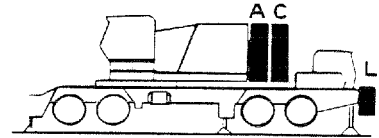


L. R. WILLSON & SONS, INC.

773 ANNAPOLIS ROAD • PO BOX 227

GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

68A BOOM – ON OUTRIGGERS OVER REAR**85% STABILITY**CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS

COUNTERWEIGHT CONFIGURATION

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD	BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD	BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
160	30	81.0	165.6	120,400	190	60	73.1	189.3	51,000	220	50	78.2	222.9	54,800
160	35	79.2	164.7	101,900	190	70	70.0	185.9	40,900	220	60	75.5	220.5	50,100
160	40	77.3	163.6	88,200	190	80	66.7	181.8	33,700	220	70	72.8	217.6	39,900
160	45	75.5	162.4	77,200	190	90	63.4	177.1	28,600	220	80	70.0	214.2	32,700
160	50	73.6	161.0	66,700	190	100	59.9	171.6	24,300	220	90	67.2	210.2	27,600
160	60	69.8	157.6	51,800	190	110	56.4	165.3	21,000	220	100	64.4	205.6	23,300
160	70	66.0	153.4	41,700	190	120	52.6	158.1	18,200	220	110	61.4	200.4	20,000
160	80	62.0	148.5	34,500	190	130	48.7	149.8	16,000	220	120	58.4	194.6	17,200
160	90	57.8	142.6	29,100	190	140	44.5	140.2	14,000	220	130	55.3	188.0	14,900
160	100	53.4	135.6	25,200	190	150	40.0	129.1	12,400	220	140	52.0	180.5	12,900
160	110	48.8	127.4	21,800	190	160	35.0	115.9	10,900	220	150	48.6	172.1	11,300
160	120	43.8	117.7	19,100	190	170	29.3	99.7	9,700	220	160	45.1	162.6	9,800
160	130	38.3	106.1	16,800	190	180	22.3	78.7	8,600	220	170	41.2	151.9	8,600
160	140	32.0	91.6	14,800	190	190	11.7	45.2	7,600	220	180	37.1	139.4	7,500
160	150	24.3	72.6	13,200						220	190	32.5	124.8	6,500
160	160	12.8	42.1	11,700						220	200	27.2	107.2	5,600
170	31	81.2	175.6	113,800	200	36	81.1	205.2	75,800	220	210	20.7	84.3	4,800
170	35	79.8	174.9	101,500	200	40	79.9	204.5	74,600	230	41	81.0	234.8	50,700
170	40	78.1	173.9	87,800	200	45	78.4	203.5	73,400	230	45	80.0	234.1	49,900
170	45	76.4	172.7	76,900	200	50	77.0	202.4	65,500	230	50	78.7	233.1	49,200
170	50	74.6	171.4	66,400	200	60	74.0	199.7	50,500	230	60	76.1	230.8	48,200
170	60	71.1	168.2	51,500	200	70	71.0	196.5	40,400	230	70	73.6	228.1	39,700
170	70	67.5	164.4	41,400	200	80	67.9	192.7	33,200	230	80	70.9	224.8	32,400
170	80	63.8	159.7	34,300	200	90	64.8	188.2	28,000	230	90	68.3	221.0	27,300
170	90	59.9	154.3	29,100	200	100	61.6	183.1	23,800	230	100	65.6	216.7	23,100
170	100	55.9	147.9	24,900	200	110	58.3	177.2	20,400	230	110	62.8	211.8	19,700
170	110	51.7	140.5	21,600	200	120	54.8	170.5	17,700	230	120	59.9	206.3	16,900
170	120	47.3	131.8	18,800	200	130	51.2	162.9	15,400	230	130	57.0	200.0	14,600
170	130	42.4	121.6	16,600	200	140	47.4	154.2	13,400	230	140	54.0	193.1	12,700
170	140	37.1	109.4	14,600	200	150	43.4	144.2	11,800	230	150	50.8	185.3	11,000
170	150	31.0	94.4	13,000	200	160	39.0	132.6	10,300	230	160	47.5	176.6	9,600
170	160	23.6	74.7	11,500	200	170	34.1	118.9	9,100	230	170	44.0	166.7	8,300
170	170	12.4	43.1	10,300	200	180	28.5	102.3	8,000	230	180	40.3	155.5	7,200
180	33	81.0	185.4	99,800	200	190	21.7	80.6	7,000	230	190	36.2	142.7	6,200
180	35	80.4	185.1	99,100	200	200	11.4	46.2	6,100	230	200	31.7	127.7	5,300
180	40	78.8	184.1	87,400	210	37	81.2	215.2	67,500	230	210	26.6	109.5	4,500
180	45	77.1	183.0	76,400	210	40	80.4	214.7	66,700	240	42	81.1	244.7	45,400
180	50	75.5	181.8	66,200	210	45	79.0	213.7	65,500	240	45	80.4	244.2	44,900
180	60	72.2	178.8	51,300	210	50	77.6	212.7	64,800	240	50	79.2	243.3	44,300
180	70	68.8	175.2	41,200	210	60	74.8	210.1	50,400	240	60	76.7	241.1	43,300
180	80	65.3	170.9	34,000	210	70	71.9	207.1	40,300	240	70	74.3	238.5	39,300
180	90	61.8	165.8	28,800	210	80	69.0	203.5	33,000	240	80	71.8	235.4	32,000
180	100	58.1	159.9	24,600	210	90	66.1	199.3	27,900	240	90	69.2	231.8	26,900
180	110	54.2	153.1	21,300	210	100	63.0	194.4	23,700	240	100	66.6	227.7	22,700
180	120	50.2	145.2	18,500	210	110	59.9	188.9	20,300	240	110	64.0	223.0	19,300
180	130	45.8	136.1	16,200	210	120	56.7	182.7	17,600	240	120	61.3	217.8	16,500
180	140	41.2	125.4	14,300	210	130	53.4	175.6	15,300	240	130	58.5	211.9	14,200
180	150	36.0	112.7	12,700	210	140	49.9	167.6	13,300	240	140	55.7	205.4	12,300
180	160	30.1	97.1	11,200	210	150	46.2	158.5	11,700	240	150	52.7	198.1	10,600
180	170	22.9	76.7	10,000	210	160	42.2	148.1	10,200	240	160	49.7	190.0	9,200
180	180	12.1	44.2	8,800	210	170	38.0	136.1	9,000	240	170	46.4	180.9	7,900
190	34	81.2	195.4	85,600	210	180	33.3	121.9	7,900	240	180	43.0	170.7	6,800
190	35	80.9	195.2	85,200	210	190	27.8	104.8	6,900	240	190	39.4	159.1	5,800
190	40	79.4	194.3	83,700	210	200	21.2	82.5	6,000	240	200	35.4	145.9	4,900
190	45	77.8	193.3	76,000	210	210	11.1	47.1	5,200	240	210	31.0	130.5	4,100
190	50	76.3	192.1	65,900	220	39	81.1	225.0	56,800					
					220	40	80.8	224.8	56,600					
					220	45	79.5	223.9	55,600					



A.I.S.C. Certified Erector



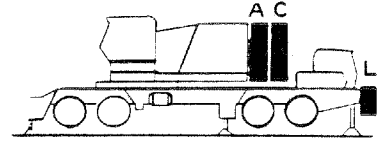
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**68A BOOM – ON OUTRIGGERS OVER REAR
85% STABILITY****CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS****COUNTERWEIGHT CONFIGURATION**

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
250	44	81.0	254.5	40,600
250	45	80.8	254.4	40,500
250	50	79.6	253.5	39,900
250	60	77.3	251.4	39,000
250	70	74.9	248.9	38,000
250	80	72.5	245.9	31,900
250	90	70.1	242.5	26,800
250	100	67.6	238.5	22,600
250	110	65.1	234.1	19,200
250	120	62.6	229.1	16,400
250	130	59.9	223.6	14,100
250	140	57.3	217.4	12,100
250	150	54.5	210.5	10,500
250	160	51.6	202.9	9,000
250	170	48.6	194.5	7,700
250	180	45.4	185.1	6,600
250	190	42.1	174.5	5,600
250	200	38.6	162.6	4,800
250	210	34.7	149.0	4,000

**SEE NOTE 6! - FOR
MACHINE ON OUTRIGGERS**

260	45	81.1	264.5	36,500
260	50	80.0	263.7	36,000
260	60	77.8	261.6	35,100
260	70	75.5	259.2	34,200
260	80	73.2	256.4	31,500
260	90	70.9	253.1	26,400

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
260	100	68.5	249.3	22,200
260	110	66.1	245.1	18,800
260	120	63.7	240.4	16,000
260	130	61.2	235.1	13,700
260	140	58.7	229.2	11,700
260	150	56.0	222.8	10,100
260	160	53.3	215.6	8,600
260	170	50.5	207.7	7,300
260	180	47.6	198.9	6,200
260	190	44.5	189.2	5,200
260	200	41.3	178.3	4,400
260	210	37.8	166.1	3,600

270	47	81.0	274.3	28,200
270	50	80.4	273.8	27,900
270	60	78.2	271.9	27,200
270	70	76.1	269.6	26,500
270	80	73.9	266.8	25,900
270	90	71.6	263.7	25,300

270	100	69.4	260.1	21,900
270	110	67.1	256.0	18,500
270	120	64.8	251.5	15,700
270	130	62.4	246.5	13,400
270	140	59.9	240.9	11,400
270	150	57.5	234.7	9,700

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
270	160	54.9	228.0	8,300
270	170	52.2	220.5	7,000
270	180	49.5	212.3	5,900
270	190	46.6	203.3	4,900
270	200	43.6	193.2	4,000
270	210	40.4	182.0	3,200

280	48	81.2	284.3	25,300
280	50	80.7	284.0	25,100
280	60	78.7	282.1	24,500
280	70	76.6	279.9	23,900
280	80	74.4	277.2	23,300
280	90	72.3	274.2	22,700

280	100	70.1	270.7	21,500
280	110	67.9	266.9	18,100
280	120	65.7	262.5	15,300
280	130	63.4	257.7	13,000
280	140	61.1	252.4	11,000
280	150	58.8	246.6	9,400
280	160	56.3	240.1	7,900
280	170	53.8	233.1	6,600
280	180	51.2	225.4	5,500
280	190	48.5	216.9	4,500
280	200	45.7	207.5	3,600
280	210	42.8	197.1	2,800

**DEDUCTION FROM RATED BOOM LOADS WHEN LIFTING OVER
BOOM POINT WITH 68A AUXILIARY SHEAVE POINT ATTACHED**

Boom Length in ft.	50 - 280
Deduct in lbs. No Hook on Aux. Sheave Point	600
Deduct in lbs. with Max. 1,200 lbs. Hook and Ball on Aux. Sheave Point	2,000

**DEDUCTION FROM RATED BOOM LOADS
WHEN LIFTING OVER BOOM POINT WITH 32A JIB ATTACHED**

Jib Length in ft.	30		50		70		90	
Boom Length in ft.	50-190	200-250	50-190	200-240	50-190	200-230	50-190	200-230
Deduct in lbs. No Hook on Jib	3,700	2,900	5,400	3,900	7,600	5,000	10,200	6,100
Deduct in lbs. With Max. 1,200 lbs. 1 Sheave Hook on Jib	5,500	4,100	7,700	5,200	10,300	6,300	13,400	7,600

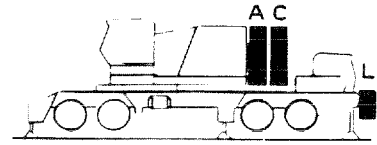
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**68A BOOM – ON OUTRIGGERS 360°
85% STABILITY****CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS****COUNTERWEIGHT CONFIGURATION**

	BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
+002	50	12	81.9	57.1	300,000
	50	13	80.7	57.0	294,900
	50	14	79.6	56.8	273,400
	50	15	78.4	56.5	254,800
	50	16	77.2	56.3	238,400
	50	17	76.0	56.0	224,100
	50	18	74.8	55.7	211,300
	50	19	73.6	55.4	199,900
	50	20	72.4	55.1	189,500
	50	25	66.2	53.1	150,400
	50	30	59.7	50.4	124,300
	50	35	52.7	46.8	100,500
	50	40	44.9	42.2	82,300
	50	45	35.8	36.0	69,300
	50	50	23.7	26.8	59,600
+003	60	14	81.3	66.9	273,100
	60	15	80.3	66.8	254,500
	60	16	79.4	66.6	238,200
	60	17	78.4	66.3	223,800
	60	18	77.4	66.1	211,000
	60	19	76.4	65.8	199,600
	60	20	75.4	65.5	189,300
	60	25	70.4	63.9	150,100
	60	30	65.2	61.8	124,100
	60	35	59.8	59.0	100,700
	60	40	54.0	55.6	82,400
	60	45	47.7	51.4	69,400
	60	50	40.7	46.0	59,800
	60	60	21.5	28.6	46,300
+004	70	16	80.9	76.7	237,900
	70	17	80.1	76.6	223,600
	70	18	79.2	76.3	210,800
	70	19	78.4	76.1	199,400
	70	20	77.6	75.9	189,100
	70	25	73.3	74.5	149,900
	70	30	69.0	72.7	123,900
	70	35	64.5	70.4	100,800
	70	40	59.8	67.7	82,500
	70	45	54.9	64.4	69,500
	70	50	49.6	60.3	59,800
	70	60	37.5	49.4	46,400
	70	70	19.8	30.3	37,500
+005	80	17	81.3	86.7	223,200
	80	18	80.6	86.5	210,400
	80	19	79.9	86.3	199,000
	80	20	79.1	86.1	188,700
	80	25	75.5	84.9	149,500
	80	30	71.7	83.4	123,500
	80	35	67.9	81.4	100,800
	80	40	63.9	79.1	82,500
	80	45	59.8	76.3	69,400
	80	50	55.8	73.5	59,800

	BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
+006	80	50	55.5	73.1	59,700
	80	60	46.2	64.7	46,300
	80	70	34.9	52.6	37,400
	80	80	18.4	31.9	31,000
	90	19	81.0	96.5	198,700
	90	20	80.4	96.3	188,400
	90	25	77.1	95.3	149,300
	90	30	73.8	93.9	123,300
	90	35	70.5	92.2	100,800
	90	40	67.0	90.2	82,400
+007	90	45	63.5	87.8	69,400
	90	50	59.8	85.0	59,700
	90	60	52.1	78.0	46,300
	90	70	43.4	68.7	37,400
	90	80	32.8	55.6	31,100
	90	90	17.3	33.4	26,300
	100	20	81.3	106.5	188,000
	100	25	78.4	105.5	148,900
	100	30	75.5	104.3	122,900
	100	35	72.5	102.8	100,700
+008	100	40	69.4	101.0	82,300
	100	45	66.3	98.9	69,300
	100	50	63.1	96.5	59,500
	100	60	56.5	90.5	46,200
	100	70	49.2	82.7	37,200
	100	80	41.0	72.5	30,900
	100	90	31.1	58.4	26,200
	100	100	16.4	34.8	22,400
	110	22	81.1	116.3	169,900
	110	25	79.5	115.7	148,500
+009	110	30	76.8	114.6	122,500
	110	35	74.1	113.3	100,600
	110	40	71.4	111.7	82,200
	110	45	68.6	109.8	69,100
	110	50	65.8	107.6	59,300
	110	60	59.9	102.3	46,000
	110	70	53.6	95.6	37,000
	110	80	46.7	87.1	30,700
	110	90	39.0	76.0	26,000
	110	100	29.6	61.0	22,300
+010	110	110	15.6	36.2	19,300
	120	24	80.9	126.1	154,600
	120	25	80.4	125.9	148,000
	120	30	77.9	124.9	122,000
	120	35	75.5	123.7	100,500
	120	40	73.0	122.2	82,000
	120	45	70.5	120.5	68,900
	120	50	67.9	118.5	59,100
	120	60	62.6	113.8	45,700
	120	70	57.1	107.8	36,800

	BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
+011	120	80	51.1	100.4	30,400
	120	90	44.6	91.2	25,800
	120	100	37.2	79.4	22,100
	120	110	28.3	63.5	19,100
	120	120	14.9	37.4	16,600
	130	25	81.1	136.1	147,600
	130	30	78.9	135.1	121,700
	130	35	76.6	134.0	100,200
	130	40	74.3	132.7	81,800
	130	45	72.0	131.1	68,700
+012	130	50	69.7	129.3	58,900
	130	60	64.9	125.0	45,500
	130	70	59.9	119.6	36,600
	130	80	54.6	113.1	30,200
	130	90	49.0	105.1	25,600
	130	100	42.8	95.2	21,900
	130	110	35.7	82.7	19,000
	130	120	27.1	65.9	16,500
	130	130	14.3	38.7	14,500
	140	27	80.9	145.9	135,800
+013	140	30	79.7	145.3	121,200
	140	35	77.6	144.3	100,100
	140	40	75.5	143.0	81,700
	140	45	73.4	141.6	68,500
	140	50	71.2	139.9	58,700
	140	60	66.8	136.0	45,300
	140	70	62.3	131.1	36,300
	140	80	57.5	125.2	29,900
	140	90	52.5	118.1	25,400
	140	100	47.1	109.4	21,700
+014	140	110	41.1	98.9	18,700
	140	120	34.3	85.8	16,300
	140	130	26.1	68.2	14,200
	140	140	13.7	39.8	12,500
	150	28	81.2	155.8	130,200
	150	30	80.4	155.5	120,800
	150	35	78.4	154.5	99,900
	150	40	76.5	153.4	81,500
	150	45	74.5	152.0	68,300
	150	50	72.5	150.5	58,500
+015	150	60	68.4	146.9	45,100
	150	70	64.3	142.4	36,100
	150	80	59.9	137.0	29,700
	150	90	55.4	130.5	25,100
	150	100	50.5	122.8	21,400
	150	110	45.4	113.7	18,400
	150	120	39.6	102.6	16,000
	150	130	33.1	88.8	14,000
	150	140	25.2	70.5	12,300
	150	150	13.3	41.0	10,800

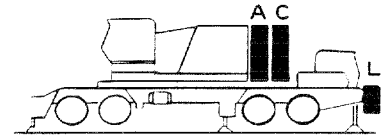
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85% STABILITY****CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS****COUNTERWEIGHT CONFIGURATION**

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD	BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD	BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
160	30	81.0	165.6	120,400	190	45	77.8	193.3	67,300	220	39	81.1	225.0	56,800
160	35	79.2	164.7	99,800	190	50	76.3	192.1	57,800	220	40	80.8	224.8	56,600
160	40	77.3	163.6	81,300	190	60	73.1	189.3	44,100	220	45	79.5	223.9	55,600
160	45	75.5	162.4	68,100	190	70	70.0	185.9	35,000	220	50	78.2	222.9	54,800
160	50	73.6	161.0	58,200	190	80	66.7	181.8	28,800	220	60	75.5	220.5	43,200
160	60	69.8	157.6	44,800	190	90	63.4	177.1	24,000	220	70	72.8	217.6	34,100
160	70	66.0	153.4	35,800	190	100	59.9	171.6	20,300	220	80	70.0	214.2	27,900
160	80	62.0	148.5	29,400	190	110	56.4	165.3	17,300	220	90	67.2	210.2	23,100
160	90	57.8	142.6	24,800	190	120	52.6	158.1	14,900	220	100	64.4	205.6	19,300
160	100	53.4	135.6	21,100	190	130	48.7	149.8	12,900	220	110	61.4	200.4	16,300
160	110	48.8	127.4	18,100	190	140	44.5	140.2	11,200	220	120	58.4	194.6	13,900
160	120	43.8	117.7	15,700	190	150	40.0	129.1	9,700	220	130	55.3	188.0	11,800
160	130	38.3	106.1	13,700	190	160	35.0	115.9	8,400	220	140	52.0	180.5	10,100
160	140	32.0	91.6	12,000	190	170	29.3	99.7	7,300	220	150	48.6	172.1	8,600
160	150	24.3	72.6	10,500	190	180	22.3	78.7	6,400	220	160	45.1	162.6	7,400
160	160	12.8	42.1	9,200	190	190	11.7	45.2	5,500	220	170	41.2	151.9	6,200
170	31	81.2	175.6	113,800	200	36	81.1	205.2	75,800	220	180	37.1	139.4	5,300
170	35	79.8	174.9	99,500	200	40	79.9	204.5	74,600	220	190	32.5	124.8	4,400
170	40	78.1	173.9	81,000	200	45	78.4	203.5	67,000	220	200	27.2	107.2	3,600
170	45	76.4	172.7	67,800	200	50	77.0	202.4	57,400	230	41	81.0	234.8	50,700
170	50	74.6	171.4	58,200	200	60	74.0	199.7	43,600	230	45	80.0	234.1	49,900
170	60	71.1	168.2	44,600	200	70	71.0	196.5	34,500	230	50	78.7	233.1	49,200
170	70	67.5	164.4	35,500	200	80	67.9	192.7	28,400	230	60	76.1	230.8	43,000
170	80	63.8	159.7	29,100	200	90	64.8	188.2	23,500	230	70	73.6	228.1	33,800
170	90	59.9	154.3	24,600	200	100	61.6	183.1	19,800	230	80	70.9	224.8	27,700
170	100	55.9	147.9	20,900	200	110	58.3	177.2	16,800	230	90	68.3	221.0	22,800
170	110	51.7	140.5	17,900	200	120	54.8	170.5	14,400	230	100	65.6	216.7	19,100
170	120	47.3	131.8	15,500	200	130	51.2	162.9	12,300	230	110	62.8	211.8	16,100
170	130	42.4	121.6	13,500	200	140	47.4	154.2	10,600	230	120	59.9	206.3	13,600
170	140	37.1	109.4	11,800	200	150	43.4	144.2	9,100	230	130	57.0	200.0	11,600
170	150	31.0	94.4	10,300	200	160	39.0	132.6	7,900	230	140	54.0	193.1	9,800
170	160	23.6	74.7	9,000	200	170	34.1	118.9	6,700	230	150	50.8	185.3	8,400
170	170	12.4	43.1	7,900	200	180	28.5	102.3	5,800	230	160	47.5	176.6	7,100
180	33	81.0	185.4	99,800	200	190	21.7	80.6	4,900	230	170	44.0	166.7	6,000
180	35	80.4	185.1	99,100	200	200	11.4	46.2	4,100	230	180	40.3	155.5	5,000
180	40	78.8	184.1	80,900	210	37	81.2	215.2	67,500	230	190	36.2	142.7	4,100
180	45	77.1	183.0	67,600	210	40	80.4	214.7	66,700	230	200	31.7	127.7	3,400
180	50	75.5	181.8	58,000	210	45	79.0	213.7	65,500	SEE NOTE 6! FOR MACHINE ON OUTRIGGERS				
180	60	72.2	178.8	44,300	210	50	77.6	212.7	57,300	240	42	81.1	244.7	45,400
180	70	68.8	175.2	35,300	210	60	74.8	210.1	43,500	240	45	80.4	244.2	44,900
180	80	65.3	170.9	29,100	210	70	71.9	207.1	34,400	240	50	79.2	243.3	44,300
180	90	61.8	165.8	24,300	210	80	69.0	203.5	28,300	240	60	76.7	241.1	42,600
180	100	58.1	159.9	20,600	210	90	66.1	199.3	23,400	240	70	74.3	238.5	33,500
180	110	54.2	153.1	17,600	210	100	63.0	194.4	19,700	240	80	71.8	235.4	27,300
180	120	50.2	145.2	15,200	210	110	59.9	188.9	16,700	240	90	69.2	231.8	22,500
180	130	45.8	136.1	13,200	210	120	56.7	182.7	14,300	240	100	66.6	227.7	18,700
180	140	41.2	125.4	11,500	210	130	53.4	175.6	12,200	240	110	64.0	223.0	15,700
180	150	36.0	112.7	10,000	210	140	49.9	167.6	10,500	240	120	61.3	217.8	13,200
180	160	30.1	97.1	8,700	210	150	46.2	158.5	9,000	240	130	58.5	211.9	11,200
180	170	22.9	76.7	7,600	210	160	42.2	148.1	7,800	240	140	55.7	205.4	9,500
180	180	12.1	44.2	6,600	210	170	38.0	136.1	6,700	240	150	52.7	198.1	8,000
190	34	81.2	195.4	85,600	210	180	33.3	121.9	5,700	240	160	49.7	190.0	6,700
190	35	80.9	195.2	85,200	210	190	27.8	104.8	4,800	240	170	46.4	180.9	5,600
190	40	79.4	194.3	80,600	210	200	21.2	82.5	4,000	240	180	43.0	170.7	4,600
										240	190	39.4	159.1	3,700
										240	200	35.4	145.9	2,900

**A.I.S.C. Certified Erector****PCI P.C.I. Qualified Erector**

L. R. WILLSON & SONS, INC.

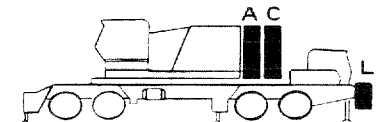
773 ANNAPOLIS ROAD • PO BOX 227

GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

**68A BOOM – ON OUTRIGGERS 360°
85% STABILITY**


CAPACITY IN POUNDS
WITH A C + L COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD		BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD		BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
SEE NOTE 6! - FOR MACHINE ON OUTRIGGERS						SEE NOTE 6! - FOR MACHINE ON OUTRIGGERS						SEE NOTE 6! - FOR MACHINE ON OUTRIGGERS				
250	44	81.0	254.5	40,600		260	80	73.2	256.4	26,800		270	140	59.9	240.9	8,600
250	45	80.8	254.4	40,500		260	90	70.9	253.1	22,000		270	150	57.5	234.7	7,100
250	50	79.6	253.5	39,900		260	100	68.5	249.3	18,200		270	160	54.9	228.0	5,800
250	60	77.3	251.4	39,000	†023	260	110	66.1	245.1	15,200		270	170	52.2	220.5	4,700
250	70	74.9	248.9	33,300		260	120	63.7	240.4	12,700		270	180	49.5	212.3	3,700
250	80	72.5	245.9	27,200		260	130	61.2	235.1	10,600		270	190	46.6	203.3	2,800
250	90	70.1	242.5	22,300		260	140	58.7	229.2	8,900		270	200	43.6	193.2	2,100
250	100	67.6	238.5	18,500		260	150	56.0	222.8	7,400						
†022 250	110	65.1	234.1	15,500		260	160	53.3	215.6	6,200		280	48	81.2	284.3	25,300
250	120	62.6	229.1	13,100		260	170	50.5	207.7	5,000		280	50	80.7	284.0	25,100
250	130	59.9	223.6	11,000		260	180	47.6	198.9	4,000		280	60	78.7	282.1	24,500
250	140	57.3	217.4	9,300		260	190	44.5	189.2	3,200		280	70	76.6	279.9	23,900
250	150	54.5	210.5	7,800		260	200	41.3	178.3	2,400		280	80	74.4	277.2	23,300
250	160	51.6	202.9	6,500								280	90	72.3	274.2	21,300
250	170	48.6	194.5	5,400		270	47	81.0	274.3	28,200		280	100	70.1	270.7	17,500
250	180	45.4	185.1	4,400		270	50	80.4	273.8	27,900		280	110	67.9	266.9	14,500
250	190	42.1	174.5	3,600		270	60	78.2	271.9	27,200	†025	280	120	65.7	262.5	12,000
250	200	38.6	162.6	2,800		270	70	76.1	269.6	26,500		280	130	63.4	257.7	9,900
						270	80	73.9	266.8	25,900		280	140	61.1	252.4	8,200
						270	90	71.6	263.7	21,600		280	150	58.8	246.6	6,700
						270	100	69.4	260.1	17,900		280	160	56.3	240.1	5,400
						270	110	67.1	256.0	14,800		280	170	53.8	233.1	4,300
						270	120	64.8	251.5	12,400		280	180	51.2	225.4	3,300
						270	130	62.4	246.5	10,300		280	190	48.5	216.9	2,400

DEDUCTION FROM RATED BOOM LOADS WHEN LIFTING OVER
BOOM POINT WITH 68A AUXILIARY SHEAVE POINT ATTACHED

Boom Length in ft.	50 - 280
Deduct in lbs. No Hook on Aux. Sheave Point	600
Deduct in lbs. with Max. 1,200 lbs. Hook and Ball on Aux. Sheave Point	2,000

DEDUCTION FROM RATED BOOM LOADS
WHEN LIFTING OVER BOOM POINT WITH 32A JIB ATTACHED

Jib Length in ft.	30		50		70		90	
Boom Length in ft.	50-190	200-250	50-190	200-240	50-190	200-230	50-190	200-230
Deduct in lbs. No Hook on Jib	3,700	2,900	5,400	3,900	7,600	5,000	10,200	6,100
Deduct in lbs. With Max. 1,200 lbs. 1 Sheave Hook on Jib	5,500	4,100	7,700	5,200	10,300	6,300	13,400	7,600



A.I.S.C. Certified Erector



PCI P.C.I. Qualified Erector

L. R. WILLSON & SONS, INC.

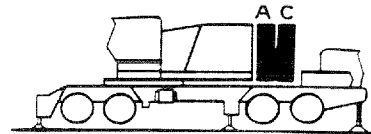
773 ANNAPOLIS ROAD • PO BOX 227

GAMBRILLS, MARYLAND 21054

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**68A BOOM – ON OUTRIGGERS OVER REAR
85% STABILITY****CAPACITY IN POUNDS
WITH A C COUNTERWEIGHTS**

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
50	12	81.9	57.1	300,000
50	13	80.7	57.0	294,900
50	14	79.6	56.8	273,400
50	15	78.4	56.5	254,800
50	16	77.2	56.3	238,400
50	17	76.0	56.0	224,100
50	18	74.8	55.7	211,300
50	19	73.6	55.4	199,900
50	20	72.4	55.1	189,500
50	25	66.2	53.1	150,400
50	30	59.7	50.4	123,700
50	35	52.7	46.8	97,600
50	40	44.9	42.2	80,300
50	45	35.8	36.0	67,900
50	50	23.7	26.8	58,600
60	14	81.3	66.9	273,100
60	15	80.3	66.8	254,500
60	16	79.4	66.6	238,200
60	17	78.4	66.3	223,800
60	18	77.4	66.1	211,000
60	19	76.4	65.8	199,600
60	20	75.4	65.6	189,300
60	25	70.4	63.9	150,100
60	30	65.2	61.8	123,900
60	35	59.8	59.0	97,800
60	40	54.0	55.6	80,400
60	45	47.7	51.4	68,000
60	50	40.7	46.0	58,800
60	60	21.5	28.6	45,700
70	16	80.9	76.7	237,900
70	17	80.1	76.6	223,600
70	18	79.2	76.3	210,800
70	19	78.4	76.1	199,400
70	20	77.6	75.9	189,100
70	25	73.3	74.5	149,900
70	30	69.0	72.7	123,900
70	35	64.5	70.4	97,900
70	40	59.8	67.7	80,500
70	45	54.9	64.4	68,100
70	50	49.6	60.3	58,800
70	60	37.5	49.4	45,800
70	70	19.8	30.3	37,100
80	17	81.3	86.7	223,200
80	18	80.6	86.5	210,400
80	19	79.9	86.3	199,000
80	20	79.1	86.1	188,700
80	25	75.5	84.9	149,500
80	30	71.7	83.4	123,500
80	35	67.9	81.4	97,800
80	40	63.9	79.1	80,400
80	45	59.8	76.3	68,000

**COUNTERWEIGHT CONFIGURATION**

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
80	50	55.5	73.1	58,600
80	60	46.2	64.7	45,700
80	70	34.9	52.6	37,000
80	80	18.4	31.9	30,700
90	19	81.0	96.5	198,700
90	20	80.4	96.3	188,400
90	25	77.1	95.3	149,300
90	30	73.8	93.9	123,300
90	35	70.5	92.2	97,800
90	40	67.0	90.2	80,400
90	45	63.5	87.8	67,900
90	50	59.8	85.0	58,600
90	60	52.1	78.0	45,700
90	70	43.4	68.7	37,000
90	80	32.8	55.6	30,800
90	90	17.3	33.4	26,100
100	20	81.3	106.5	188,000
100	25	78.4	105.5	148,900
100	30	75.5	104.3	122,900
100	35	72.5	102.8	97,700
100	40	69.4	101.0	80,300
100	45	66.3	98.9	67,800
100	50	63.1	96.5	58,600
100	60	56.5	90.5	45,500
100	70	49.2	82.7	36,800
100	80	41.0	72.5	30,500
100	90	31.1	58.4	26,000
100	100	16.4	34.8	22,300
110	22	81.1	116.3	169,900
110	25	79.5	115.7	148,500
110	30	76.8	114.6	122,500
110	35	74.1	113.3	97,500
110	40	71.4	111.7	80,100
110	45	68.6	109.8	67,600
110	50	65.8	107.6	58,400
110	60	59.9	102.3	45,300
110	70	53.6	95.6	36,600
110	80	46.7	87.1	30,300
110	90	39.0	76.0	25,800
110	100	29.6	61.0	22,100
110	110	15.6	36.2	19,200
120	24	80.9	126.1	154,600
120	25	80.4	125.9	148,000
120	30	77.9	124.9	122,000
120	35	75.5	123.7	97,400
120	40	73.0	122.2	80,000
120	45	70.5	120.5	67,400
120	50	67.9	118.5	58,200
120	60	62.6	113.8	45,100
120	70	57.1	107.8	36,300

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
120	80	51.1	100.4	30,100
120	90	44.6	91.2	25,500
120	100	37.2	79.4	21,900
120	110	28.3	63.5	19,000
120	120	14.9	37.4	16,500
130	25	81.1	136.1	147,600
130	30	78.9	135.1	121,700
130	35	76.6	134.0	97,100
130	40	74.3	132.7	79,700
130	45	72.0	131.1	67,200
130	50	69.7	129.3	58,000
130	60	64.9	125.0	44,900
130	70	59.9	119.6	36,100
130	80	54.6	113.1	29,900
130	90	49.0	105.1	25,400
130	100	42.8	95.2	21,700
130	110	35.7	82.7	18,800
130	120	27.1	65.9	16,400
130	130	14.3	38.7	14,400
140	27	80.9	145.9	135,800
140	30	79.7	145.3	121,200
140	35	77.6	144.3	97,000
140	40	75.5	143.0	79,600
140	45	73.4	141.6	67,000
140	50	71.2	139.9	57,800
140	60	66.8	136.0	44,600
140	70	62.3	131.1	35,900
140	80	57.5	125.2	29,600
140	90	52.5	118.1	25,100
140	100	47.1	109.4	21,500
140	110	41.1	98.9	18,500
140	120	34.3	85.8	16,100
140	130	26.1	68.2	14,100
140	140	13.7	39.8	12,400
150	28	81.2	155.8	130,200
150	30	80.4	155.5	120,800
150	35	78.4	154.5	96,800
150	40	76.5	153.4	79,300
150	45	74.5	152.0	66,700
150	50	72.5	150.5	57,500
150	60	68.4	146.9	44,400
150	70	64.3	142.4	35,600
150	80	59.9	137.0	29,300
150	90	55.4	130.5	24,900
150	100	50.5	122.8	21,200
150	110	45.4	113.7	18,300
150	120	39.6	102.6	15,900
150	130	33.1	88.8	13,900
150	140	25.2	70.5	12,200
150	150	13.3	41.0	10,700

**A.I.S.C. Certified Erector****PCI P.C.I. Qualified Erector**

L. R. WILLSON & SONS, INC.

773 ANNAPOLIS ROAD • PO BOX 227

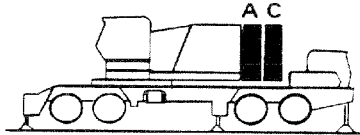
GAMBRILLS, MARYLAND 21054

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**68A BOOM – ON OUTRIGGERS OVER REAR
85% STABILITY****CAPACITY IN POUNDS
WITH A C COUNTERWEIGHTS**

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
160	30	81.0	165.6	120,400
160	35	79.2	164.7	96,700
160	40	77.3	163.6	79,200
160	45	75.5	162.4	66,500
160	50	73.6	161.0	57,300
160	60	69.8	157.6	44,100
160	70	66.0	153.4	35,300
160	80	62.0	148.5	29,000
160	90	57.8	142.6	24,600
160	100	53.4	135.6	20,900
160	110	48.8	127.4	18,000
160	120	43.8	117.7	15,600
160	130	38.3	106.1	13,600
160	140	32.0	91.6	11,900
160	150	24.3	72.6	10,400
160	160	12.8	42.1	9,200
170	31	81.2	175.6	113,800
170	35	79.8	174.9	96,300
170	40	78.1	173.9	78,900
170	45	76.4	172.7	66,200
170	50	74.6	171.4	57,000
170	60	71.1	168.2	43,800
170	70	67.5	164.4	35,000
170	80	63.8	159.7	29,000
170	90	59.9	154.3	24,300
170	100	55.9	147.9	20,700
170	110	51.7	140.5	17,800
170	120	47.3	131.8	15,400
170	130	42.4	121.6	13,400
170	140	37.1	109.4	11,700
170	150	31.0	94.4	10,200
170	160	23.6	74.7	9,000
170	170	12.4	43.1	7,900
180	33	81.0	185.4	99,800
180	35	80.4	185.1	96,200
180	40	78.8	184.1	78,700
180	45	77.1	183.0	66,000
180	50	75.5	181.8	56,800
180	60	72.2	178.8	43,600
180	70	68.8	175.2	34,800
180	80	65.3	170.9	28,800
180	90	61.8	165.8	24,100
180	100	58.1	159.9	20,400
180	110	54.2	153.1	17,500
180	120	50.2	145.2	15,100
180	130	45.8	136.1	13,100
180	140	41.2	125.4	11,400
180	150	36.0	112.7	9,900
180	160	30.1	97.1	8,700
180	170	22.9	76.7	7,600
180	180	12.1	44.2	6,600
190	34	81.2	195.4	85,600
190	35	80.9	195.2	85,200
190	40	79.4	194.3	78,500
190	45	77.8	193.3	65,800
190	50	76.3	192.1	56,600

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
190	60	73.1	189.3	43,300
190	70	70.0	185.9	34,500
190	80	66.7	181.8	28,500
190	90	63.4	177.1	23,800
190	100	59.9	171.6	20,100
190	110	56.4	165.3	17,200
190	120	52.6	158.1	14,800
190	130	48.7	149.8	12,800
190	140	44.5	140.2	11,100
190	150	40.0	129.1	9,600
190	160	35.0	115.9	8,400
190	170	29.3	99.7	7,300
190	180	22.3	78.7	6,300
190	190	11.7	45.2	5,400
200	36	81.1	205.2	75,800
200	40	79.9	204.5	74,600
200	45	78.4	203.5	65,400
200	50	77.0	202.4	56,200
200	60	74.0	199.7	42,900
200	70	71.0	196.5	34,000
200	80	67.9	192.7	28,000
200	90	64.8	188.2	23,300
200	100	61.6	183.1	19,600
200	110	58.3	177.2	16,600
200	120	54.8	170.5	14,200
200	130	51.2	162.9	12,200
200	140	47.4	154.2	10,500
200	150	43.4	144.2	9,100
200	160	39.0	132.6	7,800
200	170	34.1	118.9	6,700
200	180	28.5	102.3	5,700
200	190	21.7	80.6	4,900
200	200	11.4	46.2	4,100
210	37	81.2	215.2	67,500
210	40	80.4	214.7	66,700
210	45	79.0	213.7	65,300
210	50	77.6	212.7	56,100
210	60	74.8	210.1	42,800
210	70	71.9	207.1	33,900
210	80	69.0	203.5	27,900
210	90	66.1	199.3	23,200
210	100	63.0	194.4	19,500
210	110	59.9	188.9	16,500
210	120	56.7	182.7	14,100
210	130	53.4	175.6	12,100
210	140	49.9	167.6	10,400
210	150	46.2	158.5	9,000
210	160	42.2	148.1	7,700
210	170	38.0	136.1	6,600
210	180	33.3	121.9	5,600
210	190	27.8	104.8	4,800
210	200	21.2	82.5	4,000
210	210	11.1	47.1	3,300
220	39	81.1	225.0	56,800
220	40	80.8	224.8	56,600
220	45	79.5	223.9	55,600

**COUNTERWEIGHT CONFIGURATION**

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
220	50	78.2	222.9	54,800
220	60	75.5	220.5	42,400
220	70	72.8	217.6	33,500
220	80	70.0	214.2	27,500
220	90	67.2	210.2	22,800
220	100	64.4	205.6	19,100
220	110	61.4	200.4	16,100
220	120	58.4	194.6	13,700
220	130	55.3	188.0	11,700
220	140	52.0	180.5	10,000
220	150	48.6	172.1	8,500
220	160	45.1	162.6	7,300
220	170	41.2	151.9	6,200
220	180	37.1	139.4	5,200
220	190	32.5	124.8	4,300
220	200	27.2	107.2	3,600
220	210	20.7	84.3	2,900
230	41	81.0	234.8	50,700
230	45	80.0	234.1	49,900
230	50	78.7	233.1	49,200
230	60	76.1	230.8	42,200
230	70	73.6	228.1	33,300
230	80	70.9	224.8	27,300
230	90	68.3	221.0	22,500
230	100	65.6	216.7	18,800
230	110	62.8	211.8	15,900
230	120	59.9	206.3	13,500
230	130	57.0	200.0	11,400
230	140	54.0	193.1	9,700
230	150	50.8	185.3	8,300
230	160	47.5	176.6	7,000
230	170	44.0	166.7	5,900
230	180	40.3	155.5	4,900
230	190	36.2	142.7	4,100
230	200	31.7	127.7	3,300
230	210	26.6	109.5	2,600

**SEE NOTE 6! - FOR MACHINE ON
OUTRIGGERS**

240	42	81.1	244.7	45,400
240	45	80.4	244.2	44,900
240	50	79.2	243.3	44,300
240	60	76.7	241.1	41,800
240	70	74.3	238.5	32,900
240	80	71.8	235.4	26,900
240	90	69.2	231.8	22,200
240	100	66.6	227.7	18,500
240	110	64.0	223.0	15,500
240	120	61.3	217.8	13,100
240	130	58.5	211.9	11,100
240	140	55.7	205.4	9,300
240	150	52.7	198.1	7,900
240	160	49.7	190.0	6,600
240	170	46.4	180.9	5,500
240	180	43.0	170.7	4,500
240	190	39.4	159.1	3,700
240	200	35.4	145.9	2,900
240	210	31.0	130.5	2,200

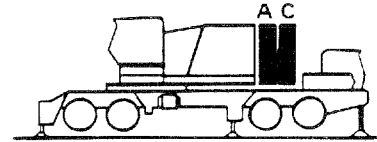
**A.I.S.C. Certified Erector****PCI P.C.I. Qualified Erector**

L. R. WILLSON & SONS, INC.

773 ANNAPOLIS ROAD • PO BOX 227

GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

**68A BOOM – ON OUTRIGGERS OVER REAR
85% STABILITY****CAPACITY IN POUNDS
WITH A/C COUNTERWEIGHTS****COUNTERWEIGHT CONFIGURATION**

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD	BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD	BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
SEE NOTE 6! FOR MACHINES ON OUTRIGGERS														
250	44	81.0	254.5	40,600	250	160	51.6	202.9	6,500	260	90	70.9	253.1	21,600
250	45	80.8	254.4	40,500	250	170	48.6	194.5	5,400	260	100	68.5	249.3	17,900
250	50	79.6	253.5	39,900	250	180	45.4	185.1	4,400	260	110	66.1	245.1	15,000
250	60	77.3	251.4	39,000	250	190	42.1	174.5	3,500	260	120	63.7	240.4	12,500
250	70	74.9	248.9	32,800	250	200	38.6	162.6	2,800	260	130	61.2	235.1	10,500
250	80	72.5	245.9	26,800	250	210	34.7	149.0	2,100	260	140	58.7	229.2	8,800
250	90	70.1	242.5	22,000						260	150	56.0	222.8	7,300
250	100	67.6	238.5	18,300	260	45	81.1	264.5	36,500	260	160	53.3	215.6	6,100
250	110	65.1	234.1	15,300	260	50	80.0	263.7	36,000	260	170	50.5	207.7	5,000
250	120	62.6	229.1	12,900	260	60	77.8	261.6	35,100	260	180	47.6	198.9	4,000
250	130	59.9	223.6	10,900	260	70	75.5	259.2	32,400	260	190	44.5	189.2	3,100
250	140	57.3	217.4	9,200	260	80	73.2	256.4	26,400	260	200	41.3	178.3	2,300
250	150	54.5	210.5	7,700										

**DEDUCTION FROM RATED BOOM LOADS WHEN LIFTING OVER
BOOM POINT WITH 68A AUXILIARY SHEAVE POINT ATTACHED**

Boom Length in ft.	50 - 280
Deduct in lbs. No Hook on Aux. Sheave Point	600
Deduct in lbs. with Max. 1,200 lbs. Hook and Ball on Aux. Sheave Point	2,000

**DEDUCTION FROM RATED BOOM LOADS
WHEN LIFTING OVER BOOM POINT WITH 32A JIB ATTACHED**

Jib Length in ft.	30		50		70		90	
Boom Length in ft.	50-190	200-250	50-190	200-240	50-190	200-230	50-190	200-230
Deduct in lbs. No Hook on Jib	3,700	2,900	5,400	3,900	7,600	5,000	10,200	6,100
Deduct in lbs. With Max. 1,200 lbs. 1 Sheave Hook on Jib	5,500	4,100	7,700	5,200	10,300	6,300	13,400	7,600

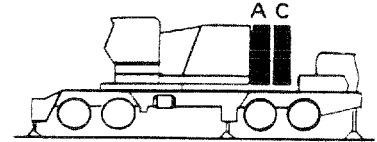
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773 ANNAPOLIS ROAD • PO BOX 227

GAMBRILLS, MARYLAND 21054

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**68A BOOM – ON OUTRIGGERS 360°
85% STABILITY****CAPACITY IN POUNDS
WITH A C COUNTERWEIGHTS****COUNTERWEIGHT CONFIGURATION**

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
50	12	81.9	57.1	300,000
50	13	80.7	57.0	294,900
50	14	79.6	56.8	273,400
50	15	78.4	56.5	254,800
50	16	77.2	56.3	238,400
50	17	76.0	56.0	224,100
50	18	74.8	55.7	211,300
50	19	73.6	55.4	199,900
50	20	72.4	55.1	189,500
50	25	66.2	53.1	150,400
50	30	59.7	50.4	122,500
50	35	52.7	46.8	95,900
50	40	44.9	42.2	78,400
50	45	35.8	36.0	66,000
50	50	23.7	26.8	56,800
60	14	81.3	66.9	273,100
60	15	80.3	66.8	254,500
60	16	79.4	66.6	238,200
60	17	78.4	66.3	223,800
60	18	77.4	66.1	211,000
60	19	76.4	65.8	199,600
60	20	75.4	65.6	189,300
60	25	70.4	63.9	150,100
60	30	65.2	61.8	122,800
60	35	59.8	59.0	96,100
60	40	54.0	55.6	78,600
60	45	47.7	51.4	66,100
60	50	40.7	46.0	56,900
60	60	21.5	28.6	44,000
70	16	80.9	76.7	237,900
70	17	80.1	76.6	223,600
70	18	79.2	76.3	210,800
70	19	78.4	76.1	199,400
70	20	77.6	75.9	189,100
70	25	73.3	74.5	149,900
70	30	69.0	72.7	122,900
70	35	64.5	70.4	96,200
70	40	59.8	67.7	78,600
70	45	54.9	64.4	66,200
70	50	49.6	60.3	57,000
70	60	37.5	49.4	44,200
70	70	19.8	30.3	35,600
80	17	81.3	86.7	223,200
80	18	80.6	86.5	210,400
80	19	79.9	86.3	199,000
80	20	79.1	86.1	188,700
80	25	75.5	84.9	149,500
80	30	71.7	83.4	123,000
80	35	67.9	81.4	96,100
80	40	63.9	79.1	78,600
80	45	59.8	76.3	66,100

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
80	50	55.5	73.1	57,000
80	60	46.2	64.7	44,100
80	70	34.9	52.6	35,500
80	80	18.4	31.9	29,400
90	19	81.0	96.5	198,700
90	20	80.4	96.3	188,400
90	25	77.1	95.3	149,300
90	30	73.8	93.9	122,900
90	35	70.5	92.2	96,100
90	40	67.0	90.2	78,600
90	45	63.5	87.8	66,100
90	50	59.8	85.0	56,900
90	60	52.1	78.0	44,000
90	70	43.4	68.7	35,500
90	80	32.8	55.6	29,400
90	90	17.3	33.4	24,900
100	20	81.3	106.5	188,000
100	25	78.4	105.5	148,900
100	30	75.5	104.3	122,900
100	35	72.5	102.8	96,000
100	40	69.4	101.0	78,500
100	45	66.3	98.9	66,000
100	50	63.1	96.5	56,800
100	60	56.5	90.5	43,900
100	70	49.2	82.7	35,300
100	80	41.0	72.5	29,200
100	90	31.1	58.4	24,800
100	100	16.4	34.8	21,200
110	22	81.1	116.3	169,900
110	25	79.5	115.7	148,500
110	30	76.8	114.6	122,500
110	35	74.1	113.3	95,900
110	40	71.4	111.7	78,300
110	45	68.6	109.8	65,800
110	50	65.8	107.6	56,600
110	60	59.9	102.3	43,700
110	70	53.6	95.6	35,100
110	80	46.7	87.1	29,200
110	90	39.0	76.0	24,600
110	100	29.6	61.0	21,100
110	110	15.6	36.2	18,200
120	24	80.9	126.1	154,600
120	25	80.4	125.9	148,000
120	30	77.9	124.9	122,000
120	35	75.5	123.7	95,800
120	40	73.0	122.2	78,200
120	45	70.5	120.5	65,600
120	50	67.9	118.5	56,400
120	60	62.6	113.8	43,500
120	70	57.1	107.8	34,900

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
120	80	51.1	100.4	28,900
120	90	44.6	91.2	24,400
120	100	37.2	79.4	20,800
120	110	28.3	63.5	18,000
120	120	14.9	37.4	15,600
130	25	81.1	136.1	147,600
130	30	78.9	135.1	121,700
130	35	76.6	134.0	95,500
130	40	74.3	132.7	77,900
130	45	72.0	131.1	65,400
130	50	69.7	129.3	56,200
130	60	64.9	125.0	43,300
130	70	59.9	119.6	34,700
130	80	54.6	113.1	28,800
130	90	49.0	105.1	24,200
130	100	42.8	95.2	20,700
130	110	35.7	82.7	17,800
130	120	27.1	65.9	15,500
130	130	14.3	38.7	13,600
140	27	80.9	145.9	135,800
140	30	79.7	145.3	121,200
140	35	77.6	144.3	95,500
140	40	75.5	143.0	77,800
140	45	73.4	141.6	65,200
140	50	71.2	139.9	56,100
140	60	66.8	136.0	43,000
140	70	62.3	131.1	34,400
140	80	57.5	125.2	28,500
140	90	52.5	118.1	23,900
140	100	47.1	109.4	20,400
140	110	41.1	98.9	17,600
140	120	34.3	85.8	15,200
140	130	26.1	68.2	13,300
140	140	13.7	39.8	11,600
150	28	81.2	155.8	130,200
150	30	80.4	155.5	120,800
150	35	78.4	154.5	95,200
150	40	76.5	153.4	77,600
150	45	74.5	152.0	65,000
150	50	72.5	150.5	55,800
150	60	68.4	146.9	42,800
150	70	64.3	142.4	34,200
150	80	59.9	137.0	28,300
150	90	55.4	130.5	23,700
150	100	50.5	122.8	20,100
150	110	45.4	113.7	17,300
150	120	39.6	102.6	15,000
150	130	33.1	88.8	13,100
150	140	25.2	70.5	11,400
150	150	13.3	41.0	10,000

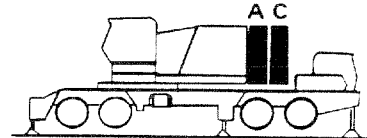
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68A BOOM – ON OUTRIGGERS OVER REAR**85% STABILITY****CAPACITY IN POUNDS
WITH A C COUNTERWEIGHTS****COUNTERWEIGHT CONFIGURATION**

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
160	30	81.0	165.6	120,400
160	35	79.2	164.7	96,700
160	40	77.3	163.6	79,200
160	45	75.5	162.4	66,500
160	50	73.6	161.0	57,300
160	60	69.8	157.6	44,100
160	70	66.0	153.4	35,300
160	80	62.0	148.5	29,000
160	90	57.8	142.6	24,600
160	100	53.4	135.6	20,900
160	110	48.8	127.4	18,000
160	120	43.8	117.7	15,600
160	130	38.3	106.1	13,600
160	140	32.0	91.6	11,900
160	150	24.3	72.6	10,400
160	160	12.8	42.1	9,200
170	31	81.2	175.6	113,800
170	35	79.8	174.9	96,300
170	40	78.1	173.9	78,900
170	45	76.4	172.7	66,200
170	50	74.6	171.4	57,000
170	60	71.1	168.2	43,800
170	70	67.5	164.4	35,000
170	80	63.8	159.7	29,000
170	90	59.9	154.3	24,300
170	100	55.9	147.9	20,700
170	110	51.7	140.5	17,800
170	120	47.3	131.8	15,400
170	130	42.4	121.6	13,400
170	140	37.1	109.4	11,700
170	150	31.0	94.4	10,200
170	160	23.6	74.7	9,000
170	170	12.4	43.1	7,900
180	33	81.0	185.4	99,800
180	35	80.4	185.1	96,200
180	40	78.8	184.1	78,700
180	45	77.1	183.0	66,000
180	50	75.5	181.8	56,800
180	60	72.2	178.8	43,600
180	70	68.8	175.2	34,800
180	80	65.3	170.9	28,800
180	90	61.8	165.8	24,100
180	100	58.1	159.9	20,400
180	110	54.2	153.1	17,500
180	120	50.2	145.2	15,100
180	130	45.8	136.1	13,100
180	140	41.2	125.4	11,400
180	150	36.0	112.7	9,900
180	160	30.1	97.1	8,700
180	170	22.9	76.7	7,600
180	180	12.1	44.2	6,600
190	34	81.2	195.4	85,600
190	35	80.9	195.2	85,200
190	40	79.4	194.3	78,500
190	45	77.8	193.3	65,800
190	50	76.3	192.1	56,600

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
190	60	73.1	189.3	43,300
190	70	70.0	185.9	34,500
190	80	66.7	181.8	28,500
190	90	63.4	177.1	23,800
190	100	59.9	171.6	20,100
190	110	56.4	165.3	17,200
190	120	52.6	158.1	14,800
190	130	48.7	149.8	12,800
190	140	44.5	140.2	11,100
190	150	40.0	129.1	9,600
190	160	35.0	115.9	8,400
190	170	29.3	99.7	7,300
190	180	22.3	78.7	6,300
190	190	11.7	45.2	5,400
200	36	81.1	205.2	75,800
200	40	79.9	204.5	74,600
200	45	78.4	203.5	65,400
200	50	77.0	202.4	56,200
200	60	74.0	199.7	42,900
200	70	71.0	196.5	34,000
200	80	67.9	192.7	28,000
200	90	64.8	188.2	23,300
200	100	61.6	183.1	19,600
200	110	58.3	177.2	16,600
200	120	54.8	170.5	14,200
200	130	51.2	162.9	12,200
200	140	47.4	154.2	10,500
200	150	43.4	144.2	9,100
200	160	39.0	132.6	7,800
200	170	34.1	118.9	6,700
200	180	28.5	102.3	5,700
200	190	21.7	80.6	4,900
200	200	11.4	46.2	4,100
210	37	81.2	215.2	67,500
210	40	80.4	214.7	66,700
210	45	79.0	213.7	65,300
210	50	77.6	212.7	56,100
210	60	74.8	210.1	42,800
210	70	71.9	207.1	33,900
210	80	69.0	203.5	27,900
210	90	66.1	199.3	23,200
210	100	63.0	194.4	19,500
210	110	59.9	188.9	16,500
210	120	56.7	182.7	14,100
210	130	53.4	175.6	12,100
210	140	49.9	167.6	10,400
210	150	46.2	158.5	9,000
210	160	42.2	148.1	7,700
210	170	38.0	136.1	6,600
210	180	33.3	121.9	5,600
210	190	27.8	104.8	4,800
210	200	21.2	82.5	4,000
210	210	11.1	47.1	3,300
220	39	81.1	225.0	56,800
220	40	80.8	224.8	56,600
220	45	79.5	223.9	55,600

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
220	50	78.2	222.9	54,800
220	60	75.5	220.5	42,400
220	70	72.8	217.6	33,500
220	80	70.0	214.2	27,500
220	90	67.2	210.2	22,800
220	100	64.4	205.6	19,100
220	110	61.4	200.4	16,100
220	120	58.4	194.6	13,700
220	130	55.3	188.0	11,700
220	140	52.0	180.5	10,000
220	150	48.6	172.1	8,500
220	160	45.1	162.6	7,300
220	170	41.2	151.9	6,200
220	180	37.1	139.4	5,200
220	190	32.5	124.8	4,300
220	200	27.2	107.2	3,600
220	210	20.7	84.3	2,900
230	41	81.0	234.8	50,700
230	45	80.0	234.1	49,900
230	50	78.7	233.1	49,200
230	60	76.1	230.8	42,200
230	70	73.6	228.1	33,300
230	80	70.9	224.8	27,300
230	90	68.3	221.0	22,500
230	100	65.6	216.7	18,800
230	110	62.8	211.8	15,900
230	120	59.9	206.3	13,500
230	130	57.0	200.0	11,400
230	140	54.0	193.1	9,700
230	150	50.8	185.3	8,300
230	160	47.5	176.6	7,000
230	170	44.0	166.7	5,900
230	180	40.3	155.5	4,900
230	190	36.2	142.7	4,100
230	200	31.7	127.7	3,300
230	210	26.6	109.5	2,600

**SEE NOTE 6! - FOR MACHINE ON
OUTRIGGERS**

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
240	42	81.1	244.7	45,400
240	45	80.4	244.2	44,900
240	50	79.2	243.3	44,300
240	60	76.7	241.1	41,800
240	70	74.3	238.5	32,900
240	80	71.8	235.4	26,900
240	90	69.2	231.8	22,200
240	100	66.6	227.7	18,500
240	110	64.0	223.0	15,500
240	120	61.3	217.8	13,100
240	130	58.5	211.9	11,100
240	140	55.7	205.4	9,300
240	150	52.7	198.1	7,900
240	160	49.7	190.0	6,600
240	170	46.4	180.9	5,500
240	180	43.0	170.7	4,500
240	190	39.4	159.1	3,700
240	200	35.4	145.9	2,900
240	210	31.0	130.5	2,200

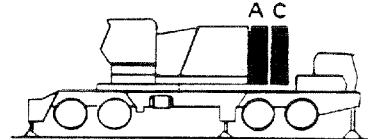
**A.I.S.C. Certified Erector****PCI P.C.I. Qualified Erector**

L. R. WILLSON & SONS, INC.

773 ANNAPOLIS ROAD • PO BOX 227

GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

**68A BOOM – ON OUTRIGGERS 360°
85% STABILITY****CAPACITY IN POUNDS
WITH A/C COUNTERWEIGHTS****COUNTERWEIGHT CONFIGURATION**

BOOM LGTH	LOAD RAD	BOOM SHEAVE ANG	SHEAVE HGT	RATED LOAD	BOOM LGTH	LOAD RAD	BOOM SHEAVE ANG	SHEAVE HGT	RATED LOAD	BOOM LGTH	LOAD RAD	BOOM SHEAVE ANG	SHEAVE HGT	RATED LOAD
SEE NOTE 6! FOR MACHINE ON OUTRIGGERS														
250	44	81.0	254.5	40,600	250	140	57.3	217.4	8,400	260	80	73.2	256.4	25,200
250	45	80.8	254.4	40,500	250	150	54.5	210.5	7,000	260	90	70.9	253.1	20,500
250	50	79.6	253.5	39,900	250	160	51.6	202.9	5,800	260	100	68.5	249.3	16,900
250	60	77.3	251.4	39,000	250	170	48.6	194.5	4,700	260	110	66.1	245.1	14,000
250	70	74.9	248.9	31,400	250	180	45.4	185.1	3,800	260	120	63.7	240.4	11,700
250	80	72.5	245.9	25,500	250	190	42.1	174.5	2,900	260	130	61.2	235.1	9,700
250	90	70.1	242.5	20,900	250	200	38.6	162.6	2,200	260	140	58.7	229.2	8,000
250	100	67.6	238.5	17,300						260	150	56.0	222.8	6,600
250	110	65.1	234.1	14,400	260	45	81.1	264.5	36,500	260	160	53.3	215.6	5,400
250	120	62.6	229.1	12,000	260	50	80.0	263.7	36,000	260	170	50.5	207.7	4,300
250	130	59.9	223.6	10,100	260	60	77.8	261.6	35,100	260	180	47.6	198.9	3,400
					260	70	75.5	259.2	31,000	260	190	44.5	189.2	2,500

**DEDUCTION FROM RATED BOOM LOADS WHEN LIFTING OVER
BOOM POINT WITH 68A AUXILIARY SHEAVE POINT ATTACHED**

Boom Length in ft.	50 - 280
Deduct in lbs. No Hook on Aux. Sheave Point	600
Deduct in lbs. with Max. 1,200 lbs. Hook and Ball on Aux. Sheave Point	2,000

**DEDUCTION FROM RATED BOOM LOADS
WHEN LIFTING OVER BOOM POINT WITH 32A JIB ATTACHED**

Jib Length in ft.	30		50		70		90	
Boom Length in ft.	50-190	200-250	50-190	200-240	50-190	200-230	50-190	200-230
Deduct in lbs. No Hook on Jib	3,700	2,900	5,400	3,900	7,600	5,000	10,200	6,100
Deduct in lbs. with Max. 1,200 lbs. 1 Sheave Hook on Jib	5,500	4,100	7,700	5,200	10,300	6,300	13,400	7,600

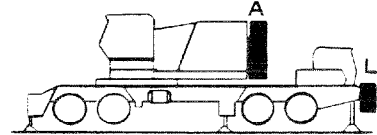
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**68A BOOM – ON OUTRIGGERS OVER REAR
85% STABILITY****CAPACITY IN POUNDS
WITH A + L COUNTERWEIGHTS****COUNTERWEIGHT CONFIGURATION**

CAPACITY IN POUNDS WITH A + L COUNTERWEIGHTS						COUNTERWEIGHT CONFIGURATION					
BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD		BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD	
+102	50	12	81.9	57.1	264,900	+106	80	50	55.5	73.1	45,300
	50	13	80.7	57.0	244,000		80	60	46.2	64.7	35,000
	50	14	79.6	56.8	226,200		80	70	34.9	52.6	28,100
	50	15	78.4	56.5	210,700		80	80	18.4	31.9	23,100
	50	16	77.2	56.3	197,200		90	19	81.0	96.5	164,000
	50	17	76.0	56.0	185,200		90	20	80.4	96.3	155,400
	50	18	74.8	55.7	174,600		90	25	77.1	95.3	122,900
	50	19	73.6	55.4	165,100		90	30	73.8	93.9	97,200
	50	20	72.4	55.1	156,500		90	35	70.5	92.2	76,400
	50	25	66.2	53.1	123,900		90	40	67.0	90.2	62,500
+103	50	30	59.7	50.4	96,800		90	45	63.5	87.8	52,700
	50	35	52.7	46.8	76,200		90	50	59.8	85.0	45,300
	50	40	44.9	42.2	62,400		90	60	52.1	78.0	35,000
	50	45	35.8	36.0	52,600		90	70	43.4	68.7	28,200
	50	50	23.7	26.8	45,200		90	80	32.8	55.6	23,200
	60	14	81.3	66.9	226,000		90	90	17.3	33.4	19,400
	60	15	80.3	66.8	210,400		100	20	81.3	106.5	155,000
	60	16	79.4	66.6	196,900		100	25	78.4	105.5	122,500
	60	17	78.4	66.3	184,900		100	30	75.5	104.3	97,200
	60	18	77.4	66.1	174,400		100	35	72.5	102.8	76,300
+104	60	19	76.4	65.8	164,800		100	40	69.4	101.0	62,400
	60	20	75.4	65.6	156,300		100	45	66.3	98.9	52,600
	60	25	70.4	63.9	123,700		100	50	63.1	96.5	45,200
	60	30	65.2	61.8	97,100		100	60	56.5	90.5	34,800
	60	35	59.8	59.0	76,400		100	70	49.2	82.7	28,000
	60	40	54.0	55.6	62,500		100	80	41.0	72.5	23,000
	60	45	47.7	51.4	52,800		100	90	31.1	58.4	19,300
	60	50	40.7	46.0	45,400		100	100	16.4	34.8	16,300
	60	60	21.5	28.6	35,000		110	22	81.1	116.3	140,000
	70	16	80.9	76.7	196,700		110	25	79.5	115.7	122,200
+105	70	17	80.1	76.6	184,700		110	30	76.8	114.6	97,000
	70	18	79.2	76.3	174,200		110	35	74.1	113.3	76,200
	70	19	78.4	76.1	164,600		110	40	71.4	111.7	62,200
	70	20	77.6	75.9	156,000		110	45	68.6	109.8	52,400
	70	25	73.3	74.5	123,500		110	50	65.8	107.6	45,000
	70	30	69.0	72.7	97,200		110	60	59.9	102.3	34,600
	70	35	64.5	70.4	76,400		110	70	53.6	95.6	27,800
	70	40	59.8	67.7	62,600		110	80	46.7	87.1	22,800
	70	45	54.9	64.4	52,800		110	90	39.0	76.0	19,100
	70	50	49.6	60.3	45,400		110	100	29.6	61.0	16,200
+106	70	60	37.5	49.4	35,100		110	110	15.6	36.2	13,800
	70	70	19.8	30.3	28,200		120	24	80.9	126.1	127,200
	80	17	81.3	86.7	184,300		120	25	80.4	125.9	121,700
	80	18	80.6	86.5	173,800		120	30	77.9	124.9	97,000
	80	19	79.9	86.3	164,300		120	35	75.5	123.7	76,100
	80	20	79.1	86.1	155,700		120	40	73.0	122.2	62,100
	80	25	75.5	84.9	123,200		120	45	70.5	120.5	52,300
	80	30	71.7	83.4	97,200		120	50	67.9	118.5	44,800
	80	35	67.9	81.4	76,400		120	60	62.6	113.8	34,300
	80	40	63.9	79.1	62,500		120	70	57.1	107.8	27,600
+107	80	45	59.8	76.3	52,800		130	25	81.1	136.1	121,300
	90	19	81.0	96.5	164,000		130	30	78.9	135.1	96,700
	90	20	80.4	96.3	155,400		130	35	76.6	134.0	75,800
	90	25	77.1	95.3	122,900		130	40	74.3	132.7	61,800
	90	30	73.8	93.9	97,200		130	45	72.0	131.1	52,000
	90	35	70.5	92.2	76,400		130	50	69.7	129.3	44,600
	90	40	67.0	90.2	62,500		130	60	64.9	125.0	34,100
	90	45	63.5	87.8	52,700		130	70	59.9	119.6	27,400
	90	50	59.8	85.0	45,300		130	80	54.6	113.1	22,400
	90	60	52.1	78.0	35,000		130	90	49.0	105.1	18,700
+108	90	70	43.4	68.7	28,200		130	100	42.8	95.2	15,800
	90	80	32.8	55.6	23,200		130	110	35.7	82.7	13,500
	90	90	17.3	33.4	19,400		130	120	27.1	65.9	11,600
	100	20	81.3	106.5	155,000		130	130	14.3	38.7	10,000
	100	25	78.4	105.5	122,500		140	27	80.9	145.9	111,500
	100	30	75.5	104.3	97,200		140	30	79.7	145.3	96,700
	100	35	72.5	102.8	76,300		140	35	77.6	144.3	75,700
	100	40	69.4	101.0	62,400		140	40	75.5	143.0	61,700
	100	45	66.3	98.9	52,600		140	45	73.4	141.6	51,900
	100	50	63.1	96.5	45,200		140	50	71.2	139.9	44,400
+109	100	60	56.5	90.5	34,800		140	60	66.8	136.0	33,900
	100	70	49.2	82.7	28,000		140	70	62.3	131.1	27,100
	100	80	41.0	72.5	23,000		140	80	57.5	125.2	22,200
	100	90	31.1	58.4	19,300		140	90	52.5	118.1	18,400
	100	100	16.4	34.8	16,300		140	100	47.1	109.4	15,500
	110	22	81.1	116.3	140,000		140	110	41.1	98.9	13,200
	110	25	79.5	115.7	122,200		140	120	34.3	85.8	11,300
	110	30	76.8	114.6	97,000		140	130	26.1	68.2	9,700
	110	35	74.1	113.3	76,200		140	140	13.7	39.8	8,300
	110	40	71.4	111.7	62,200		150	28	81.2	155.8	106,800
+110	110	45	68.6	109.8	52,400		150	30	80.4	155.5	96,500
	110	50	65.8	107.6	45,000		150	35	78.4	154.5	75,500
	110	60	59.9	102.3	34,600		150	40	76.5	153.4	61,400
	110	70	53.6	95.6	27,800		150	45	74.5	152.0	51,600
	110	80	46.7	87.1	22,800		150	50	72.5	150.5	44,100
	110	90	39.0	76.0	19,100		150	60	68.4	146.9	33,600
	110	100	29.6	61.0	16,200		150	70	64.3	142.4	26,900
	110	110	15.6	36.2	13,800		150	80	59.9	137.0	21,900
	120	24	80.9	126.1	127,200		150	90	55.4	130.5	18,200
	120	25	80.4	125.9	121,700		150	100	50.5	122.8	15,300
+111	120	30	77.9	124.9	97,000		150	110	45.4	113.7	12,900
	120	35	75.5	123.7	76,100		150	120	39.6	102.6	11,000
	120	40	73.0	122.2	62,100		150	130	33.1	88.8	9,400
	120	45	70.5	120.5	52,300		150	140	25.2	70.5	8,100
	120	50	67.9	118.5	44,800		150	150	13.3	41.0	6,900
	120	60	62.6	113.8	34,300						
	120	70	57.1	107.8	27,600						

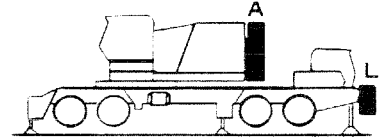
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BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD	BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD	BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
160	30	81.0	165.6	96,400	180	140	41.2	125.4	7,300	210	60	74.8	210.1	32,100
160	35	79.2	164.7	75,400	180	150	36.0	112.7	6,100	210	70	71.9	207.1	25,300
160	40	77.3	163.6	61,300	180	160	30.1	97.1	5,100	210	80	69.0	203.5	20,300
160	45	75.5	162.4	51,500	180	170	22.9	76.7	4,200	210	90	66.1	199.3	16,500
160	50	73.6	161.0	43,900	180	180	12.1	44.2	3,500	210	100	63.0	194.4	13,500
160	60	69.8	157.6	33,400	190	34	81.2	195.4	78,300	210	110	59.9	188.9	11,200
160	70	66.0	153.4	26,600	190	35	80.9	195.2	74,700	210	120	56.7	182.7	9,300
160	80	62.0	148.5	21,600	190	40	79.4	194.3	60,500	210	130	53.4	175.6	7,700
160	90	57.8	142.6	17,900	190	45	77.8	193.3	50,700	210	140	49.9	167.6	6,300
160	100	53.4	135.6	15,000	190	50	76.3	192.1	43,200	210	150	46.2	158.5	5,100
160	110	48.8	127.4	12,600	190	60	73.1	189.3	32,600	210	160	42.2	148.1	4,100
160	120	43.8	117.7	10,700	190	70	70.0	185.9	25,900	210	170	38.0	136.1	3,300
160	130	38.3	106.1	9,100	190	80	66.7	181.8	20,800	210	180	33.3	121.9	2,500
160	140	32.0	91.6	7,800	190	90	63.4	177.1	17,100	220	39	81.1	225.0	56,800
160	150	24.3	72.6	6,600	190	100	59.9	171.6	14,200	220	40	80.8	224.8	56,600
160	160	12.8	42.1	5,600	190	110	56.4	165.3	11,800	220	45	79.5	223.9	50,000
170	31	81.2	175.6	91,000	190	120	52.6	158.1	9,900	220	50	78.2	222.9	42,400
170	35	79.8	174.9	75,100	190	130	48.7	149.8	8,300	220	60	75.5	220.5	31,700
170	40	78.1	173.9	61,000	190	140	44.5	140.2	7,000	220	70	72.8	217.6	25,000
170	45	76.4	172.7	51,200	190	150	40.0	129.1	5,800	220	80	70.0	214.2	19,900
170	50	74.6	171.4	43,600	190	160	35.0	115.9	4,800	220	90	67.2	210.2	16,100
170	60	71.1	168.2	33,100	190	170	29.3	99.7	3,900	220	100	64.4	205.6	13,100
170	70	67.5	164.4	26,400	190	180	22.3	78.7	3,200	220	110	61.4	200.4	10,800
170	80	63.8	159.7	21,400	190	190	11.7	45.2	2,500	220	120	58.4	194.6	8,900
170	90	59.9	154.3	17,600	200	36	81.1	205.2	71,200	220	130	55.3	188.0	7,300
170	100	55.9	147.9	14,700	200	40	79.9	204.5	60,200	220	140	52.0	180.5	5,900
170	110	51.7	140.5	12,400	200	45	78.4	203.5	50,400	220	150	48.6	172.1	4,700
170	120	47.3	131.8	10,500	200	50	77.0	202.4	42,800	220	160	45.1	162.6	3,700
170	130	42.4	121.6	8,900	200	60	74.0	199.7	32,200	220	170	41.2	151.9	2,800
170	140	37.1	109.4	7,600	200	70	71.0	196.5	25,400	220	180	37.1	139.4	2,100
170	150	31.0	94.4	6,400	200	80	67.9	192.7	20,400	230	41	81.0	234.3	50,700
170	160	23.6	74.7	5,400	200	90	64.8	188.2	16,600	230	45	80.0	234.1	49,800
170	170	12.4	43.1	4,500	200	100	61.6	183.1	13,600	230	50	78.7	233.1	42,100
180	33	81.0	185.4	82,400	200	110	58.3	177.2	11,300	230	60	76.1	230.8	31,500
180	35	80.4	185.1	75,000	200	120	54.8	170.5	9,400	230	70	73.6	228.1	24,700
180	40	78.8	184.1	60,800	200	130	51.2	162.9	7,800	230	80	70.9	224.8	19,700
180	45	77.1	183.0	51,000	200	140	47.4	154.2	6,400	230	90	68.3	221.0	15,900
180	50	75.5	181.8	43,400	200	150	43.4	144.2	5,200	230	100	65.6	216.7	12,900
180	60	72.2	178.8	32,900	200	160	39.0	132.6	4,200	230	110	62.8	211.8	10,500
180	70	68.8	175.2	26,100	200	170	34.1	118.9	3,400	230	120	59.9	206.3	8,600
180	80	65.3	170.9	21,100	200	180	28.5	102.3	2,600	230	130	57.0	200.0	7,000
180	90	61.8	165.8	17,400	SEE NOTE 6! - FOR MACHINE ON OUTRIGGERS					230	140	54.0	193.1	5,600
180	100	58.1	159.9	14,400	210	37	81.2	215.2	67,500	230	150	50.8	185.3	4,500
180	110	54.2	153.1	12,100	210	40	80.4	214.7	60,100	230	160	47.5	176.6	3,500
180	120	50.2	145.2	10,200	210	45	79.0	213.7	50,300	230	170	44.0	166.7	2,600
180	130	45.8	136.1	8,600	210	50	77.6	212.7	42,700					

DEDUCTION FROM RATED BOOM LOADS WHEN LIFTING OVER
BOOM POINT WITH 68A AUXILIARY SHEAVE POINT ATTACHED

Boom Length in ft.	50 - 280
Deduct in lbs. No Hook on Aux. Sheave Point	600
Deduct in lbs. with Max. 1,200 lbs. Hook and Ball on Aux. Sheave Point	2,000

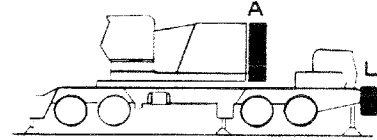
**A.I.S.C. Certified Erector****PCI P.C.I. Qualified Erector**

L. R. WILLSON & SONS, INC.

773 ANNAPOLIS ROAD • PO BOX 227

GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

**68A BOOM – ON OUTRIGGERS 360°
85% STABILITY****CAPACITY IN POUNDS
WITH A + L COUNTERWEIGHTS****COUNTERWEIGHT CONFIGURATION**

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD	BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD	BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
50	12	81.9	57.1	264,900	80	50	55.5	73.1	35,700	120	80	51.1	100.4	16,900
50	13	80.7	57.0	244,000	80	60	46.2	64.7	27,200	120	90	44.6	91.2	13,900
50	14	79.6	56.8	226,200	80	70	34.9	52.6	21,500	120	100	37.2	79.4	11,500
50	15	78.4	56.5	210,700	80	80	18.4	31.9	17,400	120	110	28.3	63.5	9,600
50	16	77.2	56.3	197,200	90	19	81.0	96.5	164,000	120	120	14.9	37.4	8,000
50	17	76.0	56.0	185,200	90	20	80.4	96.3	155,400	130	25	81.1	136.1	110,100
50	18	74.8	55.7	174,600	90	25	77.1	95.3	110,100	130	30	78.9	135.1	79,300
50	19	73.6	55.4	165,100	90	30	73.8	93.9	79,600	130	35	76.6	134.0	61,200
50	20	72.4	55.1	156,500	90	35	70.5	92.2	61,700	130	40	74.3	132.7	49,600
50	25	66.2	53.1	109,200	90	40	67.0	90.2	50,100	130	45	72.0	131.1	41,200
50	30	59.7	50.4	79,100	90	45	63.5	87.8	41,900	130	50	69.7	129.3	35,000
50	35	52.7	46.8	61,400	90	50	59.8	85.0	35,700	130	60	64.9	125.0	26,500
50	40	44.9	42.2	49,900	90	60	52.1	78.0	27,300	130	70	59.9	119.6	20,800
50	45	35.8	36.0	41,700	90	70	43.4	68.7	21,600	130	80	54.6	113.1	16,800
50	50	23.7	26.8	35,500	90	80	32.8	55.6	17,500	130	90	49.0	105.1	13,700
60	14	81.3	66.9	226,000	90	90	17.3	33.4	14,400	130	100	42.8	95.2	11,400
60	15	80.3	66.8	210,400	100	20	81.3	106.5	155,000	130	110	35.7	82.7	9,500
60	16	79.4	66.6	196,900	100	25	78.4	105.5	110,300	130	120	27.1	65.9	7,900
60	17	78.4	66.3	184,300	100	30	75.5	104.3	79,700	130	130	14.3	38.7	6,600
60	18	77.4	66.1	174,400	100	35	72.5	102.8	61,700	140	27	80.9	145.9	95,500
60	19	76.4	65.8	164,800	100	40	69.4	101.0	50,100	140	30	79.7	145.3	79,300
60	20	75.4	65.6	156,300	100	45	66.3	98.9	41,700	140	35	77.6	144.3	61,200
60	25	70.4	63.9	109,700	100	50	63.1	96.5	35,500	140	40	75.5	143.0	49,500
60	30	65.2	61.8	79,400	100	60	56.5	90.5	27,100	140	45	73.4	141.6	41,100
60	35	59.8	59.0	61,500	100	70	49.2	82.7	21,400	140	50	71.2	139.9	34,800
60	40	54.0	55.6	50,100	100	80	41.0	72.5	17,300	140	60	66.8	136.0	26,300
60	45	47.7	51.4	41,800	100	90	31.1	58.4	14,300	140	70	62.3	131.1	20,600
60	50	40.7	46.0	35,700	100	100	16.4	34.8	11,900	140	80	57.5	125.2	16,500
60	60	21.5	28.6	27,200	110	22	81.1	116.3	140,000	140	90	52.5	118.1	13,500
70	16	80.9	76.7	196,700	110	25	79.5	115.7	110,300	140	100	47.1	109.4	11,100
70	17	80.1	76.6	184,700	110	30	76.8	114.6	79,600	140	110	41.1	98.9	9,200
70	18	79.2	76.3	174,200	110	35	74.1	113.3	61,500	140	120	34.3	85.8	7,600
70	19	78.4	76.1	164,600	110	40	71.4	111.7	49,900	140	130	26.1	68.2	6,300
70	20	77.6	75.9	156,000	110	45	68.6	109.8	41,600	140	140	13.7	39.8	5,200
70	25	73.3	74.5	109,900	110	50	65.8	107.6	35,400	150	28	81.2	155.8	89,200
70	30	69.0	72.7	79,500	110	60	59.9	102.3	26,900	150	30	80.4	155.5	79,200
70	35	64.5	70.4	61,700	110	70	53.6	95.6	21,200	150	35	78.4	154.5	61,000
70	40	59.8	67.7	50,200	110	80	46.7	87.1	17,200	150	40	76.5	153.4	49,300
70	45	54.9	64.4	41,900	110	90	39.0	76.0	14,100	150	45	74.5	152.0	40,800
70	50	49.6	60.3	35,800	110	100	29.6	61.0	11,800	150	50	72.5	150.5	34,600
70	60	37.5	49.4	27,300	110	110	15.6	36.2	9,800	150	60	68.4	146.9	26,100
70	70	19.8	30.3	21,600	120	24	80.9	126.1	119,300	150	70	64.3	142.4	20,400
80	17	81.3	86.7	184,300	120	25	80.4	125.9	110,400	150	80	59.9	137.0	16,300
80	18	80.6	86.5	173,800	120	30	77.9	124.9	79,600	150	90	55.4	130.5	13,200
80	19	79.9	86.3	164,300	120	35	75.5	123.7	61,500	150	100	50.5	122.8	10,800
80	20	79.1	86.1	155,700	120	40	73.0	122.2	49,800	150	110	45.4	113.7	8,900
80	25	75.5	84.9	110,100	120	45	70.5	120.5	41,400	150	120	39.6	102.6	7,400
80	30	71.7	83.4	79,600	120	50	67.9	118.5	35,200	150	130	33.1	88.8	6,100
80	35	67.9	81.4	61,800	120	60	62.6	113.8	26,700	150	140	25.2	70.5	5,000
80	40	63.9	79.1	50,200	120	70	57.1	107.8	21,000	150	150	13.3	41.0	4,000
80	45	59.8	76.3	41,900										

**A.I.S.C. Certified Erector****PCI P.C.I. Qualified Erector**

L. R. WILLSON & SONS, INC.

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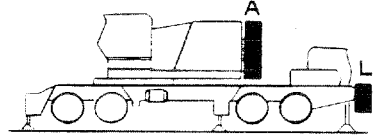
GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

**68A BOOM – ON OUTRIGGERS 360°
85% STABILITY****CAPACITY IN POUNDS
WITH A + L COUNTERWEIGHTS**

	BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
+113	160	30	81.0	165.6	79,200
	160	35	79.2	164.7	60,900
	160	40	77.3	163.6	49,100
	160	45	75.5	162.4	40,700
	160	50	73.6	161.0	34,400
	160	60	69.8	157.6	25,900
	160	70	66.0	153.4	20,100
	160	80	62.0	148.5	16,000
	160	90	57.8	142.6	12,900
	160	100	53.4	135.6	10,500
	160	110	48.8	127.4	8,600
	160	120	43.8	117.7	7,100

	BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
	160	130	38.3	106.1	5,800
	160	140	32.0	91.6	4,700
	160	150	24.3	72.6	3,800
	160	160	12.8	42.1	2,900
	170	31	81.2	175.6	74,400
	170	35	79.8	174.9	60,500
	170	40	78.1	173.9	48,800
	170	45	76.4	172.7	40,400
	170	50	74.6	171.4	34,100
	170	60	71.1	168.2	25,600

**COUNTERWEIGHT CONFIGURATION**

	BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
+114	170	70	67.5	164.4	19,900
	170	80	63.8	159.7	15,800
	170	90	59.9	154.3	12,700
	170	100	55.9	147.9	10,300
	170	110	51.7	140.5	8,400
	170	120	47.3	131.8	6,900
	170	130	42.4	121.6	5,600
	170	140	37.1	109.4	4,500
	170	150	31.0	94.4	3,500
	170	160	23.6	74.7	2,700
	170	170	12.4	43.1	2,000

**DEDUCTION FROM RATED BOOM LOADS WHEN LIFTING OVER
BOOM POINT WITH 68A AUXILIARY SHEAVE POINT ATTACHED**

Boom Length in ft.	50 - 280
Deduct in lbs. No Hook on Aux. Sheave Point	600
Deduct in lbs. with Max. 1,200 lbs. Hook and Ball on Aux. Sheave Point	2,000

**A.I.S.C. Certified Erector****PCI P.C.I. Qualified Erector**

L. R. WILLSON & SONS, INC.

773 ANNAPOLIS ROAD • PO BOX 227

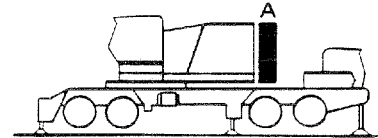
GAMBRILLS, MARYLAND 21054

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**68A BOOM — ON OUTRIGGERS OVER REAR
85% STABILITY****CAPACITY IN POUNDS
WITH A COUNTERWEIGHT**

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
50	12	81.9	57.1	264,900
50	13	80.7	57.0	244,000
50	14	79.6	56.8	226,200
50	15	78.4	56.5	210,700
50	16	77.2	56.3	197,200
50	17	76.0	56.0	185,200
50	18	74.8	55.7	174,600
50	19	73.6	55.4	165,100
50	20	72.4	55.1	156,500
50	25	66.2	53.1	105,700
50	30	59.7	50.4	77,600
50	35	52.7	46.8	60,800
50	40	44.9	42.2	49,600
50	45	35.8	36.0	41,600
50	50	23.7	26.8	35,600
60	14	81.3	66.3	226,000
60	15	80.3	66.8	210,400
60	16	79.4	66.6	196,900
60	17	78.4	66.3	184,900
60	18	77.4	66.1	174,400
60	19	76.4	65.8	164,900
60	20	75.4	65.6	156,300
60	25	70.4	63.9	106,100
60	30	65.2	61.8	77,800
60	35	59.8	59.0	60,900
60	40	54.0	55.6	49,800
60	45	47.7	51.4	41,800
60	50	40.7	46.0	35,800
60	60	21.5	28.6	27,300
70	16	80.9	76.7	196,700
70	17	80.1	76.6	184,700
70	18	79.2	76.3	174,200
70	19	78.4	76.1	164,600
70	20	77.6	75.9	156,000
70	25	73.3	74.5	106,300
70	30	69.0	72.7	78,000
70	35	64.5	70.4	61,000
70	40	59.8	67.7	49,900
70	45	54.9	64.4	41,900
70	50	49.6	60.3	35,900
70	60	37.5	49.4	27,500
70	70	19.8	30.3	21,800
80	17	81.3	86.7	184,300
80	18	80.6	86.5	173,800
80	19	79.9	86.3	164,300
80	20	79.1	86.1	155,700
80	25	75.5	84.9	106,400
80	30	71.7	83.4	78,000
80	35	67.9	81.4	61,000
80	40	63.9	79.1	49,800
80	45	59.8	76.3	41,800

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
80	50	55.5	73.1	35,700
80	60	46.2	64.7	27,400
80	70	34.9	52.6	21,700
80	80	18.4	31.9	17,600
90	19	81.0	96.5	164,000
90	20	80.4	96.3	155,400
90	25	77.1	95.3	106,400
90	30	73.8	93.9	78,000
90	35	70.5	92.2	61,000
90	40	67.0	90.2	49,800
90	45	63.5	87.8	41,800
90	50	59.8	85.0	35,700
90	60	52.1	78.0	27,400
90	70	43.4	68.7	21,800
90	80	32.8	55.6	17,700
90	90	17.3	33.4	14,700
100	20	81.3	106.5	155,000
100	25	78.4	105.5	106,500
100	30	75.5	104.3	78,000
100	35	72.5	102.8	60,900
100	40	69.4	101.0	49,700
100	45	66.3	98.9	41,600
100	50	63.1	96.5	35,600
100	60	56.5	90.5	27,200
100	70	49.2	82.7	21,600
100	80	41.0	72.5	17,500
100	90	31.1	58.4	14,500
100	100	16.4	34.8	12,100
110	22	81.1	116.3	135,300
110	25	79.5	115.7	106,500
110	30	76.8	114.6	77,900
110	35	74.1	113.3	60,800
110	40	71.4	111.7	49,600
110	45	68.6	109.8	41,500
110	50	65.8	107.6	35,400
110	60	59.9	102.3	27,100
110	70	53.6	95.6	21,400
110	80	46.7	87.1	17,400
110	90	39.0	76.0	14,300
110	100	29.6	61.0	12,000
110	110	15.6	36.2	10,000
120	24	80.9	126.1	114,800
120	25	80.4	125.9	106,500
120	30	77.9	124.9	77,900
120	35	75.5	123.7	60,700
120	40	73.0	122.2	49,400
120	45	70.5	120.5	41,300
120	50	67.9	118.5	35,200
120	60	62.6	113.8	26,900
120	70	57.1	107.8	21,200

**COUNTERWEIGHT CONFIGURATION**

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
120	80	51.1	100.4	17,100
120	90	44.6	91.2	14,100
120	100	37.2	79.4	11,700
120	110	28.3	63.5	9,800
120	120	14.9	37.4	8,200
130	25	81.1	136.1	106,300
130	30	78.9	135.1	77,600
130	35	76.6	134.0	60,400
130	40	74.3	132.7	49,200
130	45	72.0	131.1	41,100
130	50	69.7	129.3	35,000
130	60	64.9	125.0	26,700
130	70	59.9	119.6	21,000
130	80	54.6	113.1	17,000
130	90	49.0	105.1	13,900
130	100	42.8	95.2	11,500
130	110	35.7	82.7	9,700
130	120	27.1	65.9	8,100
130	130	14.3	38.7	6,800
140	27	80.9	145.9	92,700
140	30	79.7	145.3	77,600
140	35	77.6	144.3	60,300
140	40	75.5	143.0	49,100
140	45	73.1	141.6	40,900
140	50	71.2	139.9	34,800
140	60	66.8	136.0	26,500
140	70	62.3	131.1	20,800
140	80	57.5	125.2	16,700
140	90	52.5	118.1	13,600
140	100	47.1	109.4	11,300
140	110	41.1	98.9	9,400
140	120	34.3	85.8	7,800
140	130	26.1	68.2	6,500
140	140	13.7	39.8	5,400
150	28	81.2	155.8	87,100
150	30	80.4	155.5	77,400
150	35	78.4	154.5	60,100
150	40	76.5	153.4	48,900
150	45	74.5	152.0	40,700
150	50	72.5	150.5	34,500
150	60	68.4	146.9	26,200
150	70	64.3	142.4	20,500
150	80	59.9	137.0	16,400
150	90	55.4	130.5	13,400
150	100	50.5	122.8	11,000
150	110	45.4	113.7	9,100
150	120	39.6	102.6	7,600
150	130	33.1	88.8	6,300
150	140	25.2	70.5	5,200
150	150	13.3	41.0	4,200

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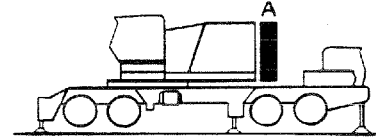
GAMBRILLS, MARYLAND 21054

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**68A BOOM – ON OUTRIGGERS OVER REAR
85% STABILITY****CAPACITY IN POUNDS
WITH A COUNTERWEIGHT**

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
160	30	81.0	165.6	77,400
160	35	79.2	164.7	60,000
160	40	77.3	163.6	48,700
160	45	75.5	162.4	40,500
160	50	73.6	161.0	34,300
160	60	69.8	157.6	26,000
160	70	66.0	153.4	20,300
160	80	62.0	148.5	16,200
160	90	57.8	142.6	13,100
160	100	53.4	135.6	10,700
160	110	48.8	127.4	8,800
160	120	43.8	117.7	7,300
160	130	38.3	106.1	6,000
160	140	32.0	91.6	4,900
160	150	24.3	72.6	3,900
160	160	12.8	42.1	3,100

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
170	31	81.2	175.6	72,900
170	35	79.8	174.9	59,700
170	40	78.1	173.9	48,400
170	45	76.4	172.7	40,200
170	50	74.6	171.4	34,000
170	60	71.1	168.2	25,700
170	70	67.5	164.4	20,000
170	80	63.8	159.7	15,900
170	90	59.9	154.3	12,900
170	100	55.9	147.9	10,500
170	110	51.7	140.5	8,600
170	120	47.3	131.8	7,000
170	130	42.4	121.6	5,700
170	140	37.1	109.4	4,600
170	150	31.0	94.4	3,700
170	160	23.6	74.7	2,900
170	170	12.4	43.1	2,200

**COUNTERWEIGHT CONFIGURATION**

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
180	33	81.0	185.4	65,600
180	35	80.4	185.1	59,600
180	40	78.8	184.1	48,300
180	45	77.1	183.0	40,000
180	50	75.5	181.8	33,800
180	60	72.2	178.8	25,500
180	70	68.8	175.2	19,800
180	80	65.3	170.9	15,700
180	90	61.8	165.8	12,600
180	100	58.1	159.9	10,200
180	110	54.2	153.1	8,300
180	120	50.2	145.2	6,700
180	130	45.8	136.1	5,400
180	140	41.2	125.4	4,300
180	150	36.0	112.7	3,400
180	160	30.1	97.1	2,600

**DEDUCTION FROM RATED BOOM LOADS WHEN LIFTING OVER
BOOM POINT WITH 68A AUXILIARY SHEAVE POINT ATTACHED**

Boom Length in ft.	50 - 280
Deduct in lbs. No Hook on Aux. Sheave Point	600
Deduct in lbs. with Max. 1,200 lbs. Hook and Ball on Aux. Sheave Point	2,000

**A.I.S.C. Certified Erector****PCI P.C.I. Qualified Erector**

L. R. WILLSON & SONS, INC.

773 ANNAPOLIS ROAD • PO BOX 227

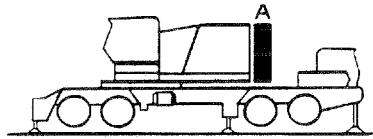
GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

**68A BOOM — ON OUTRIGGERS 360°
85% STABILITY****CAPACITY IN POUNDS
WITH A COUNTERWEIGHT**

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
50	12	81.9	57.1	264,900
50	13	80.7	57.0	244,000
50	14	79.6	56.8	226,200
50	15	78.4	56.5	210,700
50	16	77.2	56.3	197,200
50	17	76.0	56.0	185,200
50	18	74.8	55.7	174,600
50	19	73.6	55.4	165,100
50	20	72.4	55.1	156,500
50	25	66.2	53.1	101,200
50	30	59.7	50.4	73,200
50	35	52.7	46.8	56,800
50	40	44.9	42.2	46,000
50	45	35.8	36.0	38,400
50	50	23.7	26.8	32,600
60	14	81.3	66.9	226,000
60	15	80.3	66.8	210,400
60	16	79.4	66.6	196,900
60	17	78.4	66.3	184,900
60	18	77.4	66.1	174,400
60	19	76.4	65.8	164,800
60	20	75.4	65.6	156,300
60	25	70.4	63.9	101,700
60	30	65.2	61.8	73,500
60	35	59.8	59.0	57,000
60	40	54.0	55.6	46,200
60	45	47.7	51.4	38,500
60	50	40.7	46.0	32,800
60	60	21.5	28.6	24,900
70	16	80.9	76.7	196,700
70	17	80.1	76.6	184,700
70	18	79.2	76.3	174,200
70	19	78.4	76.1	164,600
70	20	77.6	75.9	156,000
70	25	73.3	74.5	101,900
70	30	69.0	72.7	73,600
70	35	64.5	70.4	57,200
70	40	59.8	67.7	46,300
70	45	54.9	64.4	38,600
70	50	49.6	60.3	32,900
70	60	37.5	49.4	25,000
70	70	19.8	30.3	19,700
80	17	81.3	86.7	184,300
80	18	80.6	86.5	173,800
80	19	79.9	86.3	164,300
80	20	79.1	86.1	155,700
80	25	75.5	84.9	102,100
80	30	71.7	83.4	73,700
80	35	67.9	81.4	57,200
80	40	63.9	79.1	46,300
80	45	59.8	76.3	38,600

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
80	50	55.5	73.1	32,800
80	60	46.2	64.7	25,000
80	70	34.9	52.6	19,600
80	80	18.4	31.9	15,800
90	19	81.0	96.5	164,000
90	20	80.4	96.3	155,400
90	25	77.1	95.3	102,100
90	30	73.8	93.9	73,700
90	35	70.5	92.2	57,200
90	40	67.0	90.2	46,300
90	45	63.5	87.8	38,600
90	50	59.8	85.0	32,800
90	60	52.1	78.0	25,000
90	70	43.4	68.7	19,700
90	80	32.8	55.6	15,900
90	90	17.3	33.4	13,000
100	20	81.3	106.5	155,000
100	25	78.4	105.5	102,300
100	30	75.5	104.3	73,800
100	35	72.5	102.8	57,200
100	40	69.4	101.0	46,200
100	45	66.3	98.9	38,400
100	50	63.1	96.5	32,700
100	60	56.5	90.5	24,800
100	70	49.2	82.7	19,500
100	80	41.0	72.5	15,700
100	90	31.1	58.4	12,900
100	100	16.4	34.8	10,600
110	22	81.1	116.3	131,900
110	25	79.5	115.7	102,200
110	30	76.8	114.6	73,700
110	35	74.1	113.3	57,000
110	40	71.4	111.7	46,000
110	45	68.6	109.8	38,300
110	50	65.8	107.6	32,500
110	60	59.9	102.3	24,600
110	70	53.6	95.6	19,300
110	80	46.7	87.1	15,500
110	90	39.0	76.0	12,700
110	100	29.6	61.0	10,500
110	110	15.6	36.2	8,700
120	24	80.9	126.1	110,800
120	25	80.4	125.9	102,400
120	30	77.9	124.9	73,700
120	35	75.5	123.7	57,000
120	40	73.0	122.2	45,900
120	45	70.5	120.5	38,100
120	50	67.9	118.5	32,300
120	60	62.6	113.8	24,400
120	70	57.1	107.8	19,100

**COUNTERWEIGHT CONFIGURATION**

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
120	80	51.1	100.4	15,300
120	90	44.6	91.2	12,500
120	100	37.2	79.4	10,200
120	110	28.3	63.5	8,500
120	120	14.9	37.4	7,000
130	25	81.1	136.1	102,100
130	30	78.9	135.1	73,400
130	35	76.6	134.0	56,800
130	40	74.3	132.7	45,700
130	45	72.0	131.1	37,900
130	50	69.7	129.3	32,100
130	60	64.9	125.0	24,300
130	70	59.9	119.6	18,900
130	80	54.6	113.1	15,100
130	90	49.0	105.1	12,300
130	100	42.8	95.2	10,100
130	110	35.7	82.7	8,300
130	120	27.1	65.9	6,900
130	130	14.3	38.7	5,700
140	27	80.9	145.9	88,500
140	30	79.7	145.3	73,400
140	35	77.6	144.3	56,700
140	40	75.5	143.0	45,600
140	45	73.4	141.6	37,300
140	50	71.2	139.9	31,900
140	60	66.8	136.0	24,000
140	70	62.3	131.1	18,700
140	80	57.5	125.2	14,500
140	90	52.5	118.1	12,000
140	100	47.1	109.4	9,800
140	110	41.1	98.9	8,100
140	120	34.3	85.8	6,600
140	130	26.1	68.2	5,400
140	140	13.7	39.8	4,400
150	28	81.2	155.8	82,900
150	30	80.4	155.5	73,300
150	35	78.4	154.5	56,500
150	40	76.5	153.4	45,400
150	45	74.5	152.0	37,500
150	50	72.5	150.5	31,700
150	60	68.4	146.9	23,800
150	70	64.3	142.4	18,400
150	80	59.9	137.0	14,600
150	90	55.4	130.5	11,800
150	100	50.5	122.8	9,600
150	110	45.4	113.7	7,800
150	120	39.6	102.6	6,400
150	130	33.1	88.8	5,200
150	140	25.2	70.5	4,100
150	150	13.3	41.0	3,200

**A.I.S.C. Certified Erector****PCI P.C.I. Qualified Erector**

L. R. WILLSON & SONS, INC.

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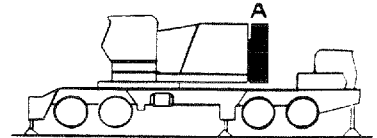
GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

**68A BOOM – ON OUTRIGGERS 360°
85% STABILITY****CAPACITY IN POUNDS
WITH A COUNTERWEIGHT**

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
160	30	81.0	165.6	73,300
160	35	79.2	164.7	56,500
160	40	77.3	163.6	45,300
160	45	75.5	162.4	37,400
160	50	73.6	161.0	31,500
160	60	69.8	157.6	23,600
160	70	66.0	153.4	18,200
160	80	62.0	148.5	14,400
160	90	57.8	142.6	11,500
160	100	53.4	135.6	9,300
160	110	48.8	127.4	7,500
160	120	43.8	117.7	6,100

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
160	130	38.3	106.1	4,800
160	140	32.0	91.6	3,800
160	150	24.3	72.6	2,900
160	160	12.8	42.1	2,200
170	31	81.2	175.6	68,800
170	35	79.8	174.9	56,100
170	40	78.1	173.9	45,000
170	45	76.4	172.7	37,100
170	50	74.6	171.4	31,200
170	60	71.1	168.2	23,300

**COUNTERWEIGHT CONFIGURATION**

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
170	70	67.5	164.4	18,000
170	80	63.8	159.7	14,100
170	90	59.9	154.3	11,300
170	100	55.9	147.9	9,000
170	110	51.7	140.5	7,300
170	120	47.3	131.8	5,800
170	130	42.4	121.6	4,600
170	140	37.1	109.4	3,600
170	150	31.0	94.4	2,700
170	160	23.6	74.7	2,000

**DEDUCTION FROM RATED BOOM LOADS WHEN LIFTING OVER
BOOM POINT WITH 68A AUXILIARY SHEAVE POINT ATTACHED**

Boom Length in ft.	50 - 280
Deduct in lbs. No Hook on Aux. Sheave Point	600
Deduct in lbs. with Max. 1,200 lbs. Hook and Ball on Aux. Sheave Point	2,000

**A.I.S.C. Certified Erector****PCI P.C.I. Qualified Erector**

L. R. WILLSON & SONS, INC.

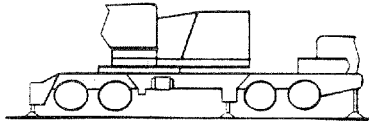
773 ANNAPOLIS ROAD • PO BOX 227

GAMBRILLS, MARYLAND 21054

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**68A BOOM – ON OUTRIGGERS OVER REAR
85% STABILITY**


CAPACITY IN POUNDS
WITH NO COUNTERWEIGHTS



COUNTERWEIGHT CONFIGURATION

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
50	12	81.9	57.1	244,400
50	13	80.7	57.0	225,200
50	14	79.6	56.8	208,600
50	15	78.4	56.5	194,400
50	16	77.2	56.3	181,800
50	17	76.0	56.0	170,800
50	18	74.8	55.7	159,400
50	19	73.6	55.4	140,600
50	20	72.4	55.1	125,600
50	25	66.2	53.1	81,300
50	30	59.7	50.4	59,300
50	35	52.7	46.8	46,200
50	40	44.9	42.2	37,500
50	45	35.8	36.0	31,200
50	50	23.7	26.8	26,500
60	14	81.3	66.9	208,400
60	15	80.3	66.8	194,100
60	16	79.4	66.6	181,600
60	17	78.4	66.3	170,600
60	18	77.4	66.1	160,200
60	19	76.4	65.8	141,400
60	20	75.4	65.6	126,300
60	25	70.4	63.9	81,700
60	30	65.2	61.8	59,500
60	35	59.8	59.0	46,400
60	40	54.0	55.6	37,600
60	45	47.7	51.4	31,400
60	50	40.7	46.0	26,700
60	60	21.5	28.6	20,100
70	16	80.9	76.7	181,300
70	17	80.1	76.6	170,400
70	18	79.2	76.3	160,500
70	19	78.4	76.1	141,800
70	20	77.6	75.9	126,600
70	25	73.3	74.5	81,900
70	30	69.0	72.7	59,700
70	35	64.5	70.4	46,500
70	40	59.8	67.7	37,700
70	45	54.9	64.4	31,500
70	50	49.6	60.3	26,800
70	60	37.5	49.4	20,200
70	70	19.8	30.3	15,800
80	17	81.3	86.7	170,000
80	18	80.6	86.5	160,100
80	19	79.9	86.3	142,300
80	20	79.1	86.1	127,000
80	25	75.5	84.9	82,100
80	30	71.7	83.4	59,700
80	35	67.9	81.4	46,500
80	40	63.9	79.1	37,700
80	45	59.8	76.3	31,400

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
80	50	55.5	73.1	26,800
80	60	46.2	64.7	20,100
80	70	34.9	52.6	15,700
80	80	18.4	31.9	12,500
90	19	81.0	96.5	142,300
90	20	80.4	96.3	127,000
90	25	77.1	95.3	82,000
90	30	73.8	93.9	59,700
90	35	70.5	92.2	46,500
90	40	67.0	90.2	37,700
90	45	63.5	87.8	31,400
90	50	59.8	85.0	26,800
90	60	52.1	78.0	20,100
90	70	43.4	68.7	15,700
90	80	32.8	55.6	12,600
90	90	17.3	33.4	10,100
100	20	81.3	106.5	127,400
100	25	78.4	105.5	82,200
100	30	75.5	104.3	59,700
100	35	72.5	102.8	46,500
100	40	69.4	101.0	37,600
100	45	66.3	98.9	31,200
100	50	63.1	96.5	26,600
100	60	56.5	90.5	20,000
100	70	49.2	82.7	15,500
100	80	41.0	72.5	12,400
100	90	31.1	58.4	10,000
100	100	16.4	34.8	8,100
110	22	81.1	116.3	104,700
110	25	79.5	115.7	82,100
110	30	76.8	114.6	59,600
110	35	74.1	113.3	46,300
110	40	71.4	111.7	37,400
110	45	68.6	109.8	31,000
110	50	65.8	107.6	26,500
110	60	59.9	102.3	19,800
110	70	53.6	95.6	15,400
110	80	46.7	87.1	12,200
110	90	39.0	76.0	9,800
110	100	29.6	61.0	7,900
110	110	15.6	36.2	6,400
120	24	80.9	126.1	88,500
120	25	80.4	125.9	82,200
120	30	77.9	124.9	59,600
120	35	75.5	123.7	46,200
120	40	73.0	122.2	37,300
120	45	70.5	120.5	30,900
120	50	67.9	118.5	26,300
120	60	62.6	113.8	19,600

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
120	70	57.1	107.8	15,100
120	80	51.1	100.4	11,900
120	90	44.6	91.2	9,500
120	100	37.2	79.4	7,700
120	110	28.3	63.5	6,200
120	120	14.9	37.4	4,900
130	25	81.1	136.1	82,000
130	30	78.9	135.1	59,300
130	35	76.6	134.0	46,000
130	40	74.3	132.7	37,100
130	45	72.0	131.1	30,700
130	50	69.7	129.3	26,100
130	60	64.9	125.0	19,400
130	70	59.9	119.6	14,900
130	80	54.6	113.1	11,800
130	90	49.0	105.1	9,400
130	100	42.8	95.2	7,500
130	110	35.7	82.7	6,000
130	120	27.1	65.9	4,800
130	130	14.3	38.7	3,800
140	27	80.9	145.9	71,300
140	30	79.7	145.3	59,300
140	35	77.6	144.3	45,900
140	40	75.5	143.0	36,900
140	45	73.4	141.6	30,500
140	50	71.2	139.9	25,900
140	60	66.8	136.0	19,200
140	70	62.3	131.1	14,700
140	80	57.5	125.2	11,500
140	90	52.5	118.1	9,100
140	100	47.1	109.4	7,200
140	110	41.1	98.9	5,700
140	120	34.3	85.8	4,500
140	130	26.1	68.2	3,500
140	140	13.7	39.8	2,600
150	28	81.2	155.8	66,700
150	30	80.4	155.5	59,100
150	35	78.4	154.5	45,700
150	40	76.5	153.4	36,700
150	45	74.5	152.0	30,300
150	50	72.5	150.5	25,700
150	60	68.4	146.9	18,900
150	70	64.3	142.4	14,500
150	80	59.9	137.0	11,300
150	90	55.4	130.5	8,900
150	100	50.5	122.8	7,000
150	110	45.4	113.7	5,500
150	120	39.6	102.6	4,300
150	130	33.1	88.8	3,200
150	140	25.2	70.5	2,400

DEDUCTION FROM RATED BOOM LOADS WHEN LIFTING OVER
BOOM POINT WITH 68A AUXILIARY SHEAVE POINT ATTACHED

Boom Length in ft.	50 - 280
Deduct in lbs. No Hook on Aux. Sheave Point	600
Deduct in lbs. with Max. 1,200 lbs. Hook and Ball on Aux. Sheave Point	2,000



A.I.S.C. Certified Erector



P.C.I. Qualified Erector

L. R. WILLSON & SONS, INC.

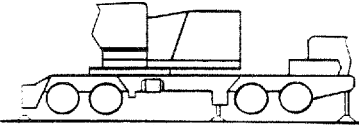
773 ANNAPOLIS ROAD • PO BOX 227

GAMBRILLS, MARYLAND 21054

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**68A BOOM — ON OUTRIGGERS 360°
85% STABILITY****CAPACITY IN POUNDS
WITH NO COUNTERWEIGHTS**

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
50	12	81.9	57.1	244,400
50	13	80.7	57.0	225,200
50	14	79.6	56.8	208,600
50	15	78.4	56.5	194,300
50	16	77.2	56.3	181,800
50	17	76.0	56.0	170,800
50	18	74.8	55.7	154,500
50	19	73.6	55.4	134,600
50	20	72.4	55.1	119,000
50	25	66.2	53.1	74,700
50	30	59.7	50.4	53,600
50	35	52.7	46.8	41,300
50	40	44.9	42.2	33,200
50	45	35.8	36.0	27,500
50	50	23.7	26.8	23,100
60	14	81.3	66.9	208,400
60	15	80.3	66.8	194,100
60	16	79.4	66.5	181,600
60	17	78.4	66.3	170,600
60	18	77.4	66.1	155,600
60	19	76.4	65.8	135,500
60	20	75.4	65.6	119,800
60	25	70.4	63.9	75,100
60	30	65.2	61.8	53,900
60	35	59.8	59.0	41,500
60	40	54.0	55.6	33,400
60	45	47.7	51.4	27,700
60	50	40.7	46.0	23,300
60	60	21.5	28.6	17,300
70	16	80.9	76.7	181,300
70	17	80.1	76.6	170,400
70	18	79.2	76.3	156,200
70	19	78.4	76.1	136,000
70	20	77.6	75.9	120,300
70	25	73.3	74.5	75,400
70	30	69.0	72.7	54,100
70	35	64.5	70.4	41,600
70	40	59.8	67.7	33,500
70	45	54.9	64.4	27,800
70	50	49.6	60.3	23,500
70	60	37.5	49.4	17,400
70	70	19.8	30.3	13,400
80	17	81.3	86.7	170,000
80	18	80.6	86.5	157,000
80	19	79.9	86.3	136,700
80	20	79.1	86.1	120,800
80	25	75.5	84.9	75,600
80	30	71.7	83.4	54,200
80	35	67.9	81.4	41,700
80	40	63.9	79.1	33,400

**COUNTERWEIGHT CONFIGURATION**

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
80	45	59.8	76.3	27,700
80	50	55.5	73.1	23,400
80	60	46.2	64.7	17,300
80	70	34.9	52.6	13,300
80	80	18.4	31.9	10,400
90	19	81.0	96.5	136,700
90	20	80.4	96.3	120,800
90	25	77.1	95.3	75,600
90	30	73.8	93.9	54,200
90	35	70.5	92.2	41,700
90	40	67.0	90.2	33,400
90	45	63.5	87.8	27,700
90	50	59.8	85.0	23,400
90	60	52.1	78.0	17,400
90	70	43.4	68.7	13,400
90	80	32.8	55.6	10,500
90	90	17.3	33.4	8,300
100	20	81.3	106.5	121,300
100	25	78.4	105.5	75,800
100	30	75.5	104.3	54,300
100	35	72.5	102.8	41,600
100	40	69.4	101.0	33,300
100	45	66.3	98.9	27,600
100	50	63.1	96.5	23,300
100	60	56.5	90.5	17,200
100	70	49.2	82.7	13,200
100	80	41.0	72.5	10,300
100	90	31.1	58.4	8,100
100	100	16.4	34.8	6,400
110	22	81.1	116.3	98,200
110	25	79.5	115.7	75,800
110	30	76.8	114.6	54,200
110	35	74.1	113.3	41,500
110	40	71.4	111.7	33,200
110	45	68.6	109.8	27,500
110	50	65.8	107.6	23,100
110	60	59.9	102.3	17,000
110	70	53.6	95.6	13,000
110	80	46.7	87.1	10,100
110	90	39.0	76.0	8,000
110	100	29.6	61.0	6,300
110	110	15.6	36.2	4,900
120	24	80.9	126.1	82,400
120	25	80.4	125.9	76,000
120	30	77.9	124.9	54,200
120	35	75.5	123.7	41,500
120	40	73.0	122.2	33,100
120	45	70.5	120.5	27,400
120	50	67.9	118.5	22,900
120	60	62.6	113.8	16,800
120	70	57.1	107.8	12,800
120	80	51.1	100.4	9,900
120	90	44.6	91.2	7,700
120	100	37.2	79.4	6,100
120	110	28.3	63.5	4,700
120	120	14.9	37.4	3,600
130	25	81.1	136.1	75,700
130	30	78.9	135.1	54,000
130	35	76.6	134.0	41,200
130	40	74.3	132.7	32,900
130	45	72.0	131.1	27,200
130	50	69.7	129.3	22,800
130	60	64.9	125.0	16,600
130	70	59.9	119.6	12,600
130	80	54.6	113.1	9,700
130	90	49.0	105.1	7,600
130	100	42.8	95.2	5,900
130	110	35.7	82.7	4,600
130	120	27.1	65.9	3,500
130	130	14.3	38.7	2,500
140	27	80.9	145.9	65,400
140	30	79.7	145.3	54,000
140	35	77.6	144.3	41,200
140	40	75.5	143.0	32,700
140	45	73.4	141.6	27,000
140	50	71.2	139.9	22,600
140	60	66.8	136.0	16,400
140	70	62.3	131.1	12,400
140	80	57.5	125.2	9,500
140	90	52.5	118.1	7,300
140	100	47.1	109.4	5,600
140	110	41.1	98.9	4,300
140	120	34.3	85.8	3,200
140	130	26.1	68.2	2,300

**SEE NOTE 6! - FOR MACHINE ON
OUTRIGGERS**

150	28	81.2	155.8	60,900
150	30	80.4	155.5	53,900
150	35	78.4	154.5	41,000
150	40	76.5	153.4	32,500
150	45	74.5	152.0	26,800
150	50	72.5	150.5	22,400
150	60	68.4	146.9	16,200
150	70	64.3	142.4	12,100
150	80	59.9	137.0	9,200
150	90	55.4	130.5	7,100
150	100	50.5	122.8	5,400
150	110	45.4	113.7	4,000
150	120	39.6	102.6	2,900
150	130	33.1	88.8	2,000

**DEDUCTION FROM RATED BOOM LOADS WHEN LIFTING OVER
BOOM POINT WITH 68A AUXILIARY SHEAVE POINT ATTACHED**

Boom Length in ft.	50 - 280
Deduct in lbs. No Hook on Aux. Sheave Point	600
Deduct in lbs. with Max. 1,200 lbs. Hook and Ball on Aux. Sheave Point	2,000

**A.I.S.C. Certified Erector****PCI P.C.I. Qualified Erector**