

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
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, 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 795 420 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	752 500
		26.0	70.6	46.8	664 600
		28.0	67.9	45.9	592 000
		30.0	65.1	45.0	532 900
		32.0	62.3	43.9	483 800
		34.0	59.5	42.6	442 300
		36.0	56.5	41.3	406 800
		38.0	53.4	39.7	376 000
		40.0	50.1	38.0	349 200
		42.0	46.7	36.1	325 500
		44.0	43.1	33.9	304 400
		46.0	39.2	31.4	285 600
		48.0	34.8	28.5	268 700
		50.0	29.9	25.0	253 300

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	749 700
		26.0	73.4	54.9	660 800
		28.0	71.2	54.2	588 200
		30.0	68.9	53.4	529 000
		32.0	66.6	52.5	479 900
		34.0	64.2	51.5	438 400
		36.0	61.8	50.3	402 900
		38.0	59.3	49.1	372 200
		40.0	56.8	47.8	345 300
		42.0	54.1	46.3	321 600
		44.0	51.4	44.6	300 600
		46.0	48.5	42.8	281 800
		48.0	45.6	40.8	264 900
		50.0	42.4	38.6	249 600
		52.0	39.0	36.1	235 700
		54.0	35.3	33.2	222 900
		56.0	31.2	29.9	211 300

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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	747 600
		26.0	75.5	62.9	658 100
		28.0	73.6	62.3	585 400
		30.0	71.6	61.6	526 200
		32.0	69.6	60.8	477 100
		34.0	67.6	59.9	435 500
		36.0	65.6	59.0	400 000
		38.0	63.5	58.0	369 300
		40.0	61.4	56.8	342 400
		42.0	59.2	55.6	318 700
		44.0	57.0	54.3	297 800
		46.0	54.7	52.8	278 900
		48.0	52.3	51.2	262 000
		50.0	49.9	49.5	246 700
		52.0	47.3	47.6	232 900
		54.0	44.7	45.5	220 200
		56.0	41.9	43.3	208 500
6 9 · 5	2 2 8	58.0	38.9	40.7	197 900
		60.0	35.7	37.9	188 000
		62.0	32.2	34.7	178 800
		64.0	28.3	31.0	170 300
		21.3	81.1	71.8	800 000*
		22.0	80.5	71.7	800 000*
		24.0	78.8	71.3	744 600
		26.0	77.1	70.8	654 000
		28.0	75.4	70.2	581 300
		30.0	73.7	69.6	522 100
		32.0	72.0	68.9	473 000
		34.0	70.2	68.2	431 400
		36.0	68.4	67.4	395 900
		38.0	66.6	66.5	365 200
		40.0	64.8	65.5	338 200
		42.0	62.9	64.4	314 600
		44.0	61.0	63.3	293 500
		46.0	59.1	62.1	274 800
		48.0	57.1	60.7	257 800
		50.0	55.1	59.3	242 500
		52.0	53.0	57.8	228 600
		54.0	50.9	56.1	216 000
		56.0	48.6	54.3	204 300
		58.0	46.3	52.4	193 700
		60.0	43.9	50.3	183 800
		62.0	41.4	48.0	174 700
		64.0	38.8	45.4	166 200
		66.0	36.0	42.7	158 300
		68.0	32.9	39.5	150 900
		70.0	29.6	36.0	144 000

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	741 700
		26.0	78.4	78.6	650 000
		28.0	76.9	78.1	577 300
		30.0	75.4	77.6	518 000
		32.0	73.8	77.0	468 900
		34.0	72.3	76.3	427 300
		36.0	70.7	75.6	391 700
		38.0	69.1	74.8	361 000
		40.0	67.5	73.9	334 100
		42.0	65.8	73.0	310 400
		44.0	64.2	72.0	289 400
		46.0	62.5	70.9	270 500
		48.0	60.8	69.8	253 600
		50.0	59.0	68.6	238 300
		52.0	57.2	67.2	224 400
		54.0	55.4	65.8	211 700
		56.0	53.6	64.3	200 100
		58.0	51.6	62.7	189 500
8 4 · 7	2 7 8	60.0	49.7	61.0	179 600
		62.0	47.7	59.1	170 400
		64.0	45.6	57.1	162 000
		66.0	43.4	55.0	154 100
		68.0	41.1	52.7	146 700
		70.0	38.7	50.1	139 800
		72.0	36.2	47.4	133 300
		74.0	33.5	44.3	127 200
		76.0	30.5	40.9	121 500
		22.9	81.7	87.0	800 000*
		24.0	80.9	86.8	739 600
		26.0	79.5	86.4	647 200
		28.0	78.1	86.0	574 500
		30.0	76.7	85.5	515 200
		32.0	75.3	84.9	466 000
		34.0	73.9	84.3	424 400
		36.0	72.5	83.7	388 800
		38.0	71.0	83.0	358 100
		40.0	69.6	82.2	331 200
		42.0	68.1	81.4	307 400
		44.0	66.7	80.5	286 400
		46.0	65.2	79.5	267 600
		48.0	63.6	78.5	250 700
		50.0	62.1	77.4	235 400
		52.0	60.5	76.3	221 500
		54.0	59.0	75.0	208 800
		56.0	57.3	73.7	197 200
		58.0	55.7	72.3	186 500
		60.0	54.0	70.9	176 600
		62.0	52.3	69.3	167 500
		64.0	50.5	67.6	159 100
		66.0	48.7	65.8	151 100
		68.0	46.8	63.9	143 800
		70.0	44.9	61.9	136 900
		72.0	42.9	59.7	130 500
		74.0	40.8	57.4	124 400
		76.0	38.7	54.8	118 700
		78.0	36.4	52.1	113 300
		80.0	33.9	49.1	108 200
		82.0	31.3	45.8	103 300

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9 2 · 4	3 0 3	24.4	81.4	94.5	715 300
		26.0	80.4	94.2	643 200
		28.0	79.1	93.8	570 400
		30.0	77.8	93.3	511 100
		32.0	76.6	92.8	461 900
		34.0	75.3	92.3	420 300
		36.0	74.0	91.7	384 700
		38.0	72.7	91.1	353 900
		40.0	71.4	90.4	327 000
		42.0	70.0	89.6	303 300
		44.0	68.7	88.8	282 200
		46.0	67.3	87.9	263 400
		48.0	66.0	87.0	246 500
		50.0	64.6	86.1	231 200
		52.0	63.2	85.0	217 300
		54.0	61.8	83.9	204 600
		56.0	60.4	82.8	193 000
		58.0	58.9	81.5	182 300
		60.0	57.4	80.2	172 400
		62.0	55.9	78.8	163 300
		64.0	54.4	77.4	154 800
		66.0	52.8	75.8	146 900
		68.0	51.2	74.2	139 500
		70.0	49.6	72.5	132 700
		72.0	47.9	70.6	126 200
1 0 0 · 0	3 2 8	74.0	46.2	68.7	120 100
		76.0	44.4	66.6	114 400
		78.0	42.5	64.4	109 000
		80.0	40.6	62.1	103 900
		82.0	38.6	59.5	99 100
		84.0	36.5	56.8	94 500
		86.0	34.3	53.9	90 200
		88.0	31.9	50.6	86 100
		90.0	29.4	47.1	82 200
		25.9	81.2	102.0	644 100
		26.0	81.1	102.0	640 600
		28.0	80.0	101.6	567 400
		30.0	78.8	101.2	508 100
		32.0	77.6	100.7	458 800
		34.0	76.4	100.2	417 200
		36.0	75.2	99.6	381 600
		38.0	74.0	99.1	350 800
		40.0	72.8	98.4	323 900
		42.0	71.6	97.7	300 200
		44.0	70.4	97.0	279 100
		46.0	69.2	96.2	260 300
		48.0	67.9	95.4	243 400
		50.0	66.7	94.5	228 000
		52.0	65.4	93.6	214 100
		54.0	64.1	92.6	201 500
		56.0	62.8	91.5	189 800
		58.0	61.5	90.4	179 100
		60.0	60.2	89.2	169 200
		62.0	58.9	88.0	160 100
		64.0	57.5	86.7	151 700
		66.0	56.1	85.3	143 800

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	136 400
		70.0	53.3	82.4	129 500
		72.0	51.8	80.8	123 100
		74.0	50.3	79.1	117 000
		76.0	48.8	77.3	111 300
		78.0	47.2	75.4	105 900
		80.0	45.6	73.5	100 800
		82.0	43.9	71.4	96 000
		84.0	42.2	69.1	91 400
		86.0	40.4	66.8	87 100
		88.0	38.6	64.2	83 000
		90.0	36.6	61.5	79 100
1 0 7 · 6	3 5 3	92.0	34.6	58.6	75 400
		94.0	32.5	55.4	71 800
		96.0	30.2	52.0	68 400
		25.9	81.8	109.7	640 100
		26.0	81.8	109.7	636 600
		28.0	80.7	109.3	563 400
		30.0	79.6	108.9	504 000
		32.0	78.5	108.5	454 800
		34.0	77.4	108.1	413 100
		36.0	76.3	107.5	377 500
		38.0	75.2	107.0	346 700
		40.0	74.1	106.4	319 700
		42.0	73.0	105.8	296 000
		44.0	71.9	105.1	274 900
		46.0	70.7	104.4	256 100
		48.0	69.6	103.6	239 100
		50.0	68.4	102.8	223 800
		52.0	67.3	101.9	209 900
		54.0	66.1	101.0	197 200
		56.0	64.9	100.1	185 600
		58.0	63.7	99.1	174 900
		60.0	62.5	98.0	165 000
		62.0	61.3	96.9	155 900
		64.0	60.1	95.7	147 400
		66.0	58.8	94.5	139 500
		68.0	57.6	93.2	132 100
		70.0	56.3	91.8	125 300
		72.0	55.0	90.4	118 800
		74.0	53.6	88.9	112 700
		76.0	52.3	87.3	107 000
		78.0	50.9	85.7	101 600
		80.0	49.5	84.0	96 500
		82.0	48.0	82.1	91 700
		84.0	46.6	80.2	87 200
		86.0	45.1	78.2	82 900
		88.0	43.5	76.1	78 700
		90.0	41.9	73.8	74 900
		92.0	40.2	71.4	71 100
		94.0	38.5	68.9	67 600
		96.0	36.7	66.2	64 200
		98.0	34.9	63.3	60 900
		100.0	32.9	60.2	57 800
		102.0	30.8	56.9	54 800
		104.0	28.6	53.2	52 000

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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	555 800*
		30.0	80.3	116.7	501 800
		32.0	79.3	116.3	451 600
		34.0	78.3	115.9	409 900
		36.0	77.2	115.4	374 300
		38.0	76.2	114.9	343 400
		40.0	75.2	114.4	316 500
		42.0	74.1	113.8	292 800
		44.0	73.1	113.1	271 700
		46.0	72.0	112.5	252 800
		48.0	71.0	111.8	235 900
		50.0	69.9	111.0	220 600
		52.0	68.9	110.2	206 600
		54.0	67.8	109.4	194 000
		56.0	66.7	108.5	182 300
		58.0	65.6	107.6	171 600
		60.0	64.5	106.6	161 700
		62.0	63.4	105.6	152 600
		64.0	62.3	104.5	144 100
		66.0	61.1	103.4	136 200
		68.0	60.0	102.2	128 900
		70.0	58.8	101.0	122 000
		72.0	57.6	99.7	115 500
		74.0	56.4	98.3	109 400
		76.0	55.2	96.9	103 700
		78.0	54.0	95.4	98 300
		80.0	52.7	93.9	93 300
		82.0	51.4	92.3	88 500
		84.0	50.1	90.6	83 900
		86.0	48.8	88.8	79 600
		88.0	47.4	87.0	75 500
		90.0	46.0	85.0	71 500
		92.0	44.6	83.0	67 800
		94.0	43.2	80.8	64 300
		96.0	41.6	78.5	60 900
		98.0	40.1	76.1	57 600
		100.0	38.5	73.6	54 500
		102.0	36.8	70.9	51 600
		104.0	35.1	68.1	48 700
1 2 2 · 8	4 0 3	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	405 800*
		36.0	78.0	123.2	370 300
		38.0	77.1	122.8	339 300
		40.0	76.1	122.3	312 400
		42.0	75.2	121.7	288 600
		44.0	74.2	121.1	267 500
		46.0	73.2	120.5	248 700
		48.0	72.2	119.8	231 700
		50.0	71.2	119.1	216 400
		52.0	70.2	118.4	202 400
		54.0	69.2	117.6	189 700
		56.0	68.2	116.8	178 100
		58.0	67.2	116.0	167 400
		60.0	66.2	115.1	157 500
		62.0	65.2	114.1	148 400
		64.0	64.1	113.1	139 900
		66.0	63.1	112.1	132 000
		68.0	62.0	111.0	124 600
		70.0	60.9	109.9	117 700
		72.0	59.9	108.7	111 300
		74.0	58.8	107.5	105 200
		76.0	57.7	106.2	99 500
		78.0	56.5	104.8	94 100
		80.0	55.4	103.4	89 000

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	82.0	54.2	102.0	84 200
		84.0	53.1	100.4	79 700
		86.0	51.9	98.9	75 300
		88.0	50.7	97.2	71 200
		90.0	49.4	95.5	67 300
		92.0	48.2	93.7	63 600
		94.0	46.9	91.8	60 000
		96.0	45.6	89.8	56 600
		98.0	44.2	87.7	53 400
		100.0	42.8	85.5	50 300
		102.0	41.4	83.2	47 300