

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
25.1m JIB STRUT
JIB AT 8 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 (*).

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) HAVE BEEN INCLUDED IN CAPACITY DETERMINATION. DO NOT USE THIS CHART IF JIB LOAD EXCEEDS 45 360 kg. IF JIB LOAD IS LESS THAN 45 360 kg, THE DIFFERENCE CAN BE ADDED TO BOOM CAPACITY. MINIMIZE JIB POINT TO JIB LOAD BLOCK DISTANCE DURING OPERATION. 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, JIB ASSEMBLY NO. 173400 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 13 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 13 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, 32 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	53.3m
69.5m	68.6m
61.9m	76.2m
LOAD BLOCKS ON GROUND AT START.	

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

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 25.1m JIB STRUT
 30.5m JIB AT 8 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	943 800
		20.0	81.2	64.3	927 500
		22.0	79.3	63.9	762 400
		24.0	77.4	63.4	641 500
		26.0	75.5	62.9	548 100
		28.0	73.6	62.3	473 300
		30.0	71.6	61.6	412 300
		32.0	69.6	60.8	361 700
		34.0	67.6	59.9	318 900
		36.0	65.6	59.0	282 200
		38.0	63.5	58.0	250 500
		40.0	61.4	56.8	222 700
		42.0	59.2	55.6	198 200
		44.0	57.0	54.3	176 400
		46.0	54.7	52.8	157 000
		48.0	52.3	51.2	139 400
		50.0	49.9	49.5	123 500
		52.0	47.3	47.6	109 100
		54.0	44.7	45.5	95 800
		56.0	41.9	43.3	83 700
58.0	38.9	40.7	72 500		
60.0	35.7	37.9	62 000		
6 9 · 5	2 2 8	21.3	81.1	71.8	813 300
		22.0	80.5	71.7	767 600
		24.0	78.8	71.3	642 900
		26.0	77.1	70.8	549 200
		28.0	75.4	70.2	474 200
		30.0	73.7	69.6	413 100
		32.0	72.0	68.9	362 400
		34.0	70.2	68.2	319 400
		36.0	68.4	67.4	282 600
		38.0	66.6	66.5	250 800
		40.0	64.8	65.5	223 000
		42.0	62.9	64.4	198 400
		44.0	61.0	63.3	176 600
		46.0	59.1	62.1	157 100
		48.0	57.1	60.7	139 500
		50.0	55.1	59.3	123 600
		52.0	53.0	57.8	109 100
		54.0	50.9	56.1	95 900
		56.0	48.6	54.3	83 700
		58.0	46.3	52.4	72 500
60.0	43.9	50.3	62 200		
62.0	41.4	48.0	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	813 700
		22.0	81.5	79.5	767 900
		24.0	80.0	79.1	643 000
		26.0	78.4	78.6	549 100
		28.0	76.9	78.1	473 900
		30.0	75.4	77.6	412 700
		32.0	73.8	77.0	361 900
		34.0	72.3	76.3	318 800
		36.0	70.7	75.6	282 000
		38.0	69.1	74.8	250 100
		40.0	67.5	73.9	222 300
		42.0	65.8	73.0	197 700
		44.0	64.2	72.0	175 800
		46.0	62.5	70.9	156 200
		48.0	60.8	69.8	138 700
		50.0	59.0	68.6	122 700
		52.0	57.2	67.2	108 200
		54.0	55.4	65.8	94 900
		56.0	53.6	64.3	82 800
		58.0	51.6	62.7	71 600
60.0	49.7	61.0	61 200		
62.0	47.7	59.1	51 700		

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 38.1m JIB AT 8 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	927 800
		20.0	81.2	64.3	911 500
		22.0	79.3	63.9	746 800
		24.0	77.4	63.4	626 100
		26.0	75.5	62.9	532 800
		28.0	73.6	62.3	458 200
		30.0	71.6	61.6	397 400
		32.0	69.6	60.8	346 900
		34.0	67.6	59.9	304 100
		36.0	65.6	59.0	267 500
		38.0	63.5	58.0	235 900
		40.0	61.4	56.8	208 200
		42.0	59.2	55.6	183 700
		44.0	57.0	54.3	162 000
		46.0	54.7	52.8	142 600
		48.0	52.3	51.2	125 100
		50.0	49.9	49.5	109 200
		52.0	47.3	47.6	94 800
		54.0	44.7	45.5	81 600
		56.0	41.9	43.3	69 400
58.0	38.9	40.7	58 300		
6 9 5	2 2 8	21.3	81.1	71.8	798 500
		22.0	80.5	71.7	752 900
		24.0	78.8	71.3	628 500
		26.0	77.1	70.8	534 900
		28.0	75.4	70.2	460 100
		30.0	73.7	69.6	399 100
		32.0	72.0	68.9	348 500
		34.0	70.2	68.2	305 600
		36.0	68.4	67.4	268 900
		38.0	66.6	66.5	237 100
		40.0	64.8	65.5	209 400
		42.0	62.9	64.4	184 900
		44.0	61.0	63.3	163 100
		46.0	59.1	62.1	143 600
		48.0	57.1	60.7	126 100
		50.0	55.1	59.3	110 200
52.0	53.0	57.8	95 800		
54.0	50.9	56.1	82 600		
56.0	48.6	54.3	70 400		
58.0	46.3	52.4	59 300		

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	799 700
		22.0	81.5	79.5	754 000
		24.0	80.0	79.1	629 300
		26.0	78.4	78.6	535 600
		28.0	76.9	78.1	460 600
		30.0	75.4	77.6	399 500
		32.0	73.8	77.0	348 700
		34.0	72.3	76.3	305 800
		36.0	70.7	75.6	269 000
		38.0	69.1	74.8	237 200
		40.0	67.5	73.9	209 400
		42.0	65.8	73.0	184 800
		44.0	64.2	72.0	163 100
		46.0	62.5	70.9	143 500
		48.0	60.8	69.8	126 000
		50.0	59.0	68.6	110 100
52.0	57.2	67.2	95 600		
54.0	55.4	65.8	82 400		
56.0	53.6	64.3	70 300		
58.0	51.6	62.7	59 100		

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 23 590 kg CRANE COUNTERWEIGHT
 795 420 kg AUXILIARY COUNTERWEIGHT
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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	910 600
		20.0	81.2	64.3	894 300
		22.0	79.3	63.9	730 200
		24.0	77.4	63.4	609 900
		26.0	75.5	62.9	516 900
		28.0	73.6	62.3	442 500
		30.0	71.6	61.6	381 900
		32.0	69.6	60.8	331 600
		34.0	67.6	59.9	289 000
		36.0	65.6	59.0	252 600
		38.0	63.5	58.0	221 000
		40.0	61.4	56.8	193 400
		42.0	59.2	55.6	169 000
		44.0	57.0	54.3	147 400
		46.0	54.7	52.8	128 100
		48.0	52.3	51.2	110 600
		50.0	49.9	49.5	94 800
		52.0	47.3	47.6	80 500
54.0	44.7	45.5	67 400		
56.0	41.9	43.3	55 300		
6 9 · 5	2 2 8	21.3	81.1	71.8	782 700
		22.0	80.5	71.7	737 200
		24.0	78.8	71.3	613 200
		26.0	77.1	70.8	520 000
		28.0	75.4	70.2	445 400
		30.0	73.7	69.6	384 600
		32.0	72.0	68.9	334 200
		34.0	70.2	68.2	291 500
		36.0	68.4	67.4	254 900
		38.0	66.6	66.5	223 300
		40.0	64.8	65.5	195 600
		42.0	62.9	64.4	171 200
		44.0	61.0	63.3	149 500
		46.0	59.1	62.1	130 100
		48.0	57.1	60.7	112 600
		50.0	55.1	59.3	96 800
		52.0	53.0	57.8	82 400
		54.0	50.9	56.1	69 300
56.0	48.6	54.3	57 200		

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	784 600
		22.0	81.5	79.5	739 000
		24.0	80.0	79.1	614 800
		26.0	78.4	78.6	521 400
		28.0	76.9	78.1	446 700
		30.0	75.4	77.6	385 700
		32.0	73.8	77.0	335 200
		34.0	72.3	76.3	292 400
		36.0	70.7	75.6	255 800
		38.0	69.1	74.8	224 100
		40.0	67.5	73.9	196 300
		42.0	65.8	73.0	171 900
		44.0	64.2	72.0	150 200
		46.0	62.5	70.9	130 700
		48.0	60.8	69.8	113 200
		50.0	59.0	68.6	97 400
		52.0	57.2	67.2	83 000
		54.0	55.4	65.8	69 800
56.0	53.6	64.3	57 800		

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 53.3m JIB AT 8 DEGREE OFFSET
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 23 590 kg CRANE COUNTERWEIGHT
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 360 DEGREE RATING

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6 1 · 9	2 0 3	19.8	81.4	64.4	891 300
		20.0	81.2	64.3	875 100
		22.0	79.3	63.9	711 600
		24.0	77.4	63.4	591 900
		26.0	75.5	62.9	499 300
		28.0	73.6	62.3	425 200
		30.0	71.6	61.6	364 900
		32.0	69.6	60.8	314 800
		34.0	67.6	59.9	272 400
		36.0	65.6	59.0	236 100
		38.0	63.5	58.0	204 700
		40.0	61.4	56.8	177 200
		42.0	59.2	55.6	153 000
		44.0	57.0	54.3	131 500
		46.0	54.7	52.8	112 200
		48.0	52.3	51.2	94 900
		50.0	49.9	49.5	79 200
		52.0	47.3	47.6	64 900
54.0	44.7	45.5	51 800		
6 9 · 5	2 2 8	21.3	81.1	71.8	765 100
		22.0	80.5	71.7	719 800
		24.0	78.8	71.3	596 300
		26.0	77.1	70.8	503 500
		28.0	75.4	70.2	429 200
		30.0	73.7	69.6	368 700
		32.0	72.0	68.9	318 400
		34.0	70.2	68.2	275 900
		36.0	68.4	67.4	239 500
		38.0	66.6	66.5	208 000
		40.0	64.8	65.5	180 500
		42.0	62.9	64.4	156 200
		44.0	61.0	63.3	134 600
		46.0	59.1	62.1	115 300
		48.0	57.1	60.7	97 900
		50.0	55.1	59.3	82 200
		52.0	53.0	57.8	67 900
		54.0	50.9	56.1	54 800

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	767 700
		22.0	81.5	79.5	722 300
		24.0	80.0	79.1	598 600
		26.0	78.4	78.6	505 600
		28.0	76.9	78.1	431 200
		30.0	75.4	77.6	370 600
		32.0	73.8	77.0	320 200
		34.0	72.3	76.3	277 600
		36.0	70.7	75.6	241 200
		38.0	69.1	74.8	209 700
		40.0	67.5	73.9	182 000
		42.0	65.8	73.0	157 700
		44.0	64.2	72.0	136 100
		46.0	62.5	70.9	116 700
		48.0	60.8	69.8	99 300
		50.0	59.0	68.6	83 600
		52.0	57.2	67.2	69 200
		54.0	55.4	65.8	56 100

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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	870 800
		20.0	81.2	64.3	854 800
		22.0	79.3	63.9	692 200
		24.0	77.4	63.4	573 100
		26.0	75.5	62.9	481 000
		28.0	73.6	62.3	407 300
		30.0	71.6	61.6	347 400
		32.0	69.6	60.8	297 600
		34.0	67.6	59.9	255 400
		36.0	65.6	59.0	219 300
		38.0	63.5	58.0	188 100
		40.0	61.4	56.8	160 800
		42.0	59.2	55.6	136 700
		44.0	57.0	54.3	115 300
		46.0	54.7	52.8	96 200
		48.0	52.3	51.2	79 000
50.0	49.9	49.5	63 400		
6 9 · 5	2 2 8	21.3	81.1	71.8	746 500
		22.0	80.5	71.7	701 400
		24.0	78.8	71.3	578 600
		26.0	77.1	70.8	486 300
		28.0	75.4	70.2	412 400
		30.0	73.7	69.6	352 200
		32.0	72.0	68.9	302 300
		34.0	70.2	68.2	260 000
		36.0	68.4	67.4	223 800
		38.0	66.6	66.5	192 500
		40.0	64.8	65.5	165 100
		42.0	62.9	64.4	141 000
		44.0	61.0	63.3	119 500
		46.0	59.1	62.1	100 300
48.0	57.1	60.7	83 000		
50.0	55.1	59.3	67 400		

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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	851 100
		20.0	81.2	64.3	835 000
		22.0	79.3	63.9	672 900
		24.0	77.4	63.4	554 200
		26.0	75.5	62.9	462 400
		28.0	73.6	62.3	389 000
		30.0	71.6	61.6	329 200
		32.0	69.6	60.8	279 600
		34.0	67.6	59.9	237 500
		36.0	65.6	59.0	201 600
		38.0	63.5	58.0	170 500
		40.0	61.4	56.8	143 300
		42.0	59.2	55.6	119 300
		44.0	57.0	54.3	98 000
		46.0	54.7	52.8	79 000
		48.0	52.3	51.2	61 800
6 9 · 5	2 2 8	21.3	81.1	71.8	728 300
		22.0	80.5	71.7	683 400
		24.0	78.8	71.3	561 000
		26.0	77.1	70.8	469 000
		28.0	75.4	70.2	395 300
		30.0	73.7	69.6	335 300
		32.0	72.0	68.9	285 500
		34.0	70.2	68.2	243 400
		36.0	68.4	67.4	207 300
		38.0	66.6	66.5	176 100
		40.0	64.8	65.5	148 800
		42.0	62.9	64.4	124 700
		44.0	61.0	63.3	103 300
		46.0	59.1	62.1	84 200
		48.0	57.1	60.7	67 000
		50.0	55.1	59.3	51 400

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES WITH JIB NO. 75 ATTACHED

M-1200

BOOM NO. 72 OR NO. 72A WITH 1300 METRIC TON BOOM POINT
MAST NO. 75
25.1m JIB STRUT
76.2m JIB AT 8 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	830 600
		20.0	81.2	64.3	814 600
		22.0	79.3	63.9	653 300
		24.0	77.4	63.4	535 100
		26.0	75.5	62.9	443 700
		28.0	73.6	62.3	370 600
		30.0	71.6	61.6	311 100
		32.0	69.6	60.8	261 700
		34.0	67.6	59.9	219 900
		36.0	65.6	59.0	184 100
		38.0	63.5	58.0	153 200
		40.0	61.4	56.8	126 100
		42.0	59.2	55.6	102 200
		44.0	57.0	54.3	81 000
		46.0	54.7	52.8	62 100