

**Manitowoc Cranes, Inc.**

Manitowoc, Wisconsin 54220 U.S.A.

**Liftcrane Boom Capacities****777 SERIES 2****Boom No. 78****64 410 kg Crane Counterweight****19 960 kg Carbody Counterweight****360 Degree Rating**

European Standards
14 m/s Maximum Wind
Or 10 m/s With Jib

LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and are calculated to comply with DIN 15018, ISO 4305, and NEN 2022 standards and include factors based on 4.5 degree minimum tipping angle. Capacities based on structural competence are denoted by an asterisk (*).

Upper boom point capacity for liftcrane service with single part whip line is 13 380 kg or 26 760 kg with two part whip line. When boom butt mounted auxiliary drum is used, capacity with single part whip line is 9 070 kg or 18 140 kg with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

Weight of jib, all load blocks, hooks, weight ball, slings, etc., beneath boom and jib point sheaves, is considered part of main boom load. Reeved hoist line included in boom weight. 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. Refer to boom rigging **No. 178288** and Wire Rope Specification chart **No. 7945-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 up to 14 m/s (10 m/s when jib is attached) provided crane operator judgment is used to allow for wind effect on lifted load

and other considerations noted on capacity chart are followed.

A surface area of 1.2m²/t of rated load has been included in capacity determination. Wind will have a considerable effect on a load. Loads with a surface area greater than 1.2 m²/t of rated load must be compensated for accordingly by reducing load ratings, reducing operating speeds or by a combination of both. Recommend stopping operation and lowering boom to approximately 70 degree boom angle when wind exceeds 14 m/s (10 m/s when jib is attached). Lower boom and jib to ground when wind is above 22 m/s.

MACHINE TRAVEL: Machine to travel on a firm, level and uniformly supporting surface and boom within boom angle range shown in capacity chart.

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 7 544 mm crawlers, 965 mm or 1 219 mm treads, two 305 mm boom hoist cylinders, 7 925 mm mast, four 32 mm boom pendants, 64 410 kg crane counterweight and two 9 980 kg carbody counterweights.

Deduct From Capacities When Jib Is Attached	
Jib Length	Jib No. 134
9.1m	1 770 kg
12.2m	2 130 kg
15.2m	2 540 kg
18.3m	2 990 kg
21.3m	3 450 kg
24.4m	3 950 kg

Upper Boom Point Deduct
Deduct 450 kg from capacities when upper boom point is attached.

Auxiliary Drum Deduct
Deduct 770 kg from capacities when boom butt is equipped with auxiliary drum.

Consult jib chart for jib capacities. Upper boom point cannot be used when jib is attached

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Maximum Boom and Jib Lengths Lifted Unassisted					
Over Front of Blocked Crawlers		Over Rear of Blocked Crawlers		Over Side of Crawlers	
Boom Length	Jib No. 134	Boom Length	Jib No. 134	Boom Length	Jib No. 134
(a) 79.2m	---	(a) 79.2m	---	70.1m	---
(a) 76.2m	---	76.2m	---	67.1m	---
73.2m	---	73.2m	---	64.0m	15.2m
70.1m	---	70.1m	---	61.0m	21.3m
67.1m	15.2m	67.1m	15.2m	57.9m	24.4m
64.0m	24.4m	64.0m	24.4m		

Load block, hook and weight ball on ground at start.
(a) upper boom point cannot be used on 76.2m and 79.2m booms. Auxiliary drum in boom butt and wire rope guide in 3.0m insert cannot be used on 79.2m boom.

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
18.3m (60 ft.) BOOM			
4.0	82.4	20.4	160 000*
4.5	80.7	20.3	145 500*
5.0	79.1	20.2	131 400*
5.5	77.5	20.1	119 900*
6.0	75.9	19.9	110 200*
7.0	72.6	19.6	94 700*
8.0	69.2	19.2	82 900*
9.0	65.8	18.8	73 600*
10.0	62.3	18.3	66 000*
11.0	58.6	17.7	58 900
12.0	54.8	17.0	52 000
14.0	46.5	15.2	41 700
16.0	36.8	12.9	34 500
18.0	23.8	9.2	29 200
21.3m (70 ft.) BOOM			
4.3	82.7	23.4	140 500*
4.5	82.0	23.4	138 100*
5.0	80.7	23.3	131 000*
5.5	79.3	23.2	119 900*
6.0	77.9	23.1	110 100*
7.0	75.2	22.8	94 700*
8.0	72.3	22.5	82 800*
9.0	69.5	22.1	73 500*
10.0	66.6	21.7	65 900
11.0	63.6	21.2	59 000
12.0	60.5	20.6	52 100
14.0	54.0	19.3	41 800
16.0	46.9	17.6	34 700
18.0	38.8	15.3	29 300
20.0	28.8	12.2	25 300

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
24.4m (80 ft.) BOOM			
4.6	82.9	26.4	124 900*
5.0	81.9	26.4	119 900*
5.5	80.7	26.3	114 500*
6.0	79.5	26.2	109 400*
7.0	77.1	26.0	94 600*
8.0	74.6	25.7	82 700
9.0	72.2	25.4	72 400
10.0	69.6	25.0	64 100
11.0	67.1	24.6	57 400
12.0	64.5	24.1	51 900
14.0	59.1	23.0	41 900
16.0	53.4	21.6	34 700
18.0	47.2	19.9	29 300
20.0	40.2	17.7	25 200
22.0	32.0	14.8	22 000
24.0	21.0	10.6	19 400
27.4m (90 ft.) BOOM			
4.9	83.0	29.5	116 400*
5.0	82.8	29.5	115 100*
5.5	81.7	29.4	110 100*
6.0	80.6	29.3	105 500*
7.0	78.5	29.1	93 400
8.0	76.4	28.9	80 000
9.0	74.2	28.6	70 100
10.0	72.0	28.3	62 200
11.0	69.8	27.9	55 800
12.0	67.5	27.5	50 500
14.0	62.9	26.5	41 900
16.0	58.0	25.3	34 600
18.0	52.9	23.9	29 300
20.0	47.4	22.2	25 200
22.0	41.3	20.0	22 000
24.0	34.3	17.4	19 400
26.0	25.7	13.8	17 200

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 ft.) BOOM			
5.5	82.6	32.5	100 400*
6.0	81.6	32.4	96 300*
7.0	79.7	32.2	88 400
8.0	77.8	32.0	77 300
9.0	75.8	31.7	67 900
10.0	73.9	31.5	60 400
11.0	71.9	31.1	54 300
12.0	69.9	30.8	49 200
14.0	65.8	29.9	41 200
16.0	61.6	28.9	34 700
18.0	57.2	27.7	29 300
20.0	52.5	26.2	25 100
22.0	47.5	24.5	21 900
24.0	42.1	22.4	19 300
26.0	36.0	19.8	17 100
28.0	28.8	16.6	15 300
30.0	19.3	11.9	13 700
33.5m (110 ft.) BOOM			
5.8	82.7	35.5	95 700*
6.0	82.4	35.5	94 000*
7.0	80.6	35.3	85 800
8.0	78.9	35.1	74 700
9.0	77.1	34.9	65 800
10.0	75.4	34.6	58 700
11.0	73.6	34.3	52 800
12.0	71.8	34.0	48 000
14.0	68.1	33.2	40 300
16.0	64.4	32.3	34 300
18.0	60.5	31.3	29 200
20.0	56.4	30.0	25 000
22.0	52.2	28.5	21 800
24.0	47.7	26.8	19 100
26.0	42.8	24.7	17 000
28.0	37.4	22.3	15 200
30.0	31.2	19.3	13 600
32.0	23.5	15.3	12 300

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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
36.6m (120 ft.) BOOM			
6.1	82.9	38.5	87 100*
7.0	81.4	38.4	81 400
8.0	79.8	38.2	72 400
9.0	78.2	38.0	64 000
10.0	76.6	37.8	57 200
11.0	75.0	37.5	51 600
12.0	73.4	37.2	46 800
14.0	70.1	36.5	39 400
16.0	66.7	35.7	33 800
18.0	63.2	34.7	29 200
20.0	59.6	33.6	25 000
22.0	55.8	32.3	21 800
24.0	51.9	30.8	19 100
26.0	47.8	29.1	17 000
28.0	43.3	27.1	15 100
30.0	38.5	24.7	13 500
32.0	33.0	21.8	12 200
34.0	26.6	18.2	11 000
39.6m (130 ft.) BOOM			
6.7	82.5	41.5	79 800*
7.0	82.1	41.5	78 100*
8.0	80.6	41.3	70 200
9.0	79.1	41.1	62 200
10.0	77.7	40.9	55 700
11.0	76.2	40.7	50 300
12.0	74.7	40.4	45 800
14.0	71.6	39.8	38 500
16.0	68.6	39.0	33 100
18.0	65.4	38.1	28 800
20.0	62.2	37.1	25 000
22.0	58.8	36.0	21 700
24.0	55.3	34.6	19 100
26.0	51.7	33.1	16 900
28.0	47.9	31.4	15 000
30.0	43.8	29.4	13 400
32.0	39.4	27.1	12 100
34.0	34.5	24.3	10 900
36.0	28.9	21.0	9 900
38.0	21.9	16.7	9 000
42.7m (140 ft.) BOOM			
7.3	82.2	44.5	71 600*
8.0	81.3	44.4	68 000
9.0	79.9	44.2	60 300
10.0	78.6	44.0	54 100
11.0	77.2	43.8	48 900
12.0	75.8	43.6	44 500
14.0	73.0	43.0	37 600
16.0	70.2	42.3	32 300
18.0	67.3	41.5	28 100
20.0	64.3	40.6	24 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 ft.) BOOM			
22.0	61.3	39.5	21 500
24.0	58.1	38.3	18 900
26.0	54.9	36.9	16 600
28.0	51.5	35.4	14 800
30.0	48.0	33.7	13 200
32.0	44.2	31.7	11 900
34.0	40.1	29.4	10 700
36.0	35.7	26.8	9 700
38.0	30.7	23.7	8 700
40.0	24.8	19.8	8 000
45.7m (150 ft.) BOOM			
7.3	82.8	47.6	69 100*
8.0	81.9	47.5	65 800
9.0	80.6	47.3	58 500
10.0	79.3	47.2	52 600
11.0	78.1	46.9	47 600
12.0	76.8	46.7	43 400
14.0	74.2	46.2	36 600
16.0	71.5	45.5	31 500
18.0	68.9	44.8	27 400
20.0	66.1	43.9	24 100
22.0	63.4	43.0	21 300
24.0	60.5	41.9	18 700
26.0	57.6	40.6	16 500
28.0	54.5	39.3	14 600
30.0	51.3	37.7	13 000
32.0	48.0	36.0	11 700
34.0	44.5	34.0	10 500
36.0	40.8	31.8	9 500
38.0	36.7	29.3	8 600
40.0	32.2	26.3	7 700
42.0	27.1	22.7	7 000
44.0	20.7	18.0	6 400
48.8m (160 ft.) BOOM			
7.9	82.5	50.6	63 000*
8.0	82.4	50.6	62 600
9.0	81.2	50.4	57 100
10.0	80.0	50.3	51 300
11.0	78.8	50.1	46 500
12.0	77.6	49.8	42 400
14.0	75.2	49.3	35 900
16.0	72.7	48.7	30 900
18.0	70.3	48.0	26 900
20.0	67.7	47.3	23 700
22.0	65.1	46.4	21 000
24.0	62.5	45.4	18 700
26.0	59.8	44.2	16 500

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 ft.) BOOM			
28.0	57.0	43.0	14 600
30.0	54.2	41.6	13 000
32.0	51.2	40.0	11 700
34.0	48.1	38.3	10 400
36.0	44.8	36.3	9 400
38.0	41.3	34.2	8 500
40.0	37.6	31.7	7 700
42.0	33.5	28.8	6 900
44.0	28.9	25.4	6 300
46.0	23.4	21.3	5 700
51.8m (170 ft.) BOOM			
7.9	82.9	53.7	60 500*
8.0	82.8	53.7	60 200*
9.0	81.7	53.5	55 400
10.0	80.6	53.4	49 900
11.0	79.5	53.2	45 200
12.0	78.4	53.0	41 400
14.0	76.1	52.5	35 000
16.0	73.8	51.9	30 200
18.0	71.5	51.3	26 300
20.0	69.1	50.5	23 100
22.0	66.7	49.7	20 500
24.0	64.3	48.8	18 300
26.0	61.8	47.7	16 300
28.0	59.2	46.6	14 400
30.0	56.6	45.3	12 800
32.0	53.9	43.9	11 400
34.0	51.1	42.3	10 300
36.0	48.1	40.6	9 200
38.0	45.1	38.7	8 300
40.0	41.8	36.5	7 500
42.0	38.4	34.1	6 700
44.0	34.6	31.3	6 100
46.0	30.4	28.1	5 500
48.0	25.6	24.3	5 000
50.0	19.7	19.4	4 500

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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 ft.) BOOM			
8.5	82.7	56.7	53 700*
9.0	82.2	56.6	52 600*
10.0	81.1	56.4	48 500
11.0	80.1	56.3	44 100
12.0	79.0	56.1	40 300
14.0	76.9	55.6	34 100
16.0	74.7	55.1	29 400
18.0	72.5	54.5	25 600
20.0	70.3	53.8	22 500
22.0	68.1	53.0	19 900
24.0	65.8	52.2	17 800
26.0	63.5	51.2	15 900
28.0	61.1	50.1	14 200
30.0	58.7	48.9	12 600
32.0	56.2	47.6	11 200
34.0	53.6	46.2	10 000
36.0	51.0	44.6	8 900
38.0	48.2	42.9	8 000
40.0	45.3	41.0	7 200
42.0	42.3	38.8	6 500
44.0	39.0	36.5	5 800
46.0	35.5	33.8	5 200
48.0	31.7	30.7	4 700
50.0	27.4	27.1	4 200
52.0	22.3	22.7	3 800
57.9m (190 ft.) BOOM			
9.1	82.5	59.7	51 400
10.0	81.6	59.5	47 200
11.0	80.6	59.4	42 900
12.0	79.6	59.2	39 300
14.0	77.6	58.8	33 300
16.0	75.5	58.3	28 700
18.0	73.5	57.7	25 000
20.0	71.4	57.0	22 000
22.0	69.3	56.3	19 400
24.0	67.1	55.5	17 300
26.0	65.0	54.6	15 400
28.0	62.8	53.6	13 900
30.0	60.5	52.5	12 400
32.0	58.2	51.3	11 000
34.0	55.8	49.9	9 800
36.0	53.4	48.5	8 800
38.0	50.9	46.9	7 800
40.0	48.2	45.2	7 000
42.0	45.5	43.3	6 300
44.0	42.6	41.2	5 600
46.0	39.6	38.8	5 000
48.0	36.3	36.2	4 400
50.0	32.8	33.3	3 900
52.0	28.9	29.9	3 500
54.0	24.4	25.8	3 100
56.0	18.9	20.7	2 700

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
61.0m (200 ft.) BOOM			
9.1	82.8	62.7	49 700*
10.0	82.0	62.6	46 000
11.0	81.1	62.5	41 800
12.0	80.1	62.3	38 300
14.0	78.2	61.9	32 500
16.0	76.3	61.4	28 000
18.0	74.3	60.9	24 400
20.0	72.4	60.3	21 400
22.0	70.4	59.6	18 900
24.0	68.4	58.8	16 800
26.0	66.3	57.9	15 000
28.0	64.2	57.0	13 500
30.0	62.1	56.0	12 100
32.0	60.0	54.8	10 800
34.0	57.8	53.6	9 700
36.0	55.5	52.3	8 600
38.0	53.2	50.8	7 700
40.0	50.8	49.2	6 800
42.0	48.3	47.5	6 100
44.0	45.7	45.6	5 400
46.0	43.0	43.5	4 800
48.0	40.1	41.2	4 200
50.0	37.1	38.7	3 700
52.0	33.8	35.8	3 300
54.0	30.2	32.5	2 900
56.0	26.1	28.7	2 500
58.0	21.4	24.1	2 200
64.0m (210 ft.) BOOM			
9.8	82.6	65.7	45 800
10.0	82.4	65.7	44 700
11.0	81.5	65.5	40 700
12.0	80.6	65.4	37 300
14.0	78.8	65.0	31 700
16.0	76.9	64.6	27 300
18.0	75.1	64.0	23 800
20.0	73.2	63.5	20 900
22.0	71.3	62.8	18 500
24.0	69.4	62.1	16 400
26.0	67.5	61.3	14 600
28.0	65.5	60.4	13 100
30.0	63.6	59.4	11 700
32.0	61.5	58.3	10 600
34.0	59.5	57.2	9 500
36.0	57.4	55.9	8 400

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
64.0m (210 ft.) BOOM			
38.0	55.2	54.6	7 500
40.0	53.0	53.1	6 600
42.0	50.7	51.5	5 900
44.0	48.3	49.8	5 200
46.0	45.8	47.9	4 600
48.0	43.3	45.8	4 100
50.0	40.6	43.6	3 600
52.0	37.7	41.1	3 100
54.0	34.6	38.3	2 700
56.0	31.3	35.2	2 300
67.1m (220 ft.) BOOM			
9.8	83.0	68.8	44 500
10.0	82.8	68.8	43 500
11.0	81.9	68.6	39 600
12.0	81.0	68.5	36 300
14.0	79.3	68.1	30 900
16.0	77.5	67.7	26 600
18.0	75.8	67.2	23 200
20.0	74.0	66.6	20 300
22.0	72.2	66.0	17 900
24.0	70.4	65.3	15 900
26.0	68.6	64.6	14 100
28.0	66.7	63.7	12 600
30.0	64.9	62.8	11 300
32.0	62.9	61.8	10 100
34.0	61.0	60.7	9 100
36.0	59.0	59.6	8 100
38.0	57.0	58.3	7 200
40.0	54.9	56.9	6 400
42.0	52.8	55.4	5 600
44.0	50.6	53.8	5 000
46.0	48.3	52.1	4 400
48.0	46.0	50.2	3 800
50.0	43.5	48.2	3 300
52.0	41.0	45.9	2 800
54.0	38.3	43.5	2 400
56.0	35.4	40.8	2 000

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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
70.1m (230 ft.) BOOM			
10.4	82.8	71.8	40 900
11.0	82.2	71.7	38 600
12.0	81.4	71.6	35 400
14.0	79.8	71.2	30 100
16.0	78.1	70.8	25 900
18.0	76.4	70.3	22 600
20.0	74.7	69.8	19 800
22.0	73.0	69.2	17 400
24.0	71.3	68.6	15 400
26.0	69.6	67.8	13 700
28.0	67.8	67.0	12 200
30.0	66.0	66.2	10 900
32.0	64.2	65.2	9 700
34.0	62.4	64.2	8 700
36.0	60.5	63.1	7 800
38.0	58.6	61.9	6 900
40.0	56.7	60.6	6 200
42.0	54.7	59.2	5 400
44.0	52.6	57.7	4 700
46.0	50.5	56.1	4 100
48.0	48.4	54.4	3 600
50.0	46.1	52.5	3 100
52.0	43.8	50.5	2 600
54.0	41.4	48.3	2 200
73.2m (240 ft.) BOOM			
11.0	82.6	74.8	37 800
12.0	81.8	74.6	34 600
14.0	80.2	74.3	29 500
16.0	78.6	73.9	25 500
18.0	77.0	73.5	22 100
20.0	75.4	73.0	19 400
22.0	73.8	72.4	17 100
24.0	72.1	71.8	15 200
26.0	70.5	71.1	13 500
28.0	68.8	70.3	12 000
30.0	67.1	69.5	10 700
32.0	65.4	68.6	9 600
34.0	63.6	67.6	8 500
36.0	61.9	66.6	7 600
38.0	60.1	65.5	6 800
40.0	58.2	64.2	6 000
42.0	56.4	62.9	5 300
44.0	54.4	61.5	4 700
46.0	52.5	60.0	4 100
48.0	50.5	58.4	3 600
50.0	48.4	56.7	3 000
52.0	46.3	54.8	2 500
54.0	44.0	52.8	2 100

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
76.2m (250 ft.) BOOM			
11.6	82.4	77.8	35 000
12.0	82.1	77.7	33 800
14.0	80.6	77.4	28 700
16.0	79.1	77.0	24 800
18.0	77.5	76.6	21 600
20.0	76.0	76.1	18 900
22.0	74.4	75.6	16 600
24.0	72.8	75.0	14 700
26.0	71.3	74.3	13 000
28.0	69.7	73.6	11 600
30.0	68.0	72.8	10 300
32.0	66.4	72.0	9 200
34.0	64.8	71.0	8 200
36.0	63.1	70.0	7 200
38.0	61.4	69.0	6 400
40.0	59.6	67.8	5 700
42.0	57.9	66.6	5 000
44.0	56.1	65.3	4 400
46.0	54.2	63.9	3 800
48.0	52.3	62.3	3 300
50.0	50.4	60.7	2 800
52.0	48.4	59.0	2 300
79.2m (260 ft.) BOOM			
12.2	82.3	80.8	31 700*
14.0	81.0	80.5	28 000
16.0	79.5	80.1	24 100
18.0	78.0	79.7	21 000
20.0	76.5	79.3	18 300
22.0	75.0	78.7	16 100
24.0	73.5	78.2	14 200
26.0	72.0	77.5	12 600
28.0	70.5	76.8	11 100
30.0	68.9	76.1	9 900
32.0	67.4	75.3	8 800
34.0	65.8	74.4	7 700
36.0	64.2	73.4	6 800
38.0	62.6	72.4	6 000
40.0	60.9	71.3	5 300
42.0	59.3	70.2	4 600
44.0	57.5	68.9	4 000
46.0	55.8	67.6	3 500
48.0	54.0	66.2	2 900
50.0	52.2	64.6	2 500
52.0	50.4	63.0	2 000