

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 8 DEGREE OFFSET
18.3m RINGER ATTACHMENT ON SCREW JACK PEDESTALS
23 590 kg CRANE COUNTERWEIGHT
915 170 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 915 170 kg AUXILIARY COUNTERWEIGHT.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED	
BOOM LGTH.	JIB NO. 75
77.1m	---
77.1m	45.7m
69.5m	61.0m
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-AM FOR JIB CAPACITIES.

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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
915 170 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	800 000*
		22.0	79.3	63.9	757 100*
		24.0	77.4	63.4	636 600
		26.0	75.5	62.9	542 500
		28.0	73.6	62.3	467 600
		30.0	71.6	61.6	406 600
		32.0	69.6	60.8	356 000
		34.0	67.6	59.9	313 100
		36.0	65.6	59.0	276 400
		38.0	63.5	58.0	244 700
		40.0	61.4	56.8	216 900
		42.0	59.2	55.6	192 400
		44.0	57.0	54.3	170 600
		46.0	54.7	52.8	151 100
		48.0	52.3	51.2	133 500
		50.0	49.9	49.5	117 600
		52.0	47.3	47.6	103 100
		54.0	44.7	45.5	89 900
		56.0	41.9	43.3	77 700
6 9 · 5	2 2 8	58.0	38.9	40.7	66 500
		60.0	35.7	37.9	55 600
		21.3	81.1	71.8	800 000*
		22.0	80.5	71.7	800 000*
		24.0	78.8	71.3	735 100
		26.0	77.1	70.8	630 300
		28.0	75.4	70.2	546 400
		30.0	73.7	69.6	478 100
		32.0	72.0	68.9	421 300
		34.0	70.2	68.2	373 300
		36.0	68.4	67.4	332 200
		38.0	66.6	66.5	296 600
		40.0	64.8	65.5	265 500
		42.0	62.9	64.4	238 000
		44.0	61.0	63.3	213 700
		46.0	59.1	62.1	191 800
		48.0	57.1	60.7	172 200
		50.0	55.1	59.3	154 400
		52.0	53.0	57.8	135 900*
		54.0	50.9	56.1	116 300*
		56.0	48.6	54.3	98 000*
		58.0	46.3	52.4	81 000*
		60.0	43.9	50.3	75 400*
		62.0	41.4	48.0	64 700*
		64.0	38.8	45.4	48 100*

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	800 000*
		22.0	81.5	79.5	800 000*
		24.0	80.0	79.1	735 100
		26.0	78.4	78.6	630 100
		28.0	76.9	78.1	546 100
		30.0	75.4	77.6	477 600
		32.0	73.8	77.0	420 800
		34.0	72.3	76.3	372 700
		36.0	70.7	75.6	331 500
		38.0	69.1	74.8	295 900
		40.0	67.5	73.9	264 700
		42.0	65.8	73.0	237 200
		44.0	64.2	72.0	212 800
		46.0	62.5	70.9	190 900
		48.0	60.8	69.8	171 300
		50.0	59.0	68.6	153 500
		52.0	57.2	67.2	137 300
		54.0	55.4	65.8	122 500
		56.0	53.6	64.3	108 900
		58.0	51.6	62.7	91 800*
		60.0	49.7	61.0	78 000*
		62.0	47.7	59.1	66 400*

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38.1m JIB AT 8 DEGREE OFFSET

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23 590 kg CRANE COUNTERWEIGHT

915 170 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	800 000*
		22.0	79.3	63.9	796 300*
		24.0	77.4	63.4	728 600
		26.0	75.5	62.9	614 000
		28.0	73.6	62.3	530 500
		30.0	71.6	61.6	462 400
		32.0	69.6	60.8	405 900
		34.0	67.6	59.9	358 100
		36.0	65.6	59.0	317 100
		38.0	63.5	58.0	281 700
		40.0	61.4	56.8	250 700
		42.0	59.2	55.6	223 400
		44.0	57.0	54.3	185 500*
		46.0	54.7	52.8	177 300*
		48.0	52.3	51.2	149 500*
		50.0	49.9	49.5	125 300*
		52.0	47.3	47.6	103 800*
		54.0	44.7	45.5	99 800*
		56.0	41.9	43.3	78 500*
6 9 · 5	2 2 8	21.3	81.1	71.8	800 000*
		22.0	80.5	71.7	797 400*
		24.0	78.8	71.3	731 200
		26.0	77.1	70.8	616 100
		28.0	75.4	70.2	532 400
		30.0	73.7	69.6	464 100
		32.0	72.0	68.9	407 500
		34.0	70.2	68.2	359 500
		36.0	68.4	67.4	318 500
		38.0	66.6	66.5	283 000
		40.0	64.8	65.5	251 900
		42.0	62.9	64.4	224 500
		44.0	61.0	63.3	200 200
		46.0	59.1	62.1	178 400
		48.0	57.1	60.7	158 800
		50.0	55.1	59.3	141 100
		52.0	53.0	57.8	117 900*
		54.0	50.9	56.1	98 600*
		56.0	48.6	54.3	80 300*
		58.0	46.3	52.4	63 400*
		60.0	43.9	50.3	57 400*

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	800 000*
		22.0	81.5	79.5	797 700*
		24.0	80.0	79.1	732 000
		26.0	78.4	78.6	616 600
		28.0	76.9	78.1	532 700
		30.0	75.4	77.6	464 400
		32.0	73.8	77.0	407 700
		34.0	72.3	76.3	359 600
		36.0	70.7	75.6	318 500
		38.0	69.1	74.8	283 000
		40.0	67.5	73.9	251 900
		42.0	65.8	73.0	224 500
		44.0	64.2	72.0	200 100
		46.0	62.5	70.9	178 300
		48.0	60.8	69.8	158 600
		50.0	59.0	68.6	140 900
		52.0	57.2	67.2	124 700
		54.0	55.4	65.8	110 000
		56.0	53.6	64.3	96 400
		58.0	51.6	62.7	55 000*
		60.0	49.7	61.0	51 400*

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MAST NO. 75 OR NO. 75A
25.1m JIB STRUT
45.7m JIB AT 8 DEGREE OFFSET
18.3m RINGER ATTACHMENT ON SCREW JACK PEDESTALS
23 590 kg CRANE COUNTERWEIGHT
915 170 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	800 000*
		22.0	79.3	63.9	788 700*
		24.0	77.4	63.4	709 800
		26.0	75.5	62.9	597 100
		28.0	73.6	62.3	513 900
		30.0	71.6	61.6	446 100
		32.0	69.6	60.8	389 700
		34.0	67.6	59.9	342 000
		36.0	65.6	59.0	301 200
		38.0	63.5	58.0	265 900
		40.0	61.4	56.8	235 100
		42.0	59.2	55.6	207 800
		44.0	57.0	54.3	165 700*
		46.0	54.7	52.8	156 600*
		48.0	52.3	51.2	128 900*
		50.0	49.9	49.5	104 800*
		52.0	47.3	47.6	83 000*
		54.0	44.7	45.5	73 900*
		56.0	41.9	43.3	58 900*
6 9 · 5	2 2 8	21.3	81.1	71.8	800 000*
		22.0	80.5	71.7	790 300*
		24.0	78.8	71.3	713 500
		26.0	77.1	70.8	600 300
		28.0	75.4	70.2	516 800
		30.0	73.7	69.6	448 800
		32.0	72.0	68.9	392 300
		34.0	70.2	68.2	344 500
		36.0	68.4	67.4	303 600
		38.0	66.6	66.5	268 200
		40.0	64.8	65.5	237 200
		42.0	62.9	64.4	209 900
		44.0	61.0	63.3	185 700
		46.0	59.1	62.1	164 000
		48.0	57.1	60.7	144 400
		50.0	55.1	59.3	126 700
		52.0	53.0	57.8	98 500*
		54.0	50.9	56.1	79 500*
		56.0	48.6	54.3	61 400*

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	800 000*
		22.0	81.5	79.5	790 900*
		24.0	80.0	79.1	715 100
		26.0	78.4	78.6	601 600
		28.0	76.9	78.1	518 000
		30.0	75.4	77.6	449 800
		32.0	73.8	77.0	393 300
		34.0	72.3	76.3	345 400
		36.0	70.7	75.6	304 400
		38.0	69.1	74.8	269 000
		40.0	67.5	73.9	238 000
		42.0	65.8	73.0	210 600
		44.0	64.2	72.0	186 300
		46.0	62.5	70.9	164 600
		48.0	60.8	69.8	145 100
		50.0	59.0	68.6	127 400
		52.0	57.2	67.2	111 200
		54.0	55.4	65.8	96 500
		56.0	53.6	64.3	83 000

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6 1 · 9	2 0 3	19.8	81.4	64.4	800 000*
		20.0	81.2	64.3	800 000*
		22.0	79.3	63.9	781 200*
		24.0	77.4	63.4	691 100
		26.0	75.5	62.9	580 600
		28.0	73.6	62.3	497 600
		30.0	71.6	61.6	430 100
		32.0	69.6	60.8	373 900
		34.0	67.6	59.9	326 500
		36.0	65.6	59.0	285 800
		38.0	63.5	58.0	250 700
		40.0	61.4	56.8	219 900
		42.0	59.2	55.6	192 800
		44.0	57.0	54.3	146 700*
		46.0	54.7	52.8	136 700*
		48.0	52.3	51.2	109 200*
		50.0	49.9	49.5	85 200*
		52.0	47.3	47.6	63 500*
		54.0	44.7	45.5	54 500*
6 9 · 5	2 2 8	21.3	81.1	71.8	800 000*
		22.0	80.5	71.7	783 200*
		24.0	78.8	71.3	696 000
		26.0	77.1	70.8	584 700
		28.0	75.4	70.2	501 600
		30.0	73.7	69.6	433 800
		32.0	72.0	68.9	377 600
		34.0	70.2	68.2	330 000
		36.0	68.4	67.4	289 200
		38.0	66.6	66.5	254 000
		40.0	64.8	65.5	223 100
		42.0	62.9	64.4	196 000
		44.0	61.0	63.3	171 800
		46.0	59.1	62.1	150 200
		48.0	57.1	60.7	130 700
		50.0	55.1	59.3	113 100
		52.0	53.0	57.8	80 100*
		54.0	50.9	56.1	61 500*

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6 1 · 9	2 0 3	19.8	81.4	64.4	800 000*
		20.0	81.2	64.3	800 000*
		22.0	79.3	63.9	772 400*
		24.0	77.4	63.4	669 400
		26.0	75.5	62.9	561 300
		28.0	73.6	62.3	478 800
		30.0	71.6	61.6	411 500
		32.0	69.6	60.8	355 700
		34.0	67.6	59.9	308 400
		36.0	65.6	59.0	268 000
		38.0	63.5	58.0	233 000
		40.0	61.4	56.8	202 500
		42.0	59.2	55.6	175 500
		44.0	57.0	54.3	124 700*
		46.0	54.7	52.8	113 900*
		48.0	52.3	51.2	86 500*
		50.0	49.9	49.5	62 600*
6 9 · 5	2 2 8	21.3	81.1	71.8	800 000*
		22.0	80.5	71.7	774 900*
		24.0	78.8	71.3	675 500
		26.0	77.1	70.8	566 600
		28.0	75.4	70.2	483 800
		30.0	73.7	69.6	416 400
		32.0	72.0	68.9	360 400
		34.0	70.2	68.2	313 100
		36.0	68.4	67.4	272 500
		38.0	66.6	66.5	237 400
		40.0	64.8	65.5	206 800
		42.0	62.9	64.4	179 700
		44.0	61.0	63.3	155 700
		46.0	59.1	62.1	134 200
		48.0	57.1	60.7	114 900
		50.0	55.1	59.3	97 300
		52.0	53.0	57.8	58 900*

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6 1 · 9	2 0 3	19.8	81.4	64.4	800 000*
		20.0	81.2	64.3	800 000*
		22.0	79.3	63.9	764 600*
		24.0	77.4	63.4	649 900
		26.0	75.5	62.9	543 900
		28.0	73.6	62.3	461 500
		30.0	71.6	61.6	394 500
		32.0	69.6	60.8	338 800
		34.0	67.6	59.9	291 700
		36.0	65.6	59.0	251 400
		38.0	63.5	58.0	216 600
		40.0	61.4	56.8	186 100
		42.0	59.2	55.6	159 200
		44.0	57.0	54.3	104 000*
		46.0	54.7	52.8	92 300*
		48.0	52.3	51.2	64 900*