



LIFTCRANE CAPACITIES

MEETS
ANSI B30.5
REQUIREMENTS

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

**BOOM NO. 27 WITH OPEN THROAT TOP OFFSET 4-1/2 DEGREES
36 FT. RINGER ATTACHMENT — ON SCREW JACKS
122,400 LB. CRANE AND 275,000 LB. AUXILIARY COUNTERWEIGHT**

NOTE: This capacity chart applies when Ringer attachment is supported on screw jacks. Some capacities on boom lengths thru 240' at radii up to 80' are reduced and may be based on structural limitation of jacks and supporting beams.

Use of proper blocking under ring will permit increased capacities in these areas per chart No. 6281-B1.

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 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 screw jacks fully set, 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. Use of proper blocking under ring will permit increased capacities per chart No. 6281-B1.

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 screw jacks, 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.		

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	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:
36	83.5	146.7	485,300		40	82.9	166.3	450,100		45	82.1	185.8	414,800		45	82.9	206.0	382,100	
38	82.7	146.4	484,900		45	81.1	165.5	447,000		50	80.5	184.9	409,000		50	81.4	205.2	381,400	
40	81.9	146.1	484,500		50	79.3	164.5	412,000		55	78.8	183.9	379,000		55	80.0	204.3	377,000	
45	79.8	145.2	449,000		55	77.4	163.4	382,000		60	77.2	182.8	353,000		60	78.5	203.3	351,000	
50	77.7	144.0	414,000		60	75.6	162.1	356,000		65	75.6	181.5	330,000		65	77.0	202.1	328,000	
55	75.6	142.7	384,000		65	73.7	160.6	333,000		70	73.9	180.0	308,000		70	75.6	200.8	306,000	
60	73.4	141.2	357,000		70	71.8	159.0	311,000		75	72.2	178.4	290,000		75	74.1	199.4	288,000	
65	71.3	139.5	334,000		75	69.9	157.1	293,000		80	70.6	176.6	274,000		80	72.6	197.8	275,300	
70	69.1	137.6	313,000		80	68.0	155.1	277,000		85	68.8	174.7	254,900		85	71.1	196.1	253,700	
75	66.9	135.5	295,000		85	66.0	152.9	256,400		90	67.1	172.6	236,100		90	69.5	194.2	235,000	
80	64.6	133.1	279,300		90	64.0	150.4	237,700		95	65.4	170.3	219,800		95	68.0	192.2	218,600	
85	62.3	130.4	257,700		95	62.0	147.8	221,400		100	63.6	167.8	205,500		100	66.4	190.0	204,300	
90	59.9	127.5	238,900		100	59.9	144.9	207,100		105	61.8	165.1	192,800		105	64.8	187.6	191,600	
95	57.5	124.4	222,600		105	57.8	141.7	194,300		110	60.0	162.2	181,400		110	63.2	185.1	180,200	
100	55.0	120.9	208,300		110	55.7	138.3	183,000		115	58.1	159.1	171,200		115	61.6	182.4	170,000	
105	52.4	117.0	195,600		115	53.4	134.6	172,800		120	56.2	155.7	162,000		120	60.0	179.5	160,800	
110	49.8	112.8	184,200		120	51.1	130.6	163,600		125	54.2	152.1	153,600		125	58.3	176.4	152,400	
115	47.0	108.2	172,800		125	48.8	126.2	155,200		130	52.2	148.2	146,000		130	56.6	173.1	144,800	
120	44.1	103.0	160,700		130	46.3	121.5	147,600		135	50.1	144.1	139,000		135	54.8	169.6	137,800	
125	41.0	97.3	149,500		135	43.7	116.3	140,600		140	48.0	139.6	132,600		140	53.0	165.8	131,400	
130	37.6	90.9	138,900		140	41.0	110.6	134,200		145	45.8	134.7	126,700		145	51.2	161.8	125,500	
135	34.0	83.7	128,900		145	38.1	104.3	127,800		150	43.5	129.5	121,300		150	49.3	157.5	120,100	
140	30.0	75.3	119,200		150	35.1	97.3	119,700		155	41.1	123.8	116,200		155	47.3	152.9	115,000	
					155	31.7	89.4	111,800		160	38.5	117.6	111,500		160	45.3	148.0	110,300	
					160	28.0	80.3	104,100		165	35.8	110.8	107,100		165	43.3	142.7	105,900	
										170	32.9	103.2	102,400		170	41.1	137.0	101,800	
										175	29.8	94.7	96,800		175	38.8	130.9	97,900	
										180	26.3	84.9	90,600		180	36.4	124.2	94,300	
															185	33.9	116.9	90,900	
															190	31.2	108.7	87,700	
															195	28.2	99.7	83,700	
															200	24.9	89.2	79,300	

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

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:
50	82.2	225.5	352,600		60	81.2	264.4	297,400		65	81.4	304.1	229,000	
55	80.9	224.7	352,400		65	80.1	263.5	290,000		70	80.4	303.2	225,000	
60	79.6	223.7	348,000		70	79.0	262.5	282,500		75	79.5	302.3	220,000	
65	78.2	222.7	325,000		75	77.8	261.4	262,200		80	78.5	301.3	212,500	
70	76.9	221.5	304,000		80	76.7	260.2	244,900		85	77.5	300.2	199,600	
75	75.6	220.2	286,000		85	75.6	258.9	229,900		90	76.5	299.0	188,300	
80	74.2	218.8	270,000		90	74.4	257.5	216,700		95	75.6	297.7	178,400	
85	72.8	217.2	252,200		95	73.3	256.0	205,000		100	74.6	296.3	169,500	
90	71.5	215.5	233,500		100	72.1	254.4	194,500		105	73.6	294.8	161,500	
95	70.1	213.7	217,200		105	70.9	252.7	185,000		110	72.6	293.2	154,300	
100	68.7	211.8	202,800		110	69.8	250.8	175,900		115	71.6	291.5	147,700	
105	67.3	209.7	190,100		115	68.6	248.8	165,700		120	70.5	289.8	141,700	
110	65.9	207.4	178,700		120	67.4	246.7	156,500		125	69.5	287.9	136,100	
115	64.4	205.0	168,500		125	66.2	244.5	148,200		130	68.5	285.9	130,900	
120	62.9	202.4	159,300		130	65.0	242.2	140,500		135	67.5	283.8	126,000	
125	61.5	199.7	151,000		135	63.7	239.7	133,600		140	66.4	281.6	121,500	
130	60.0	196.8	143,400		140	62.5	237.1	127,200		145	65.4	279.3	117,200	
135	58.4	193.7	136,400		145	61.2	234.4	121,300		150	64.3	276.9	113,000	
140	56.9	190.5	130,000		150	60.0	231.5	115,800		155	63.2	274.4	107,900	
145	55.3	187.0	124,100		155	58.7	228.4	110,700		160	62.2	271.8	103,200	
150	53.7	183.3	118,600		160	57.4	225.2	106,000		165	61.1	269.0	98,800	
155	52.0	179.5	113,500		165	56.0	221.8	101,600		170	60.0	266.1	94,700	
160	50.3	175.3	108,800		170	54.7	218.3	97,500		175	58.9	263.1	90,800	
165	48.6	170.9	104,400		175	53.3	214.6	93,700		180	57.7	259.9	87,200	
170	46.8	166.2	100,300		180	51.9	210.7	90,100		185	56.6	256.6	83,800	
175	45.0	161.3	96,500		185	50.5	206.6	86,700		190	55.4	253.2	80,600	
180	43.1	156.0	92,900		190	49.0	202.2	83,500		195	54.2	249.6	77,600	
185	41.1	150.3	89,500		195	47.5	197.7	80,400		200	53.1	245.8	74,700	
190	39.1	144.2	86,300		200	46.0	192.9	77,600		205	51.8	241.9	72,000	
195	36.9	137.6	83,300		205	44.4	187.8	74,900		210	50.6	237.8	69,500	
200	34.6	130.4	80,400		210	42.8	182.4	72,300		215	49.3	233.5	67,000	
205	32.2	122.6	77,700		215	41.2	176.7	69,900		220	48.1	229.0	64,700	
210	29.6	114.0	75,100		220	39.4	170.7	67,600		225	46.8	224.3	62,500	
215	26.8	104.4	72,000		225	37.6	164.3	65,400		230	45.4	219.4	60,400	
220	23.7	93.4	68,600		230	35.8	157.4	63,300		235	44.0	214.3	58,400	
225	21.5	82.9	65,000		235	33.8	150.0	61,300		240	42.6	208.9	56,500	
230	19.1	71.5	61,500		240	31.7	142.0	59,300		245	41.2	203.2	54,700	
235	16.7	60.0	58,000		245	29.5	133.4	57,500		250	39.7	197.2	52,900	
240	14.2	48.6	54,500		250	27.2	123.8	55,800		255	38.2	190.9	51,200	
245	11.7	37.1	51,000		255	24.6	113.2	53,400		260	36.6	184.2	49,600	
250	9.2	25.6	47,500		260	21.7	101.1	50,900		265	35.0	177.7	48,000	
255	6.7	14.1	44,000		265	18.8	88.6	48,400		270	33.4	171.2	46,400	
260	4.2	2.6	40,500		270	16.3	75.9	45,900		275	31.8	164.7	44,800	
265	1.7	-8.9	37,000		275	13.8	63.2	43,400		280	30.2	158.2	43,200	
270	-0.8	-20.4	33,500		280	11.3	50.5	40,900		285	28.6	151.7	41,600	
275	-3.3	-31.9	30,000		285	8.8	37.8	38,400		290	27.0	145.2	40,000	
280	-5.8	-43.4	26,500		290	6.3	25.1	35,900		295	25.4	138.7	38,400	
285	-8.3	-54.9	23,000		295	3.8	12.4	33,400		300	23.8	132.2	36,800	
290	-10.8	-66.4	19,500		300	1.3	-0.1	30,900		305	22.2	125.7	35,200	
295	-13.3	-77.9	16,000		305	-1.2	-12.6	28,400		310	20.6	119.2	33,600	
300	-15.8	-89.4	12,500		310	-3.7	-25.1	25,900		315	19.0	112.7	32,000	
305	-18.3	-100.9	9,000		315	-6.2	-37.6	23,400		320	17.4	106.2	30,400	
310	-20.8	-112.4	5,500		320	-8.7	-50.1	20,900		325	15.8	99.7	28,800	
315	-23.3	-123.9	2,000		325	-11.2	-62.6	18,400		330	14.2	93.2	27,200	
320	-25.8	-135.4	-1,500		330	-13.7	-75.1	15,900		335	12.6	86.7	25,600	
325	-28.3	-146.9	-4,000		335	-16.2	-87.6	13,400		340	11.0	80.2	24,000	
330	-30.8	-158.4	-7,500		340	-18.7	-100.1	10,900		345	9.4	73.7	22,400	
335	-33.3	-169.9	-11,000		345	-21.2	-112.6	8,400		350	7.8	67.2	20,800	
340	-35.8	-181.4	-14,500		350	-23.7	-125.1	5,900		355	6.2	60.7	19,200	
345	-38.3	-192.9	-18,000		355	-26.2	-137.6	3,400		360	4.6	54.2	17,600	
350	-40.8	-204.4	-21,500		360	-28.7	-150.1	900		365	3.0	47.7	16,000	
355	-43.3	-215.9	-25,000		365	-31.2	-162.6	-500		370	1.4	41.2	14,400	
360	-45.8	-227.4	-28,500		370	-33.7	-175.1	-1,000		375	-0.2	34.7	12,800	
365	-48.3	-238.9	-32,000		375	-36.2	-187.6	-1,500		380	-1.8	28.2	11,200	
370	-50.8	-250.4	-35,500		380	-38.7	-200.1	-2,000		385	-3.4	21.7	9,600	
375	-53.3	-261.9	-39,000		385	-41.2	-212.6	-2,500		390	-5.0	15.2	8,000	
380	-55.8	-273.4	-42,500		390	-43.7	-225.1	-3,000		395	-6.6	8.7	6,400	
385	-58.3	-284.9	-46,000		395	-46.2	-237.6	-3,500		400	-8.2	2.2	4,800	
390	-60.8	-296.4	-49,500		400	-48.7	-250.1	-4,000		405	-9.8	-4.3	3,200	
395	-63.3	-307.9	-53,000		405	-51.2	-262.6	-4,500		410	-11.4	-10.8	1,600	
400	-65.8	-319.4	-56,500		410	-53.7	-275.1	-5,000		415	-13.0	-17.3	0	
405	-68.3	-330.9	-60,000		415	-56.2	-287.6	-5,500		420	-14.6	-23.8		
410	-70.8	-342.4	-63,500		420	-58.7	-300.1	-6,000		425	-16.2	-30.3		
415	-73.3	-353.9	-67,000		425	-61.2	-312.6	-6,500		430	-17.8	-36.8		
420	-75.8	-365.4	-70,500		430	-63.7	-325.1	-7,000		435	-19.4	-43.3		
425	-78.3	-376.9	-74,000		435	-66.2	-337.6	-7,500		440	-21.0	-49.8		
430	-80.8	-388.4	-77,500		440	-68.7	-350.1	-8,000		445	-22.6	-56.3		
435	-83.3	-399.9	-81,000		445	-71.2	-362.6	-8,500		450	-24.2	-62.8		
440	-85.8	-411.4	-84,500		450	-73.7	-375.1	-9,000		455	-25.8	-69.3		
445	-88.3	-422.9	-88,000		455	-76.2	-387.6	-9,500		460	-27.4	-75.8		
450	-90.8	-434.4	-91,500		460	-78.7	-400.1	-10,000		465	-29.0	-82.3		
455	-93.3	-445.9	-95,000		465	-81.2	-412.6	-10,500		470	-30.6	-88.8		
460	-95.8	-457.4	-98,500		470	-83.7	-425.1	-11,000		475	-32.2	-95.3		
465	-98.3	-468.9	-102,000		475	-86.2	-437.6	-11,500		480	-33.8	-101.8		
470	-100.8	-480.4	-105,500		480	-88.7	-450.1	-12,000		485	-35.4	-108.3		
475	-103.3	-491.9	-109,000		485	-91.2	-462.6	-12,500		490	-37.0	-114.8		
480	-105.8	-503.4	-112,500		490	-93.7	-475.1	-13,000		495	-38.6	-121.3		
485	-108.3	-514.9	-116,000		495	-96.2	-487.6	-13,500		500	-40.2	-127.8		
490	-110.8	-526.4	-119,500		500	-98.7	-500.1	-14,000		505	-41.8	-134.3		
495	-113.3	-537.9	-123,000		505	-101.2	-512.6	-14,500		510	-43.4	-140.8		
500	-115.8	-549.4	-126,500		510	-103.7	-525.1	-15,000		515	-45.0	-147.3		
505	-118.3	-560.9	-130,000		515	-106.2	-537.6	-15,500		520	-46.6	-153.8		
510	-120.8	-572.4	-133,500		520	-108.7	-550.1	-16,000		525	-48.2	-160.3		
515	-123.3	-583.9	-137,000		525	-111.2	-562.6	-16,500						