

34,000 CTWT, 46" Heavy Duty Boom For Lifting Crane Service Only

Boom Length	Radius Feet	Boom Angle Degrees	Crawlers Retracted	Crawlers Extended
40'	12	78		140,000
	15	74		105,150
	20	66	<i>*49,600</i>	66,850
	25	58	<i>*37,100</i>	48,700
	30	49	<i>*29,450</i>	38,100
	35	39	<i>*24,300</i>	31,150
	40	25	<i>*20,600</i>	26,250
50'	12	81		120,000
	15	77		104,850
	20	71	<i>*49,300</i>	66,550
	25	65	<i>*36,800</i>	48,400
	30	58	<i>*29,150</i>	37,800
	35	51	<i>*24,000</i>	30,850
60'	40	45	<i>*20,300</i>	25,950
	50	22	15,350	19,550
60'	14	81		109,500
	15	79		104,550
	20	74	<i>*49,000</i>	66,250
	25	69	<i>*36,500</i>	48,100
	30	64	<i>*28,850</i>	37,500
	35	59	<i>*23,700</i>	30,550
70'	40	53	20,000	25,650
	50	39	15,050	19,250
	60	20	11,850	15,150
70'	15	81	<i>*72,950</i>	104,250
	20	77	<i>*48,700</i>	65,950
	25	73	<i>*36,200</i>	47,800
	30	68	<i>*28,550</i>	37,200
	35	63	23,400	30,250
	40	59	19,700	25,350
80'	50	49	14,750	18,950
	60	37	11,550	14,850
	70	19	9,350	12,050
80'	17	81	<i>*62,800</i>	88,500
	20	78	<i>*48,400</i>	65,650
	25	75	<i>*35,900</i>	47,500
	30	71	<i>*28,250</i>	36,900
	35	67	23,100	29,950
	40	63	19,400	25,050
90'	50	55	14,450	18,650
	60	45	11,250	14,550
	70	34	9,050	11,750
	80	17	7,400	9,750
90'	19	81	<i>*52,800</i>	73,000
	20	80	<i>*48,100</i>	65,350
	25	77	<i>*35,600</i>	47,200
	30	73	27,950	36,600
	35	70	22,800	29,650
	40	66	19,100	24,750
100'	50	59	14,150	18,350
	60	52	10,950	14,250
	70	43	8,750	11,450
	80	32	7,100	9,450
	90	17	5,850	7,900
100'	25	78	<i>*35,300</i>	46,900
	30	75	27,650	36,300
	35	72	22,500	29,350
	40	69	18,800	24,450
	50	63	13,850	18,050
	60	56	10,650	13,950
100'	70	49	8,450	11,150
	80	41	6,800	9,150
	90	31	5,550	7,600
		17	4,550	6,350

Boom Length	Radius Feet	Boom Angle Degrees	Crawlers Retracted	Crawlers Extended
*110'	22	81	<i>42,500</i>	57,100
	25	79	<i>35,000</i>	46,600
	30	76	27,350	36,000
	35	74	22,200	29,050
	40	71	18,500	24,150
	50	65	13,550	17,750
*110'	60	59	10,350	13,650
	70	53	8,150	10,850
	80	46	6,500	8,850
	90	39	5,250	7,300
	100	30	4,250	6,050
	110	15	3,450	5,050
*120'	23	81	39,500	53,600
	25	80	24,700	46,300
	30	77	27,050	35,700
	35	76	21,900	28,750
	40	73	18,200	23,850
	50	68	13,250	17,450
*120'	60	62	10,050	13,350
	70	57	7,850	10,550
	80	51	6,200	8,550
	90	44	4,950	7,000
	100	37	3,950	5,750
	110	28	3,150	4,750
*130'	120	15	2,500	4,700
	25	81	34,400	46,000
	30	78	26,750	35,400
	35	76	21,600	28,450
	40	74	17,900	23,550
	50	69	12,950	17,150
*130'	60	65	9,750	13,050
	70	60	7,550	10,250
	80	54	5,900	8,250
	90	49	4,650	6,700
	100	42	3,650	5,450
	110	36	2,850	4,450
*140'	120	26	2,200	4,400
	26	81	32,600	43,000
	30	79	26,450	35,100
	35	77	21,300	28,150
	40	75	17,600	23,250
	50	71	12,650	16,850
*140'	60	66	9,450	12,750
	70	62	7,250	9,950
	80	57	5,600	7,950
	90	52	4,350	6,400
	100	47	3,350	5,150
	110	41	2,550	4,150
*150'	120	34	1,900	4,100
	28	81	29,200	39,000
	30	80	26,150	34,800
	35	78	21,000	27,850
	40	76	17,300	22,950
	50	72	12,350	16,550
*150'	60	68	9,150	12,450
	70	64	6,950	9,650
	80	60	5,300	7,650
	90	55	4,050	6,100
	100	50	3,050	4,850
	110	45	2,250	3,850
*160'	120	39	1,600	3,800
	30	81	25,850	34,500
	35	79	20,700	27,550
	40	77	17,000	22,650
	50	73	12,050	16,250
	60	70	8,850	12,150
*160'	70	66	6,650	9,350
	80	62	5,000	7,350
	90	57	3,750	5,800
	100	53	2,750	4,550
	110	48	1,950	3,550
	120	44	1,300	3,500

For No. 6 Jib Ratings, see sheet 454.03 or 14.03
For No. 7HL Jib Ratings see sheet 454.04 or 14.04
For No. 9 Jib Ratings see sheet 454.06 or 14.06

Load ratings do not exceed 75% of tipping with crane standing level on firm, uniformly supporting surface. Safe loads depend on ground conditions, boom length, radius of operation and proper handling, all of which must be taken into consideration by user.

"Radius in Feet" is the horizontal distance at ground level from center pin to a vertical line through the center of gravity of the suspended load. Blocks, slings, buckets and other load carrying devices are considered part of the load.

Ratings marked (*) require retractable "A" Frame fully raised.

Booms 110 ft. long or over require retractable "A" Frame fully raised (*). Operation of crane with retractable "A" Frame in any position other than fully raised or fully retracted is not permissible.

Ratings indicated in italics represent boom position which, without load, provide less than standard backward stability.

"These ratings apply for lifting crane service only." For duty cycle service (dragline, clamshell, grapple, magnet, etc.) the counterweight must be reduced to 19,000 lbs. by removing inserts F1, F2 and G. See separate chart for "Duty Cycle Ratings, Failure to reduce counterweight for duty cycle operation will void the warranty of this machine."