

MANITOWOC ENGINEERING CO.

Division of the Manitowoc Company, Inc. Manitowoc, Wisconsin 54220



LIFTCRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-250 SPECIAL

BOOM NO. 44 WITH HEAVY LIFT TOP
45 720 kg COUNTERWEIGHT
360 DEGREE RATING

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 13 610 kg OR 27 220 kg WITH TWO PART WHIP LINE. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR THE MAIN BOOM CAPACITY.

76.2m BOOM LENGTH REQUIRES ONLY THE MIDDLE 3 SHEAVES TO BE USED ON LOWER BOOM POINT. ALL OTHER SHEAVES MUST BE REMOVED FROM LOWER BOOM POINT.

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.

MACHINE TO OPERATE IN A LEVEL POSITION ON A FIRM UNIFORMLY SUPPORTING SURFACE WITH GANTRY UP. REFER TO BOOM RIGGING NO. 172610, WIRE ROPE SPECIFICATION CHART NO. 7581-A AND COUNTERWEIGHT ARRANGEMENT CHART NO. 7692-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.

MACHINE MAY BE OPERATED WITHIN WIND LIMITS SHOWN IN TABLE PROVIDED CRANE OPERATOR JUDGMENT IS USED TO ALLOW FOR WIND EFFECT ON THE LIFTED LOAD AND OTHER CONSIDERATIONS NOTED ON THE CAPACITY CHART ARE FOLLOWED. WIND WILL HAVE A CONSIDERABLE EFFECT ON A 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. RECOMMEND STOPPING OPERATION WHEN WIND EXCEEDS THOSE SHOWN IN TABLE. LOWER BOOM TO GROUND WHEN WIND IS ABOVE 22 m/s.

MACHINE TO TRAVEL ON A FIRM, LEVEL AND UNIFORMLY SUPPORTING SURFACE AND BOOM WITHIN BOOM ANGLE RANGE SHOWN IN CAPACITY CHART.

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 IS VERTICAL DISTANCE FROM GROUND LEVEL TO CENTERLINE OF BOOM POINT SHAFT.

MACHINE EQUIPPED WITH 9 373 mm CRAWLERS, 1 219 mm TREADS, 8 534 mm RETRACTABLE GANTRY, 12 PART BOOM HOIST REEVING, FOUR 38 mm BOOM PENDANTS, AND 45 720 kg COUNTERWEIGHT.

WIND LIMITS DURING OPERATION	
MAXIMUM WIND VELOCITY	BOOM LENGTH
m/s	METERS
13	21.3 - 61.0
11	64.0 - 73.2
9	76.2

MAXIMUM BOOM LENGTHS LIFTED UNASSISTED		
OVER FRONT OF BLOCKED CRAWLERS BOOM LENGTH	OVER REAR OF BLOCKED CRAWLERS BOOM LENGTH	OVER SIDE OF CRAWLERS BOOM LENGTH
76.2m	70.1m	64.0m
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START.		

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY KILOGRAMS
21.3	70	5.5	82.9	23.5	250 000*
		6.0	81.5	23.4	236 900*
		6.5	80.2	23.3	208 800
		7.0	78.8	23.2	177 600
		7.5	77.4	23.1	154 800
		8.0	76.0	22.9	137 000
		8.5	74.6	22.8	122 700
		9.0	73.2	22.6	111 100
		10.0	70.3	22.2	93 000
		11.0	67.4	21.8	79 800
		12.0	64.4	21.3	69 700
		13.0	61.3	20.7	61 700
		14.0	58.1	20.1	55 200
		15.0	54.8	19.4	49 800
		16.0	51.4	18.5	45 300
		18.0	43.8	16.6	38 100
		20.0	34.8	13.9	32 700
BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY KILOGRAMS
24.4	80	6.1	82.4	26.5	232 300*
		6.5	81.4	26.4	208 900
		7.0	80.2	26.3	177 700
		7.5	79.0	26.2	154 800
		8.0	77.8	26.1	137 000
		8.5	76.6	26.0	122 700
		9.0	75.4	25.8	111 000
		10.0	72.9	25.5	92 900
		11.0	70.4	25.1	79 700
		12.0	67.8	24.7	69 600
		13.0	65.2	24.2	61 500
		14.0	62.6	23.7	55 000
		15.0	59.8	23.1	49 700
		16.0	57.0	22.4	45 100
		18.0	51.1	20.8	37 900
		20.0	44.5	18.9	32 500
		22.0	37.0	16.4	28 200
		24.0	27.6	13.0	24 800

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BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY KILOGRAMS
2 7 · 4	9 0	6.4	82.6	29.5	215 400
		6.5	82.4	29.5	208 600
		7.0	81.3	29.4	177 700
		7.5	80.3	29.3	154 800
		8.0	79.2	29.2	137 000
		8.5	78.1	29.1	122 700
		9.0	77.0	29.0	111 000
		10.0	74.9	28.7	92 900
		11.0	72.7	28.4	79 700
		12.0	70.4	28.0	69 500
		13.0	68.2	27.6	61 500
		14.0	65.9	27.1	55 000
		15.0	63.5	26.6	49 600
		16.0	61.1	26.0	45 000
		18.0	56.1	24.7	37 900
		20.0	50.8	23.1	32 500
3 0 · 5	1 0 0	22.0	45.0	21.2	28 200
		24.0	38.5	18.8	24 700
		6.7	82.8	32.6	194 500
		7.0	82.2	32.5	177 800
		7.5	81.2	32.4	154 800
		8.0	80.3	32.3	136 900
		8.5	79.3	32.2	122 600
		9.0	78.4	32.1	110 900
		10.0	76.4	31.9	92 800
		11.0	74.5	31.6	79 500
		12.0	72.5	31.2	69 300
		13.0	70.5	30.9	61 300
		14.0	68.5	30.5	54 800
		15.0	66.4	30.0	49 400
		16.0	64.3	29.5	44 800
		18.0	60.0	28.4	37 600
3 3 · 5	1 1 0	20.0	55.4	27.0	32 200
		22.0	50.6	25.4	27 900
		24.0	45.4	23.5	24 500
		26.0	39.7	21.2	21 600
		28.0	33.1	18.3	19 300
		7.0	82.9	35.6	169 800*
		7.5	82.0	35.5	155 600
		8.0	81.2	35.4	136 900
		8.5	80.3	35.3	122 600
		9.0	79.4	35.2	110 800
		10.0	77.7	35.0	92 700
		11.0	75.9	34.7	79 400
		12.0	74.1	34.4	69 200
		13.0	72.3	34.1	61 200
		14.0	70.5	33.8	54 600
		15.0	68.7	33.3	49 200
3 6 · 6	1 2 0	16.0	66.8	32.9	44 700
		18.0	63.0	31.9	37 500
		20.0	59.0	30.7	32 100
		22.0	54.9	29.3	27 800
		24.0	50.5	27.7	24 300
		26.0	45.8	25.8	21 500
		28.0	40.6	23.6	19 100
		30.0	34.9	20.9	17 100
		32.0	28.0	17.4	15 300
		7.3	83.0	38.6	162 500
		7.5	82.7	38.6	154 900
		8.0	81.9	38.5	136 800
		8.5	81.1	38.4	122 400
		9.0	80.3	38.3	110 700
		10.0	78.7	38.1	92 500
		11.0	77.1	37.9	79 200
3 9 · 6	1 3 0	12.0	75.5	37.6	69 000
		13.0	73.9	37.3	60 900
		14.0	72.2	37.0	54 400
		15.0	70.5	36.6	49 000
		16.0	68.9	36.2	44 400
		18.0	65.4	35.3	37 200
		20.0	61.9	34.3	31 800
		22.0	58.2	33.1	27 500
		24.0	54.4	31.7	24 000
		26.0	50.4	30.0	21 200
		28.0	46.1	28.2	18 800
		30.0	41.4	26.0	16 800
		32.0	36.3	23.4	15 100
		34.0	30.3	20.1	13 500
		7.9	82.7	41.6	139 200
4 2 · 7	1 4 0	8.0	82.6	41.6	136 900
		8.5	81.8	41.5	122 400
		9.0	81.1	41.4	110 700
		10.0	79.6	41.3	92 500
		11.0	78.1	41.0	79 200
		12.0	76.6	40.8	69 000
		13.0	75.1	40.5	60 900
		14.0	73.6	40.2	54 400
		15.0	72.1	39.9	49 000
		16.0	70.6	39.5	44 400
		18.0	67.4	38.7	37 200
		20.0	64.2	37.7	31 700
		22.0	60.9	36.6	27 500
		24.0	57.5	35.4	24 000
		26.0	54.0	34.0	21 200
		28.0	50.3	32.3	18 800
4 6 · 7	1 6 0	30.0	46.3	30.5	16 800
		32.0	42.0	28.3	15 000
		34.0	37.4	25.8	13 500
		36.0	32.2	22.8	12 200
		38.0	25.9	19.0	11 000
		8.2	82.8	44.7	129 700
		8.5	82.4	44.6	122 400
		9.0	81.7	44.5	110 500
		10.0	80.4	44.4	92 300
		11.0	79.0	44.2	79 000
		12.0	77.6	43.9	68 800
		13.0	76.2	43.7	60 700
		14.0	74.8	43.4	54 100
		15.0	73.4	43.1	48 700
		16.0	72.0	42.8	44 200
		18.0	69.1	42.0	37 000
4 8 · 7	1 8 0	20.0	66.2	41.1	31 500
		22.0	63.2	40.1	27 200
		24.0	60.1	39.0	23 700
		26.0	56.9	37.7	20 900
		28.0	53.6	36.3	18 500
		30.0	50.2	34.6	16 500
		32.0	46.5	32.8	14 700
		34.0	42.6	30.7	13 200
		36.0	38.3	28.2	11 900
		38.0	33.6	25.3	10 700
		8.2	82.4	44.6	122 400
		8.5	81.7	44.5	110 500
		9.0	80.4	44.4	92 300
		10.0	79.0	44.2	79 000
		11.0	77.6	43.9	68 800
		12.0	76.2	43.7	60 700

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4 5 · 7	1 5 0	8.5	82.9	47.7	121 300
		9.0	82.3	47.6	110 400
		10.0	81.0	47.5	92 200
		11.0	79.7	47.3	78 800
		12.0	78.5	47.1	68 600
		13.0	77.2	46.8	60 500
		14.0	75.9	46.6	54 000
		15.0	74.6	46.3	48 500
		16.0	73.3	46.0	44 000
		18.0	70.6	45.3	36 700
		20.0	67.9	44.5	31 300
		22.0	65.2	43.6	27 000
		24.0	62.3	42.5	23 500
		26.0	59.4	41.4	20 600
		28.0	56.4	40.0	18 300
		30.0	53.3	38.6	16 200
		32.0	50.1	36.9	14 500
		34.0	46.7	35.1	13 000
		36.0	43.0	33.0	11 600
		38.0	39.1	30.6	10 500
40.0	34.9	27.8	9 400		
42.0	30.1	24.6	8 400		
4 8 · 8	1 6 0	8.8	83.0	50.7	113 800
		9.0	82.8	50.7	110 300
		10.0	81.6	50.6	92 000
		11.0	80.4	50.4	78 600
		12.0	79.2	50.2	68 400
		13.0	78.0	50.0	60 300
		14.0	76.8	49.7	53 700
		15.0	75.6	49.4	48 300
		16.0	74.3	49.2	43 700
		18.0	71.9	48.5	36 500
		20.0	69.4	47.8	31 000
		22.0	66.8	46.9	26 700
		24.0	64.2	46.0	23 200
		26.0	61.5	44.9	20 300
		28.0	58.8	43.7	18 000
		30.0	56.0	42.4	15 900
		32.0	53.1	40.9	14 200
		34.0	50.0	39.2	12 700
		36.0	46.8	37.4	11 300
		38.0	43.4	35.3	10 200
40.0	39.8	33.0	9 100		
42.0	35.9	30.3	8 100		
44.0	31.6	27.2	7 300		
5 1 · 8	1 7 0	9.1	83.0	53.8	107 200
		10.0	82.1	53.6	91 900
		11.0	81.0	53.5	78 600
		12.0	79.8	53.3	68 300
		13.0	78.7	53.1	60 200
		14.0	77.6	52.9	53 600
		15.0	76.4	52.6	48 200
		16.0	75.3	52.3	43 700
		18.0	73.0	51.7	36 400
		20.0	70.6	51.0	30 900
		22.0	68.3	50.2	26 600
		24.0	65.8	49.4	23 100
		26.0	63.4	48.4	20 300
		28.0	60.8	47.3	17 900
		30.0	58.3	46.0	15 900
		32.0	55.6	44.7	14 200
		34.0	52.8	43.2	12 600
		36.0	50.0	41.5	11 300
		38.0	47.0	39.7	10 100
		40.0	43.8	37.7	9 100
42.0	40.4	35.4	8 100		
44.0	36.8	32.8	7 200		
46.0	32.8	29.8	6 500		
48.0	28.4	26.3	5 800		

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY KILOGRAMS
5 4 · 9	1 8 0	9.8	82.8	56.8	95 700
		10.0	82.5	56.7	92 000
		11.0	81.5	56.6	78 400
		12.0	80.4	56.4	68 100
		13.0	79.3	56.2	60 000
		14.0	78.3	56.0	53 400
		15.0	77.2	55.7	48 000
		16.0	76.1	55.5	43 400
		18.0	74.0	54.9	36 100
		20.0	71.8	54.3	30 600
		22.0	69.5	53.5	26 300
		24.0	67.3	52.7	22 900
		26.0	65.0	51.8	20 000
		28.0	62.6	50.7	17 600
		30.0	60.2	49.6	15 600
		32.0	57.8	48.4	13 800
		34.0	55.2	47.0	12 300
		36.0	52.6	45.5	11 000
		38.0	49.9	43.8	9 800
		40.0	47.1	42.0	8 700
42.0	44.1	40.0	7 800		
44.0	41.0	37.7	6 900		
46.0	37.6	35.2	6 200		
48.0	33.9	32.3	5 500		
50.0	29.9	29.0	4 800		
5 7 · 9	1 9 0	10.4	82.6	59.7	86 300
		11.0	81.9	59.7	78 200
		12.0	80.9	59.5	67 900
		13.0	79.9	59.3	59 800
		14.0	78.9	59.1	53 200
		15.0	77.9	58.9	47 800
		16.0	76.9	58.6	43 100
		18.0	74.8	58.1	35 900
		20.0	72.8	57.5	30 400
		22.0	70.7	56.8	26 100
		24.0	68.5	56.0	22 600
		26.0	66.4	55.1	19 700
		28.0	64.2	54.2	17 400
		30.0	61.9	53.1	15 300
		32.0	59.7	52.0	13 600
		34.0	57.3	50.7	12 000
		36.0	54.9	49.3	10 700
		38.0	52.4	47.8	9 500
		40.0	49.9	46.1	8 500
		42.0	47.2	44.3	7 500
44.0	44.4	42.3	6 700		
46.0	41.4	40.1	5 900		
48.0	38.3	37.6	5 200		
50.0	34.9	34.8	4 600		
52.0	31.2	31.6	4 000		
6 1 · 0	2 0 0	10.4	82.9	62.8	86 100
		11.0	82.3	62.7	78 000
		12.0	81.4	62.6	67 600
		13.0	80.4	62.4	59 500
		14.0	79.5	62.2	52 900
		15.0	78.5	62.0	47 500
		16.0	77.5	61.8	42 900
		18.0	75.6	61.3	35 600
		20.0	73.6	60.7	30 100
		22.0	71.7	60.0	25 800
		24.0	69.7	59.3	22 300
		26.0	67.6	58.5	19 500
		28.0	65.6	57.6	17 000
		30.0	63.5	56.6	15 000
		32.0	61.3	55.5	13 200
		34.0	59.2	54.3	11 700
		36.0	56.9	53.0	10 400
		38.0	54.6	51.6	9 200
		40.0	52.3	50.1	8 200
		42.0	49.8	48.4	7 200
44.0	47.3	46.6	6 400		
46.0	44.6	44.6	5 600		
48.0	41.8	42.4	4 900		
50.0	38.9	40.0	4 200		
52.0	35.7	37.3	3 700		
54.0	32.3	34.2	3 100		
56.0	28.5	30.7	2 600		

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BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY KILOGRAMS
6 4 0	2 1 0	11.0	82.7	65.8	78 200
		12.0	81.8	65.7	67 600
		13.0	80.9	65.5	59 400
		14.0	80.0	65.3	52 800
		15.0	79.1	65.1	47 400
		16.0	78.1	64.9	42 800
		18.0	76.3	64.4	35 500
		20.0	74.4	63.9	30 000
		22.0	72.6	63.2	25 700
		24.0	70.7	62.5	22 200
		26.0	68.8	61.8	19 300
		28.0	66.8	60.9	16 900
		30.0	64.8	60.0	14 900
		32.0	62.8	59.0	13 200
		34.0	60.8	57.9	11 600
		36.0	58.7	56.7	10 300
		38.0	56.6	55.4	9 100
		40.0	54.4	53.9	8 100
		42.0	52.1	52.4	7 100
		44.0	49.8	50.7	6 200
		46.0	47.4	48.9	5 500
		48.0	44.8	46.9	4 800
		50.0	42.2	44.8	4 100
		52.0	39.4	42.4	3 500
		54.0	36.4	39.7	3 000
		56.0	33.2	36.8	2 500
6 7 1	2 2 0	11.6	82.5	68.8	71 300
		12.0	82.2	68.7	67 400
		13.0	81.3	68.6	59 200
		14.0	80.4	68.4	52 600
		15.0	79.6	68.2	47 100
		16.0	78.7	68.0	42 500
		18.0	76.9	67.6	35 200
		20.0	75.2	67.0	29 700
		22.0	73.4	66.4	25 400
		24.0	71.6	65.8	21 900
		26.0	69.8	65.1	19 100
		28.0	67.9	64.2	16 600
		30.0	66.1	63.4	14 600
		32.0	64.2	62.4	12 800
		34.0	62.2	61.4	11 300
		36.0	60.3	60.2	10 000
		38.0	58.3	59.0	8 800
		40.0	56.2	57.7	7 700
		42.0	54.1	56.3	6 800
		44.0	52.0	54.7	5 900
		46.0	49.7	53.0	5 200
		48.0	47.4	51.2	4 500
		50.0	45.0	49.3	3 800
		52.0	42.5	47.1	3 300
		54.0	39.9	44.8	2 700
		56.0	37.1	42.2	2 200
7 0 1	2 3 0	11.6	82.9	71.9	71 100
		12.0	82.5	71.8	67 200
		13.0	81.7	71.7	59 000
		14.0	80.9	71.5	52 400
		15.0	80.0	71.3	46 900
		16.0	79.2	71.1	42 300
		18.0	77.5	70.7	35 000
		20.0	75.8	70.2	29 500
		22.0	74.1	69.6	25 200
		24.0	72.4	69.0	21 700
		26.0	70.7	68.3	18 800
		28.0	68.9	67.5	16 400
		30.0	67.2	66.7	14 300
		32.0	65.4	65.8	12 600
		34.0	63.6	64.8	11 000
		36.0	61.7	63.7	9 700
7 3 2	2 4 0	12.2	82.7	74.9	65 200
		13.0	82.0	74.8	58 700
		14.0	81.2	74.6	52 100
		15.0	80.4	74.4	46 700
		16.0	79.6	74.2	42 000
		18.0	78.0	73.8	34 700
		20.0	76.4	73.3	29 200
		22.0	74.8	72.8	24 900
		24.0	73.2	72.2	21 400
		26.0	71.5	71.5	18 500
		28.0	69.9	70.8	16 100
		30.0	68.2	70.0	14 000
		32.0	66.5	69.2	12 300
		34.0	64.7	68.2	10 800
		36.0	63.0	67.2	9 400
		38.0	61.2	66.1	8 200
		40.0	59.4	64.9	7 200
		42.0	57.5	63.7	6 200
		44.0	55.6	62.3	5 300
		46.0	53.7	60.9	4 600
		48.0	51.7	59.3	3 900
		50.0	49.7	57.6	3 200
		52.0	47.6	55.8	2 600
		54.0	45.4	53.9	2 100
7 6 2	2 5 0	12.2	83.0	78.0	65 500
		13.0	82.4	77.8	59 100
		14.0	81.6	77.7	52 500
		15.0	80.8	77.5	47 000
		16.0	80.1	77.3	42 400
		18.0	78.5	76.9	35 100
		20.0	77.0	76.5	29 600
		22.0	75.4	76.0	25 200
		24.0	73.9	75.4	21 700
		26.0	72.3	74.8	18 900
		28.0	70.7	74.1	16 500
		30.0	69.1	73.3	14 400
		32.0	67.5	72.5	12 700
		34.0	65.8	71.6	11 100
		36.0	64.2	70.6	9 800
		38.0	62.5	69.6	8 600
		40.0	60.7	68.5	7 600
		42.0	59.0	67.3	6 600
		44.0	57.2	66.0	5 700
		46.0	55.4	64.6	5 000
		48.0	53.5	63.2	4 300
		50.0	51.6	61.6	3 600
		52.0	49.6	59.9	3 000
		54.0	47.6	58.1	2 500
		56.0	45.5	56.2	2 000