

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

M-1200

BOOM NO. 72 WITH 800 METRIC TON BOOM POINT

MAST NO. 75 OR NO. 75A

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, SLINGS, HOIST LINES, ETC., BENEATH BOOM SHEAVES, IS CONSIDERED PART OF MAIN BOOM LOAD. BOOM IS NOT TO BE LOWERED BEYOND RADII WHERE COMBINED WEIGHTS 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. REFER TO BOOM RIGGING NO. 173399 AND WIRE ROPE SPECIFICATION CHART NO. 7683-A. 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 WITHIN WIND LIMITS SHOWN IN TABLE 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 TO APPROXIMATELY 75 DEGREE BOOM ANGLE WHEN WIND EXCEEDS THOSE SHOWN IN TABLE. LOWER BOOM 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 OR NO. 75A MAST, 32 PART BOOM HOIST REEVING, STRAP BOOM PENDANTS, 23 590 kg CRANE COUNTERWEIGHT AND 915 170 kg AUXILIARY COUNTERWEIGHT.

WIND LIMITS DURING OPERATION	
MAXIMUM WIND VELOCITY m/s	BOOM LENGTH METERS
16	46.6 - 77.1
13	84.7 - 122.8

MAXIMUM BOOM LENGTH LIFTED UNASSISTED = 122.8m	DEDUCT 2 450 kg FROM CAPACITIES WHEN UPPER BOOM POINT IS ATTACHED
LOAD BLOCKS ON GROUND AT START.	

CONSULT JIB CHART FOR JIB CAPACITIES. JIB AND JIB BACKSTAYS MUST BE REMOVED FOR USE OF THIS CHART.

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

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RAD. METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KILOGRAMS
4 6 6	1 5 3	17.1	82.0	49.4	800 000*
		18.0	80.8	49.2	800 000*
		19.0	79.6	49.0	800 000*
		20.0	78.3	48.7	800 000*
		22.0	75.8	48.2	800 000*
		24.0	73.2	47.5	800 000*
		26.0	70.6	46.8	752 200
		28.0	67.9	45.9	669 900
		30.0	65.1	45.0	603 600
		32.0	62.3	43.9	548 500
		34.0	59.5	42.6	501 900
		36.0	56.5	41.3	462 100
		38.0	53.4	39.7	427 700
		40.0	50.1	38.0	397 500
		42.0	46.7	36.1	371 000
		44.0	43.1	33.9	347 400
		46.0	39.2	31.4	325 500
		48.0	34.8	28.5	295 600*
		50.0	29.9	25.0	266 400*

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RAD. METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KILOGRAMS
5 4 3	1 7 8	19.8	80.2	56.6	800 000*
		20.0	80.0	56.6	800 000*
		22.0	77.8	56.1	800 000*
		24.0	75.6	55.5	800 000*
		26.0	73.4	54.9	748 400
		28.0	71.2	54.2	666 100
		30.0	68.9	53.4	599 700
		32.0	66.6	52.5	544 700
		34.0	64.2	51.5	498 100
		36.0	61.8	50.3	458 200
		38.0	59.3	49.1	423 800
		40.0	56.8	47.8	393 700
		42.0	54.1	46.3	367 100
		44.0	51.4	44.6	343 500
		46.0	48.5	42.8	322 400
		48.0	45.6	40.8	303 500
		50.0	42.4	38.6	286 400
		52.0	39.0	36.1	270 700
		54.0	35.3	33.2	256 500
		56.0	31.2	29.9	240 400*

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BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RAD. METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	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	800 000*
		24.0	77.4	63.4	800 000*
		26.0	75.5	62.9	745 500
		28.0	73.6	62.3	663 300
		30.0	71.6	61.6	596 900
		32.0	69.6	60.8	541 800
		34.0	67.6	59.9	495 200
		36.0	65.6	59.0	455 400
		38.0	63.5	58.0	420 900
		40.0	61.4	56.8	390 800
		42.0	59.2	55.6	364 200
		44.0	57.0	54.3	340 700
		46.0	54.7	52.8	319 600
		48.0	52.3	51.2	300 600
		50.0	49.9	49.5	283 500
		52.0	47.3	47.6	267 900
		54.0	44.7	45.5	253 700
		56.0	41.9	43.3	240 700
		58.0	38.9	40.7	228 700
		60.0	35.7	37.9	217 600
		62.0	32.2	34.7	207 300
		64.0	28.3	31.0	197 800
6 9 · 5	2 2 8	21.3	81.1	71.8	800 000*
		22.0	80.5	71.7	800 000*
		24.0	78.8	71.3	800 000*
		26.0	77.1	70.8	741 400
		28.0	75.4	70.2	659 200
		30.0	73.7	69.6	592 800
		32.0	72.0	68.9	537 700
		34.0	70.2	68.2	491 100
		36.0	68.4	67.4	451 200
		38.0	66.6	66.5	416 800
		40.0	64.8	65.5	386 600
		42.0	62.9	64.4	360 100
		44.0	61.0	63.3	336 500
		46.0	59.1	62.1	315 400
		48.0	57.1	60.7	296 400
		50.0	55.1	59.3	279 300
		52.0	53.0	57.8	263 700
		54.0	50.9	56.1	249 500
		56.0	48.6	54.3	236 500
		58.0	46.3	52.4	224 500
		60.0	43.9	50.3	213 500
		62.0	41.4	48.0	203 200
		64.0	38.8	45.4	193 700
		66.0	36.0	42.7	184 800
		68.0	32.9	39.5	176 600
		70.0	29.6	36.0	168 800

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RAD. METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	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	800 000*
		26.0	78.4	78.6	737 200
		28.0	76.9	78.1	655 100
		30.0	75.4	77.6	588 700
		32.0	73.8	77.0	533 600
		34.0	72.3	76.3	486 900
		36.0	70.7	75.6	447 100
		38.0	69.1	74.8	412 600
		40.0	67.5	73.9	382 400
		42.0	65.8	73.0	355 900
		44.0	64.2	72.0	332 300
		46.0	62.5	70.9	311 200
		48.0	60.8	69.8	292 200
		50.0	59.0	68.6	275 100
		52.0	57.2	67.2	259 500
		54.0	55.4	65.8	245 300
		56.0	53.6	64.3	232 300
		58.0	51.6	62.7	220 300
		60.0	49.7	61.0	209 200
		62.0	47.7	59.1	199 000
		64.0	45.6	57.1	189 500
		66.0	43.4	55.0	180 600
		68.0	41.1	52.7	172 400
8 4 · 7	2 7 8	70.0	38.7	50.1	164 600
		72.0	36.2	47.4	157 400
		74.0	33.5	44.3	150 600
		76.0	30.5	40.9	144 100
		22.9	81.7	87.0	800 000*
		24.0	80.9	86.8	800 000*
		26.0	79.5	86.4	734 400
		28.0	78.1	86.0	652 300
		30.0	76.7	85.5	585 900
		32.0	75.3	84.9	530 800
		34.0	73.9	84.3	484 100
		36.0	72.5	83.7	444 200
		38.0	71.0	83.0	409 700
		40.0	69.6	82.2	379 500
		42.0	68.1	81.4	353 000
		44.0	66.7	80.5	329 400
		46.0	65.2	79.5	308 300
		48.0	63.6	78.5	289 300
		50.0	62.1	77.4	272 200
		52.0	60.5	76.3	256 600
		54.0	59.0	75.0	242 400
		56.0	57.3	73.7	229 300
		58.0	55.7	72.3	217 300
		60.0	54.0	70.9	206 300
		62.0	52.3	69.3	196 100
		64.0	50.5	67.6	186 500
		66.0	48.7	65.8	177 700
		68.0	46.8	63.9	169 400
		70.0	44.9	61.9	161 700
		72.0	42.9	59.7	154 500
		74.0	40.8	57.4	147 700
		76.0	38.7	54.8	141 300
		78.0	36.4	52.1	135 200
		80.0	33.9	49.1	129 500
		82.0	31.3	45.8	124 100

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9 2 · 4	3 0 3	24.4	81.4	94.5	797 300*
		26.0	80.4	94.2	729 900*
		28.0	79.1	93.8	648 400
		30.0	77.8	93.3	581 800
		32.0	76.6	92.8	526 600
		34.0	75.3	92.3	479 900
		36.0	74.0	91.7	440 000
		38.0	72.7	91.1	405 500
		40.0	71.4	90.4	375 400
		42.0	70.0	89.6	348 800
		44.0	68.7	88.8	325 200
		46.0	67.3	87.9	304 100
		48.0	66.0	87.0	285 100
		50.0	64.6	86.1	267 900
		52.0	63.2	85.0	252 400
		54.0	61.8	83.9	238 100
		56.0	60.4	82.8	225 100
		58.0	58.9	81.5	213 100
		60.0	57.4	80.2	202 000
		62.0	55.9	78.8	191 800
		64.0	54.4	77.4	182 300
		66.0	52.8	75.8	173 500
		68.0	51.2	74.2	165 200
		70.0	49.6	72.5	157 500
		72.0	47.9	70.6	150 200
1 0 0 · 0	3 2 8	74.0	46.2	68.7	143 400
		76.0	44.4	66.6	137 100
		78.0	42.5	64.4	131 000
		80.0	40.6	62.1	125 300
		82.0	38.6	59.5	119 900
		84.0	36.5	56.8	114 800
		86.0	34.3	53.9	109 900
		88.0	31.9	50.6	105 300
		90.0	29.4	47.1	100 900
		25.9	81.2	102.0	690 500*
		26.0	81.1	102.0	687 500*
		28.0	80.0	101.6	622 600*
		30.0	78.8	101.2	569 400*
		32.0	77.6	100.7	523 600
		34.0	76.4	100.2	476 900
		36.0	75.2	99.6	437 000
		38.0	74.0	99.1	402 400
		40.0	72.8	98.4	372 300
		42.0	71.6	97.7	345 700
		44.0	70.4	97.0	322 000
		46.0	69.2	96.2	300 900
		48.0	67.9	95.4	281 900
		50.0	66.7	94.5	264 800
		52.0	65.4	93.6	249 200
		54.0	64.1	92.6	235 000
		56.0	62.8	91.5	221 900
		58.0	61.5	90.4	210 000
		60.0	60.2	89.2	198 900
		62.0	58.9	88.0	188 700
		64.0	57.5	86.7	179 200
		66.0	56.1	85.3	170 300

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RAD. METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KILOGRAMS
1 0 0 · 0	3 2 8	68.0	54.7	83.9	162 000
		70.0	53.3	82.4	154 300
		72.0	51.8	80.8	147 100
		74.0	50.3	79.1	140 300
		76.0	48.8	77.3	133 900
		78.0	47.2	75.4	127 900
		80.0	45.6	73.5	122 200
		82.0	43.9	71.4	116 800
		84.0	42.2	69.1	111 700
		86.0	40.4	66.8	106 800
		88.0	38.6	64.2	102 200
		90.0	36.6	61.5	97 800
1 0 7 · 6	3 5 3	92.0	34.6	58.6	93 600
		94.0	32.5	55.4	89 700
		96.0	30.2	52.0	85 800
		25.9	81.8	109.7	650 900*
		26.0	81.8	109.7	648 000*
		28.0	80.7	109.3	586 200*
		30.0	79.6	108.9	535 700*
		32.0	78.5	108.5	493 300*
		34.0	77.4	108.1	457 100*
		36.0	76.3	107.5	425 700*
		38.0	75.2	107.0	398 000
		40.0	74.1	106.4	368 100
		42.0	73.0	105.8	341 500
		44.0	71.9	105.1	317 900
		46.0	70.7	104.4	296 700
		48.0	69.6	103.6	277 800
		50.0	68.4	102.8	260 600
		52.0	67.3	101.9	245 000
		54.0	66.1	101.0	230 800
		56.0	64.9	100.1	217 700
		58.0	63.7	99.1	205 700
		60.0	62.5	98.0	194 700
		62.0	61.3	96.9	184 400
		64.0	60.1	95.7	174 900
		66.0	58.8	94.5	166 100
		68.0	57.6	93.2	157 800
		70.0	56.3	91.8	150 100
		72.0	55.0	90.4	142 800
		74.0	53.6	88.9	136 100
		76.0	52.3	87.3	129 700
		78.0	50.9	85.7	123 600
		80.0	49.5	84.0	117 900
		82.0	48.0	82.1	112 500
		84.0	46.6	80.2	107 400
		86.0	45.1	78.2	102 600
		88.0	43.5	76.1	98 000
		90.0	41.9	73.8	93 600
		92.0	40.2	71.4	89 400
		94.0	38.5	68.9	85 400
		96.0	36.7	66.2	81 600
		98.0	34.9	63.3	78 000
		100.0	32.9	60.2	74 500
		102.0	30.8	56.9	71 200
		104.0	28.6	53.2	68 000

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1 1 5 · 2	3 7 8	27.4	81.6	117.2	570 800*
		28.0	81.3	117.1	556 000*
		30.0	80.3	116.7	506 700*
		32.0	79.3	116.3	466 100*
		34.0	78.3	115.9	431 500*
		36.0	77.2	115.4	401 500*
		38.0	76.2	114.9	375 400*
		40.0	75.2	114.4	352 200*
		42.0	74.1	113.8	331 500*
		44.0	73.1	113.1	312 900*
		46.0	72.0	112.5	293 600
		48.0	71.0	111.8	274 500
		50.0	69.9	111.0	257 300
		52.0	68.9	110.2	241 700
		54.0	67.8	109.4	227 500
		56.0	66.7	108.5	214 400
		58.0	65.6	107.6	202 400
		60.0	64.5	106.6	191 400
		62.0	63.4	105.6	181 100
		64.0	62.3	104.5	171 600
		66.0	61.1	103.4	162 800
		68.0	60.0	102.2	154 500
		70.0	58.8	101.0	146 800
		72.0	57.6	99.7	139 600
		74.0	56.4	98.3	132 700
		76.0	55.2	96.9	126 300
		78.0	54.0	95.4	120 300
		80.0	52.7	93.9	114 600
		82.0	51.4	92.3	109 200
		84.0	50.1	90.6	104 100
		86.0	48.8	88.8	99 300
		88.0	47.4	87.0	94 700
		90.0	46.0	85.0	90 300
		92.0	44.6	83.0	86 100
		94.0	43.2	80.8	82 200
1 2 2 · 8	4 0 3	96.0	41.6	78.5	78 400
		98.0	40.1	76.1	74 700
		100.0	38.5	73.6	71 300
		102.0	36.8	70.9	67 900
		104.0	35.1	68.1	64 700
		106.0	33.3	65.0	61 700
		108.0	31.4	61.7	58 700
		110.0	29.3	58.2	55 900
		29.0	81.4	124.6	502 700*
		30.0	80.9	124.5	479 800*
		32.0	79.9	124.1	440 100*
		34.0	79.0	123.7	406 800*
		36.0	78.0	123.2	378 000*
		38.0	77.1	122.8	352 900*
		40.0	76.1	122.3	330 700*
		42.0	75.2	121.7	311 000*
		44.0	74.2	121.1	293 200*
		46.0	73.2	120.5	277 200*
		48.0	72.2	119.8	262 600*
		50.0	71.2	119.1	249 200*
		52.0	70.2	118.4	236 700*
		54.0	69.2	117.6	223 400
		56.0	68.2	116.8	210 200
		58.0	67.2	116.0	198 200
		60.0	66.2	115.1	187 200
		62.0	65.2	114.1	176 900
		64.0	64.1	113.1	167 400
		66.0	63.1	112.1	158 600
		68.0	62.0	111.0	150 300
		70.0	60.9	109.9	142 500
		72.0	59.9	108.7	135 300
		74.0	58.8	107.5	128 500

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RAD. METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KILOGRAMS
1 2 2 · 8	4 0 3	76.0	57.7	106.2	122 100
		78.0	56.5	104.8	116 100
		80.0	55.4	103.4	110 400
		82.0	54.2	102.0	105 000
		84.0	53.1	100.4	99 900
		86.0	51.9	98.9	95 100
		88.0	50.7	97.2	90 400
		90.0	49.4	95.5	86 000
		92.0	48.2	93.7	81 900
		94.0	46.9	91.8	77 900
		96.0	45.6	89.8	74 100
		98.0	44.2	87.7	70 500
		100.0	42.8	85.5	67 000
		102.0	41.4	83.2	63 700
		104.0	40.0	80.8	60 500
		106.0	38.5	78.3	57 400
		108.0	36.9	75.6	54 500
		110.0	35.3	72.8	51 700
		112.0	33.6	69.8	48 900
		114.0	31.8	66.5	46 300