

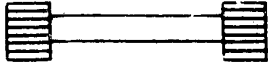
# L. R. WILLSON & SONS, INC.

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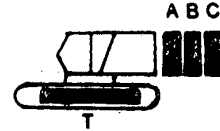
GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

## 76A BOOM – ON CRAWLERS 360° 75% STABILITY



CAPACITY IN POUNDS  
WITH A,B,C & T 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
40	12	82.7	47.1	300,000	70	50	51.3	60.5	67,600	110	60	60.9	102.4	52,500
40	13	81.3	46.9	300,000	70	60	39.2	49.6	53,000	110	70	54.7	95.7	42,600
40	14	79.8	46.7	300,000	70	70	21.6	30.6	43,000	110	80	47.8	87.2	35,400
40	15	78.3	46.4	300,000	80	18	82.0	86.7	255,700	110	90	40.1	76.2	30,000
40	16	76.8	46.1	300,000	80	19	81.3	86.5	253,600	110	100	30.6	61.2	25,900
40	17	75.3	45.7	300,000	80	20	80.6	86.3	251,500	110	110	16.7	36.4	22,400
40	18	73.8	45.4	285,400	80	25	76.9	85.1	181,600	120	26	80.8	125.8	170,600
40	19	72.2	45.0	269,900	80	30	73.2	83.5	137,600	120	30	78.9	125.0	137,200
40	20	70.7	44.6	256,000	80	35	69.3	81.6	110,100	120	35	76.4	123.8	109,600
40	25	62.6	41.9	181,300	80	40	65.4	79.3	91,300	120	40	74.0	122.3	90,700
40	30	53.7	38.2	137,500	80	45	61.3	76.5	77,800	120	45	71.4	120.6	77,200
40	35	43.4	33.0	110,200	80	50	57.0	73.2	67,500	120	50	68.9	118.6	66,800
40	40	29.9	25.0	91,500	80	60	47.7	64.8	52,900	120	60	63.6	113.9	52,200
50	13	83.0	75.0	300,000	80	70	36.4	52.8	42,900	120	70	58.0	108.0	42,300
50	14	81.9	56.9	300,000	80	80	20.0	32.2	35,700	120	80	52.1	100.6	35,100
50	15	80.7	56.7	300,000	90	19	82.3	96.6	243,100	120	90	45.6	91.3	29,700
50	16	79.5	56.5	300,000	90	20	81.6	96.5	241,000	120	100	38.2	79.6	25,600
50	17	78.3	56.2	298,700	90	25	78.4	95.4	181,600	120	110	29.2	63.7	22,200
50	18	77.1	55.9	284,500	90	30	75.1	94.0	137,600	120	120	15.9	37.7	19,300
50	19	75.9	55.6	269,100	90	35	71.7	92.3	110,100	130	27	81.1	135.8	160,600
50	20	74.7	55.3	255,200	90	40	68.3	90.3	91,400	130	30	79.8	135.2	136,900
50	25	68.6	53.2	181,400	90	45	64.8	87.9	77,900	130	35	77.5	134.1	109,400
50	30	62.1	50.5	137,500	90	50	61.1	85.1	67,500	130	40	75.2	132.8	90,600
50	35	55.1	47.0	110,100	90	60	53.4	78.2	53,000	130	45	72.9	131.2	77,000
50	40	47.3	42.4	91,400	90	70	44.7	68.8	43,000	130	50	70.6	129.4	66,600
50	45	38.2	36.3	77,900	90	80	34.2	55.7	35,900	130	60	65.8	125.1	52,100
50	50	26.2	27.1	67,500	90	90	18.7	33.7	30,400	130	70	60.8	119.8	42,100
60	15	82.3	66.9	280,300	100	20	82.5	106.6	229,100	130	80	55.5	113.2	35,000
60	16	81.3	66.7	278,800	100	25	79.6	105.6	181,600	130	90	49.9	105.2	29,600
60	17	80.3	66.5	277,400	100	30	76.6	104.4	137,500	130	100	43.7	95.3	25,500
60	18	79.3	66.2	276,100	100	35	73.6	102.9	110,000	130	110	36.6	82.8	22,100
60	19	78.4	66.0	268,700	100	40	70.6	101.1	91,200	130	120	28.0	66.1	19,300
60	20	77.4	65.7	254,800	100	45	67.5	99.0	77,600	130	130	15.2	38.9	16,900
60	25	72.3	64.1	181,500	100	50	64.3	96.6	67,300	140	29	80.9	145.6	144,000
60	30	67.2	61.9	137,600	100	60	57.6	90.6	52,700	140	30	80.5	145.4	136,800
60	35	61.7	59.2	110,200	100	70	50.4	82.8	42,800	140	35	78.4	144.4	109,300
60	40	55.9	55.8	91,500	100	80	42.2	72.6	35,600	140	40	76.3	143.1	90,300
60	45	49.7	51.5	77,900	100	90	32.3	58.5	30,200	140	45	74.2	141.7	76,800
60	50	42.7	46.2	67,600	100	100	17.6	35.1	26,000	140	50	72.0	140.0	66,400
60	60	23.6	28.9	52,900	110	24	81.1	116.0	193,800	140	60	67.6	136.1	51,800
70	17	81.7	76.7	269,000	110	25	80.5	115.9	181,400	140	70	63.1	131.2	41,800
70	18	80.9	76.5	267,000	110	30	77.9	114.7	137,300	140	80	58.3	125.3	34,700
70	19	80.1	76.3	263,900	110	35	75.2	113.4	109,800	140	90	53.3	118.2	29,300
70	20	79.2	76.0	254,500	110	40	72.4	111.8	91,000	140	100	47.9	109.6	25,200
70	25	75.0	74.6	181,600	110	45	69.7	109.9	77,400	140	110	42.0	99.1	21,800
70	30	70.6	72.8	137,600	110	50	66.8	107.7	67,100	140	120	35.2	85.9	19,000
70	35	66.1	70.6	110,200						140	130	26.9	68.4	16,600
70	40	61.5	67.8	91,500						140	140	14.6	40.1	14,600
70	45	56.6	64.5	78,000										

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800122 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.



A.I.S.C. Certified Erector



PCI P.C.I. Qualified Erector

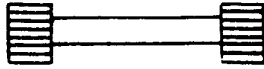
# L. R. WILLSON & SONS, INC.

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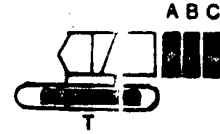
GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

## 76A BOOM – ON CRAWLERS 360° 75% STABILITY



**CAPACITY IN POUNDS  
WITH A,B,C & T COUNTERWEIGHTS**



**COUNTER WEIGHT  
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
150	30	81.1	155.6	136,600	180	35	81.0	185.2	108,400	200	140	48.0	154.3	12,800
150	35	79.2	154.6	109,000	180	40	79.4	184.2	89,400	200	150	43.9	144.3	11,100
150	40	77.2	153.5	90,100	180	45	77.8	183.1	75,800	200	160	39.5	132.7	9,600
150	45	75.3	152.1	76,500	180	50	76.1	181.9	65,300	200	170	34.7	119.0	8,300
150	50	73.3	150.6	66,100	180	60	72.8	178.9	50,700	200	180	29.1	102.4	7,200
150	60	69.2	147.0	51,500	180	70	69.4	175.3	40,700	200	190	22.3	80.7	6,100
150	70	65.0	142.5	41,600	180	80	66.0	170.9	33,500	200	200	12.0	46.4	5,200
150	80	60.7	137.1	34,400	180	90	62.4	165.9	28,300					
150	90	56.1	130.6	29,200	180	100	58.7	160.0	24,100	210	40	80.9	214.7	88,500
150	100	51.3	122.9	24,900	180	110	54.8	153.2	20,600	210	45	79.5	213.8	75,000
150	110	46.1	113.8	21,500	180	120	50.8	145.3	17,800	210	50	78.2	212.7	64,500
150	120	40.4	102.7	18,700	180	130	46.5	136.2	15,500	210	60	75.3	210.2	49,900
150	130	33.9	88.9	16,400	180	140	41.8	125.5	13,500	210	70	72.5	207.2	39,800
150	140	26.0	70.6	14,300	180	150	36.7	112.8	11,800	210	80	69.6	203.6	32,600
150	150	14.1	41.2	12,600	180	160	30.8	97.2	10,300	210	90	66.6	199.4	27,400
					180	170	23.6	76.9	9,000	210	100	63.6	194.5	23,200
160	32	81.0	165.4	123,900	180	180	12.7	44.4	7,800	210	110	60.5	189.0	19,700
160	35	79.9	164.8	108,800						210	120	57.3	182.8	16,900
160	40	78.1	163.7	89,900	190	37	80.9	195.0	99,700	210	130	53.9	175.7	14,600
160	45	76.2	162.5	76,300	190	40	80.0	194.4	89,100	210	140	50.4	167.7	12,600
160	50	74.3	161.1	65,800	190	45	78.4	193.4	75,500	210	150	46.7	158.6	10,900
160	60	70.6	157.7	51,300	190	50	76.9	192.2	65,000	210	160	42.8	148.2	9,400
160	70	66.7	153.5	41,300	190	60	73.7	189.4	50,400	210	170	38.5	136.2	8,100
160	80	62.7	148.6	34,100	190	70	70.6	186.0	40,400	210	180	33.8	122.0	6,900
160	90	58.5	142.7	28,800	190	80	67.3	181.9	33,200	210	190	28.4	104.9	5,900
160	100	54.2	135.7	24,600	190	90	64.0	177.2	28,000	210	200	21.7	82.6	5,000
160	110	49.5	127.5	21,200	190	100	60.5	171.7	23,800					
160	120	44.6	117.8	18,400	190	110	57.0	165.4	20,300	<b>220</b>	<b>41</b>	<b>81.1</b>	<b>224.7</b>	<b>85,100</b>
160	130	39.1	106.2	16,000	190	120	53.2	158.2	17,500	220	45	80.0	224.0	74,700
160	140	32.8	91.8	14,000	190	130	49.3	149.9	15,200	220	50	78.7	223.0	64,200
160	150	25.1	72.8	12,300	190	140	45.2	140.3	13,200	220	60	76.0	220.6	49,600
160	160	13.6	42.3	10,800	190	150	40.6	129.2	11,500	220	70	73.3	217.7	39,500
					190	160	35.6	116.0	10,000	220	80	70.6	214.3	32,300
170	34	80.8	175.2	113,200	190	170	29.9	99.8	8,700	220	90	67.8	210.3	27,100
170	35	80.5	175.0	108,600	190	180	22.9	78.8	7,500	220	100	64.9	205.7	22,800
170	40	78.8	174.0	89,600	190	190	12.4	45.4	6,500	220	110	62.0	200.5	19,400
170	45	77.0	172.8	76,000						220	120	58.9	194.7	16,600
170	50	75.3	171.5	65,600	200	38	81.1	204.9	95,700	220	130	55.8	188.1	14,200
170	60	71.8	168.3	51,000	200	40	80.5	204.6	88,800	220	140	52.6	180.6	12,200
170	70	68.1	164.5	41,000	200	45	79.0	203.6	75,300	220	150	49.2	172.2	10,500
170	80	64.4	159.8	33,800	200	50	77.5	202.5	64,800	220	160	45.6	162.7	9,000
170	90	60.6	154.4	28,600	200	60	74.6	199.8	50,200	220	170	41.8	152.0	7,700
170	100	56.6	148.0	24,400	200	70	71.6	196.6	40,100	220	180	37.6	139.5	6,600
170	110	52.4	140.6	21,000	200	80	68.5	192.8	32,900	220	190	33.0	125.0	5,600
170	120	47.9	131.9	18,200	200	90	65.4	188.3	27,700	220	200	27.7	107.3	4,600
170	130	43.1	121.7	15,800	200	100	62.2	183.2	23,400					
170	140	37.8	109.5	13,800	200	110	58.8	177.3	20,000					
170	150	31.7	94.5	12,100	200	120	55.4	170.6	17,200					
170	160	24.3	74.8	10,600	200	130	51.8	163.0	14,800					
170	170	13.1	43.3	9,300										

RATED LOADS APPEARING IN SHADED AREAS ARE BASED ON STRUCTURAL OR OTHER FACTORS RATHER THAN STABILITY.

READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800122 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.



A.I.S.C. Certified Erector



P.C.I. Qualified Erector

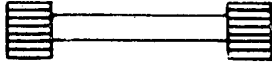
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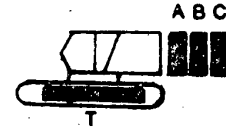
GAMBRILLS, MARYLAND 21054

www.lrwilsonandsons.com

## 76A BOOM – ON CRAWLERS 360° 75% STABILITY



**CAPACITY IN POUNDS  
WITH A,B,C & T COUNTERWEIGHTS**



**COUNTERWEIGHT  
CONFIGURATION**

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
<b>230</b>	<b>43</b>	<b>81.0</b>	<b>234.5</b>	<b>76,900</b>
230	45	80.5	234.2	74,400
230	50	79.2	233.2	63,900
230	60	76.6	230.9	49,300
230	70	74.1	228.1	39,200
230	80	71.4	224.9	32,000
230	90	68.8	221.1	26,800
230	100	66.1	216.8	22,500
230	110	63.3	211.9	19,100
230	120	60.4	206.3	16,300
230	130	57.5	200.1	13,900
230	140	54.5	193.2	11,900
230	150	51.3	185.4	10,200
230	160	48.0	176.7	8,700
230	170	44.5	166.8	7,400
230	180	40.8	155.6	6,300
230	190	36.7	142.8	5,200
230	200	32.2	127.8	4,300

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
SEE NOTE 4! BOOM				
<b>240</b>	<b>44</b>	<b>81.1</b>	<b>244.5</b>	<b>70,000</b>
<b>240</b>	<b>45</b>	<b>80.9</b>	<b>244.3</b>	<b>69,800</b>
240	50	79.7	243.4	63,700
240	60	77.2	241.2	49,000
240	70	74.7	238.6	38,900
240	80	72.2	235.5	31,600
240	90	69.7	231.9	26,500
240	100	67.1	227.7	22,200
240	110	64.5	223.1	18,700
240	120	61.8	217.9	15,900
240	130	59.0	212.0	13,500
240	140	56.2	205.5	11,500
240	150	53.2	198.2	9,800
240	160	50.1	190.0	8,300
240	170	46.9	181.0	7,000
240	180	43.5	170.8	5,800
240	190	39.9	159.2	4,800
<b>240</b>	<b>200</b>	<b>35.9</b>	<b>146.0</b>	<b>3,800</b>

BOOM LGTH	LOAD RAD	BOOM ANG	SHEAVE HGT	RATED LOAD
SEE NOTE 4! BOOM				
<b>250</b>	<b>46</b>	<b>81.0</b>	<b>254.3</b>	<b>63,300</b>
<b>250</b>	<b>50</b>	<b>80.1</b>	<b>253.6</b>	<b>62,700</b>
250	60	77.7	251.5	48,700
250	70	75.4	249.0	38,600
250	80	73.0	246.0	31,300
250	90	70.6	242.5	26,200
250	100	68.1	238.6	21,900
250	110	65.6	234.2	18,400
250	120	63.0	229.2	15,600
250	130	60.4	223.7	13,200
250	140	57.7	217.5	11,200
250	150	54.9	210.6	9,500
250	160	52.1	203.0	8,000
250	170	49.1	194.6	6,700
250	180	45.9	185.2	5,600
250	190	42.6	174.6	4,500
<b>250</b>	<b>200</b>	<b>39.0</b>	<b>162.7</b>	<b>3,500</b>

### DEDUCTION FROM RATED BOOM LOADS WHEN LIFTING OVER BOOM POINT WITH 46A JIB ATTACHED TO 76A BOOM

Jib Length in ft.	80	100	120	140	160
Deduct in lbs. No Hook on Jib	13,100	15,100	17,800	20,400	23,400
Deduct in lbs. with Max. 1200 lb. 1 Sheave Hookblock on Jib	15,700	18,000	21,100	24,000	27,300

### DEDUCTION FROM RATED BOOM LOADS WHEN LIFTING OVER BOOM POINT WITH 32A JIB ATTACHED TO 76A BOOM

Jib Length in ft.	30	50	70	90
Deduct in lbs. No Hook on Jib	4,300	6,000	7,600	8,600
Deduct in lbs. with Max. 1200 lb. 1 Sheave Hookblock on Jib	6,300	8,600	10,700	12,200

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READ AND UNDERSTAND LIFTING CAPACITY NOTES ON A6-829-800122 LOCATED IN THE FRONT OF THIS MANUAL BEFORE OPERATING THIS MACHINE.



A.I.S.C. Certified Erector



PCI P.C.I. Qualified Erector