

MANITOWOC ENGINEERING CO.

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



LIFTCRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 2

BOOM NO. 22E WITH OPEN THROAT TOP
81 240 kg CRANE COUNTERWEIGHT
19 960 kg CARBODY 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 (*). CAPACITIES ARE NOT SHOWN FOR BOOM POSITIONS WHICH, WITHOUT LOAD, PROVIDE LESS THAN REQUIRED ANSI B30.5 BACKWARD STABILITY.

UPPER BOOM POINT CAPACITY FOR LIFTCRANE SERVICE WITH SINGLE PART WHIP LINE OR COMBINATION OF TWO SINGLE PART LINES IS 13 380 kg. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR MAIN BOOM CAPACITY.

WEIGHT OF JIB, ALL LOAD BLOCKS, HOOKS, WEIGHT BALL, SLINGS, HOIST LINES, ETC., BENEATH BOOM AND JIB POINT 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 GANTRY UP. REFER TO BOOM RIGGING NO. 176519 AND WIRE ROPE SPECIFICATION CHART NO. 7773-A. CRANE OPERATOR JUDGMENT MUST BE USED TO ALLOW FOR DYNAMIC LOAD EFFECTS OF SWINGING, HOISTING OR LOWERING, TRAVEL, WIND CONDITIONS, AS WELL AS ADVERSE OPERATING CONDITIONS AND PHYSICAL MACHINE DEPRECIATION. REFER TO OPERATORS MANUAL FOR OPERATING GUIDELINES.

MACHINE TO TRAVEL ON A FIRM, LEVEL AND UNIFORMLY SUPPORTING SURFACE AND BOOM WITHIN BOOM ANGLE RANGE SHOWN IN CAPACITY CHART. REFER TO MAXIMUM ALLOWABLE TRAVEL SPECIFICATION CHART NO. 7771-A.

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 8 585 mm EXTENDIBLE CRAWLERS, 1 219 mm TREADS, 3 124 mm RETRACTABLE GANTRY, 9 144 mm LIVE MAST, 20 PART BOOM HOIST REEVING, FOUR 35 mm BOOM PENDANTS, 81 240 kg CRANE COUNTERWEIGHT AND 19 960 kg CARBODY COUNTERWEIGHT.

DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
JIB LENGTH	JIB NO. 123
9.1m	1 130 kg
12.2m	1 410 kg
15.2m	1 680 kg
18.3m	2 000 kg

DEDUCT 1 810 kg FROM CAPACITIES WHEN BOOM BUTT IS EQUIPPED WITH AUXILIARY DRUM.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED WITHOUT AUXILIARY DRUM IN BOOM BUTT							
OVER FRONT OF BLOCKED CRAWLERS		OVER REAR OF BLOCKED CRAWLERS		OVER SIDE OF EXTENDED CRAWLERS		OVER SIDE OF RETRACTED CRAWLERS	
BOOM LENGTH	JIB NO. 123	BOOM LENGTH	JIB NO. 123	BOOM LENGTH	JIB NO. 123	BOOM LENGTH	JIB NO. 123
(a) 88.4m	---	(a) 88.4m	---	(a) 79.2m	---	73.2m	---
85.3m	---	(a) 85.3m	---	76.2m	---	70.1m	9.1m
82.3m	9.1m	82.3m	---	73.2m	15.2m	67.1m	18.3m
79.2m	18.3m	79.2m	15.2m	70.1m	18.3m		
		76.2m	18.3m				

LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START. (a) UPPER BOOM POINT CANNOT BE USED ON 88.4m BOOM AND CANNOT BE LIFTED OVER REAR OF BLOCKED CRAWLERS ON 85.3m BOOM OR SIDE OF EXTENDED CRAWLERS ON 79.2m BOOM. WIRE ROPE GUIDE ASSEMBLY 179061 UPPER AND MIDDLE SHEAVES AND SHAFTS OR ASSEMBLY 92671 UPPER SHEAVE AND SHAFT MUST BE REMOVED ON 88.4m BOOM WHEN LIFTED OVER REAR OF BLOCKED CRAWLERS.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED WITH AUXILIARY DRUM IN BOOM BUTT							
OVER FRONT OF BLOCKED CRAWLERS		OVER REAR OF BLOCKED CRAWLERS		OVER SIDE OF EXTENDED CRAWLERS		OVER SIDE OF RETRACTED CRAWLERS	
BOOM LENGTH	JIB NO. 123	BOOM LENGTH	JIB NO. 123	BOOM LENGTH	JIB NO. 123	BOOM LENGTH	JIB NO. 123
(a) 85.3m	---	(a) 85.3m	---	76.2m	---	70.1m	---
82.3m	---	82.3m	---	73.2m	12.2m	67.1m	15.2m
79.2m	15.2m	79.2m	12.2m	70.1m	18.3m	64.0m	18.3m
76.2m	18.3m	76.2m	18.3m				

LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START. (a) UPPER BOOM POINT CANNOT BE USED ON 85.3m BOOM.

CONSULT JIB CHART FOR JIB CAPACITIES. UPPER BOOM POINT CANNOT BE USED WHEN JIB IS ATTACHED.

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19 960 kg CARBODY COUNTERWEIGHT
360 DEGREE RATING

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY CRAWLERS RETRACTED KILOGRAMS	BOOM CAPACITY CRAWLERS EXTENDED KILOGRAMS
21.3	70	4.6	81.8	23.6		208 600*
		5.0	80.6	23.5		192 600*
		5.5	79.3	23.4		176 100*
		6.0	77.9	23.3		162 200*
		7.0	75.1	23.1		139 900*
		8.0	72.3	22.8		122 800*
		9.0	69.5	22.4		109 200*
		10.0	66.6	22.0		95 500
		11.0	63.6	21.6		82 700
		12.0	60.6	21.0		72 800
		13.0	57.5	20.4		65 000
		14.0	54.2	19.8		58 500
		15.0	50.6	19.0		53 200
16.0	47.3	18.1	41 900	48 600		
18.0	39.4	16.0	35 600	41 400		
20.0	30.0	13.1	30 900	35 900		
24.4	80	5.2	81.4	26.6		186 000*
		5.5	80.6	26.5		175 800*
		6.0	79.4	26.4		161 900*
		7.0	77.0	26.2		139 600*
		8.0	74.6	26.0		122 500*
		9.0	72.1	25.7		108 900*
		10.0	69.7	25.3		95 600
		11.0	67.1	24.9		82 700
		12.0	64.6	24.5		72 800
		13.0	61.9	24.0		64 900
		14.0	59.2	23.4		58 500
		15.0	56.5	22.8	45 500	53 100
		16.0	53.6	22.1	41 700	48 600
18.0	47.5	20.4	35 600	41 300		
20.0	40.7	18.4	30 800	35 800		
22.0	32.9	15.7	27 000	31 400		
24.0	22.8	11.9	23 900	27 800		
27.4	90	5.5	81.7	29.6		171 400*
		6.0	80.6	29.5		162 100*
		7.0	78.5	29.3		139 300*
		8.0	76.3	29.1		122 200*
		9.0	74.2	28.9		108 600*
		10.0	72.0	28.5		95 500
		11.0	69.8	28.2		82 600
		12.0	67.5	27.8		72 700
		13.0	65.3	27.4		64 900
		14.0	62.9	26.9	49 800	58 400
		15.0	60.6	26.4	45 400	53 000
		16.0	58.1	25.8	41 600	48 500
		18.0	53.1	24.4	35 400	41 200
20.0	47.7	22.7	30 700	35 700		
22.0	41.7	20.7	26 900	31 300		
24.0	35.0	18.2	23 800	27 700		
26.0	26.8	14.8	21 300	24 700		
30.5	100	5.8	82.0	32.6		165 100*
		6.0	81.6	32.6		160 900*
		7.0	79.7	32.4		139 000*
		8.0	77.7	32.2		121 900*
		9.0	75.8	32.0		109 400*
		10.0	73.9	31.7		95 600
		11.0	71.9	31.4		82 600
		12.0	69.9	31.1		72 700
		13.0	67.9	30.7	55 100	64 800
		14.0	65.8	30.3	49 800	58 400
		15.0	63.8	29.8	45 300	53 000
		16.0	61.6	29.3	41 500	48 400
		18.0	57.3	28.1	35 300	41 200
20.0	52.7	26.7	30 600	35 600		
22.0	47.8	25.0	26 900	31 200		
24.0	42.5	23.0	23 700	27 600		
26.0	36.6	20.6	21 200	24 700		
28.0	29.7	17.6	19 000	22 200		
30.0	20.9	13.3	17 100	20 000		

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY CRAWLERS RETRACTED KILOGRAMS	BOOM CAPACITY CRAWLERS EXTENDED KILOGRAMS
33.5	110	6.7	81.1	35.6		142 600*
		7.0	80.6	35.5		137 800*
		8.0	78.9	35.4		121 600*
		9.0	77.1	35.1		108 000*
		10.0	75.4	34.9		95 600
		11.0	73.6	34.6		82 500
		12.0	71.8	34.3		72 600
		13.0	70.0	34.0	55 000	64 700
		14.0	68.2	33.6	49 600	58 200
		15.0	66.3	33.2	45 100	52 900
		16.0	64.4	32.7	41 300	48 300
		18.0	60.6	31.7	35 200	41 000
		20.0	56.6	30.4	30 400	35 400
22.0	52.4	29.0	26 600	31 000		
24.0	47.9	27.3	23 600	27 400		
26.0	43.1	25.4	21 000	24 500		
28.0	37.8	23.0	18 800	22 000		
30.0	31.9	20.2	17 000	19 900		
32.0	24.6	16.4	15 400	18 100		
36.6	120	6.7	81.9	38.7		138 700*
		7.0	81.4	38.6		135 700*
		8.0	79.8	38.5		121 300*
		9.0	78.2	38.3		107 700*
		10.0	76.6	38.0		95 500
		11.0	75.0	37.8		82 400
		12.0	73.4	37.5	61 300	72 500
		13.0	71.7	37.2	54 800	64 600
		14.0	70.1	36.8	49 400	58 100
		15.0	68.4	36.5	45 000	52 700
		16.0	66.7	36.0	41 100	48 200
		18.0	63.2	35.1	35 000	40 800
		20.0	59.7	34.0	30 300	35 300
22.0	56.0	32.8	26 500	30 900		
24.0	52.1	31.3	23 400	27 300		
26.0	48.0	29.6	20 900	24 400		
28.0	43.8	27.7	18 700	21 900		
30.0	38.9	25.4	16 900	19 800		
32.0	33.6	22.7	15 300	17 900		
34.0	27.4	19.3	13 900	16 300		
36.0	19.5	14.7	12 600	14 900		
39.6	130	7.3	81.6	41.7		125 700*
		8.0	80.6	41.6		121 400*
		9.0	79.1	41.4		107 600*
		10.0	77.6	41.2		95 600
		11.0	76.2	40.9	69 200	82 400
		12.0	74.7	40.7	61 200	72 500
		13.0	73.2	40.4	54 700	64 500
		14.0	71.6	40.1	49 400	58 100
		15.0	70.1	39.7	45 000	52 700
		16.0	68.6	39.3	41 100	48 100
		18.0	65.4	38.5	35 000	40 800
		20.0	62.2	37.5	30 200	35 300
		22.0	58.9	36.4	26 500	30 800
24.0	55.4	35.1	23 400	27 300		
26.0	51.9	33.6	20 800	24 300		
28.0	48.1	31.9	18 700	21 800		
30.0	44.1	30.0	16 800	19 700		
32.0	39.7	27.8	15 200	17 900		
34.0	35.0	25.2	13 800	16 300		
36.0	29.5	22.0	12 600	14 900		
38.0	23.0	17.9	11 500	13 600		

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BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY CRAWLERS RETRACTED KILOGRAMS	BOOM CAPACITY CRAWLERS EXTENDED KILOGRAMS	BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY CRAWLERS RETRACTED KILOGRAMS	BOOM CAPACITY CRAWLERS EXTENDED KILOGRAMS
427	140	7.9	81.4	44.6		118 000*	488	160	26.0	57.1	43.4	18 100	21 300
		8.0	81.3	44.6		117 400*			30.0	54.3	42.1	16 200	19 200
		9.0	79.9	44.5		107 600*			32.0	51.3	40.5	14 600	17 300
		10.0	78.5	44.3		95 400			34.0	48.2	38.8	13 200	15 700
		11.0	77.2	44.1	69 100	82 200			36.0	45.0	37.0	12 000	14 400
		12.0	75.8	43.8	61 100	72 300			38.0	41.6	34.8	10 900	13 100
		13.0	74.4	43.6	54 600	64 400			40.0	37.9	32.4	9 900	12 000
		14.0	73.0	43.3	49 300	57 900			42.0	33.9	29.7	9 100	11 000
		15.0	71.6	42.9	44 800	52 500			44.0	29.4	26.4	8 300	10 100
		16.0	70.2	42.6	41 000	48 000			46.0	24.2	22.5	7 500	9 300
		18.0	67.9	41.8	34 800	40 700			9.1	81.5	53.7	89 900	94 400*
		20.0	64.3	40.9	30 100	35 100			10.0	80.6	53.6	78 700	81 900
		22.0	61.3	39.9	26 300	30 700			11.0	79.5	53.4	68 600	71 900
		24.0	58.2	38.7	23 200	27 100			12.0	78.3	53.2	60 600	64 000
		26.0	55.0	37.4	20 700	24 200			13.0	77.2	53.0	54 100	57 500
		28.0	51.7	35.9	18 500	21 700			14.0	76.1	52.8	48 800	52 100
30.0	48.1	34.2	16 700	19 600	15.0	74.9	52.5	44 300	47 500				
32.0	44.4	32.3	15 100	17 700	16.0	73.8	52.2	40 500	42 200				
34.0	40.4	30.1	13 700	16 200	18.0	71.5	51.6	34 300	37 100				
36.0	36.1	27.6	12 400	14 800	20.0	69.1	50.9	29 500	31 600				
38.0	31.3	24.6	11 300	13 500	22.0	66.7	50.1	25 800	27 000				
40.0	25.6	20.9	10 300	12 400	24.0	64.3	49.1	22 700	23 600				
42.0	18.5	16.0	9 400	11 400	26.0	61.8	48.1	20 100	21 100				
					28.0	59.3	47.0	18 000	19 000				
					30.0	56.7	45.7	16 100	17 200				
					32.0	54.0	44.4	14 500	15 600				
					34.0	51.2	42.8	13 100	14 200				
					36.0	48.3	41.1	11 900	13 000				
					38.0	45.3	39.3	10 800	11 900				
					40.0	42.1	37.2	9 800	10 900				
					42.0	38.6	34.8	8 900	10 000				
					44.0	34.9	32.1	8 100	9 100				
					46.0	30.9	29.0	7 400	8 400				
					48.0	26.2	25.4	6 700	7 700				
					50.0	20.7	20.8	6 100	7 000				
518	170	9.1	82.0	47.7		109 000*	549	180	22.0	68.1	53.4	25 500	30 000
		8.0	81.9	47.7		108 600*			24.0	65.8	52.5	22 500	26 400
		9.0	80.6	47.6		105 100*			26.0	63.5	51.6	19 900	23 500
		10.0	79.3	47.4		95 300			28.0	61.1	50.5	17 800	21 000
		11.0	78.0	47.2	68 900	82 200			30.0	58.7	49.4	15 900	18 900
		12.0	76.8	47.0	60 900	72 200			32.0	56.3	48.1	14 300	17 000
		13.0	75.5	46.7	54 400	64 300			34.0	53.7	46.7	12 900	15 400
		14.0	74.2	46.4	49 100	57 800			36.0	51.1	45.1	11 700	14 000
		15.0	72.9	46.1	44 600	52 400			38.0	48.3	43.4	10 600	12 800
		16.0	71.5	45.8	40 800	47 800			40.0	45.5	41.6	9 600	11 700
		18.0	68.9	45.1	34 600	40 500			42.0	42.5	39.5	8 800	10 700
		20.0	66.2	44.3	29 800	34 900			44.0	39.3	37.2	8 000	9 800
		22.0	63.4	43.3	26 100	30 500			46.0	35.8	34.6	7 200	9 000
		24.0	60.6	42.3	23 000	26 900			48.0	32.1	31.6	6 600	8 200
		26.0	57.6	41.1	20 400	24 000			50.0	27.9	28.2	6 000	7 500
		28.0	54.6	39.7	18 300	21 500			52.0	23.1	24.0	5 400	6 900
30.0	51.5	38.2	16 400	19 400									
32.0	48.2	36.5	14 800	17 500									
34.0	44.7	34.6	13 400	15 900									
36.0	41.1	32.5	12 200	14 500									
38.0	37.1	30.0	11 100	13 300									
40.0	32.7	27.2	10 100	12 200									
42.0	27.7	23.7	9 200	11 100									
44.0	21.7	19.4	8 400	10 200									
488	160	8.5	81.7	50.7		102 000*	549	180	22.0	68.1	53.4	25 500	30 000
		9.0	81.2	50.7		100 400*			24.0	65.8	52.5	22 500	26 400
		10.0	80.0	50.5		95 400			26.0	63.5	51.6	19 900	23 500
		11.0	78.8	50.3	79 000	82 000			28.0	61.1	50.5	17 800	21 000
		12.0	77.6	50.1	69 700	72 000			30.0	58.7	49.4	15 900	18 900
		13.0	76.4	49.9	60 700	64 100			32.0	56.3	48.1	14 300	17 000
		14.0	75.2	49.6	54 200	57 600			34.0	53.7	46.7	12 900	15 400
		15.0	74.0	49.3	48 900	52 200			36.0	51.1	45.1	11 700	14 000
		16.0	72.7	49.0	44 400	47 600			38.0	48.3	43.4	10 600	12 800
		18.0	70.3	48.4	40 600	43 300			40.0	45.5	41.6	9 600	11 700
		20.0	67.7	47.6	34 400	37 300			42.0	42.5	39.5	8 800	10 700
		22.0	65.2	46.7	29 700	33 700			44.0	39.3	37.2	8 000	9 800
		24.0	62.6	45.7	25 900	30 300			46.0	35.8	34.6	7 200	9 000
		26.0	59.9	44.6	22 800	26 700			48.0	32.1	31.6	6 600	8 200
					20 300	23 800			50.0	27.9	28.2	6 000	7 500
									52.0	23.1	24.0	5 400	6 900

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BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY CRAWLERS RETRACTED KILOGRAMS	BOOM CAPACITY CRAWLERS EXTENDED KILOGRAMS
57.9	19.0	9.8	81.8	59.8	81 400	82 100*
		10.0	81.6	59.7	78 600	81 500*
		11.0	80.6	59.6	79 300	79 300
		12.0	79.6	59.4	60 300	71 900
		13.0	78.6	59.2	53 800	63 700
		14.0	77.6	59.0	48 400	57 200
		15.0	76.5	58.8	43 900	51 700
		16.0	75.5	58.5	40 100	47 100
		18.0	73.5	58.0	33 900	39 800
		20.0	71.4	57.3	29 100	34 200
		22.0	69.3	56.6	25 300	29 800
		24.0	67.2	55.8	22 300	26 200
		25.0	65.0	54.9	19 700	23 200
		28.0	62.8	54.0	17 500	20 700
		30.0	60.5	52.9	15 700	18 600
		32.0	58.2	51.7	14 100	16 800
		34.0	55.9	50.4	12 700	15 200
		36.0	53.5	49.0	11 500	13 800
38.0	51.0	47.4	10 400	12 600		
40.0	48.4	45.7	9 400	11 500		
42.0	45.7	43.9	8 500	10 500		
44.0	42.8	41.8	7 700	9 600		
46.0	39.8	39.5	7 000	8 700		
48.0	36.6	37.0	6 300	8 000		
50.0	33.2	34.1	5 700	7 300		
52.0	29.4	30.8	5 200	6 700		
54.0	25.0	27.0	4 600	6 100		
56.0	19.8	22.1	4 100	5 500		
61.0	20.0	10.4	81.7	62.8	74 300	76 200*
		11.0	81.1	62.7	68 100	74 900*
		12.0	80.1	62.5	60 100	71 400
		13.0	79.1	62.3	53 600	63 500
		14.0	78.2	62.1	48 200	57 000
		15.0	77.2	61.9	43 700	51 500
		16.0	76.3	61.7	39 800	47 000
		18.0	74.3	61.2	33 700	39 600
		20.0	72.4	60.6	28 900	34 000
		22.0	70.4	59.9	25 100	29 600
		24.0	68.4	59.1	22 000	26 000
		26.0	66.3	58.3	19 500	23 000
		28.0	64.3	57.4	17 300	20 600
		30.0	62.2	56.4	15 500	18 400
		32.0	60.0	55.3	13 900	16 600
		34.0	57.8	54.0	12 500	15 000
		36.0	55.6	52.7	11 300	13 600
		38.0	53.2	51.3	10 200	12 300
40.0	50.9	49.7	9 200	11 300		
42.0	48.4	48.0	8 300	10 200		
44.0	45.8	46.2	7 500	9 300		
46.0	43.1	44.1	6 800	8 600		
48.0	40.3	41.9	6 100	7 800		
50.0	37.3	39.4	5 500	7 100		
52.0	34.1	36.6	5 000	6 500		
54.0	30.6	33.5	4 400	5 900		
56.0	26.7	29.8	3 900	5 400		
58.0	22.1	25.4	3 500	4 800		
64.0	21.0	11.0	81.5	65.8	68 200	71 200*
		12.0	80.6	65.6	59 900	69 500*
		13.0	79.7	65.4	53 400	63 400
		14.0	78.8	65.2	48 000	56 800
		15.0	77.8	65.0	43 600	51 400
		16.0	76.9	64.8	39 700	46 800
		18.0	75.1	64.3	33 500	39 400
		20.0	73.2	63.7	28 800	33 900
		22.0	71.3	63.1	25 000	29 400
		24.0	69.4	62.4	21 900	25 600
		26.0	67.5	61.6	19 300	22 900
		28.0	65.6	60.7	17 100	20 400
		30.0	63.6	59.8	15 300	18 300
		32.0	61.6	58.7	13 700	16 400
		34.0	59.5	57.6	12 300	14 800
		36.0	57.4	56.4	11 100	13 400
		38.0	55.3	55.1	10 000	12 200
		40.0	53.1	53.6	9 000	11 100

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY CRAWLERS RETRACTED KILOGRAMS	BOOM CAPACITY CRAWLERS EXTENDED KILOGRAMS
64.0	21.0	42.0	50.8	52.0	8 200	10 100
		44.0	48.4	50.3	7 400	9 200
		46.0	46.0	48.5	6 700	8 400
		48.0	43.4	46.5	6 000	7 700
		50.0	40.8	44.3	5 400	6 900
		52.0	37.9	41.8	4 800	6 300
		54.0	34.9	39.1	4 300	5 800
		56.0	31.7	36.1	3 800	5 200
		58.0	28.1	32.6	3 400	4 700
		60.0	24.0	28.5	3 000	4 200
		62.0	19.1	23.4	2 500	3 800
		67.1	22.0	11.0	81.9	68.8
12.0	81.0			68.7	59 800	65 800*
13.0	80.1			68.5	53 200	63 600
14.0	79.3			68.3	47 900	56 600
15.0	78.4			68.1	43 400	51 200
16.0	77.5			67.9	39 500	46 600
18.0	75.8			67.5	33 300	39 200
20.0	74.0			66.9	28 600	33 600
22.0	72.2			66.3	24 800	29 200
24.0	70.4			65.6	21 700	25 500
26.0	68.6			64.9	19 100	22 700
28.0	66.7			64.1	17 000	20 200
30.0	64.9			63.2	15 100	18 100
32.0	63.0			62.2	13 500	16 200
34.0	61.0			61.1	12 100	14 600
36.0	59.1			60.0	10 900	13 200
38.0	57.0			58.7	9 800	12 000
40.0	55.0			57.4	8 800	10 900
42.0	52.9	55.9	7 900	9 900		
44.0	50.7	54.3	7 100	9 000		
46.0	48.5	52.6	6 400	8 200		
48.0	46.1	50.8	5 800	7 400		
50.0	43.7	48.8	5 200	6 800		
52.0	41.2	46.6	4 600	6 100		
54.0	38.5	44.2	4 100	5 500		
56.0	35.7	41.6	3 600	5 000		
58.0	32.6	38.6	3 200	4 500		
60.0	29.3	35.3	2 700	4 000		
62.0	25.6	31.4	2 400	3 600		
64.0	21.3	26.8	2 000	3 200		
70.1	23.0	11.6	81.8	71.8	61 200*	61 200*
		12.0	81.4	71.8	59 200	60 900*
		13.0	80.6	71.6	53 100	59 700*
		14.0	79.7	71.4	47 700	56 500
		15.0	78.9	71.3	43 200	51 100
		16.0	78.1	71.1	39 300	46 400
		18.0	76.4	70.6	33 100	39 100
		20.0	74.7	70.1	28 300	33 400
		22.0	73.0	69.5	24 500	29 000
		24.0	71.3	68.9	21 400	25 400
		26.0	69.6	68.2	18 900	22 500
		28.0	67.8	67.4	16 700	20 000
		30.0	66.0	66.5	14 900	17 800
		32.0	64.2	65.6	13 300	16 000
		34.0	62.4	64.6	11 900	14 400
		36.0	60.5	63.5	10 600	13 000
		38.0	58.6	62.3	9 600	11 800
		40.0	56.7	61.1	8 600	10 600
42.0	54.7	59.7	7 700	9 700		
44.0	52.7	58.2	6 900	8 700		
46.0	50.6	56.6	6 200	8 000		
48.0	48.5	54.9	5 500	7 200		
50.0	46.3	53.1	4 900	6 500		
52.0	43.9	51.1	4 300	5 900		
54.0	41.5	48.9	3 900	5 300		
56.0	39.0	46.6	3 300	4 800		
58.0	36.3	44.0	2 900	4 300		
60.0	33.5	41.1	2 500	3 800		
62.0	30.4	37.9	2 100	3 400		
64.0	27.0	34.3	1 800	2 900		
66.0	23.1	30.0		2 600		
68.0	18.5	24.7		2 200		

MANITOWOC ENGINEERING CO.

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



LIFT CRANE BOOM CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

888 SERIES 2

BOOM NO. 22E WITH OPEN THROAT TOP
81 240 kg CRANE COUNTERWEIGHT
19 960 kg CARBODY COUNTERWEIGHT
360 DEGREE RATING

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY CRAWLERS RETRACTED KILOGRAMS	BOOM CAPACITY CRAWLERS EXTENDED KILOGRAMS
7 3 2	2 4 0	12.2	81.6	74.8	55 500*	55 500*
		13.0	81.0	74.7	53 200	55 300*
		14.0	80.2	74.5	47 500	55 000*
		15.0	79.4	74.4	43 000	51 000
		16.0	78.6	74.2	39 200	46 300
		18.0	77.0	73.7	33 000	38 900
		20.0	75.4	73.2	28 200	33 300
		22.0	73.7	72.7	24 400	28 800
		24.0	72.1	72.1	21 300	25 200
		26.0	70.5	71.4	18 700	22 300
		28.0	68.8	70.7	16 500	19 800
		30.0	67.1	69.8	14 700	17 700
		32.0	65.4	69.0	13 100	15 800
		34.0	63.6	68.0	11 700	14 200
		36.0	61.9	67.0	10 400	12 800
		38.0	60.1	65.9	9 300	11 600
		40.0	58.3	64.7	8 400	10 500
		42.0	56.4	63.4	7 500	9 500
		44.0	54.5	62.0	6 700	8 600
		46.0	52.6	60.5	6 000	7 700
48.0	50.6	59.0	5 300	7 000		
50.0	48.5	57.2	4 700	6 300		
52.0	46.4	55.4	4 200	5 700		
54.0	44.2	53.4	3 600	5 100		
56.0	41.9	51.3	3 200	4 600		
58.0	39.5	49.0	2 700	4 100		
60.0	36.9	46.4	2 300	3 600		
62.0	34.2	43.6	1 900	3 200		
64.0	31.3	40.5		2 800		
66.0	28.2	37.0		2 400		
68.0	24.7	33.0		2 000		
7 6 2	2 5 0	12.2	82.0	77.9	50 300*	50 300*
		13.0	81.3	77.8	50 000*	50 000*
		14.0	80.6	77.6	47 400	49 800*
		15.0	79.8	77.5	42 900	49 500*
		16.0	79.0	77.3	39 000	47 300
		18.0	77.5	76.9	32 800	38 800
		20.0	76.0	76.4	28 000	33 100
		22.0	74.4	75.9	24 200	28 600
		24.0	72.8	75.3	21 100	25 100
		26.0	71.3	74.6	18 500	22 100
		28.0	69.7	73.9	16 400	19 600
		30.0	68.1	73.1	14 500	17 500
		32.0	66.4	72.3	12 900	15 600
		34.0	64.8	71.4	11 500	14 100
		36.0	63.1	70.4	10 300	12 600
		38.0	61.4	69.4	9 200	11 400
		40.0	59.7	68.2	8 200	10 300
		42.0	57.9	67.0	7 300	9 300
		44.0	56.1	65.7	6 600	8 400
		46.0	54.3	64.3	5 800	7 600
48.0	52.4	62.8	5 200	6 800		
50.0	50.5	61.3	4 600	6 200		
52.0	48.5	59.5	4 000	5 500		
54.0	46.5	57.7	3 500	4 900		
56.0	44.4	55.7	3 000	4 400		
58.0	42.2	53.6	2 600	3 900		
60.0	39.9	51.3	2 100	3 400		
62.0	37.5	48.8		3 000		
64.0	34.9	46.1		2 600		
66.0	32.2	43.1		2 200		
68.0	29.3	39.7		1 900		

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY CRAWLERS RETRACTED KILOGRAMS	BOOM CAPACITY CRAWLERS EXTENDED KILOGRAMS
7 9 2	2 6 0	12.8	81.8	80.9	45 800*	45 800*
		13.0	81.7	80.9	45 700*	45 700*
		14.0	80.9	80.7	45 400*	45 400*
		15.0	80.2	80.6	42 800	45 200*
		16.0	79.5	80.4	38 800	44 300
		18.0	78.0	80.0	32 500	38 900
		20.0	76.5	79.5	27 800	32 900
		22.0	75.0	79.0	24 000	28 500
		24.0	73.5	78.5	20 900	24 900
		26.0	72.0	77.8	18 300	21 900
		28.0	70.5	77.2	16 200	19 400
		30.0	68.9	76.4	14 300	17 300
		32.0	67.4	75.6	12 700	15 400
		34.0	65.8	74.7	11 300	13 800
		36.0	64.2	73.8	10 100	12 400
		38.0	62.6	72.8	9 000	11 200
		40.0	61.0	71.7	8 000	10 100
		42.0	59.3	70.6	7 100	9 100
		44.0	57.6	69.4	6 300	8 200
		46.0	55.9	68.1	5 600	7 400
48.0	54.1	66.6	4 900	6 600		
50.0	52.3	65.2	4 300	5 900		
52.0	50.4	63.6	3 800	5 300		
54.0	48.5	61.8	3 300	4 700		
56.0	46.6	60.0	2 800	4 200		
58.0	44.5	58.1	2 300	3 700		
60.0	42.4	55.9	1 900	3 200		
62.0	40.3	53.7		2 800		
64.0	38.0	51.2		2 400		
66.0	35.6	48.5		2 000		
8 2 3	2 7 0	13.4	81.7	83.9	41 600*	41 600*
		14.0	81.3	83.8	41 500*	41 500*
		15.0	80.6	83.6	41 200*	41 200*
		16.0	79.9	83.5	39 400	40 900*
		18.0	78.5	83.1	32 400	38 300
		20.0	77.0	82.7	27 600	32 700
		22.0	75.6	82.2	23 800	28 300
		24.0	74.2	81.6	20 700	24 500
		26.0	72.7	81.0	18 100	21 700
		28.0	71.2	80.4	15 900	19 200
		30.0	69.8	79.7	14 100	17 000
		32.0	68.3	78.9	12 500	15 200
		34.0	66.8	78.1	11 100	13 600
		36.0	65.2	77.2	9 800	12 200
38.0	63.7	76.2	8 700	10 900		
40.0	62.1	75.2	7 800	9 800		
42.0	60.5	74.1	6 900	8 800		
44.0	58.9	72.9	6 100	7 900		
46.0	57.3	71.7	5 300	7 100		
48.0	55.6	70.4	4 700	6 400		
50.0	53.9	69.0	4 100	5 700		
52.0	52.2	67.5	3 500	5 100		
54.0	50.4	65.9	3 000	4 500		
56.0	48.6	64.1	2 500	4 000		
58.0	46.7	62.3	2 100	3 500		
60.0	44.7	60.4		3 000		
62.0	42.7	58.3		2 500		
64.0	40.6	56.0		2 100		

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BOOM NO. 22E WITH OPEN THROAT TOP
81 240 kg CRANE COUNTERWEIGHT
19 960 kg CARBODY COUNTERWEIGHT
360 DEGREE RATING

BOOM LENGTH METERS	BOOM LGTH. FEET	OPER. RADIUS METERS	BOOM ANG. DEG.	BOOM POINT ELEV. METERS	BOOM CAPACITY CRAWLERS RETRACTED KILOGRAMS	BOOM CAPACITY CRAWLERS EXTENDED KILOGRAMS
8 5 3	2 8 0	13.4	82.0	87.0	37 700*	37 700*
		14.0	81.6	86.9	37 600*	37 600*
		15.0	80.9	86.7	37 300*	37 300*
		16.0	80.2	86.6	36 700	37 100*
		18.0	78.9	86.2	32 400	36 500*
		20.0	77.5	85.8	27 300	32 500
		22.0	76.1	85.3	23 500	28 000
		24.0	74.7	84.8	20 400	24 400
		26.0	73.3	84.2	17 800	21 500
		28.0	71.9	83.6	15 700	19 000
		30.0	70.5	82.9	13 800	16 800
		32.0	69.1	82.2	12 200	15 000
		34.0	67.6	81.4	10 800	13 400
		36.0	66.2	80.5	9 600	12 000
		38.0	64.7	79.6	8 500	10 700
		40.0	63.2	78.6	7 500	9 600
		42.0	61.7	77.6	6 600	8 600
		44.0	60.2	76.5	5 800	7 700
		46.0	58.6	75.3	5 100	6 900
		48.0	57.0	74.0	4 500	6 200
		50.0	55.4	72.7	3 800	5 500
		52.0	53.7	71.3	3 300	4 800
		54.0	52.1	69.8	2 800	4 300
		56.0	50.3	68.2	2 300	3 700
		58.0	48.6	66.4		3 200
		60.0	46.8	64.6		2 800
		62.0	44.9	62.7		2 300
		64.0	42.9	60.6		1 900
8 8 4	2 9 0	14.0	81.9	90.0	34 400*	34 400*
		15.0	81.2	89.8	34 200*	34 200*
		16.0	80.6	89.7	33 900*	33 900*
		18.0	79.3	89.3	31 800	33 400*
		20.0	77.9	88.9	27 200	32 500
		22.0	76.6	88.4	23 400	27 900
		24.0	75.3	87.9	20 300	24 200
		26.0	73.9	87.4	17 700	21 300
		28.0	72.6	86.8	15 500	18 800
		30.0	71.2	86.1	13 700	16 700
		32.0	69.8	85.4	12 100	14 800
		34.0	68.4	84.7	10 700	13 200
		36.0	67.0	83.9	9 400	11 800
		38.0	65.6	83.0	8 300	10 500
		40.0	64.2	82.0	7 300	9 400
		42.0	62.7	81.0	6 400	8 400
		44.0	61.3	80.0	5 600	7 500
		46.0	59.8	78.8	4 900	6 700
		48.0	58.3	77.6	4 300	6 000
		50.0	56.7	76.4	3 700	5 300
		52.0	55.2	75.0	3 100	4 700
		54.0	53.6	73.6	2 600	4 100
		56.0	52.0	72.1	2 100	3 500
		58.0	50.3	70.5		3 100
		60.0	48.6	68.7		2 600
		62.0	46.8	66.9		2 100