

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
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.

MANITOWOC ENGINEERING CO.

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



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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

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	792 800*
		24.0	77.4	63.4	721 500
		26.0	75.5	62.9	610 500
		28.0	73.6	62.3	529 000
		30.0	71.6	61.6	462 700
		32.0	69.6	60.8	407 600
		34.0	67.6	59.9	361 000
		36.0	65.6	59.0	321 100
		38.0	63.5	58.0	286 700
		40.0	61.4	56.8	256 500
		42.0	59.2	55.6	229 900
		44.0	57.0	54.3	194 700*
		46.0	54.7	52.8	186 000*
		48.0	52.3	51.2	161 000*
		50.0	49.9	49.5	137 300*
		52.0	47.3	47.6	116 100*
		54.0	44.7	45.5	107 500*
		56.0	41.9	43.3	93 200*
6 9 · 5	2 2 8	58.0	38.9	40.7	73 300*
		60.0	35.7	37.9	54 900*
		21.3	81.1	71.8	800 000*
		22.0	80.5	71.7	793 400*
		24.0	78.8	71.3	722 700
		26.0	77.1	70.8	611 300
		28.0	75.4	70.2	529 600
		30.0	73.7	69.6	463 000
		32.0	72.0	68.9	407 800
		34.0	70.2	68.2	361 000
		36.0	68.4	67.4	321 100
		38.0	66.6	66.5	286 500
		40.0	64.8	65.5	256 300
		42.0	62.9	64.4	229 600
		44.0	61.0	63.3	205 900
		46.0	59.1	62.1	184 700
		48.0	57.1	60.7	165 700
		50.0	55.1	59.3	148 400
		52.0	53.0	57.8	128 500*
		54.0	50.9	56.1	109 700*
		56.0	48.6	54.3	92 000*
		58.0	46.3	52.4	75 600*
		60.0	43.9	50.3	71 800*
		62.0	41.4	48.0	60 200*

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	793 400*
		24.0	80.0	79.1	722 500
		26.0	78.4	78.6	610 900
		28.0	76.9	78.1	529 000
		30.0	75.4	77.6	462 300
		32.0	73.8	77.0	407 000
		34.0	72.3	76.3	360 200
		36.0	70.7	75.6	320 100
		38.0	69.1	74.8	285 500
		40.0	67.5	73.9	255 100
		42.0	65.8	73.0	228 400
		44.0	64.2	72.0	204 700
		46.0	62.5	70.9	183 400
		48.0	60.8	69.8	164 300
		50.0	59.0	68.6	147 100
		52.0	57.2	67.2	131 300
		54.0	55.4	65.8	117 000
		56.0	53.6	64.3	103 800
		58.0	51.6	62.7	65 500*
		60.0	49.7	61.0	62 500*
		62.0	47.7	59.1	54 100*

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38.1m JIB AT 20 DEGREE OFFSET

18.3m RINGER ATTACHMENT ON SCREW JACK PEDESTALS

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	800 000*
		22.0	79.3	63.9	782 600*
		24.0	77.4	63.4	696 400
		26.0	75.5	62.9	588 900
		28.0	73.6	62.3	508 300
		30.0	71.6	61.6	442 700
		32.0	69.6	60.8	388 300
		34.0	67.6	59.9	342 200
		36.0	65.6	59.0	302 800
		38.0	63.5	58.0	268 800
		40.0	61.4	56.8	239 000
		42.0	59.2	55.6	212 800
		44.0	57.0	54.3	173 200*
		46.0	54.7	52.8	155 900*
		48.0	52.3	51.2	140 100*
		50.0	49.9	49.5	115 700*
		52.0	47.3	47.6	94 800*
		54.0	44.7	45.5	86 600*
		56.0	41.9	43.3	72 500*
6 9 · 5	2 2 8	21.3	81.1	71.8	800 000*
		22.0	80.5	71.7	783 500*
		24.0	78.8	71.3	698 600
		26.0	77.1	70.8	590 500
		28.0	75.4	70.2	509 700
		30.0	73.7	69.6	443 900
		32.0	72.0	68.9	389 300
		34.0	70.2	68.2	343 100
		36.0	68.4	67.4	303 600
		38.0	66.6	66.5	269 400
		40.0	64.8	65.5	239 500
		42.0	62.9	64.4	213 200
		44.0	61.0	63.3	189 800
		46.0	59.1	62.1	168 900
		48.0	57.1	60.7	150 100
		50.0	55.1	59.3	133 100
		52.0	53.0	57.8	107 900*
		54.0	50.9	56.1	89 600*
		56.0	48.6	54.3	72 200*
		58.0	46.3	52.4	56 000*
		60.0	43.9	50.3	50 900*

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	783 800*
		24.0	80.0	79.1	699 100
		26.0	78.4	78.6	590 800
		28.0	76.9	78.1	509 800
		30.0	75.4	77.6	443 900
		32.0	73.8	77.0	389 200
		34.0	72.3	76.3	342 900
		36.0	70.7	75.6	303 300
		38.0	69.1	74.8	269 000
		40.0	67.5	73.9	239 000
		42.0	65.8	73.0	212 600
		44.0	64.2	72.0	189 200
		46.0	62.5	70.9	168 200
		48.0	60.8	69.8	149 300
		50.0	59.0	68.6	132 300
		52.0	57.2	67.2	116 700
		54.0	55.4	65.8	102 600
		56.0	53.6	64.3	89 600
		58.0	51.6	62.7	46 600*

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MAST NO. 75 OR NO. 75A

25.1m JIB STRUT

45.7m JIB AT 20 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	771 500*
		24.0	77.4	63.4	669 300
		26.0	75.5	62.9	565 500
		28.0	73.6	62.3	486 000
		30.0	71.6	61.6	421 300
		32.0	69.6	60.8	367 500
		34.0	67.6	59.9	322 100
		36.0	65.6	59.0	283 200
		38.0	63.5	58.0	249 600
		40.0	61.4	56.8	220 300
		42.0	59.2	55.6	194 400
		44.0	57.0	54.3	150 200*
		46.0	54.7	52.8	132 200*
		48.0	52.3	51.2	116 800*
		50.0	49.9	49.5	92 800*
		52.0	47.3	47.6	72 300*
		54.0	44.7	45.5	64 300*
		56.0	41.9	43.3	50 600*
6 9 5	2 2 8	21.3	81.1	71.8	800 000*
		22.0	80.5	71.7	772 800*
		24.0	78.8	71.3	672 500
		26.0	77.1	70.8	568 100
		28.0	75.4	70.2	488 400
		30.0	73.7	69.6	423 400
		32.0	72.0	68.9	369 500
		34.0	70.2	68.2	323 800
		36.0	68.4	67.4	284 800
		38.0	66.6	66.5	251 100
		40.0	64.8	65.5	221 600
		42.0	62.9	64.4	195 600
		44.0	61.0	63.3	172 600
		46.0	59.1	62.1	152 000
		48.0	57.1	60.7	133 400
		50.0	55.1	59.3	116 700
		52.0	53.0	57.8	86 000*
		54.0	50.9	56.1	68 300*
		56.0	48.6	54.3	51 100*

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	773 400*
		24.0	80.0	79.1	673 700
		26.0	78.4	78.6	569 100
		28.0	76.9	78.1	489 100
		30.0	75.4	77.6	424 000
		32.0	73.8	77.0	370 000
		34.0	72.3	76.3	324 300
		36.0	70.7	75.6	285 200
		38.0	69.1	74.8	251 400
		40.0	67.5	73.9	221 800
		42.0	65.8	73.0	195 700
		44.0	64.2	72.0	172 600
		46.0	62.5	70.9	151 900
		48.0	60.8	69.8	133 300
		50.0	59.0	68.6	116 500
		52.0	57.2	67.2	101 200
		54.0	55.4	65.8	87 300
		56.0	53.6	64.3	74 200*

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53.3m JIB AT 20 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	761 200*
		24.0	77.4	63.4	644 100
		26.0	75.5	62.9	543 800
		28.0	73.6	62.3	465 200
		30.0	71.6	61.6	401 200
		32.0	69.6	60.8	348 200
		34.0	67.6	59.9	303 300
		36.0	65.6	59.0	264 900
		38.0	63.5	58.0	231 700
		40.0	61.4	56.8	202 700
		42.0	59.2	55.6	177 200
		44.0	57.0	54.3	128 600*
		46.0	54.7	52.8	110 000*
		48.0	52.3	51.2	94 900*
		50.0	49.9	49.5	71 200*
		52.0	47.3	47.6	51 200*
6 9 · 5	2 2 8	21.3	81.1	71.8	800 000*
		22.0	80.5	71.7	762 900*
		24.0	78.8	71.3	648 300
		26.0	77.1	70.8	547 300
		28.0	75.4	70.2	468 500
		30.0	73.7	69.6	404 300
		32.0	72.0	68.9	351 000
		34.0	70.2	68.2	305 900
		36.0	68.4	67.4	267 400
		38.0	66.6	66.5	234 100
		40.0	64.8	65.5	205 000
		42.0	62.9	64.4	179 300
		44.0	61.0	63.3	156 600
		46.0	59.1	62.1	136 200
		48.0	57.1	60.7	117 900
		50.0	55.1	59.3	101 400
		52.0	53.0	57.8	65 500*

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6 1 · 9	2 0 3	19.8	81.4	64.4	800 000*
		20.0	81.2	64.3	799 000*
		22.0	79.3	63.9	756 400
		24.0	77.4	63.4	615 200
		26.0	75.5	62.9	518 300
		28.0	73.6	62.3	440 900
		30.0	71.6	61.6	377 800
		32.0	69.6	60.8	325 500
		34.0	67.6	59.9	281 300
		36.0	65.6	59.0	243 500
		38.0	63.5	58.0	210 900
		40.0	61.4	56.8	182 400
		42.0	59.2	55.6	157 300
		44.0	57.0	54.3	103 600*
		46.0	54.7	52.8	84 200*
		48.0	52.3	51.2	69 600*
6 9 · 5	2 2 8	21.3	81.1	71.8	796 800
		22.0	80.5	71.7	749 300
		24.0	78.8	71.3	620 000
		26.0	77.1	70.8	522 900
		28.0	75.4	70.2	445 200
		30.0	73.7	69.6	381 900
		32.0	72.0	68.9	329 400
		34.0	70.2	68.2	285 000
		36.0	68.4	67.4	247 000
		38.0	66.6	66.5	214 200
		40.0	64.8	65.5	185 600
		42.0	62.9	64.4	160 300
		44.0	61.0	63.3	137 900
		46.0	59.1	62.1	117 900
		48.0	57.1	60.7	99 900
		50.0	55.1	59.3	81 700*

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6 1 · 9	2 0 3	19.8	81.4	64.4	800 000*
		20.0	81.2	64.3	795 300*
		22.0	79.3	63.9	722 900
		24.0	77.4	63.4	587 600
		26.0	75.5	62.9	492 400
		28.0	73.6	62.3	416 200
		30.0	71.6	61.6	354 200
		32.0	69.6	60.8	302 700
		34.0	67.6	59.9	259 300
		36.0	65.6	59.0	222 100
		38.0	63.5	58.0	190 000
		40.0	61.4	56.8	162 100
		42.0	59.2	55.6	137 400
		44.0	57.0	54.3	78 800*
		46.0	54.7	52.8	58 600*