

L. R. WILLSON & SONS, INC.

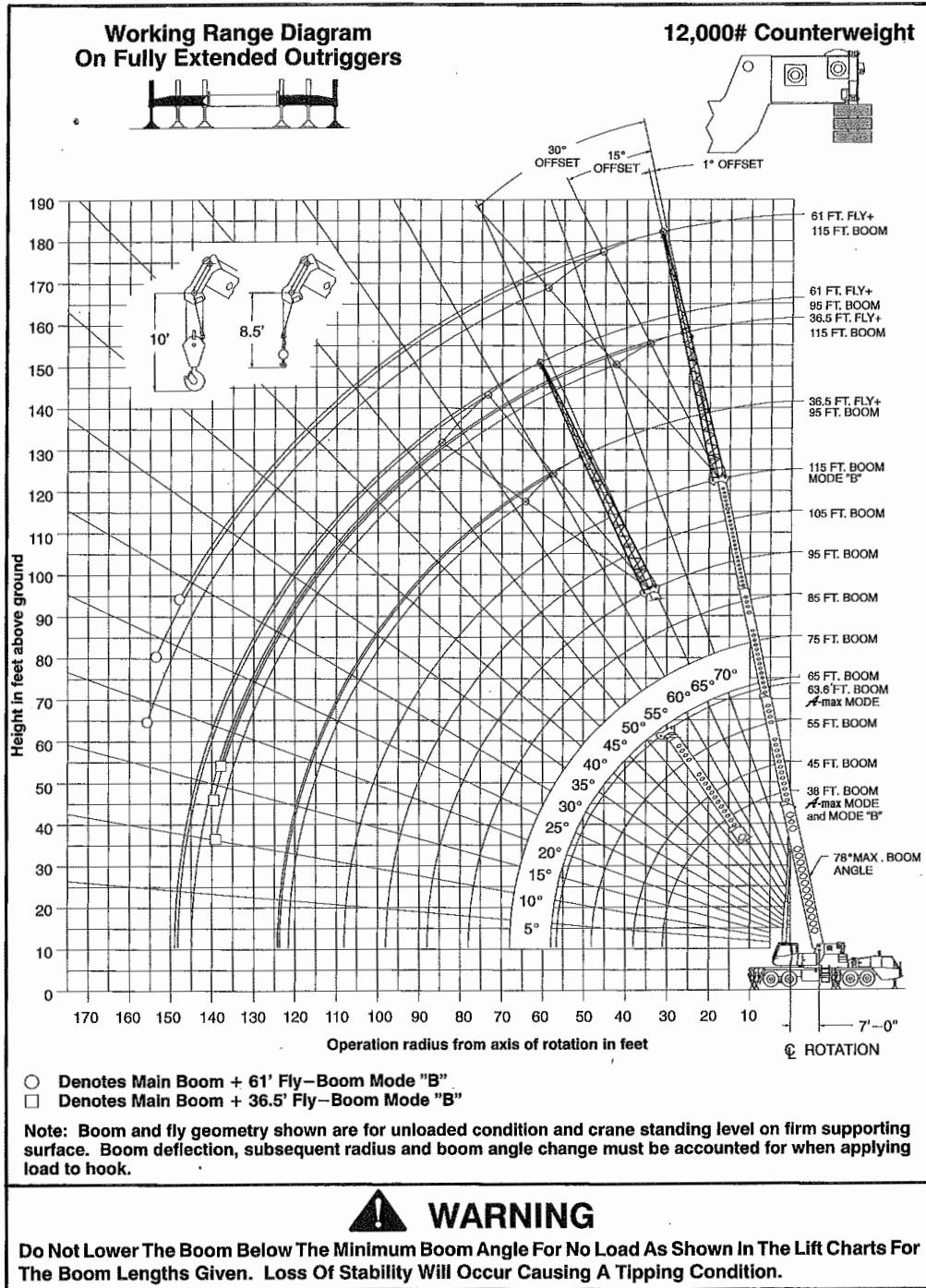
773 ANNAPOLIS ROAD • PO BOX 227

GAMBRILLS, MARYLAND 21054

www.lrwillsonandsons.com



WORKING RANGE DIAGRAM



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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Fully Extended Outriggers - Main Boom Capacities - 12,000 lb. Counterweight

Maximum Allowable Lifting Capacities
Rated Lifting Capacities in Pounds
On Fully Extended Outriggers
See Set Up Note 2.

12,000# COUNTERWEIGHT

38 Ft. To 45 Ft. Main Boom

Load Radius In Feet	38 Ft.		45 Ft.		Load Radius In Feet		
	Loaded Boom Angle (Deg.)	Over Rear	Loaded Boom Angle (Deg.)	Over Rear			
9	69.0	140,000	140,000		9		
10	67.0	132,000	132,000	71.0	10		
12	64.0	115,600	115,600	68.5	12		
15	58.5	99,300	99,300	64.0	15		
20	48.5	74,300	74,300	56.5	20		
25	38.5	57,500	57,500	48.0	25		
30	17.5	42,100	42,100	38.0	30		
35			24.5	31,800	35		
Min. Boom Angle/Cap.	0°	26,300	26,300	0°	21,100	21,100	Min. Boom Angle/Cap.

Maximum Allowable Lifting Capacities
Rated Lifting Capacities in Pounds
On Fully Extended Outriggers
See Set Up Note 2.

12,000# COUNTERWEIGHT

55 Ft. To 63.6 Ft. Main Boom

Load Radius In Feet	55 Ft.		63.6 Ft.		Load Radius In Feet		
	Loaded Boom Angle (Deg.)	Over Rear	Loaded Boom Angle (Deg.)	Over Rear			
10	75.0	85,600	85,600		10		
12	73.0	85,600	85,600	75.5	12		
15	69.5	85,600	85,600	73.0	15		
20	63.5	72,900	73,000	68.0	20		
25	57.5	58,300	58,300	63.0	25		
30	50.5	40,900	40,900	57.5	30		
35	43.0	31,300	31,300	51.5	35		
40	34.5	24,700	24,700	45.5	40		
45	22.0	19,900	19,900	38.0	45		
50				29.0	50		
55				16.0	55		
Min. Boom Angle/Cap.	0°	14,800	14,800	0°	11,000	11,000	Min. Boom Angle/Cap.

Maximum Allowable Lifting Capacities
Rated Lifting Capacities in Pounds
On Fully Extended Outriggers
See Set Up Note 2.

12,000# COUNTERWEIGHT

BOOM MODE "B"

38 Ft. To 55 Ft. Main Boom

Load Radius In Feet	38 Ft.		45 Ft.		55 Ft.		Load Radius In Feet			
	Loaded Boom Angle (Deg.)	Over Rear	Loaded Boom Angle (Deg.)	Over Rear	Loaded Boom Angle (Deg.)	Over Rear				
9	69.0	140,000	140,000				9			
10	67.0	132,000	132,000	71.0	42,000	42,000	10			
12	64.0	115,600	115,600	68.0	42,000	42,000	12			
15	58.5	99,300	99,300	64.0	42,000	42,000	15			
20	48.5	74,300	74,300	56.5	42,000	42,000	20			
25	38.5	57,500	57,500	48.0	42,000	42,000	25			
30	17.5	42,100	42,100	38.0	42,000	42,000	30			
35			24.5	32,900	32,900	43.0	35			
40				34.0	28,700	28,700	40			
45				22.0	21,900	21,900	45			
Min. Boom Angle/Cap.	0°	26,300	26,300	0°	20,100	20,100	0°	14,400	14,400	Min. Boom Angle/Cap.

Maximum Allowable Lifting Capacities
Rated Lifting Capacities in Pounds
On Fully Extended Outriggers
See Set Up Note 2.

12,000# COUNTERWEIGHT

BOOM MODE "B"

95 Ft. To 115 Ft. Main Boom

Load Radius In Feet	95 Ft.		105 Ft.		115 Ft.		Load Radius In Feet			
	Loaded Boom Angle (Deg.)	Over Rear	Loaded Boom Angle (Deg.)	Over Rear	Loaded Boom Angle (Deg.)	Over Rear				
20	76.5	38,600	38,600				20			
25	73.5	33,800	33,800	79.5	30,300	30,300	25			
30	70.0	29,800	29,800	72.5	27,000	27,000	30			
35	67.0	25,600	25,600	69.5	24,100	24,100	35			
40	63.5	23,000	23,000	66.5	21,700	21,700	40			
45	60.0	21,700	21,700	63.5	19,600	19,600	45			
50	58.0	19,000	19,000	60.5	17,900	17,900	50			
55	52.0	16,100	16,100	57.0	16,200	16,200	55			
60	48.0	13,800	13,800	53.5	13,900	13,900	60			
65	43.5	11,900	12,000	49.5	12,000	12,100	65			
70	38.5	10,200	10,400	46.0	10,300	10,400	70			
75	33.0	8,800	9,000	41.5	8,900	9,100	75			
80	26.5	7,600	7,800	37.0	7,700	7,900	80			
85	17.0	6,500	6,800	31.5	6,600	6,900	85			
90				25.0	5,700	6,000	90			
95				16.5	4,900	5,200	95			
100					24.5	4,300	4,600	100		
105					16.0	3,700	4,000	105		
Min. Boom Angle/Cap.	0°	4,700	4,700	0°	3,500	3,500	0°	2,500	2,500	Min. Boom Angle/Cap.

Maximum Allowable Lifting Capacities
Rated Lifting Capacities in Pounds
On Fully Extended Outriggers
See Set Up Note 2.

12,000# COUNTERWEIGHT

65 Ft. To 85 Ft. Main Boom

Load Radius In Feet	65 Ft.		75 Ft.		85 Ft.		Load Radius In Feet			
	Loaded Boom Angle (Deg.)	Over Rear	Loaded Boom Angle (Deg.)	Over Rear	Loaded Boom Angle (Deg.)	Over Rear				
12	76.5	42,000	42,000				12			
15	73.0	42,000	42,000	75.5	42,000	42,000	15			
20	68.0	42,000	42,000	71.5	42,000	42,000	20			
25	63.5	42,000	42,000	68.0	42,000	42,000	25			
30	58.0	42,000	42,000	63.5	42,000	42,000	30			
35	52.5	33,800	33,800	58.5	34,000	34,000	35			
40	46.5	27,100	27,100	54.0	27,300	27,300	40			
45	39.5	22,200	22,200	48.5	22,500	22,500	45			
50	31.5	18,600	18,600	43.0	18,800	18,800	50			
55	20.0	15,700	15,700	37.0	15,900	15,900	55			
60				29.0	13,500	13,500	60			
65				19.0	11,600	11,700	65			
70					27.5	10,100	10,200	70		
75					18.0	8,700	8,900	75		
Min. Boom Angle/Cap.	0°	10,700	10,700	0°	8,100	8,100	0°	6,100	6,100	Min. Boom Angle/Cap.



A.I.S.C. Certified Erector



PCI P.C.I. Qualified Erector