



LIFTCRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

4600
SERIES-3

BOOM NO. 27 WITH OPEN THROAT TOP
113,500 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 for liftcrane service with single part whip line or combination of two single part lines is 40,000 lbs. In all cases, upper boom point capacities cannot exceed those listed for the main boom capacity.

Capacities are shown in pounds. Weight of upper boom point, 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.

OPERATING CONDITIONS: Machine to operate in a level position on a firm surface. Refer to rigging No. 50973, load line specification chart No. 6444-A, and power plant and counterweight arrangement chart No. 6655-A.

Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, 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 15" 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 26'-1" crawlers, 60" treads, 30' heavy duty mast, Vicon independent boom hoist with 16 part reeving, 12 part mast hoist reeving, four 1-3/8" boom pendants and 113,500 lb. counterweight.

HOIST REEVING FOR MAIN LOAD BLOCK						
No. Parts of Line	1	2	3	4	5	6
Max. Load — Lbs.	40,000	80,000	120,000	160,000	200,000	240,000
No. Parts of Line	7	8	9	10	11	12
Max. Load — Lbs.	280,000	320,000	360,000	400,000	440,000	480,000

LOAD AND WHIP LINE SPECIFICATIONS	
LOAD LINE: 1-1/4" — 6x31 Warrington-Seale, Extra Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 79.9 Ton. (Approx. Weight Per Ft. in Lbs. 2.89)	
WHIP LINE: 1-1/4" — 6x31 Warrington-Seale, Extra Improved Plow Steel, Regular Lay, IWRC. Minimum Breaking Strength 79.9 Ton. Maximum Load — 40,000 lbs. Per Line (Approx. Weight Per Ft. in Lbs. 2.89)	

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED				(A) DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED	
OVER FRONT OF BLOCKED CRAWLERS		OVER SIDE OF CRAWLERS			
Boom Lgth.	Jib No. 122A	Boom Lgth.	Jib No. 122A	Jib Length	Jib No. 122A
260'	---	230'	---		
250'	---	220'	---	40'	6,300 Lb
240'	---	210'	40'	50'	7,200 Lb
230'	50'	200'	50'		

Load block, hook and weight ball on ground at start

DEDUCT FROM CAPACITIES WHEN UPPER BOOM POINT IS ATTACHED	
One Sheave Point	1,200 Lb.
Two Sheave Point	1,500 Lb.
Integral Point	1,600 Lb.

For jib capacities, consult jib chart.

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:	
18	81.5	86.9	480,000	20	81.2	96.7	420,700	21	80.5	96.6	386,100	23	81.2	116.5	330,000
19	80.8	86.8	462,500	21	80.5	96.6	386,100	22	79.9	96.4	356,600	24	80.7	116.3	307,900
20	80.0	86.6	421,400	22	79.9	96.4	356,600	23	79.2	96.2	331,200	25	80.1	116.2	288,500
21	79.3	86.4	386,900	23	79.2	96.2	331,200	24	79.7	106.2	308,700	26	79.6	116.0	271,200
22	78.6	86.2	357,400	24	78.6	96.0	309,100	25	79.1	106.0	289,200	27	79.1	115.8	255,900
23	77.9	86.0	332,000	25	77.9	95.8	289,700	26	78.6	105.8	272,000	28	78.6	115.6	242,100
24	77.1	85.8	309,900	26	77.3	95.6	272,500	27	78.0	105.6	256,700	29	78.0	115.4	229,600
25	76.4	85.6	290,500	27	76.6	95.4	257,100	28	77.4	105.4	242,900	30	77.5	115.2	218,400
26	75.6	85.3	273,300	28	76.0	95.1	243,400	29	76.8	105.2	230,500	32	76.4	114.7	198,700
27	74.9	85.0	258,000	29	75.3	94.9	230,900	30	76.2	104.9	219,200	34	75.3	114.2	182,100
28	74.2	84.8	244,200	30	74.6	94.6	219,700	32	75.0	104.4	199,500	36	74.3	113.7	167,900
29	73.4	84.5	231,800	32	73.3	94.0	200,000	34	73.8	103.9	182,900	38	73.2	113.1	155,600
30	72.7	84.2	220,500	34	72.0	93.4	183,400	36	72.6	103.2	168,700	40	72.1	112.5	144,900
32	71.2	83.5	200,800	36	70.6	92.7	169,200	38	71.4	102.6	156,500	45	69.3	110.7	123,300
34	69.6	82.8	184,300	38	69.3	92.0	157,000	40	70.2	101.9	145,800	50	66.5	108.7	106,900
36	68.1	82.0	170,100	40	67.9	91.2	146,300	45	67.1	100.0	124,200	55	63.6	106.4	94,000
38	66.6	81.2	157,900	45	64.4	89.0	124,700	50	64.0	97.7	107,800	60	60.7	103.7	83,600
40	65.0	80.3	147,200	50	60.9	86.4	108,300	55	60.8	95.1	94,900	65	57.7	100.7	75,100
45	61.0	77.7	125,600	55	57.1	83.4	95,400	60	57.4	92.1	84,500	70	54.5	97.4	67,900
50	56.8	74.7	109,200	55	53.3	79.9	85,000	65	54.0	88.7	76,000	75	51.3	93.6	61,800
55	52.4	71.2	96,300	65	49.2	75.9	76,500	70	50.3	84.8	68,800	80	47.8	89.3	56,600
60	47.7	67.0	85,900	70	44.8	71.2	69,300	75	46.5	80.3	62,700	85	44.2	84.5	52,100
65	42.7	62.0	77,400	75	40.1	65.8	63,300	80	42.4	75.2	57,500	90	40.3	79.0	48,100
70	37.1	56.0	70,200	80	34.9	59.3	58,000	85	38.0	69.3	53,000	95	36.1	72.7	44,500
75	30.6	48.6	64,200	85	28.8	51.2	53,500	90	33.0	62.3	49,000	100	31.5	65.2	41,400
80	22.6	38.6	58,900	90	21.3	40.5	49,500	95	27.3	53.7	45,400	105	26.0	56.1	38,600
								100	20.2	42.4	42,300	110	19.3	44.1	36,000

Capacities continued on reverse side.

SEE CONDITIONS ON REVERSE SIDE

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:
24	81.5	126.5	307.800		29	81.2	156.1	227.500		34	81.1	185.6	178.300		36	81.4	205.6	163.000	
25	81.0	126.3	288.400		30	80.9	155.9	216.200		36	80.5	185.3	164.100		38	80.8	205.3	150.700	
26	80.5	126.2	271.200		32	80.1	155.6	196.500		40	79.8	185.0	151.800		40	80.3	204.9	140.000	
27	80.0	126.0	255.800		34	79.3	155.2	179.900		40	79.2	184.6	141.100		45	78.8	204.0	118.300	
28	79.5	125.8	242.000		36	78.5	154.8	165.700		45	77.5	183.6	119.400		50	77.3	202.9	101.900	
29	79.0	125.6	229.600		38	77.7	154.4	153.400		50	75.9	182.4	103.000		55	75.9	201.7	88.900	
30	78.5	125.4	218.300		40	77.0	153.9	142.700		55	74.3	181.1	90.100		60	74.4	200.4	78.500	
32	77.6	125.0	198.600		45	75.0	152.7	121.000		60	72.6	179.6	79.700		65	72.9	199.0	70.000	
34	76.6	124.5	182.000		50	73.0	151.3	104.600		65	70.9	177.9	71.100		70	71.4	197.3	62.800	
36	75.6	124.0	167.800		55	71.0	149.6	91.700		70	69.2	176.1	63.900		75	69.9	195.6	56.700	
38	74.6	123.5	155.600		60	69.0	147.8	81.300		75	67.5	174.1	57.800		80	68.3	193.7	51.500	
40	73.6	122.9	144.800		65	66.9	145.8	72.700		80	65.8	172.0	52.600		85	66.8	191.6	46.900	
45	71.1	121.3	123.200		70	64.8	143.5	65.600		85	64.0	169.6	48.000		90	65.2	189.4	42.900	
50	68.6	119.5	106.800		75	62.7	141.1	59.500		90	62.2	167.1	44.000		95	63.6	187.0	39.400	
55	66.0	117.4	93.900		80	60.5	138.4	54.200		95	60.4	164.4	40.500		100	62.0	184.4	36.200	
60	63.6	115.0	83.500		85	58.3	135.4	49.700		100	58.6	161.4	37.400		105	60.4	181.7	33.400	
65	60.3	112.4	75.000		90	56.0	132.2	45.700		105	56.7	158.2	34.500		110	58.7	178.7	30.800	
70	57.9	109.4	67.800		95	53.7	128.7	42.200		110	54.8	154.8	32.000		115	57.0	175.6	28.500	
75	55.0	106.1	61.700		100	51.3	124.8	39.000		115	52.8	151.2	29.700		120	55.3	172.2	26.400	
80	52.0	102.4	56.500		105	48.8	120.6	36.200		120	50.8	147.2	27.600		125	53.5	168.7	24.500	
85	48.9	98.3	52.000		110	46.2	116.1	33.700		125	48.7	143.0	25.700		130	51.7	164.9	22.800	
90	45.7	93.7	48.000		115	43.5	111.0	31.400		130	46.5	138.4	23.900		135	49.9	160.8	21.100	
95	42.2	88.5	44.500		120	40.6	105.5	29.300		135	44.3	133.5	22.300		140	48.0	156.4	19.600	
100	38.6	82.6	41.300		125	37.6	99.3	27.300		140	42.0	128.2	20.800		145	46.0	151.8	18.200	
105	34.6	75.9	38.500		130	34.4	92.5	25.600		145	39.5	122.4	19.400		150	44.0	146.8	17.000	
110	30.1	68.0	36.000		135	30.8	84.6	24.000		150	37.0	116.0	18.100		155	41.9	141.4	15.800	
115	24.9	58.4	33.700		140	26.8	75.5	22.500		155	34.2	109.0	16.900		160	39.7	135.6	14.600	
120	18.4	45.8	31.600		145	22.2	64.6	21.100		160	31.3	101.3	15.800		165	37.4	129.3	13.600	
					150	16.5	50.4	19.800		165	28.1	92.5	14.700		170	35.0	122.5	12.700	
										170	24.5	82.4	13.800		175	32.4	115.0	11.700	
26	81.2	136.3	270.400		30	81.4	166.0	216.000		175	20.3	70.2	12.800		180	29.6	106.7	10.800	
27	80.8	136.1	255.100		32	80.7	165.7	196.300		180	15.0	54.5	12.000		185	26.6	97.3	10.000	
28	80.3	136.0	241.300		34	80.0	165.4	179.600						190	23.2	86.6	9.200		
29	79.9	135.8	228.800		36	79.3	165.0	165.400						195	19.2	73.7	8.500		
30	79.4	135.6	217.500		38	78.5	164.6	153.200											
32	78.5	135.2	197.800		40	77.8	164.2	142.400		36	81.0	195.4	163.400		38	80.4	195.1	151.100	
34	77.6	134.8	181.200		45	76.0	163.0	120.800		40	79.7	194.8	140.300		45	78.2	193.8	118.700	
36	76.7	134.3	167.000		50	74.1	161.7	104.300		45	78.2	193.8	118.700		50	76.7	192.7	102.200	
38	75.8	133.8	154.800		55	72.2	160.2	91.400		55	75.1	191.4	89.300		60	73.5	190.0	78.900	
40	74.9	133.3	144.000		60	70.3	158.5	81.000		65	72.0	188.5	70.300		70	70.4	186.8	63.100	
										75	68.8	184.9	57.000						
45	72.6	131.9	122.400		65	68.4	156.6	72.500		80	67.1	182.9	51.800		60	75.1	210.8	77.800	
50	70.3	130.2	106.000		70	66.5	154.5	65.300		85	65.5	180.7	47.200		65	73.7	209.4	69.200	
55	67.9	128.3	93.100		75	64.5	152.2	59.200		90	63.8	178.3	43.200		70	72.3	207.9	62.000	
60	65.5	126.1	82.700		80	62.5	149.7	54.000		95	62.1	175.8	39.700		75	70.9	206.2	55.900	
65	63.1	123.7	74.100		85	60.5	147.0	49.500		100	60.4	173.0	36.600		80	69.4	204.4	50.700	
70	60.6	121.1	67.000		90	58.4	144.1	45.500		105	58.7	170.1	33.700		85	68.0	202.4	46.100	
75	58.0	118.1	60.900		95	56.3	140.9	41.900		110	56.9	166.9	31.200		90	66.5	200.3	42.100	
80	55.4	114.8	55.700		100	54.1	137.4	38.800		115	55.1	163.5	28.900		95	65.0	198.1	38.600	
85	52.7	111.2	51.100		105	51.9	133.6	36.000		120	53.2	159.9	26.800		100	63.5	195.7	35.400	
90	49.8	107.2	47.100		110	49.5	129.5	33.400		125	51.3	156.1	24.900		105	61.9	193.1	32.600	
95	46.9	102.7	43.600		115	47.1	125.1	31.100		130	49.3	151.9	23.100		110	60.4	190.3	30.100	
100	43.8	97.8	40.500		120	44.6	120.2	29.000		135	47.3	147.5	21.500		115	58.8	187.4	27.800	
105	40.5	92.3	37.600		125	42.0	114.9	27.100		140	45.2	142.7	20.000		120	57.2	184.3	25.700	
110	37.0	86.0	35.100		130	39.3	109.1	25.300		145	43.1	137.5	18.600		125	55.5	180.9	23.700	
115	33.2	78.9	32.800		135	36.4	102.7	23.700		150	40.8	131.9	17.300		130	53.9	177.4	22.000	
120	28.9	70.6	30.700		140	33.2	95.5	22.200		155	38.4	125.9	16.100		135	52.2	173.6	20.400	
125	23.9	60.5	28.800		145	29.8	87.3	20.800		160	35.9	119.3	15.000		140	50.4	169.6	18.900	
130	17.7	47.4	27.000		150	26.0	77.9	19.500		165	33.3	112.1	13.900		145	48.6	165.4	17.500	
					155	21.5	66.5	18.300		170	30.4	104.0	12.900		150	46.8	160.8	16.200	
					160	16.0	51.8	17.200		175	27.3	95.0	12.000		155	44.9	156.0	15.000	
27	81.4	146.2	254.500		32	81.3	175.8	195.500		180	23.8	84.5	11.100		160	42.9	150.8	13.800	
28	81.0	146.1	240.700		34	80.6	175.5	178.900		185	19.7	72.0	10.300		165	40.9	145.2	12.800	
29	80.6	145.9	228.300		36	79.9	175.2	164.700						170	38.7	139.2	11.800		
30	80.2	145.8	217.000		38	79.2	174.8	152.400						175	36.5	132.7	10.900		
32	79.4	145.4	197.300		40	78.5	174.4	141.700						180	34.1	125.6	10.000		
34	78.5	145.0	1																



**LIFT CRANE CAPACITIES – 4600 SERIES-3
 BOOM NO. 27 WITH OPEN THROAT TOP, CONT'D.**

SEE CONDITIONS ON FRONT PAGE

Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Boom Angle: Deg.	Boom Point: Elev.	Capacity:
40	81.2		225.2	138,700	45	80.7		244.6	115,800	45	81.4		264.9	114,500
45	79.8		224.3	117,000	50	79.5		243.8	99,400	50	80.3		264.1	98,000
50	78.5		223.4	100,500	55	78.3		242.8	86,400	55	79.2		263.2	85,100
55	77.2		222.3	87,600	60	77.0		241.7	76,000	60	78.1		262.2	74,600
60	75.8		221.1	77,200	65	75.8		240.5	67,400	65	76.9		261.1	66,100
65	74.5		219.8	68,600	70	74.6		239.2	60,200	70	75.8		259.8	58,900
70	73.1		218.3	61,400	75	73.3		237.7	54,100	75	74.6		258.5	52,800
75	71.8		216.8	55,300	80	72.1		236.2	48,900	80	73.5		257.1	47,500
80	70.4		215.0	50,100	85	70.8		234.5	44,300	85	72.3		255.6	42,900
85	69.0		213.2	45,500	90	69.6		232.7	40,300	90	71.2		253.9	38,900
90	67.6		211.2	41,500	95	68.3		230.8	36,800	95	70.0		252.2	35,400
95	66.2		209.1	38,000	100	67.0		228.7	33,600	100	68.8		250.3	32,200
100	64.8		206.8	34,800	105	65.7		226.5	30,800	105	67.7		248.3	29,400
105	63.3		204.4	32,000	110	64.4		224.2	28,300	110	66.5		246.2	26,900
110	61.8		201.8	29,400	115	63.0		221.7	25,900	115	65.3		243.9	24,600
115	60.4		199.0	27,100	120	61.7		219.1	23,800	120	64.0		241.6	22,400
120	58.8		196.1	25,000	125	60.3		216.3	21,900	125	62.8		239.1	20,500
125	57.3		192.9	23,100	130	58.9		213.4	20,200	130	61.6		236.4	18,800
130	55.7		189.6	21,300	135	57.5		210.3	18,500	135	60.3		233.6	17,100
135	54.2		186.1	19,700	140	56.1		207.0	17,000	140	59.0		230.7	15,600
140	52.5		182.4	18,200	145	54.7		203.6	15,600	145	57.7		227.6	14,200
145	50.9		178.5	16,800	150	53.2		199.9	14,400	150	56.4		224.4	12,900
150	49.2		174.3	15,500	155	51.7		196.1	13,100	155	55.1		221.0	11,700
155	47.4		169.8	14,300	160	50.1		192.0	12,000	160	53.7		217.4	10,600
160	45.6		165.1	13,200	165	48.6		187.7	11,000	165	52.3		213.6	9,600
165	43.8		160.0	12,200	170	46.9		183.2	10,000	170	50.9		209.7	8,600
170	41.9		154.6	11,200	175	45.3		178.4	9,100	175	49.5		205.5	7,600
175	39.9		148.9	10,200	180	43.6		173.3	8,200	180	48.0		201.1	6,800
180	37.8		142.6	9,400	185	41.8		167.9	7,400	185	46.5		196.5	5,900
185	35.6		135.9	8,500	190	40.0		162.1	6,600	190	45.0		191.7	5,200
190	33.3		128.7	7,800	195	38.1		155.9	5,800	195	43.4		186.5	4,400
195	30.9		120.7	7,000	200	36.1		149.3	5,100					
200	28.2		111.9	6,300	205	34.1		142.2	4,500					
205	25.3		102.0	5,700										
210	22.1		90.6	5,000										
215	18.3		77.0	4,400										
40	81.5		235.3	138,000	45	80.3		234.5	116,200	45	81.1		254.8	115,100
45	80.3		234.5	116,200	50	79.0		233.6	99,800	50	79.9		253.9	98,600
50	79.0		233.6	99,800	55	77.7		232.6	86,800	55	78.7		253.0	85,700
55	77.7		232.6	86,800	60	76.5		231.4	76,400	60	77.6		251.9	75,300
60	76.5		231.4	76,400	65	76.4		250.8	66,700	65	76.4		250.8	66,700
65	75.2		230.2	67,800	70	75.2		249.5	59,500	70	75.2		249.5	59,500
70	73.9		228.8	60,600	75	74.0		248.1	53,400	75	74.0		248.1	53,400
75	72.6		227.3	54,500	80	72.8		246.7	48,100	80	72.8		246.7	48,100
80	71.3		225.6	49,300	85	71.6		245.0	43,600	85	71.6		245.0	43,600
85	70.0		223.9	44,700	90	70.4		243.3	39,600	90	70.4		243.3	39,600
90	68.6		222.0	40,700	95	69.2		241.5	36,000	95	69.2		241.5	36,000
95	67.3		220.0	37,200	100	68.0		239.5	32,900	100	68.0		239.5	32,900
100	65.9		217.8	34,000	105	66.7		237.4	30,000	105	66.7		237.4	30,000
105	64.6		215.5	31,200	110	65.5		235.2	27,500	110	65.5		235.2	27,500
110	63.2		213.0	28,700	115	64.2		232.9	25,200	115	64.2		232.9	25,200
115	61.8		210.4	26,300	120	62.9		230.4	23,100	120	62.9		230.4	23,100
120	60.3		207.7	24,200	125	61.6		227.8	21,200	125	61.6		227.8	21,200
125	58.9		204.7	22,300	130	60.3		225.0	19,400	130	60.3		225.0	19,400
130	57.4		201.6	20,600	135	59.0		222.0	17,800	135	59.0		222.0	17,800
135	55.9		198.3	18,900	140	57.6		219.0	16,300	140	57.6		219.0	16,300
140	54.4		194.9	17,400	145	56.3		215.7	14,900	145	56.3		215.7	14,900
145	52.9		191.2	16,000	150	54.9		212.3	13,600	150	54.9		212.3	13,600
150	51.3		187.3	14,700	155	53.5		208.7	12,400	155	53.5		208.7	12,400
155	49.7		183.2	13,500	160	52.0		204.9	11,300	160	52.0		204.9	11,300
160	48.0		178.8	12,400	165	50.6		200.9	10,200	165	50.6		200.9	10,200
165	46.3		174.2	11,400	170	49.1		196.6	9,200	170	49.1		196.6	9,200
170	44.6		169.2	10,400	175	47.5		192.2	8,300	175	47.5		192.2	8,300
175	42.8		164.0	9,500	180	45.9		187.5	7,400	180	45.9		187.5	7,400
180	40.9		158.4	8,600	185	44.3		182.5	6,600	185	44.3		182.5	6,600
185	39.0		152.4	7,800	190	42.7		177.2	5,800	190	42.7		177.2	5,800
190	36.9		146.0	7,000	195	40.9		171.6	5,100	195	40.9		171.6	5,100
195	34.8		139.1	6,200	200	39.2		165.7	4,400	200	39.2		165.7	4,400
200	32.6		131.6	5,500										
205	30.2		123.4	4,900										
210	27.6		114.3	4,200										

Combined From Charts:
 No. 6722-A 2-20-84
 No. 6721-A 2-20-84
 No. 6444-A 2-20-84