

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-1200

BOOM NO. 75A

MAST NO. 75/49A

18.3m RINGER ATTACHMENT ON SCREW JACK PEDESTALS

23 590 kg CRANE COUNTERWEIGHT

476 090 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. 173398 AND WIRE ROPE SPECIFICATION CHART NO. 7683-C. 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 DERRECIATION.

MACHINE MAY BE OPERATED IN WINDS UP TO 13 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 TO APPROXIMATELY 75 DEGREE BOOM ANGLE WHEN WIND EXCEEDS 13 m/s. 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, 1 219 mm TREADS, 8 534 mm RETRACTABLE GANTRY, 45.7m NO. 75/49A MAST, 20 PART BOOM HOIST REEVING, STRAP BOOM PENDANTS, 23 590 kg CRANE COUNTERWEIGHT AND 476 090 kg AUXILIARY COUNTERWEIGHT.

MAXIMUM BOOM LENGTH LIFTED UNASSISTED = 121.9m	DEDUCT 2 450 kg FROM CAPACITIES WHEN UPPER BOOM POINT IS ATTACHED
LOAD BLOCKS ON GROUND AT START.	

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

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KILOGRAMS
4 5 7	1 5 0	16.8	80.7	48.5	816 400*
		18.0	79.1	48.2	806 200
		20.0	76.5	47.8	680 700
		22.0	73.9	47.2	576 000
		24.0	71.3	46.5	498 300
		26.0	68.6	45.8	438 300
		28.0	65.9	44.9	390 200
		30.0	63.1	43.9	351 100
		32.0	60.2	42.8	318 700
		34.0	57.2	41.5	291 200
		36.0	54.1	40.1	267 700
		38.0	50.9	38.5	247 400
		40.0	47.6	36.7	229 700
		42.0	44.0	34.7	214 000
		44.0	40.2	32.4	200 100
		46.0	36.0	29.7	187 700
		48.0	31.4	26.6	176 500

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KILOGRAMS
5 3 3	1 7 5	16.8	82.0	56.2	720 200*
		18.0	80.7	56.0	720 200*
		20.0	78.5	55.6	683 300
		22.0	76.3	55.1	574 100
		24.0	74.0	54.6	496 400
		26.0	71.8	53.9	436 400
		28.0	69.5	53.2	388 300
		30.0	67.2	52.3	349 200
		32.0	64.8	51.4	316 800
		34.0	62.4	50.4	289 300
		36.0	59.9	49.2	265 800
		38.0	57.4	48.0	245 500
		40.0	54.8	46.6	227 800
		42.0	52.1	45.1	212 100
		44.0	49.2	43.4	198 300
		46.0	46.3	41.5	185 800
		48.0	43.2	39.4	174 700
		50.0	39.9	37.1	164 600
		52.0	36.3	34.5	155 400
		54.0	32.5	31.4	147 000
		56.0	28.1	27.9	139 300

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BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KILOGRAMS
6 1 · 0	2 0 0	18.3	81.6	63.7	655 300*
		20.0	79.9	63.4	647 400*
		22.0	78.0	63.0	576 600
		24.0	76.1	62.5	494 300
		26.0	74.1	61.9	434 200
		28.0	72.2	61.3	386 200
		30.0	70.2	60.6	347 100
		32.0	68.1	59.8	314 600
		34.0	66.1	58.9	287 100
		36.0	64.0	57.9	263 700
		38.0	61.9	56.9	243 400
		40.0	59.7	55.7	225 600
		42.0	57.5	54.5	210 000
		44.0	55.2	53.1	196 100
		46.0	52.9	51.6	183 700
		48.0	50.4	50.0	172 500
		50.0	47.9	48.2	162 500
		52.0	45.3	46.3	153 300
		54.0	42.6	44.1	144 900
		56.0	39.7	41.8	137 200
6 8 · 6	2 2 5	58.0	36.6	39.2	130 200
		60.0	33.2	36.2	123 700
		62.0	29.5	32.8	117 600
		19.8	81.2	71.1	579 600*
		20.0	81.1	71.1	578 900*
		22.0	79.4	70.7	560 300*
		24.0	77.7	70.3	495 200
		26.0	75.9	69.8	432 500
		28.0	74.2	69.3	384 400
		30.0	72.5	68.6	345 300
		32.0	70.7	67.9	312 900
		34.0	68.9	67.2	285 400
		36.0	67.1	66.3	261 900
		38.0	65.3	65.4	241 600
		40.0	63.4	64.4	223 800
		42.0	61.5	63.4	208 200
		44.0	59.6	62.2	194 300
		46.0	57.6	61.0	181 900
		48.0	55.6	59.6	170 800
		50.0	53.5	58.1	160 700
		52.0	51.4	56.6	151 500
		54.0	49.2	54.9	143 100
		56.0	46.9	53.0	135 500
		58.0	44.5	51.0	128 400
		60.0	42.1	48.9	121 900
		62.0	39.5	46.5	115 900
		64.0	36.7	43.9	110 300
		66.0	33.8	41.0	105 100
		68.0	30.6	37.7	100 200

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KILOGRAMS
7 6 · 2	2 5 0	21.3	81.0	78.6	513 500*
		22.0	80.5	78.5	511 200*
		24.0	78.9	78.1	487 900
		26.0	77.4	77.7	430 300
		28.0	75.8	77.2	382 200
		30.0	74.3	76.6	343 100
		32.0	72.7	76.0	310 600
		34.0	71.1	75.3	283 200
		36.0	69.5	74.6	259 700
		38.0	67.9	73.8	239 400
		40.0	66.2	72.9	221 700
		42.0	64.6	72.0	206 000
		44.0	62.9	71.0	192 100
		46.0	61.2	69.9	179 700
		48.0	59.4	68.7	168 500
		50.0	57.7	67.4	158 500
		52.0	55.9	66.1	149 300
		54.0	54.0	64.7	140 900
		56.0	52.1	63.1	133 300
		58.0	50.2	61.5	126 200
8 3 · 8	2 7 5	60.0	48.2	59.7	119 700
		62.0	46.1	57.8	113 700
		64.0	43.9	55.8	108 100
		66.0	41.7	53.6	102 900
		68.0	39.3	51.2	98 100
		70.0	36.9	48.6	93 500
		72.0	34.3	45.7	89 300
		74.0	31.4	42.5	85 300
		76.0	28.4	39.0	81 500
		21.3	81.8	86.3	461 000*
		22.0	81.3	86.2	459 200*
		24.0	79.9	85.9	453 700*
		26.0	78.5	85.5	429 300
		28.0	77.1	85.0	380 600
		30.0	75.7	84.5	341 400
		32.0	74.3	84.0	309 000
		34.0	72.9	83.4	281 500
		36.0	71.4	82.7	258 000
		38.0	70.0	82.0	237 800
		40.0	68.5	81.2	220 000
		42.0	67.0	80.4	204 300
		44.0	65.5	79.5	190 500
		46.0	64.0	78.5	178 000
		48.0	62.5	77.5	166 900
		50.0	60.9	76.4	156 800
		52.0	59.3	75.2	147 600
		54.0	57.7	73.9	139 300
		56.0	56.1	72.6	131 600
		58.0	54.4	71.2	124 600
		60.0	52.7	69.7	118 100
		62.0	50.9	68.1	112 100
		64.0	49.1	66.4	106 500
		66.0	47.3	64.5	101 200
		68.0	45.4	62.6	96 400
		70.0	43.4	60.5	91 900
		72.0	41.4	58.3	87 600
		74.0	39.2	55.9	83 600
		76.0	37.0	53.3	79 900
		78.0	34.6	50.4	76 300
		80.0	32.1	47.3	73 000
		82.0	29.4	43.9	69 800

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BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KILOGRAMS	BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KILOGRAMS
9 1 · 4	3 0 0	22.9	81.5	93.8	407 900*	9 9 · 1	3 2 5	64.0	56.4	85.6	102 400
		24.0	80.8	93.6	405 000*			66.0	55.0	84.2	97 200
		26.0	79.5	93.3	395 700*			68.0	53.6	82.7	92 300
		28.0	78.2	92.8	379 900*			70.0	52.1	81.2	87 800
		30.0	76.9	92.4	339 500			72.0	50.6	79.6	83 500
		32.0	75.7	91.9	306 700			74.0	49.1	77.9	79 600
		34.0	74.4	91.3	279 200			76.0	47.6	76.1	75 800
		36.0	73.0	90.7	255 800			78.0	46.0	74.1	72 300
		38.0	71.7	90.1	235 500			80.0	44.3	72.1	68 900
		40.0	70.4	89.4	217 700			82.0	42.6	70.0	65 800
		42.0	69.1	88.6	202 100			84.0	40.9	67.7	62 700
		44.0	67.7	87.8	188 200			86.0	39.0	65.3	59 900
		46.0	66.3	86.9	175 800			88.0	37.2	62.7	57 200
		48.0	65.0	86.0	164 600			90.0	35.2	59.9	54 600
		50.0	63.6	85.0	154 500			92.0	33.1	56.9	52 200
		52.0	62.1	84.0	145 400			94.0	30.9	53.6	49 900
		54.0	60.7	82.8	137 000			96.0	28.5	50.0	47 600
		56.0	59.3	81.7	129 300	1 0 6 · 7	3 5 0	24.4	81.9	109.0	315 400*
		58.0	57.8	80.4	122 300			26.0	81.0	108.7	309 600*
		60.0	56.3	79.1	115 800			28.0	79.9	108.4	302 200*
		62.0	54.7	77.7	109 800			30.0	78.8	108.0	294 600*
		64.0	53.2	76.2	104 200			32.0	77.7	107.6	287 000*
		66.0	51.6	74.6	99 000			34.0	76.6	107.1	276 600*
		68.0	50.0	73.0	94 100			36.0	75.5	106.6	251 700
		70.0	48.3	71.2	89 600			38.0	74.4	106.0	231 400
		72.0	46.6	69.3	85 400			40.0	73.3	105.4	213 600
		74.0	44.8	67.4	81 300			42.0	72.2	104.8	198 000
		76.0	43.0	65.2	77 600			44.0	71.0	104.1	184 100
		78.0	41.1	63.0	74 000			46.0	69.9	103.4	171 700
		80.0	39.1	60.6	70 700			48.0	68.7	102.6	160 500
		82.0	37.1	58.0	67 500			50.0	67.6	101.8	150 400
		84.0	34.9	55.2	64 600			52.0	66.4	100.9	141 300
		86.0	32.6	52.1	61 700			54.0	65.2	100.0	132 900
		88.0	30.2	48.8	59 000			56.0	64.0	99.0	125 300
9 9 · 1	3 2 5	24.4	81.3	101.3	355 800*			58.0	62.8	98.0	118 200
		26.0	80.3	101.0	349 000*			60.0	61.6	97.0	111 700
		28.0	79.2	100.6	340 400*			62.0	60.4	95.8	105 700
		30.0	78.0	100.2	331 400			64.0	59.1	94.6	100 100
		32.0	76.8	99.7	305 000			66.0	57.9	93.4	94 900
		34.0	75.6	99.2	277 500			68.0	56.6	92.1	90 100
		36.0	74.4	98.7	254 000			70.0	55.3	90.7	85 500
		38.0	73.2	98.1	233 700			72.0	53.9	89.3	81 300
		40.0	72.0	97.4	215 900			74.0	52.6	87.7	77 300
		42.0	70.7	96.7	200 300			76.0	51.2	86.2	73 500
		44.0	69.5	96.0	186 400			78.0	49.8	84.5	70 000
		46.0	68.3	95.2	174 000			80.0	48.4	82.7	66 600
		48.0	67.0	94.4	162 800			82.0	46.9	80.9	63 500
		50.0	65.7	93.5	152 700			84.0	45.4	78.9	60 500
		52.0	64.5	92.5	143 600			86.0	43.9	76.9	57 600
		54.0	63.2	91.5	135 200			88.0	42.3	74.7	54 900
		56.0	61.9	90.5	127 500			90.0	40.7	72.4	52 400
		58.0	60.5	89.3	120 500			92.0	39.0	70.0	49 900
		60.0	59.2	88.2	114 000			94.0	37.2	67.4	47 600
		62.0	57.8	86.9	108 000			96.0	35.4	64.6	45 400

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BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KILOGRAMS
1 1 4 · 3	3 7 5	25.9	81.7	116.5	273 700*
		26.0	81.6	116.5	273 500*
		28.0	80.6	116.1	267 200*
		30.0	79.6	115.8	260 700*
		32.0	78.6	115.4	254 000*
		34.0	77.5	114.9	246 800*
		36.0	76.5	114.5	239 400*
		38.0	75.5	113.9	229 300
		40.0	74.4	113.4	211 800
		42.0	73.4	112.8	196 100
		44.0	72.3	112.2	182 200
		46.0	71.3	111.5	169 800
		48.0	70.2	110.8	158 700
		50.0	69.1	110.0	148 600
		52.0	68.1	109.2	139 400
		54.0	67.0	108.4	131 000
		56.0	65.9	107.5	123 400
		58.0	64.8	106.5	116 300
		60.0	63.7	105.6	109 800
		62.0	62.5	104.5	103 800
		64.0	61.4	103.4	98 200
		66.0	60.2	102.3	93 000
		68.0	59.1	101.1	88 100
		70.0	57.9	99.9	83 600
		72.0	56.7	98.6	79 400
		74.0	55.5	97.2	75 400
		76.0	54.2	95.8	71 600
		78.0	53.0	94.3	68 100
		80.0	51.7	92.7	64 800
		82.0	50.4	91.1	61 600
		84.0	49.1	89.4	58 600
		86.0	47.8	87.6	55 700
		88.0	46.4	85.7	53 000
		90.0	45.0	83.7	50 500
		92.0	43.5	81.6	48 000
1 2 1 · 9	4 0 0	27.4	81.5	123.9	234 100*
		28.0	81.2	123.9	233 400*
		30.0	80.3	123.5	229 300*
		32.0	79.3	123.1	222 600*
		34.0	78.3	122.7	215 700*
		36.0	77.4	122.3	208 600*
		38.0	76.4	121.8	201 600*
		40.0	75.4	121.3	194 500*
		42.0	74.5	120.7	187 700*
		44.0	73.5	120.1	179 600
		46.0	72.5	119.5	167 500
		48.0	71.5	118.9	156 300
		50.0	70.5	118.2	146 300
		52.0	69.5	117.4	137 100
		54.0	68.5	116.6	128 700
		56.0	67.5	115.8	121 100
		58.0	66.5	114.9	114 000
		60.0	65.4	114.0	107 500
		62.0	64.4	113.1	101 500
		64.0	63.3	112.1	95 900
		66.0	62.3	111.0	90 700
		68.0	61.2	109.9	85 800
		70.0	60.1	108.8	81 300

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KILOGRAMS
1 2 1 · 9	4 0 0	72.0	59.0	107.6	77 100
		74.0	57.9	106.4	73 100
		76.0	56.8	105.1	69 300
		78.0	55.7	103.7	65 800
		80.0	54.5	102.3	62 400
		82.0	53.3	100.8	59 300
		84.0	52.2	99.3	56 200
		86.0	50.9	97.7	53 400
		88.0	49.7	96.0	50 700
		90.0	48.5	94.2	48 200