

MANITOWOC ENGINEERING CO.

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



LIFTCRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

3900T SERIES 2

BOOM NO. 9A WITH OPEN THROAT TOP

74,000 LB. CRANE COUNTERWEIGHT

10,500 LB. FRONT BUMPER COUNTERWEIGHT

RATING OVER SIDE OR REAR ON EXTENDED OUTRIGGERS

85% TIPPING

CAPACITIES FOR VARIOUS BOOM LENGTHS AND OPERATING RADII ARE FOR FREELY SUSPENDED LOADS AND DO NOT EXCEED 85% OF A STATIC TIPPING LOAD. CAPACITIES BASED ON STRUCTURAL COMPETENCE ARE DENOTED BY AN ASTERISK (*).

UPPER BOOM POINT CAPACITY FOR LIFTCRANE SERVICE WITH SINGLE PART WHIP LINE OR COMBINATION OF TWO SINGLE PART LINES IS 22,500 LBS. IN ALL CASES, UPPER BOOM POINT CAPACITIES CANNOT EXCEED THOSE LISTED FOR THE 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 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 GANTRY UP AND OUTRIGGERS FULLY EXTENDED AND SET. REFER TO RIGGING NO. 49447, WIRE ROPE SPECIFICATION CHART NO. 6435 AND OPERATING RANGE DIAGRAM CHART NO. 6423-A. 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.

OPERATING RADIUS IS THE HORIZONTAL DISTANCE FROM THE AXIS OF ROTATION TO THE CENTER OF VERTICAL HOIST LINE OR LOAD BLOCK. BOOM ANGLE IS THE 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 MANITOWOC-HENDRICKSON OR MANITOWOC-PIERCE 12 X 6 CARRIER, 226" WHEELBASE, 105" FRONT AXLE TRACK, 100" REAR AXLE TRACK, 14.00-20 TIRES, 112" OUTRIGGERS, 15' RETRACTABLE GANTRY, 10 OR 12 PART BOOM HOIST REEVING, FOUR 1-1/4" BOOM PENDANTS, 74,000 LB. CRANE COUNTERWEIGHT AND 10,500 LB. FRONT BUMPER COUNTERWEIGHT.

DO NOT ROTATE UPPERWORKS OVER SIDE WITH 61,200 LB. OR 74,000 LB. COUNTERWEIGHT ATTACHED UNLESS OUTRIGGERS ARE FULLY EXTENDED AND SET.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED OVER REAR ON EXTENDED OUTRIGGERS			OVER SIDE ON EXTENDED OUTRIGGERS			DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED		
BOOM LGTH.	JIB NO. 123	JIB NO. 124	BOOM LGTH.	JIB NO. 123	JIB NO. 124	JIB LGTH.	JIB NO. 123	JIB NO. 124
220'	---	---	220'	---	---	30'	2,500 LBS.	1,800 LBS.
220'	50'	60'	210'	---	---	40'	3,100 LBS.	2,050 LBS.
210'	60'	60'	200'	40'	60'	50'	3,700 LBS.	2,300 LBS.
			190'	60'	60'	60'	4,400 LBS.	2,500 LBS.
LOAD BLOCK, HOOK AND WEIGHT BALL ON GROUND AT START.								

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
60	12	82.0	67.2	280,000*	70	14	81.5	77.0	262,000*	80	15	81.8	87.0	238,800*
	13	81.0	67.1	277,700*		15	80.6	76.9	255,800*		16	81.1	86.8	233,500*
	14	80.0	66.9	271,100*		16	79.8	76.7	249,600*		17	80.4	86.7	228,500*
	15	79.1	66.7	260,700*		17	79.0	76.5	240,300*		18	79.6	86.5	223,700*
	16	78.1	66.5	250,600*		18	78.1	76.3	231,600*		19	78.9	86.3	219,100*
	17	77.1	66.3	241,300*		19	77.3	76.1	223,500*		20	78.2	86.1	214,700*
	18	76.1	66.1	232,600*		20	76.5	75.9	216,000*		22	76.7	85.7	201,000*
	19	75.2	65.8	224,500*		22	74.8	75.4	202,300*		24	75.2	85.2	181,800*
	20	74.2	65.5	216,900*		24	73.1	74.8	186,000*		26	73.8	84.6	164,000
	22	72.2	64.9	203,200*		26	71.4	74.1	164,400		28	72.3	84.0	145,700
	24	70.1	64.2	188,100		28	69.6	73.4	146,100		30	70.8	83.3	130,900
	26	68.1	63.5	164,800		30	67.9	72.7	131,300		32	69.2	82.6	118,700
	28	66.0	62.6	146,500		32	66.1	71.8	119,100		34	67.7	81.8	108,500
	30	63.9	61.7	131,700		34	64.3	70.9	109,000		36	66.1	81.0	99,800
	32	61.8	60.7	119,600		36	62.5	69.9	100,300		38	64.6	80.1	92,300
	34	59.6	59.6	109,400		38	60.6	68.8	92,800		40	63.0	79.1	85,900
	36	57.3	58.3	100,800		40	58.7	67.6	86,300		45	58.9	76.3	72,800
	38	55.0	57.0	93,300		45	53.8	64.3	73,300		50	54.6	73.0	63,000
	40	52.7	55.5	86,800		50	48.5	60.2	63,500		55	50.0	69.1	55,300
	45	46.4	51.3	73,800		55	42.8	55.4	55,800		60	45.2	64.6	49,100
50	39.4	45.9	64,000	60	36.4	49.3	49,700	65	39.9	59.1	44,100			
55	31.1	38.8	56,400	65	28.7	41.5	44,600	70	33.9	52.5	39,800			
60	20.0	28.4	48,300*	70	18.5	30.0	39,900*	75	26.9	43.9	36,300			
										80	17.3	31.6	33,200	

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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
90	17	81.5	96.8	217,400*	120	22	81.2	126.4	161,700*	140	110	40.6	98.8	18,900
	18	80.8	96.7	212,900*		24	80.2	126.1	156,400*		115	37.3	92.6	17,600
	19	80.2	96.5	208,700*		26	79.3	125.7	151,400*		120	33.8	85.6	16,300
	20	79.5	96.3	204,600*		28	78.3	125.3	140,700*		125	29.9	77.6	15,200
	22	78.2	95.9	196,300*		30	77.3	124.9	129,800*		130	25.5	68.1	14,200
	24	76.9	95.5	177,600*		32	76.3	124.4	117,500*		135	20.2	56.2	13,200
	26	75.6	95.0	162,300*		34	75.3	123.9	107,300*					
	28	74.3	94.4	145,300*		36	74.3	123.4	98,600*		26	81.4	156.1	121,100*
	30	73.0	93.9	130,400*		38	73.4	122.8	91,100*		28	80.6	155.8	118,100*
	32	71.6	93.2	118,200*		40	72.4	122.2	84,600*		30	79.9	155.5	115,100*
	34	70.3	92.5	108,000*		45	69.8	120.5	71,500*		32	79.1	155.1	112,300*
	36	68.9	91.8	99,300*		50	67.3	118.5	61,600*		34	78.3	154.7	106,400*
	38	67.5	91.0	91,900*		55	64.7	116.3	53,900*		36	77.5	154.3	97,600*
	40	66.2	90.1	85,300*		60	62.0	113.7	47,700*		38	76.8	153.8	90,100*
	45	62.6	87.7	72,300*		65	59.2	110.9	42,600*		40	76.0	153.3	83,600*
	50	59.0	84.9	62,400*		70	56.4	107.8	38,400*		45	74.0	152.0	70,500*
	55	55.2	81.7	54,700*		75	53.5	104.3	34,800*		50	72.0	150.5	60,600*
100	60	51.2	78.0	48,600*		80	50.5	100.4	31,700*	150	55	70.0	148.7	52,800*
	65	47.0	73.6	43,500*		85	47.3	96.0	29,000*		60	67.9	146.8	46,600*
	70	42.5	68.6	39,300*		90	44.0	91.1	26,600*		65	65.8	144.7	41,500*
	75	37.5	62.6	35,700*		95	40.4	85.6	24,600*		70	63.7	142.3	37,300*
	80	31.9	55.4	32,600*		100	36.6	79.3	22,700*		75	61.6	139.7	33,700*
	85	25.3	46.3	29,900*		105	32.4	72.0	21,100*		80	59.4	136.9	30,600*
	90	16.3	33.1	27,600*		110	27.6	63.3	19,600*		85	57.1	133.8	27,900*
						115	21.9	52.5	18,200*		90	54.8	130.4	25,500*
	19	81.2	106.6	185,200*		24	81.0	136.2	148,800*		95	52.5	126.8	23,400*
	20	80.6	106.5	181,900*		26	80.1	135.9	144,100*		100	50.0	122.8	21,600*
	22	79.4	106.1	175,700*		28	79.2	135.5	137,800*		105	47.5	118.4	19,900*
	24	78.2	105.7	169,900*		30	78.3	135.1	127,600*		110	44.8	113.6	18,500*
	26	77.1	105.3	159,000*		32	77.4	134.7	117,100*		115	42.1	108.3	17,100*
	28	75.9	104.8	145,300*		34	76.5	134.2	106,900*		120	39.1	102.5	15,900*
	30	74.7	104.3	130,500*		36	75.6	133.7	98,100*		125	36.0	95.9	14,700*
	32	73.5	103.7	118,300*		38	74.7	133.2	90,600*		130	32.6	88.6	13,700*
	34	72.3	103.1	108,100*		40	73.8	132.6	84,100*		135	28.9	80.2	12,800*
	36	71.1	102.4	99,400*		45	71.4	131.1	71,000*		140	24.6	70.3	11,900*
110	38	69.9	101.7	91,900*	130	50	69.1	129.3	61,100*	160	145	19.5	57.9	11,100*
	40	68.7	101.0	85,400*		55	66.7	127.2	53,400*					
	45	65.6	98.9	72,300*		60	64.3	125.0	47,200*		28	81.2	165.9	112,100*
	50	62.4	96.4	62,500*		65	61.8	122.4	42,100*		30	80.5	165.6	109,300*
	55	59.1	93.6	54,800*		70	59.3	119.6	37,800*		32	79.8	165.3	106,700*
	60	55.7	90.4	48,600*		75	56.7	116.5	34,200*		34	79.1	164.9	104,100*
	65	52.1	86.8	43,500*		80	54.0	113.0	31,100*		36	78.3	164.5	97,300*
	70	48.4	82.6	39,300*		85	51.2	109.2	28,500*		38	77.6	164.1	89,700*
	75	44.5	77.9	35,700*		90	48.4	105.0	26,100*		40	76.9	163.6	83,200*
	80	40.2	72.4	32,600*		95	45.3	100.3	24,000*		45	75.0	162.4	70,100*
	85	35.5	65.9	29,900*		100	42.2	95.1	22,200*		50	73.2	160.9	60,100*
	90	30.3	58.2	27,600*		105	38.8	89.2	20,500*		55	71.3	159.3	52,400*
	95	24.0	48.4	25,500*		110	35.1	82.5	19,000*		60	69.4	157.6	46,200*
	100	15.5	34.5	23,700*		115	31.0	74.9	17,700*		65	67.4	155.6	41,100*
						120	26.5	65.8	16,500*		70	65.5	153.4	36,800*
	20	81.4	116.6	173,900*		125	21.0	54.4	15,300*		75	63.5	151.0	33,200*
	22	80.4	116.3	168,000*							80	61.5	148.4	30,100*
	24	79.3	115.9	162,500*		26	80.8	146.0	127,400*		85	59.4	145.6	27,400*
	26	78.3	115.5	155,500*		28	80.0	145.7	124,200*		90	57.3	142.5	25,100*
	28	77.2	115.1	143,100*		30	79.1	145.3	121,100*		95	55.2	139.2	23,000*
140	30	76.1	114.6	130,100*	140	32	78.3	144.9	116,900*		100	53.0	135.5	21,200*
	32	75.1	114.1	117,900*		34	77.5	144.5	106,700*		105	50.7	131.6	19,500*
	34	74.0	113.5	107,600*		36	76.6	144.0	98,000*		110	48.3	127.3	18,000*
	36	72.9	112.9	98,900*		38	75.8	143.5	90,500*		115	45.9	122.7	16,700*
	38	71.8	112.3	91,500*		40	74.9	143.0	83,900*		120	43.3	117.6	15,400*
	40	70.7	111.6	84,900*		45	72.8	141.6	70,800*		125	40.7	112.1	14,300*
	45	67.9	109.7	71,900*		50	70.7	139.9	60,900*		130	37.8	105.9	13,300*
	50	65.1	107.6	62,000*		55	68.5	138.0	53,200*		135	34.8	99.1	12,300*
	55	62.2	105.1	54,300*		60	66.3	136.0	47,000*		140	31.5	91.5	11,500*
	60	59.2	102.3	48,100*		65	64.0	133.6	41,900*		145	27.9	82.7	10,600*
	65	56.1	99.1	43,000*		70	61.7	131.1	37,700*		150	23.8	72.4	9,900*
	70	52.9	95.5	38,800*		75	59.3	128.3	34,100*		155	18.9	59.6	9,200*
	75	49.5	91.5	35,200*		80	56.9	125.1	31,000*					
	80	46.0	87.0	32,100*		85	54.5	121.7	28,300*					
	85	42.3	81.8	29,400*		90	51.9	118.0	26,000*					
	90	38.3	75.9	27,100*		95	49.3	113.9	23,900*					
	95	33.8	69.1	25,000*		100	46.5	109.4	22,000*					
	100	28.8	60.8	23,200*		105	43.6	104.4	20,400*					
	105	22.8	50.5	21,500*										

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170	30	81.1	175.8	102,100*	190	32	81.4	195.7	85,900*	210	36	81.1	215.3	70,900*
	32	80.4	175.4	99,700*		34	80.8	195.4	84,200*		38	80.6	215.0	69,500*
	34	79.7	175.1	97,300*		36	80.2	195.0	82,500*		40	80.0	214.6	68,100*
	36	79.0	174.7	95,000*		38	79.6	194.7	80,800*		45	78.6	213.7	64,800*
	38	78.3	174.3	89,300		40	79.0	194.3	79,200*		50	77.2	212.6	58,200
	40	77.6	173.9	82,800		45	77.4	193.3	69,000		55	75.8	211.4	50,400
	45	75.9	172.7	69,600		50	75.9	192.1	59,000		60	74.4	210.1	44,200
	50	74.2	171.4	59,700		55	74.3	190.7	51,300		65	73.0	208.6	39,100
	55	72.4	169.9	51,900		60	72.7	189.3	45,000		70	71.6	207.0	34,800
	60	70.6	168.2	45,700		65	71.2	187.6	39,900		75	70.1	205.3	31,200
	65	68.8	166.3	40,600		70	69.6	185.8	35,700		80	68.7	203.4	28,000
	70	67.0	164.3	36,400		75	67.9	183.9	32,000		85	67.2	201.4	25,300
	75	65.2	162.1	32,700		80	66.3	181.8	28,900		90	65.7	199.2	23,000
	80	63.3	159.7	29,600		85	64.6	179.5	26,200		95	64.2	196.9	20,900
	85	61.4	157.1	26,900		90	63.0	177.0	23,900		100	62.7	194.4	19,000
	90	59.5	154.2	24,600		95	61.3	174.4	21,800		105	61.1	191.7	17,400
	95	57.5	151.2	22,500		100	59.5	171.6	19,900		110	59.6	188.9	15,900
	100	55.5	147.9	20,600		105	57.8	168.5	18,300		115	58.0	185.8	14,500
	105	53.4	144.3	19,000		110	56.0	165.2	16,800		120	56.3	182.6	13,300
	110	51.3	140.4	17,500		115	54.1	161.7	15,400		125	54.7	179.2	12,100
180	115	49.1	136.2	16,100	200	120	52.2	158.0	14,200	220	130	53.0	175.5	11,100
	120	46.8	131.7	14,900		125	50.3	154.0	13,100		135	51.3	171.6	10,100
	125	44.4	126.8	13,800		130	48.3	149.7	12,000		140	49.5	167.5	9,300
	130	42.0	121.5	12,800		135	46.3	145.1	11,100		145	47.7	163.1	8,500
	135	39.4	115.7	11,800		140	44.1	140.1	10,200		150	45.8	158.4	7,700
	140	36.7	109.3	10,900		145	41.9	134.7	9,400		155	43.9	153.4	7,000
	145	33.7	102.2	10,100		150	39.6	129.0	8,600		160	41.9	148.0	6,300
	150	30.6	94.3	9,400		155	37.2	122.6	7,900		165	39.8	142.2	5,700
	155	27.1	85.2	8,700		160	34.6	115.7	7,300		170	37.6	136.0	5,100
	160	23.1	74.5	8,000		165	31.9	108.1	6,700		175	35.3	129.2	4,600
	165	18.3	61.3	7,400		170	28.9	99.6	6,100		180	32.9	121.8	4,100
						175	25.6	89.9	5,600		185	30.3	113.7	3,600
						180	21.8	78.5	5,000		190	27.4	104.6	3,200
						185	17.3	64.4	4,600					
	32	80.9	185.6	91,500*		34	81.3	205.5	77,300*		38	81.0	225.1	60,500*
	34	80.3	185.2	89,700*		36	80.7	205.2	75,800*		40	80.5	224.8	60,000*
	36	79.6	184.9	87,900*		38	80.1	204.8	74,400*		45	79.2	223.9	58,900*
	38	79.0	184.5	86,100*		40	79.5	204.5	72,900*		50	77.8	222.9	56,900*
	40	78.3	184.1	82,500		45	78.1	203.5	68,600		55	76.5	221.7	50,100
	45	76.7	183.0	69,400		50	76.6	202.4	58,600		60	75.2	220.5	43,900
	50	75.1	181.7	59,400		55	75.1	201.1	50,900		65	73.8	219.1	38,800
	55	73.4	180.3	51,700		60	73.6	199.7	44,600		70	72.4	217.6	34,500
	60	71.7	178.8	45,500		65	72.1	198.2	39,500		75	71.1	215.9	30,900
	65	70.1	177.0	40,400		70	70.6	196.5	35,200		80	69.7	214.1	27,800
	70	68.4	175.1	36,100		75	69.1	194.6	31,600		85	68.3	212.2	25,100
	75	66.6	173.1	32,500		80	67.6	192.7	28,500		90	66.9	210.1	22,700
	80	64.9	170.8	29,400		85	66.0	190.5	25,800		95	65.5	207.9	20,600
	85	63.1	168.4	26,700		90	64.4	188.2	23,500		100	64.0	205.6	18,700
	90	61.3	165.7	24,400		95	62.8	185.7	21,400		105	62.6	203.1	17,100
200	95	59.5	162.9	22,300	220	100	61.2	183.1	19,500	240	110	61.1	200.4	15,600
	100	57.6	159.8	20,400		105	59.5	180.2	17,900		115	59.6	197.5	14,200
	105	55.7	156.6	18,800		110	57.9	177.2	16,400		120	58.1	194.5	13,000
	110	53.8	153.0	17,300		115	56.2	173.9	15,000		125	56.5	191.3	11,900
	115	51.8	149.2	15,900		120	54.4	170.5	13,800		130	54.9	187.9	10,800
	120	49.7	145.1	14,700		125	52.6	166.8	12,600		135	53.3	184.3	9,900
	125	47.6	140.7	13,600		130	50.8	162.8	11,600		140	51.7	180.4	9,000
	130	45.4	136.0	12,500		135	48.9	158.6	10,700		145	50.0	176.4	8,200
	135	43.1	130.9	11,600		140	47.0	154.1	9,800		150	48.3	172.1	7,400
	140	40.7	125.3	10,700		145	45.0	149.3	9,000		155	46.5	167.5	6,700
	145	38.2	119.2	9,900		150	43.0	144.1	8,200		160	44.7	162.6	6,100
	150	35.6	112.6	9,100		155	40.8	138.5	7,500		165	42.8	157.3	5,500
	155	32.8	105.2	8,400		160	38.6	132.5	6,800		170	40.9	151.8	4,900
	160	29.7	97.0	7,800		165	36.2	126.0	6,200		175	38.8	145.8	4,300
	165	26.3	87.6	7,200		170	33.7	118.8	5,700		180	36.7	139.3	3,800
	170	22.4	76.5	6,600		175	31.0	110.9	5,100		185	34.5	132.3	3,300
	175	17.8	62.9	6,100		180	28.1	102.1	4,600					
						185	24.9	92.1	4,100					
						190	21.3	80.4	3,700					
						195	16.9	65.9	3,200					