

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 135,000 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 135,000 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.	Jib No.	Jib Lgth.	Jib No.	Jib No.
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	140	115	53.4	134.6	123,800	200	45	82.9	206.0	382,100	220	50	82.2	225.5	352,600	240	55	80.9	224.7	341,400
38	82.7	146.4	484,900		120	51.1	130.6	116,900		50	81.4	205.2	381,400		55	80.9	224.7	341,400					
40	81.9	146.1	484,500		125	48.8	126.2	110,700		55	80.0	204.3	342,900		60	79.6	223.7	299,300					
45	79.8	145.2	476,100		130	46.3	121.5	105,100		60	78.5	203.3	300,800		65	78.2	222.7	266,000					
50	77.7	144.0	401,700		135	43.7	116.3	99,900		65	77.0	202.1	267,500		70	76.9	221.5	238,900					
55	75.6	142.7	346,900		140	41.0	110.6	95,200		70	75.6	200.8	240,400		75	75.6	220.2	216,500					
60	73.4	141.2	304,800	145	38.1	104.3	90,800	75	74.1	199.4	218,000	80	74.2	218.8	197,700								
65	71.3	139.5	271,500	150	35.1	97.3	86,700	80	72.6	197.8	199,100	85	72.8	217.2	181,600								
70	69.1	137.6	244,400	155	31.7	89.4	83,000	85	71.1	196.1	183,100	90	71.5	215.5	167,700								
75	66.9	135.5	222,000	160	28.0	80.3	79,500	90	69.5	194.2	169,200	95	70.1	213.7	155,600								
80	64.6	133.1	203,100	180	45	82.1	185.8	414,800	200	95	68.0	192.2	157,100	220	100	68.7	211.8	145,000	240	105	67.3	209.7	135,500
85	62.3	130.4	187,100		50	80.5	184.9	398,900		100	66.4	190.0	146,400		105	67.3	209.7	135,500					
90	59.9	127.5	173,200		55	78.8	183.9	344,100		105	64.8	187.6	137,000		110	65.9	207.4	127,100					
95	57.5	124.4	161,100		60	77.2	182.8	302,000		110	63.2	185.1	128,600		115	64.4	205.0	119,500					
100	55.0	120.9	150,400		65	75.6	181.5	268,700		115	61.6	182.4	121,000		120	62.9	202.4	112,700					
105	52.4	117.0	141,000		70	73.9	180.0	241,600		120	60.0	179.5	114,200		125	61.5	199.7	106,500					
110	49.8	112.8	132,600	75	72.2	178.4	219,200	125	58.3	176.4	108,000	130	60.0	196.8	100,900								
115	47.0	108.2	125,000	80	70.6	176.6	200,300	130	56.6	173.1	102,300	135	58.4	193.7	95,700								
120	44.1	103.0	118,200	85	68.8	174.7	184,300	135	54.8	169.6	97,100	140	56.9	190.5	90,900								
125	41.0	97.3	112,000	90	67.1	172.6	170,400	140	53.0	165.8	92,400	145	55.3	187.0	86,500								
130	37.6	90.9	106,300	200	95	65.4	170.3	158,300	200	145	51.2	161.8	88,000	220	150	53.7	183.3	82,500	240	155	52.0	179.5	78,700
135	34.0	83.7	101,100		100	63.6	167.8	147,600		150	49.3	157.5	84,000		155	52.0	179.5	78,700					
140	30.0	75.3	96,400		105	61.8	165.1	138,200		155	47.3	152.9	80,200		160	50.3	175.3	75,200					
40	82.9	166.3	450,100		110	60.0	162.2	129,800		160	45.3	148.0	76,700		165	48.6	170.9	72,000					
45	81.1	165.5	449,100		115	58.1	159.1	122,200		165	43.3	142.7	73,400		170	46.8	166.2	68,900					
50	79.3	164.5	400,500		120	56.2	155.7	115,400		170	41.1	137.0	70,400		175	45.0	161.3	66,100					
55	77.4	163.4	345,700	125	54.2	152.1	109,200	175	38.8	130.9	67,500	180	43.1	156.0	63,400								
60	75.6	162.1	303,600	130	52.2	148.2	103,500	180	36.4	124.2	64,900	185	41.1	150.3	60,900								
65	73.7	160.6	270,200	135	50.1	144.1	98,300	185	33.9	116.9	62,300	190	39.1	144.2	58,500								
70	71.8	159.0	243,200	140	48.0	139.6	93,600	190	31.2	108.7	60,000	195	36.9	137.6	56,300								
75	69.9	157.1	220,800	220	145	45.8	134.7	89,200	220	195	28.2	99.7	57,700	240	200	34.6	130.4	54,100	260	205	32.2	122.6	52,100
80	68.0	155.1	201,900		150	43.5	129.5	85,100		200	24.9	89.2	55,600		210	29.6	114.0	50,200					
85	66.0	152.9	185,800		155	41.1	123.8	81,400							215	26.8	104.4	48,400					
90	64.0	150.4	172,000		160	38.5	117.6	77,900							220	23.7	93.4	46,700					
95	62.0	147.8	159,800		165	35.8	110.8	74,600															
100	59.9	144.9	149,200		170	32.9	103.2	71,600															
105	57.8	141.7	139,800	175	29.8	94.7	68,700																
110	55.7	138.3	131,300	180	26.3	84.9	66,000																

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

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Form No. 6281-B2, 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:
240					60	81.8	284.6	265,500	280	70	81.0	323.5	192,000	320
					65	80.8	283.8	260,000		75	80.1	322.7	190,000	
					70	79.8	282.9	234,700		80	79.2	321.7	188,500	
					75	78.7	281.9	212,300		85	78.3	320.7	174,500	
					80	77.7	280.8	193,400		90	77.4	319.5	160,600	
240	75	76.8	240.9	215,100	280	85	76.6	279.6	177,400	320	95	76.5	318.3	148,500
	80	75.6	239.6	196,300		90	75.6	278.3	163,500		100	75.5	317.0	137,900
	85	74.3	238.2	180,200		95	74.5	276.9	151,400		105	74.6	315.6	128,400
	90	73.1	236.6	166,300		100	73.4	275.4	140,700		110	73.7	314.2	120,000
	95	71.8	235.0	154,200		105	72.3	273.8	131,300		115	72.7	312.6	112,400
240	100	70.5	233.2	143,600	280	110	71.3	272.1	122,900	320	120	71.8	311.0	105,600
	105	69.3	231.3	134,100		115	70.2	270.3	115,300		125	70.9	309.2	99,400
	110	68.0	229.3	125,700		120	69.1	268.4	108,500		130	69.9	307.4	93,800
	115	66.7	227.1	118,100		125	68.0	266.3	102,300		135	68.9	305.5	88,600
	120	65.4	224.8	111,300		130	66.9	264.2	96,600		140	68.0	303.4	83,800
240	125	64.0	222.4	105,100	280	135	65.7	261.9	91,400	320	145	67.0	301.3	79,500
	130	62.7	219.8	99,400		140	64.6	259.6	86,700		150	66.0	299.1	75,400
	135	61.3	217.0	94,300		145	63.3	257.1	82,300		155	65.0	296.7	71,600
	140	60.0	214.1	89,500		150	62.3	254.4	78,300		160	64.0	294.3	68,100
	145	58.6	211.1	85,100		155	61.1	251.7	74,500		165	63.0	291.8	64,900
240	150	57.1	207.9	81,100	280	160	60.0	248.8	71,000	320	170	62.0	289.1	61,800
	155	55.7	204.4	77,300		165	58.8	246.8	67,700		175	61.0	286.3	59,000
	160	54.2	200.8	73,800		170	57.6	244.2	64,700		180	60.0	283.4	56,300
	165	52.7	197.0	70,500		175	56.3	242.2	61,800		185	58.9	280.4	53,800
	170	51.2	193.0	67,500		180	55.1	239.8	59,200		190	57.9	277.3	51,400
240	175	49.6	188.8	64,700	280	185	53.8	232.1	56,600	320	195	56.8	274.0	49,200
	180	48.0	184.3	62,000		190	52.5	228.3	54,300		200	55.7	270.6	47,100
	185	46.4	179.6	59,500		195	51.2	224.3	52,000		205	54.6	267.0	45,000
	190	44.7	174.5	57,100		200	49.9	220.0	49,900		210	53.4	263.3	43,100
	195	43.0	169.2	54,900		205	48.5	215.6	47,900		215	52.4	259.5	41,300
240	200	41.1	163.5	52,700	280	210	47.1	211.0	46,000	320	220	51.2	255.5	39,600
	205	39.3	157.4	50,700		215	45.7	206.1	44,200		225	50.1	251.3	38,000
	210	37.3	150.9	48,800		220	44.2	201.0	42,500		230	48.9	246.9	36,400
	215	35.3	143.9	47,000		225	42.7	195.6	40,800		235	47.7	242.4	34,900
	220	33.1	136.4	45,300		230	41.2	190.0	39,300		240	46.4	237.7	33,500
240	225	30.8	128.1	43,700	280	235	39.6	183.9	37,800	320	245	45.1	233.0	32,100
	230	28.3	119.0	42,100		240	37.9	177.6	36,400		250	43.8	228.3	30,700
	235	25.6	108.9	40,600		245	36.2	170.8	35,000		255	42.5	223.6	29,300
	240	22.6	97.3	39,200		250	34.4	163.6	33,700		260	41.2	218.9	28,000
						255	32.5	155.8	32,500					
240	60	81.2	264.4	296,500	300	65	81.4	304.1	229,000	340	100	76.4	337.7	135,800
	65	80.1	263.5	263,200		70	80.4	303.2	225,000		105	75.5	336.4	127,000
	70	79.0	262.5	236,100		75	79.5	302.3	210,900		110	74.7	335.0	118,600
	75	77.8	261.4	213,100		80	78.5	301.3	192,000		115	73.8	333.6	111,000
	80	76.7	260.2	194,900		85	77.5	300.2	175,900		120	72.9	332.0	104,200
240	85	75.6	258.9	178,800	300	90	76.5	299.0	162,000	340	125	72.0	330.4	98,000
	90	74.4	257.5	164,900		95	75.6	297.7	149,800		130	71.1	328.7	92,300
	95	73.3	256.0	152,800		100	74.6	296.3	139,300		135	70.2	326.9	87,200
	100	72.1	254.4	142,100		105	73.6	294.8	129,900		140	69.3	325.0	82,400
	105	70.9	252.7	132,700		110	72.6	293.2	121,400		145	68.4	323.0	78,000
240	110	69.8	250.8	124,300	300	115	71.6	291.5	113,900	340	150	67.5	320.9	74,000
	115	68.6	248.8	116,700		120	70.5	289.8	107,000		155	66.6	318.8	70,200
	120	67.4	246.7	109,900		125	69.5	287.9	100,800		160	65.7	316.5	66,700
	125	66.2	244.5	103,700		130	68.5	285.9	95,200		165	64.8	314.1	63,500
	130	65.0	242.2	98,000		135	67.5	283.8	90,000		170	63.8	311.7	60,400
240	135	63.7	239.7	92,900	300	140	66.4	281.6	85,300	340	175	62.9	309.1	57,600
	140	62.5	237.1	88,100		145	65.4	279.3	80,900		180	61.9	306.4	54,900
	145	61.2	234.4	83,700		150	64.3	276.9	76,800		185	60.9	303.6	52,400
	150	60.0	231.5	79,700		155	63.2	274.4	73,100		190	60.0	300.7	50,000
	155	58.7	228.4	75,900		160	62.2	271.8	69,600					
240	160	57.4	225.2	72,400	300	165	61.1	269.0	66,300	340				
	165	56.0	221.8	69,200		170	60.0	266.1	63,300					
	170	54.7	218.3	66,100		175	58.9	263.1	60,400					
	175	53.3	214.6	63,300		180	57.7	259.9	57,700					
	180	51.9	210.7	60,600		185	56.6	256.6	55,200					
240	185	50.5	206.6	58,100	300	190	55.4	253.2	52,800	340				
	190	49.0	202.2	55,700		195	54.2	249.6	50,600					
	195	47.5	197.7	53,400		200	53.1	245.8	48,500					
	200	46.0	192.9	51,300		205	51.8	241.9	46,500					
	205	44.4	187.8	49,300		210	50.6	237.8	44,600					
240	210	42.8	182.4	47,400	300	215	49.3	233.5	42,800	340				
	215	41.2	176.7	45,600		220	48.1	229.0	41,100					
	220	39.4	170.7	43,900		225	46.8	224.3	39,400					
	225	37.6	164.3	42,300		230	45.4	219.4	37,900					
	230	35.8	157.4	40,700		235	44.0	214.3	36,400					
240	235	33.8	150.0	39,200	300	240	42.6	208.9	35,000	340				
	240	31.7	142.0	37,800		245	41.2	203.2	33,600					
	245	29.5	133.4	36,400		250	39.7	197.2	32,300					
	250	27.2	123.8	35,100		255	38.2	190.9	31,100					
	255	24.6	113.2	33,900		260	36.6	184.2	29,900					
240	260	21.7	101.1	32,700	300					340				

Combined From Charts:
No. 6281-82 10-29-81
No. 6415 1-28-76