

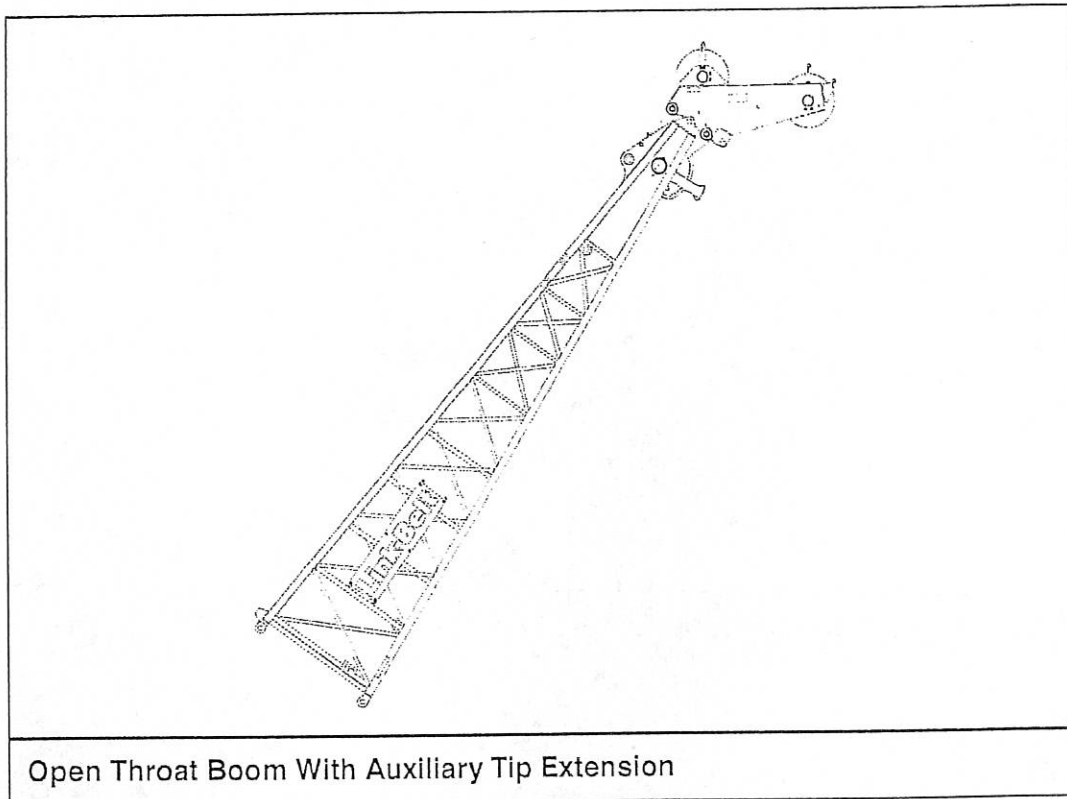
Maximum Allowable Capacities For Auxiliary Tip Extension

Lifting Capacity To Be The Smallest Of The Following Values:

1. 37,000 lb maximum.
2. The standard crane lift capacity minus 900 lb with nylon sheaves or 1,150 lb with steel sheaves for the crane configuration in use.

Notes:

1. All notes are to be adhered to as listed on the standard lift crane capacity charts.
2. Reduce the main boom lift capacities by 900 lb when the auxiliary tip extension with nylon sheaves is installed.
3. Reduce the main boom lift capacities by 1,150 lb when the auxiliary tip extension with steel sheaves is installed.
4. The maximum boom length on which the auxiliary tip extension can be installed is 200'.
5. Do not lift or suspend a load from the auxiliary tip extension and main boom at the same time.



Open Throat Boom With Auxiliary Tip Extension

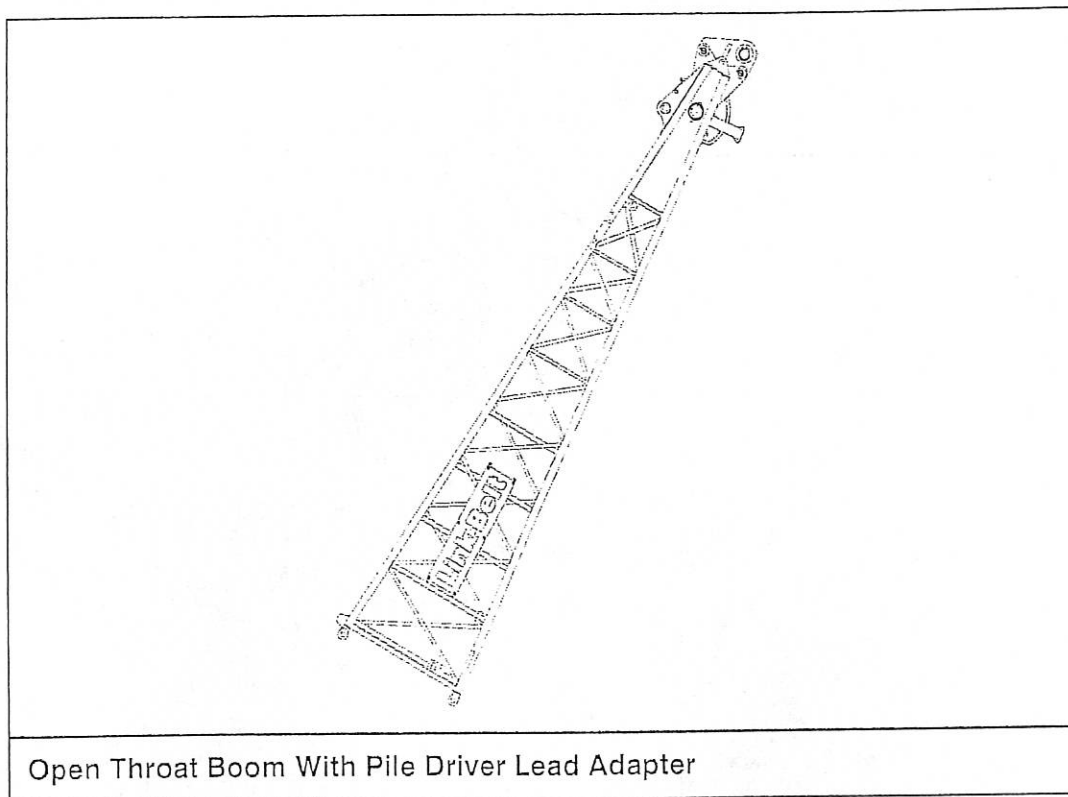
Maximum Allowable Capacities For Pile Driver Lead Adapter

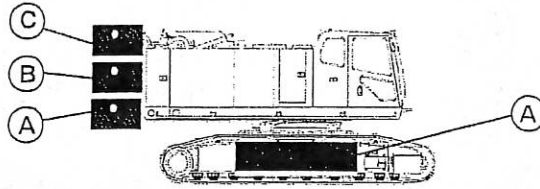
Lifting Capacity To Be The Smallest Of The Following Values:

1. 100,000 lb maximum.
2. The standard crane lift capacity minus 200 lb for crane configuration in use.

Notes:

1. All notes are to be adhered to as listed on the standard lift crane capacity charts.
2. Reduce the main boom lift capacities by 200 lb when the pile driver lead adapter is installed.
3. The maximum boom length on which the pile driver lead adapter can be installed is 200'.

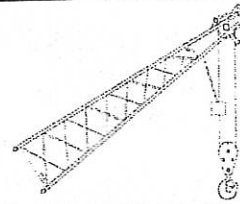
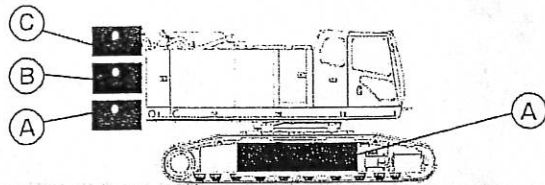




Main Boom Capacities – 40' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						Load Radius (ft)
		Extended Side Frames		Extended Side Frames				Retracted Side Frames		
		ABC+A CTWT (lb)	ABC+O CTWT (lb)	ABC+A CTWT (lb)	ABC+O CTWT (lb)	AB+O CTWT (lb)	A+O CTWT (lb)	A+O CTWT (lb)	O+O CTWT (lb)	
11.28	80.0	220,000	Prohibited	220,000	Prohibited	216,400	201,700	113,200	62,700	11.28
12	78.9	216,400		208,400		204,500	190,500	101,700	56,300	12
13	77.5	202,900		195,300		189,900	166,200	89,100	49,200	13
14	76.0	189,400		183,400		177,300	141,300	79,200	43,600	14
15	74.5	177,600		173,100		158,800	122,800	71,300	39,100	15
16	73.0	167,100		163,700		140,500	108,600	64,800	35,400	16
17	71.5	157,800		155,400		125,800	97,200	59,300	32,300	17
18	70.0	149,500		147,700		113,900	88,000	54,600	29,700	18
19	68.5	142,000		137,500		104,000	80,300	50,600	27,400	19
20	66.9	135,100		126,600		95,700	73,800	47,100	25,500	20
25	58.9	108,800	90,200	68,000	52,300	34,900	18,500	25		
30	50.1	86,900	69,800	52,500	40,200	27,400	14,300	30		
35	39.9	68,100	56,700	42,500	32,400	22,400	11,500	35		
40	26.9	53,500	47,600	35,600	27,000	18,800	9,400	40		
41.92	20.0	51,000	44,800	33,400	25,300	17,600	8,700	41.92		

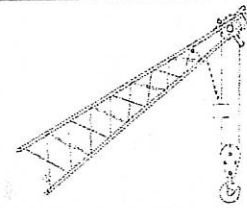
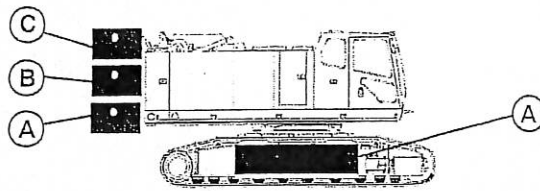
Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.



Main Boom Capacities – 50' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						Load Radius (ft)
		Extended Side Frames		Extended Side Frames				Retracted Side Frames		
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	
13.01	80.0	192,700	Prohibited	192,700	Prohibited	189,400	166,200	89,100	49,200	13.01
14	78.8	189,000		183,400		177,000	141,600	79,400	43,700	14
15	77.7	177,300		173,100		159,100	123,100	71,400	39,200	15
16	76.5	166,900		163,700		140,700	108,800	64,800	35,500	16
17	75.3	157,600		155,400		126,100	97,400	59,400	32,400	17
18	74.1	149,300		147,700		114,100	88,100	54,700	29,800	18
19	72.9	141,800		137,700		104,200	80,400	50,700	27,500	19
20	71.7	135,000		126,700		95,900	73,900	47,200	25,500	20
25	65.6	108,700		90,300		68,200	52,400	34,900	18,600	25
30	59.1	87,400		69,900		52,600	40,300	27,500	14,400	30
35	52.2	70,300	56,800	42,600	32,600	22,500	11,500	35		
40	44.5	58,600	47,700	35,700	27,200	18,900	9,500	40		
50	24.0	40,800	35,800	26,600	20,100	14,000	6,700	50		
51.32	20.0	39,700	34,700	25,700	19,400	13,500	6,400	51.32		

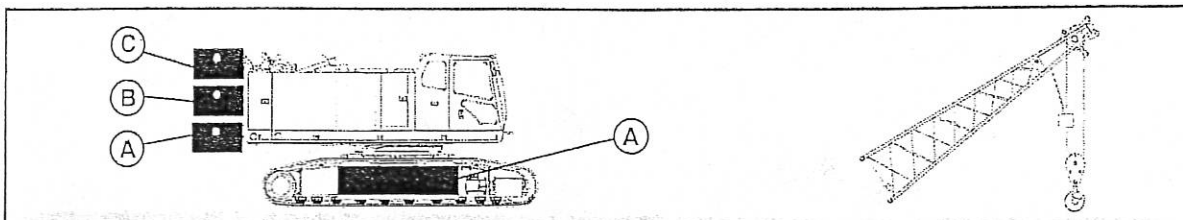
Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.



Main Boom Capacities – 60' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						Load Radius (ft)
		Extended Side Frames		Extended Side Frames				Retracted Side Frames		
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	
14.75	80.0	171,000	Prohibited	171,000	Prohibited	164,600	127,500	73,300	40,300	14.75
15	79.8	169,900		169,900		159,300	123,300	71,400	39,200	15
16	78.8	166,700		163,700		140,800	108,900	64,800	35,500	16
17	77.8	157,300		155,400		126,200	97,500	59,300	32,400	17
18	76.8	149,000		147,700		114,200	88,200	54,700	29,800	18
19	75.8	141,500		137,800		104,300	80,500	50,700	27,500	19
20	74.9	134,700		126,800		95,900	74,000	47,200	25,500	20
25	69.8	108,500		90,400		68,200	52,400	34,900	18,500	25
30	64.7	87,500		69,900		52,600	40,300	27,400	14,300	30
35	59.3	70,300		56,800		42,600	32,500	22,400	11,500	35
40	53.5	58,600		47,700		35,700	27,100	18,800	9,500	40
50	40.4	43,600		35,900		26,600	20,100	14,000	6,700	50
60	21.9	32,600		28,500		21,000	15,700	10,900	4,900	60
60.71	20.0	32,200		28,000		20,600	15,400	10,700	4,800	60.71

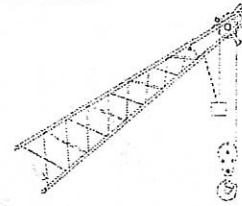
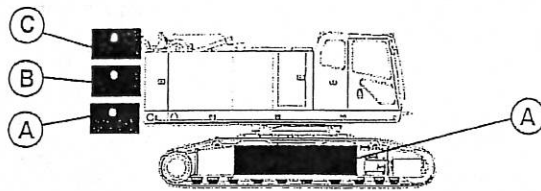
Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.



Main Boom Capacities – 70' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						Load Radius (ft)
		Extended Side Frames		Extended Side Frames				Retracted Side Frames		
		ABC+A CTWT (lb)	ABC+O CTWT (lb)	ABC+A CTWT (lb)	ABC+O CTWT (lb)	AB+O CTWT (lb)	A+O CTWT (lb)	A+O CTWT (lb)	O+O CTWT (lb)	
16.49	80.0	155,000	Prohibited	155,000	Prohibited	133,300	103,100	62,000	33,900	16.49
17	79.6	153,600		153,600		126,200	97,600	59,300	32,300	17
18	78.7	148,600		147,700		114,200	88,200	54,600	29,700	18
19	77.9	141,200		137,800		104,300	80,500	50,600	27,400	19
20	77.1	134,400		126,800		95,900	74,000	47,100	25,400	20
25	72.8	108,300		90,300		68,100	52,400	34,800	18,500	25
30	68.5	87,400		69,900		52,500	40,200	27,300	14,200	30
35	64.0	70,200		56,800		42,600	32,500	22,300	11,400	35
40	59.4	58,500		47,600		35,600	27,100	18,700	9,400	40
50	49.3	43,600		35,800		26,600	20,000	13,900	6,600	50
60	37.3	34,500		28,400		20,900	15,600	10,800	4,800	60
70	20.3	26,700		23,300		17,100	12,600	8,600	3,600	70
70.11	20.0	26,600		23,300		17,000	12,600	8,600	3,600	70.11

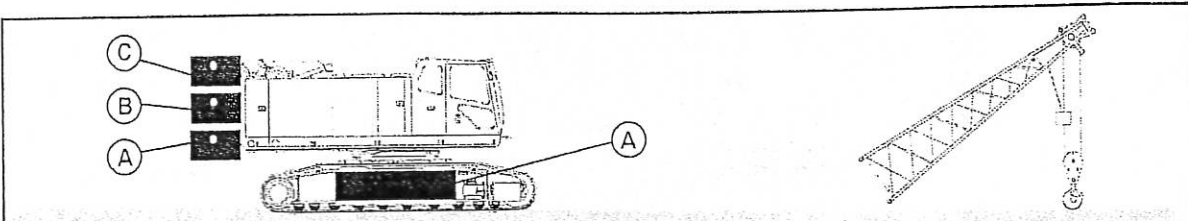
Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.



Main Boom Capacities – 80' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						Load Radius (ft)
		Extended Side Frames		Extended Side Frames				Retracted Side Frames		
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	
18.22	80.0	138,000	Prohibited	138,000	Prohibited	111,800	86,400	53,600	29,100	18.22
19	79.4	136,300		136,300		104,300	80,500	50,500	27,300	19
20	78.7	133,800		126,700		95,900	74,000	47,000	25,300	20
25	75.0	108,000		90,200		68,100	52,300	34,700	18,300	25
30	71.3	87,400		69,800		52,500	40,200	27,200	14,100	30
35	67.5	70,100		56,700		42,500	32,400	22,200	11,300	35
40	63.5	58,400		47,500		35,500	27,000	18,600	9,200	40
50	55.2	43,500		35,700		26,500	19,900	13,800	6,500	50
60	45.9	34,400		28,300		20,800	15,500	10,700	4,700	60
70	34.8	28,200		23,300		17,000	12,500	8,600	3,500	70
80	18.9	22,500		19,600		14,200	10,300	6,900	—	80

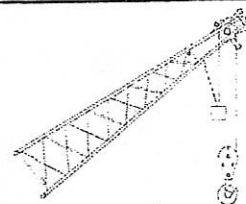
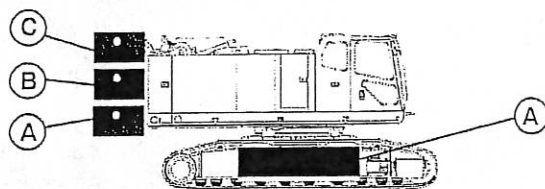
Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.



Main Boom Capacities – 90' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						Load Radius (ft)
		Extended Side Frames		Extended Side Frames				Retracted Side Frames		
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	A+0 CTWT (lb)	O+0 CTWT (lb)	
19.96	80.0	126,200	Prohibited	126,200	Prohibited	96,100	74,100	47,000	25,300	19.96
25	76.7	107,700		90,200		68,000	52,200	34,500	18,200	25
30	73.4	87,300		69,700		52,300	40,000	27,100	14,000	30
35	70.1	70,000		56,500		42,300	32,300	22,000	11,100	35
40	66.7	58,300		47,400		35,400	26,800	18,500	9,100	40
50	59.5	43,400		35,600		26,300	19,800	13,600	6,300	50
60	51.8	34,200		28,200		20,700	15,400	10,600	4,600	60
70	43.1	28,100		23,100		16,900	12,400	8,400	3,300	70
80	32.8	23,600		19,500		14,100	10,200	6,800	—	80
90	17.8	18,900		16,700		11,900	8,500	5,600	—	90

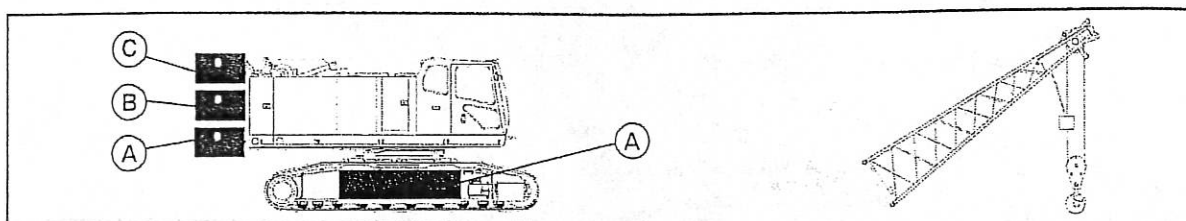
Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.



Main Boom Capacities – 100' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						Load Radius (ft)
		Extended Side Frames		Extended Side Frames				Retracted Side Frames		
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	
21.70	80.0	113,500	113,500	111,400	103,500	84,100	64,800	41,700	22,200	21.70
25	78.1	107,300	106,200	90,100	83,600	67,900	52,100	34,400	18,100	25
30	75.1	87,200	80,400	69,500	64,500	52,200	39,900	26,900	13,800	30
35	72.1	69,900	64,500	56,400	52,300	42,200	32,100	21,900	11,000	35
40	69.1	58,200	53,600	47,300	43,800	35,200	26,700	18,300	8,900	40
50	62.8	43,200	39,700	35,400	32,700	26,200	19,600	13,500	6,200	50
60	56.2	34,100	31,300	28,000	25,900	20,600	15,200	10,400	4,400	60
70	49.0	27,900	25,600	23,000	21,200	16,700	12,200	8,300	3,200	70
80	40.8	23,500	21,400	19,300	17,800	13,900	10,100	6,700	—	80
90	31.1	20,100	18,300	16,500	15,200	11,800	8,400	5,400	—	90
100	16.9	16,200	15,900	14,300	13,100	10,100	7,100	4,500	—	100

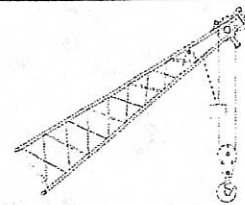
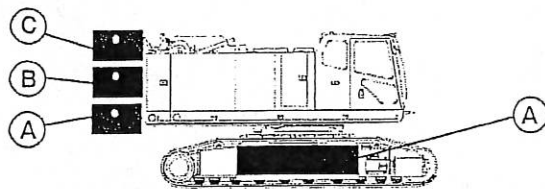
Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.



Main Boom Capacities – 110' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						Load Radius (ft)
		Extended Side Frames		Extended Side Frames				Retracted Side Frames		
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	
23.43	80.0	104,300	104,300	99,000	91,900	74,600	57,400	37,400	19,700	23.43
25	79.2	102,300	102,300	89,900	83,500	67,700	52,000	34,200	17,900	25
30	76.5	86,700	80,300	69,400	64,400	52,100	39,800	26,700	13,600	30
35	73.8	69,800	64,300	56,300	52,100	42,100	32,000	21,700	10,800	35
40	71.1	58,000	53,400	47,100	43,600	35,100	26,500	18,100	8,700	40
50	65.5	43,100	39,600	35,200	32,600	26,000	19,500	13,300	6,000	50
60	59.6	33,900	31,100	27,900	25,700	20,400	15,100	10,200	4,200	60
70	53.3	27,700	25,400	22,800	21,000	16,500	12,100	8,100	3,000	70
80	46.5	23,300	21,300	19,200	17,600	13,700	9,900	6,500	—	80
90	38.8	19,900	18,200	16,400	15,000	11,600	8,200	5,300	—	90
100	29.6	17,300	15,700	14,200	13,000	9,900	6,900	4,300	—	100
110	16.1	13,800	13,700	12,400	11,300	8,600	5,800	3,500	—	110

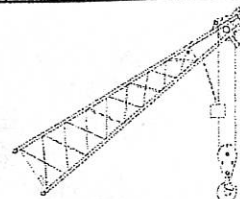
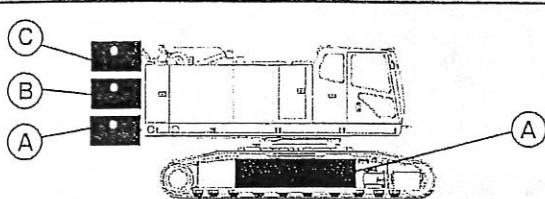
Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.



Main Boom Capacities – 120' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						Load Radius (ft)
		Extended Side Frames		Extended Side Frames				Retracted Side Frames		
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	
25.17	80.0	96,100	96,100	88,900	82,600	67,000	51,400	33,700	Prohibited	25.17
30	77.6	86,200	80,200	69,300	64,200	51,900	39,700	26,600		30
35	75.2	69,600	64,200	56,100	52,000	41,900	31,800	21,500		35
40	72.7	57,900	53,300	47,000	43,500	34,900	26,400	17,900		40
50	67.6	42,900	39,400	35,100	32,400	25,900	19,300	13,100		50
60	62.4	33,700	30,900	27,700	25,500	20,200	14,900	10,000		60
70	56.8	27,600	25,200	22,700	20,800	16,400	11,900	7,900		70
80	50.9	23,100	21,100	19,000	17,400	13,600	9,700	6,300		80
90	44.4	19,800	18,000	16,200	14,800	11,400	8,100	5,100		90
100	37.1	17,100	15,600	14,000	12,800	9,800	6,800	4,100		100
110	28.3	15,000	13,600	12,300	11,100	8,400	5,700	3,300		110
120	15.4	12,000	12,000	10,800	9,800	7,300	4,800	—		120

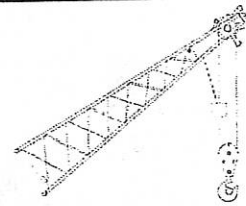
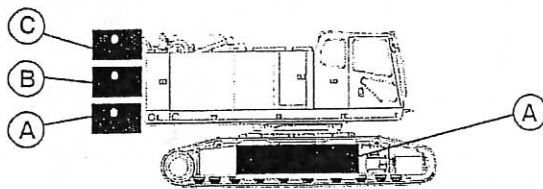
Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.



Main Boom Capacities – 130' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						Load Radius (ft)
		Extended Side Frames		Extended Side Frames				Retracted Side Frames		
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	
26.91	80.0	86,200	86,200	80,600	74,800	60,600	46,400	30,600	Prohibited	26.91
30	78.6	83,200	80,100	69,100	64,100	51,800	39,500	26,400		30
35	76.4	69,500	64,000	55,900	51,800	41,700	31,700	21,400		35
40	74.1	57,700	53,100	46,800	43,300	34,800	26,200	17,800		40
50	69.4	42,700	39,200	34,900	32,200	25,700	19,100	12,900		50
60	64.6	33,600	30,800	27,500	25,300	20,000	14,700	9,800		60
70	59.7	27,400	25,000	22,500	20,600	16,200	11,700	7,700		70
80	54.4	22,900	20,900	18,800	17,200	13,400	9,500	6,100		80
90	48.8	19,600	17,800	16,000	14,600	11,300	7,900	4,900		90
100	42.6	17,000	15,400	13,800	12,600	9,600	6,600	4,000		100
110	35.6	14,800	13,400	12,100	11,000	8,200	5,500	3,200		110
120	27.2	12,800	11,800	10,600	9,600	7,100	4,600	—		120
130	14.8	10,300	10,300	9,400	8,400	6,200	3,900	—	130	

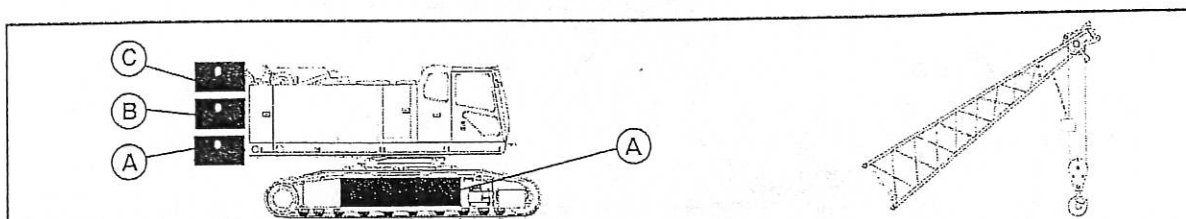
Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.



Main Boom Capacities – 140' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						Load Radius (ft)
		Extended Side Frames		Extended Side Frames				Retracted Side Frames		
		ABC+A CTWT (lb)	ABC+0 CTWT (lb)	ABC+A CTWT (lb)	ABC+0 CTWT (lb)	AB+0 CTWT (lb)	A+0 CTWT (lb)	A+0 CTWT (lb)	0+0 CTWT (lb)	
28.64	80.0	79,500	79,500	73,600	68,300	55,200	42,100	27,900	Prohibited	28.64
30	79.4	78,300	78,300	69,000	63,900	51,700	39,400	26,200		30
35	77.3	69,400	63,900	55,800	51,700	41,600	31,500	21,200		35
40	75.2	57,600	53,000	46,600	43,100	34,600	26,100	17,600		40
50	71.0	42,500	39,100	34,700	32,000	25,500	19,000	12,700		50
60	66.6	33,400	30,600	27,300	25,200	19,900	14,500	9,700		60
70	62.0	27,200	24,900	22,300	20,500	16,000	11,500	7,500		70
80	57.3	22,700	20,700	18,600	17,100	13,200	9,400	5,900		80
90	52.3	19,400	17,600	15,800	14,500	11,100	7,700	4,700		90
100	46.9	16,800	15,200	13,700	12,400	9,400	6,400	3,800		100
110	41.0	14,600	13,200	11,900	10,800	8,100	5,300	3,000		110
120	34.3	12,900	11,600	10,400	9,400	6,900	4,500	—		120
130	26.2	10,900	10,300	9,200	8,300	6,000	3,700	—		130
140	14.3	8,800	8,800	8,200	7,300	5,200	3,100	—		140

Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.



Main Boom Capacities – 150' Open Throat Tube Boom

Load Radius (ft)	Boom Angle (deg)	Over End Blocked		360° Rotation						Load Radius (ft)
		Extended Side Frames		Extended Side Frames				Retracted Side Frames		
		ABC+A CTWT (lb)	ABC+O CTWT (lb)	ABC+A CTWT (lb)	ABC+O CTWT (lb)	AB+O CTWT (lb)	A+O CTWT (lb)	A+O CTWT (lb)	O+O CTWT (lb)	
30.38	80.0	73,400	73,400	67,600	62,700	50,600	38,500	25,600	Prohibited	30.38
35	78.2	69,000	63,700	55,600	51,500	41,400	31,300	21,000		35
40	76.2	57,400	52,800	46,500	43,000	34,400	25,900	17,400		40
50	72.3	42,400	38,900	34,500	31,900	25,300	18,800	12,500		50
60	68.2	33,200	30,400	27,100	25,000	19,700	14,400	9,500		60
70	64.0	27,000	24,700	22,100	20,300	15,800	11,400	7,300		70
80	59.7	22,600	20,500	18,400	16,900	13,000	9,200	5,700		80
90	55.2	19,200	17,400	15,700	14,300	10,900	7,500	4,500		90
100	50.4	16,600	15,000	13,500	12,200	9,200	6,200	3,600		100
110	45.2	14,500	13,000	11,700	10,600	7,900	5,100	—		110
120	39.5	12,700	11,400	10,300	9,200	6,800	4,300	—		120
130	33.1	11,300	10,100	9,000	8,100	5,800	3,500	—		130
140	25.2	9,400	8,900	8,000	7,100	5,000	—	—		140
150	13.8	7,500	7,500	7,100	6,300	4,300	—	—		150

Note: Refer To Page 26 For "Capacity Deductions" Caused By Any Attachment On The Boom.