

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES

JAPANESE
CODES

M-250

BOOM NO. 44 WITH HEAVY LIFT TOP

32 mm HOIST LINE

28 mm WHIP LINE

75 750 kg COUNTERWEIGHT

360 DEGREE RATING

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADII ARE FOR FREELY SUSPENDED LOADS AND ARE CALCULATED TO COMPLY WITH JAPANESE CONSTRUCTION CODES FOR MOBILE CRANES. CAPACITIES BASED ON STRUCTURAL COMPETENCE ARE DENOTED BY AN ASTERISK (*).

UPPER BOOM POINT CAPACITY FOR LIFTCRANE SERVICE WITH SINGLE PART WHIP LINE IS 13 110 kg OR 26 220 kg WITH TWO PART WHIP LINE. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR MAIN BOOM CAPACITY.

76.2m THRU 88.4m BOOM LENGTHS REQUIRE ONLY THE MIDDLE 3 SHEAVES TO BE USED ON LOWER BOOM POINT. ALL OTHER SHEAVES MUST BE REMOVED FROM LOWER BOOM POINT.

WEIGHT OF JIB, ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, ETC., BENEATH BOOM AND JIB 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. 170423 OR NO. 172611, WIRE ROPE SPECIFICATION CHART NO. 7807-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 LIFTED LOAD AND OTHER CONSIDERATIONS NOTED ON 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 AND LOWERING BOOM AND JIB TO APPROXIMATELY 70 DEGREE BOOM ANGLE WHEN WIND EXCEEDS THOSE SHOWN IN TABLE TO PREVENT JIB BEING BLOWN OVER BACKWARDS. LOWER BOOM AND JIB 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 45 mm BOOM PENDANTS, AND 75 750 kg COUNTERWEIGHT.

WIND LIMITS DURING OPERATION		
MAXIMUM WIND VELOCITY m/s	BOOM LENGTH METERS	JIB LENGTH METERS
14	21.3 - 51.8	---
10	54.9 - 57.9	---
7	61.0 - 88.4	---
14	39.6 - 51.8	12.2 - 24.4
10	54.9 - 57.9	12.2 - 24.4
7	61.0 - 76.2	12.2 - 18.3
7	61.0 - 70.1	24.4
7	39.6 - 70.1	30.5
7	39.6 - 67.1	36.6

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED						DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
OVER FRONT OF BLOCKED CRAWLERS		OVER REAR OF BLOCKED CRAWLERS		OVER SIDE OF CRAWLERS			
BOOM LGTH.	JIB NO. 132	BOOM LGTH.	JIB NO. 132	BOOM LGTH.	JIB NO. 132	JIB LGTH.	JIB NO. 132
(a)88.4m	---	(a)85.3m	---	79.2m	---	12.2m	3 080 kg
85.3m	---	82.3m	---	76.2m	---	18.3m	3 990 kg
82.3m	---	79.2m	---	73.2m	---	24.4m	5 080 kg
79.2m	---	76.2m	12.2m	70.1m	---	30.5m	6 210 kg
76.2m	18.3m	73.2m	12.2m	67.1m	18.3m	36.6m	7 480 kg
73.2m	18.3m	70.1m	24.4m	64.0m	30.5m		
70.1m	30.5m	67.1m	30.5m	61.0m	36.6m		
67.1m	36.6m	64.0m	36.6m				
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START. (a) UPPER BOOM POINT CANNOT BE USED ON 88.4m BOOM AND CANNOT BE LIFTED OVER REAR OF BLOCKED CRAWLERS ON 85.3m BOOM.							

CONSULT JIB CHART FOR JIB CAPACITIES. UPPER BOOM POINT CANNOT BE USED WHEN JIB IS ATTACHED.

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M-250

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32 mm HOIST LINE

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75 750 kg COUNTERWEIGHT

360 DEGREE RATING

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY KILOGRAMS
2 1 · 3	7 0	5.5	82.9	23.5	250 000*
		6.0	81.5	23.4	247 600*
		6.5	80.2	23.3	235 000*
		7.0	78.8	23.2	218 800*
		7.5	77.4	23.1	204 900*
		8.0	76.0	22.9	191 800
		8.5	74.6	22.8	172 100
		9.0	73.2	22.6	155 700
		10.0	70.3	22.2	130 500
		11.0	67.4	21.8	112 100
		12.0	64.4	21.3	98 000
		13.0	61.3	20.7	86 800
		14.0	58.1	20.1	77 800
		15.0	54.8	19.4	70 300
		16.0	51.4	18.5	64 000
		18.0	43.8	16.6	54 100
		20.0	34.8	13.9	46 600
2 4 · 4	8 0	6.1	82.4	26.5	238 500*
		6.5	81.4	26.4	235 000*
		7.0	80.2	26.3	218 400*
		7.5	79.0	26.2	204 400*
		8.0	77.8	26.1	191 400
		8.5	76.6	26.0	172 100
		9.0	75.4	25.8	155 700
		10.0	72.9	25.5	130 400
		11.0	70.4	25.1	112 000
		12.0	67.8	24.7	97 800
		13.0	65.2	24.2	86 500
		14.0	62.6	23.7	77 500
		15.0	59.8	23.1	70 000
		16.0	57.0	22.4	63 700
		18.0	51.1	20.8	53 700
		20.0	44.5	18.9	46 200
		22.0	37.0	16.4	40 400
		24.0	27.6	13.0	35 700
2 7 · 4	9 0	6.4	82.6	29.5	226 000*
		6.5	82.4	29.5	225 500*
		7.0	81.3	29.4	218 000*
		7.5	80.3	29.3	204 100*
		8.0	79.2	29.2	191 100
		8.5	78.1	29.1	172 100
		9.0	77.0	29.0	155 700
		10.0	74.9	28.7	130 400
		11.0	72.7	28.4	111 900
		12.0	70.4	28.0	97 700
		13.0	68.2	27.6	86 400
		14.0	65.9	27.1	77 400
		15.0	63.5	26.6	69 900
		16.0	61.1	26.0	63 500
		18.0	56.1	24.7	53 500
		20.0	50.8	23.1	46 000
		22.0	45.0	21.2	40 100
		24.0	38.5	18.8	35 400
3 0 · 5	1 0 0	6.7	82.8	32.6	217 200*
		7.0	82.2	32.5	215 900*
		7.5	81.2	32.4	203 900*
		8.0	80.3	32.3	190 800
		8.5	79.3	32.2	172 300
		9.0	78.4	32.1	155 700
		10.0	76.4	31.9	130 400
		11.0	74.5	31.6	111 800
		12.0	72.5	31.2	97 500
		13.0	70.5	30.9	86 300
		14.0	68.5	30.5	77 200
		15.0	66.4	30.0	69 600
		16.0	64.3	29.5	63 300
		18.0	60.0	28.4	53 300
		20.0	55.4	27.0	45 700
		22.0	50.6	25.4	39 800
		24.0	45.4	23.5	35 000
		26.0	39.7	21.2	31 200
		28.0	33.1	18.3	28 000

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY KILOGRAMS
3 3 · 5	1 1 0	7.0	82.9	35.6	169 600*
		7.5	82.0	35.5	167 700*
		8.0	81.2	35.4	166 000*
		8.5	80.3	35.3	164 300*
		9.0	79.4	35.2	156 700
		10.0	77.7	35.0	130 500
		11.0	75.9	34.7	111 900
		12.0	74.1	34.4	97 600
		13.0	72.3	34.1	86 400
		14.0	70.5	33.8	77 300
		15.0	68.7	33.3	69 700
		16.0	66.8	32.9	63 400
		18.0	63.0	31.9	53 300
		20.0	59.0	30.7	45 700
		22.0	54.9	29.3	39 800
		24.0	50.5	27.7	35 000
		26.0	45.8	25.8	31 100
		28.0	40.6	23.6	27 800
		30.0	34.9	20.9	25 100
		32.0	28.0	17.4	22 800
3 6 · 6	1 2 0	7.3	83.0	38.6	164 700*
		7.5	82.7	38.6	164 100*
		8.0	81.9	38.5	162 400*
		8.5	81.1	38.4	160 800*
		9.0	80.3	38.3	156 400
		10.0	78.7	38.1	130 300
		11.0	77.1	37.9	111 700
		12.0	75.5	37.6	97 400
		13.0	73.9	37.3	86 100
		14.0	72.2	37.0	77 000
		15.0	70.5	36.6	69 400
		16.0	68.9	36.2	63 000
		18.0	65.4	35.3	52 900
		20.0	61.9	34.3	45 300
		22.0	58.2	33.1	39 300
		24.0	54.4	31.7	34 600
		26.0	50.4	30.0	30 600
		28.0	46.1	28.2	27 400
3 9 · 6	1 3 0	30.0	41.4	26.0	24 600
		32.0	36.3	23.4	22 300
		34.0	30.3	20.1	20 300
		7.9	82.7	41.6	158 800*
		8.0	82.6	41.6	158 600*
		8.5	81.8	41.5	157 100*
		9.0	81.1	41.4	154 200
		10.0	79.6	41.3	130 300
		11.0	78.1	41.0	111 600
		12.0	76.6	40.8	97 300
		13.0	75.1	40.5	86 000
		14.0	73.6	40.2	76 900
		15.0	72.1	39.9	69 300
		16.0	70.6	39.5	63 000
		18.0	67.4	38.7	52 900
		20.0	64.2	37.7	45 300
		22.0	60.9	36.6	39 300
		24.0	57.5	35.4	34 500
		26.0	54.0	34.0	30 500
		28.0	50.3	32.3	27 200
		30.0	46.3	30.5	24 500
		32.0	42.0	28.3	22 100
		34.0	37.4	25.8	20 100
		36.0	32.2	22.8	18 400
		38.0	25.9	19.0	16 800

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4 2 · 7	1 4 0	8.2	82.8	44.7	154 800*
		8.5	82.4	44.6	154 000*
		9.0	81.7	44.5	152 300
		10.0	80.4	44.4	130 100
		11.0	79.0	44.2	111 500
		12.0	77.6	43.9	97 100
		13.0	76.2	43.7	85 800
		14.0	74.8	43.4	76 600
		15.0	73.4	43.1	69 000
		16.0	72.0	42.8	62 600
		18.0	69.1	42.0	52 500
		20.0	66.2	41.1	44 900
		22.0	63.2	40.1	38 900
		24.0	60.1	39.0	34 100
		26.0	56.9	37.7	30 100
		28.0	53.6	36.3	26 800
		30.0	50.2	34.6	24 000
		32.0	46.5	32.8	21 600
		34.0	42.6	30.7	19 600
		36.0	38.3	28.2	17 800
4 5 · 7	1 5 0	8.5	82.9	47.7	136 900*
		9.0	82.3	47.6	135 500*
		10.0	81.0	47.5	130 200
		11.0	79.7	47.3	111 300
		12.0	78.5	47.1	96 900
		13.0	77.2	46.8	85 600
		14.0	75.9	46.6	76 400
		15.0	74.6	46.3	68 800
		16.0	73.3	46.0	62 400
		18.0	70.6	45.3	52 300
		20.0	67.9	44.5	44 700
		22.0	65.2	43.6	38 600
		24.0	62.3	42.5	33 800
		26.0	59.4	41.4	29 900
		28.0	56.4	40.0	26 600
		30.0	53.3	38.6	23 800
		32.0	50.1	36.9	21 400
		34.0	46.7	35.1	19 300
		36.0	43.0	33.0	17 500
4 8 · 8	1 6 0	8.8	83.0	50.7	132 200*
		9.0	82.8	50.7	131 800*
		10.0	81.6	50.6	127 700
		11.0	80.4	50.4	111 300
		12.0	79.2	50.2	96 900
		13.0	78.0	50.0	85 600
		14.0	76.8	49.7	76 300
		15.0	75.6	49.4	68 700
		16.0	74.3	49.2	62 300
		18.0	71.9	48.5	52 100
		20.0	69.4	47.8	44 500
		22.0	66.8	46.9	38 500
		24.0	64.2	46.0	33 600
		26.0	61.5	44.9	29 600
		28.0	58.8	43.7	26 300
		30.0	56.0	42.4	23 500
		32.0	53.1	40.9	21 100
		34.0	50.0	39.2	19 000
		36.0	46.8	37.4	17 200

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY KILOGRAMS
5 1 · 8	1 7 0	9.1	83.0	53.8	128 500*
		10.0	82.1	53.6	125 600
		11.0	81.0	53.5	111 000
		12.0	79.8	53.3	96 600
		13.0	78.7	53.1	85 300
		14.0	77.6	52.9	76 100
		15.0	76.4	52.6	68 500
		16.0	75.3	52.3	62 100
		18.0	73.0	51.7	51 900
		20.0	70.6	51.0	44 300
		22.0	68.3	50.2	38 200
		24.0	65.8	49.4	33 400
		26.0	63.4	48.4	29 400
		28.0	60.8	47.3	26 100
		30.0	58.3	46.0	23 300
		32.0	55.6	44.7	20 900
		34.0	52.8	43.2	18 800
5 4 · 9	1 8 0	9.8	82.8	56.8	124 200*
		10.0	82.5	56.7	123 400
		11.0	81.5	56.6	110 900
		12.0	80.4	56.4	96 400
		13.0	79.3	56.2	85 000
		14.0	78.3	56.0	75 800
		15.0	77.2	55.7	68 200
		16.0	76.1	55.5	61 700
		18.0	74.0	54.9	51 600
		20.0	71.8	54.3	43 900
		22.0	69.5	53.5	37 800
		24.0	67.3	52.7	33 000
		26.0	65.0	51.8	29 000
		28.0	62.6	50.7	25 700
		30.0	60.2	49.6	22 800
		32.0	57.8	48.4	20 400
5 7 · 9	1 9 0	10.4	82.6	59.7	109 100*
		11.0	81.9	59.7	107 800
		12.0	80.9	59.5	96 700
		13.0	79.9	59.3	84 900
		14.0	78.9	59.1	75 700
		15.0	77.9	58.9	68 000
		16.0	76.9	58.6	61 600
		18.0	74.8	58.1	51 400
		20.0	72.8	57.5	43 700
		22.0	70.7	56.8	37 700
		24.0	68.5	56.0	32 800
		26.0	66.4	55.1	28 800
		28.0	64.2	54.2	25 500
		30.0	61.9	53.1	22 700
		32.0	59.7	52.0	20 200
6 1 · 0	2 0 0	10.4	82.9	62.8	105 500*
		11.0	82.3	62.7	104 400
		12.0	81.4	62.6	97 100
		13.0	80.4	62.4	84 900
		14.0	79.5	62.2	75 700
		15.0	78.5	62.0	68 000
		16.0	77.5	61.8	61 500
		18.0	75.6	61.3	51 300
		20.0	73.6	60.7	43 600
		22.0	71.7	60.0	37 500
		24.0	69.7	59.3	32 700
		26.0	67.6	58.5	28 700
		28.0	65.6	57.6	25 300
		30.0	63.5	56.6	22 500
		32.0	61.3	55.5	20 000

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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	101 800*		
		12.0	81.8	65.7	96 700		
		13.0	80.9	65.5	84 600		
		14.0	80.0	65.3	75 400		
		15.0	79.1	65.1	67 700		
		16.0	78.1	64.9	61 300		
		18.0	76.3	64.4	51 100		
		20.0	74.4	63.9	43 300		
		22.0	72.6	63.2	37 300		
		24.0	70.7	62.5	32 400		
		26.0	68.8	61.8	28 400		
		28.0	66.8	60.9	25 000		
		30.0	64.8	60.0	22 200		
		32.0	62.8	59.0	19 800		
		6 7 1	2 2 0	11.6	82.5	68.8	98 200*
				12.0	82.2	68.7	95 000
13.0	81.3			68.6	84 400		
14.0	80.4			68.4	75 100		
15.0	79.6			68.2	67 400		
16.0	78.7			68.0	61 000		
18.0	76.9			67.6	50 700		
20.0	75.2			67.0	43 000		
22.0	73.4			66.4	36 900		
24.0	71.6			65.8	32 000		
		26.0	69.8	65.1	28 000		
		28.0	67.9	64.2	24 700		
		30.0	66.1	63.4	21 800		
		7 0 1	2 3 0	11.6	82.9	71.9	87 200*
12.0	82.5			71.8	86 700*		
13.0	81.7			71.7	84 500		
14.0	80.9			71.5	75 100		
15.0	80.0			71.3	67 400		
16.0	79.2			71.1	60 900		
18.0	77.5			70.7	50 700		
20.0	75.8			70.2	42 900		
22.0	74.1			69.6	36 800		
24.0	72.4			69.0	31 900		
		26.0	70.7	68.3	27 900		
		28.0	68.9	67.5	24 500		
		30.0	67.2	66.7	21 700		
		7 3 2	2 4 0	12.2	82.7	74.9	83 800*
13.0	82.0			74.8	82 500		
14.0	81.2			74.6	74 900		
15.0	80.4			74.4	67 100		
16.0	79.6			74.2	60 700		
18.0	78.0			73.8	50 400		
20.0	76.4			73.3	42 600		
22.0	74.8			72.8	36 500		
24.0	73.2			72.2	31 600		
26.0	71.5			71.5	27 500		
		28.0	69.9	70.8	24 200		
		30.0	68.2	70.0	21 300		
		7 6 2	2 5 0	12.2	83.0	78.0	80 800*
				13.0	82.4	77.8	79 100*
14.0	81.6			77.7	75 300		
15.0	80.8			77.5	67 600		
16.0	80.1			77.3	61 200		
18.0	78.5			76.9	50 900		
20.0	77.0			76.5	43 100		
22.0	75.4			76.0	37 000		
24.0	73.9			75.4	32 100		
26.0	72.3			74.8	28 100		
		28.0	70.7	74.1	24 700		
		30.0	69.1	73.3	21 900		

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY KILOGRAMS
7 9 2	2 6 0	12.8	82.8	81.0	74 000*
		13.0	82.7	80.9	73 500*
		14.0	81.9	80.8	71 300*
		15.0	81.2	80.6	67 700
		16.0	80.5	80.4	61 000
		18.0	79.0	80.1	50 600
		20.0	77.5	79.6	42 800
		22.0	76.0	79.1	36 700
		24.0	74.5	78.6	31 800
		26.0	73.0	78.0	27 800
8 2 3	2 7 0	28.0	71.5	77.3	24 400
		30.0	69.9	76.6	21 500
		13.4	82.6	83.9	66 500*
		14.0	82.2	83.9	65 400*
		15.0	81.5	83.7	63 400*
		16.0	80.8	83.5	60 400
		18.0	79.4	83.2	50 800
		20.0	78.0	82.7	42 800
		22.0	76.5	82.3	36 700
		24.0	75.1	81.7	31 800
8 5 3	2 8 0	26.0	73.7	81.2	27 700
		28.0	72.2	80.5	24 300
		30.0	70.7	79.8	21 400
		13.4	82.9	87.0	63 700*
		14.0	82.5	86.9	63 300*
		15.0	81.8	86.8	62 700*
		16.0	81.1	86.6	60 500
		18.0	79.8	86.3	51 100
		20.0	78.4	85.9	43 000
		22.0	77.0	85.4	36 800
8 8 4	2 9 0	24.0	75.6	84.9	31 900
		26.0	74.3	84.3	27 800
		28.0	72.8	83.7	24 400
		30.0	71.4	83.1	21 500
		14.0	82.7	90.0	59 600*
		15.0	82.1	89.9	58 800*
		16.0	81.5	89.7	57 700
		18.0	80.1	89.4	51 000
		20.0	78.8	89.0	42 700
		22.0	77.5	88.5	36 500
		24.0	76.2	88.0	31 600
		26.0	74.8	87.5	27 500
		28.0	73.5	86.9	24 100