

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 OR NO. 75A

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 OR NO. 177315 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 MAST WITH 20 PART OR 32 PART BOOM HOIST REEVING OR NO. 75A MAST WITH 32 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.	

JIB AND ALL JIB HARDWARE 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. 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	803 200*
		20.0	76.5	47.8	682 900
		22.0	73.9	47.2	577 500
		24.0	71.3	46.5	499 600
		26.0	68.6	45.8	439 400
		28.0	65.9	44.9	391 300
		30.0	63.1	43.9	352 100
		32.0	60.2	42.8	319 600
		34.0	57.2	41.5	292 000
		36.0	54.1	40.1	268 500
		38.0	50.9	38.5	248 100
		40.0	47.6	36.7	230 300
		42.0	44.0	34.7	214 700
		44.0	40.2	32.4	200 700
		46.0	36.0	29.7	188 200
		48.0	31.4	26.6	177 100

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	685 200
		22.0	76.3	55.1	575 600
		24.0	74.0	54.6	497 700
		26.0	71.8	53.9	437 500
		28.0	69.5	53.2	389 400
		30.0	67.2	52.3	350 200
		32.0	64.8	51.4	317 700
		34.0	62.4	50.4	290 100
		36.0	59.9	49.2	266 600
		38.0	57.4	48.0	246 200
		40.0	54.8	46.6	228 400
		42.0	52.1	45.1	212 800
		44.0	49.2	43.4	198 900
		46.0	46.3	41.5	186 400
		48.0	43.2	39.4	175 200
		50.0	39.9	37.1	165 100
		52.0	36.3	34.5	155 900
		54.0	32.5	31.4	147 500
		56.0	28.1	27.9	139 800

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6 1 · 0	2 0 0	18.3	81.6	63.7	655 300*
		20.0	79.9	63.4	647 500
		22.0	78.0	63.0	578 400
		24.0	76.1	62.5	495 600
		26.0	74.1	61.9	435 400
		28.0	72.2	61.3	387 300
		30.0	70.2	60.6	348 000
		32.0	68.1	59.8	315 500
		34.0	66.1	58.9	288 000
		36.0	64.0	57.9	264 400
		38.0	61.9	56.9	244 100
		40.0	59.7	55.7	226 300
		42.0	57.5	54.5	210 600
		44.0	55.2	53.1	196 700
		46.0	52.9	51.6	184 300
		48.0	50.4	50.0	173 100
		50.0	47.9	48.2	162 900
		52.0	45.3	46.3	153 800
		54.0	42.6	44.1	145 400
		56.0	39.7	41.8	137 700
6 8 · 6	2 2 5	58.0	36.6	39.2	130 600
		60.0	33.2	36.2	124 100
		62.0	29.5	32.8	118 000
		19.8	81.2	71.1	579 600*
		20.0	81.1	71.1	578 900*
		22.0	79.4	70.7	560 800
		24.0	77.7	70.3	496 700
		26.0	75.9	69.8	433 600
		28.0	74.2	69.3	385 500
		30.0	72.5	68.6	346 300
		32.0	70.7	67.9	313 700
		34.0	68.9	67.2	286 200
		36.0	67.1	66.3	262 600
		38.0	65.3	65.4	242 300
		40.0	63.4	64.4	224 500
		42.0	61.5	63.4	208 800
		44.0	59.6	62.2	194 900
		46.0	57.6	61.0	182 500
		48.0	55.6	59.6	171 300
		50.0	53.5	58.1	161 200
		52.0	51.4	56.6	152 000
		54.0	49.2	54.9	143 600
		56.0	46.9	53.0	135 900
		58.0	44.5	51.0	128 800
		60.0	42.1	48.9	122 300
		62.0	39.5	46.5	116 300
		64.0	36.7	43.9	110 700
		66.0	33.8	41.0	105 400
		68.0	30.6	37.7	100 600

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	488 700
		26.0	77.4	77.7	431 500
		28.0	75.8	77.2	383 300
		30.0	74.3	76.6	344 100
		32.0	72.7	76.0	311 500
		34.0	71.1	75.3	284 000
		36.0	69.5	74.6	260 500
		38.0	67.9	73.8	240 100
		40.0	66.2	72.9	222 300
		42.0	64.6	72.0	206 600
		44.0	62.9	71.0	192 700
		46.0	61.2	69.9	180 300
		48.0	59.4	68.7	169 100
		50.0	57.7	67.4	159 000
		52.0	55.9	66.1	149 800
		54.0	54.0	64.7	141 400
		56.0	52.1	63.1	133 700
		58.0	50.2	61.5	126 700
8 3 · 8	2 7 5	60.0	48.2	59.7	120 100
		62.0	46.1	57.8	114 100
		64.0	43.9	55.8	108 500
		66.0	41.7	53.6	103 300
		68.0	39.3	51.2	98 400
		70.0	36.9	48.6	93 800
		72.0	34.3	45.7	89 600
		74.0	31.4	42.5	85 600
		76.0	28.4	39.0	81 800
		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	430 500
		28.0	77.1	85.0	381 600
		30.0	75.7	84.5	342 400
		32.0	74.3	84.0	309 900
		34.0	72.9	83.4	282 300
		36.0	71.4	82.7	258 800
		38.0	70.0	82.0	238 400
		40.0	68.5	81.2	220 700
		42.0	67.0	80.4	205 000
		44.0	65.5	79.5	191 100
		46.0	64.0	78.5	178 600
		48.0	62.5	77.5	167 400
		50.0	60.9	76.4	157 300
		52.0	59.3	75.2	148 100
		54.0	57.7	73.9	139 700
		56.0	56.1	72.6	132 100
		58.0	54.4	71.2	125 000
		60.0	52.7	69.7	118 500
		62.0	50.9	68.1	112 400
		64.0	49.1	66.4	106 800
		66.0	47.3	64.5	101 600
		68.0	45.4	62.6	96 700
		70.0	43.4	60.5	92 200
		72.0	41.4	58.3	87 900
		74.0	39.2	55.9	83 900
		76.0	37.0	53.3	80 200
		78.0	34.6	50.4	76 600
		80.0	32.1	47.3	73 200
		82.0	29.4	43.9	70 100

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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	102 800
		24.0	80.8	93.6	405 000*			66.0	55.0	84.2	97 600
		26.0	79.5	93.3	395 700*			68.0	53.6	82.7	92 700
		28.0	78.2	92.8	380 200			70.0	52.1	81.2	88 100
		30.0	76.9	92.4	340 600			72.0	50.6	79.6	83 900
		32.0	75.7	91.9	307 600			74.0	49.1	77.9	79 900
		34.0	74.4	91.3	280 100			76.0	47.6	76.1	76 100
		36.0	73.0	90.7	256 500			78.0	46.0	74.1	72 500
		38.0	71.7	90.1	236 200			80.0	44.3	72.1	69 200
		40.0	70.4	89.4	218 400			82.0	42.6	70.0	66 000
		42.0	69.1	88.6	202 700			84.0	40.9	67.7	63 100
		44.0	67.7	87.8	188 800			86.0	39.0	65.3	60 200
		46.0	66.3	86.9	176 400			88.0	37.2	62.7	57 500
		48.0	65.0	86.0	165 100			90.0	35.2	59.9	54 900
		50.0	63.6	85.0	155 000			92.0	33.1	56.9	52 400
		52.0	62.1	84.0	145 800	1 0 6 · 7	3 5 0	94.0	30.9	53.6	50 100
		54.0	60.7	82.8	137 500			96.0	28.5	50.0	47 900
		56.0	59.3	81.7	129 800			24.4	81.9	109.0	315 400*
		58.0	57.8	80.4	122 700			26.0	81.0	108.7	309 600*
		60.0	56.3	79.1	116 200			28.0	79.9	108.4	302 200*
		62.0	54.7	77.7	110 200			30.0	78.8	108.0	294 600*
		64.0	53.2	76.2	104 600			32.0	77.7	107.6	287 000*
		66.0	51.6	74.6	99 400			34.0	76.6	107.1	276 800
		68.0	50.0	73.0	94 500			36.0	75.5	106.6	252 600
		70.0	48.3	71.2	89 900			38.0	74.4	106.0	232 100
		72.0	46.6	69.3	85 700			40.0	73.3	105.4	214 300
		74.0	44.8	67.4	81 700			42.0	72.2	104.8	198 600
		76.0	43.0	65.2	77 900			44.0	71.0	104.1	184 700
		78.0	41.1	63.0	74 400			46.0	69.9	103.4	172 200
		80.0	39.1	60.6	71 000			48.0	68.7	102.6	161 100
		82.0	37.1	58.0	67 800			50.0	67.6	101.8	150 900
		84.0	34.9	55.2	64 800			52.0	66.4	100.9	141 700
		86.0	32.6	52.1	62 000			54.0	65.2	100.0	133 400
		88.0	30.2	48.8	59 300			56.0	64.0	99.0	125 700
9 9 · 1	3 2 5	24.4	81.3	101.3	355 800*			58.0	62.8	98.0	118 600
		26.0	80.3	101.0	349 000*			60.0	61.6	97.0	112 100
		28.0	79.2	100.6	340 400*			62.0	60.4	95.8	106 100
		30.0	78.0	100.2	331 600*			64.0	59.1	94.6	100 500
		32.0	76.8	99.7	305 800			66.0	57.9	93.4	95 200
		34.0	75.6	99.2	278 300			68.0	56.6	92.1	90 400
		36.0	74.4	98.7	254 700			70.0	55.3	90.7	85 900
		38.0	73.2	98.1	234 400			72.0	53.9	89.3	81 600
		40.0	72.0	97.4	216 600			74.0	52.6	87.7	77 600
		42.0	70.7	96.7	200 900			76.0	51.2	86.2	73 800
		44.0	69.5	96.0	187 000			78.0	49.8	84.5	70 300
		46.0	68.3	95.2	174 600			80.0	48.4	82.7	66 900
		48.0	67.0	94.4	163 400			82.0	46.9	80.9	63 700
		50.0	65.7	93.5	153 200			84.0	45.4	78.9	60 700
		52.0	64.5	92.5	144 100			86.0	43.9	76.9	57 900
		54.0	63.2	91.5	135 700			88.0	42.3	74.7	55 200
		56.0	61.9	90.5	128 000			90.0	40.7	72.4	52 600
		58.0	60.5	89.3	120 900			92.0	39.0	70.0	50 200
		60.0	59.2	88.2	114 400			94.0	37.2	67.4	47 800
		62.0	57.8	86.9	108 400			96.0	35.4	64.6	45 600

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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	229 900
		40.0	74.4	113.4	212 500
		42.0	73.4	112.8	196 800
		44.0	72.3	112.2	182 800
		46.0	71.3	111.5	170 400
		48.0	70.2	110.8	159 200
		50.0	69.1	110.0	149 100
		52.0	68.1	109.2	139 900
		54.0	67.0	108.4	131 500
		56.0	65.9	107.5	123 800
		58.0	64.8	106.5	116 700
		60.0	63.7	105.6	110 200
		62.0	62.5	104.5	104 200
		64.0	61.4	103.4	98 600
		66.0	60.2	102.3	93 400
		68.0	59.1	101.1	88 500
		70.0	57.9	99.9	84 000
		72.0	56.7	98.6	79 700
		74.0	55.5	97.2	75 700
		76.0	54.2	95.8	71 900
		78.0	53.0	94.3	68 400
		80.0	51.7	92.7	65 000
		82.0	50.4	91.1	61 900
		84.0	49.1	89.4	58 800
		86.0	47.8	87.6	56 000
		88.0	46.4	85.7	53 300
		90.0	45.0	83.7	50 700
		92.0	43.5	81.6	48 300
		94.0	42.0	79.4	45 900
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	180 100
		46.0	72.5	119.5	168 100
		48.0	71.5	118.9	156 900
		50.0	70.5	118.2	146 800
		52.0	69.5	117.4	137 600
		54.0	68.5	116.6	129 200
		56.0	67.5	115.8	121 500
		58.0	66.5	114.9	114 400
		60.0	65.4	114.0	107 900
		62.0	64.4	113.1	101 900
		64.0	63.3	112.1	96 300
		66.0	62.3	111.0	91 100
		68.0	61.2	109.9	86 200
		70.0	60.1	108.8	81 600

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	77 400
		74.0	57.9	106.4	73 400
		76.0	56.8	105.1	69 600
		78.0	55.7	103.7	66 100
		80.0	54.5	102.3	62 700
		82.0	53.3	100.8	59 500
		84.0	52.2	99.3	56 600
		86.0	50.9	97.7	53 700
		88.0	49.7	96.0	51 000
		90.0	48.5	94.2	48 400