5	75.0	25.9	112 700 *
9.0	73.8	25.7	105 800 *
10.0	71.3	25.4	93 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	169 000 *
6.0	82.0	29.6	163 100 *
6.5	81.0	29.5	150 100 *
7.0	79.9	29.4	138 800 *
7.5	78.9	29.3	129 000 *
8.0	77.8	29.2	120 400 *
8.5	76.7	29.0	112 600 *
9.0	75.6	28.9	104 700
10.0	73.4	28.6	90 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	151 000 *
6.5	81.9	32.6	147 300 *
7.0	80.9	32.5	140 200 *
7.5	80.0	32.4	129 000
8.0	79.0	32.3	119 200
8.5	78.1	32.2	109 800
9.0	77.1	32.0	101 500
10.0	75.1	31.8	87 800
11.0	73.2	31.5	76 800
12.0	71.2	31.1	67 700



999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 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

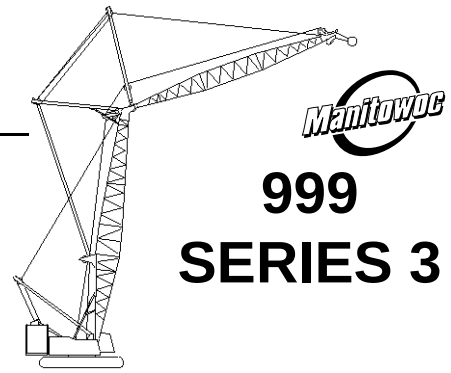
21.3m (70 Ft.) Luffing Jib, Attached at 140 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	136 900 *
7.0	81.8	35.6	133 300
7.5	80.9	35.5	126 000
8.0	80.0	35.4	115 100
8.5	79.2	35.3	106 200
9.0	78.3	35.2	98 400
10.0	76.5	34.9	85 300
11.0	74.8	34.7	74 700
12.0	73.0	34.3	65 900
13.0	71.2	34.0	58 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	132 400 *
7.0	82.5	38.7	128 700
7.5	81.7	38.6	121 700
8.0	80.9	38.5	111 400
8.5	80.1	38.4	103 000
9.0	79.3	38.3	95 500
10.0	77.7	38.1	83 000
11.0	76.1	37.8	72 800
12.0	74.4	37.5	64 400
13.0	72.8	37.2	57 300
14.0	71.1	36.9	51 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	119 000 *
7.5	82.3	41.7	116 000
8.0	81.6	41.6	108 000
8.5	80.9	41.5	99 900
9.0	80.1	41.4	92 800
10.0	78.6	41.2	80 800
11.0	77.2	41.0	71 000
12.0	75.7	40.7	62 800
13.0	74.2	40.4	56 000
14.0	72.6	40.1	50 000
15.0	71.1	39.8	45 000

REFERENCE



999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

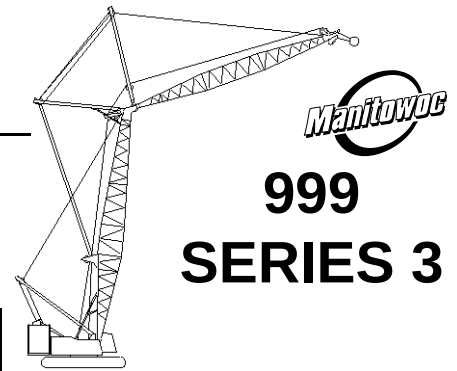
Maximum Operating Wind Speeds
(all boom lengths)
10 m/s with 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

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
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	105 600
8.0	82.2	44.7	104 500
8.5	81.5	44.6	96 900
9.0	80.8	44.5	90 000
10.0	79.5	44.3	78 500
11.0	78.1	44.1	69 100
12.0	76.7	43.9	61 200
13.0	75.3	43.6	54 600
14.0	73.9	43.3	48 900
15.0	72.5	43.0	43 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	101 900 *
8.0	82.7	47.7	100 800
8.5	82.1	47.7	93 900
9.0	81.4	47.6	87 400
10.0	80.2	47.4	76 300
11.0	78.9	47.2	67 300
12.0	77.6	47.0	59 600
13.0	76.3	46.7	53 200
14.0	75.0	46.5	47 600
15.0	73.7	46.2	42 800
16.0	72.4	45.9	38 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	90 500
9.0	82.0	50.7	84 800
10.0	80.8	50.5	74 200
11.0	79.6	50.3	65 400
12.0	78.4	50.1	58 100
13.0	77.2	49.9	51 800
14.0	76.0	49.6	46 400
15.0	74.8	49.4	41 700
16.0	73.5	49.1	37 500
18.0	71.1	48.4	30 700



999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 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

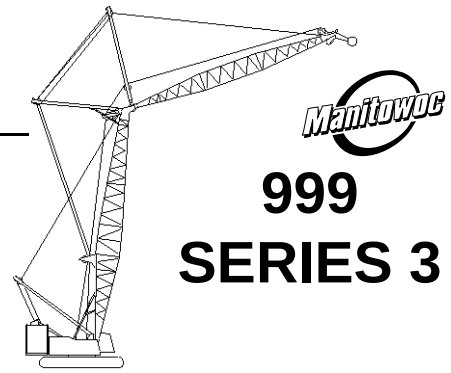
21.3m (70 Ft.) Luffing Jib, Attached at 140 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	87 900
9.0	82.5	53.8	82 500
10.0	81.3	53.6	72 200
11.0	80.2	53.4	63 800
12.0	79.1	53.2	56 700
13.0	78.0	53.0	50 600
14.0	76.8	52.8	45 300
15.0	75.7	52.5	40 700
16.0	74.5	52.2	36 700
18.0	72.2	51.6	30 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	78 400
10.0	81.8	56.7	70 200
11.0	80.8	56.5	62 000
12.0	79.7	56.3	55 100
13.0	78.6	56.1	49 200
14.0	77.6	55.9	44 100
15.0	76.5	55.7	39 700
16.0	75.4	55.4	35 700
18.0	73.2	54.8	29 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 500 *
12.0	80.3	59.4	53 100
13.0	79.2	59.3	48 400
14.0	78.2	59.0	43 400
15.0	77.2	58.8	39 100
16.0	76.2	58.6	35 200
18.0	74.2	58.0	28 700
20.0	72.1	57.4	23 500

REFERENCE



999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(all boom lengths)
10 m/s 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	183 600 *
5.5	82.2	26.6	178 300 *
6.0	81.0	26.5	163 000 *
6.5	79.8	26.4	150 000 *
7.0	78.6	26.3	138 700 *
7.5	77.4	26.1	128 800 *
8.0	76.2	26.0	120 000 *
8.5	75.0	25.9	112 200 *
9.0	73.8	25.7	105 200 *
10.0	71.3	25.4	91 800
11.0	68.8	25.0	79 600
12.0	66.2	24.5	69 700

27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	169 000 *
6.0	82.0	29.6	163 100 *
6.5	81.0	29.5	150 000 *
7.0	79.9	29.4	138 700 *
7.5	78.9	29.3	128 800 *
8.0	77.8	29.2	120 000 *
8.5	76.7	29.0	112 300 *
9.0	75.6	28.9	104 000
10.0	73.4	28.6	89 200
11.0	71.2	28.2	77 600
12.0	69.0	27.8	68 100
13.0	66.7	27.4	60 200

30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	149 500 *
6.5	81.9	32.6	146 800 *
7.0	80.9	32.5	140 200 *
7.5	80.0	32.4	128 700
8.0	79.0	32.3	118 600
8.5	78.1	32.2	109 100
9.0	77.1	32.0	100 800
10.0	75.1	31.8	87 000
11.0	73.2	31.5	75 800
12.0	71.2	31.1	66 700
13.0	69.2	30.7	59 000
14.0	67.1	30.3	52 600

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	135 500 *
7.0	81.8	35.6	132 300
7.5	80.9	35.5	125 700
8.0	80.0	35.4	114 600
8.5	79.2	35.3	105 700
9.0	78.3	35.2	97 800
10.0	76.5	34.9	84 500
11.0	74.8	34.7	73 800
12.0	73.0	34.3	65 000
13.0	71.2	34.0	57 600
14.0	69.3	33.6	51 300
15.0	67.5	33.2	45 900

36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	131 300 *
7.0	82.5	38.7	128 000
7.5	81.7	38.6	121 400
8.0	80.9	38.5	110 900
8.5	80.1	38.4	102 500
9.0	79.3	38.3	95 000
10.0	77.7	38.1	82 300
11.0	76.1	37.8	72 000
12.0	74.4	37.5	63 500
13.0	72.8	37.2	56 400
14.0	71.1	36.9	50 300
15.0	69.5	36.5	45 000
16.0	67.8	36.1	40 400

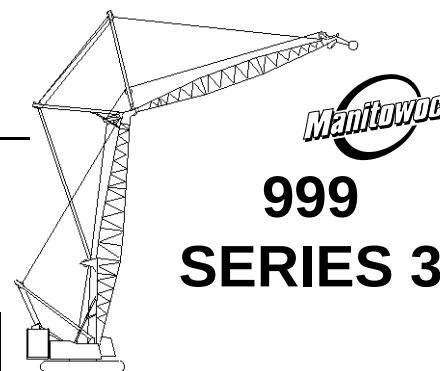
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	119 000 *
7.5	82.3	41.7	115 900
8.0	81.6	41.6	107 500
8.5	80.9	41.5	99 400
9.0	80.1	41.4	92 200
10.0	78.6	41.2	80 200
11.0	77.2	41.0	70 300
12.0	75.7	40.7	62 100
13.0	74.2	40.4	55 100
14.0	72.6	40.1	49 200
15.0	71.1	39.8	44 100
16.0	69.6	39.4	39 600
18.0	66.4	38.5	32 100

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	105 300
8.0	82.2	44.7	104 100
8.5	81.5	44.6	96 400
9.0	80.8	44.5	89 600
10.0	79.5	44.3	77 900
11.0	78.1	44.1	68 500
12.0	76.7	43.9	60 500
13.0	75.3	43.6	53 800
14.0	73.9	43.3	48 100
15.0	72.5	43.0	43 000
16.0	71.1	42.6	38 700
18.0	68.2	41.9	31 400

45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	101 000 *
8.0	82.7	47.7	100 000
8.5	82.1	47.7	93 400
9.0	81.4	47.6	87 000
10.0	80.2	47.4	75 800
11.0	78.9	47.2	66 700
12.0	77.6	47.0	59 000
13.0	76.3	46.7	52 500
14.0	75.0	46.5	46 900
15.0	73.7	46.2	42 000
16.0	72.4	45.9	37 700
18.0	69.7	45.1	30 600
20.0	67.0	44.3	24 900

48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	90 100
9.0	82.0	50.7	84 400
10.0	80.8	50.5	73 700
11.0	79.6	50.3	64 900
12.0	78.4	50.1	57 400
13.0	77.2	49.9	51 100
14.0	76.0	49.6	45 700
15.0	74.8	49.4	41 000
16.0	73.5	49.1	36 800
18.0	71.1	48.4	29 800
20.0	68.5	47.6	24 200



999

SERIES 3

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82

Luffing Jib No. 149

99 610 kg Crane Counterweight

36 290 kg Carbody Counterweight

360 Degree Rating

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

**10 m/s 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**

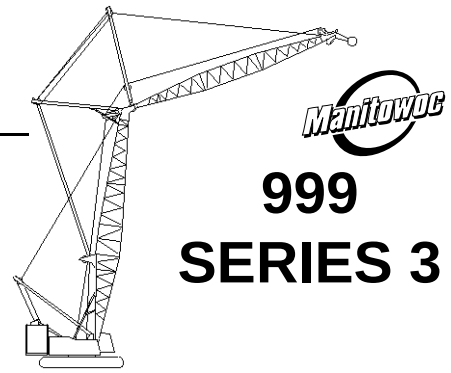
24.4m (80 Ft.) Luffing Jib, Attached at 150 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	87 300 *
9.0	82.5	53.8	82 000
10.0	81.3	53.6	71 800
11.0	80.2	53.4	63 200
12.0	79.1	53.2	56 100
13.0	78.0	53.0	50 000
14.0	76.8	52.8	44 600
15.0	75.7	52.5	40 000
16.0	74.5	52.2	36 000
18.0	72.2	51.6	29 200
20.0	69.9	50.9	23 700
22.0	67.5	50.1	19 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	78 100
10.0	81.8	56.7	69 700
11.0	80.8	56.5	61 500
12.0	79.7	56.3	54 600
13.0	78.6	56.1	48 600
14.0	77.6	55.9	43 500
15.0	76.5	55.7	39 000
16.0	75.4	55.4	35 000
18.0	73.2	54.8	28 400
20.0	71.0	54.1	23 000
22.0	68.8	53.4	18 500
24.0	66.5	52.5	14 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 500 *
12.0	80.3	59.4	52 800
13.0	79.2	59.3	47 800
14.0	78.2	59.0	42 800
15.0	77.2	58.8	38 400
16.0	76.2	58.6	34 600
18.0	74.2	58.0	28 000
20.0	72.1	57.4	22 700
22.0	70.0	56.7	18 300
24.0	67.8	55.9	14 700

REFERENCE



999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

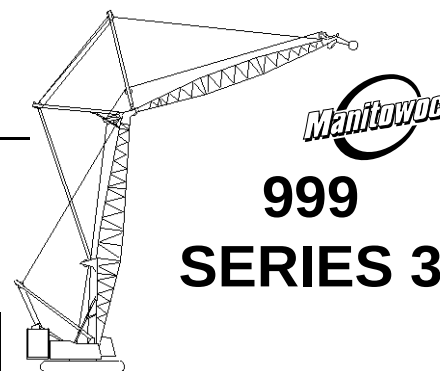
Maximum Operating Wind Speeds
(all boom lengths)
10 m/s 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

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	182 300 *
5.5	82.2	26.6	176 400 *
6.0	81.0	26.5	161 200 *
6.5	79.8	26.4	148 200 *
7.0	78.6	26.3	137 000 *
7.5	77.4	26.1	127 100 *
8.0	76.2	26.0	118 400 *
8.5	75.0	25.9	110 600 *
9.0	73.8	25.7	103 700 *
10.0	71.3	25.4	89 300
11.0	68.8	25.0	77 300
12.0	66.2	24.5	67 600
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	167 200 *
6.0	82.0	29.6	161 300 *
6.5	81.0	29.5	148 200 *
7.0	79.9	29.4	136 900 *
7.5	78.9	29.3	127 100 *
8.0	77.8	29.2	118 400
8.5	76.7	29.0	109 800
9.0	75.6	28.9	101 400
10.0	73.4	28.6	86 900
11.0	71.2	28.2	75 400
12.0	69.0	27.8	66 100
13.0	66.7	27.4	58 200
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	148 400 *
6.5	81.9	32.6	145 200 *
7.0	80.9	32.5	138 500 *
7.5	80.0	32.4	126 900
8.0	79.0	32.3	115 900
8.5	78.1	32.2	106 600
9.0	77.1	32.0	98 400
10.0	75.1	31.8	84 800
11.0	73.2	31.5	73 700
12.0	71.2	31.1	64 700
13.0	69.2	30.7	57 200
14.0	67.1	30.3	50 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	134 400 *
7.0	81.8	35.6	130 500
7.5	80.9	35.5	122 900
8.0	80.0	35.4	112 100
8.5	79.2	35.3	103 200
9.0	78.3	35.2	95 500
10.0	76.5	34.9	82 400
11.0	74.8	34.7	71 800
12.0	73.0	34.3	63 100
13.0	71.2	34.0	55 700
14.0	69.3	33.6	49 600
15.0	67.5	33.2	44 200
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	130 400 *
7.0	82.5	38.7	126 300
7.5	81.7	38.6	118 700
8.0	80.9	38.5	108 500
8.5	80.1	38.4	100 200
9.0	79.3	38.3	92 800
10.0	77.7	38.1	80 200
11.0	76.1	37.8	70 100
12.0	74.4	37.5	61 700
13.0	72.8	37.2	54 600
14.0	71.1	36.9	48 600
15.0	69.5	36.5	43 300
16.0	67.8	36.1	38 800
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	117 800
7.5	82.3	41.7	114 400
8.0	81.6	41.6	105 200
8.5	80.9	41.5	97 200
9.0	80.1	41.4	90 100
10.0	78.6	41.2	78 100
11.0	77.2	41.0	68 400
12.0	75.7	40.7	60 300
13.0	74.2	40.4	53 400
14.0	72.6	40.1	47 600
15.0	71.1	39.8	42 500
16.0	69.6	39.4	38 000
18.0	66.4	38.5	30 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	103 000
8.0	82.2	44.7	101 900
8.5	81.5	44.6	94 300
9.0	80.8	44.5	87 500
10.0	79.5	44.3	76 000
11.0	78.1	44.1	66 600
12.0	76.7	43.9	58 800
13.0	75.3	43.6	52 100
14.0	73.9	43.3	46 400
15.0	72.5	43.0	41 500
16.0	71.1	42.6	37 200
18.0	68.2	41.9	30 000
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	99 700
8.0	82.7	47.7	98 600
8.5	82.1	47.7	91 400
9.0	81.4	47.6	84 900
10.0	80.2	47.4	73 900
11.0	78.9	47.2	64 900
12.0	77.6	47.0	57 300
13.0	76.3	46.7	50 800
14.0	75.0	46.5	45 300
15.0	73.7	46.2	40 500
16.0	72.4	45.9	36 200
18.0	69.7	45.1	29 200
20.0	67.0	44.3	23 600
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	88 100
9.0	82.0	50.7	82 500
10.0	80.8	50.5	71 800
11.0	79.6	50.3	63 100
12.0	78.4	50.1	55 800
13.0	77.2	49.9	49 500
14.0	76.0	49.6	44 100
15.0	74.8	49.4	39 400
16.0	73.5	49.1	35 300
18.0	71.1	48.4	28 400
20.0	68.5	47.6	22 900



999

SERIES 3

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82

Luffing Jib No. 149

99 610 kg Crane Counterweight

36 290 kg Carbody Counterweight

360 Degree Rating

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

10 m/s 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

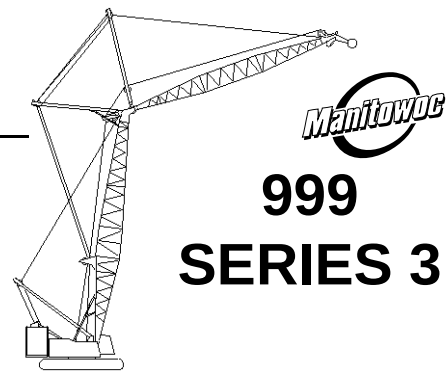
27.4m (90 Ft.) Luffing Jib, Attached at 150 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	85 500
9.0	82.5	53.8	80 200
10.0	81.3	53.6	69 900
11.0	80.2	53.4	61 500
12.0	79.1	53.2	54 400
13.0	78.0	53.0	48 400
14.0	76.8	52.8	43 100
15.0	75.7	52.5	38 600
16.0	74.5	52.2	34 500
18.0	72.2	51.6	27 800
20.0	69.9	50.9	22 400
22.0	67.5	50.1	17 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	76 200
10.0	81.8	56.7	68 000
11.0	80.8	56.5	59 800
12.0	79.7	56.3	53 000
13.0	78.6	56.1	47 100
14.0	77.6	55.9	42 000
15.0	76.5	55.7	37 600
16.0	75.4	55.4	33 700
18.0	73.2	54.8	27 000
20.0	71.0	54.1	21 700
22.0	68.8	53.4	17 300
24.0	66.5	52.5	13 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 500 *
12.0	80.3	59.4	51 700
13.0	79.2	59.3	46 300
14.0	78.2	59.0	41 400
15.0	77.2	58.8	37 000
16.0	76.2	58.6	33 200
18.0	74.2	58.0	26 700
20.0	72.1	57.4	21 500
22.0	70.0	56.7	17 100
24.0	67.8	55.9	13 500

REFERENCE ONLY



999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(all boom lengths)
10 m/s 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	177 800 *
6.0	81.0	26.5	162 300 *
6.5	79.8	26.4	149 100 *
7.0	78.6	26.3	137 700 *
7.5	77.4	26.1	127 700 *
8.0	76.2	26.0	118 800 *
8.5	75.0	25.9	111 000 *
9.0	73.8	25.7	103 900
10.0	71.3	25.4	89 100
11.0	68.8	25.0	76 900
12.0	66.2	24.5	66 900
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	168 500 *
6.0	82.0	29.6	162 500 *
6.5	81.0	29.5	149 200 *
7.0	79.9	29.4	137 800 *
7.5	78.9	29.3	127 800 *
8.0	77.8	29.2	118 900
8.5	76.7	29.0	110 300
9.0	75.6	28.9	101 700
10.0	73.4	28.6	86 900
11.0	71.2	28.2	75 200
12.0	69.0	27.8	65 600
13.0	66.7	27.4	57 600
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	146 600 *
6.5	81.9	32.6	144 200 *
7.0	80.9	32.5	138 500 *
7.5	80.0	32.4	127 800
8.0	79.0	32.3	116 600
8.5	78.1	32.2	107 100
9.0	77.1	32.0	98 800
10.0	75.1	31.8	84 900
11.0	73.2	31.5	73 700
12.0	71.2	31.1	64 400
13.0	69.2	30.7	56 700
14.0	67.1	30.3	50 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	132 800 *
7.0	81.8	35.6	130 100
7.5	80.9	35.5	124 200
8.0	80.0	35.4	112 800
8.5	79.2	35.3	103 800
9.0	78.3	35.2	95 900
10.0	76.5	34.9	82 600
11.0	74.8	34.7	71 800
12.0	73.0	34.3	62 900
13.0	71.2	34.0	55 400
14.0	69.3	33.6	49 100
15.0	67.5	33.2	43 700
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	128 800 *
7.0	82.5	38.7	126 000
7.5	81.7	38.6	120 000
8.0	80.9	38.5	109 400
8.5	80.1	38.4	100 800
9.0	79.3	38.3	93 300
10.0	77.7	38.1	80 500
11.0	76.1	37.8	70 200
12.0	74.4	37.5	61 600
13.0	72.8	37.2	54 400
14.0	71.1	36.9	48 200
15.0	69.5	36.5	42 900
16.0	67.8	36.1	38 200
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	118 000 *
7.5	82.3	41.7	114 700
8.0	81.6	41.6	106 000
8.5	80.9	41.5	97 900
9.0	80.1	41.4	90 700
10.0	78.6	41.2	78 500
11.0	77.2	41.0	68 500
12.0	75.7	40.7	60 300
13.0	74.2	40.4	53 300
14.0	72.6	40.1	47 300
15.0	71.1	39.8	42 100
16.0	69.6	39.4	37 600
18.0	66.4	38.5	30 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	103 900
8.0	82.2	44.7	102 700
8.5	81.5	44.6	95 000
9.0	80.8	44.5	88 100
10.0	79.5	44.3	76 400
11.0	78.1	44.1	66 800
12.0	76.7	43.9	58 800
13.0	75.3	43.6	52 000
14.0	73.9	43.3	46 200
15.0	72.5	43.0	41 200
16.0	71.1	42.6	36 800
18.0	68.2	41.9	29 400
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	99 400 *
8.0	82.7	47.7	98 500
8.5	82.1	47.7	92 100
9.0	81.4	47.6	85 600
10.0	80.2	47.4	74 300
11.0	78.9	47.2	65 100
12.0	77.6	47.0	57 300
13.0	76.3	46.7	50 800
14.0	75.0	46.5	45 100
15.0	73.7	46.2	40 200
16.0	72.4	45.9	35 900
18.0	69.7	45.1	28 700
20.0	67.0	44.3	23 000
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	88 800
9.0	82.0	50.7	83 100
10.0	80.8	50.5	72 200
11.0	79.6	50.3	63 400
12.0	78.4	50.1	55 900
13.0	77.2	49.9	49 500
14.0	76.0	49.6	44 100
15.0	74.8	49.4	39 300
16.0	73.5	49.1	35 000
18.0	71.1	48.4	28 000
20.0	68.5	47.6	22 400


999
SERIES 3

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating
**Maximum Operating Wind Speeds
(all boom lengths)**

 10 m/s 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	85 700 *
9.0	82.5	53.8	80 700
10.0	81.3	53.6	70 400
11.0	80.2	53.4	61 800
12.0	79.1	53.2	54 600
13.0	78.0	53.0	48 400
14.0	76.8	52.8	43 100
15.0	75.7	52.5	38 400
16.0	74.5	52.2	34 300
18.0	72.2	51.6	27 400
20.0	69.9	50.9	21 900
22.0	67.5	50.1	17 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	76 800
10.0	81.8	56.7	68 400
11.0	80.8	56.5	60 200
12.0	79.7	56.3	53 100
13.0	78.6	56.1	47 200
14.0	77.6	55.9	42 000
15.0	76.5	55.7	37 500
16.0	75.4	55.4	33 500
18.0	73.2	54.8	26 700
20.0	71.0	54.1	21 300
22.0	68.8	53.4	16 800
24.0	66.5	52.5	13 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 500 *
12.0	80.3	59.4	51 800
13.0	79.2	59.3	46 400
14.0	78.2	59.0	41 300
15.0	77.2	58.8	36 900
16.0	76.2	58.6	33 000
18.0	74.2	58.0	26 400
20.0	72.1	57.4	21 100
22.0	70.0	56.7	16 700
24.0	67.8	55.9	13 000

REFERENCE ONLY



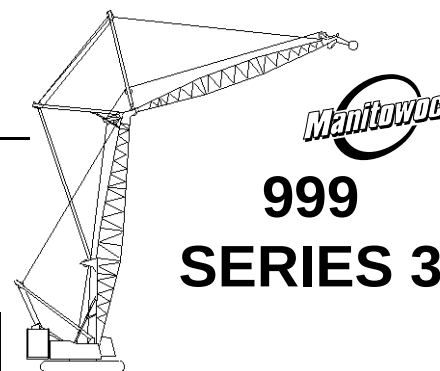
999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating
**Maximum Operating Wind Speeds
(all boom lengths)**
10 m/s 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	176 300 *
6.0	81.0	26.5	161 000 *
6.5	79.8	26.4	147 900 *
7.0	78.6	26.3	136 500 *
7.5	77.4	26.1	126 500 *
8.0	76.2	26.0	117 700 *
8.5	75.0	25.9	109 800 *
9.0	73.8	25.7	102 200
10.0	71.3	25.4	87 300
11.0	68.8	25.0	75 200
12.0	66.2	24.5	65 300
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	167 200 *
6.0	82.0	29.6	161 200 *
6.5	81.0	29.5	148 000 *
7.0	79.9	29.4	136 600 *
7.5	78.9	29.3	126 700 *
8.0	77.8	29.2	117 800
8.5	76.7	29.0	108 500
9.0	75.6	28.9	99 800
10.0	73.4	28.6	85 200
11.0	71.2	28.2	73 600
12.0	69.0	27.8	64 100
13.0	66.7	27.4	56 100
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	145 100 *
6.5	81.9	32.6	142 700 *
7.0	80.9	32.5	136 900
7.5	80.0	32.4	126 100
8.0	79.0	32.3	114 800
8.5	78.1	32.2	105 400
9.0	77.1	32.0	97 100
10.0	75.1	31.8	83 300
11.0	73.2	31.5	72 100
12.0	71.2	31.1	62 900
13.0	69.2	30.7	55 300
14.0	67.1	30.3	48 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	131 400 *
7.0	81.8	35.6	128 600
7.5	80.9	35.5	122 300
8.0	80.0	35.4	111 100
8.5	79.2	35.3	102 200
9.0	78.3	35.2	94 300
10.0	76.5	34.9	81 000
11.0	74.8	34.7	70 400
12.0	73.0	34.3	61 500
13.0	71.2	34.0	54 100
14.0	69.3	33.6	47 800
15.0	67.5	33.2	42 400
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	127 600 *
7.0	82.5	38.7	124 500
7.5	81.7	38.6	118 200
8.0	80.9	38.5	107 700
8.5	80.1	38.4	99 200
9.0	79.3	38.3	91 700
10.0	77.7	38.1	79 000
11.0	76.1	37.8	68 800
12.0	74.4	37.5	60 300
13.0	72.8	37.2	53 100
14.0	71.1	36.9	47 000
15.0	69.5	36.5	41 700
16.0	67.8	36.1	37 100
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	117 200
7.5	82.3	41.7	113 700
8.0	81.6	41.6	104 400
8.5	80.9	41.5	96 300
9.0	80.1	41.4	89 200
10.0	78.6	41.2	77 100
11.0	77.2	41.0	67 200
12.0	75.7	40.7	59 000
13.0	74.2	40.4	52 000
14.0	72.6	40.1	46 100
15.0	71.1	39.8	41 000
16.0	69.6	39.4	36 400
18.0	66.4	38.5	29 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	102 300
8.0	82.2	44.7	101 200
8.5	81.5	44.6	93 500
9.0	80.8	44.5	86 600
10.0	79.5	44.3	75 000
11.0	78.1	44.1	65 500
12.0	76.7	43.9	57 600
13.0	75.3	43.6	50 900
14.0	73.9	43.3	45 100
15.0	72.5	43.0	40 100
16.0	71.1	42.6	35 700
18.0	68.2	41.9	28 400
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	98 700 *
8.0	82.7	47.7	97 600
8.5	82.1	47.7	90 600
9.0	81.4	47.6	84 100
10.0	80.2	47.4	73 000
11.0	78.9	47.2	63 800
12.0	77.6	47.0	56 200
13.0	76.3	46.7	49 600
14.0	75.0	46.5	44 000
15.0	73.7	46.2	39 100
16.0	72.4	45.9	34 800
18.0	69.7	45.1	27 700
20.0	67.0	44.3	22 000
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	87 400
9.0	82.0	50.7	81 700
10.0	80.8	50.5	70 900
11.0	79.6	50.3	62 100
12.0	78.4	50.1	54 700
13.0	77.2	49.9	48 400
14.0	76.0	49.6	43 000
15.0	74.8	49.4	38 200
16.0	73.5	49.1	34 000
18.0	71.1	48.4	27 000
20.0	68.5	47.6	21 400



999

SERIES 3

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82

Luffing Jib No. 149

99 610 kg Crane Counterweight

36 290 kg Carbody Counterweight

360 Degree Rating

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

10 m/s 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

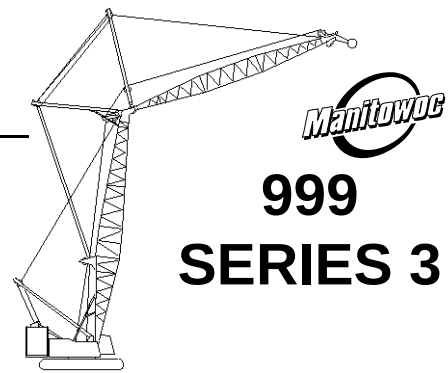
33.5m (110 Ft.) Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	85 000
9.0	82.5	53.8	79 500
10.0	81.3	53.6	69 100
11.0	80.2	53.4	60 600
12.0	79.1	53.2	53 400
13.0	78.0	53.0	47 300
14.0	76.8	52.8	42 000
15.0	75.7	52.5	37 400
16.0	74.5	52.2	33 300
18.0	72.2	51.6	26 500
20.0	69.9	50.9	21 000
22.0	67.5	50.1	16 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	75 500
10.0	81.8	56.7	67 200
11.0	80.8	56.5	59 000
12.0	79.7	56.3	52 000
13.0	78.6	56.1	46 100
14.0	77.6	55.9	41 000
15.0	76.5	55.7	36 500
16.0	75.4	55.4	32 500
18.0	73.2	54.8	25 800
20.0	71.0	54.1	20 400
22.0	68.8	53.4	15 900
24.0	66.5	52.5	12 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 500 *
12.0	80.3	59.4	51 100
13.0	79.2	59.3	45 400
14.0	78.2	59.0	40 300
15.0	77.2	58.8	35 900
16.0	76.2	58.6	32 000
18.0	74.2	58.0	25 500
20.0	72.1	57.4	20 200
22.0	70.0	56.7	15 800
24.0	67.8	55.9	12 200

REFERENCE



999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

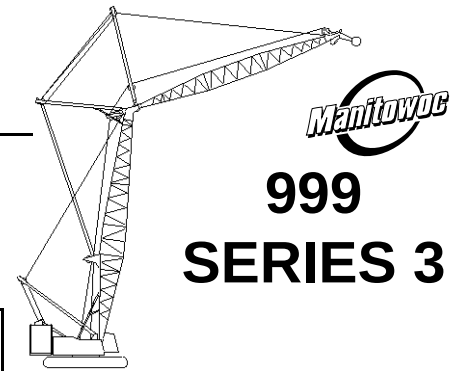
Maximum Operating Wind Speeds
(all boom lengths)
10 m/s 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

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	173 800 *
6.0	81.0	26.5	158 900 *
6.5	79.8	26.4	145 700 *
7.0	78.6	26.3	134 400 *
7.5	77.4	26.1	124 500 *
8.0	76.2	26.0	115 700 *
8.5	75.0	25.9	107 900 *
9.0	73.8	25.7	99 400
10.0	71.3	25.4	84 200
11.0	68.8	25.0	72 200
12.0	66.2	24.5	62 500
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	165 100 *
6.0	82.0	29.6	159 100 *
6.5	81.0	29.5	145 900 *
7.0	79.9	29.4	134 600 *
7.5	78.9	29.3	124 600
8.0	77.8	29.2	115 200
8.5	76.7	29.0	105 300
9.0	75.6	28.9	96 600
10.0	73.4	28.6	82 300
11.0	71.2	28.2	70 800
12.0	69.0	27.8	61 400
13.0	66.7	27.4	53 600
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	142 900 *
6.5	81.9	32.6	140 500 *
7.0	80.9	32.5	134 300
7.5	80.0	32.4	122 700
8.0	79.0	32.3	111 700
8.5	78.1	32.2	102 400
9.0	77.1	32.0	94 200
10.0	75.1	31.8	80 500
11.0	73.2	31.5	69 400
12.0	71.2	31.1	60 400
13.0	69.2	30.7	52 800
14.0	67.1	30.3	46 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	129 400 *
7.0	81.8	35.6	126 000
7.5	80.9	35.5	119 100
8.0	80.0	35.4	108 100
8.5	79.2	35.3	99 300
9.0	78.3	35.2	91 500
10.0	76.5	34.9	78 400
11.0	74.8	34.7	67 800
12.0	73.0	34.3	59 100
13.0	71.2	34.0	51 800
14.0	69.3	33.6	45 500
15.0	67.5	33.2	40 100
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	125 700 *
7.0	82.5	38.7	122 100
7.5	81.7	38.6	115 100
8.0	80.9	38.5	104 800
8.5	80.1	38.4	96 500
9.0	79.3	38.3	89 000
10.0	77.7	38.1	76 500
11.0	76.1	37.8	66 300
12.0	74.4	37.5	57 900
13.0	72.8	37.2	50 800
14.0	71.1	36.9	44 700
15.0	69.5	36.5	39 500
16.0	67.8	36.1	35 000
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	114 300
7.5	82.3	41.7	110 800
8.0	81.6	41.6	101 600
8.5	80.9	41.5	93 700
9.0	80.1	41.4	86 600
10.0	78.6	41.2	74 600
11.0	77.2	41.0	64 800
12.0	75.7	40.7	56 700
13.0	74.2	40.4	49 800
14.0	72.6	40.1	43 900
15.0	71.1	39.8	38 800
16.0	69.6	39.4	34 400
18.0	66.4	38.5	27 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	99 600
8.0	82.2	44.7	98 500
8.5	81.5	44.6	90 900
9.0	80.8	44.5	84 100
10.0	79.5	44.3	72 600
11.0	78.1	44.1	63 200
12.0	76.7	43.9	55 400
13.0	75.3	43.6	48 700
14.0	73.9	43.3	43 000
15.0	72.5	43.0	38 100
16.0	71.1	42.6	33 700
18.0	68.2	41.9	26 500
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	96 500
8.0	82.7	47.7	95 400
8.5	82.1	47.7	88 200
9.0	81.4	47.6	81 700
10.0	80.2	47.4	70 600
11.0	78.9	47.2	61 600
12.0	77.6	47.0	54 000
13.0	76.3	46.7	47 600
14.0	75.0	46.5	42 000
15.0	73.7	46.2	37 200
16.0	72.4	45.9	32 900
18.0	69.7	45.1	25 900
20.0	67.0	44.3	20 200
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	85 000
9.0	82.0	50.7	79 400
10.0	80.8	50.5	68 700
11.0	79.6	50.3	60 000
12.0	78.4	50.1	52 600
13.0	77.2	49.9	46 400
14.0	76.0	49.6	41 000
15.0	74.8	49.4	36 300
16.0	73.5	49.1	32 100
18.0	71.1	48.4	25 300
20.0	68.5	47.6	19 700



999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(all boom lengths)
10 m/s 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

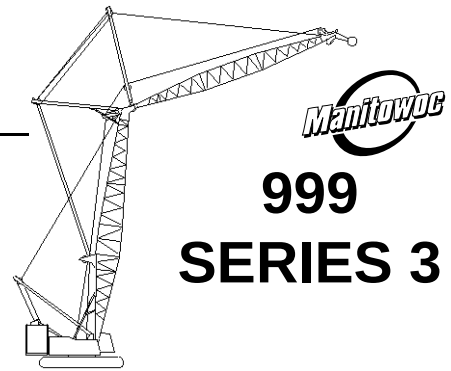
36.6m (120 Ft.) Luffing Jib, Attached at 160 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	82 500
9.0	82.5	53.8	77 200
10.0	81.3	53.6	66 900
11.0	80.2	53.4	58 500
12.0	79.1	53.2	51 400
13.0	78.0	53.0	45 400
14.0	76.8	52.8	40 100
15.0	75.7	52.5	35 500
16.0	74.5	52.2	31 500
18.0	72.2	51.6	24 700
20.0	69.9	50.9	19 300
22.0	67.5	50.1	14 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	73 300
10.0	81.8	56.7	65 100
11.0	80.8	56.5	56 900
12.0	79.7	56.3	50 000
13.0	78.6	56.1	44 200
14.0	77.6	55.9	39 100
15.0	76.5	55.7	34 600
16.0	75.4	55.4	30 700
18.0	73.2	54.8	24 100
20.0	71.0	54.1	18 700
22.0	68.8	53.4	14 300
24.0	66.5	52.5	10 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 400
12.0	80.3	59.4	49 400
13.0	79.2	59.3	43 500
14.0	78.2	59.0	38 500
15.0	77.2	58.8	34 200
16.0	76.2	58.6	30 300
18.0	74.2	58.0	23 800
20.0	72.1	57.4	18 600
22.0	70.0	56.7	14 200
24.0	67.8	55.9	10 600

REFERENCE ONLY



999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

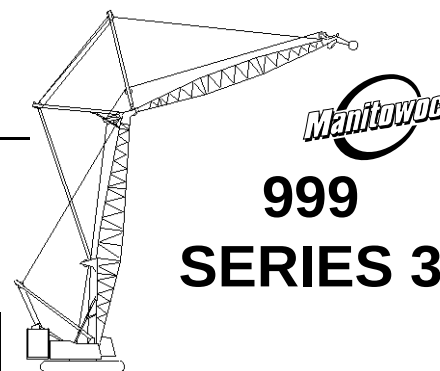
Maximum Operating Wind Speeds
(all boom lengths)
10 m/s 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

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	172 300 *
6.0	81.0	26.5	161 700 *
6.5	79.8	26.4	147 800 *
7.0	78.6	26.3	136 200 *
7.5	77.4	26.1	126 100 *
8.0	76.2	26.0	117 100 *
8.5	75.0	25.9	109 100 *
9.0	73.8	25.7	100 800
10.0	71.3	25.4	85 200
11.0	68.8	25.0	72 900
12.0	66.2	24.5	62 900
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	167 600 *
6.0	82.0	29.6	161 500 *
6.5	81.0	29.5	148 100 *
7.0	79.9	29.4	136 500 *
7.5	78.9	29.3	126 400 *
8.0	77.8	29.2	117 300
8.5	76.7	29.0	107 200
9.0	75.6	28.9	98 300
10.0	73.4	28.6	83 500
11.0	71.2	28.2	71 600
12.0	69.0	27.8	62 000
13.0	66.7	27.4	53 900
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	141 700 *
6.5	81.9	32.6	139 200 *
7.0	80.9	32.5	134 400
7.5	80.0	32.4	125 700
8.0	79.0	32.3	113 900
8.5	78.1	32.2	104 300
9.0	77.1	32.0	95 900
10.0	75.1	31.8	81 800
11.0	73.2	31.5	70 400
12.0	71.2	31.1	61 100
13.0	69.2	30.7	53 300
14.0	67.1	30.3	46 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	128 200 *
7.0	81.8	35.6	126 600
7.5	80.9	35.5	122 000
8.0	80.0	35.4	110 300
8.5	79.2	35.3	101 300
9.0	78.3	35.2	93 200
10.0	76.5	34.9	79 800
11.0	74.8	34.7	68 900
12.0	73.0	34.3	59 900
13.0	71.2	34.0	52 300
14.0	69.3	33.6	45 900
15.0	67.5	33.2	40 400
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	124 700 *
7.0	82.5	38.7	122 900
7.5	81.7	38.6	118 000
8.0	80.9	38.5	107 000
8.5	80.1	38.4	98 400
9.0	79.3	38.3	90 800
10.0	77.7	38.1	77 900
11.0	76.1	37.8	67 500
12.0	74.4	37.5	58 800
13.0	72.8	37.2	51 500
14.0	71.1	36.9	45 300
15.0	69.5	36.5	39 900
16.0	67.8	36.1	35 200
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	114 700 *
7.5	82.3	41.7	111 800
8.0	81.6	41.6	104 000
8.5	80.9	41.5	95 700
9.0	80.1	41.4	88 400
10.0	78.6	41.2	76 100
11.0	77.2	41.0	66 000
12.0	75.7	40.7	57 600
13.0	74.2	40.4	50 600
14.0	72.6	40.1	44 600
15.0	71.1	39.8	39 300
16.0	69.6	39.4	34 700
18.0	66.4	38.5	27 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	101 900
8.0	82.2	44.7	100 700
8.5	81.5	44.6	92 900
9.0	80.8	44.5	85 900
10.0	79.5	44.3	74 100
11.0	78.1	44.1	64 400
12.0	76.7	43.9	56 400
13.0	75.3	43.6	49 500
14.0	73.9	43.3	43 700
15.0	72.5	43.0	38 600
16.0	71.1	42.6	34 100
18.0	68.2	41.9	26 700
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	96 800 *
8.0	82.7	47.7	96 000
8.5	82.1	47.7	90 100
9.0	81.4	47.6	83 700
10.0	80.2	47.4	72 200
11.0	78.9	47.2	62 900
12.0	77.6	47.0	55 000
13.0	76.3	46.7	48 400
14.0	75.0	46.5	42 700
15.0	73.7	46.2	37 700
16.0	72.4	45.9	33 400
18.0	69.7	45.1	26 100
20.0	67.0	44.3	20 300
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	87 000
9.0	82.0	50.7	81 200
10.0	80.8	50.5	70 200
11.0	79.6	50.3	61 200
12.0	78.4	50.1	53 700
13.0	77.2	49.9	47 300
14.0	76.0	49.6	41 700
15.0	74.8	49.4	36 900
16.0	73.5	49.1	32 600
18.0	71.1	48.4	25 500
20.0	68.5	47.6	19 800



999

SERIES 3

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82

Luffing Jib No. 149

99 610 kg Crane Counterweight

36 290 kg Carbody Counterweight

360 Degree Rating

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

10 m/s 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	83 100 *
9.0	82.5	53.8	78 700
10.0	81.3	53.6	68 400
11.0	80.2	53.4	59 800
12.0	79.1	53.2	52 500
13.0	78.0	53.0	46 300
14.0	76.8	52.8	40 900
15.0	75.7	52.5	36 200
16.0	74.5	52.2	32 100
18.0	72.2	51.6	25 100
20.0	69.9	50.9	19 500
22.0	67.5	50.1	14 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	75 100
10.0	81.8	56.7	66 600
11.0	80.8	56.5	58 200
12.0	79.7	56.3	51 200
13.0	78.6	56.1	45 100
14.0	77.6	55.9	39 900
15.0	76.5	55.7	35 300
16.0	75.4	55.4	31 300
18.0	73.2	54.8	24 400
20.0	71.0	54.1	18 900
22.0	68.8	53.4	14 400
24.0	66.5	52.5	10 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 500
12.0	80.3	59.4	50 700
13.0	79.2	59.3	44 400
14.0	78.2	59.0	39 300
15.0	77.2	58.8	34 800
16.0	76.2	58.6	30 900
18.0	74.2	58.0	24 200
20.0	72.1	57.4	18 900
22.0	70.0	56.7	14 400
24.0	67.8	55.9	10 600

REFERENCE ONLY



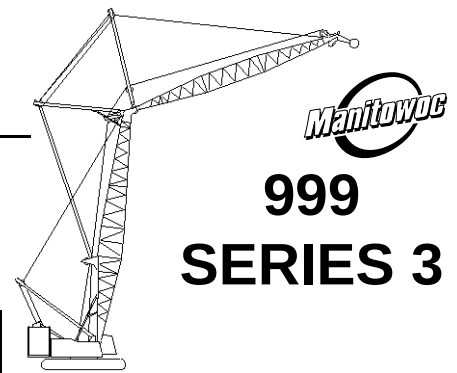
999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating
**Maximum Operating Wind Speeds
(all boom lengths)**
10 m/s 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	169 800 *
6.0	81.0	26.5	159 900 *
6.5	79.8	26.4	146 000 *
7.0	78.6	26.3	134 400 *
7.5	77.4	26.1	124 300 *
8.0	76.2	26.0	115 300
8.5	75.0	25.9	106 900
9.0	73.8	25.7	98 000
10.0	71.3	25.4	82 300
11.0	68.8	25.0	70 100
12.0	66.2	24.5	60 200
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	165 800 *
6.0	82.0	29.6	159 700 *
6.5	81.0	29.5	146 300 *
7.0	79.9	29.4	134 800 *
7.5	78.9	29.3	124 500
8.0	77.8	29.2	114 400
8.5	76.7	29.0	104 300
9.0	75.6	28.9	95 400
10.0	73.4	28.6	80 800
11.0	71.2	28.2	69 100
12.0	69.0	27.8	59 400
13.0	66.7	27.4	51 400
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	139 600 *
6.5	81.9	32.6	137 000 *
7.0	80.9	32.5	131 900
7.5	80.0	32.4	122 700
8.0	79.0	32.3	111 100
8.5	78.1	32.2	101 600
9.0	77.1	32.0	93 200
10.0	75.1	31.8	79 200
11.0	73.2	31.5	68 000
12.0	71.2	31.1	58 700
13.0	69.2	30.7	51 000
14.0	67.1	30.3	44 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	126 300 *
7.0	81.8	35.6	124 300
7.5	80.9	35.5	119 200
8.0	80.0	35.4	107 700
8.5	79.2	35.3	98 700
9.0	78.3	35.2	90 700
10.0	76.5	34.9	77 400
11.0	74.8	34.7	66 500
12.0	73.0	34.3	57 600
13.0	71.2	34.0	50 100
14.0	69.3	33.6	43 800
15.0	67.5	33.2	38 300
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	122 900 *
7.0	82.5	38.7	120 700
7.5	81.7	38.6	115 300
8.0	80.9	38.5	104 500
8.5	80.1	38.4	96 000
9.0	79.3	38.3	88 400
10.0	77.7	38.1	75 600
11.0	76.1	37.8	65 200
12.0	74.4	37.5	56 600
13.0	72.8	37.2	49 400
14.0	71.1	36.9	43 200
15.0	69.5	36.5	37 800
16.0	67.8	36.1	33 200
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	113 000 *
7.5	82.3	41.7	109 900
8.0	81.6	41.6	101 500
8.5	80.9	41.5	93 400
9.0	80.1	41.4	86 100
10.0	78.6	41.2	73 900
11.0	77.2	41.0	63 900
12.0	75.7	40.7	55 600
13.0	74.2	40.4	48 500
14.0	72.6	40.1	42 500
15.0	71.1	39.8	37 300
16.0	69.6	39.4	32 800
18.0	66.4	38.5	25 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	99 600
8.0	82.2	44.7	98 400
8.5	81.5	44.6	90 600
9.0	80.8	44.5	83 700
10.0	79.5	44.3	72 000
11.0	78.1	44.1	62 400
12.0	76.7	43.9	54 400
13.0	75.3	43.6	47 500
14.0	73.9	43.3	41 700
15.0	72.5	43.0	36 700
16.0	71.1	42.6	32 200
18.0	68.2	41.9	24 900
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	95 700 *
8.0	82.7	47.7	94 600
8.5	82.1	47.7	87 900
9.0	81.4	47.6	81 400
10.0	80.2	47.4	70 100
11.0	78.9	47.2	60 900
12.0	77.6	47.0	53 100
13.0	76.3	46.7	46 500
14.0	75.0	46.5	40 800
15.0	73.7	46.2	35 900
16.0	72.4	45.9	31 600
18.0	69.7	45.1	24 300
20.0	67.0	44.3	18 600
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	84 900
9.0	82.0	50.7	79 100
10.0	80.8	50.5	68 200
11.0	79.6	50.3	59 300
12.0	78.4	50.1	51 800
13.0	77.2	49.9	45 400
14.0	76.0	49.6	39 900
15.0	74.8	49.4	35 100
16.0	73.5	49.1	30 900
18.0	71.1	48.4	23 800
20.0	68.5	47.6	18 200



999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(all boom lengths)
10 m/s 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

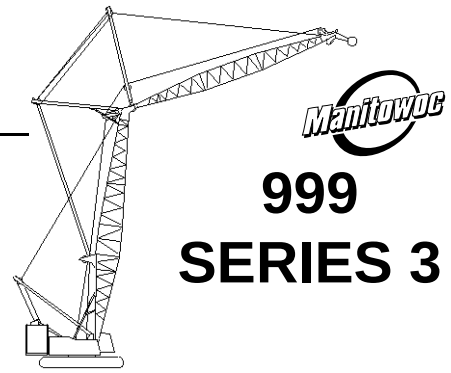
42.7m (140 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	82 000 *
9.0	82.5	53.8	76 800
10.0	81.3	53.6	66 500
11.0	80.2	53.4	57 900
12.0	79.1	53.2	50 600
13.0	78.0	53.0	44 500
14.0	76.8	52.8	39 100
15.0	75.7	52.5	34 400
16.0	74.5	52.2	30 300
18.0	72.2	51.6	23 400
20.0	69.9	50.9	17 800
22.0	67.5	50.1	13 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	73 100
10.0	81.8	56.7	64 700
11.0	80.8	56.5	56 400
12.0	79.7	56.3	49 300
13.0	78.6	56.1	43 300
14.0	77.6	55.9	38 200
15.0	76.5	55.7	33 600
16.0	75.4	55.4	29 500
18.0	73.2	54.8	22 800
20.0	71.0	54.1	17 400
22.0	68.8	53.4	12 900
24.0	66.5	52.5	9 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 400
12.0	80.3	59.4	48 800
13.0	79.2	59.3	42 700
14.0	78.2	59.0	37 600
15.0	77.2	58.8	33 200
16.0	76.2	58.6	29 300
18.0	74.2	58.0	22 600
20.0	72.1	57.4	17 300
22.0	70.0	56.7	12 900
24.0	67.8	55.9	9 100

REFERENCE ONLY



999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

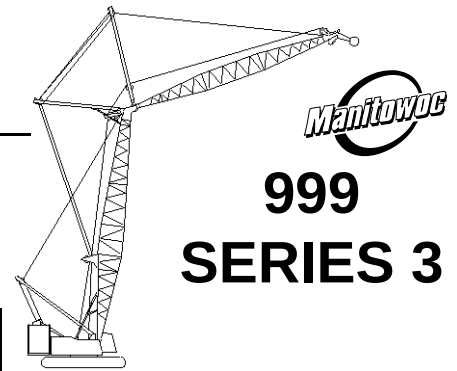
Maximum Operating Wind Speeds
(all boom lengths)
10 m/s 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

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	167 700 *
6.0	81.0	26.5	158 600 *
6.5	79.8	26.4	144 600 *
7.0	78.6	26.3	133 100 *
7.5	77.4	26.1	123 000 *
8.0	76.2	26.0	113 900
8.5	75.0	25.9	104 600
9.0	73.8	25.7	95 500
10.0	71.3	25.4	80 100
11.0	68.8	25.0	68 000
12.0	66.2	24.5	58 100
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	164 100 *
6.0	82.0	29.6	158 300 *
6.5	81.0	29.5	145 100 *
7.0	79.9	29.4	133 500 *
7.5	78.9	29.3	123 000
8.0	77.8	29.2	112 000
8.5	76.7	29.0	102 000
9.0	75.6	28.9	93 300
10.0	73.4	28.6	78 700
11.0	71.2	28.2	67 100
12.0	69.0	27.8	57 600
13.0	66.7	27.4	49 600
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	137 700 *
6.5	81.9	32.6	135 200 *
7.0	80.9	32.5	129 900
7.5	80.0	32.4	120 500
8.0	79.0	32.3	108 900
8.5	78.1	32.2	99 500
9.0	77.1	32.0	91 200
10.0	75.1	31.8	77 300
11.0	73.2	31.5	66 100
12.0	71.2	31.1	57 000
13.0	69.2	30.7	49 300
14.0	67.1	30.3	42 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	124 600 *
7.0	81.8	35.6	122 400
7.5	80.9	35.5	117 100
8.0	80.0	35.4	105 700
8.5	79.2	35.3	96 700
9.0	78.3	35.2	88 800
10.0	76.5	34.9	75 500
11.0	74.8	34.7	64 800
12.0	73.0	34.3	55 900
13.0	71.2	34.0	48 500
14.0	69.3	33.6	42 200
15.0	67.5	33.2	36 700
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	121 300 *
7.0	82.5	38.7	118 900
7.5	81.7	38.6	113 300
8.0	80.9	38.5	102 600
8.5	80.1	38.4	94 100
9.0	79.3	38.3	86 600
10.0	77.7	38.1	73 900
11.0	76.1	37.8	63 600
12.0	74.4	37.5	55 000
13.0	72.8	37.2	47 800
14.0	71.1	36.9	41 700
15.0	69.5	36.5	36 400
16.0	67.8	36.1	31 800
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	111 500 *
7.5	82.3	41.7	108 300
8.0	81.6	41.6	99 700
8.5	80.9	41.5	91 600
9.0	80.1	41.4	84 400
10.0	78.6	41.2	72 200
11.0	77.2	41.0	62 300
12.0	75.7	40.7	54 000
13.0	74.2	40.4	47 100
14.0	72.6	40.1	41 100
15.0	71.1	39.8	36 000
16.0	69.6	39.4	31 500
18.0	66.4	38.5	24 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	97 800
8.0	82.2	44.7	96 700
8.5	81.5	44.6	88 900
9.0	80.8	44.5	82 000
10.0	79.5	44.3	70 400
11.0	78.1	44.1	60 900
12.0	76.7	43.9	52 900
13.0	75.3	43.6	46 100
14.0	73.9	43.3	40 400
15.0	72.5	43.0	35 400
16.0	71.1	42.6	30 900
18.0	68.2	41.9	23 600
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	94 700 *
8.0	82.7	47.7	93 600
8.5	82.1	47.7	86 400
9.0	81.4	47.6	79 800
10.0	80.2	47.4	68 600
11.0	78.9	47.2	59 400
12.0	77.6	47.0	51 700
13.0	76.3	46.7	45 200
14.0	75.0	46.5	39 500
15.0	73.7	46.2	34 600
16.0	72.4	45.9	30 300
18.0	69.7	45.1	23 200
20.0	67.0	44.3	17 400
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	83 300
9.0	82.0	50.7	77 600
10.0	80.8	50.5	66 800
11.0	79.6	50.3	57 900
12.0	78.4	50.1	50 500
13.0	77.2	49.9	44 100
14.0	76.0	49.6	38 700
15.0	74.8	49.4	33 900
16.0	73.5	49.1	29 700
18.0	71.1	48.4	22 700
20.0	68.5	47.6	17 100



999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(all boom lengths)
10 m/s 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

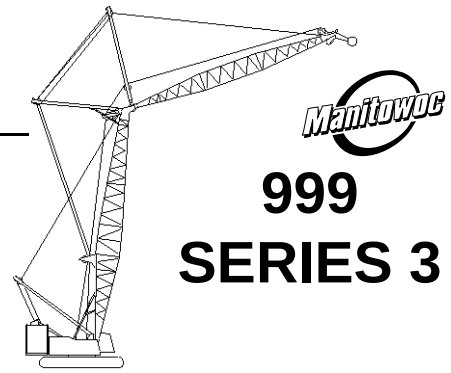
45.7m (150 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	81 000
9.0	82.5	53.8	75 500
10.0	81.3	53.6	65 100
11.0	80.2	53.4	56 600
12.0	79.1	53.2	49 400
13.0	78.0	53.0	43 200
14.0	76.8	52.8	37 900
15.0	75.7	52.5	33 200
16.0	74.5	52.2	29 200
18.0	72.2	51.6	22 300
20.0	69.9	50.9	16 800
22.0	67.5	50.1	12 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	71 700
10.0	81.8	56.7	63 300
11.0	80.8	56.5	55 100
12.0	79.7	56.3	48 100
13.0	78.6	56.1	42 100
14.0	77.6	55.9	37 000
15.0	76.5	55.7	32 400
16.0	75.4	55.4	28 400
18.0	73.2	54.8	21 700
20.0	71.0	54.1	16 300
22.0	68.8	53.4	11 800
24.0	66.5	52.5	8 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	53 300
12.0	80.3	59.4	47 400
13.0	79.2	59.3	41 500
14.0	78.2	59.0	36 500
15.0	77.2	58.8	32 100
16.0	76.2	58.6	28 200
18.0	74.2	58.0	21 600
20.0	72.1	57.4	16 300
22.0	70.0	56.7	11 900
24.0	67.8	55.9	8 200

REFERENCE ONLY



999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

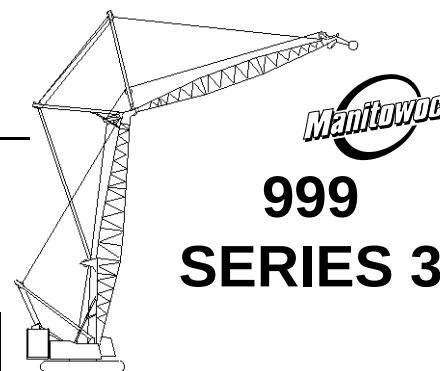
Maximum Operating Wind Speeds
(all boom lengths)
10 m/s 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

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	165 000 *
6.0	81.0	26.5	156 700 *
6.5	79.8	26.4	142 700 *
7.0	78.6	26.3	131 200 *
7.5	77.4	26.1	121 100 *
8.0	76.2	26.0	111 900
8.5	75.0	25.9	101 500
9.0	73.8	25.7	92 200
10.0	71.3	25.4	77 100
11.0	68.8	25.0	65 100
12.0	66.2	24.5	55 200
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	161 700 *
6.0	82.0	29.6	156 300 *
6.5	81.0	29.5	143 500 *
7.0	79.9	29.4	131 600
7.5	78.9	29.3	120 700
8.0	77.8	29.2	108 900
8.5	76.7	29.0	99 000
9.0	75.6	28.9	90 300
10.0	73.4	28.6	75 900
11.0	71.2	28.2	64 300
12.0	69.0	27.8	54 900
13.0	66.7	27.4	47 000
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	135 300 *
6.5	81.9	32.6	132 900 *
7.0	80.9	32.5	127 400
7.5	80.0	32.4	117 400
8.0	79.0	32.3	106 000
8.5	78.1	32.2	96 600
9.0	77.1	32.0	88 400
10.0	75.1	31.8	74 600
11.0	73.2	31.5	63 500
12.0	71.2	31.1	54 400
13.0	69.2	30.7	46 800
14.0	67.1	30.3	40 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	122 400 *
7.0	81.8	35.6	119 900
7.5	80.9	35.5	114 100
8.0	80.0	35.4	102 900
8.5	79.2	35.3	94 000
9.0	78.3	35.2	86 200
10.0	76.5	34.9	73 000
11.0	74.8	34.7	62 300
12.0	73.0	34.3	53 500
13.0	71.2	34.0	46 200
14.0	69.3	33.6	39 900
15.0	67.5	33.2	34 500
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	119 400 *
7.0	82.5	38.7	116 500
7.5	81.7	38.6	110 400
8.0	80.9	38.5	100 000
8.5	80.1	38.4	91 500
9.0	79.3	38.3	84 100
10.0	77.7	38.1	71 500
11.0	76.1	37.8	61 200
12.0	74.4	37.5	52 700
13.0	72.8	37.2	45 600
14.0	71.1	36.9	39 500
15.0	69.5	36.5	34 200
16.0	67.8	36.1	29 700
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	109 800 *
7.5	82.3	41.7	106 300
8.0	81.6	41.6	97 000
8.5	80.9	41.5	89 000
9.0	80.1	41.4	81 900
10.0	78.6	41.2	69 900
11.0	77.2	41.0	60 000
12.0	75.7	40.7	51 800
13.0	74.2	40.4	44 900
14.0	72.6	40.1	39 000
15.0	71.1	39.8	33 900
16.0	69.6	39.4	29 400
18.0	66.4	38.5	22 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	95 300
8.0	82.2	44.7	94 200
8.5	81.5	44.6	86 500
9.0	80.8	44.5	79 700
10.0	79.5	44.3	68 200
11.0	78.1	44.1	58 700
12.0	76.7	43.9	50 800
13.0	75.3	43.6	44 100
14.0	73.9	43.3	38 300
15.0	72.5	43.0	33 300
16.0	71.1	42.6	29 000
18.0	68.2	41.9	21 700
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	92 400
8.0	82.7	47.7	91 300
8.5	82.1	47.7	84 000
9.0	81.4	47.6	77 500
10.0	80.2	47.4	66 400
11.0	78.9	47.2	57 300
12.0	77.6	47.0	49 600
13.0	76.3	46.7	43 200
14.0	75.0	46.5	37 600
15.0	73.7	46.2	32 700
16.0	72.4	45.9	28 500
18.0	69.7	45.1	21 300
20.0	67.0	44.3	15 700
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	81 100
9.0	82.0	50.7	75 400
10.0	80.8	50.5	64 600
11.0	79.6	50.3	55 800
12.0	78.4	50.1	48 400
13.0	77.2	49.9	42 200
14.0	76.0	49.6	36 800
15.0	74.8	49.4	32 000
16.0	73.5	49.1	27 900
18.0	71.1	48.4	20 900
20.0	68.5	47.6	15 300



999

SERIES 3

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82

Luffing Jib No. 149

99 610 kg Crane Counterweight

36 290 kg Carbody Counterweight

360 Degree Rating

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

10 m/s 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

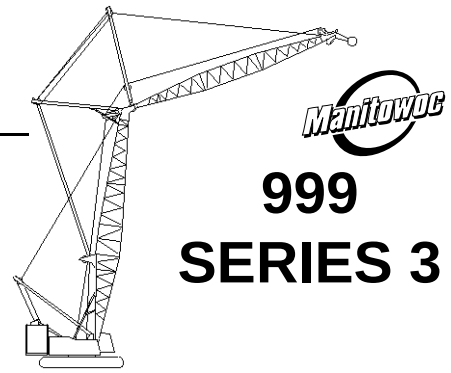
48.8m (160 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	78 800
9.0	82.5	53.8	73 300
10.0	81.3	53.6	63 100
11.0	80.2	53.4	54 600
12.0	79.1	53.2	47 400
13.0	78.0	53.0	41 300
14.0	76.8	52.8	36 000
15.0	75.7	52.5	31 400
16.0	74.5	52.2	27 400
18.0	72.2	51.6	20 600
20.0	69.9	50.9	15 100
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	69 600
10.0	81.8	56.7	61 300
11.0	80.8	56.5	53 100
12.0	79.7	56.3	46 200
13.0	78.6	56.1	40 300
14.0	77.6	55.9	35 200
15.0	76.5	55.7	30 700
16.0	75.4	55.4	26 700
18.0	73.2	54.8	20 100
20.0	71.0	54.1	14 700
22.0	68.8	53.4	10 200
24.0	66.5	52.5	6 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	52 300
12.0	80.3	59.4	45 500
13.0	79.2	59.3	39 700
14.0	78.2	59.0	34 700
15.0	77.2	58.8	30 300
16.0	76.2	58.6	26 500
18.0	74.2	58.0	20 000
20.0	72.1	57.4	14 700
22.0	70.0	56.7	10 300
24.0	67.8	55.9	6 600

REFERENCE ONLY



999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

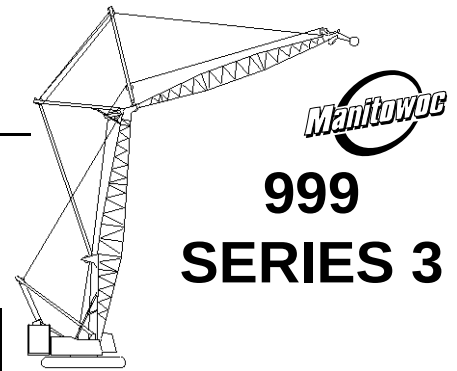
Maximum Operating Wind Speeds
(all boom lengths)
10 m/s 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

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	163 300 *
6.0	81.0	26.5	155 100 *
6.5	79.8	26.4	141 000 *
7.0	78.6	26.3	129 600 *
7.5	77.4	26.1	119 300
8.0	76.2	26.0	109 100
8.5	75.0	25.9	98 600
9.0	73.8	25.7	89 500
10.0	71.3	25.4	74 500
11.0	68.8	25.0	62 600
12.0	66.2	24.5	52 800
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	160 100 *
6.0	82.0	29.6	154 700 *
6.5	81.0	29.5	141 900 *
7.0	79.9	29.4	129 600
7.5	78.9	29.3	117 800
8.0	77.8	29.2	106 200
8.5	76.7	29.0	96 400
9.0	75.6	28.9	87 800
10.0	73.4	28.6	73 400
11.0	71.2	28.2	62 000
12.0	69.0	27.8	52 600
13.0	66.7	27.4	44 800
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	133 900 *
6.5	81.9	32.6	131 300 *
7.0	80.9	32.5	125 400
7.5	80.0	32.4	114 600
8.0	79.0	32.3	103 500
8.5	78.1	32.2	94 200
9.0	77.1	32.0	86 000
10.0	75.1	31.8	72 300
11.0	73.2	31.5	61 300
12.0	71.2	31.1	52 300
13.0	69.2	30.7	44 700
14.0	67.1	30.3	38 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	121 000 *
7.0	81.8	35.6	118 000
7.5	80.9	35.5	111 500
8.0	80.0	35.4	100 500
8.5	79.2	35.3	91 700
9.0	78.3	35.2	83 900
10.0	76.5	34.9	70 800
11.0	74.8	34.7	60 200
12.0	73.0	34.3	51 500
13.0	71.2	34.0	44 200
14.0	69.3	33.6	38 000
15.0	67.5	33.2	32 600
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	118 200 *
7.0	82.5	38.7	114 700
7.5	81.7	38.6	108 000
8.0	80.9	38.5	97 700
8.5	80.1	38.4	89 300
9.0	79.3	38.3	81 900
10.0	77.7	38.1	69 400
11.0	76.1	37.8	59 300
12.0	74.4	37.5	50 800
13.0	72.8	37.2	43 700
14.0	71.1	36.9	37 700
15.0	69.5	36.5	32 500
16.0	67.8	36.1	27 900
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	107 600
7.5	82.3	41.7	104 100
8.0	81.6	41.6	94 900
8.5	80.9	41.5	86 900
9.0	80.1	41.4	79 800
10.0	78.6	41.2	67 900
11.0	77.2	41.0	58 100
12.0	75.7	40.7	50 000
13.0	74.2	40.4	43 100
14.0	72.6	40.1	37 300
15.0	71.1	39.8	32 200
16.0	69.6	39.4	27 700
18.0	66.4	38.5	20 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	93 300
8.0	82.2	44.7	92 100
8.5	81.5	44.6	84 500
9.0	80.8	44.5	77 700
10.0	79.5	44.3	66 300
11.0	78.1	44.1	56 900
12.0	76.7	43.9	49 000
13.0	75.3	43.6	42 300
14.0	73.9	43.3	36 700
15.0	72.5	43.0	31 700
16.0	71.1	42.6	27 400
18.0	68.2	41.9	20 200
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	90 400
8.0	82.7	47.7	89 400
8.5	82.1	47.7	82 100
9.0	81.4	47.6	75 600
10.0	80.2	47.4	64 600
11.0	78.9	47.2	55 500
12.0	77.6	47.0	47 900
13.0	76.3	46.7	41 500
14.0	75.0	46.5	35 900
15.0	73.7	46.2	31 100
16.0	72.4	45.9	26 900
18.0	69.7	45.1	19 800
20.0	67.0	44.3	14 200
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	79 200
9.0	82.0	50.7	73 500
10.0	80.8	50.5	62 900
11.0	79.6	50.3	54 200
12.0	78.4	50.1	46 800
13.0	77.2	49.9	40 600
14.0	76.0	49.6	35 200
15.0	74.8	49.4	30 500
16.0	73.5	49.1	26 300
18.0	71.1	48.4	19 500
20.0	68.5	47.6	13 900



999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(all boom lengths)
10 m/s 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

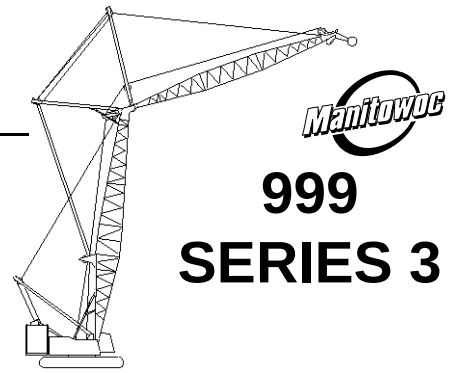
51.8m (170 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	77 000
9.0	82.5	53.8	71 600
10.0	81.3	53.6	61 300
11.0	80.2	53.4	52 900
12.0	79.1	53.2	45 800
13.0	78.0	53.0	39 800
14.0	76.8	52.8	34 500
15.0	75.7	52.5	29 900
16.0	74.5	52.2	25 900
18.0	72.2	51.6	19 200
20.0	69.9	50.9	13 700
22.0	67.5	50.1	9 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	67 900
10.0	81.8	56.7	59 700
11.0	80.8	56.5	51 500
12.0	79.7	56.3	44 600
13.0	78.6	56.1	38 800
14.0	77.6	55.9	33 700
15.0	76.5	55.7	29 200
16.0	75.4	55.4	25 300
18.0	73.2	54.8	18 700
20.0	71.0	54.1	13 300
22.0	68.8	53.4	8 900
24.0	66.5	52.5	5 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500 *
11.0	81.3	59.6	50 600
12.0	80.3	59.4	44 000
13.0	79.2	59.3	38 200
14.0	78.2	59.0	33 300
15.0	77.2	58.8	28 900
16.0	76.2	58.6	25 100
18.0	74.2	58.0	18 600
20.0	72.1	57.4	13 400

REFERENCE



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 3**

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

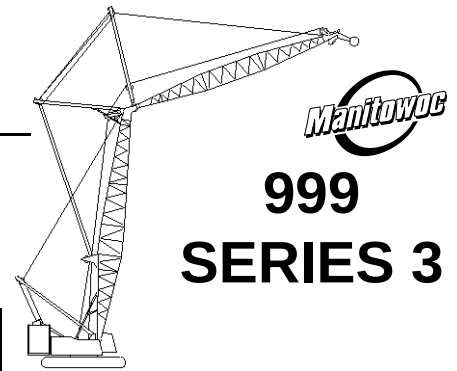
Maximum Operating Wind Speeds
(all boom lengths)
10 m/s 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

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	160 400 *
6.0	81.0	26.5	153 000 *
6.5	79.8	26.4	139 000 *
7.0	78.6	26.3	127 500 *
7.5	77.4	26.1	116 900
8.0	76.2	26.0	105 400
8.5	75.0	25.9	95 100
9.0	73.8	25.7	86 100
10.0	71.3	25.4	71 200
11.0	68.8	25.0	59 400
12.0	66.2	24.5	49 800
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	157 500 *
6.0	82.0	29.6	152 500 *
6.5	81.0	29.5	140 100 *
7.0	79.9	29.4	127 100
7.5	78.9	29.3	114 200
8.0	77.8	29.2	102 900
8.5	76.7	29.0	93 100
9.0	75.6	28.9	84 600
10.0	73.4	28.6	70 400
11.0	71.2	28.2	59 000
12.0	69.0	27.8	49 800
13.0	66.7	27.4	42 000
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	131 400 *
6.5	81.9	32.6	128 800 *
7.0	80.9	32.5	122 600
7.5	80.0	32.4	111 300
8.0	79.0	32.3	100 300
8.5	78.1	32.2	91 100
9.0	77.1	32.0	83 000
10.0	75.1	31.8	69 400
11.0	73.2	31.5	58 600
12.0	71.2	31.1	49 600
13.0	69.2	30.7	42 100
14.0	67.1	30.3	35 800

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	118 700 *
7.0	81.8	35.6	115 300
7.5	80.9	35.5	108 300
8.0	80.0	35.4	97 500
8.5	79.2	35.3	88 800
9.0	78.3	35.2	81 100
10.0	76.5	34.9	68 100
11.0	74.8	34.7	57 600
12.0	73.0	34.3	49 000
13.0	71.2	34.0	41 700
14.0	69.3	33.6	35 500
15.0	67.5	33.2	30 200
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	116 100 *
7.0	82.5	38.7	112 200
7.5	81.7	38.6	104 900
8.0	80.9	38.5	94 900
8.5	80.1	38.4	86 500
9.0	79.3	38.3	79 200
10.0	77.7	38.1	66 800
11.0	76.1	37.8	56 700
12.0	74.4	37.5	48 400
13.0	72.8	37.2	41 300
14.0	71.1	36.9	35 400
15.0	69.5	36.5	30 200
16.0	67.8	36.1	25 700
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	104 700
7.5	82.3	41.7	101 300
8.0	81.6	41.6	92 200
8.5	80.9	41.5	84 300
9.0	80.1	41.4	77 300
10.0	78.6	41.2	65 400
11.0	77.2	41.0	55 700
12.0	75.7	40.7	47 700
13.0	74.2	40.4	40 800
14.0	72.6	40.1	35 000
15.0	71.1	39.8	30 000
16.0	69.6	39.4	25 600
18.0	66.4	38.5	18 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	90 600
8.0	82.2	44.7	89 500
8.5	81.5	44.6	81 900
9.0	80.8	44.5	75 200
10.0	79.5	44.3	63 900
11.0	78.1	44.1	54 500
12.0	76.7	43.9	46 800
13.0	75.3	43.6	40 100
14.0	73.9	43.3	34 500
15.0	72.5	43.0	29 600
16.0	71.1	42.6	25 300
18.0	68.2	41.9	18 200
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	87 900
8.0	82.7	47.7	86 800
8.5	82.1	47.7	79 600
9.0	81.4	47.6	73 200
10.0	80.2	47.4	62 300
11.0	78.9	47.2	53 300
12.0	77.6	47.0	45 800
13.0	76.3	46.7	39 400
14.0	75.0	46.5	33 800
15.0	73.7	46.2	29 100
16.0	72.4	45.9	24 900
18.0	69.7	45.1	17 900
20.0	67.0	44.3	12 300
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	76 800
9.0	82.0	50.7	71 200
10.0	80.8	50.5	60 600
11.0	79.6	50.3	52 000
12.0	78.4	50.1	44 700
13.0	77.2	49.9	38 500
14.0	76.0	49.6	33 200
15.0	74.8	49.4	28 500
16.0	73.5	49.1	24 400
18.0	71.1	48.4	17 500
20.0	68.5	47.6	12 000



999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(all boom lengths)
10 m/s 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

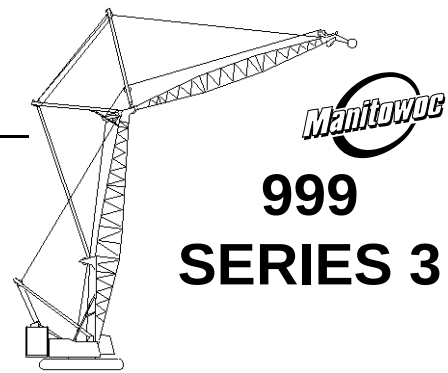
54.9m (180 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	74 700
9.0	82.5	53.8	69 300
10.0	81.3	53.6	59 200
11.0	80.2	53.4	50 800
12.0	79.1	53.2	43 800
13.0	78.0	53.0	37 700
14.0	76.8	52.8	32 500
15.0	75.7	52.5	28 000
16.0	74.5	52.2	24 000
18.0	72.2	51.6	17 300
20.0	69.9	50.9	11 900
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	65 700
10.0	81.8	56.7	57 500
11.0	80.8	56.5	49 500
12.0	79.7	56.3	42 600
13.0	78.6	56.1	36 800
14.0	77.6	55.9	31 800
15.0	76.5	55.7	27 400
16.0	75.4	55.4	23 400
18.0	73.2	54.8	16 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 500
11.0	81.3	59.6	48 600
12.0	80.3	59.4	42 000
13.0	79.2	59.3	36 400
14.0	78.2	59.0	31 400
15.0	77.2	58.8	27 100
16.0	76.2	58.6	23 300
18.0	74.2	58.0	16 900
20.0	72.1	57.4	11 700

REFERENCE



999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

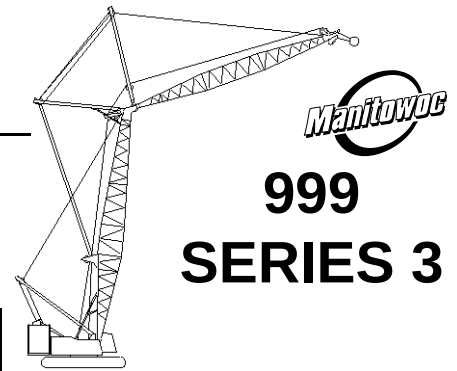
Maximum Operating Wind Speeds
(all boom lengths)
10 m/s 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

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	158 100 *
6.0	81.0	26.5	151 200 *
6.5	79.8	26.4	138 100 *
7.0	78.6	26.3	126 200
7.5	77.4	26.1	115 400
8.0	76.2	26.0	103 000
8.5	75.0	25.9	92 800
9.0	73.8	25.7	83 900
10.0	71.3	25.4	69 100
11.0	68.8	25.0	57 400
12.0	66.2	24.5	47 800
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	155 500 *
6.0	82.0	29.6	151 000 *
6.5	81.0	29.5	139 100 *
7.0	79.9	29.4	125 500
7.5	78.9	29.3	111 800
8.0	77.8	29.2	100 700
8.5	76.7	29.0	91 000
9.0	75.6	28.9	82 600
10.0	73.4	28.6	68 500
11.0	71.2	28.2	57 200
12.0	69.0	27.8	47 900
13.0	66.7	27.4	40 300
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	129 500 *
6.5	81.9	32.6	126 800 *
7.0	80.9	32.5	120 500
7.5	80.0	32.4	109 200
8.0	79.0	32.3	98 300
8.5	78.1	32.2	89 200
9.0	77.1	32.0	81 100
10.0	75.1	31.8	67 700
11.0	73.2	31.5	56 800
12.0	71.2	31.1	47 900
13.0	69.2	30.7	40 500
14.0	67.1	30.3	34 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	116 900 *
7.0	81.8	35.6	113 400
7.5	80.9	35.5	106 400
8.0	80.0	35.4	95 600
8.5	79.2	35.3	87 000
9.0	78.3	35.2	79 300
10.0	76.5	34.9	66 400
11.0	74.8	34.7	56 000
12.0	73.0	34.3	47 400
13.0	71.2	34.0	40 200
14.0	69.3	33.6	34 000
15.0	67.5	33.2	28 800
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	114 400 *
7.0	82.5	38.7	110 500
7.5	81.7	38.6	103 100
8.0	80.9	38.5	93 000
8.5	80.1	38.4	84 800
9.0	79.3	38.3	77 500
10.0	77.7	38.1	65 200
11.0	76.1	37.8	55 200
12.0	74.4	37.5	46 900
13.0	72.8	37.2	39 900
14.0	71.1	36.9	33 900
15.0	69.5	36.5	28 800
16.0	67.8	36.1	24 300
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	103 000
7.5	82.3	41.7	99 600
8.0	81.6	41.6	90 400
8.5	80.9	41.5	82 600
9.0	80.1	41.4	75 600
10.0	78.6	41.2	63 800
11.0	77.2	41.0	54 200
12.0	75.7	40.7	46 200
13.0	74.2	40.4	39 500
14.0	72.6	40.1	33 700
15.0	71.1	39.8	28 700
16.0	69.6	39.4	24 300
18.0	66.4	38.5	17 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	89 000
8.0	82.2	44.7	87 900
8.5	81.5	44.6	80 400
9.0	80.8	44.5	73 700
10.0	79.5	44.3	62 400
11.0	78.1	44.1	53 100
12.0	76.7	43.9	45 400
13.0	75.3	43.6	38 800
14.0	73.9	43.3	33 200
15.0	72.5	43.0	28 300
16.0	71.1	42.6	24 100
18.0	68.2	41.9	17 000
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	86 300
8.0	82.7	47.7	85 200
8.5	82.1	47.7	78 100
9.0	81.4	47.6	71 700
10.0	80.2	47.4	60 800
11.0	78.9	47.2	51 900
12.0	77.6	47.0	44 400
13.0	76.3	46.7	38 100
14.0	75.0	46.5	32 600
15.0	73.7	46.2	27 900
16.0	72.4	45.9	23 700
18.0	69.7	45.1	16 700
20.0	67.0	44.3	11 200
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	75 300
9.0	82.0	50.7	69 800
10.0	80.8	50.5	59 300
11.0	79.6	50.3	50 700
12.0	78.4	50.1	43 400
13.0	77.2	49.9	37 300
14.0	76.0	49.6	32 000
15.0	74.8	49.4	27 300
16.0	73.5	49.1	23 300
18.0	71.1	48.4	16 500
20.0	68.5	47.6	11 000



999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(all boom lengths)
10 m/s 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

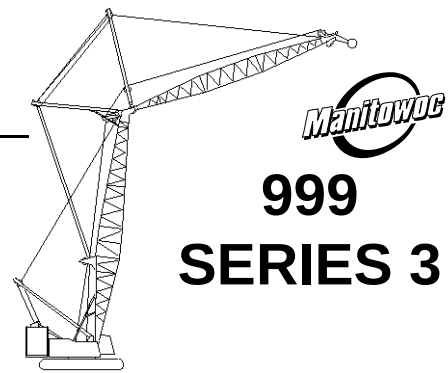
57.9m (190 Ft.) Luffing Jib, Attached at 168 Degree Boom to Luffing Jib Angle

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	73 300
9.0	82.5	53.8	67 900
10.0	81.3	53.6	57 800
11.0	80.2	53.4	49 500
12.0	79.1	53.2	42 500
13.0	78.0	53.0	36 600
14.0	76.8	52.8	31 400
15.0	75.7	52.5	26 900
16.0	74.5	52.2	22 900
18.0	72.2	51.6	16 300
20.0	69.9	50.9	10 900
22.0	67.5	50.1	6 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	64 400
10.0	81.8	56.7	56 300
11.0	80.8	56.5	48 200
12.0	79.7	56.3	41 500
13.0	78.6	56.1	35 700
14.0	77.6	55.9	30 700
15.0	76.5	55.7	26 300
16.0	75.4	55.4	22 400
18.0	73.2	54.8	15 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
57.9m (190 Ft.) BOOM			
9.8	82.5	59.8	53 500 *
10.0	82.3	59.8	53 000
11.0	81.3	59.6	47 400
12.0	80.3	59.4	40 900
13.0	79.2	59.3	35 200
14.0	78.2	59.0	30 300
15.0	77.2	58.8	26 100
16.0	76.2	58.6	22 300

REFERENCE



999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

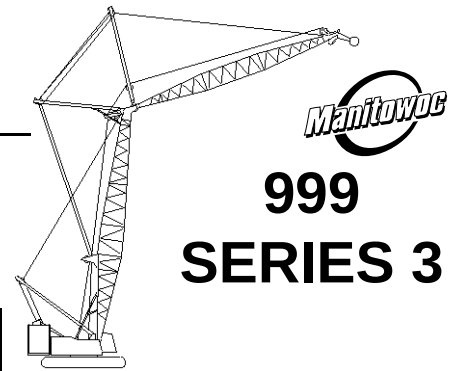
Maximum Operating Wind Speeds
(all boom lengths)
10 m/s 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

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	155 100 *
6.0	81.0	26.5	148 600 *
6.5	79.8	26.4	136 200 *
7.0	78.6	26.3	123 500
7.5	77.4	26.1	111 300
8.0	76.2	26.0	99 300
8.5	75.0	25.9	89 200
9.0	73.8	25.7	80 300
10.0	71.3	25.4	65 700
11.0	68.8	25.0	54 100
12.0	66.2	24.5	44 600
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	152 700 *
6.0	82.0	29.6	148 700 *
6.5	81.0	29.5	136 300
7.0	79.9	29.4	121 500
7.5	78.9	29.3	108 200
8.0	77.8	29.2	97 200
8.5	76.7	29.0	87 600
9.0	75.6	28.9	79 200
10.0	73.4	28.6	65 300
11.0	71.2	28.2	54 100
12.0	69.0	27.8	45 000
13.0	66.7	27.4	37 400
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	126 800 *
6.5	81.9	32.6	124 100 *
7.0	80.9	32.5	117 600
7.5	80.0	32.4	105 700
8.0	79.0	32.3	95 000
8.5	78.1	32.2	85 900
9.0	77.1	32.0	78 000
10.0	75.1	31.8	64 600
11.0	73.2	31.5	53 900
12.0	71.2	31.1	45 100
13.0	69.2	30.7	37 700
14.0	67.1	30.3	31 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	114 500 *
7.0	81.8	35.6	110 600
7.5	80.9	35.5	103 000
8.0	80.0	35.4	92 500
8.5	79.2	35.3	83 900
9.0	78.3	35.2	76 300
10.0	76.5	34.9	63 500
11.0	74.8	34.7	53 200
12.0	73.0	34.3	44 700
13.0	71.2	34.0	37 600
14.0	69.3	33.6	31 500
15.0	67.5	33.2	26 300
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	112 200 *
7.0	82.5	38.7	107 800
7.5	81.7	38.6	99 900
8.0	80.9	38.5	90 100
8.5	80.1	38.4	81 900
9.0	79.3	38.3	74 700
10.0	77.7	38.1	62 400
11.0	76.1	37.8	52 500
12.0	74.4	37.5	44 300
13.0	72.8	37.2	37 400
14.0	71.1	36.9	31 500
15.0	69.5	36.5	26 400
16.0	67.8	36.1	22 000
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	100 000
7.5	82.3	41.7	96 600
8.0	81.6	41.6	87 600
8.5	80.9	41.5	79 800
9.0	80.1	41.4	72 900
10.0	78.6	41.2	61 200
11.0	77.2	41.0	51 700
12.0	75.7	40.7	43 800
13.0	74.2	40.4	37 100
14.0	72.6	40.1	31 400
15.0	71.1	39.8	26 400
16.0	69.6	39.4	22 000
18.0	66.4	38.5	14 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	86 200
8.0	82.2	44.7	85 100
8.5	81.5	44.6	77 700
9.0	80.8	44.5	71 100
10.0	79.5	44.3	59 900
11.0	78.1	44.1	50 700
12.0	76.7	43.9	43 000
13.0	75.3	43.6	36 500
14.0	73.9	43.3	30 900
15.0	72.5	43.0	26 100
16.0	71.1	42.6	21 900
18.0	68.2	41.9	14 900
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	83 700
8.0	82.7	47.7	82 600
8.5	82.1	47.7	75 500
9.0	81.4	47.6	69 200
10.0	80.2	47.4	58 400
11.0	78.9	47.2	49 600
12.0	77.6	47.0	42 200
13.0	76.3	46.7	35 900
14.0	75.0	46.5	30 400
15.0	73.7	46.2	25 700
16.0	72.4	45.9	21 600
18.0	69.7	45.1	14 700
20.0	67.0	44.3	9 200
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	72 800
9.0	82.0	50.7	67 300
10.0	80.8	50.5	56 900
11.0	79.6	50.3	48 400
12.0	78.4	50.1	41 200
13.0	77.2	49.9	35 100
14.0	76.0	49.6	29 900
15.0	74.8	49.4	25 300
16.0	73.5	49.1	21 200
18.0	71.1	48.4	14 500
20.0	68.5	47.6	9 100



999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(all boom lengths)
10 m/s 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

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
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	70 800
9.0	82.5	53.8	65 600
10.0	81.3	53.6	55 500
11.0	80.2	53.4	47 300
12.0	79.1	53.2	40 400
13.0	78.0	53.0	34 500
14.0	76.8	52.8	29 400
15.0	75.7	52.5	24 900
16.0	74.5	52.2	20 900
18.0	72.2	51.6	14 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	62 100
10.0	81.8	56.7	54 100
11.0	80.8	56.5	46 100
12.0	79.7	56.3	39 400
13.0	78.6	56.1	33 700
14.0	77.6	55.9	28 700
15.0	76.5	55.7	24 300
16.0	75.4	55.4	20 500
18.0	73.2	54.8	14 000

REFERENCE ONLY!



999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating
**Maximum Operating Wind Speeds
(all boom lengths)**

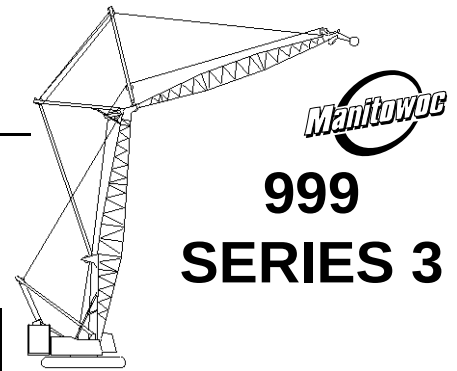
 10 m/s 21.3m thru 33.5m Luffing Jib
 7 m/s with 36.6m thru 61.0m Luffing Jib
 5 m/s with 64.0m thru 73.2m Luffing Jib

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	152 700 *
6.0	81.0	26.5	146 400 *
6.5	79.8	26.4	134 300 *
7.0	78.6	26.3	120 900
7.5	77.4	26.1	107 500
8.0	76.2	26.0	95 700
8.5	75.0	25.9	85 800
9.0	73.8	25.7	77 000
10.0	71.3	25.4	62 500
11.0	68.8	25.0	51 100
12.0	66.2	24.5	41 600
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	150 500 *
6.0	82.0	29.6	146 600 *
6.5	81.0	29.5	133 600
7.0	79.9	29.4	117 800
7.5	78.9	29.3	104 800
8.0	77.8	29.2	93 900
8.5	76.7	29.0	84 500
9.0	75.6	28.9	76 100
10.0	73.4	28.6	62 300
11.0	71.2	28.2	51 300
12.0	69.0	27.8	42 200
13.0	66.7	27.4	34 700
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	124 700 *
6.5	81.9	32.6	122 000 *
7.0	80.9	32.5	115 100
7.5	80.0	32.4	102 400
8.0	79.0	32.3	91 900
8.5	78.1	32.2	83 000
9.0	77.1	32.0	75 100
10.0	75.1	31.8	61 900
11.0	73.2	31.5	51 200
12.0	71.2	31.1	42 500
13.0	69.2	30.7	35 200
14.0	67.1	30.3	29 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	112 600 *
7.0	81.8	35.6	108 100
7.5	80.9	35.5	99 900
8.0	80.0	35.4	89 600
8.5	79.2	35.3	81 000
9.0	78.3	35.2	73 500
10.0	76.5	34.9	60 900
11.0	74.8	34.7	50 700
12.0	73.0	34.3	42 300
13.0	71.2	34.0	35 200
14.0	69.3	33.6	29 200
15.0	67.5	33.2	24 000
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	110 500 *
7.0	82.5	38.7	105 600
7.5	81.7	38.6	96 900
8.0	80.9	38.5	87 300
8.5	80.1	38.4	79 200
9.0	79.3	38.3	72 000
10.0	77.7	38.1	59 900
11.0	76.1	37.8	50 100
12.0	74.4	37.5	42 000
13.0	72.8	37.2	35 100
14.0	71.1	36.9	29 300
15.0	69.5	36.5	24 300
16.0	67.8	36.1	19 900
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	97 200
7.5	82.3	41.7	93 900
8.0	81.6	41.6	85 000
8.5	80.9	41.5	77 300
9.0	80.1	41.4	70 400
10.0	78.6	41.2	58 900
11.0	77.2	41.0	49 400
12.0	75.7	40.7	41 500
13.0	74.2	40.4	34 900
14.0	72.6	40.1	29 200
15.0	71.1	39.8	24 300
16.0	69.6	39.4	20 000
18.0	66.4	38.5	12 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	83 700
8.0	82.2	44.7	82 600
8.5	81.5	44.6	75 300
9.0	80.8	44.5	68 700
10.0	79.5	44.3	57 600
11.0	78.1	44.1	48 500
12.0	76.7	43.9	40 900
13.0	75.3	43.6	34 500
14.0	73.9	43.3	29 000
15.0	72.5	43.0	24 200
16.0	71.1	42.6	20 000
18.0	68.2	41.9	13 000
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	81 200
8.0	82.7	47.7	80 200
8.5	82.1	47.7	73 100
9.0	81.4	47.6	66 900
10.0	80.2	47.4	56 200
11.0	78.9	47.2	47 400
12.0	77.6	47.0	40 100
13.0	76.3	46.7	33 900
14.0	75.0	46.5	28 500
15.0	73.7	46.2	23 800
16.0	72.4	45.9	19 700
18.0	69.7	45.1	12 900
20.0	67.0	44.3	7 500
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	70 600
9.0	82.0	50.7	65 100
10.0	80.8	50.5	54 800
11.0	79.6	50.3	46 400
12.0	78.4	50.1	39 200
13.0	77.2	49.9	33 200
14.0	76.0	49.6	28 000
15.0	74.8	49.4	23 400
16.0	73.5	49.1	19 500
18.0	71.1	48.4	12 800



999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(all boom lengths)

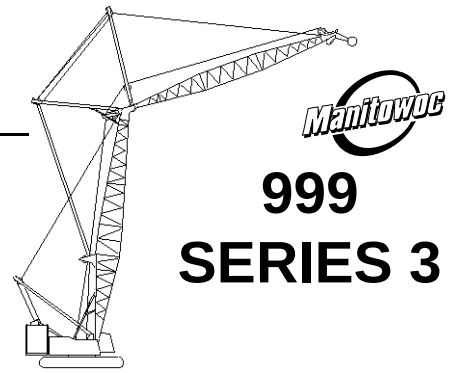
10 m/s 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

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
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	68 600
9.0	82.5	53.8	63 400
10.0	81.3	53.6	53 500
11.0	80.2	53.4	45 300
12.0	79.1	53.2	38 500
13.0	78.0	53.0	32 600
14.0	76.8	52.8	27 500
15.0	75.7	52.5	23 100
16.0	74.5	52.2	19 200
18.0	72.2	51.6	12 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	60 100
10.0	81.8	56.7	52 100
11.0	80.8	56.5	44 200
12.0	79.7	56.3	37 500
13.0	78.6	56.1	31 800
14.0	77.6	55.9	26 900
15.0	76.5	55.7	22 600

REFERENCE ONLY!



Liftcrane Boom Capacities With Luffing Jib Attached

**999
SERIES 3**

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

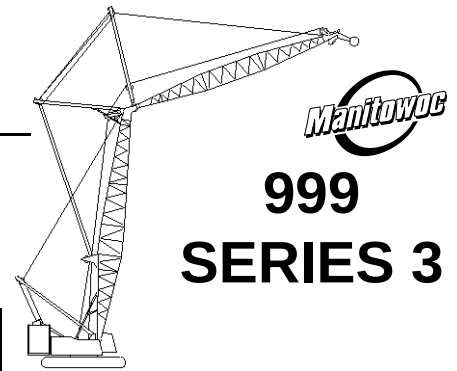
Maximum Operating Wind Speeds (all boom lengths)			
10 m/s	21.3m	thru	33.5m Luffing Jib
7 m/s	with 36.6m	thru	61.0m Luffing Jib
5 m/s	with 64.0m	thru	73.2m Luffing Jib

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	149 400 *
6.0	81.0	26.5	143 700 *
6.5	79.8	26.4	132 000
7.0	78.6	26.3	117 400
7.5	77.4	26.1	103 200
8.0	76.2	26.0	91 800
8.5	75.0	25.9	81 900
9.0	73.8	25.7	73 200
10.0	71.3	25.4	58 900
11.0	68.8	25.0	47 600
12.0	66.2	24.5	38 300
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	147 600 *
6.0	82.0	29.6	144 200 *
6.5	81.0	29.5	130 700
7.0	79.9	29.4	113 600
7.5	78.9	29.3	101 000
8.0	77.8	29.2	90 200
8.5	76.7	29.0	80 900
9.0	75.6	28.9	72 600
10.0	73.4	28.6	58 900
11.0	71.2	28.2	48 000
12.0	69.0	27.8	39 000
13.0	66.7	27.4	31 600
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	122 000 *
6.5	81.9	32.6	119 200 *
7.0	80.9	32.5	111 900
7.5	80.0	32.4	98 700
8.0	79.0	32.3	88 500
8.5	78.1	32.2	79 600
9.0	77.1	32.0	71 800
10.0	75.1	31.8	58 700
11.0	73.2	31.5	48 200
12.0	71.2	31.1	39 500
13.0	69.2	30.7	32 300
14.0	67.1	30.3	26 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	110 000 *
7.0	81.8	35.6	105 100
7.5	80.9	35.5	96 400
8.0	80.0	35.4	86 300
8.5	79.2	35.3	77 900
9.0	78.3	35.2	70 400
10.0	76.5	34.9	57 900
11.0	74.8	34.7	47 800
12.0	73.0	34.3	39 500
13.0	71.2	34.0	32 400
14.0	69.3	33.6	26 500
15.0	67.5	33.2	21 400
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	108 100 *
7.0	82.5	38.7	102 800
7.5	81.7	38.6	93 600
8.0	80.9	38.5	84 100
8.5	80.1	38.4	76 200
9.0	79.3	38.3	69 100
10.0	77.7	38.1	57 100
11.0	76.1	37.8	47 400
12.0	74.4	37.5	39 300
13.0	72.8	37.2	32 500
14.0	71.1	36.9	26 800
15.0	69.5	36.5	21 800
16.0	67.8	36.1	17 400
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	94 100
7.5	82.3	41.7	90 800
8.0	81.6	41.6	81 900
8.5	80.9	41.5	74 300
9.0	80.1	41.4	67 600
10.0	78.6	41.2	56 100
11.0	77.2	41.0	46 800
12.0	75.7	40.7	39 000
13.0	74.2	40.4	32 400
14.0	72.6	40.1	26 800
15.0	71.1	39.8	21 900
16.0	69.6	39.4	17 700
18.0	66.4	38.5	10 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	80 800
8.0	82.2	44.7	79 700
8.5	81.5	44.6	72 400
9.0	80.8	44.5	65 900
10.0	79.5	44.3	55 000
11.0	78.1	44.1	45 900
12.0	76.7	43.9	38 400
13.0	75.3	43.6	32 100
14.0	73.9	43.3	26 600
15.0	72.5	43.0	21 900
16.0	71.1	42.6	17 700
18.0	68.2	41.9	10 800
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	78 500
8.0	82.7	47.7	77 400
8.5	82.1	47.7	70 500
9.0	81.4	47.6	64 200
10.0	80.2	47.4	53 700
11.0	78.9	47.2	45 000
12.0	77.6	47.0	37 700
13.0	76.3	46.7	31 500
14.0	75.0	46.5	26 200
15.0	73.7	46.2	21 600
16.0	72.4	45.9	17 500
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	68 000
9.0	82.0	50.7	62 600
10.0	80.8	50.5	52 300
11.0	79.6	50.3	44 000
12.0	78.4	50.1	36 900
13.0	77.2	49.9	31 000
14.0	76.0	49.6	25 800
15.0	74.8	49.4	21 300
16.0	73.5	49.1	17 300
18.0	71.1	48.4	10 700



999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

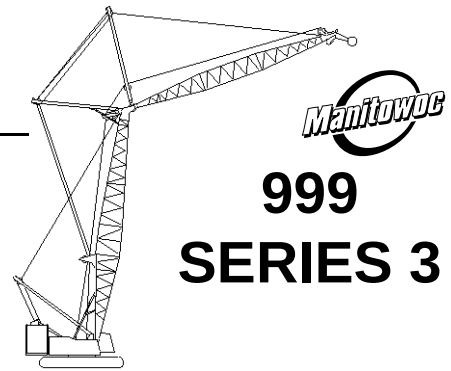
Maximum Operating Wind Speeds
(all boom lengths)
10 m/s 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

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
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	66 100
9.0	82.5	53.8	60 900
10.0	81.3	53.6	51 100
11.0	80.2	53.4	43 100
12.0	79.1	53.2	36 200
13.0	78.0	53.0	30 400
14.0	76.8	52.8	25 400
15.0	75.7	52.5	21 000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	57 600
10.0	81.8	56.7	49 700
11.0	80.8	56.5	41 900
12.0	79.7	56.3	35 300
13.0	78.6	56.1	29 700
14.0	77.6	55.9	24 800
15.0	76.5	55.7	20 600

REFERENCE ONLY!



999 SERIES 3

Liftcrane Boom Capacities With Luffing Jib Attached

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

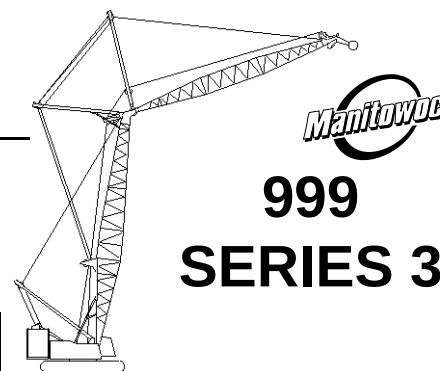
Maximum Operating Wind Speeds
(all boom lengths)
10 m/s 21.3m thru 33.5m Luffing Jib
7 m/s with 36.6m thru 61.0m Luffing Jib
5 m/s with 64.0m thru 73.2m Luffing Jib

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	149 500 *
5.5	82.2	26.6	146 600 *
6.0	81.0	26.5	141 400 *
6.5	79.8	26.4	129 500
7.0	78.6	26.3	113 600
7.5	77.4	26.1	99 800
8.0	76.2	26.0	88 500
8.5	75.0	25.9	78 700
9.0	73.8	25.7	70 100
10.0	71.3	25.4	56 000
11.0	68.8	25.0	44 700
12.0	66.2	24.5	35 500
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	145 000 *
6.0	82.0	29.6	141 000
6.5	81.0	29.5	126 900
7.0	79.9	29.4	110 300
7.5	78.9	29.3	97 900
8.0	77.8	29.2	87 100
8.5	76.7	29.0	77 900
9.0	75.6	28.9	69 700
10.0	73.4	28.6	56 200
11.0	71.2	28.2	45 400
12.0	69.0	27.8	36 500
13.0	66.7	27.4	29 200
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	119 500 *
6.5	81.9	32.6	116 700
7.0	80.9	32.5	109 200
7.5	80.0	32.4	95 700
8.0	79.0	32.3	85 600
8.5	78.1	32.2	76 800
9.0	77.1	32.0	69 100
10.0	75.1	31.8	56 100
11.0	73.2	31.5	45 700
12.0	71.2	31.1	37 200
13.0	69.2	30.7	30 000
14.0	67.1	30.3	24 000
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	107 800 *
7.0	81.8	35.6	102 600
7.5	80.9	35.5	93 500
8.0	80.0	35.4	83 600
8.5	79.2	35.3	75 200
9.0	78.3	35.2	67 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
10.0	76.5	34.9	55 500
11.0	74.8	34.7	45 500
12.0	73.0	34.3	37 200
13.0	71.2	34.0	30 300
14.0	69.3	33.6	24 400
15.0	67.5	33.2	19 300
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	106 100 *
7.0	82.5	38.7	100 400
7.5	81.7	38.6	90 800
8.0	80.9	38.5	81 600
8.5	80.1	38.4	73 700
9.0	79.3	38.3	66 600
10.0	77.7	38.1	54 800
11.0	76.1	37.8	45 200
12.0	74.4	37.5	37 200
13.0	72.8	37.2	30 500
14.0	71.1	36.9	24 800
15.0	69.5	36.5	19 800
16.0	67.8	36.1	15 500
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	91 600
7.5	82.3	41.7	88 300
8.0	81.6	41.6	79 500
8.5	80.9	41.5	72 000
9.0	80.1	41.4	65 300
10.0	78.6	41.2	53 900
11.0	77.2	41.0	44 700
12.0	75.7	40.7	37 000
13.0	74.2	40.4	30 400
14.0	72.6	40.1	24 900
15.0	71.1	39.8	20 100
16.0	69.6	39.4	15 900
18.0	66.4	38.5	8 900
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	78 500
8.0	82.2	44.7	77 400
8.5	81.5	44.6	70 200
9.0	80.8	44.5	63 700
10.0	79.5	44.3	52 900

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
11.0	78.1	44.1	44 000
12.0	76.7	43.9	36 500
13.0	75.3	43.6	30 200
14.0	73.9	43.3	24 800
15.0	72.5	43.0	20 100
16.0	71.1	42.6	16 000
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	76 200
8.0	82.7	47.7	75 200
8.5	82.1	47.7	68 300
9.0	81.4	47.6	62 100
10.0	80.2	47.4	51 700
11.0	78.9	47.2	43 100
12.0	77.6	47.0	35 900
13.0	76.3	46.7	29 800
14.0	75.0	46.5	24 500
15.0	73.7	46.2	19 900
16.0	72.4	45.9	16 000
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	65 900
9.0	82.0	50.7	60 600
10.0	80.8	50.5	50 400
11.0	79.6	50.3	42 200
12.0	78.4	50.1	35 200
13.0	77.2	49.9	29 200
14.0	76.0	49.6	24 100
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	64 100
9.0	82.5	53.8	59 000
10.0	81.3	53.6	49 300
11.0	80.2	53.4	41 300
12.0	79.1	53.2	34 600
13.0	78.0	53.0	28 800
14.0	76.8	52.8	23 800
15.0	75.7	52.5	19 500
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	55 800
10.0	81.8	56.7	47 900
11.0	80.8	56.5	40 200



999 SERIES 3

Boom No. 82
Luffing Jib No. 149
99 610 kg Crane Counterweight
36 290 kg Carbody Counterweight
360 Degree Rating

Maximum Operating Wind Speeds
(all boom lengths)

10 m/s 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	146 100 *
5.5	82.2	26.6	143 300 *
6.0	81.0	26.5	138 600 *
6.5	79.8	26.4	126 300
7.0	78.6	26.3	108 900
7.5	77.4	26.1	95 500
8.0	76.2	26.0	84 400
8.5	75.0	25.9	74 700
9.0	73.8	25.7	66 200
10.0	71.3	25.4	52 200
11.0	68.8	25.0	41 100
12.0	66.2	24.5	32 000
27.4m (90 Ft.) BOOM			
5.8	82.5	29.6	142 000 *
6.0	82.0	29.6	137 000
6.5	81.0	29.5	122 200
7.0	79.9	29.4	106 200
7.5	78.9	29.3	93 900
8.0	77.8	29.2	83 300
8.5	76.7	29.0	74 100
9.0	75.6	28.9	66 100
10.0	73.4	28.6	52 700
11.0	71.2	28.2	42 000
12.0	69.0	27.8	33 200
13.0	66.7	27.4	26 000
30.5m (100 Ft.) BOOM			
6.1	82.7	32.6	116 600 *
6.5	81.9	32.6	113 100
7.0	80.9	32.5	105 200
7.5	80.0	32.4	92 000
8.0	79.0	32.3	82 000
8.5	78.1	32.2	73 300
9.0	77.1	32.0	65 600
10.0	75.1	31.8	52 800
11.0	73.2	31.5	42 500
12.0	71.2	31.1	34 100
13.0	69.2	30.7	27 000
14.0	67.1	30.3	21 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
33.5m (110 Ft.) BOOM			
6.7	82.3	35.6	105 100 *
7.0	81.8	35.6	99 500
7.5	80.9	35.5	89 900
8.0	80.0	35.4	80 200
8.5	79.2	35.3	71 900
9.0	78.3	35.2	64 600
10.0	76.5	34.9	52 400
11.0	74.8	34.7	42 500
12.0	73.0	34.3	34 300
13.0	71.2	34.0	27 400
14.0	69.3	33.6	21 600
15.0	67.5	33.2	16 600
36.6m (120 Ft.) BOOM			
6.7	82.9	38.7	103 600 *
7.0	82.5	38.7	97 500
7.5	81.7	38.6	87 400
8.0	80.9	38.5	78 300
8.5	80.1	38.4	70 500
9.0	79.3	38.3	63 500
10.0	77.7	38.1	51 800
11.0	76.1	37.8	42 300
12.0	74.4	37.5	34 400
13.0	72.8	37.2	27 800
14.0	71.1	36.9	22 100
15.0	69.5	36.5	17 200
16.0	67.8	36.1	13 000
39.6m (130 Ft.) BOOM			
7.3	82.6	41.7	88 300
7.5	82.3	41.7	85 100
8.0	81.6	41.6	76 400
8.5	80.9	41.5	68 900
9.0	80.1	41.4	62 300
10.0	78.6	41.2	51 100
11.0	77.2	41.0	41 900
12.0	75.7	40.7	34 300
13.0	74.2	40.4	27 900
14.0	72.6	40.1	22 400
15.0	71.1	39.8	17 600

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
7.9	82.3	44.7	75 500
8.0	82.2	44.7	74 400
8.5	81.5	44.6	67 300
9.0	80.8	44.5	60 900
10.0	79.5	44.3	50 100
11.0	78.1	44.1	41 300
12.0	76.7	43.9	33 900
13.0	75.3	43.6	27 700
14.0	73.9	43.3	22 300
15.0	72.5	43.0	17 700
16.0	71.1	42.6	13 600
45.7m (150 Ft.) BOOM			
7.9	82.8	47.8	73 300
8.0	82.7	47.7	72 300
8.5	82.1	47.7	65 500
9.0	81.4	47.6	59 400
10.0	80.2	47.4	49 000
11.0	78.9	47.2	40 500
12.0	77.6	47.0	33 400
13.0	76.3	46.7	27 400
14.0	75.0	46.5	22 100
48.8m (160 Ft.) BOOM			
8.5	82.5	50.8	63 200
9.0	82.0	50.7	57 900
10.0	80.8	50.5	47 900
11.0	79.6	50.3	39 700
12.0	78.4	50.1	32 800
13.0	77.2	49.9	26 900
14.0	76.0	49.6	21 800
51.8m (170 Ft.) BOOM			
8.5	83.0	53.8	61 500
9.0	82.5	53.8	56 400
10.0	81.3	53.6	46 800
54.9m (180 Ft.) BOOM			
9.1	82.7	56.8	53 500 *
10.0	81.8	56.7	46 100
11.0	80.8	56.5	38 400