



LIFTCRANE CAPACITIES

**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
915 170 kg AUXILIARY COUNTERWEIGHT
360 DEGREE RATING**

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADIUS 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 RADIUS 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 RADIUS 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 KI LOGRAMS
4 6 - 6	1 5 3	17.1	82.0	49.4	1 300 000*
		18.0	80.8	49.2	1 300 000*
		19.0	79.6	49.0	1 242 800*
		20.0	78.3	48.7	1 160 700
		22.0	75.8	48.2	979 400
		24.0	73.2	47.5	847 500
		26.0	70.6	46.8	745 600
		28.0	67.9	45.9	664 000
		30.0	65.1	45.0	597 700
		32.0	62.3	43.9	542 600
		34.0	59.5	42.6	495 900
		36.0	56.5	41.3	456 100
		38.0	53.4	39.7	421 600
		40.0	50.1	38.0	391 400
		42.0	46.7	36.1	364 800
		44.0	43.1	33.9	341 200
46.0	39.2	31.4	317 800*		
48.0	34.8	28.5	287 200*		
50.0	29.9	25.0	258 000*		

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RAD. METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KI LOGRAMS
5 4 - 3	1 7 8	19.8	80.2	56.6	1 173 800
		20.0	80.0	56.6	1 155 900
		22.0	77.8	56.1	975 800
		24.0	75.6	55.5	843 800
		26.0	73.4	54.9	741 800
		28.0	71.2	54.2	660 300
		30.0	68.9	53.4	593 900
		32.0	66.6	52.5	538 700
		34.0	64.2	51.5	492 100
		36.0	61.8	50.3	452 200
		38.0	59.3	49.1	417 800
		40.0	56.8	47.8	387 600
		42.0	54.1	46.3	361 000
		44.0	51.4	44.6	337 400
		46.0	48.5	42.8	316 300
		48.0	45.6	40.8	297 300
50.0	42.4	38.6	280 100		
52.0	39.0	36.1	264 500		
54.0	35.3	33.2	250 200		
56.0	31.2	29.9	232 700*		

MANITOWOC ENGINEERING CO.

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



M-1200

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BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RAD. METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KI LOGRAMS
61.9	203	19.8	81.4	64.4	1 171 100
		20.0	81.2	64.3	1 153 300
		22.0	79.3	63.9	973 000
		24.0	77.4	63.4	841 000
		26.0	75.5	62.9	739 000
		28.0	73.6	62.3	657 400
		30.0	71.6	61.6	591 000
		32.0	69.6	60.8	535 900
		34.0	67.6	59.9	489 300
		36.0	65.6	59.0	449 400
		38.0	63.5	58.0	414 900
		40.0	61.4	56.8	384 700
		42.0	59.2	55.6	358 100
		44.0	57.0	54.3	334 600
		46.0	54.7	52.8	313 500
		48.0	52.3	51.2	294 400
		50.0	49.9	49.5	277 300
		52.0	47.3	47.6	261 700
		54.0	44.7	45.5	247 500
		56.0	41.9	43.3	234 400
58.0	38.9	40.7	222 400		
60.0	35.7	37.9	211 300		
62.0	32.2	34.7	201 000		
64.0	28.3	31.0	189 700*		
69.5	228	21.3	81.1	71.8	1 022 700
		22.0	80.5	71.7	972 900
		24.0	78.8	71.3	837 100
		26.0	77.1	70.8	735 000
		28.0	75.4	70.2	653 400
		30.0	73.7	69.6	587 000
		32.0	72.0	68.9	531 800
		34.0	70.2	68.2	485 100
		36.0	68.4	67.4	445 200
		38.0	66.6	66.5	410 700
		40.0	64.8	65.5	380 600
		42.0	62.9	64.4	354 000
		44.0	61.0	63.3	330 400
		46.0	59.1	62.1	309 300
		48.0	57.1	60.7	290 300
		50.0	55.1	59.3	273 100
		52.0	53.0	57.8	257 500
		54.0	50.9	56.1	243 300
		56.0	48.6	54.3	230 200
		58.0	46.3	52.4	218 300
60.0	43.9	50.3	207 200		
62.0	41.4	48.0	196 900		
64.0	38.8	45.4	187 400		
66.0	36.0	42.7	178 500		
68.0	32.9	39.5	170 200		
70.0	29.6	36.0	162 500		

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RAD. METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KI LOGRAMS
77.1	253	21.3	82.0	79.6	1 018 900
		22.0	81.5	79.5	969 000
		24.0	80.0	79.1	833 100
		26.0	78.4	78.6	731 000
		28.0	76.9	78.1	649 400
		30.0	75.4	77.6	582 900
		32.0	73.8	77.0	527 700
		34.0	72.3	76.3	481 000
		36.0	70.7	75.6	441 100
		38.0	69.1	74.8	406 600
		40.0	67.5	73.9	376 400
		42.0	65.8	73.0	349 800
		44.0	64.2	72.0	326 200
		46.0	62.5	70.9	305 100
		48.0	60.8	69.8	286 100
		50.0	59.0	68.6	268 900
		52.0	57.2	67.2	253 300
		54.0	55.4	65.8	239 100
		56.0	53.6	64.3	226 100
		58.0	51.6	62.7	214 000
60.0	49.7	61.0	203 000		
62.0	47.7	59.1	192 700		
64.0	45.6	57.1	183 200		
66.0	43.4	55.0	174 300		
68.0	41.1	52.7	166 100		
70.0	38.7	50.1	158 300		
72.0	36.2	47.4	151 100		
74.0	33.5	44.3	144 200		
76.0	30.5	40.9	137 800		
84.7	278	22.9	81.7	87.0	901 700
		24.0	80.9	86.8	832 400
		26.0	79.5	86.4	728 200
		28.0	78.1	86.0	646 500
		30.0	76.7	85.5	580 000
		32.0	75.3	84.9	524 800
		34.0	73.9	84.3	478 100
		36.0	72.5	83.7	438 200
		38.0	71.0	83.0	403 700
		40.0	69.6	82.2	373 500
		42.0	68.1	81.4	346 900
		44.0	66.7	80.5	323 300
		46.0	65.2	79.5	302 200
		48.0	63.6	78.5	283 200
		50.0	62.1	77.4	266 000
		52.0	60.5	76.3	250 400
		54.0	59.0	75.0	236 100
		56.0	57.3	73.7	223 100
		58.0	55.7	72.3	211 100
		60.0	54.0	70.9	200 100
62.0	52.3	69.3	189 800		
64.0	50.5	67.6	180 300		
66.0	48.7	65.8	171 400		
68.0	46.8	63.9	163 200		
70.0	44.9	61.9	155 500		
72.0	42.9	59.7	148 200		
74.0	40.8	57.4	141 400		
76.0	38.7	54.8	135 000		
78.0	36.4	52.1	128 900		
80.0	33.9	49.1	123 200		
82.0	31.3	45.8	117 800		

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BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RAD. METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KI LOGRAMS
92.4	303	24.4	81.4	94.5	789 800*
		26.0	80.4	94.2	722 300*
		28.0	79.1	93.8	642 800
		30.0	77.8	93.3	576 000
		32.0	76.6	92.8	520 700
		34.0	75.3	92.3	474 000
		36.0	74.0	91.7	434 000
		38.0	72.7	91.1	399 500
		40.0	71.4	90.4	369 300
		42.0	70.0	89.6	342 700
		44.0	68.7	88.8	319 000
		46.0	67.3	87.9	297 900
		48.0	66.0	87.0	278 900
		50.0	64.6	86.1	261 800
		52.0	63.2	85.0	246 200
		54.0	61.8	83.9	231 900
		56.0	60.4	82.8	218 900
		58.0	58.9	81.5	206 900
		60.0	57.4	80.2	195 800
		62.0	55.9	78.8	185 600
		64.0	54.4	77.4	176 100
		66.0	52.8	75.8	167 200
		68.0	51.2	74.2	159 000
		70.0	49.6	72.5	151 200
		72.0	47.9	70.6	144 000
		74.0	46.2	68.7	137 100
		76.0	44.4	66.6	130 700
		78.0	42.5	64.4	124 700
80.0	40.6	62.1	119 000		
82.0	38.6	59.5	113 600		
84.0	36.5	56.8	108 500		
86.0	34.3	53.9	103 600		
88.0	31.9	50.6	99 000		
90.0	29.4	47.1	94 600		
100.0	328	25.9	81.2	102.0	683 000*
		26.0	81.1	102.0	679 900*
		28.0	80.0	101.6	614 900*
		30.0	78.8	101.2	561 600*
		32.0	77.6	100.7	516 900*
		34.0	76.4	100.2	471 000
		36.0	75.2	99.6	431 000
		38.0	74.0	99.1	396 400
		40.0	72.8	98.4	366 200
		42.0	71.6	97.7	339 600
		44.0	70.4	97.0	316 000
		46.0	69.2	96.2	294 800
		48.0	67.9	95.4	275 800
		50.0	66.7	94.5	258 600
		52.0	65.4	93.6	243 100
		54.0	64.1	92.6	228 800
		56.0	62.8	91.5	215 800
		58.0	61.5	90.4	203 700
		60.0	60.2	89.2	192 700
		62.0	58.9	88.0	182 400
		64.0	57.5	86.7	172 900
		66.0	56.1	85.3	164 100

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RAD. METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KI LOGRAMS
100.0	328	68.0	54.7	83.9	155 800
		70.0	53.3	82.4	148 100
		72.0	51.8	80.8	140 800
		74.0	50.3	79.1	134 000
		76.0	48.8	77.3	127 600
		78.0	47.2	75.4	121 600
		80.0	45.6	73.5	115 900
		82.0	43.9	71.4	110 500
		84.0	42.2	69.1	105 400
		86.0	40.4	66.8	100 500
		88.0	38.6	64.2	95 900
		90.0	36.6	61.5	91 500
		92.0	34.6	58.6	87 300
		94.0	32.5	55.4	83 300
96.0	30.2	52.0	79 500		
107.6	353	25.9	81.8	109.7	643 300*
		26.0	81.8	109.7	640 400*
		28.0	80.7	109.3	578 500*
		30.0	79.6	108.9	527 900*
		32.0	78.5	108.5	485 400*
		34.0	77.4	108.1	449 100*
		36.0	76.3	107.5	417 700*
		38.0	75.2	107.0	390 100*
		40.0	74.1	106.4	362 200
		42.0	73.0	105.8	335 400
		44.0	71.9	105.1	311 800
		46.0	70.7	104.4	290 600
		48.0	69.6	103.6	271 600
		50.0	68.4	102.8	254 400
		52.0	67.3	101.9	238 800
		54.0	66.1	101.0	224 600
		56.0	64.9	100.1	211 500
		58.0	63.7	99.1	199 500
		60.0	62.5	98.0	188 500
		62.0	61.3	96.9	178 200
		64.0	60.1	95.7	168 700
		66.0	58.8	94.5	159 800
		68.0	57.6	93.2	151 600
		70.0	56.3	91.8	143 800
		72.0	55.0	90.4	136 600
		74.0	53.6	88.9	129 800
		76.0	52.3	87.3	123 400
		78.0	50.9	85.7	117 300
80.0	49.5	84.0	111 600		
82.0	48.0	82.1	106 200		
84.0	46.6	80.2	101 100		
86.0	45.1	78.2	96 300		
88.0	43.5	76.1	91 600		
90.0	41.9	73.8	87 300		
92.0	40.2	71.4	83 100		
94.0	38.5	68.9	79 100		
96.0	36.7	66.2	75 300		
98.0	34.9	63.3	71 600		
100.0	32.9	60.2	68 100		
102.0	30.8	56.9	64 800		
104.0	28.6	53.2	61 500		

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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	498 900*
		32.0	79.3	116.3	458 200*
		34.0	78.3	115.9	423 500*
		36.0	77.2	115.4	393 600*
		38.0	76.2	114.9	367 300*
		40.0	75.2	114.4	344 100*
		42.0	74.1	113.8	323 400*
		44.0	73.1	113.1	304 800*
		46.0	72.0	112.5	287 600*
		48.0	71.0	111.8	268 400
		50.0	69.9	111.0	251 200
		52.0	68.9	110.2	235 600
		54.0	67.8	109.4	221 300
		56.0	66.7	108.5	208 200
		58.0	65.6	107.6	196 300
		60.0	64.5	106.6	185 200
		62.0	63.4	105.6	174 900
		64.0	62.3	104.5	165 400
		66.0	61.1	103.4	156 500
		68.0	60.0	102.2	148 200
		70.0	58.8	101.0	140 500
		72.0	57.6	99.7	133 300
		74.0	56.4	98.3	126 500
		76.0	55.2	96.9	120 100
		78.0	54.0	95.4	114 000
		80.0	52.7	93.9	108 300
		82.0	51.4	92.3	102 900
		84.0	50.1	90.6	97 800
		86.0	48.8	88.8	93 000
		88.0	47.4	87.0	88 400
		90.0	46.0	85.0	84 000
		92.0	44.6	83.0	79 800
		94.0	43.2	80.8	75 800
		96.0	41.6	78.5	72 000
98.0	40.1	76.1	68 400		
100.0	38.5	73.6	64 900		
102.0	36.8	70.9	61 600		
104.0	35.1	68.1	58 400		
106.0	33.3	65.0	55 300		
108.0	31.4	61.7	52 400		
110.0	29.3	58.2	49 300		
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	398 900*
		36.0	78.0	123.2	370 000*
		38.0	77.1	122.8	344 900*
		40.0	76.1	122.3	322 700*
		42.0	75.2	121.7	302 900*
		44.0	74.2	121.1	285 100*
		46.0	73.2	120.5	269 000*
		48.0	72.2	119.8	254 400*
		50.0	71.2	119.1	240 900*
		52.0	70.2	118.4	228 600*
		54.0	69.2	117.6	216 800*
		56.0	68.2	116.8	204 100
		58.0	67.2	116.0	192 000
		60.0	66.2	115.1	180 900
		62.0	65.2	114.1	170 700
64.0	64.1	113.1	161 100		
66.0	63.1	112.1	152 300		
68.0	62.0	111.0	144 000		
70.0	60.9	109.9	136 300		
72.0	59.9	108.7	129 000		
74.0	58.8	107.5	122 200		

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RAD. METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KI LOGRAMS
1 2 2 · 8	4 0 3	76.0	57.7	106.2	115 800
		78.0	56.5	104.8	109 800
		80.0	55.4	103.4	104 100
		82.0	54.2	102.0	98 700
		84.0	53.1	100.4	93 600
		86.0	51.9	98.9	88 700
		88.0	50.7	97.2	84 100
		90.0	49.4	95.5	79 700
		92.0	48.2	93.7	75 500
		94.0	46.9	91.8	71 600
		96.0	45.6	89.8	67 800
		98.0	44.2	87.7	64 200
		100.0	42.8	85.5	60 700
		102.0	41.4	83.2	57 300
		104.0	40.0	80.8	54 200
		106.0	38.5	78.3	51 100
		108.0	36.9	75.6	48 100