

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

M-1200

BOOM NO. 72 WITH 1300 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	1 300 000*
		18.0	80.8	49.2	1 260 800
		19.0	79.6	49.0	1 126 600
		20.0	78.3	48.7	1 025 800
		22.0	75.8	48.2	867 400
		24.0	73.2	47.5	749 700
		26.0	70.6	46.8	658 900
		28.0	67.9	45.9	586 200
		30.0	65.1	45.0	527 000
		32.0	62.3	43.9	477 900
		34.0	59.5	42.6	436 300
		36.0	56.5	41.3	400 700
		38.0	53.4	39.7	370 000
		40.0	50.1	38.0	343 000
		42.0	46.7	36.1	319 300
		44.0	43.1	33.9	298 300
		46.0	39.2	31.4	279 400
		48.0	34.8	28.5	262 400
		50.0	29.9	25.0	247 100

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	1 040 300
		20.0	80.0	56.6	1 024 400
		22.0	77.8	56.1	863 700
		24.0	75.6	55.5	746 000
		26.0	73.4	54.9	655 100
		28.0	71.2	54.2	582 400
		30.0	68.9	53.4	523 200
		32.0	66.6	52.5	474 000
		34.0	64.2	51.5	432 400
		36.0	61.8	50.3	396 900
		38.0	59.3	49.1	366 100
		40.0	56.8	47.8	339 200
		42.0	54.1	46.3	315 500
		44.0	51.4	44.6	294 400
		46.0	48.5	42.8	275 600
		48.0	45.6	40.8	258 700
		50.0	42.4	38.6	243 400
		52.0	39.0	36.1	229 400
		54.0	35.3	33.2	216 700
		56.0	31.2	29.9	205 000

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6 1 · 9	2 0 3	19.8	81.4	64.4	1 037 600
		20.0	81.2	64.3	1 021 700
		22.0	79.3	63.9	861 000
		24.0	77.4	63.4	743 300
		26.0	75.5	62.9	652 300
		28.0	73.6	62.3	579 600
		30.0	71.6	61.6	520 300
		32.0	69.6	60.8	471 200
		34.0	67.6	59.9	429 600
		36.0	65.6	59.0	394 000
		38.0	63.5	58.0	363 200
		40.0	61.4	56.8	336 300
		42.0	59.2	55.6	312 600
		44.0	57.0	54.3	291 600
		46.0	54.7	52.8	272 800
		48.0	52.3	51.2	255 800
		50.0	49.9	49.5	240 600
		52.0	47.3	47.6	226 700
		54.0	44.7	45.5	213 900
		56.0	41.9	43.3	202 300
6 9 · 5	2 2 8	58.0	38.9	40.7	191 500
		60.0	35.7	37.9	181 700
		62.0	32.2	34.7	172 500
		64.0	28.3	31.0	164 000
		21.3	81.1	71.8	904 900
		22.0	80.5	71.7	860 400
		24.0	78.8	71.3	739 300
		26.0	77.1	70.8	648 300
		28.0	75.4	70.2	575 500
		30.0	73.7	69.6	516 300
		32.0	72.0	68.9	467 100
		34.0	70.2	68.2	425 500
		36.0	68.4	67.4	389 900
		38.0	66.6	66.5	359 100
		40.0	64.8	65.5	332 200
		42.0	62.9	64.4	308 500
		44.0	61.0	63.3	287 400
		46.0	59.1	62.1	268 600
		48.0	57.1	60.7	251 700
		50.0	55.1	59.3	236 400
		52.0	53.0	57.8	222 500
		54.0	50.9	56.1	209 700
		56.0	48.6	54.3	198 100
		58.0	46.3	52.4	187 400
		60.0	43.9	50.3	177 500
		62.0	41.4	48.0	168 400
		64.0	38.8	45.4	159 900
		66.0	36.0	42.7	152 000
		68.0	32.9	39.5	144 600

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	901 000
		22.0	81.5	79.5	856 600
		24.0	80.0	79.1	735 400
		26.0	78.4	78.6	644 300
		28.0	76.9	78.1	571 500
		30.0	75.4	77.6	512 200
		32.0	73.8	77.0	463 000
		34.0	72.3	76.3	421 300
		36.0	70.7	75.6	385 700
		38.0	69.1	74.8	354 900
		40.0	67.5	73.9	328 000
		42.0	65.8	73.0	304 300
		44.0	64.2	72.0	283 200
		46.0	62.5	70.9	264 400
		48.0	60.8	69.8	247 500
		50.0	59.0	68.6	232 200
		52.0	57.2	67.2	218 300
		54.0	55.4	65.8	205 500
		56.0	53.6	64.3	193 900
		58.0	51.6	62.7	183 200
8 4 · 7	2 7 8	60.0	49.7	61.0	173 300
		62.0	47.7	59.1	164 200
		64.0	45.6	57.1	155 700
		66.0	43.4	55.0	147 800
		68.0	41.1	52.7	140 400
		70.0	38.7	50.1	133 500
		72.0	36.2	47.4	127 000
		74.0	33.5	44.3	120 900
		76.0	30.5	40.9	115 200
		22.9	81.7	87.0	796 300
		24.0	80.9	86.8	734 500
		26.0	79.5	86.4	641 500
		28.0	78.1	86.0	568 700
		30.0	76.7	85.5	509 300
		32.0	75.3	84.9	460 100
		34.0	73.9	84.3	418 400
		36.0	72.5	83.7	382 800
		38.0	71.0	83.0	352 000
		40.0	69.6	82.2	325 100
		42.0	68.1	81.4	301 400
		44.0	66.7	80.5	280 300
		46.0	65.2	79.5	261 500
		48.0	63.6	78.5	244 500
		50.0	62.1	77.4	229 200
		52.0	60.5	76.3	215 300
		54.0	59.0	75.0	202 600
		56.0	57.3	73.7	191 000
		58.0	55.7	72.3	180 300
		60.0	54.0	70.9	170 400
		62.0	52.3	69.3	161 300
		64.0	50.5	67.6	152 800
		66.0	48.7	65.8	144 900
		68.0	46.8	63.9	137 500
		70.0	44.9	61.9	130 600
		72.0	42.9	59.7	124 200
		74.0	40.8	57.4	118 100
		76.0	38.7	54.8	112 300
		78.0	36.4	52.1	106 900
		80.0	33.9	49.1	101 800
		82.0	31.3	45.8	97 000

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9 2 · 4	3 0 3	24.4	81.4	94.5	709 700
		26.0	80.4	94.2	637 600
		28.0	79.1	93.8	564 600
		30.0	77.8	93.3	505 300
		32.0	76.6	92.8	456 000
		34.0	75.3	92.3	414 300
		36.0	74.0	91.7	378 700
		38.0	72.7	91.1	347 900
		40.0	71.4	90.4	321 000
		42.0	70.0	89.6	297 200
		44.0	68.7	88.8	276 100
		46.0	67.3	87.9	257 300
		48.0	66.0	87.0	240 300
		50.0	64.6	86.1	225 000
		52.0	63.2	85.0	211 100
		54.0	61.8	83.9	198 400
		56.0	60.4	82.8	186 800
		58.0	58.9	81.5	176 100
		60.0	57.4	80.2	166 200
		62.0	55.9	78.8	157 000
		64.0	54.4	77.4	148 500
		66.0	52.8	75.8	140 700
		68.0	51.2	74.2	133 300
		70.0	49.6	72.5	126 400
		72.0	47.9	70.6	119 900
1 0 0 · 0	3 2 8	74.0	46.2	68.7	113 800
		76.0	44.4	66.6	108 100
		78.0	42.5	64.4	102 700
		80.0	40.6	62.1	97 600
		82.0	38.6	59.5	92 800
		84.0	36.5	56.8	88 200
		86.0	34.3	53.9	83 900
		88.0	31.9	50.6	79 700
		90.0	29.4	47.1	75 800
		25.9	81.2	102.0	638 300
		26.0	81.1	102.0	634 900
		28.0	80.0	101.6	561 600
		30.0	78.8	101.2	502 300
		32.0	77.6	100.7	453 000
		34.0	76.4	100.2	411 300
		36.0	75.2	99.6	375 600
		38.0	74.0	99.1	344 800
		40.0	72.8	98.4	317 800
		42.0	71.6	97.7	294 100
		44.0	70.4	97.0	273 000
		46.0	69.2	96.2	254 200
		48.0	67.9	95.4	237 200
		50.0	66.7	94.5	221 900
		52.0	65.4	93.6	208 000
		54.0	64.1	92.6	195 300
		56.0	62.8	91.5	183 600
		58.0	61.5	90.4	172 900
		60.0	60.2	89.2	163 000
		62.0	58.9	88.0	153 900
		64.0	57.5	86.7	145 400
		66.0	56.1	85.3	137 500

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	130 200
		70.0	53.3	82.4	123 200
		72.0	51.8	80.8	116 800
		74.0	50.3	79.1	110 700
		76.0	48.8	77.3	105 000
		78.0	47.2	75.4	99 600
		80.0	45.6	73.5	94 500
		82.0	43.9	71.4	89 700
		84.0	42.2	69.1	85 100
		86.0	40.4	66.8	80 800
		88.0	38.6	64.2	76 700
		90.0	36.6	61.5	72 700
1 0 7 · 6	3 5 3	92.0	34.6	58.6	69 000
		94.0	32.5	55.4	65 400
		96.0	30.2	52.0	62 000
		25.9	81.8	109.7	634 400
		26.0	81.8	109.7	630 900
		28.0	80.7	109.3	557 600
		30.0	79.6	108.9	498 200
		32.0	78.5	108.5	448 900
		34.0	77.4	108.1	407 200
		36.0	76.3	107.5	371 500
		38.0	75.2	107.0	340 700
		40.0	74.1	106.4	313 700
		42.0	73.0	105.8	289 900
		44.0	71.9	105.1	268 800
		46.0	70.7	104.4	250 000
		48.0	69.6	103.6	233 000
		50.0	68.4	102.8	217 700
		52.0	67.3	101.9	203 700
		54.0	66.1	101.0	191 100
		56.0	64.9	100.1	179 400
		58.0	63.7	99.1	168 700
		60.0	62.5	98.0	158 800
		62.0	61.3	96.9	149 700
		64.0	60.1	95.7	141 200
		66.0	58.8	94.5	133 300
		68.0	57.6	93.2	125 900
		70.0	56.3	91.8	119 000
		72.0	55.0	90.4	112 500
		74.0	53.6	88.9	106 500
		76.0	52.3	87.3	100 700
		78.0	50.9	85.7	95 300
		80.0	49.5	84.0	90 200
		82.0	48.0	82.1	85 400
		84.0	46.6	80.2	80 900
		86.0	45.1	78.2	76 500
		88.0	43.5	76.1	72 400
		90.0	41.9	73.8	68 500
		92.0	40.2	71.4	64 800
		94.0	38.5	68.9	61 200
		96.0	36.7	66.2	57 800
		98.0	34.9	63.3	54 500
		100.0	32.9	60.2	51 400
		102.0	30.8	56.9	48 500

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1 1 5 · 2	3 7 8	27.4	81.6	117.2	563 100*
		28.0	81.3	117.1	548 200*
		30.0	80.3	116.7	495 400
		32.0	79.3	116.3	445 700
		34.0	78.3	115.9	404 000
		36.0	77.2	115.4	368 300
		38.0	76.2	114.9	337 400
		40.0	75.2	114.4	310 500
		42.0	74.1	113.8	286 700
		44.0	73.1	113.1	265 600
		46.0	72.0	112.5	246 700
		48.0	71.0	111.8	229 700
		50.0	69.9	111.0	214 400
		52.0	68.9	110.2	200 500
		54.0	67.8	109.4	187 800
		56.0	66.7	108.5	176 100
		58.0	65.6	107.6	165 400
		60.0	64.5	106.6	155 500
		62.0	63.4	105.6	146 400
		64.0	62.3	104.5	137 900
		66.0	61.1	103.4	130 000
		68.0	60.0	102.2	122 600
		70.0	58.8	101.0	115 700
		72.0	57.6	99.7	109 200
		74.0	56.4	98.3	103 200
		76.0	55.2	96.9	97 400
		78.0	54.0	95.4	92 100
		80.0	52.7	93.9	87 000
		82.0	51.4	92.3	82 200
		84.0	50.1	90.6	77 600
		86.0	48.8	88.8	73 300
		88.0	47.4	87.0	69 100
		90.0	46.0	85.0	65 200
		92.0	44.6	83.0	61 500
		94.0	43.2	80.8	57 900
		96.0	41.6	78.5	54 500
		98.0	40.1	76.1	51 300
		100.0	38.5	73.6	48 200
1 2 2 · 8	4 0 3	29.0	81.4	124.6	495 000*
		30.0	80.9	124.5	472 100*
		32.0	79.9	124.1	432 300*
		34.0	79.0	123.7	398 300*
		36.0	78.0	123.2	364 500
		38.0	77.1	122.8	333 300
		40.0	76.1	122.3	306 300
		42.0	75.2	121.7	282 500
		44.0	74.2	121.1	261 400
		46.0	73.2	120.5	242 500
		48.0	72.2	119.8	225 600
		50.0	71.2	119.1	210 200
		52.0	70.2	118.4	196 300
		54.0	69.2	117.6	183 600
		56.0	68.2	116.8	171 900
		58.0	67.2	116.0	161 200
		60.0	66.2	115.1	151 300
		62.0	65.2	114.1	142 100
		64.0	64.1	113.1	133 700
		66.0	63.1	112.1	125 700
		68.0	62.0	111.0	118 400
		70.0	60.9	109.9	111 500
		72.0	59.9	108.7	105 000
		74.0	58.8	107.5	98 900
		76.0	57.7	106.2	93 200
		78.0	56.5	104.8	87 800

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	80.0	55.4	103.4	82 700
		82.0	54.2	102.0	77 900
		84.0	53.1	100.4	73 300
		86.0	51.9	98.9	69 000
		88.0	50.7	97.2	64 900
		90.0	49.4	95.5	61 000
		92.0	48.2	93.7	57 300
		94.0	46.9	91.8	53 700
		96.0	45.6	89.8	50 300
		98.0	44.2	87.7	47 100