

LIFTCRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

4100W, 4100W SERIES-1 RINGER® SERIES-3

BOOM NO. 27 WITH OPEN THROAT TOP OFFSET 4½ DEGREES
36 FT. RINGER ATTACHMENT — ON BLOCKING
122,400 LB. CRANE AND 275,000 LB. AUXILIARY COUNTERWEIGHT

NOTE:

This capacity chart applies when Ringer attachment is supported on blocking, or other approved support. When screw jacks are used capacities differ and the appropriate chart must be used.

LIFTING CAPACITIES: 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 shown by shaded areas.

Upper boom point capacity for single part whip line or combination of two single part lines is 28,300 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 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 on a firm surface with roller path level within a tolerance of 3/4" in 36 ft. on boom lengths thru 300 ft.; 3/8" in 36 ft. on booms over 300 ft. and properly supported. Refer to rigging No. 50999, and load line specification chart.

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: Operating radius is the horizontal distance from the axis of rotation to the center of vertical hoist line or load block with 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 36' ringer attachment on blocking, 26'6" extendible crawlers, 48" treads, 17' retractable gantry, 130' mast, 8 part boom hoist reeving, four 1-3/8" boom pendants, 14" dia x 16" width boom hoist drums, 122,400 lbs. of crane and 275,000 lb. auxiliary counterweight.

LOAD LINE SPECIFICATIONS: For machine with full width tandem drums or full width front drum and split rear drum, refer to Load Line Specification Chart No. 6144 or 6144-B.

MAXIMUM BOOM AND JIB LENGTHS LIFTED UNASSISTED			(A) DEDUCT FROM CAPACITIES WHEN JIB IS ATTACHED		
Bo. Lgth.	Jib No. 122A	Jib No. 123	Jib Lgth.	Jib No. 122A	Jib No. 123
340'	—	—	30'	—	3,000 Lb.
340'	50'	60'	40'	6,300 Lb.	3,600 Lb.
			50'	7,200 Lb.	4,200 Lb.
			60'	—	4,900 Lb.
Load block, hook and weight ball on ground at start.			Jib No. 123 deducts include jib adaptor.		

Capacities continued
on reverse side.

DEDUCT FROM CAPACITIES WHEN UPPER BOOM POINT AND/OR HANGER BLOCK ARE ATTACHED	
One Sheave Point	1,200 lbs.
Two Sheave Point	1,500 lbs.
Boom Point Block	1,200 lbs.

For jib capacities, consult jib chart.

Boom Lgth. Feet	Oper. Rad. Feet	Bo. Ang. Deg.	Boom Point Elev.	Capacity	Boom Lgth. Feet	Oper. Rad. Feet	Bo. Ang. Deg.	Boom Point Elev.	Capacity	Boom Lgth. Feet	Oper. Rad. Feet	Bo. Ang. Deg.	Boom Point Elev.	Capacity	Boom Lgth. Feet	Oper. Rad. Feet	Bo. Ang. Deg.	Boom Point Elev.	Capacity
36	83.5	146.7	485,300	115	53.4	134.6	172,800	45	82.9	206.0	382,100	50	82.2	225.5	352,600	50	82.2	225.5	352,600
38	82.7	146.4	484,900	120	51.1	130.6	163,600	50	81.4	205.2	381,400	55	80.9	224.7	352,400	55	80.9	224.7	352,400
40	81.9	146.1	484,500	125	48.8	126.2	155,200	55	80.0	204.3	380,600	60	79.6	223.7	351,100	60	79.6	223.7	351,100
45	79.8	145.2	483,300	130	46.3	121.5	147,600	60	78.5	203.3	379,800	65	78.2	222.7	351,700	65	78.2	222.7	351,700
50	77.7	144.0	466,600	135	43.7	116.3	140,600	65	77.0	202.1	367,400	70	76.9	221.5	329,500	70	76.9	221.5	329,500
55	75.6	142.7	447,800	140	41.0	110.6	134,200	70	75.6	200.8	331,000	75	75.6	220.2	299,300	75	75.6	220.2	299,300
60	73.4	141.2	416,400	145	38.1	104.3	127,800	75	74.1	199.4	300,800	80	74.2	218.8	273,900	80	74.2	218.8	273,900
65	71.3	139.5	371,400	150	35.1	97.3	119,700	80	72.6	197.8	275,300	85	72.8	217.2	252,200	85	72.8	217.2	252,200
70	69.1	137.6	335,000	155	31.7	89.4	111,800	85	71.1	196.1	253,700	90	71.5	215.5	233,500	90	71.5	215.5	233,500
75	66.9	135.5	304,800	160	28.0	80.3	104,100	90	69.5	194.2	235,000	95	70.1	213.7	217,200	95	70.1	213.7	217,200
80	64.6	133.1	279,300	45	82.1	185.8	414,800	95	68.0	192.2	218,600	100	68.7	211.8	202,800	100	68.7	211.8	202,800
85	62.3	130.4	257,700	50	80.5	184.9	413,600	100	66.4	190.0	204,300	105	67.3	209.7	190,100	105	67.3	209.7	190,100
90	59.9	127.5	238,900	55	78.8	183.9	412,400	105	64.8	187.6	191,600	110	65.9	207.4	178,700	110	65.9	207.4	178,700
95	57.5	124.4	222,600	60	77.2	182.8	408,600	110	63.2	185.1	180,200	115	64.4	205.0	168,500	115	64.4	205.0	168,500
100	55.0	120.9	208,300	65	75.6	181.5	368,600	115	61.6	182.4	170,000	120	62.9	202.4	159,300	120	62.9	202.4	159,300
105	52.4	117.0	195,600	70	73.9	180.0	332,200	120	60.0	179.5	160,800	125	61.5	199.7	151,000	125	61.5	199.7	151,000
110	49.8	112.8	184,200	75	72.2	178.4	302,000	125	58.3	176.4	152,400	130	60.0	196.8	143,400	130	60.0	196.8	143,400
115	47.0	108.2	172,800	80	70.6	176.6	276,500	130	56.6	173.1	144,800	135	58.4	193.7	136,400	135	58.4	193.7	136,400
120	44.1	103.0	160,700	85	68.8	174.7	254,900	135	54.8	169.6	137,800	140	56.9	190.5	130,000	140	56.9	190.5	130,000
125	41.0	97.3	149,500	90	67.1	172.6	236,100	140	53.0	165.8	131,400	145	55.3	187.0	124,100	145	55.3	187.0	124,100
130	37.6	90.9	138,900	95	65.4	170.3	219,800	145	51.2	161.8	125,500	150	53.7	183.3	118,600	150	53.7	183.3	118,600
135	34.0	83.7	128,900	100	63.6	167.8	205,500	150	49.3	157.5	120,100	155	52.0	179.5	113,500	155	52.0	179.5	113,500
140	30.0	75.3	119,200	105	61.8	165.1	192,800	155	47.3	152.9	115,000	160	50.3	175.3	108,800	160	50.3	175.3	108,800
40	82.9	166.3	450,100	110	60.0	162.2	181,400	160	45.3	148.0	110,300	165	48.6	170.9	104,400	165	48.6	170.9	104,400
45	81.1	165.5	449,100	115	58.1	159.1	171,200	165	43.3	142.7	105,900	170	46.8	166.2	100,300	170	46.8	166.2	100,300
50	79.3	164.5	444,200	120	56.2	155.7	162,000	170	41.1	137.0	101,800	175	45.0	161.3	96,500	175	45.0	161.3	96,500
55	77.4	163.4	438,900	125	54.2	152.1	153,600	175	38.8	130.9	97,900	180	43.1	156.0	92,900	180	43.1	156.0	92,900
60	75.6	162.1	415,200	130	52.2	148.2	146,000	180	36.4	124.2	94,300	185	41.1	150.3	89,500	185	41.1	150.3	89,500
65	73.7	160.6	370,200	135	50.1	144.1	139,000	185	33.9	116.9	90,900	190	39.1	144.2	86,300	190	39.1	144.2	86,300
70	71.8	159.0	333,700	140	48.0	139.6	132,600	190	31.2	108.7	87,700	195	36.9	137.6	83,300	195	36.9	137.6	83,300
75	69.9	157.1	303,500	145	45.8	134.7	126,700	195	28.2	99.7	83,700	200	34.6	130.4	80,400	200	34.6	130.4	80,400
80	68.0	155.1	278,100	150	43.5	129.5	121,300	200	24.9	89.2	79,300	205	32.2	122.6	77,700	205	32.2	122.6	77,700
85	66.0	152.9	256,400	155	41.1	123.8	116,200					210	29.6	114.0	75,100	210	29.6	114.0	75,100
				160	38.5	117.6	111,500					215	26.8	104.4	72,000	215	26.8	104.4	72,000
				165	35.8	110.8	107,100					220	23.7	93.4	68,600	220	23.7	93.4	68,600
				170	32.9	103.2	102,400												
				175	29.8	94.7	96,800												
				180	26.3	84.9	90,600												

WARNING! CHECK AMOUNT OF AUX. CWT. ON MACHINE BEFORE USE OF THIS CHART.

Form No. 6281-B1, 10-29-81/GA

SEE CONDITIONS ON REVERSE SIDE

Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity:	Boom Lgth.: Feet	Oper. Rad.: Feet	Bm. Ang.: Deg.	Boom Point: Elev.	Capacity:
50	82.9	245.7	322,300		60	81.8	284.6	265,500		70	81.0	323.5	192,000	
55	81.7	244.9	320,000		65	80.8	283.8	260,000		75	80.1	322.7	190,000	
60	80.4	244.1	318,000		70	79.8	282.9	255,000		80	79.2	321.7	188,500	
65	79.2	243.1	315,000		75	78.7	281.9	243,700		85	78.3	320.7	184,000	
70	78.0	242.1	305,500		80	77.7	280.8	227,700		90	77.4	319.5	170,500	
75	76.8	240.9	283,200		85	76.6	279.6	213,900		95	76.5	318.3	160,500	
80	75.6	239.6	264,000		90	75.6	278.3	201,800		100	75.5	317.0	150,000	
85	74.3	238.2	247,300		95	74.5	276.9	191,100		105	74.6	315.6	138,900	
90	73.1	236.6	232,100		100	73.4	275.4	181,600		110	73.7	314.2	132,800	
95	71.8	235.0	215,800		105	72.3	273.8	172,900		115	72.7	312.6	127,300	
100	70.5	233.2	201,400		110	71.3	272.1	165,100		120	71.8	311.0	122,200	
105	69.3	231.3	188,700		115	70.2	270.3	157,900		125	70.9	309.2	117,500	
110	68.0	229.3	177,300		120	69.1	268.4	151,300		130	69.9	307.4	113,100	
115	66.7	227.1	167,100		125	68.0	266.3	145,200		135	68.9	305.5	109,100	
120	65.4	224.8	157,900		130	66.9	264.2	139,100		140	68.0	303.4	105,200	
125	64.0	222.4	149,600		135	65.7	261.9	132,100		145	67.0	301.3	101,600	
130	62.7	219.8	142,000		140	64.6	259.6	125,700		150	66.0	299.1	98,000	
135	61.3	217.0	135,000		145	63.5	257.1	119,800		155	65.0	296.7	95,000	
140	60.0	214.1	128,600		150	62.3	254.4	114,400		160	64.0	294.3	92,000	
145	58.6	211.1	122,700		155	61.1	251.7	109,300		165	63.0	291.8	89,000	
150	57.1	207.9	117,200		160	60.0	248.8	104,600		170	62.0	289.1	86,300	
155	55.7	204.4	112,100		165	58.8	245.8	100,200		175	61.0	286.3	83,600	
160	54.2	200.8	107,400		170	57.6	242.6	96,100		180	60.0	283.4	81,100	
165	52.7	197.0	103,000		175	56.3	239.2	92,200		185	58.9	280.4	78,600	
170	51.2	193.0	98,900		180	55.1	235.8	88,600		190	57.9	277.3	76,200	
175	49.6	188.8	95,100		185	53.8	232.1	85,200		195	56.8	274.0	73,900	
180	48.0	184.3	91,500		190	52.5	228.3	82,000		200	55.7	270.6	71,800	
185	46.4	179.6	88,100		195	51.2	224.3	79,000		205	54.6	267.0	69,700	
190	44.7	174.5	84,900		200	49.9	220.0	76,200		210	53.5	263.3	67,600	
195	43.0	169.2	81,800		205	48.5	215.6	73,500		215	52.4	259.5	65,600	
200	41.1	163.5	79,000		210	47.1	211.0	70,900		220	51.2	255.5	63,300	
205	39.3	157.4	76,300		215	45.7	206.1	68,500		225	50.1	251.3	61,100	
210	37.3	150.9	73,700		220	44.2	201.0	66,100		230	48.9	246.9	59,000	
215	35.3	143.9	71,300		225	42.7	195.6	63,900		235	47.7	242.4	57,000	
220	33.1	136.4	69,000		230	41.2	190.0	61,800		240	46.4	237.7	55,100	
225	30.8	128.1	66,800		235	39.6	183.9	59,800		245	45.1	232.9	53,200	
230	28.3	119.0	64,700		240	37.9	177.6	57,900		250	43.8	227.9	51,300	
235	25.6	108.9	62,000		245	36.2	170.8	56,100		255	42.5	222.9	49,400	
240	22.6	97.3	59,100		250	34.4	163.6	54,300		260	41.2	217.9	47,500	
60	81.2	264.4	297,400		65	81.4	304.1	229,000		70	80.4	303.2	225,000	
65	80.1	263.5	290,000		75	79.5	302.3	220,000		80	78.5	301.3	212,500	
70	79.0	262.5	282,500		85	77.5	300.2	199,600		90	76.5	299.0	188,300	
75	77.8	261.4	262,200		95	75.6	297.7	178,400		100	74.6	296.3	169,500	
80	76.7	260.2	244,900		105	73.6	294.8	161,500		110	72.6	293.2	154,300	
85	75.6	258.9	229,900		115	71.6	291.5	147,700		120	70.5	289.8	141,700	
90	74.4	257.5	216,700		125	69.5	287.9	136,100		130	68.5	285.9	130,900	
95	73.3	256.0	205,000		135	67.5	283.8	126,000		140	66.4	281.6	121,500	
100	72.1	254.4	194,500		145	65.4	279.3	117,200		150	64.3	276.9	113,000	
105	70.9	252.7	185,000		155	63.2	274.4	107,900		160	62.2	271.8	103,200	
110	69.8	250.8	175,900		165	61.1	269.0	98,800		170	60.0	266.1	94,700	
115	68.6	248.8	165,700		175	58.9	263.1	90,800		180	57.7	259.9	87,200	
120	67.4	246.7	156,500		185	56.6	256.6	83,800		190	55.4	253.2	80,600	
125	66.2	244.5	148,200		195	54.2	249.6	77,600		200	53.1	245.8	74,700	
130	65.0	242.2	140,500		205	51.8	241.9	72,000		210	50.6	237.8	69,500	
135	63.7	239.7	133,600		215	49.3	233.5	67,000		220	48.1	229.0	64,700	
140	62.5	237.1	127,200		225	46.8	224.3	62,500		230	45.4	219.4	60,400	
145	61.2	234.4	121,300		235	44.0	214.3	58,400		240	42.6	208.9	56,500	
150	60.0	231.5	115,800		245	41.2	203.2	54,700		250	39.7	197.2	52,900	
155	58.7	228.4	110,700		255	38.2	190.9	51,200		260	36.6	184.2	49,600	
160	57.4	225.2	106,000											
165	56.0	221.8	101,600											
170	54.7	218.3	97,500											
175	53.3	214.6	93,700											
180	51.9	210.7	90,100											
185	50.5	206.6	86,700											
190	49.0	202.2	83,500											
195	47.5	197.7	80,400											
200	46.0	192.9	77,600											
205	44.4	187.8	74,900											
210	42.8	182.4	72,300											
215	41.2	176.7	69,900											
220	39.4	170.7	67,600											
225	37.6	164.3	65,400											
230	35.8	157.4	63,300											
235	33.8	150.0	61,300											
240	31.7	142.0	59,300											
245	29.5	133.4	57,500											
250	27.2	123.8	55,800											
255	24.6	113.2	53,400											
260	21.7	101.1	50,900											

Combined From Charts:
No. 6281-B1 10-29-81
No. 6415 1-28-76