

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
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 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	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	757 800*
		24.0	78.8	71.3	638 100
		26.0	77.1	70.8	543 600
		28.0	75.4	70.2	468 500
		30.0	73.7	69.6	407 400
		32.0	72.0	68.9	356 600
		34.0	70.2	68.2	313 600
		36.0	68.4	67.4	276 800
		38.0	66.6	66.5	245 000
		40.0	64.8	65.5	217 100
		42.0	62.9	64.4	192 500
		44.0	61.0	63.3	170 700
		46.0	59.1	62.1	151 200
		48.0	57.1	60.7	133 600
		50.0	55.1	59.3	117 600
		52.0	53.0	57.8	103 100
		54.0	50.9	56.1	89 900
		56.0	48.6	54.3	77 700
		58.0	46.3	52.4	66 500
		60.0	43.9	50.3	56 200

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	800 000*
		22.0	81.5	79.5	757 800*
		24.0	80.0	79.1	638 200
		26.0	78.4	78.6	543 400
		28.0	76.9	78.1	468 200
		30.0	75.4	77.6	407 000
		32.0	73.8	77.0	356 100
		34.0	72.3	76.3	313 000
		36.0	70.7	75.6	276 200
		38.0	69.1	74.8	244 200
		40.0	67.5	73.9	216 300
		42.0	65.8	73.0	191 700
		44.0	64.2	72.0	169 800
		46.0	62.5	70.9	150 300
		48.0	60.8	69.8	132 700
		50.0	59.0	68.6	116 700
		52.0	57.2	67.2	102 200
		54.0	55.4	65.8	88 900
		56.0	53.6	64.3	76 800
		58.0	51.6	62.7	65 600
		60.0	49.7	61.0	55 200

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25.1m JIB STRUT

38.1m 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	800 000*
		20.0	81.2	64.3	798 900*
		22.0	79.3	63.9	756 500
		24.0	77.4	63.4	620 700
		26.0	75.5	62.9	527 300
		28.0	73.6	62.3	452 600
		30.0	71.6	61.6	391 700
		32.0	69.6	60.8	341 200
		34.0	67.6	59.9	298 400
		36.0	65.6	59.0	261 800
		38.0	63.5	58.0	230 100
		40.0	61.4	56.8	202 400
		42.0	59.2	55.6	177 900
		44.0	57.0	54.3	156 200
		46.0	54.7	52.8	136 700
		48.0	52.3	51.2	119 200
		50.0	49.9	49.5	103 300
		52.0	47.3	47.6	88 900
		54.0	44.7	45.5	75 700
		56.0	41.9	43.3	63 500
6 9 · 5	2 2 8	21.3	81.1	71.8	793 100
		22.0	80.5	71.7	747 500
		24.0	78.8	71.3	623 000
		26.0	77.1	70.8	529 400
		28.0	75.4	70.2	454 500
		30.0	73.7	69.6	393 400
		32.0	72.0	68.9	342 800
		34.0	70.2	68.2	299 900
		36.0	68.4	67.4	263 100
		38.0	66.6	66.5	231 400
		40.0	64.8	65.5	203 600
		42.0	62.9	64.4	179 000
		44.0	61.0	63.3	157 300
		46.0	59.1	62.1	137 800
		48.0	57.1	60.7	120 200
		50.0	55.1	59.3	104 300
		52.0	53.0	57.8	89 800
		54.0	50.9	56.1	76 600
		56.0	48.6	54.3	64 500
		58.0	46.3	52.4	53 300

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	794 200
		22.0	81.5	79.5	748 500
		24.0	80.0	79.1	623 700
		26.0	78.4	78.6	529 900
		28.0	76.9	78.1	454 900
		30.0	75.4	77.6	393 700
		32.0	73.8	77.0	343 000
		34.0	72.3	76.3	300 000
		36.0	70.7	75.6	263 200
		38.0	69.1	74.8	231 400
		40.0	67.5	73.9	203 500
		42.0	65.8	73.0	179 000
		44.0	64.2	72.0	157 100
		46.0	62.5	70.9	137 600
		48.0	60.8	69.8	120 100
		50.0	59.0	68.6	104 100
		52.0	57.2	67.2	89 700
		54.0	55.4	65.8	76 400
		56.0	53.6	64.3	64 300
		58.0	51.6	62.7	53 100

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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
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	796 700*
		22.0	79.3	63.9	736 600
		24.0	77.4	63.4	603 500
		26.0	75.5	62.9	510 500
		28.0	73.6	62.3	436 000
		30.0	71.6	61.6	375 300
		32.0	69.6	60.8	325 000
		34.0	67.6	59.9	282 400
		36.0	65.6	59.0	245 900
		38.0	63.5	58.0	214 300
		40.0	61.4	56.8	186 700
		42.0	59.2	55.6	162 300
		44.0	57.0	54.3	140 600
		46.0	54.7	52.8	121 300
		48.0	52.3	51.2	103 800
		50.0	49.9	49.5	88 000
		52.0	47.3	47.6	73 700
		54.0	44.7	45.5	60 500
		56.0	41.9	43.3	48 400
6 9 · 5	2 2 8	21.3	81.1	71.8	776 500
		22.0	80.5	71.7	731 000
		24.0	78.8	71.3	606 900
		26.0	77.1	70.8	513 600
		28.0	75.4	70.2	438 900
		30.0	73.7	69.6	378 100
		32.0	72.0	68.9	327 600
		34.0	70.2	68.2	284 800
		36.0	68.4	67.4	248 200
		38.0	66.6	66.5	216 600
		40.0	64.8	65.5	188 900
		42.0	62.9	64.4	164 400
		44.0	61.0	63.3	142 700
		46.0	59.1	62.1	123 300
		48.0	57.1	60.7	105 800
		50.0	55.1	59.3	90 000
		52.0	53.0	57.8	75 600
		54.0	50.9	56.1	62 400
		56.0	48.6	54.3	50 300

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MAST NO. 75 OR NO. 75A

25.1m JIB STRUT

53.3m 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	800 000*
		20.0	81.2	64.3	794 500*
		22.0	79.3	63.9	717 000
		24.0	77.4	63.4	586 500
		26.0	75.5	62.9	493 900
		28.0	73.6	62.3	419 800
		30.0	71.6	61.6	359 400
		32.0	69.6	60.8	309 300
		34.0	67.6	59.9	266 800
		36.0	65.6	59.0	230 500
		38.0	63.5	58.0	199 000
		40.0	61.4	56.8	171 600
		42.0	59.2	55.6	147 300
		44.0	57.0	54.3	125 800
		46.0	54.7	52.8	106 500
		48.0	52.3	51.2	89 100
		50.0	49.9	49.5	73 400
		52.0	47.3	47.6	59 100
6 9 · 5	2 2 8	21.3	81.1	71.8	759 800
		22.0	80.5	71.7	714 500
		24.0	78.8	71.3	590 900
		26.0	77.1	70.8	498 000
		28.0	75.4	70.2	423 700
		30.0	73.7	69.6	363 100
		32.0	72.0	68.9	312 800
		34.0	70.2	68.2	270 300
		36.0	68.4	67.4	233 800
		38.0	66.6	66.5	202 300
		40.0	64.8	65.5	174 800
		42.0	62.9	64.4	150 500
		44.0	61.0	63.3	128 800
		46.0	59.1	62.1	109 500
		48.0	57.1	60.7	92 100
		50.0	55.1	59.3	76 400
		52.0	53.0	57.8	62 100

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61.0m JIB AT 8 DEGREE OFFSET
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6 1 . 9	2 0 3	19.8	81.4	64.4	800 000*
		20.0	81.2	64.3	792 000*
		22.0	79.3	63.9	693 900
		24.0	77.4	63.4	566 700
		26.0	75.5	62.9	474 600
		28.0	73.6	62.3	400 900
		30.0	71.6	61.6	340 800
		32.0	69.6	60.8	291 000
		34.0	67.6	59.9	248 700
		36.0	65.6	59.0	212 600
		38.0	63.5	58.0	181 400
		40.0	61.4	56.8	154 100
		42.0	59.2	55.6	130 000
		44.0	57.0	54.3	108 600
		46.0	54.7	52.8	89 400
		48.0	52.3	51.2	72 200
		50.0	49.9	49.5	56 600

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25.1m JIB STRUT

68.6m JIB AT 8 DEGREE OFFSET

18.3m RINGER ATTACHMENT ON SCREW JACK PEDESTALS

23 590 kg CRANE 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	800 000*
		20.0	81.2	64.3	789 700*
		22.0	79.3	63.9	673 400
		24.0	77.4	63.4	548 900
		26.0	75.5	62.9	457 100
		28.0	73.6	62.3	383 700
		30.0	71.6	61.6	323 800
		32.0	69.6	60.8	274 100
		34.0	67.6	59.9	232 000
		36.0	65.6	59.0	196 100
		38.0	63.5	58.0	165 000
		40.0	61.4	56.8	137 700
		42.0	59.2	55.6	113 700
		44.0	57.0	54.3	92 400
		46.0	54.7	52.8	73 300
		48.0	52.3	51.2	56 100