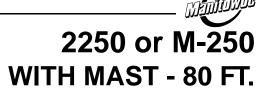
Manitowoc, Wisconsin 54220 U.S.A.

Liftcrane Boom Capacities Boom No. 49A-44 With Heavy Lift Top No Crane Counterweight





LIFTING CAPACITIES: Lifting capacities for various boom lengths and operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (*).

Upper boom point capacity for liftcrane service with single part whip line is 30,000 Lbs. or 60,000 Lbs. with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom point sheaves, is considered part of main boom load. 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 on a firm uniformly supporting surface with gantry and mast up. Refer to boom rigging No. 176364 or No. 192633 and Wire Rope Specification chart No. 7581-L. 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.

MACHINE TRAVEL: Machine to travel on a firm, level and uniformly supporting surface with boom within boom angle range shown in capacity chart. Travel may be limited depending upon ground conditions. Refer to Maximum Allowable Travel Specification chart No. 7748-B when operating without load.

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 30 Ft. 9 in. crawlers, 48 in. treads, 28 Ft. retractable gantry, 80 Ft. mast, 12 part boom hoist reeving, four 1-1/2 in. boom pendants or boom support straps and no crane counterweight.

Maximum Boom Lengths Lifted Unassisted					
Over End of Blocked Crawlers	Over Side of Crawlers				
Boom Length	Boom Length				
160 Ft.	140 Ft.				
Load block, hook and weight ball on ground at start.					

Liftcrane Boom Capacities

79,700

Boom No. 49A-44 With Heavy Lift Top No Crane Counterweight 360 Degree Rating

> Boom Point

Elev.

Feet

100 Ft. BOOM

108.8

108.7

108.5

108.3

108.1

107.9

107.5

107.0

106.4

105.9

105.3

104.6

103.9

103.1

102.3

101.4

100.5

99.6

96.9

93.8

90.4

86.4

81.9

76.7

70.6

63.4

54.5 120 Ft. BOOM

128.7

128.6

128.4

128.3

127.9

127.5

127.1

126.6

126.1

125.5

124.9

124.3

123.7

123.0

122.2

Oper.

Rad.

Feet

21

22

23

24

25

26

28

30

32

34

36

38

40

42

44

46

48

50

55

60

65

70

75

80

85

90

95

23 24

25

26

28

30

32

34

36

38

40

42

44

46 48 Boom

Ang.

Deg.

82.7

82.1

81.5

81.0

80.4

79.8

78.6

77.4

76.2

75.1

73.9

72.7

71.4

70.2

69.0

67.7

66.5

65.2

61.9

58.6

55.1

51.4

47.6

43.4

38.9

33.9

28.1

83.0

82.5

82.0

81.5

80.5

79.6

78.6

77.6

76.6

75.6

74.6

73.6

72.6

71.6

70.6

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Boom Capacity Pounds	Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds	
ОМ	120 Ft. BOOM				
355,700	50	69.6	121.4	74,500	
320,400	55	67.0	119.3	63,600	
291,200	60	64.3	116.9	54,900	
266,700	65	61.6	114.2	47,800	
245,700	70	58.8	111.2	42,000	
227,600	75	56.0	107.8	37,000	
197,900	80	53.0	104.0	32,700	
174,600	85	49.9	99.8	29,000	
155,800	90	46.6	95.2	25,800	
140,300	95	43.1	89.9	23,000	
127,300	100	39.4	83.9	20,400	
116,200	105	35.3	77.0	18,100	
106,700	110	30.8	68.9	16,100	
98,500	115	25.5	58.9	14,200	
91,200	140 Ft. BOOM				
84,800					
79,100	26	82.7	148.5	226,300	
73,900	28	81.9	148.2	196,300	
63,100	30	81.1	147.9	172,800	
54,600	32	80.2	147.5	153,800	
47,600	34	79.4	147.1	138,100	
41,700	36	78.6	146.6	125,000	
36,800	38	77.7	146.2	113,900	
32,600	40	76.9	145.7	104,300	
28,900	42	76.0	145.2	95,900	
25,700	44	75.2	144.6	88,600	
22,900	46	74.3	144.0	82,100	
ОM	48	73.5	143.4	76,300	
	50	72.6	142.7	71,100	
293,900	55	70.4	141.0	60,200	
269,100	60	68.2	138.9	51,600	
248,000	65 70	66.0	136.7	44,500	
229,700	70 75	63.7 61.4	134.2 131.5	38,700 33,700	
199,700					
176,100	80	59.0	128.5	29,500	
157,100	85 90	56.5 54.0	125.2 121.6	25,800 22,600	
141,500	90 95	54.0 51.4	121.6	19,800	
128,400	100	51.4 48.7	117.6	19,000	
117,200	100	48.7 45.9	115.2	17,200 15,000	
107,600	103	43.9	108.4	12,900	
99,300	110	42.9 39.7	97.2	12,900	
91,900 85,400	115	57.1	11.4	11,100	
0					

Oper. Rad. Feet	Boom Ang. Deg.	Boom Point Elev. Feet	Boom Capacity Pounds				
160 Ft. BOOM							
28	82.9	168.4	197,600				
30	82.2	168.1	173,800				
32	81.5	167.8	154,700				
34	80.7	167.5	138,900				
36	80.0	167.1	125,700				
38	79.3	166.7	114,500				
40	78.6	166.2	104,800				
42	77.8	165.8	96,400				
44	77.1	165.3	89,100				
46	76.3	164.8	82,500				
48	75.6	164.3	76,700				
50	74.9	163.7	71,500				
55	73.0	162.1	60,500				
60	71.1	160.4	51,800				
65	69.2	158.5	44,700				
70	67.2	156.4	38,800				
75	65.3	154.1	33,800				
80	63.3	151.6	29,600				
85	61.2	148.8	25,900				
90	59.1	145.8	22,600				
95	57.0	142.6	19,800				
100	54.8	139.1	17,300				
105	52.6	135.3	15,000				
110	50.2	131.1	12,900				
115	47.8	126.6	11,100				

2250 or M-250

WITH MAST - 80 FT.