

# LIFTCRANE CAPACITIES

MEETS  
ANSI B30.5  
REQUIREMENTS

# 4000W CRAWLER

## BOOM NO. 22 WITH OPEN THROAT TOP 24' 0" CRAWLERS — 104,400 LB. COUNTERWEIGHT

**LIFTING CAPACITIES:** Capacities for various boom lengths and operating radii may be based on per cent of tipping, strength of structural components, operating speeds and other factors.

Capacities are for freely suspended loads and do not exceed 75% of static tipping loads. Capacities based on structural competence are shown by shaded areas.

Capacities are shown in pounds. Deduct 1200 pounds from capacities listed when single sheave upper boom point is attached and 1500 pounds when two sheave upper boom point is attached. Weight of jib, (see chart A), all load blocks, hooks, weight ball, slings, etc., 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.

**OPERATING CONDITIONS:** Machine to operate in level position on a firm surface with gantry in working position and under conditions referred to in rigging drawing No. 48168 and load line specification chart No. 5320.

Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, as well as adverse operating conditions or 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 14" 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 24' 0" extendible crawlers, 48" treads, 15' retractable gantry, 12 part boom hoist reeving, four 1-3/8" boom pendants, 1st Cwt. 40,100

lbs., 2nd Cwt. 35,800 lbs., 3rd Cwt. 28,500 lbs. Total counterweight 104,400 pounds.

HOIST REEVING FOR MAIN LOAD BLOCK						
No. Parts of Line	1	2	3	4	5	6
Max. Load — Lbs.	32,500	64,000	95,500	126,200	157,000	186,800
No. Parts of Line	7	8	9	10	11	12
Max. Load — Lbs.	215,900	243,000	267,100	281,000	294,000	300,000

LOAD AND WHIP LINE SPECIFICATIONS	
LOAD LINE: 1-1/8" — 6x31 Warrington-Seale, Extra Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 65 Ton.	
WHIP LINE: 1-1/8" — 6x25 Filler Wire, Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 56.5 Ton. Maximum Load — 28,300 lbs. per line.	

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED			
OVER FRONT OF BLOCKED CRAWLERS		OVER SIDE OF EXTENDED CRAWLERS	
Boom Length	Jib No. 123	Boom Length	Jib No. 123
220'	---	200'	---
210'	---	190'	---
200'	40'	180'	50'
190'	60'	170'	60'
OVER SIDE OF RETRACTED CRAWLERS		(A) DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
Boom Length	Jib No. 123	Jib Length	Jib No. 123
190'	---	30'	3,000 Lb.
180'	---	40'	3,600 Lb.
170'	50'	50'	4,200 Lb.
160'	60'	60'	4,900 Lb.

Load block, hook and weight ball on ground at start.

For jib capacities, consult jib chart.

Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended
17	79.0	75.8	275,000	300,000	8	50	54.6	72.3	55,000	63,100	19	81.2	105.9	224,600	243,000		
18	78.2	75.6	248,000	285,000	55	50.2	68.5	48,400	55,400	20	80.6	105.8	205,800	240,000			
19	77.3	75.4	225,600	270,100	60	45.2	63.9	43,000	49,200	22	79.4	105.4	176,100	213,100			
20	76.5	75.2	206,900	253,500	65	39.9	58.5	38,600	44,200	24	78.3	105.0	153,500	183,800			
22	74.8	74.7	177,200	214,000	70	34.0	51.8	34,900	39,900	26	77.1	104.6	135,900	161,400			
24	73.1	74.1	154,800	184,800	75	26.9	43.3	31,700	36,300	28	75.9	104.1	121,800	143,600			
26	71.4	73.4	137,200	162,500	80	17.4	31.0	29,000	33,200	30	74.7	103.6	110,100	129,200			
28	69.7	72.7	123,100	144,800	17	81.5	96.1	267,100	267,100	32	73.5	103.0	100,400	117,300			
30	67.9	72.0	111,500	130,900	18	80.8	96.0	247,400	262,000	34	72.3	102.4	92,100	107,300			
32	66.1	71.1	101,700	118,600	19	80.2	95.8	225,000	256,000	36	71.1	101.7	85,000	98,800			
34	64.3	70.2	93,500	108,600	20	79.5	95.6	206,200	250,500	38	69.9	101.0	78,800	91,400			
36	62.5	69.2	86,400	100,100	22	78.2	95.2	176,500	213,400	40	68.7	100.3	73,400	85,000			
38	60.6	68.1	80,300	92,700	24	76.9	94.8	154,000	184,200	45	65.6	98.2	62,500	72,000			
40	58.7	66.9	74,900	86,300	26	75.6	94.3	136,400	161,800	50	62.4	95.7	54,100	62,200			
45	53.8	63.6	63,900	73,400	28	74.3	93.8	122,200	144,100	55	59.1	92.9	47,400	54,500			
50	48.6	59.6	55,600	63,700	30	73.0	93.2	110,600	129,700	60	55.7	89.7	42,100	48,300			
55	42.8	54.7	49,000	56,000	32	71.7	92.5	100,900	117,800	65	52.2	86.1	37,700	43,300			
60	36.7	48.7	43,600	49,800	34	70.3	91.8	92,600	107,800	70	48.4	81.9	33,900	39,000			
65	28.8	40.8	39,200	44,800	36	68.9	91.1	85,500	99,200	75	44.5	77.2	30,800	35,400			
70	18.6	29.5	35,500	40,500	38	67.6	90.3	79,400	91,900	80	40.2	71.7	28,000	32,300			
17	80.4	86.0	274,700	294,000	40	66.2	89.4	74,000	85,500	85	35.6	65.3	25,700	29,600			
18	79.7	85.8	247,600	281,600	45	62.7	87.1	63,000	72,500	90	30.3	57.6	23,600	27,200			
19	78.9	85.6	225,200	268,800	50	59.0	84.3	54,600	62,700	95	24.0	47.8	21,700	25,200			
20	78.2	85.4	206,500	252,600	55	55.2	81.0	48,000	55,100	100	15.6	33.9	20,100	23,300			
22	76.8	85.0	176,800	213,600	60	51.2	77.3	42,700	48,900								
24	75.3	84.5	154,300	184,400	65	47.0	73.0	38,200	43,800								
26	73.8	83.9	136,700	162,100	70	42.5	67.9	34,500	39,600								
28	72.3	83.3	122,500	144,300													
30	70.8	82.6	110,900	130,000													
32	69.3	81.9	101,200	118,100													
34	67.7	81.1	93,000	108,100													
36	66.2	80.3	85,900	99,600													
38	64.6	79.4	79,700	92,200													
40	63.0	78.4	74,300	85,800													
45	58.9	75.6	63,400	72,900													

Capacities continued on reverse side.

# SEE CONDITIONS ON REVERSE SIDE

Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended
110	20	81.5	115.9	205,500	215,900	140	80	57.0	124.5	26,300	30,600	170	115	49.1	135.6	13,000	15,800
	22	80.4	115.6	175,700	212,000		85	54.5	121.1	23,900	27,900		120	46.8	131.1	11,900	14,500
	24	79.3	115.2	153,200	183,500		90	51.9	117.3	21,800	25,500		125	44.5	126.2	10,900	13,400
	26	78.3	114.8	135,600	161,100		95	49.3	113.2	20,000	23,400		130	42.0	120.9	10,000	12,300
	28	77.2	114.4	121,400	143,300		100	46.5	108.7	18,300	21,600		135	39.4	115.0	9,100	11,400
	30	76.1	113.9	109,700	128,900		105	43.6	103.7	16,900	19,900		140	36.7	108.7	8,300	10,500
	32	75.1	113.4	100,000	117,000		110	40.6	98.2	15,500	18,400		145	33.8	101.6	7,600	9,700
	34	74.0	112.8	91,700	107,000		115	37.3	92.0	14,300	17,000		150	30.6	93.6	6,900	8,900
	36	72.9	112.2	84,600	98,400		120	33.8	85.0	13,200	15,800		155	27.1	84.6	6,200	8,200
	38	71.8	111.6	78,500	91,000		125	29.9	76.9	12,200	14,700		160	23.1	73.9	5,700	7,500
	40	70.7	110.9	73,100	84,600		130	25.5	67.4	11,300	13,600		165	18.4	60.7	5,100	6,900
	45	67.9	109.0	62,100	71,600		135	20.3	55.6	10,400	12,700		32	80.9	184.9	97,300	114,500
	50	65.1	106.9	53,700	61,800		26	81.4	155.4	134,100	157,000		34	80.3	184.5	89,000	104,400
	55	62.2	104.4	47,000	54,100		28	80.7	155.1	119,900	142,000		36	79.7	184.2	81,800	95,800
	60	59.2	101.6	41,700	47,900		30	79.9	154.8	108,200	127,500		38	79.0	183.8	75,600	88,400
	65	56.1	98.4	37,200	42,900		32	79.1	154.4	98,500	115,600		40	78.4	183.4	70,200	81,900
	70	52.9	94.9	33,500	38,600		34	78.3	154.0	90,200	105,500		45	76.7	182.3	59,100	68,800
	75	49.6	90.8	30,400	35,000		36	77.6	153.6	83,100	96,900		50	75.1	181.0	50,700	59,000
	80	46.1	86.3	27,600	31,900		38	76.8	153.1	76,900	89,500		55	73.4	179.6	44,000	51,200
	85	42.3	81.2	25,300	29,200		40	76.0	152.6	71,400	83,100		60	71.8	178.1	38,600	45,000
	90	38.3	75.3	23,200	26,800		45	74.0	151.3	60,400	70,100		65	70.1	176.3	34,200	39,900
	95	33.9	68.4	21,300	24,700		50	72.0	149.8	52,000	60,200		70	68.4	174.4	30,400	35,600
	100	28.9	60.2	19,700	22,900		55	70.0	148.0	45,300	52,500		75	66.7	172.4	27,300	32,000
	105	22.9	49.9	18,200	21,200		60	67.9	146.1	40,000	46,300		80	64.9	170.1	24,500	28,800
	22	81.2	125.7	175,500	186,800		65	65.9	144.0	35,500	41,200		85	63.1	167.7	22,100	26,100
	24	80.2	125.4	153,000	163,400		70	63.8	141.6	31,800	36,900		90	61.3	165.0	20,000	23,700
	26	79.3	125.0	135,300	146,900		80	59.4	136.2	25,900	30,200		95	59.5	162.2	18,200	21,600
	28	78.3	124.6	121,100	133,100		85	57.2	133.1	23,500	27,500		100	57.6	159.2	16,500	19,800
	30	77.3	124.2	109,500	128,700		90	54.9	129.8	21,400	25,100		105	55.7	155.9	15,000	18,100
	32	76.3	123.7	99,700	116,800		95	52.5	126.1	19,500	23,000		110	53.8	152.3	13,700	16,600
	34	75.4	123.2	91,500	106,700		100	50.0	122.1	17,900	21,100		115	51.8	148.5	12,500	15,200
	36	74.4	122.7	84,400	98,200		105	47.5	117.7	16,400	19,500		120	49.7	144.5	11,300	14,000
	38	73.4	122.1	78,200	90,800		110	44.9	112.9	15,100	17,900		125	47.6	140.1	10,300	12,800
	40	72.4	121.5	72,800	84,300		115	42.1	107.6	13,800	16,600		130	45.4	135.3	9,400	11,800
	45	69.9	119.8	61,800	71,400		120	39.1	101.8	12,700	15,300		135	43.1	130.2	8,500	10,800
	50	67.3	117.8	53,400	61,500		125	36.0	95.3	11,700	14,200		140	40.8	124.6	7,700	9,900
	55	64.7	115.6	46,700	53,800		130	32.6	88.0	10,800	13,200		145	38.3	118.6	7,000	9,100
	60	62.0	113.1	41,400	47,600		135	28.9	79.6	9,900	12,200		150	35.6	111.9	6,300	8,300
	65	59.3	110.2	36,900	42,600		140	24.6	69.7	9,100	11,300		155	32.8	104.6	5,700	7,600
	70	56.4	107.1	33,200	38,300		145	19.6	57.4	8,400	10,500		160	29.7	96.3	5,100	7,000
	75	53.5	103.6	30,000	34,700		28	81.3	165.2	119,600	141,700		165	26.3	86.9	4,500	6,300
	80	50.5	99.7	27,300	31,600		30	80.5	164.9	107,900	127,300		170	22.5	75.9	4,000	5,200
	85	47.3	95.3	24,900	28,900		32	79.8	164.6	98,100	115,300		175	17.9	62.3	3,500	4,500
	90	44.0	90.5	22,800	26,500		34	79.1	164.2	89,800	105,200		32	81.4	195.0	96,900	114,100
	95	40.4	84.9	21,000	24,400		36	78.3	163.8	82,700	96,600		34	80.8	194.7	88,500	104,000
	100	36.6	78.7	19,300	22,600		38	77.6	163.4	76,500	89,200		36	80.2	194.3	81,400	95,400
	105	32.4	71.4	17,900	20,900		40	76.9	162.9	71,100	82,800		38	79.6	194.0	75,200	88,000
	110	27.6	62.7	16,500	19,400		45	75.0	161.7	60,100	69,700		40	79.0	193.6	69,700	81,500
	115	21.9	51.9	15,300	18,000		45	75.0	161.7	60,100	69,700		45	77.4	192.6	58,700	68,400
	24	81.0	135.5	152,600	183,300		50	73.2	160.2	51,600	59,900		50	75.9	191.4	50,200	58,500
	26	80.1	135.2	130,000	160,500		55	71.3	158.6	45,000	52,200		55	74.3	190.0	43,600	50,800
	28	79.2	134.8	120,800	142,800		60	69.4	156.9	39,600	45,900		60	72.8	188.6	38,200	44,600
	30	78.3	134.4	109,100	128,300		65	67.5	154.9	35,200	40,800		65	71.2	186.9	33,700	39,400
	32	77.4	134.0	99,400	116,400		70	65.5	152.7	31,400	36,600		70	69.6	185.1	30,000	35,100
	34	76.5	133.5	91,100	106,400		75	63.5	150.3	28,200	32,900		75	67.9	183.2	26,800	31,500
	36	75.6	133.0	84,000	97,800		80	61.5	147.7	25,500	29,800		80	66.3	181.1	24,000	28,400
	38	74.7	132.5	77,800	90,400		85	59.4	144.9	23,100	27,100		85	64.7	178.8	21,700	25,700
	40	73.8	131.9	72,400	84,000		90	57.3	141.8	21,000	24,700		90	63.0	176.4	19,600	23,300
	45	71.5	130.4	61,400	71,000		95	55.2	138.5	19,200	22,600		95	61.3	173.7	17,700	21,200
	50	69.1	128.6	53,000	61,100		100	53.0	134.9	17,500	20,800		100	59.5	170.9	16,000	19,300
	55	66.7	126.5	46,300	53,400		105	50.7	130.9	16,000	19,100		105	57.8	167.8	14,500	17,600
	60	64.3	124.3	41,000	47,200		110	48.3	126.7	14,700	17,600		110	56.0	164.6	13,200	16,100
	65	61.8	121.7	36,500	42,100		115	45.9	122.0	13,500	16,200		115	54.1	161.1	12,000	14,700
	70	59.3	118.9	32,800	37,900		120	43.4	117.0	12,400	15,000		120	52.2	157.3	10,900	13,500
	75	56.7	115.8	29,600	34,300		125	40.7	111.4	11,300	13,800		125	50.3	153.3	9,900	12,400
	80	54.0	112.3	26,900	31,200		130	37.9	105.3	10,400	12,800		130	48.3	149.0	8,900	11,300
	85	51.3	108.5	24,500	28,500		135	34.8	98.5	9,600	11,800		135	46.3	144.4	8,100	10,300
	90	48.4	104.3	22,400	26,100		140	31.6	90.8	8,800	10,900		140	44.1	139.4	7,300	9,500
	95	45.4	99.6	20,600	24,000		145	28.0	82.1	8,000	10,100		145	41.9	134.1	6,500	8,600
	100	42.2	94.4	18,900	22,100		150	23.9	71.8	7,300	9,400		150	39.6	128.3	5,800	7,900
	105	38.8	88.5	17,400	20,500		155	18.9	59.0	6,700	8,600		155	37.2	122.0	5,200	7,200
	110	35.1	81.9	16,100	19,000		30	81.1	175.1	107,500	126,200		160	34.6	115.1	4,600	6,500
	115	31.1	74.2	14,900	17,600		32	80.4	174.7	97,700	114,900		165	31.9	107.5	4,100	5,900
	120	26.5	65.1	13,800	16,400		34	79.7	174.4	89,400	104,800		170	28.9	98.9	3,500	4,700
	125	21.0	53.8														

LIFTCRANE CAPACITIES — 4000W  
BOOM NO. 22 WITH OPEN THROAT TOP, CONT'D.

**SEE CONDITIONS ON FRONT PAGE**

Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended	Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity: Crawlers Retracted	Capacity: Crawlers Extended
200	34	81.3	204.8	88,200	95,500	220	38	81.0	224.4	73,900	86,800
	36	80.7	204.5	81,000	93,000		40	80.5	224.1	68,500	80,300
	38	80.1	204.1	74,800	87,600		45	79.2	223.2	57,400	67,200
	40	79.5	203.8	69,400	81,100		50	77.8	222.2	48,900	57,300
	45	78.1	202.8	58,300	68,100		55	76.5	221.0	42,200	49,500
	50	76.6	201.7	49,900	58,200		60	75.2	219.8	36,800	43,200
	55	75.1	200.4	43,200	50,400		65	73.8	218.4	32,400	38,100
	60	73.6	199.0	37,800	44,200		70	72.5	216.9	28,600	33,800
	65	72.1	197.5	33,300	39,000		75	71.1	215.2	25,400	30,200
	70	70.6	195.8	29,600	34,800		80	69.7	213.4	22,700	27,000
	75	69.1	194.0	26,400	31,100		85	68.3	211.5	20,300	24,300
	80	67.6	192.0	23,600	28,000		90	66.9	209.5	18,200	21,900
	85	66.0	189.8	21,300	25,300		95	65.5	207.2	16,300	19,800
	90	64.4	187.5	19,200	22,900		100	64.0	204.9	14,600	17,900
	95	62.8	185.0	17,300	20,800		105	62.6	202.4	13,100	16,200
	100	61.2	182.4	15,600	18,900		110	61.1	199.7	11,800	14,700
	105	59.6	179.5	14,100	17,200		115	59.6	196.9	10,600	13,300
110	57.9	176.5	12,800	15,700	120	58.1	193.8	9,500	12,100		
115	56.2	173.3	11,600	14,300	125	56.5	190.6	8,400	11,000		
120	54.4	169.8	10,500	13,100	130	55.0	187.2	7,500	9,900		
125	52.7	166.1	9,400	12,000	135	53.3	183.6	6,600	8,900		
130	50.8	162.2	8,500	10,900	140	51.7	179.8	5,800	8,000		
135	49.0	157.9	7,700	9,900	145	50.0	175.7	5,100	7,200		
140	47.0	153.4	6,900	9,100	150	48.3	171.4	4,400	6,500		
145	45.0	148.6	6,100	8,200	155	46.5	166.8		5,700		
150	43.0	143.4	5,400	7,500	160	44.7	161.9		5,100		
155	40.8	137.9	4,800	6,700	165	42.8	156.7		4,400		
160	38.6	131.8	4,200	6,100							
165	36.2	125.3		5,500							
170	33.7	118.2		4,900							
175	31.1	110.3		4,300							
210	36	81.1	214.6	80,600	94,600						
	38	80.6	214.3	74,400	87,200						
	40	80.0	213.9	68,900	80,700						
	45	78.6	213.0	57,900	67,600						
	50	77.3	211.9	49,400	57,700						
	55	75.9	210.7	42,700	50,000						
	60	74.4	209.4	37,300	43,700						
	65	73.0	207.9	32,900	38,600						
	70	71.6	206.4	29,100	34,300						
	75	70.1	204.6	25,900	30,700						
	80	68.7	202.7	23,200	27,500						
	85	67.2	200.7	20,800	24,800						
	90	65.7	198.5	18,700	22,400						
	95	64.2	196.2	16,800	20,300						
	100	62.7	193.7	15,200	18,500						
	105	61.1	191.0	13,700	16,800						
	110	59.6	188.2	12,300	15,300						
115	58.0	185.2	11,100	13,900							
120	56.4	181.9	10,000	12,600							
125	54.7	178.5	9,000	11,500							
130	53.0	174.9	8,000	10,400							
135	51.3	171.0	7,200	9,500							
140	49.5	166.8	6,400	8,600							
145	47.7	162.4	5,700	7,800							
150	45.8	157.7	5,000	7,000							
155	43.9	152.7	4,300	6,300							
160	41.9	147.3		5,600							
165	39.8	141.5		5,000							
170	37.6	135.3		4,400							

Combined From Charts:  
No. 5359 10-11-71  
No. 6274-A 11-26-73  
No. 6274-B 11-26-73  
No. 5320 1-21-75