

MANITOWOC ENGINEERING CO.

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



M-1200

LIFT CRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

BOOM NO. 72/75A

MAST NO. 75

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 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 (*).

WEIGHT OF ALL LOAD BLOCKS, HOOKS, SLINGS, HOIST LINES, ETC., BENEATH BOOM SHEAVES, IS CONSIDERED PART OF THE 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. 174950 AND WIRE ROPE SPECIFICATION CHART NO. 7683-B. 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 IN WINDS UP TO 13 m/s PROVIDED CRANE OPERATOR JUDGMENT IS USED TO ALLOW FOR WIND EFFECT ON THE 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, 32 PART BOOM HOIST REEVING, STRAP BOOM PENDANTS, 23 590 kg CRANE COUNTERWEIGHT AND 915 170 kg AUXILIARY COUNTERWEIGHT.

MAXIMUM BOOM LENGTH
LIFTED UNASSISTED = 115.2m

LOAD BLOCK 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
9 2 · 4	3 0 3	22.9	81.6	94.7	800 000*
		24.0	80.9	94.6	800 000*
		26.0	79.6	94.2	735 500
		28.0	78.4	93.8	653 400
		30.0	77.1	93.3	586 900
		32.0	75.8	92.8	531 700
		34.0	74.5	92.3	485 000
		36.0	73.2	91.7	445 200
		38.0	71.9	91.0	410 700
		40.0	70.6	90.3	380 600
		42.0	69.3	89.6	354 000
		44.0	67.9	88.8	330 500
		46.0	66.6	87.9	309 400
		48.0	65.2	87.0	290 400
		50.0	63.8	86.0	273 300
		52.0	62.4	85.0	257 800
		54.0	61.0	83.9	243 600
BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	CAPACITY KILOGRAMS
9 2 · 4	3 0 3	56.0	59.6	82.7	230 600
		58.0	58.1	81.5	218 700
		60.0	56.7	80.2	207 600
		62.0	55.1	78.8	197 400
		64.0	53.6	77.4	188 000
		66.0	52.0	75.8	179 200
		68.0	50.4	74.2	170 900
		70.0	48.8	72.4	163 200
		72.0	47.1	70.6	156 000
		74.0	45.4	68.7	149 300
		76.0	43.6	66.6	142 900
		78.0	41.7	64.4	136 900
		80.0	39.8	62.0	131 200
		82.0	37.8	59.5	125 900
		84.0	35.7	56.8	120 800
		86.0	33.5	53.8	116 000
		88.0	31.2	50.6	111 400

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1 0 0 · 0	3 2 8	24.4	81.3	102.2	631 900*
		26.0	80.4	101.9	600 700*
		28.0	79.3	101.6	565 500*
		30.0	78.1	101.1	533 700*
		32.0	76.9	100.7	504 600*
		34.0	75.7	100.2	477 400*
		36.0	74.5	99.6	445 200
		38.0	73.3	99.0	409 500
		40.0	72.1	98.4	379 400
		42.0	70.9	97.7	352 800
		44.0	69.7	97.0	329 300
		46.0	68.5	96.2	308 300
		48.0	67.2	95.4	289 300
		50.0	66.0	94.5	272 200
		52.0	64.7	93.5	256 600
		54.0	63.4	92.5	242 400
		56.0	62.1	91.5	229 400
		58.0	60.8	90.4	217 500
		60.0	59.5	89.2	206 500
		62.0	58.2	88.0	196 300
		64.0	56.8	86.7	186 800
		66.0	55.4	85.3	178 000
		68.0	54.0	83.9	169 800
		70.0	52.5	82.4	162 100
		72.0	51.1	80.8	154 900
		74.0	49.6	79.1	148 100
		76.0	48.0	77.3	141 800
		78.0	46.5	75.4	135 800
		80.0	44.9	73.4	130 100
		82.0	43.2	71.3	124 700
		84.0	41.5	69.1	119 700
		86.0	39.7	66.7	114 800
		88.0	37.8	64.2	110 300
		90.0	35.9	61.5	104 800*
		92.0	33.9	58.6	96 800*
		94.0	31.7	55.4	89 000*
		96.0	29.5	52.0	81 200*
1 0 7 · 6	3 5 3	24.4	81.3	102.2	631 900*
		26.0	80.4	101.9	600 700*
		28.0	79.3	101.6	565 500*
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