

MANITOWOC ENGINEERING CO.

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



LIFT CRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-50W

BOOM NO. 45
28,700 LB. COUNTERWEIGHT
19'6" CRAWLERS EXTENDED
360 DEGREE RATING

BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	BOOM LGTH. FEET	OPER. RAD. FEET	BOOM ANG. DEG.	BOOM POINT ELEV. FEET	CAPACITY POUNDS	
70	14	81.8	74.5	95,600*	900	36	69.1	89.1	23,100	1200	21	81.9	124.0	49,100	
	15	81.0	74.3	85,400		38	67.8	88.3	21,500		22	81.4	123.8	45,800	
	16	80.1	74.2	76,400		40	66.4	87.5	20,100		23	80.9	123.7	42,800	
	17	79.3	74.0	69,100		45	62.8	85.0	17,100		24	80.4	123.5	40,200	
	18	78.4	73.7	63,000		50	59.2	82.2	14,800		25	79.9	123.3	37,900	
	19	77.6	73.5	57,900		55	55.4	78.9	13,000		26	79.4	123.1	35,800	
	20	76.8	73.3	53,500		60	51.4	75.1	11,500		27	78.9	122.9	33,900	
	21	75.9	73.0	49,700		65	47.1	70.7	10,300		28	78.5	122.7	32,200	
	22	75.1	72.8	46,400		70	42.6	65.6	9,300		29	78.0	122.5	30,600	
	23	74.2	72.5	43,500		75	37.6	59.6	8,400		30	77.5	122.3	29,200	
	24	73.4	72.2	40,900		80	31.9	52.2	7,600		32	76.5	121.8	26,700	
	25	72.5	71.8	38,600		85	25.1	42.8	7,000		34	75.5	121.3	24,500	
	26	71.6	71.5	36,500		90	15.8	29.0	6,400		36	74.5	120.8	22,600	
	27	70.8	71.2	34,600		1000	18	81.9	104.2		62,700	38	73.5	120.2	21,000
	28	69.9	70.8	32,900			19	81.4	104.1		57,500	40	72.5	119.5	19,600
	29	69.0	70.4	31,400			20	80.8	103.9		53,100	45	70.0	117.8	16,600
	30	68.1	70.0	29,900			21	80.2	103.7		49,300	50	67.4	115.8	14,300
	32	66.4	69.1	27,400			22	79.6	103.5		46,000	55	64.8	113.6	12,500
	34	64.5	68.2	25,300			23	79.0	103.4		43,100	60	62.1	111.0	11,000
	36	62.7	67.2	23,400			24	78.5	103.1		40,500	65	59.4	108.2	9,800
	38	60.8	66.1	21,800			25	77.9	102.9		38,200	70	56.6	105.0	8,800
	40	58.9	64.9	20,300			26	77.3	102.7		36,100	75	53.6	101.5	7,900
	45	54.0	61.5	17,400			27	76.7	102.5		34,200	80	50.6	97.5	7,100
50	48.7	57.4	15,100	28	76.1		102.2	32,500	85	47.4	93.1	6,400			
55	42.9	52.4	13,300	29	75.5		101.9	30,900	90	44.0	88.2	5,900			
60	36.4	46.2	11,800	30	74.9		101.7	29,500	95	40.5	82.6	5,300			
65	28.6	38.2	10,600	32	73.7		101.1	27,000	100	36.6	76.2	4,900			
70	18.0	26.2	9,600	34	72.5		100.5	24,800	105	32.3	68.8	4,500			
800	16	81.4	84.3	76,300	36		71.3	99.8	23,000	110	27.5	60.0	4,100		
	17	80.6	84.1	68,900	38		70.1	99.1	21,300	115	21.7	48.9	3,700		
	18	79.9	84.0	62,900	40		68.9	98.3	19,900	1300	22	82.0	134.0	45,600	
	19	79.2	83.8	57,700	45		65.7	96.2	16,900		23	81.6	133.8	42,700	
	20	78.5	83.5	53,300	50		62.6	93.7	14,600		24	81.1	133.7	40,100	
	21	77.7	83.3	49,500	55		59.3	90.9	12,800		25	80.7	133.5	37,800	
	22	77.0	83.1	46,200	60		55.8	87.6	11,400		26	80.3	133.3	35,700	
	23	76.2	82.8	43,300	65		52.3	83.9	10,100		27	79.8	133.1	33,800	
	24	75.5	82.6	40,700	70	48.5	79.7	9,100	28		79.4	132.9	32,100		
	25	74.8	82.3	38,400	75	44.6	74.9	8,200	29		78.9	132.7	30,500		
	26	74.0	82.0	36,300	80	40.3	69.3	7,500	30		78.5	132.5	29,100		
	27	73.3	81.7	34,400	85	35.6	62.8	6,800	32		77.6	132.1	26,500		
	28	72.5	81.4	32,700	90	30.2	54.9	6,200	34		76.6	131.6	24,400		
	29	71.8	81.1	31,200	95	23.8	44.9	5,700	36		75.7	131.1	22,500		
	30	71.0	80.7	29,800	1100	20	81.6	114.0	53,000		38	74.8	130.6	20,800	
	32	69.5	80.0	27,200		21	81.1	113.9	49,200		40	73.9	130.0	19,400	
	34	67.9	79.2	25,100		22	80.6	113.7	45,800		45	71.6	128.4	16,400	
36	66.4	78.3	23,200	23		80.0	113.5	42,900	50		69.3	126.6	14,200		
38	64.8	77.4	21,600	24		79.5	113.3	40,300	55		66.9	124.6	12,300		
40	63.2	76.4	20,100	25		79.0	113.1	38,000	60	64.4	122.3	10,900			
45	59.1	73.5	17,200	26		78.5	112.9	35,900	65	62.0	119.7	9,600			
50	54.8	70.2	14,900	27		77.9	112.7	34,000	70	59.4	116.8	8,600			
55	50.2	66.3	13,100	28		77.4	112.5	32,300	75	56.8	113.7	7,700			
60	45.3	61.6	11,600	29		76.9	112.3	30,800	80	54.1	110.2	6,900			
65	40.0	56.1	10,400	30		76.3	112.0	29,300	85	51.4	106.3	6,300			
70	33.9	49.3	9,400	32		75.2	111.5	26,800	90	48.5	102.1	5,700			
75	26.7	40.6	8,500	34		74.2	110.9	24,600	95	45.4	97.4	5,200			
80	16.8	27.6	7,700	36		73.1	110.3	22,800	100	42.2	92.1	4,700			
900	17	81.7	94.3	68,900		38	72.0	109.7	21,100	105	38.8	86.1	4,300		
	18	81.0	94.1	62,800		40	70.9	109.0	19,700	110	35.1	79.4	3,900		
	19	80.4	93.9	57,700		45	68.1	107.1	16,700	115	31.0	71.6	3,600		
	20	79.8	93.7	53,300	50	65.2	104.9	14,400	120	26.4	62.3	3,200			
	21	79.1	93.6	49,500	55	62.3	102.4	12,600	125	20.8	50.7	3,000			
	22	78.5	93.3	46,200	60	59.3	99.5	11,100							
	23	77.8	93.1	43,200	65	56.2	96.3	9,900							
	24	77.1	92.9	40,700	70	53.0	92.7	8,900							
	25	76.5	92.6	38,300	75	49.7	88.6	8,000							
	26	75.8	92.4	36,300	80	46.1	84.1	7,200							
	27	75.2	92.1	34,400	85	42.4	78.8	6,600							
	28	74.5	91.8	32,700	90	38.3	72.9	6,000							
29	73.9	91.6	31,100	95	33.8	65.9	5,500								
30	73.2	91.2	29,700	100	28.8	57.5	5,000								
32	71.8	90.6	27,200	105	22.7	46.9	4,600								
34	70.5	89.9	25,000												

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LIFT CRANE JIB CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

M-50W

JIB NO. 130 WITH 12' STRUT ON
BOOM NO. 45
26,700 LB. COUNTERWEIGHT
19'6" CRAWLERS EXTENDED
360 DEGREE RATING

30 FOOT JIB

BOOM LGTH. FEET	JIB OPER. RAD. FEET	3 DEGREE OFFSET			15 DEGREE OFFSET			30 DEGREE OFFSET			JIB OPER. RAD. FEET	
		BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS	BOOM ANG. DEG.	JIB POINT ELEV. FEET	CAPACITY POUNDS		
130	35	79.7	163.7	15,000*								35
	40	77.9	162.6	15,000*	80.0	161.7	15,000*					40
	45	76.0	161.4	15,000*	78.2	160.4	15,000*					45
	50	74.2	160.0	14,200	76.3	159.0	14,700	80.5	157.8	14,400*		50
	55	72.3	158.4	12,400	74.4	157.4	12,800	78.6	156.4	14,400*		55
	60	70.4	156.6	10,900	72.5	155.7	11,200	76.7	154.8	13,200		60
	65	68.5	154.7	9,600	70.6	153.7	9,900	74.8	153.0	11,600		65
	70	66.6	152.5	8,500	68.7	151.5	8,800	72.8	151.0	10,300		70
	80	62.7	147.6	6,900	64.7	146.6	7,100	70.9	148.8	9,100		80
	90	58.5	141.8	5,600	60.6	140.7	5,800	66.8	143.7	7,300		90
	100	54.2	135.0	4,600	56.2	133.8	4,700	62.6	137.8	6,000		100
	110	49.7	126.9	3,800	51.6	125.7	3,900	58.1	130.7	4,900		110
	120	44.8	117.4	3,100	46.7	116.1	3,200	53.4	122.4	4,000		120
130	39.4	106.0	2,500	41.2	104.6	2,600	48.3	112.4	3,300		130	
140	35	80.3	173.8	15,000*								35
	40	78.6	172.8	15,000*	80.6	171.9	15,000*					40
	45	76.9	171.7	15,000*	78.9	170.7	15,000*					45
	50	75.1	170.4	14,000	77.1	169.4	14,500	79.3	166.8	13,800*		50
	55	73.4	168.9	12,200	75.4	167.9	12,600	77.5	165.3	13,000		55
	60	71.6	167.3	10,600	73.6	166.3	11,000	75.7	163.6	11,400		60
	65	69.9	165.4	9,400	71.8	164.4	9,700	73.9	161.7	10,100		65
	70	68.1	163.4	8,300	70.0	162.4	8,600	72.1	159.7	9,000		70
	80	64.4	158.9	6,600	66.3	157.8	6,900	68.3	155.0	7,200		80
	90	60.6	153.5	5,400	62.5	152.4	5,600	64.4	149.5	5,800		90
	100	56.6	147.2	4,400	58.5	146.1	4,500	60.3	143.0	4,700		100
	110	52.5	139.9	3,500	54.3	138.7	3,700	56.1	135.5	3,800		110
	120	48.1	131.4	2,900	49.9	130.1	3,000	51.5	126.6	3,100		120
130							46.6	116.2	2,500		130	
150	35	80.8	184.0	15,000*								35
	40	79.2	183.1	15,000*								40
	45	77.6	182.0	15,000*	79.5	181.0	15,000*					45
	50	76.0	180.7	13,900	77.9	179.8	14,400	79.9	177.1	13,000*		50
	55	74.3	179.3	12,000	76.2	178.4	12,500	78.3	175.7	13,000*		55
	60	72.7	177.8	10,500	74.6	176.8	10,900	76.6	174.1	11,300		60
	65	71.0	176.1	9,300	72.9	175.1	9,600	74.9	172.4	10,000		65
	70	69.3	174.2	8,200	71.2	173.2	8,500	73.1	170.5	8,900		70
	80	65.9	170.0	6,500	67.7	168.9	6,800	69.6	166.1	7,100		80
	90	62.4	165.0	5,200	64.2	163.9	5,500	66.0	161.0	5,700		90
	100	58.7	159.1	4,200	60.5	158.1	4,400	62.3	155.0	4,600		100
	110	54.9	152.4	3,400	56.7	151.3	3,600	58.3	148.1	3,700		110
	120	50.9	144.7	2,700	52.6	143.5	2,900	54.2	140.1	3,000		120
160	40	79.8	193.3	15,000*								40
	45	78.3	192.2	15,000*	80.1	191.3	15,000*					45
	50	76.7	191.1	13,700	78.5	190.1	14,200	80.5	187.4	12,300*		50
	55	75.2	189.7	11,800	77.0	188.8	12,300	78.9	186.1	12,300*		55
	60	73.6	188.3	10,300	75.4	187.3	10,800	77.3	184.6	11,200		60
	65	72.0	186.7	9,100	73.8	185.7	9,500	75.7	182.9	9,900		65
	70	70.5	184.9	8,000	72.2	183.9	8,400	74.1	181.1	8,700		70
	80	67.2	180.9	6,300	69.0	179.9	6,600	70.8	177.1	6,900		80
	90	63.9	176.2	5,000	65.6	175.2	5,300	67.4	172.3	5,500		90
	100	60.5	170.8	4,000	62.2	169.7	4,200	63.9	166.7	4,500		100
	110	57.0	164.6	3,200	58.7	163.5	3,400	60.3	160.3	3,600		110
	120	53.3	157.5	2,500	55.0	156.3	2,700	56.5	153.0	2,800		120