MANITOWOC ENGINEERING CO.
A Division of The Manitowoc Company, Inc. Manitowoc, Wisconsin 54220

LIFTCRANE CAPACITIES

MEETS ANSI B30.5 REQUIREMENTS

3900 CRAWLER

BOOM NO. 8 WITH OPEN THROAT TOP
74,000 LB. COUNTERWEIGHT

LIFTING CAPACITIES: 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 shown by shaded areas.

Upper boom point capacity (whip line) for single part line is 22,500 lbs. (20,000 lbs. when rear auxiliary drum is used). In all cases, upper boom point capacities cannot exceed those listed for the main boom capacity.

Capacities are shown in pounds. Weight of jib, (see chart A), all load blocks, hooks, weight ball, slings, hoist lines, etc., beneath boom and jib point sheaves, is to be 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. See boom raising capability chart.

OPERATING CONDITIONS: Machine to operate in a level position on a firm surface with gantry in working position and be rigged in accordance with and under conditions referred to in rigging drawing No. 48029 or No. 48237 and load line specification chart No. 4899.

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.

OPERATING RADIUS: Operating radius is the horizontal distance from the axis of rotation to the center of vertical hoist line or load block with the load freely suspended. Add 11" to boom point radius for radius of sheave when using single part hoist line.

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: Boom point elevation, in feet, is the vertical distance from ground level to centerline of boom point shaft.

MACHINE EQUIPMENT: Machine equipped with 20'4" crawlers, 38" or 48" treads, 15' retractable gantry, 10 or 12 part boom hoist reeving, two 1-1/2" boom pendants, 1st ctwt. = 32,000 lbs., 2nd ctwt. = 26,500 lbs., 3rd ctwt. = 15,500 lbs.

HOIST REEVING FOR MAIN LOAD BLOCK					
No. Parts of Line	1	2	3	4	5
Maximum Load — Lbs.	22,500	45,000	67,500	90,000	112,500
No. Parts of Line	6	7	8	9	
Maximum Load — Lbs.	135,000	157,500	180,000	200,000	

LOAD AND WHIP LINE SPECIFICATIONS	
LOAD LINE:	1" — 6x25 Filler Wire, Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 44.9 Ton. (Approx. Weight Per Ft. in Lbs. 1.85)
WHIP LINE:	1" — 6x25 Filler Wire, Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 44.9 Ton. Maximum Load — 22,500 lbs. per Line. (Approx. Weight Per Ft. in Lbs. 1.85)

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED					
	OVER FRONT OF BLOCKED CRAWLERS			OVER SIDE OF CRAWLERS	
Bm. Lgth.	Jib No. 123	Jib No. 124	Bm. Lgth.	Jib. No. 123	Jib No. 124
210'	—	—	190'	—	—
200'	—	—	180'	—	30'
190'	30'	60'	170'	30'	60'
180'	50'	60'	160'	60'	60'
170'	60'	60'			
Load block, hook and weight ball on ground at start.					

(A) DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED		
Jib Lgth.	Jib No. 123	Jib No. 124
30'	2,500 Lb.	1,800 Lb.
40'	3,100 Lb.	2,050 Lb.
50'	3,700 Lb.	2,300 Lb.
60'	4,400 Lb.	2,500 Lb.

For jib capacities, consult jib chart.

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:
60	15	79.1	65.6	200,000
	16	78.1	65.4	200,000
	17	77.1	65.1	180,200
	18	76.1	64.9	163,400
	19	75.2	64.7	149,400
	20	74.2	64.4	137,500
	22	72.2	63.8	118,600
	24	70.1	63.1	104,100
	26	68.1	62.3	92,700
	28	66.0	61.5	83,400
	30	63.9	60.5	75,800
	32	61.8	59.5	69,400
	34	59.6	58.4	63,900
	36	57.3	57.2	59,200
	38	55.0	55.8	55,100
	40	52.7	54.4	51,500
	45	46.4	50.1	44,200
	50	39.4	44.7	38,500
	55	31.1	37.6	34,100
	60	20.0	27.2	30,500
70	15	80.6	75.7	200,000
	16	79.8	75.6	200,000
	17	79.0	75.4	179,900
	18	78.1	75.2	163,100
	19	77.3	74.9	149,100
	20	76.5	74.7	137,200
	22	74.8	74.2	118,200
	24	73.1	73.6	103,700
	26	71.4	73.0	92,300
	28	69.6	72.3	83,000
	30	67.9	71.5	75,400
	32	66.1	70.6	69,000
	34	64.3	69.7	63,500
	36	62.5	68.7	58,800
	38	60.6	67.6	54,700
70	40	58.7	66.5	51,100
	45	53.8	63.1	43,800
	50	48.5	59.1	38,100
	55	42.8	54.2	33,700
	60	36.4	48.2	30,000
	65	28.7	40.3	27,100
	70	18.5	28.9	24,500
80	16	81.1	85.7	200,000
	17	80.4	85.5	179,700
	18	79.6	85.4	162,900
	19	78.9	85.2	148,800
	20	78.2	85.0	137,000
	22	76.7	84.5	118,000
	24	75.2	84.0	103,500
	26	73.8	83.5	92,000
	28	72.3	82.9	82,800
	30	70.8	82.2	75,100
	32	69.2	81.5	68,700
	34	67.7	80.7	63,200
	36	66.1	79.8	58,500
	38	64.6	78.9	54,400
	40	63.0	77.9	50,800
	45	58.9	75.1	43,500
	50	54.6	71.8	37,800
	55	50.0	68.0	33,300
	60	45.2	63.4	29,700
	65	39.9	58.0	26,700
	70	33.9	51.3	24,200
	75	26.9	42.8	22,100
	80	17.3	30.5	20,200
90	18	80.8	95.5	162,600
	19	80.2	95.3	148,500
	20	79.5	95.2	136,600
	22	78.2	94.8	117,600
	24	76.9	94.3	103,100
	26	75.6	93.8	91,700
	28	74.3	93.3	82,400
	30	73.0	92.7	74,700
	32	71.6	92.1	68,300
	34	70.3	91.4	62,800
	36	68.9	90.6	58,100
	38	67.5	89.8	54,000
	40	66.2	89.0	50,400
	45	62.6	86.6	43,000
	50	59.0	83.8	37,400
	55	55.2	80.6	32,900
	60	51.2	76.8	29,300
	65	47.0	72.5	26,300
	70	42.5	67.4	23,800
	75	37.5	61.5	21,600
	80	31.9	54.3	19,800
	85	25.3	45.1	18,200
	90	16.3	31.9	16,700
100	19	81.2	105.5	148,400
	20	80.6	105.3	136,500
	22	79.4	105.0	117,500
	24	78.2	104.6	103,000
	26	77.1	104.1	91,500
	28	75.9	103.6	82,300
	30	74.7	103.1	74,600
	32	73.5	102.5	68,200
	34	72.3	101.9	62,700
	36	71.1	101.3	58,000
	38	69.9	100.6	53,900
	40	68.7	99.8	50,200
	45	65.6	97.7	42,900
	50	62.4	95.3	37,200
	55	59.1	92.5	32,800
	60	55.7	89.3	29,100
	65	52.1	85.6	26,100
	70	48.4	81.5	23,600
	75	44.5	76.7	21,500
	80	40.2	71.2	19,600
	85	35.5	64.8	18,000
	90	30.3	57.0	16,600
	95	24.0	47.3	15,300
	100	15.5	33.3	14,200

Capacities continued on reverse side.

REFERENCE ONLY

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SEE CONDITIONS ON REVERSE SIDE

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:
110	22	80.4	115.1	117,200
	24	79.3	114.8	102,700
	26	78.3	114.4	91,200
	28	77.2	113.9	82,000
	30	76.1	113.4	74,300
	32	75.1	112.9	67,900
	34	74.0	112.4	62,400
	36	72.9	111.8	57,700
	38	71.8	111.1	53,500
	40	70.7	110.5	49,900
	45	67.9	108.6	42,600
	50	65.1	106.4	36,900
	55	62.2	103.9	32,400
	60	59.2	101.1	28,800
	65	56.1	97.9	25,800
	70	52.9	94.4	23,300
	75	49.5	90.4	21,100
	80	46.0	85.8	19,300
	85	42.3	80.7	17,600
	90	38.3	74.8	16,200
	95	33.8	67.9	15,000
	100	28.8	59.7	13,800
	105	22.8	49.4	12,800
120	22	81.2	125.2	112,500
	24	80.2	124.9	102,400
	26	79.3	124.6	90,900
	28	78.3	124.2	81,600
	30	77.3	123.7	73,900
	32	76.3	123.3	67,500
	34	75.3	122.7	62,000
	36	74.3	122.2	57,300
	38	73.4	121.6	53,200
	40	72.4	121.0	49,500
	45	69.8	119.3	42,200
	50	67.3	117.3	36,500
	55	64.7	115.1	32,000
	60	62.0	112.6	28,400
	65	59.2	109.8	25,400
	70	56.4	106.6	22,900
	75	53.5	103.1	20,700
	80	50.5	99.2	18,900
	85	47.3	94.8	17,200
	90	44.0	90.0	15,800
	95	40.4	84.4	14,500
	100	36.6	78.2	13,400
	105	32.4	70.9	12,400
	110	27.6	62.2	11,500
	115	21.9	51.3	10,700
130	24	81.0	135.0	102,200
	26	80.1	134.7	90,700
	28	79.2	134.4	81,400
	30	78.3	134.0	73,700
	32	77.4	133.5	67,300
	34	76.5	133.1	61,800
	36	75.6	132.6	57,100
	38	74.7	132.0	53,000
	40	73.8	131.5	49,300
	45	71.4	129.9	42,000
	50	69.1	128.1	36,300
	55	66.7	126.1	31,800
	60	64.3	123.8	28,200
	65	61.8	121.3	25,200
	70	59.3	118.4	22,700
	75	56.7	115.3	20,500
	80	54.0	111.9	18,600
	85	51.2	108.0	17,000
	90	48.4	103.8	15,600
	95	45.3	99.1	14,300
	100	42.2	93.9	13,200
	105	38.8	88.0	12,200
	110	35.1	81.4	11,300
	115	31.0	73.7	10,400
	120	26.5	64.6	9,700
	125	21.0	53.2	9,000
140	26	80.8	144.9	90,400
	28	80.0	144.5	81,100
	30	79.1	144.1	73,400
	32	78.3	143.8	67,000
	34	77.5	143.3	61,500
	36	76.6	142.9	56,800
	38	75.8	142.4	52,600
	40	74.9	141.8	49,000
	45	72.8	140.4	41,600
	50	70.7	138.8	36,000
	55	68.5	136.9	31,500
	60	66.3	134.8	27,800
	65	64.0	132.5	24,800
	70	61.7	129.9	22,300
	75	59.3	127.1	20,200
	80	56.9	124.0	18,300
	85	54.5	120.6	16,700
	90	51.9	116.8	15,200
	95	49.3	112.7	14,000
	100	46.5	108.2	12,800
	105	43.6	103.2	11,800
	110	40.6	97.7	10,900
	115	37.3	91.5	10,100
	120	33.8	84.5	9,300
	125	29.9	76.4	8,600
	130	25.5	66.9	8,000
	135	20.2	55.0	7,400

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:
150	28	80.6	154.7	80,800
	30	79.9	154.3	73,100
	32	79.1	153.9	66,600
	34	78.3	153.5	61,100
	36	77.5	153.1	56,400
	38	76.8	152.7	52,300
	40	76.0	152.2	48,600
	45	74.0	150.8	41,300
	50	72.0	149.3	35,600
	55	70.0	147.6	31,100
	60	67.9	145.7	27,500
	65	65.8	143.5	24,400
	70	63.7	141.2	21,900
	75	61.6	138.6	19,800
	80	59.4	135.8	17,900
	85	57.1	132.7	16,300
	90	54.8	129.3	14,800
	95	52.5	125.6	13,600
	100	50.0	121.6	12,400
	105	47.5	117.2	11,400
	110	44.8	112.4	10,500
	115	42.1	107.1	9,700
	120	39.1	101.3	8,900
	125	36.0	94.8	8,200
	130	32.6	87.5	7,600
	135	28.9	79.0	7,000
	140	24.6	69.1	6,500
	145	19.5	56.8	6,000
160	30	80.5	164.5	72,800
	32	79.8	164.1	66,400
	34	79.1	163.7	60,900
	36	78.3	163.3	56,200
	38	77.6	162.9	52,000
	40	76.9	162.5	48,400
	45	75.0	161.2	41,000
	50	73.2	159.8	35,300
	55	71.3	158.2	30,900
	60	69.4	156.4	27,200
	65	67.4	154.4	24,200
	70	65.5	152.2	21,700
	75	63.5	149.9	19,500
	80	61.5	147.3	17,600
	85	59.4	144.4	16,000
	90	57.3	141.3	14,600
	95	55.2	138.0	13,300
	100	53.0	134.4	12,200
	105	50.7	130.4	11,200
	110	48.3	126.2	10,300
	115	45.9	121.5	9,400
	120	43.3	116.5	8,700
	125	40.7	110.9	8,000
	130	37.8	104.8	7,300
	135	34.8	98.0	6,700
	140	31.5	90.3	6,200
	145	27.9	81.6	5,700
	150	23.8	71.3	5,200
	155	18.9	58.5	4,800
170	30	81.1	174.6	67,500
	32	80.4	174.3	66,100
	34	79.7	173.9	60,600
	36	79.0	173.5	55,800
	38	78.3	173.1	51,700
	40	77.6	172.7	48,100
	45	75.9	171.5	40,700
	50	74.2	170.2	35,000
	55	72.4	168.7	30,500
	60	70.6	167.0	26,900
	65	68.8	165.2	23,900
	70	67.0	163.2	21,300
	75	65.2	160.9	19,200
	80	63.3	158.5	17,300
	85	61.4	155.9	15,700
	90	59.5	153.1	14,200
	95	57.5	150.0	13,000
	100	55.5	146.7	11,800
	105	53.4	143.1	10,800
	110	51.3	139.3	9,900
	115	49.1	135.1	9,100
	120	46.8	130.6	8,300
	125	44.4	125.7	7,600
	130	42.0	120.4	7,000
	135	39.4	114.5	6,400
	140	36.7	108.2	5,800
	145	33.7	101.1	5,300
	150	30.6	93.1	4,900
	155	27.1	84.0	4,400
	160	23.1	73.3	4,000
	165	18.3	60.1	3,600

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:
180	32	80.9	184.4	65,700
	34	80.3	184.1	60,200
	36	79.6	183.7	55,500
	38	79.0	183.3	51,300
	40	78.3	182.9	47,700
	45	76.7	181.8	40,300
	50	75.1	180.6	34,600
	55	73.4	179.2	30,100
	60	71.7	177.6	26,500
	65	70.1	175.9	23,500
	70	68.4	174.0	20,900
	75	66.6	171.9	18,800
	80	64.9	169.6	16,900
	85	63.1	167.2	15,300
	90	61.3	164.6	13,800
	95	59.5	161.7	12,600
	100	57.6	158.7	11,400
	105	55.7	155.4	10,400
	110	53.8	151.9	9,500
	115	51.8	148.1	8,700
	120	49.7	144.0	7,900
	125	47.6	139.6	7,200
	130	45.4	134.8	6,600
	135	43.1	129.7	6,000
	140	40.7	124.1	5,400
	145	38.2	118.1	4,900
	150	35.6	111.4	4,500
	155	32.8	104.1	4,000
	160	29.7	95.8	3,600
	165	26.3	86.4	3,200
190	34	80.8	194.2	60,000
	36	80.2	193.9	55,200
	38	79.6	193.5	51,100
	40	79.0	193.1	47,500
	45	77.4	192.1	40,100
	50	75.9	190.9	34,400
	55	74.3	189.6	29,900
	60	72.7	188.1	26,200
	65	71.2	186.5	23,200
	70	69.6	184.7	20,700
	75	67.9	182.7	18,500
	80	66.3	180.6	16,600
	85	64.6	178.3	15,000
	90	63.0	175.9	13,600
	95	61.3	173.2	12,300
	100	59.5	170.4	11,200
	105	57.8	167.4	10,200
	110	56.0	164.1	9,200
	115	54.1	160.6	8,400
	120	52.2	156.8	7,600
	125	50.3	152.8	6,900
	130	48.3	148.5	6,300
	135	46.3	143.9	5,700
	140	44.1	139.0	5,200
	145	41.9	133.6	4,700
	150	39.6	127.8	4,200
	155	37.2	121.5	3,800
	160	34.6	114.6	3,400
	165	31.9	106.9	3,000
200	36	80.7	204.0	54,900
	38	80.1	203.7	50,800
	40	79.5	203.3	47,100
	45	78.1	202.3	39,700
	50	76.6	201.2	34,000
	55	75.1	199.9	29,500
	60	73.6	198.5	25,900
	65	72.1	197.0	22,900
	70	70.6	195.3	20,300
	75	69.1	193.5	18,200
	80	67.6	191.5	16,300
	85	66.0	189.4	14,700
	90	64.4	187.0	13,200
	95	62.8	184.6	12,000
	100	61.2	181.9	10,800
	105	59.5	179.1	9,800
	110	57.9	176.0	8,900
	115	56.2	172.8	8,000
	120	54.4	169.3	7,300
	125	52.6	165.6	6,600
	130	50.8	161.7	6,000
	135	48.9	157.5	5,400
	140	47.0	152.9	4,800
	145	45.0	148.1	4,300
	150	43.0	142.9	3,800
	155	40.8	137.4	3,400
	160	38.6	131.3	3,000

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:
210	36	81.1	214.1	54,600
	38	80.6	213.8	50,400
	40	80.0	213.5	46,800
	45	78.6	212.5	39,400
	50	77.2	211.5	33,700
	55	75.8	210.3	29,200
	60	74.4	208.9	25,500
	65	73.0	207.5	22,500
	70	71.6	205.9	19,900
	75	70.1	204.2	17,800
	80	68.7	202.3	15,900
	85	67.2	200.2	14,300
	90	65.7	198.1	12,800
	95	64.2	195.7	11,600
	100	62.7	193.2	10,400
	105	61.1	190.6	9,400
	110	59.6	187.7	8,500
	115	58.0	184.7	7,700
	120	56.3	181.5	6,900
	125	54.7	178.0	6,200
	130	53.0	174.4	5,600
	135	51.3	170.5	5,000
	140	49.5	166.3	4,400
	145	47.7	161.9	3,900
	150	45.8	157.2	3,500
	155	43.9	152.2	3,000

REFERENCE ONLY

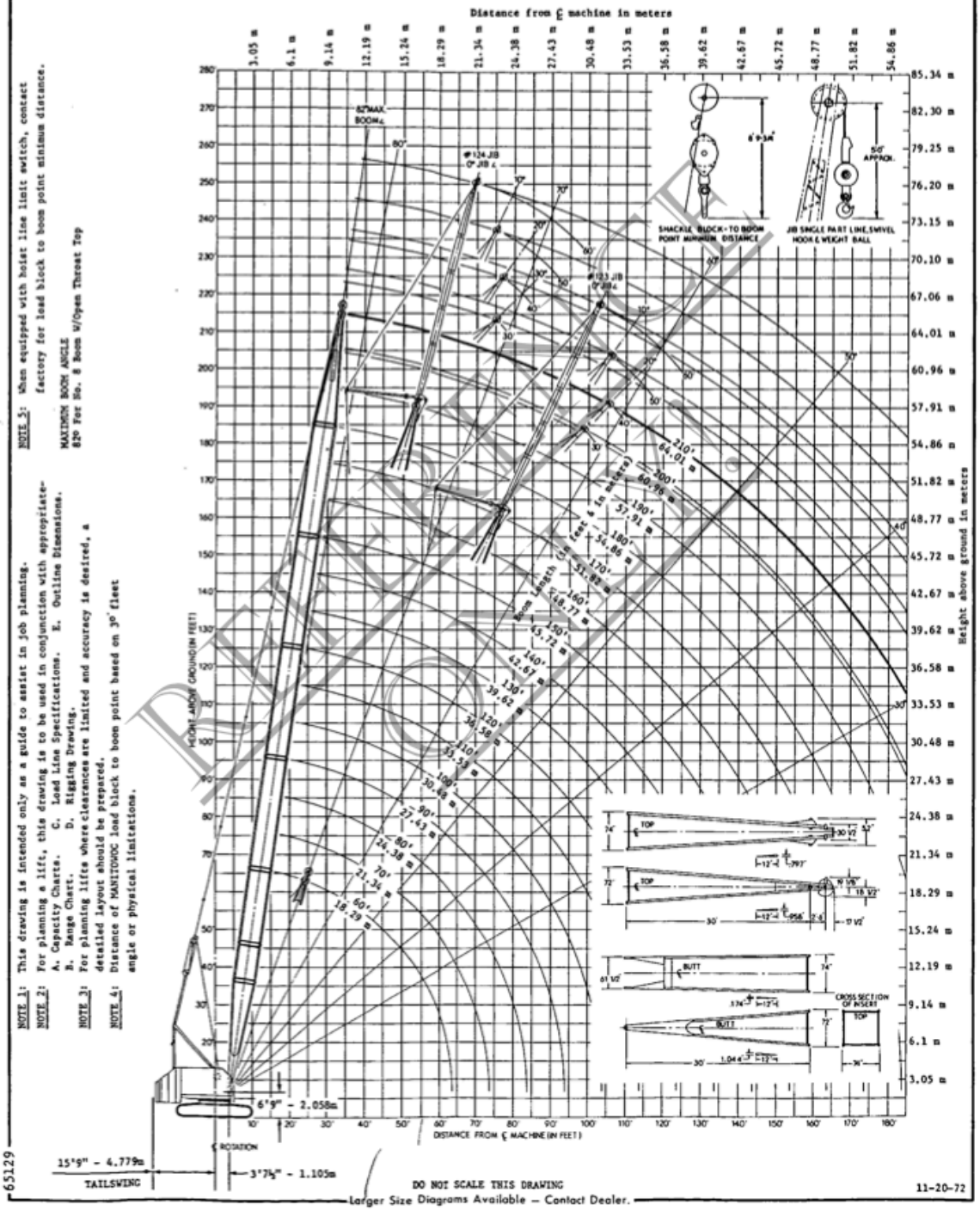
Combined From Charts:

No. 6292-A	*3-30-81*
No. 4779	*2-18-80*
No. 4899	*2-18-80*

SEE CONDITIONS ON REVERSE SIDE

MANITOWOC ENGINEERING CO.

A Division of The Manitowoc Company, Inc. — Manitowoc, Wisconsin



NOTE 1: This drawing is intended only as a guide to assist in job planning.

NOTE 2: For planning a lift, this drawing is to be used in conjunction with appropriate-
A. Capacity Charts. C. Load Line Specifications. E. Outline Dimensions.
B. Range Chart. D. Rigging Drawing.

NOTE 3: For planning lifts where clearances are limited and accuracy is desired, a detailed layout should be prepared.

NOTE 4: Distance of MANITOWOC load block to boom point based on 30° fleet angle or physical limitations.

NOTE 5: When equipped with hoist line limit switch, contact factory for load block to boom point minimum distance.

MAXIMUM BOOM ANGLE
82° For No. 8 Boom W/Open Throat Top

65129

DO NOT SCALE THIS DRAWING

Larger Size Diagrams Available — Contact Dealer.

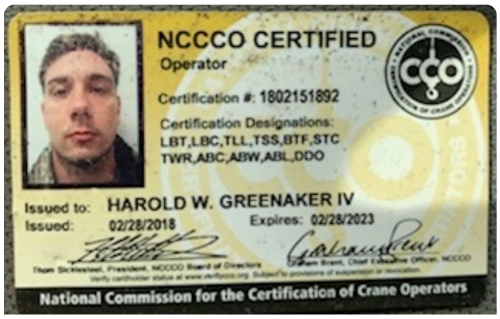
11-20-72

RANGE DIAGRAM-M3900-No.8 BOOM-123/124 JIB

27,117 lbs **ASME**

lbs x 1,000

ft	42.0 ft*	42.0 ft	56.1 ft	70.2 ft	84.6 ft	98.8 ft	112.9 ft	127.0 ft	141.1 ft	155.5 ft	169.6 ft	183.7 ft	196.9 ft
8.9	264.6**												
9.8	232.8**	225.5**	198.4	198.4									
11.5	210.8	205.3	198.4	198.4	154.3								
13.1	192.5	187.0	186.5	185.2	154.3								
14.8	176.8	169.1	168.4	167.3	154.3	119.7							
16.4	163.4	153.7	154.5	152.1	153.4	113.1	97.0						
19.7	142.4	129.2	130.1	129.9	119.7	110.2	93.3	72.3					
23.0	120.2	110.5	111.3	104.9	101.0	93.0	84.7	72.3	59.7				
26.2	92.2	89.7	90.6	86.6	84.2	80.9	75.6	69.7	59.7	47.2			
29.5	73.6	72.5	73.4	72.3	70.8	69.7	64.4	59.5	56.7	47.2	36.6		
32.8	60.6	60.0	60.8	61.3	63.9	60.2	55.6	51.4	50.9	47.2	36.6	29.1	
36.1			53.6	55.6	55.8	52.7	48.7	48.3	45.0	41.9	36.6	29.1	23.4
39.4			45.4	47.4	47.6	46.5	43.0	43.0	39.9	39.5	36.6	29.1	23.4
45.9			34.2	35.9	36.2	35.7	37.0	34.6	34.4	32.4	31.5	29.1	23.4
52.5				28.2	29.3	28.0	29.3	28.0	28.4	28.2	26.7	24.7	23.4
59.1				22.9	24.5	22.5	24.7	23.4	24.5	23.8	22.3	20.5	20.1
65.6					20.3	19.2	20.9	20.5	20.1	19.6	19.0	17.2	17.0
72.2					17.0	17.2	17.6	17.2	16.8	16.3	15.7	14.6	14.3
78.7						14.6	15.0	14.6	14.1	13.7	13.0	11.9	11.9
85.3						12.3	12.8	12.3	12.1	11.5	10.8	9.7	9.7
91.9							11.0	10.6	10.1	9.7	9.0	7.9	7.9
98.4							9.5	9.0	8.6	8.2	7.5	6.4	6.4
105.0							8.2	7.7	7.5	6.8	6.2	5.1	5.3
111.5								6.6	6.2	5.7	5.1	4.0	4.0
118.1								5.7	5.3	4.6	4.0	3.1	3.1
124.7									4.4	3.7	3.1	2.2	2.2
131.2									3.7	3.1	2.4		
137.8										2.4			



NCCCO CERTIFIED

Operator

Certification #: 1802151892

Certification Designations:
LBT,LBC,TLL,TSS,BTF,STC
TWR,ABC,ABW,ABL,DDO

Issued to: HAROLD W. GREENAKER IV

Issued: 02/28/2018 Expires: 02/28/2023

Thom Sicklesteel, President, NCCCO Board of Directors

Graham Brent, Chief Executive Officer, NCCCO

Verify certificate status at www.verifycco.org. Subject to provisions of suspension or revocation.

National Commission for the Certification of Crane Operators

Form MCSA-5876

OMB No. 2126-0006 Expiration Date: 8/31/2018

Public Burden Statement

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a current valid OMB Control Number. The OMB Control Number for this information collection is 2126-0006. Public reporting for this collection of information is estimated to be approximately 15 minutes per response, including the time for reviewing instructions, gathering the data needed, and completing and reviewing the collection of information. All responses to this collection of information are mandatory. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden to: Information Collection Clearance Officer, Federal Motor Carrier Safety Administration, MC-RRS, 1200 New Jersey Avenue, SE, Washington, D.C. 20590.

U.S. Department of Transportation
Federal Motor Carrier
Safety Administration

Medical Examiner's Certificate

(for Commercial Driver Medical Certification)

I certify that I have examined **Last Name:** Greenaker **First Name:** Harold in accordance with *(please check only one)*:

- (●) the Federal Motor Carrier Safety Regulations (49 CFR 391.41-391.49) and, with knowledge of the driving duties, I find this person is qualified, and, if applicable, only when *(check all that apply)*: OR
- ( ) the Federal Motor Carrier Safety Regulations (49 CFR 391.41-391.49) with any applicable State variances (which will only be valid for intrastate operations), and, with knowledge of the driving duties, I find this person is qualified, and, if applicable, only when *(check all that apply)*:

☐ Wearing corrective lenses ☐ Accompanied by a _____ waiver/exemption ☐ Driving within an exempt intracity zone (49 CFR 391.62) *(Federal)*
☐ Wearing hearing aid ☐ Accompanied by a Skill Performance Evaluation (SPE) Certificate ☐ Qualified by operation of 49 CFR 391.64 *(Federal)*
☐ Grandfathered from State requirements *(State)*

The information I have provided regarding this physical examination is true and complete. A complete Medical Examination Report Form, MCSA-5875, with any attachments embodies my findings completely and correctly, and is on file in my office.

Medical Examiner's Certificate Expiration Date: 5-2-20

Medical Examiner's Signature: [signature]

Medical Examiner's Name *(please print or type)*: Jason Wabbel

Medical Examiner's State License, Certificate, or Registration Number: ME 5161149

Medical Examiner's Telephone Number: 321-636-0065

Date Certificate Signed: 5-2-18

(●) MD ( ) DO ( ) Physician Assistant ( ) Chiropractor ( ) Advanced Practice Nurse ( ) Other Practitioner *(specify)*: _____

Issuing State: FL

National Registry Number: 6461065499

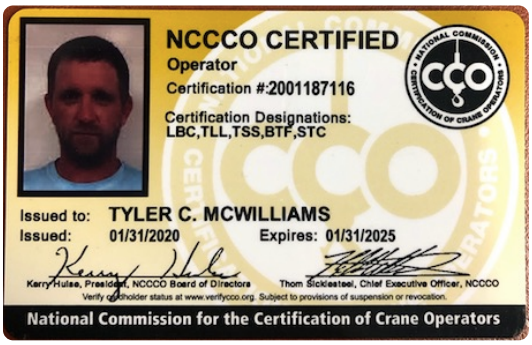
Driver's Signature: [signature]

Driver's Address
Street Address: 1901 Sellers Ferry Rd City: Selma State/Province: AL Zip Code: 36701

Driver's License Number: [redacted] **Issuing State/Province:** NC

CLP/CDL Applicant/Holder: (●) Yes ( ) No

This document contains sensitive information and is for official use only. Improper handling of this information could negatively affect individuals. Handle and secure this information appropriately to prevent inadvertent disclosure by keeping the documents under the control of authorized persons. Properly dispose of this document when no longer required to be maintained by regulatory requirements.



NCCCO CERTIFIED
Operator
Certification #:2001187116
Certification Designations:
LBC,TLL,TSS,BTF,STC

Issued to: TYLER C. MCWILLIAMS
Issued: 01/31/2020 Expires: 01/31/2025

Kerry Hulse, President, NCCCO Board of Directors
Thom Sickelsteel, Chief Executive Officer, NCCCO
Verify holder status at www.verifycco.org. Subject to provisions of suspension or revocation.

National Commission for the Certification of Crane Operators

Form MCSA-5876 OMB No. 2126-0006 Expiration Date: 11/30/2021

Public Burden Statement
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U.S. Department of Transportation
Federal Motor Carrier Safety Administration

Medical Examiner's Certificate

(For Commercial Driver Medical Certification)

I certify that I have examined Last Name McWilliams First Name Tyler in accordance with *(please check only one)*:

● the Federal Motor Carrier Safety Regulations (49 CFR 391.41-391.49) and, with knowledge of the driving duties, I find this person is qualified, and, if applicable, only when *(check all that apply)* **OR**
○ the Federal Motor Carrier Safety Regulations (49 CFR 391.41-391.49) with any applicable State variances (which will only be valid for intrastate operations), and, with knowledge of the driving duties, I find this person is qualified, and, if applicable, only when *(check all that apply)*:

☐ Wearing corrective lenses ☐ Wearing hearing aid
☐ Accompanied by a _____ waiver/exemption ☐ Accompanied by a Skill Performance Evaluation (SPE) Certificate
☐ Driving within an exempt intracity zone (49 CFR 391.62) *(Federal)*
☐ Qualified by operation of 49 CFR 391.64 *(Federal)*
☐ Grandfathered from State requirements *(State)*

The information I have provided regarding this physical examination is true and complete. A complete Medical Examination Report Form, MCSA-5875, with any attachments embodies my findings completely and correctly, and is on file in my office.

Medical Examiner's Certificate Expiration Date
07/24/2021

Medical Examiner's Signature

Medical Examiner's Name *(please print or type)*
Quillian, Cathleen

Medical Examiner's Telephone Number
(727)532-7661

Date Certificate Signed
07/24/2019

○ MD ○ Physician Assistant ○ Advanced Practice Nurse
● DO ○ Chiropractor ○ Other Practitioner *(specify)* _____

Medical Examiner's State License, Certificate, or Registration Number
O515907

Issuing State
FL

National Registry Number
5651761143

Driver's Signature

Driver's License Number
M245803844220

Issuing State/Province
FL

Driver's Address
Street Address: 1338 Friend Avenue City: CLEARWATER State/Province: FL Zip Code: 33756

CLP/CDL Applicant/Holder
● Yes ○ No

This document contains sensitive information and is for official use only. Improper handling of this information could negatively affect individuals. Handle and secure this information appropriately to prevent inadvertent disclosure by keeping the documents under the control of authorized persons. Properly dispose of this document when no longer required to be maintained by regulatory requirements.

TADANO	INSPECTION CERTIFICATE	Cert 2069180

We hereby certify, that the crane described on following pages has been duly inspected and passed the inspection in accordance with our standards of quality and judgement.

Manufacturer	:	**TADANO FAUN GmbH**
Vehicle model	:	**ATF 130G-5**
Vehicle identification no.	:	**WFN5RUZV8K2069180**
Carrier engine no.	:	**Mercedes Benz** **OM471LA 390KW LFU** **471.919-C 0419424**
Superstructure engine no.	:	**Mercedes Benz** **OM934LA 129kW LFU** **933.911-C 0142936**

29.10.2018

Date of issue

TADANO FAUN GmbH
Faunbergg 2, 91207 Lauf
www.tadanofaun.de

N. Schäfer
General Manager
Quality dep.

TADANO FAUN GmbH
Faunbergg 2, 91207 Lauf
www.tadanofaun.de

T. Urbanczyk
General Manager
Production dep.

RESULT OF INSPECTION

1. Dimension

2. Weight

3. Painting

4. Operation

4.1 Components carrier

4.2 Components superstructure

4.3 Safety devices

4.4 Working speed

5. Load tests

5.1 Stability test

5.2 Strength test

1. Dimension

	Specification (mm)	Judgement
Overall length (incl. 2. Winch)	15 455	okay
Overall height	3 974	okay
Overall width	3 000	okay

2. Weight (road traffic modification)

	Specification (kg)	Measured (kg)	Judgement
Gross vehicle weight	60 000	57 160	okay
1st axle	12 000	11 640	okay
1st + 2nd axle	24 000	23 360	okay
1st + 2nd + 3rd axle	36 000	34 600	okay
4th + 5th axle	24 000	22 580	okay

3. Painting

(checked by TFG internal paint check protocol)

Item	Judgement
Superstructure	okay
Carrier	okay

4. Operation

Item	*Judgement*
4.1 Components carrier (checked by TFG internal check- and test protocols)	
Carrier engine	okay
Gearbox / Transmission	okay
Steering	okay
Service brake	okay
Parking brake	okay
Outrigger operation	Okay
4.2 Components superstructure (checked by TFG internal check- and test protocols)	
Superstructure engine	okay
Hydraulic pump	okay
Oil cooler	okay
Water cooler	okay
Hydraulic piping	okay
Control valve hoist	okay
Control valve derrick	okay
Control valve telescope	okay
Control valve slewing	okay
Slewing gear	okay
Hydraulic motor for slewing gear	okay
Hoist	okay
Hydraulic motor for hoist	okay
Derrick cylinder	okay
Telescopic cylinder	okay

4.3 Safety devices (checked by TFG internal check- and test protocols)

Automatic safe load indicator limiter	okay
Counterbalance valve hoist	okay
Automatic brake hoist	okay
Wire rope over-payoff cutout device	okay
Over-winding cutout device	okay
Counterbalance valve derrick cylinder	okay
Levelling device	okay
Hook safety latch	okay

4.4 Working speed

	Specification	Measured	Judgement
Derricking up from 0° to 84,5° high (sec.)	48	42	okay
Telescope extending high speed (sec.)	500	444	okay
Hoist high speed (turn/min)	52	51	okay
Slewing (sec/turn)	40	37	okay

5. Load Tests

We hereby certify that the crane has been duly tested and met minimum requirements of SAE J 1063 and J 765 required by ANSI B30.5

Outriggers are extended fully: 24,6 ft 7,5 m
Counterweight: 93,48 lbs 42,4 t

Note: Test load is calculated by the following formula and includes the mass of lifting hook and slings.
Test load = 1,25 x P for strength test
Test load = 1,18 x P for stability test
P = Rated lifting capacity

5.1 Stability Test

boom length / state ft / m	jib length / offset ft / m °	Test load 1000 lbs / t	working radius ft / m	Judgement
196,9 / 60,0 100 / 100 / 100 / 100 / 100	- / - -	**8,25** / 3,74	**162,9** / 49,7	okay
196,9 / 60,0 100 / 100 / 100 / 100 / 100	**9,2** / 2,8 0	**4,98** / 2,26	**179,0** / 54,6	okay
196,9 / 60,0 100 / 100 / 100 / 100 / 100	**30,2** / 9,2 0	**5,16** / 2,34	**181,9** / 55,4	okay
196,9 / 60,0 100 / 100 / 100 / 100 / 100	**55,8** / 17,0 0	**5,16** / 2,34	**186,8** / 56,9	okay
196,9 / 60,0 100 / 100 / 100 / 100 / 100	**78,7** / 24,0 0	**4,10** / 1,86	**200,1** / 61,0	okay

5.2 Strength Test

boom length / state ft / m	jib length / offset ft / m °	Test load 1000 lbs / t	working radius ft / m	Judgement
56,2 / 17,1 0 / 0 / 46 / 0 / 0	- / - -	**139,20** / 63,14	**26,9** / 8,2	okay
42,0 / 12,8 0 / 0 / 0 / 0 / 0	**9,2** / 2,8 0	**56,00** / 25,40	**43,2** / 13,2	okay
42,0 / 12,8 0 / 0 / 0 / 0 / 0	**9,2** / 2,8 40	**56,00** / 25,40	**27,2** / 8,3	okay
42,0 / 12,8 0 / 0 / 0 / 0 / 0	**30,2** / 9,2 0	**20,59** / 9,34	**59,3** / 18,1	okay
42,0 / 12,8 0 / 0 / 0 / 0 / 0	**55,8** / 17,0 0	**9,57** / 4,34	**70,6** / 21,5	okay
42,0 / 12,8 0 / 0 / 0 / 0 / 0	**78,7** / 24,0 0	**6,26** / 2,84	**96,1** / 29,3	okay

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42,0 / 12,8 0/0/0/0/0	101,7 / 31,0 0	4,10 / 1,86	105,8 / 32,2	okay