

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES WITH JIB NO. 75 ATTACHED

M-1200

**BOOM NO. 72 OR NO. 72A WITH 1300 METRIC TON BOOM POINT
MAST NO. 75 OR NO. 75A
25.1m JIB STRUT
JIB AT 20 DEGREE OFFSET
18.3m RINGER ATTACHMENT ON SCREW JACK PEDESTALS
23 590 kg CRANE COUNTERWEIGHT
795 420 kg AUXILIARY 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 6 PART LINE IS 81 650 kg. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR MAIN BOOM CAPACITY. UPPER BOOM POINT MINIMUM OPERATING RADII WILL BE RESTRICTED WITH BOOM AT MAXIMUM ANGLE.

WEIGHT OF ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM POINT SHEAVES, IS CONSIDERED PART OF MAIN BOOM LOAD. WEIGHT OF JIB AND 45 360 kg JIB LOAD (WEIGHT OF ALL LOAD BLOCKS, HOOKS, WEIGHT BALLS, SLINGS, HOIST LINES, ETC. BENEATH JIB POINT SHEAVES) AND 6 120 kg UPPER BOOM POINT LOAD (WEIGHT OF ALL LOAD BLOCKS, HOOKS, WEIGHT BALLS, SLINGS, HOIST LINES, ETC. BENEATH UPPER BOOM POINT SHEAVES) HAVE BEEN INCLUDED IN CAPACITY DETERMINATION. DO NOT USE THIS CHART IF JIB LOAD EXCEEDS 45 360 kg OR UPPER BOOM POINT LOAD EXCEEDS 6 120 kg. IF JIB LOAD IS LESS THAN 45 360 kg, OR UPPER BOOM POINT LOAD IS LESS THAN 6 120 kg, THE DIFFERENCE CAN BE ADDED TO BOOM CAPACITY. BOOM IS NOT TO BE LOWERED BEYOND RADII WHERE COMBINED WEIGHTS BENEATH BOOM POINT SHEAVES 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 ROLLER PATH LEVEL WITHIN A TOLERANCE OF 32 mm IN 18.3m AND PROPERLY SUPPORTED. DURING OPERATION, JIB MUST BE AT PROPER OFFSET ANGLE SHOWN. REFER TO BOOM RIGGING NO. 173399, NO. 175673 OR NO. 175955, JIB ASSEMBLY NO. 173400 OR NO. 176116 AND WIRE ROPE SPECIFICATION CHART NO. 7683-E. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR DYNAMIC LOAD EFFECTS OF SWINGING, HOISTING OR LOWERING, WIND CONDITIONS, AS WELL AS ADVERSE OPERATING CONDITIONS AND PHYSICAL MACHINE DEPRECIATION.

MACHINE MAY BE OPERATED IN WINDS UP TO 16 m/s 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 75 DEGREE BOOM ANGLE WHEN WIND EXCEEDS 16 m/s. LOWER BOOM AND JIB TO GROUND WHEN WIND IS ABOVE 22 m/s.

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 18.3m RINGER ATTACHMENT, 9 373 mm CRAWLERS, 1 229 mm TREADS, 8 534 mm RETRACTABLE GANTRY, 45.7m NO. 75 MAST WITH 32 PART BOOM HOIST REEVING OR NO. 75A MAST WITH 36 PART BOOM HOIST REEVING, STRAP BOOM PENDANTS, STRAP JIB PENDANTS AND BACKSTAYS, 23 590 kg CRANE COUNTERWEIGHT, AND 795 420 kg AUXILIARY COUNTERWEIGHT.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED	
BOOM LGTH.	JIB NO. 75
77.1m	---
77.1m	38.1m
69.5m	53.3m
61.9m	68.6m
LOAD BLOCKS ON GROUND AT START.	

UPPER BOOM POINT CANNOT BE USED ON BOOM NO. 72.

WARNING: CHECK AMOUNT OF AUXILIARY COUNTERWEIGHT ON MACHINE BEFORE USE OF THIS CHART.

CONSULT CHART NO. 7713-BM FOR JIB CAPACITIES.

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 25.1m JIB STRUT
 30.5m JIB AT 20 DEGREE OFFSET
 18.3m RINGER ATTACHMENT ON SCREW JACK PEDESTALS
 23 590 kg CRANE COUNTERWEIGHT
 795 420 kg AUXILIARY COUNTERWEIGHT
 360 DEGREE RATING

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY KILOGRAMS
6 1 · 9	2 0 3	19.8	81.4	64.4	800 000*
		20.0	81.2	64.3	797 600*
		22.0	79.3	63.9	745 300
		24.0	77.4	63.4	614 500
		26.0	75.5	62.9	523 800
		28.0	73.6	62.3	451 200
		30.0	71.6	61.6	392 000
		32.0	69.6	60.8	342 900
		34.0	67.6	59.9	301 300
		36.0	65.6	59.0	265 800
		38.0	63.5	58.0	235 100
		40.0	61.4	56.8	208 200
		42.0	59.2	55.6	184 500
		44.0	57.0	54.3	163 400
		46.0	54.7	52.8	144 600
		48.0	52.3	51.2	127 600
		50.0	49.9	49.5	112 300
		52.0	47.3	47.6	98 400
		54.0	44.7	45.5	85 700
		56.0	41.9	43.3	74 000
58.0	38.9	40.7	63 300		
60.0	35.7	37.9	52 700		
6 9 · 5	2 2 8	21.3	81.1	71.8	781 200
		22.0	80.5	71.7	736 800
		24.0	78.8	71.3	615 600
		26.0	77.1	70.8	524 600
		28.0	75.4	70.2	451 700
		30.0	73.7	69.6	392 400
		32.0	72.0	68.9	343 100
		34.0	70.2	68.2	301 400
		36.0	68.4	67.4	265 700
		38.0	66.6	66.5	234 900
		40.0	64.8	65.5	207 900
		42.0	62.9	64.4	184 100
		44.0	61.0	63.3	163 000
		46.0	59.1	62.1	144 100
		48.0	57.1	60.7	127 100
		50.0	55.1	59.3	111 700
		52.0	53.0	57.8	97 700
		54.0	50.9	56.1	84 900
		56.0	48.6	54.3	73 200
		58.0	46.3	52.4	62 500
60.0	43.9	50.3	52 500		

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY KILOGRAMS
7 7 · 1	2 5 3	21.3	82.0	79.6	781 500
		22.0	81.5	79.5	737 000
		24.0	80.0	79.1	615 600
		26.0	78.4	78.6	524 300
		28.0	76.9	78.1	451 200
		30.0	75.4	77.6	391 800
		32.0	73.8	77.0	342 400
		34.0	72.3	76.3	300 600
		36.0	70.7	75.6	264 800
		38.0	69.1	74.8	233 900
		40.0	67.5	73.9	206 800
		42.0	65.8	73.0	183 000
		44.0	64.2	72.0	161 800
		46.0	62.5	70.9	142 800
		48.0	60.8	69.8	125 800
		50.0	59.0	68.6	110 300
52.0	57.2	67.2	96 300		
54.0	55.4	65.8	83 500		
56.0	53.6	64.3	71 800		
58.0	51.6	62.7	61 000		
60.0	49.7	61.0	51 000		

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 38.1m JIB AT 20 DEGREE OFFSET
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 23 590 kg CRANE COUNTERWEIGHT
 795 420 kg AUXILIARY COUNTERWEIGHT
 360 DEGREE RATING

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY KILOGRAMS
6 1 · 9	2 0 3	19.8	81.4	64.4	800 000*
		20.0	81.2	64.3	794 500*
		22.0	79.3	63.9	717 900
		24.0	77.4	63.4	591 800
		26.0	75.5	62.9	502 200
		28.0	73.6	62.3	430 400
		30.0	71.6	61.6	372 000
		32.0	69.6	60.8	323 600
		34.0	67.6	59.9	282 500
		36.0	65.6	59.0	247 500
		38.0	63.5	58.0	217 200
		40.0	61.4	56.8	190 600
		42.0	59.2	55.6	167 300
		44.0	57.0	54.3	146 500
		46.0	54.7	52.8	128 000
		48.0	52.3	51.2	111 300
		50.0	49.9	49.5	96 200
		52.0	47.3	47.6	82 500
		54.0	44.7	45.5	70 000
		56.0	41.9	43.3	58 600
6 9 · 5	2 2 8	21.3	81.1	71.8	757 300
		22.0	80.5	71.7	713 400
		24.0	78.8	71.3	593 800
		26.0	77.1	70.8	503 800
		28.0	75.4	70.2	431 900
		30.0	73.7	69.6	373 200
		32.0	72.0	68.9	324 600
		34.0	70.2	68.2	283 500
		36.0	68.4	67.4	248 200
		38.0	66.6	66.5	217 800
		40.0	64.8	65.5	191 200
		42.0	62.9	64.4	167 700
		44.0	61.0	63.3	146 900
		46.0	59.1	62.1	128 200
		48.0	57.1	60.7	111 500
		50.0	55.1	59.3	96 300
52.0	53.0	57.8	82 600		
54.0	50.9	56.1	69 900		
56.0	48.6	54.3	58 400		

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY KILOGRAMS
7 7 · 1	2 5 3	21.3	82.0	79.6	758 300
		22.0	81.5	79.5	714 300
		24.0	80.0	79.1	594 300
		26.0	78.4	78.6	504 100
		28.0	76.9	78.1	432 100
		30.0	75.4	77.6	373 300
		32.0	73.8	77.0	324 500
		34.0	72.3	76.3	283 200
		36.0	70.7	75.6	247 900
		38.0	69.1	74.8	217 400
		40.0	67.5	73.9	190 700
		42.0	65.8	73.0	167 200
		44.0	64.2	72.0	146 300
		46.0	62.5	70.9	127 600
		48.0	60.8	69.8	110 800
		50.0	59.0	68.6	95 500
52.0	57.2	67.2	81 700		
54.0	55.4	65.8	69 100		
56.0	53.6	64.3	57 600		

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 45.7m JIB AT 20 DEGREE OFFSET
 18.3m RINGER ATTACHMENT ON SCREW JACK PEDESTALS
 23 590 kg CRANE COUNTERWEIGHT
 795 420 kg AUXILIARY COUNTERWEIGHT
 360 DEGREE RATING

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY KILOGRAMS
6 1 · 9	2 0 3	19.8	81.4	64.4	800 000*
		20.0	81.2	64.3	791 200*
		22.0	79.3	63.9	688 100
		24.0	77.4	63.4	567 200
		26.0	75.5	62.9	478 800
		28.0	73.6	62.3	408 100
		30.0	71.6	61.6	350 600
		32.0	69.6	60.8	302 800
		34.0	67.6	59.9	262 400
		36.0	65.6	59.0	227 900
		38.0	63.5	58.0	198 000
		40.0	61.4	56.8	171 900
		42.0	59.2	55.6	148 900
		44.0	57.0	54.3	128 500
		46.0	54.7	52.8	110 300
		48.0	52.3	51.2	93 900
		50.0	49.9	49.5	79 100
52.0	47.3	47.6	65 700		
54.0	44.7	45.5	53 400		
6 9 · 5	2 2 8	21.3	81.1	71.8	731 400
		22.0	80.5	71.7	688 100
		24.0	78.8	71.3	570 100
		26.0	77.1	70.8	481 400
		28.0	75.4	70.2	410 500
		30.0	73.7	69.6	352 700
		32.0	72.0	68.9	304 800
		34.0	70.2	68.2	264 200
		36.0	68.4	67.4	229 500
		38.0	66.6	66.5	199 500
		40.0	64.8	65.5	173 300
		42.0	62.9	64.4	150 200
		44.0	61.0	63.3	129 700
		46.0	59.1	62.1	111 300
		48.0	57.1	60.7	94 800
		50.0	55.1	59.3	79 900
		52.0	53.0	57.8	66 300
54.0	50.9	56.1	54 000		

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 23 590 kg CRANE COUNTERWEIGHT
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 360 DEGREE RATING

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY KILOGRAMS
6 1 · 9	2 0 3	19.8	81.4	64.4	800 000*
		20.0	81.2	64.3	788 100*
		22.0	79.3	63.9	660 500
		24.0	77.4	63.4	544 400
		26.0	75.5	62.9	457 100
		28.0	73.6	62.3	387 400
		30.0	71.6	61.6	330 600
		32.0	69.6	60.8	283 400
		34.0	67.6	59.9	243 600
		36.0	65.6	59.0	209 500
		38.0	63.5	58.0	180 100
		40.0	61.4	56.8	154 400
		42.0	59.2	55.6	131 700
		44.0	57.0	54.3	111 600
		46.0	54.7	52.8	93 700
		48.0	52.3	51.2	77 600
		50.0	49.9	49.5	63 000
		6 9 · 5	2 2 8	21.3	81.1
22.0	80.5			71.7	664 700
24.0	78.8			71.3	548 200
26.0	77.1			70.8	460 600
28.0	75.4			70.2	390 600
30.0	73.7			69.6	333 600
32.0	72.0			68.9	286 300
34.0	70.2			68.2	246 300
36.0	68.4			67.4	212 000
38.0	66.6			66.5	182 500
40.0	64.8			65.5	156 600
42.0	62.9			64.4	133 800
44.0	61.0			63.3	113 600
46.0	59.1			62.1	95 600
48.0	57.1			60.7	79 300
50.0	55.1			59.3	64 700

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6 1 · 9	2 0 3	19.8	81.4	64.4	795 200
		20.0	81.2	64.3	780 200
		22.0	79.3	63.9	628 500
		24.0	77.4	63.4	517 400
		26.0	75.5	62.9	431 600
		28.0	73.6	62.3	363 000
		30.0	71.6	61.6	307 100
		32.0	69.6	60.8	260 800
		34.0	67.6	59.9	221 700
		36.0	65.6	59.0	188 200
		38.0	63.5	58.0	159 300
		40.0	61.4	56.8	134 000
		42.0	59.2	55.6	111 800
		44.0	57.0	54.3	92 100
		46.0	54.7	52.8	74 500
48.0	52.3	51.2	58 700		

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68.6m JIB AT 20 DEGREE OFFSET
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BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY KILOGRAMS
6 1 · 9	2 0 3	19.8	81.4	64.4	762 800
		20.0	81.2	64.3	748 100
		22.0	79.3	63.9	599 000
		24.0	77.4	63.4	489 900
		26.0	75.5	62.9	405 600
		28.0	73.6	62.3	338 300
		30.0	71.6	61.6	283 500
		32.0	69.6	60.8	238 000
		34.0	67.6	59.9	199 600
		36.0	65.6	59.0	166 800
		38.0	63.5	58.0	138 400
		40.0	61.4	56.8	113 700
		42.0	59.2	55.6	91 900
		44.0	57.0	54.3	70 700*
		46.0	54.7	52.8	55 600*