

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 cwt. = 32,000 lbs., 2nd cwt. = 26,500 lbs., 3rd cwt. = 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		
Boo. Lgth.	Jib No. 123	Jib No. 124	Boo. 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:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:
60	15	79.1	65.6	200,000	70	40	58.7	66.5	51,100	90	18	80.8	95.5	162,600	100	19	81.2	105.5	148,400
	16	78.1	65.4	200,000		45	53.8	63.1	43,800		19	80.2	95.3	148,500		20	80.6	105.3	136,500
	17	77.1	65.1	180,200		50	48.5	59.1	38,100		20	79.5	95.2	136,600		22	79.4	105.0	117,500
	18	76.1	64.9	163,400		55	42.8	54.2	33,700		22	78.2	94.8	117,600		24	78.2	104.6	103,000
	19	75.2	64.7	149,400		60	36.4	48.2	30,000		24	76.9	94.3	103,100		26	77.1	104.1	91,500
	20	74.2	64.4	137,500		65	28.7	40.3	27,100		26	75.6	93.8	91,700		28	75.9	103.6	82,300
	22	72.2	63.8	118,600		70	18.5	28.9	24,500		28	74.3	93.3	82,400		30	74.7	103.1	74,600
	24	70.1	63.1	104,100		16	81.1	85.7	200,000		30	73.0	92.7	74,700		32	73.5	102.5	68,200
	26	68.1	62.3	92,700		17	80.4	85.5	179,700		32	71.6	92.1	68,300		34	72.3	101.9	62,700
	28	66.0	61.5	83,400		18	79.6	85.4	162,900		34	70.3	91.4	62,800		36	71.1	101.3	58,000
70	30	63.9	60.5	75,800	80	18	79.6	85.4	162,900	100	36	68.9	90.6	58,100	110	38	69.9	100.6	53,900
	32	61.8	59.5	69,400		19	78.9	85.2	148,800		38	67.5	89.8	54,000		40	68.7	99.8	50,200
	34	59.6	58.4	63,900		20	78.2	85.0	137,000		40	66.2	89.0	50,400		45	65.6	97.7	42,900
	36	57.3	57.2	59,200		22	76.7	84.5	118,000		45	62.6	86.6	43,000		50	62.4	95.3	37,200
	38	55.0	55.8	55,100		24	75.2	84.0	103,500		50	59.0	83.8	37,400		55	59.1	92.5	32,800
	40	52.7	54.4	51,500		26	73.8	83.5	92,000		55	55.2	80.6	32,900		60	55.7	89.3	29,100
	45	46.4	50.1	44,200		28	72.3	82.9	82,800		60	51.2	76.8	29,300		65	52.1	85.6	26,100
	50	39.4	44.7	38,500		30	70.8	82.2	75,100		65	47.0	72.5	26,300		70	48.4	81.5	23,600
	55	31.1	37.6	34,100		32	69.2	81.5	68,700		70	42.5	67.4	23,800		75	44.5	76.7	21,500
	60	20.0	27.2	30,500		34	67.7	80.7	63,200		75	37.5	61.5	21,600		80	40.2	71.2	19,600
80	15	80.6	75.7	200,000	90	36	66.1	79.8	54,400	100	80	31.9	54.3	19,800	110	85	35.5	64.8	18,000
	16	79.8	75.6	200,000		38	64.6	78.9	50,800		85	25.3	45.1	18,200		90	30.3	57.0	16,600
	17	79.0	75.4	179,900		40	63.0	77.9	47,900		90	16.3	31.9	16,700		95	24.0	47.3	15,300
	18	78.1	75.2	163,100		45	58.9	75.1	43,500							100	15.5	33.3	14,200
	19	77.3	74.9	149,100		50	54.6	71.8	37,800										
	20	76.5	74.7	137,200		55	50.0	68.0	33,300										
	22	74.8	74.2	118,200		60	45.2	63.4	29,700										
	24	73.1	73.6	103,700		65	39.9	58.0	26,700										
	26	71.4	73.0	92,300		70	33.9	51.3	24,200										
	28	69.6	72.3	83,000		75	26.9	42.8	22,100										
90	30	67.9	71.5	75,400	100	80	17.3	30.5	20,200	110				120					
	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															

Capacities continued
on reverse side.

SEE CONDITIONS ON REVERSE SIDE

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Ang.: Deg.	Boom Point: Elev.	Capacity:
110	22	80.4	115.1	117,200	150	28	80.6	154.7	80,800	180	32	80.9	184.4	65,700	210	36	81.1	214.1	54,600
	24	79.3	114.8	102,700		30	79.9	154.3	73,100		34	80.3	184.1	60,200		38	80.6	213.8	50,400
	26	78.3	114.4	91,200		32	79.1	153.9	66,600		36	79.6	183.7	55,500		40	80.0	213.5	46,800
	28	77.2	113.9	82,000		34	78.3	153.5	61,100		38	79.0	183.3	51,300		45	78.6	212.5	39,400
	30	76.1	113.4	74,300		36	77.5	153.1	56,400		40	78.3	182.9	47,700		50	77.2	211.5	33,700
	32	75.1	112.9	67,900		38	76.8	152.7	52,300		45	76.7	181.8	40,300		55	75.8	210.3	29,200
	34	74.0	112.4	62,400		40	76.0	152.2	48,600		50	75.1	180.6	34,600		60	74.4	208.9	25,500
	36	72.9	111.8	57,700		45	74.0	150.8	41,300		55	73.4	179.2	30,100		65	73.0	207.5	22,500
	38	71.8	111.1	53,500		50	72.0	149.3	35,600		60	71.7	177.6	26,500		70	71.6	205.9	19,900
	40	70.7	110.5	49,900		55	70.0	147.6	31,100		65	70.1	175.9	23,500		75	70.1	204.2	17,800
120	45	67.9	108.6	42,600	160	60	67.9	145.7	27,500	190	70	68.4	174.0	20,900	220	80	68.7	202.3	15,900
	50	65.1	106.4	36,900		65	65.8	143.5	24,400		75	66.6	171.9	18,800		85	67.2	200.2	14,300
	55	62.2	103.9	32,400		70	63.7	141.2	21,900		80	64.9	169.6	16,900		90	65.7	198.1	12,800
	60	59.2	101.1	28,800		75	61.6	138.6	19,800		85	63.1	167.2	15,300		95	64.2	195.7	11,600
	65	56.1	97.9	25,800		80	59.4	135.8	17,900		90	61.3	164.6	13,800		100	62.7	193.2	10,400
	70	52.9	94.4	23,300		85	57.1	132.7	16,300		95	59.5	161.7	12,600		105	61.1	190.6	9,400
	75	49.5	90.4	21,100		90	54.8	129.3	14,800		100	57.6	158.7	11,400		110	59.6	187.7	8,500
	80	46.0	85.8	19,300		95	52.5	125.6	13,600		105	55.7	155.4	10,400		115	58.0	184.7	7,700
	85	42.3	80.7	17,600		100	50.0	121.6	12,400		110	53.8	151.9	9,500		120	56.3	181.5	6,900
	90	38.3	74.8	16,200		105	47.5	117.2	11,400		115	51.8	148.1	8,700		125	54.7	178.0	6,200
130	95	33.8	67.9	15,000	170	110	44.8	112.4	10,500	200	120	49.7	144.0	7,900	230	130	53.0	174.4	5,600
	100	28.8	59.7	13,800		115	42.1	107.1	9,700		125	47.6	139.6	7,200		135	51.3	170.5	5,000
	105	22.8	49.4	12,800		120	39.1	101.3	8,900		130	45.4	134.8	6,600		140	49.5	166.3	4,400
	22	81.2	125.2	112,500		125	36.0	94.8	8,200		135	43.1	129.7	5,400		145	47.7	161.9	3,900
	24	80.2	124.9	102,400		130	32.6	87.5	7,600		140	40.7	124.1	5,000		150	45.8	157.2	3,500
	26	79.3	124.6	90,900		135	28.9	79.0	7,000		145	38.2	118.1	4,900		155	43.9	152.2	3,000
	28	78.3	124.2	81,600		140	24.6	69.1	6,500		150	35.6	111.4	4,500					
	30	77.3	123.7	73,900		145	19.5	56.8	6,000		155	32.8	104.1	4,000					
	32	76.3	123.3	67,500		30	80.5	164.5	72,800		160	29.7	95.8	3,600					
	34	75.3	122.7	62,000		32	79.8	164.1	66,400		165	26.3	86.4	3,200					
140	36	74.3	122.2	57,300	180	34	79.1	163.7	60,900	210	34	80.8	194.2	60,000	240	36	80.2	193.9	55,200
	38	73.4	121.6	53,200		36	78.3	163.3	56,200		36	80.2	193.9	55,200		38	79.6	193.5	51,100
	40	72.4	121.0	49,500		38	77.6	162.9	52,000		40	79.0	193.1	47,500		40	79.0	193.1	47,500
	45	69.8	119.3	42,200		40	76.9	162.5	48,400		45	77.4	192.1	40,100		45	77.4	192.1	40,100
	50	67.3	117.3	36,500		45	75.0	161.2	41,000		50	75.9	190.9	34,400		50	75.9	190.9	34,400
	55	64.7	115.1	32,000		50	73.2	159.8	35,300		55	74.3	189.6	29,900		55	74.3	189.6	29,900
	60	62.0	112.6	28,400		55	71.3	158.2	30,900		60	72.7	188.1	26,200		60	72.7	188.1	26,200
	65	59.2	109.8	25,400		60	69.4	156.4	27,200		65	71.2	186.5	23,200		65	71.2	186.5	23,200
	70	56.4	106.6	22,900		65	67.4	154.4	24,200		70	69.6	184.7	20,700		70	69.6	184.7	20,700
	75	53.5	103.1	20,700		70	65.5	152.2	21,700		75	67.9	182.7	18,500		75	67.9	182.7	18,500
150	80	50.5	99.2	18,900	190	75	63.5	149.9	19,500	220	80	66.3	180.6	16,600	250	80	66.3	180.6	16,600
	85	47.3	94.8	17,200		80	61.5	147.3	17,600		85	64.6	178.3	15,000		85	64.6	178.3	15,000
	90	44.0	90.0	15,800		85	59.4	144.4	16,000		90	63.0	175.9	13,600		90	63.0	175.9	13,600
	95	40.4	84.4	14,500		90	57.3	141.3	14,600		95	61.3	173.2	12,300		95	61.3	173.2	12,300
	100	36.6	78.2	13,400		95	55.2	138.0	13,300		100	59.5	170.4	11,200		100	59.5	170.4	11,200
	105	32.4	70.9	12,400		100	53.0	134.4	12,200		105	57.8	167.4	10,200		105	57.8	167.4	10,200
	110	27.6	62.2	11,500		105	50.7	130.4	11,200		110	56.0	164.1	9,200		110	56.0	164.1	9,200
	115	21.9	51.3	10,700		110	48.3	126.2	10,300		115	54.1	160.6	8,400		115	54.1	160.6	8,400
	24	81.0	135.0	102,200		115	45.9	121.5	9,400		120	52.2	156.8	7,600		120	52.2	156.8	7,600
	26	80.1	134.7	90,700		120	43.3	116.5	8,700		125	50.3	152.8	6,900		125	50.3	152.8	6,900
160	28	79.2	134.4	81,400	200	125	40.7	110.9	8,000	230	130	48.3	148.5	6,300	260	130	48.3	148.5	6,300
	30	78.3	134.0	73,700		130	37.8	104.8	7,300		135	46.3	143.9	5,700		140	47.7	161.9	5,000
	32	77.4	133.5	67,300		135	34.8	98.0	6,700		140	44.1	139.0	5,200		145	45.0	148.1	4,300
	34	76.5	133.1	61,800		140	31.5	90.3	6,200		145	41.9	133.6	4,700		150	43.0	142.9	3,800
	36	75.6	132.6	57,100		145	27.9	81.6	5,700		150	39.6	127.8	4,200		155	37.2	121.5	3,800
	38	74.7	132.0	53,000		150	23.8	71.3	5,200		155	34.6	114.6	3,400		160	34.6	114.6	3,400
	40	73.8	131.5	49,300		155	18.9	58.5	4,800		165	31.9	106.9	3,000		165	31.9	106.9	3,000
	45	71.4	129.9	42,000		30	81.1	174.6	67,500		36	80.7	204.0	54,900		36	80.7	204.0	54,900
	50	69.1	128.1	36,300		32	80.4	174.3	66,100		38	80.1	203.7	50,800		38	80.1	203.7	50,800
	55	66.7	126.1	31,800		34	79.7	173.9	60,600		40	79.5	203.3	47,100		40	79.5	203.3	47,100
170	60	64.3	123.8	28,200	210	36	79.0	173.5	55,800	240	45	78.1	202.3	39,700	270	45	78.1	202.3	39,700
	65	61.8	121.3	25,200		38	78.3	173.1	51,700		50	76.6	201.2	34,000		50	76.6	201.2	34,000
	70	59.3	118.4	22,700		40	77.6	172.7	48,100		55	75.1	199.9	29,500		55	75.1	199.9	29,500
	75	56.7	115.3	20,500		45	75.9	171.5	40,700		60	73.6	198.5	25,900		60	73.6	1	