

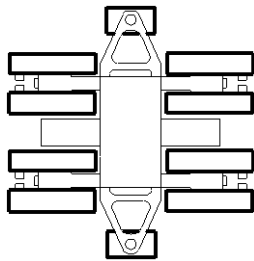
Liftcrane Luffing Jib Capacities

21000
MAX-ER

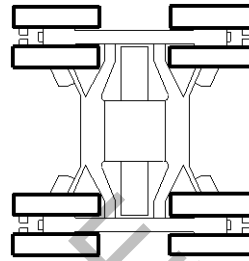
Luffing Jib No. 81 On
Boom No. 80 With 140 ft Mast No. 81
458,700 lb Crane Counterweight
200,000 lb Carbody Counterweight
0 lb Hanging Counterweight

Meets
ANSI B30.5
Requirements

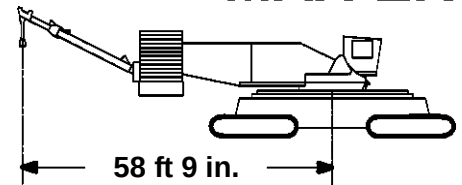
at 58 ft 9 in. Position
Narrow or Wide Crawler Arrangement - 360 Degree Rating



Narrow Crawler Arrangement
360 Degree Rating on Outriggers
Or
Front or Rear Rating With or Without
Retracted Outrigger Jacks



Wide Crawler Arrangement
360 Degree Rating



LIFTING CAPACITIES: Lifting capacities for various boom lengths, boom angles, luffing jib lengths, and luffing jib operating radii are for freely suspended loads and do not exceed 75% of a static tipping load. Capacities based on structural competence are denoted by an asterisk (*). **360 degree operation requires set outrigger jacks for narrow crawler arrangement.**

Capacities indicated by (b) require 37,000 lb minimum weight suspended beneath luffing jib point.

Caution: Do not luff into area indicated by (c) with 37,000 lb minimum weight. Luffing jib will not luff down and luffing hoist wire rope may overhaul luffing jib and cause wire rope damage or failure.

Exit MAX-ER mode before operating without hanging counterweight.

Simultaneous hoisting of both load drums is required for even block travel.

Upper luffing jib point capacity for liftcrane service with single part whip line is 48,800 lb or 97,600 lb with two part whip line. In all cases, upper luffing jib point capacities cannot exceed those listed for main luffing jib capacity.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc. beneath boom and luffing jib point sheaves is considered part of luffing jib load. Boom and luffing jib are not to be lowered beyond radii where combined weights are greater than rated capacity. Where no capacity is shown, operation is not intended or approved.

OPERATING CONDITIONS

General: Machine to operate on a firm uniformly supporting surface with gantry in intermediate position, mast up and bearing turntable level within a tolerance of 1/2 in. in 10 ft and properly supported. During operation, boom must be maintained at one of the selected angles shown in chart. Refer to luffing jib rigging assembly **No. 192589** and Wire Rope Specification chart **No. 8201-A**. Crane operator judgment must be used to allow for dynamic load effects of swinging, hoisting or lowering, travel, wind conditions, as well as adverse operating conditions and physical machine depreciation. Refer to Operator's Manual for operating guidelines.

Narrow Crawler Arrangement: Narrow crawler arrangement (30 ft 0 in.) requires outriggers with jacks set for 360 degree operation (no travel). Refer to Operator's Manual for jacking instructions. Operation restricted to limited swing over front or rear with outrigger jacks retracted or outriggers removed. Refer to Operating Range Diagram chart **No. 8141-A**.

Wide Crawler Arrangement: Operation with wide crawler arrangement (47 ft 6 in.) is 360 degrees.

MACHINE TRAVEL

General: Machine to travel on a firm, level, and uniformly supporting surface with boom and luffing jib within angle range shown in capacity chart. Refer to Swing and Travel Specification chart **No. 8679-A**.

Narrow Crawler Arrangement: Narrow crawler arrangement (30 ft 0 in.) travel allowed only with upperworks centered over front or rear of lowerworks (no swing) with outrigger jacks retracted or outriggers removed.

Wide Crawler Arrangement: Wide crawler arrangement (47 ft 6 in.) travel allowed with 360 degree rating.

Liftcrane Luffing Jib Capacities

21000

MAX-ER

Luffing Jib No. 81 On

Boom No. 80 With 140 ft Mast No. 81

458,700 lb Crane Counterweight

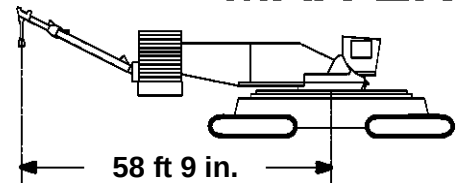
200,000 lb Carbody Counterweight

0 lb Hanging Counterweight

at 58 ft 9 in. Position

Narrow or Wide Crawler Arrangement - 360 Degree Rating

Meets
ANSI B30.5
Requirements



OPERATING RADIUS: Operating radius is horizontal distance from axis of rotation to center of vertical hoist line or load block. Boom angle is angle between horizontal and centerline of boom butt and inserts. Luffing jib angle is angle between horizontal and centerline of luffing jib butt and inserts, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

LUFFING JIB POINT ELEVATION: Luffing jib point elevation is vertical distance from ground level to centerline of luffing jib point shaft.

MACHINE EQUIPMENT: Machine equipped with MAX-ER, lowerworks carbody beams, outriggers, eight 16 ft 4 in. crawlers, 48 in. treads, 140 ft mast, 28 ft retractable gantry, 20 part boom hoist reeving, boom

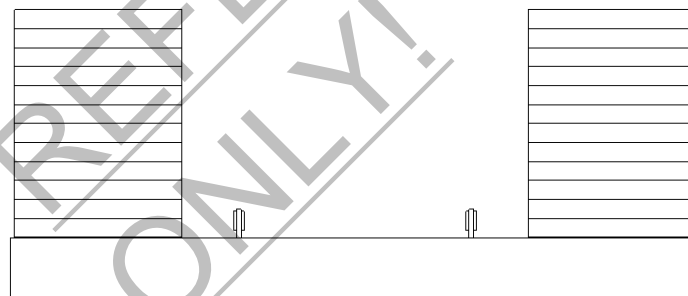
support straps, 22 part luffing jib hoist reeving, luffing jib and backstay support straps, 458,700 lb crane counterweight, two 53,500 lb and two 46,500 lb carbody counterweights and 0 lb hanging counterweight.

Warning: Front carbody platform must be removed when raising or lowering boom.

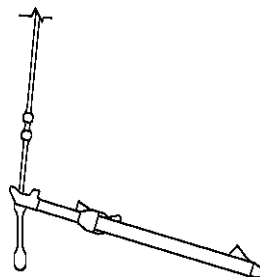
Warning: Narrow crawler arrangement requires set outrigger jacks to swing beyond front or rear operating range.

Machine may tip over side with outrigger jacks retracted or removed. Refer to wind folio for restrictions.

WARNING: Check amount of crane counterweight and hanging counterweight on machine before use of this chart. Refer to counterweight assemblies.



458,700 lb Crane Counterweight
24 Side Boxes



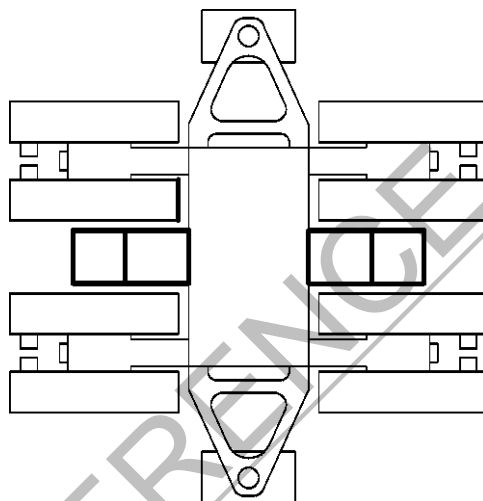
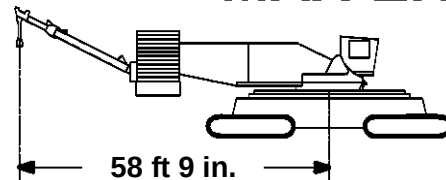
0 lb Hanging Counterweight

Liftcrane Luffing Jib Capacities

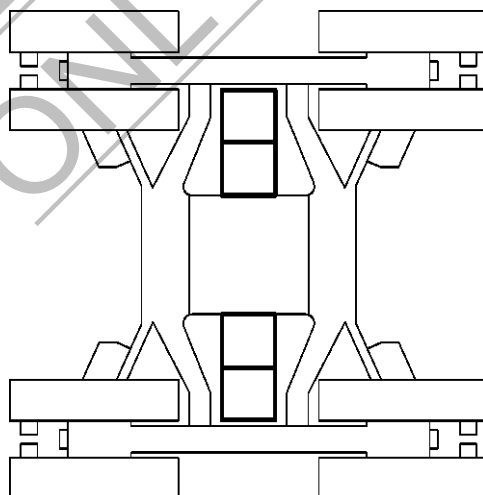
Luffing Jib No. 81 On
Boom No. 80 With 140 ft Mast No. 81
458,700 lb Crane Counterweight
200,000 lb Carbody Counterweight
0 lb Hanging Counterweight
at 58 ft 9 in. Position
Narrow or Wide Crawler Arrangement - 360 Degree Rating

Meets
ANSI B30.5
Requirements

**21000
MAX-ER**



200,000 lb Carbody Counterweight
2 Inner Boxes - 2 Outer Boxes
Narrow Crawler Arrangement



200,000 lb Carbody Counterweight
2 Inner Boxes - 2 Outer Boxes
Wide Crawler Arrangement

Liftcrane Luffing Jib Capacities

21000

MAX-ER

Luffing Jib No. 81 On

Boom No. 80 With 140 ft Mast No. 81

458,700 lb Crane Counterweight

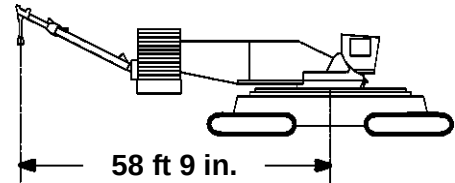
200,000 lb Carbody Counterweight

0 lb Hanging Counterweight

at 58 ft 9 in. Position

Narrow or Wide Crawler Arrangement - 360 Degree Rating

Meets
ANSI B30.5
Requirements



WITH OR WITHOUT BOOM AND/OR JIB CATWALKS		
Maximum Boom and Luffing Jib Lengths Lifted Unassisted Using Jack-Knife Method With 0 lb Hanging Counterweight		
Boom Length Feet	Luffing Jib No. 81 Feet	Boom to Luffing Jib Angle Degrees
Over End of Blocked Crawlers		
180	120 - 300	60
200	120 - 240	60
Over End of Unblocked Crawlers		
180	120 - 300	60
200	120 - 160	60
Load blocks, hook and weight ball on ground until boom and luffing jib are erected.		

RAISING AND LOWERING PROCEDURE

Boom and luffing jib combinations must be raised and lowered using jack-knife method.

Release swing brake (disengage swing lock) and slowly raise boom while jib point dolly is allowed to roll on ground. Tension should be applied to luffing jib hoist to keep jib strut off luffing jib during boom raising. Boom up until boom to luffing jib angle reaches value specified in table or jib is vertical, whichever occurs first. Tighten luffing jib suspension with luffing jib hoist. Boom and luffing jib are then raised together using boom hoist until boom reaches desired boom operating angle. Luffing jib radius must be within capacity chart before swinging over side of machine.

Position boom at 85 degrees prior to lowering luffing jib. Lower luffing jib until boom to luffing jib angle reaches value specified in table. Lower boom until luffing jib point is just above ground. If luffing jib is hanging vertical, raise luffing jib a few degrees forward of vertical. Position dolly under jib point, then lower jib point onto dolly. Release swing brake (disengage swing lock) and continue to lower boom while luffing jib rolls along ground. Keep enough tension on luffing jib hoist to keep jib strut off luffing jib.

NOTE: Upper jib point cannot be installed until boom and jib are jack-knifed into position and must be removed before contacting ground when lowering.

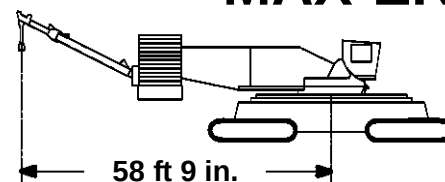
CAUTION: Do not under any condition allow boom to luffing jib angle to become less

Liftcrane Luffing Jib Capacities

Luffing Jib No. 81 On
Boom No. 80 With 140 ft Mast No. 81
458,700 lb Crane Counterweight
200,000 lb Carbody Counterweight
0 lb Hanging Counterweight
at 58 ft 9 in. Position
Narrow or Wide Crawler Arrangement - 360 Degree Rating

Meets
ANSI B30.5
Requirements

21000
MAX-ER



than 60
degrees.

180 ft Boom 120 ft Luffing Jib

Jib Oper. Rad. Feet	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds
60			c			
65			c			
70			c			
75	66.4	300.2	518,700*b			
80	63.7	297.7	482,000*b			
85	61.0	294.9	449,700*b			c
90	58.2	291.8	421,000*b	66.8	298.3	392,300*b
95	55.2	288.3	395,300*b	64.1	295.8	368,400*b
100	52.2	284.4	372,200*	61.4	293.0	346,800*b
105	49.1	280.1	351,300*	58.6	290.0	327,300*b
110	45.7	275.2	332,300*	55.7	286.5	309,600*b
115	42.2	269.7	314,800*	52.7	282.7	293,300*
120	38.4	263.5	298,700*	49.5	278.4	278,400*
125	34.2	256.2	283,900*	46.2	273.7	264,700*
130	29.4	247.7	270,000*	42.7	268.3	251,900*
135	23.8	237.0	256,800*	38.9	262.1	240,000*
140	16.2	221.9	244,200*	34.8	255.1	228,900*
145				30.2	246.7	218,400*
150				24.7	236.4	208,400*
155				17.5	222.3	198,600*

Capacities indicated by (b) require
37,000 lb minimum weight
suspended beneath luffing jib point.

180 ft Boom 140 ft Luffing Jib

Jib Oper. Rad. Feet	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds
65			c			
70			c			
75	69.9	322.0	515,900*b			
80	67.7	319.9	479,300*b			
85	65.5	317.6	447,100*b			
90	63.2	315.0	418,600*b			
95	60.8	312.2	393,000*b	68.0	317.9	364,800*b
100	58.4	309.1	370,100*	65.8	315.6	343,400*b
105	56.0	305.7	349,300*	63.5	313.1	324,100*b
110	53.4	302.0	330,500*	61.2	310.4	306,500*b
115	50.8	297.9	313,200*	58.8	307.3	290,400*
120	48.0	293.4	297,400*	56.3	304.0	275,700*
125	45.1	288.5	282,800*	53.8	300.3	262,100*
130	42.1	282.9	269,300*	51.1	296.2	249,500*
135	38.8	276.8	256,700*	48.4	291.8	237,900*
140	35.3	269.8	245,000*	45.5	286.9	227,000*
145	31.5	261.8	234,000*	42.5	281.5	216,900*
150	27.1	252.4	223,500*	39.3	275.4	207,400*
155	21.9	240.7	213,600*	35.8	268.6	198,400*
160	14.9	224.4	203,900*	32.0	260.8	189,900*
165				27.8	251.6	181,800*
170				22.7	240.3	174,000*
175				16.1	224.9	166,300*

Do not luff into area indicated by
(c) with 37,000 lb minimum weight
(see CAUTION on page 1).

Liftcrane Luffing Jib Capacities

21000

MAX-ER

Luffing Jib No. 81 On

Boom No. 80 With 140 ft Mast No. 81

458,700 lb Crane Counterweight

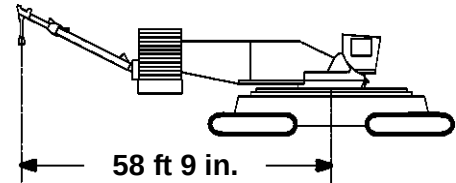
200,000 lb Carbody Counterweight

0 lb Hanging Counterweight

at 58 ft 9 in. Position

Narrow or Wide Crawler Arrangement - 360 Degree Rating

Meets
ANSI B30.5
Requirements



180 ft Boom

160 ft Luffing Jib

Jib Oper. Rad. Feet	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds
70			^c			
75	72.6	343.2	513,700* ^b			
80	70.7	341.5	477,100* ^b			
85	68.7	339.5	445,000* ^b			
90	66.8	337.3	416,500* ^b			
95	64.8	335.0	391,100* ^b			
100	62.8	332.4	368,200*	69.0	337.5	340,700* ^b
105	60.7	329.5	347,500*	67.1	335.4	321,400* ^b
110	58.6	326.5	328,800*	65.1	333.0	304,000* ^b
115	56.5	323.1	311,600*	63.1	330.5	288,000*
120	54.3	319.5	295,900*	61.0	327.7	273,400*
125	52.0	315.6	281,400*	58.9	324.6	259,900*
130	49.6	311.4	268,100*	56.8	321.4	247,500*
135	47.2	306.7	255,700*	54.6	317.8	235,900*
140	44.7	301.7	244,200*	52.3	313.9	225,200*
145	42.0	296.2	233,400*	50.0	309.7	215,200*
150	39.2	290.1	223,300*	47.6	305.1	205,900*
155	36.2	283.3	213,800*	45.0	300.2	197,100*
160	32.9	275.7	204,800*	42.4	294.7	188,800*
165	29.3	267.0	196,400*	39.6	288.7	181,000*
170	25.2	256.8	188,200*	36.6	282.0	173,600*
175	20.4	244.2	180,400*	33.4	274.6	166,600*
180	13.8	226.7	172,700*	29.9	266.1	159,900*
185				25.9	256.1	153,500*
190				21.1	243.9	147,200*
195				15.0	227.4	141,000*

180 ft Boom

180 ft Luffing Jib

Jib Oper. Rad. Feet	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds
75	74.6	364.2	510,200* ^b			
80	72.9	362.6	473,700* ^b			
85	71.2	360.9	441,700* ^b			
90	69.5	359.0	413,200* ^b			
95	67.8	357.0	387,800*			
100	66.0	354.7	365,000*			
105	64.3	352.3	344,400*	69.7	357.0	317,500* ^b
110	62.5	349.7	325,700*	68.0	355.0	300,000*
115	60.6	346.9	308,600*	66.3	352.8	284,200*
120	58.8	343.8	293,000*	64.5	350.4	269,600*
125	56.9	340.5	278,600*	62.7	347.8	256,200*
130	54.9	337.0	265,300*	60.9	345.0	243,900*
135	52.9	333.2	253,000*	59.0	342.0	232,400*
140	50.9	329.1	241,600*	57.2	338.7	221,800*
145	48.8	324.8	230,900*	55.2	335.2	211,900*
150	46.6	320.0	220,900*	53.2	331.5	202,600*
155	44.3	314.9	211,600*	51.2	327.5	194,000*
160	41.9	309.4	202,800*	49.1	323.1	185,800*
165	39.4	303.4	194,500*	46.9	318.5	178,100*
170	36.8	296.7	186,700*	44.6	313.4	170,900*
175	34.0	289.4	179,200*	42.3	307.9	164,000*
180	30.9	281.2	172,200*	39.8	302.0	157,500*
185	27.5	271.9	165,400*	37.2	295.4	151,400*
190	23.7	260.9	158,900*	34.4	288.2	145,500*
195	19.1	247.4	152,600*	31.4	280.2	139,800*
200	13.0	228.8	146,300*	28.0	271.0	134,400*
205				24.3	260.3	129,100*
210				19.9	247.3	124,000*
215				14.0	229.7	118,800*

Capacities indicated by (b) require
37,000 lb minimum weight
suspended beneath luffing jib point.

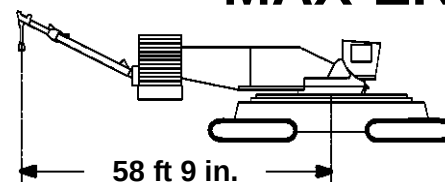
Do not luff into area indicated by
(c) with 37,000 lb minimum weight
(see CAUTION on page 1).

Liftcrane Luffing Jib Capacities

Luffing Jib No. 81 On
Boom No. 80 With 140 ft Mast No. 81
458,700 lb Crane Counterweight
200,000 lb Carbody Counterweight
0 lb Hanging Counterweight
at 58 ft 9 in. Position
Narrow or Wide Crawler Arrangement - 360 Degree Rating

Meets
ANSI B30.5
Requirements

21000
MAX-ER



180 ft Boom
200 ft Luffing Jib

Jib Oper. Rad. Feet	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds
80	74.7	383.6	471,000*(b)			
85	73.2	382.0	438,900*(b)			
90	71.6	380.4	410,500*(b)			
95	70.1	378.5	385,200*			
100	68.6	376.6	362,400*			
105	67.0	374.4	341,800*			
110	65.4	372.1	323,200*			
115	63.8	369.6	306,100*	68.8	374.6	281,100*
120	62.2	367.0	290,500*	67.2	372.5	266,600*
125	60.6	364.2	276,200*	65.7	370.2	253,300*
130	58.9	361.1	262,900*	64.1	367.7	241,000*
135	57.2	357.9	250,700*	62.5	365.1	229,600*
140	55.5	354.5	239,300*	60.8	362.3	219,000*
145	53.7	350.8	228,700*	59.1	359.3	209,200*
150	51.9	346.8	218,800*	57.4	356.1	200,000*
155	50.0	342.6	209,500*	55.7	352.7	191,400*
160	48.1	338.1	200,800*	53.9	349.0	183,300*
165	46.1	333.3	192,600*	52.1	345.1	175,700*
170	44.0	328.2	184,900*	50.3	341.0	168,500*
175	41.9	322.6	177,600*	48.3	336.5	161,700*
180	39.6	316.6	170,700*	46.4	331.8	155,300*
185	37.3	310.1	164,100*	44.3	326.7	149,200*
190	34.8	303.0	157,800*	42.2	321.2	143,500*
195	32.1	295.1	151,800*	40.0	315.2	138,000*
200	29.2	286.4	146,100*	37.6	308.8	132,700*
205	26.0	276.4	140,600*	35.2	301.8	127,700*
210	22.4	264.8	135,300*	32.5	294.0	122,900*
215	18.1	250.5	130,000*	29.7	285.4	118,200*
220	12.3	230.8	124,800*	26.5	275.7	113,700*
225				23.0	264.3	109,400*
230				18.8	250.5	105,000*
235				13.3	231.9	100,700*

180 ft Boom
220 ft Luffing Jib

Jib Oper. Rad. Feet	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds
85	74.7	403.0	435,300*(b)			
90	73.4	401.4	407,000*(b)			
95	72.0	399.8	381,700*			
100	70.6	398.0	358,900*			
105	69.2	396.1	338,400*			
110	67.8	394.0	319,700*			
115	66.4	391.9	302,700*			
120	65.0	389.5	287,200*	69.4	394.1	262,500*
125	63.5	387.0	272,800*	68.0	392.1	249,300*
130	62.0	384.3	259,600*	66.6	389.9	237,000*
135	60.5	381.5	247,400*	65.2	387.6	225,700*
140	59.0	378.5	236,100*	63.7	385.1	215,100*
145	57.5	375.3	225,500*	62.2	382.4	205,300*
150	55.9	371.9	215,600*	60.7	379.6	196,200*
155	54.3	368.3	206,400*	59.2	376.6	187,600*
160	52.6	364.4	197,800*	57.7	373.5	179,600*
165	51.0	360.4	189,600*	56.1	370.1	172,100*
170	49.2	356.1	181,900*	54.5	366.5	164,900*
175	47.5	351.5	174,700*	52.9	362.7	158,200*
180	45.7	346.6	167,800*	51.2	358.7	151,900*
185	43.8	341.4	161,300*	49.5	354.4	145,900*
190	41.8	335.8	155,200*	47.7	349.9	140,200*
195	39.8	329.9	149,300*	45.9	345.0	134,700*
200	37.7	323.4	143,700*	44.1	339.9	129,600*
205	35.5	316.5	138,300*	42.1	334.4	124,600*
210	33.1	308.9	133,200*	40.1	328.5	119,900*
215	30.6	300.6	128,300*	38.0	322.1	115,400*
220	27.8	291.3	123,500*	35.8	315.2	111,000*
225	24.8	280.8	118,900*	33.4	307.7	106,900*
230	21.3	268.5	114,500*	30.9	299.5	102,800*
235	17.2	253.5	110,100*	28.2	290.4	99,000*
240	11.6	232.7	105,600*	25.2	280.1	95,200*
245				21.9	268.1	91,500*
250				17.8	253.6	87,800*

Capacities indicated by (b) require 37,000 lb minimum weight suspended beneath luffing jib point.

Liftcrane Luffing Jib Capacities

21000

MAX-ER

Luffing Jib No. 81 On

Boom No. 80 With 140 ft Mast No. 81

458,700 lb Crane Counterweight

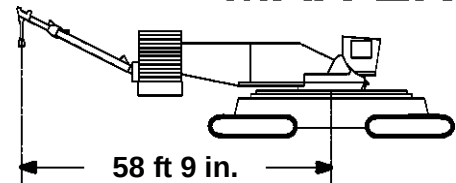
200,000 lb Carbody Counterweight

0 lb Hanging Counterweight

at 58 ft 9 in. Position

Narrow or Wide Crawler Arrangement - 360 Degree Rating

Meets
ANSI B30.5
Requirements



180 ft Boom 240 ft Luffing Jib

Jib Oper. Rad. Feet	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds
90	74.8	422.3	403,800*			
95	73.6	420.8	378,400*			
100	72.3	419.2	355,700*			
105	71.0	417.5	335,200*			
110	69.8	415.6	316,500*			
115	68.5	413.6	299,500*			
120	67.2	411.5	284,000*			
125	65.9	409.3	269,700*	69.9	413.6	245,700*
130	64.5	406.9	256,500*	68.7	411.7	233,500*
135	63.2	404.3	244,300*	67.4	409.6	222,200*
140	61.9	401.6	233,000*	66.1	407.3	211,700*
145	60.5	398.8	222,400*	64.7	405.0	201,900*
150	59.1	395.8	212,600*	63.4	402.4	192,800*
155	57.7	392.6	203,400*	62.1	399.8	184,200*
160	56.2	389.3	194,700*	60.7	396.9	176,200*
165	54.8	385.7	186,600*	59.3	394.0	168,700*
170	53.3	382.0	179,000*	57.9	390.8	161,600*
175	51.8	378.0	171,800*	56.4	387.5	155,000*
180	50.2	373.9	164,900*	55.0	384.0	148,600*
185	48.6	369.5	158,500*	53.5	380.3	142,700*
190	47.0	364.8	152,400*	52.0	376.4	137,000*
195	45.3	359.9	146,500*	50.4	372.2	131,600*
200	43.6	354.6	141,000*	48.9	367.9	126,500*
205	41.8	349.1	135,700*	47.2	363.2	121,600*
210	39.9	343.1	130,600*	45.6	358.3	116,900*
215	38.0	336.8	125,800*	43.8	353.1	112,400*
220	36.0	329.9	121,200*	42.1	347.6	108,200*
225	33.9	322.6	116,700*	40.2	341.7	104,100*
230	31.6	314.5	112,500*	38.3	335.4	100,100*
235	29.2	305.7	108,300*	36.3	328.7	96,400*
240	26.6	296.0	104,300*	34.2	321.4	92,700*
245	23.7	284.9	100,400*	31.9	313.5	89,200*
250	20.4	272.0	96,600*	29.5	304.8	85,800*
260	11.1	234.6	89,000*	24.1	284.3	79,200*
270				17.0	256.5	71,600*

180 ft Boom 260 ft Luffing Jib

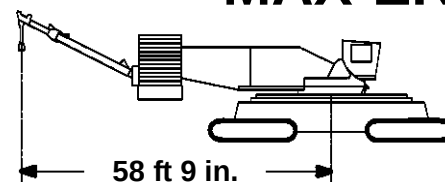
Jib Oper. Rad. Feet	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds
95	74.9	441.7	374,900*			
100	73.7	440.2	352,100*			
105	72.6	438.6	331,600*			
110	71.4	436.9	313,000*			
115	70.2	435.1	296,000*			
120	69.0	433.2	280,500*			
125	67.8	431.1	266,200*			
130	66.6	429.0	253,100*			
135	65.4	426.7	240,900*	69.2	431.2	218,100*
140	64.2	424.2	229,600*	68.0	429.2	207,700*
145	63.0	421.7	219,000*	66.8	427.0	197,900*
150	61.7	419.0	209,200*	65.6	424.7	188,900*
155	60.4	416.1	200,000*	64.4	422.3	180,400*
160	59.2	413.1	191,400*	63.1	419.8	172,400*
165	57.9	410.0	183,300*	61.9	417.1	164,900*
170	56.5	406.7	175,700*	60.6	414.3	157,900*
175	55.2	403.2	168,500*	59.3	411.3	151,200*
180	53.8	399.5	161,700*	58.0	408.2	144,900*
185	52.4	395.7	155,300*	56.7	404.9	139,000*
190	51.0	391.6	149,200*	55.4	401.4	133,300*
195	49.6	387.4	143,400*	54.0	397.8	128,000*
200	48.1	382.9	137,900*	52.6	394.0	122,900*
205	46.6	378.1	132,600*	51.2	389.9	118,000*
210	45.0	373.1	127,600*	49.8	385.7	113,400*
215	43.4	367.9	122,900*	48.3	381.2	109,000*
220	41.8	362.3	118,300*	46.8	376.5	104,800*
225	40.1	356.4	113,900*	45.2	371.6	100,700*
230	38.3	350.1	109,700*	43.6	366.4	96,800*
235	36.4	343.4	105,600*	42.0	360.8	93,100*
240	34.5	336.1	101,700*	40.3	355.0	89,500*
245	32.5	328.4	98,000*	38.5	348.7	86,100*
250	30.3	319.9	94,300*	36.7	342.1	82,700*
260	25.5	300.4	87,400*	32.8	327.2	75,500*
270	19.5	275.4	80,800*	28.3	309.8	68,500*
280	10.6	236.3	74,200*	23.1	288.3	61,700*
290				16.3	259.3	55,100*

Liftcrane Luffing Jib Capacities

Luffing Jib No. 81 On
Boom No. 80 With 140 ft Mast No. 81
458,700 lb Crane Counterweight
200,000 lb Carbody Counterweight
0 lb Hanging Counterweight
at 58 ft 9 in. Position
Narrow or Wide Crawler Arrangement - 360 Degree Rating

Meets
ANSI B30.5
Requirements

**21000
MAX-ER**



180 ft Boom 280 ft Luffing Jib

Jib Oper. Rad. Feet	85 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds
100	74.9	461.1	349,100*
105	73.8	459.6	328,600*
110	72.8	458.0	310,000*
115	71.7	456.4	293,000*
120	70.6	454.6	277,500*
125	69.5	452.7	263,200*
130	68.4	450.7	250,100*
135	67.3	448.6	237,900*
140	66.2	446.4	226,600*
145	65.0	444.0	216,100*
150	63.9	441.6	206,300*
155	62.8	439.0	197,100*
160	61.6	436.3	188,500*
165	60.4	433.4	180,500*
170	59.2	430.5	172,900*
175	58.0	427.3	165,700*
180	56.8	424.0	158,900*
185	55.5	420.6	152,500*
190	54.3	417.0	146,400*
195	53.0	413.2	140,700*
200	51.7	409.3	135,200*
205	50.4	405.1	130,000*
210	49.0	400.8	125,000*
215	47.6	396.2	120,200*
220	46.2	391.4	115,700*
225	44.8	386.4	111,300*
230	43.3	381.1	107,200*
235	41.7	375.5	103,200*
240	40.2	369.6	99,300*
245	38.5	363.4	95,600*
250	36.8	356.7	92,100*
260	33.2	342.1	85,300*
270	29.2	325.1	79,000*
280	24.5	304.7	73,000*
290	18.8	278.6	66,300*
300	10.2	238.0	59,200*

180 ft Boom 300 ft Luffing Jib

Jib Oper. Rad. Feet	85 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds
105	74.9	480.4	325,000*
110	73.9	479.0	306,400*
115	73.0	477.4	289,400*
120	71.9	475.8	273,900*
125	70.9	474.0	259,700*
130	69.9	472.2	246,500*
135	68.9	470.3	234,400*
140	67.9	468.2	223,100*
145	66.8	466.1	212,600*
150	65.8	463.8	202,800*
155	64.7	461.4	193,600*
160	63.6	458.9	185,100*
165	62.6	456.3	177,000*
170	61.5	453.6	169,400*
175	60.4	450.8	162,300*
180	59.3	447.8	155,500*
185	58.1	444.7	149,100*
190	57.0	441.4	143,100*
195	55.9	438.0	137,300*
200	54.7	434.5	131,800*
205	53.5	430.7	126,600*
210	52.3	426.9	121,700*
215	51.1	422.8	116,900*
220	49.8	418.6	112,400*
225	48.5	414.2	108,100*
230	47.2	409.6	104,000*
235	45.9	404.7	100,000*
240	44.5	399.7	96,200*
245	43.2	394.3	92,500*
250	41.7	388.7	89,000*
260	38.7	376.6	82,300*
270	35.5	363.1	76,100*
280	32.0	347.8	69,800*
290	28.1	330.1	63,200*
300	23.6	308.9	56,900*

Liftcrane Luffing Jib Capacities

21000

MAX-ER

Luffing Jib No. 81 On

Boom No. 80 With 140 ft Mast No. 81

458,700 lb Crane Counterweight

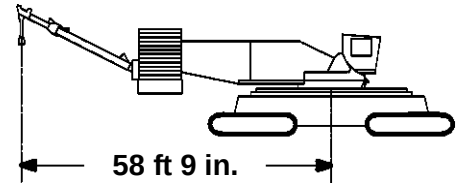
200,000 lb Carbody Counterweight

0 lb Hanging Counterweight

at 58 ft 9 in. Position

Narrow or Wide Crawler Arrangement - 360 Degree Rating

Meets
ANSI B30.5
Requirements



200 ft Boom

120 ft Luffing Jib

Jib Oper. Rad. Feet	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds
60			c			
65			c			
70			c			
75	67.3	320.9	514,700*b			
80	64.6	318.5	478,300*b			
85	61.9	315.8	446,200*b			
90	59.1	312.8	417,700*b			c
95	56.3	309.5	392,300*b	65.9	317.2	361,100*b
100	53.3	305.7	369,400*b	63.3	314.7	340,000*b
105	50.2	301.5	348,600*	60.5	311.8	320,800*b
110	46.9	296.9	329,700*	57.7	308.6	303,400*b
115	43.5	291.6	312,400*	54.8	305.1	287,500*b
120	39.7	285.7	296,500*	51.7	301.1	272,900*
125	35.7	278.8	281,700*	48.5	296.7	259,400*
130	31.2	270.8	268,000*	45.2	291.8	246,900*
135	25.9	260.9	255,000*	41.6	286.2	235,200*
140	19.2	247.9	242,700*	37.7	279.8	224,400*
145	7.5	223.9	229,900*	33.5	272.4	214,100*
150				28.6	263.5	204,400*
155				22.7	252.3	195,100*
160				14.6	236.1	185,800*

200 ft Boom

140 ft Luffing Jib

Jib Oper. Rad. Feet	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds
65			c			
70			c			
75	70.7	342.5	511,800*b			
80	68.5	340.6	475,500*b			
85	66.3	338.3	443,500*b			
90	64.0	335.9	415,200*b			
95	61.7	333.1	389,800*b	69.6	339.1	357,300*b
100	59.3	330.2	367,000*b	67.4	337.0	336,300*b
105	56.8	326.9	346,500*	65.1	334.6	317,300*b
110	54.3	323.3	327,700*	62.8	332.0	300,100*b
115	51.7	319.3	310,600*	60.4	329.1	284,300*b
120	49.0	315.0	294,900*	58.0	326.0	269,900*
125	46.1	310.2	280,400*	55.5	322.6	256,500*
130	43.2	304.9	267,000*	53.0	318.8	244,200*
135	40.0	298.9	254,600*	50.3	314.6	232,800*
140	36.6	292.3	243,000*	47.5	310.1	222,200*
145	32.9	284.7	232,000*	44.6	305.0	212,200*
150	28.7	275.8	221,700*	41.6	299.4	202,900*
155	23.8	265.0	211,900*	38.3	293.1	194,100*
160	17.7	250.9	202,500*	34.7	286.0	185,800*
165	6.8	224.9	192,500*	30.8	277.8	178,000*
170				26.3	268.1	170,400*
175				20.9	255.9	163,100*
180				13.4	238.2	155,700*

Capacities indicated by (b) require
37,000 lb minimum weight
suspended beneath luffing jib point.

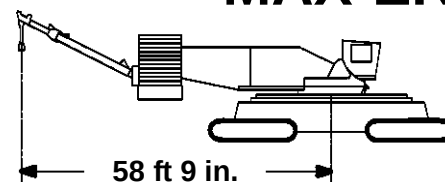
Do not luff into area indicated by
(c) with 37,000 lb minimum weight
(see CAUTION on page 1).

Liftcrane Luffing Jib Capacities

Luffing Jib No. 81 On
Boom No. 80 With 140 ft Mast No. 81
458,700 lb Crane Counterweight
200,000 lb Carbody Counterweight
0 lb Hanging Counterweight
at 58 ft 9 in. Position
Narrow or Wide Crawler Arrangement - 360 Degree Rating

Meets
ANSI B30.5
Requirements

21000
MAX-ER



200 ft Boom 160 ft Luffing Jib

Jib Oper. Rad. Feet	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds
75	73.2	363.7	509,400* b			
80	71.3	362.0	473,100* b			
85	69.4	360.1	441,300* b			
90	67.5	358.0	413,000* b			
95	65.5	355.7	387,800* b			
100	63.5	353.2	365,100*			
105	61.4	350.5	344,600*	68.4	356.6	314,500* b
110	59.4	347.5	325,900*	66.5	354.4	297,400* b
115	57.2	344.2	308,900*	64.5	352.0	281,700* b
120	55.0	340.7	293,300*	62.5	349.3	267,400*
125	52.8	336.9	279,000*	60.4	346.5	254,200*
130	50.5	332.8	265,700*	58.3	343.4	242,000*
135	48.1	328.3	253,400*	56.1	340.0	230,700*
140	45.6	323.4	242,000*	53.9	336.3	220,200*
145	42.9	318.1	231,300*	51.6	332.4	210,400*
150	40.2	312.2	221,300*	49.3	328.1	201,200*
155	37.2	305.7	211,900*	46.8	323.4	192,600*
160	34.1	298.4	203,000*	44.2	318.2	184,500*
165	30.6	290.1	194,600*	41.5	312.6	176,900*
170	26.7	280.5	186,600*	38.7	306.5	169,600*
175	22.2	268.9	178,900*	35.6	299.6	162,800*
180	16.4	253.6	171,400*	32.3	291.8	156,200*
185	6.3	225.7	163,400*	28.7	282.9	150,000*
190				24.5	272.4	143,900*
195				19.5	259.2	138,000*
200				12.4	240.2	132,000*

200 ft Boom 180 ft Luffing Jib

Jib Oper. Rad. Feet	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds
80	73.5	383.1	469,600* b			
85	71.8	381.5	437,800* b			
90	70.1	379.6	409,600* b			
95	68.4	377.6	384,400* b			
100	66.6	375.5	361,800*			
105	64.9	373.1	341,300*			
110	63.1	370.5	322,800*	69.2	376.1	293,300* b
115	61.3	367.8	305,800*	67.5	374.0	277,700*
120	59.4	364.8	290,300*	65.8	371.8	263,500*
125	57.5	361.6	276,000*	64.0	369.3	250,300*
130	55.6	358.2	262,900*	62.2	366.6	238,200*
135	53.6	354.5	250,600*	60.3	363.8	227,000*
140	51.6	350.5	239,300*	58.5	360.7	216,600*
145	49.5	346.3	228,700*	56.6	357.4	206,900*
150	47.4	341.6	218,800*	54.6	353.8	197,800*
155	45.1	336.7	209,600*	52.6	350.0	189,300*
160	42.8	331.3	200,800*	50.5	345.9	181,300*
165	40.3	325.4	192,600*	48.4	341.5	173,800*
170	37.7	319.0	184,900*	46.2	336.7	166,700*
175	35.0	312.0	177,500*	43.9	331.5	160,000*
180	32.0	304.1	170,500*	41.5	325.9	153,600*
185	28.8	295.2	163,800*	39.0	319.7	147,600*
190	25.1	284.9	157,400*	36.3	313.0	141,800*
195	20.8	272.5	151,200*	33.5	305.6	136,300*
200	15.4	256.2	145,000*	30.4	297.2	131,000*
205	5.8	226.5	138,400*	27.0	287.6	125,900*
210				23.0	276.4	120,900*
215				18.3	262.3	116,000*
220				11.7	242.1	111,000*

Capacities indicated by **(b)** require 37,000 lb minimum weight suspended beneath luffing jib point.

Liftcrane Luffing Jib Capacities

21000

MAX-ER

Luffing Jib No. 81 On

Boom No. 80 With 140 ft Mast No. 81

458,700 lb Crane Counterweight

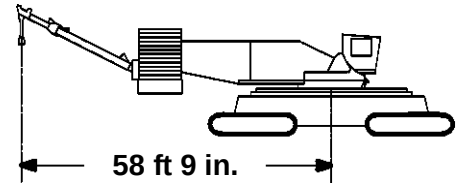
200,000 lb Carbody Counterweight

0 lb Hanging Counterweight

at 58 ft 9 in. Position

Narrow or Wide Crawler Arrangement - 360 Degree Rating

Meets
ANSI B30.5
Requirements



200 ft Boom

200 ft Luffing Jib

Jib Oper. Rad. Feet	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds
85	73.7	402.5	435,000* b			
90	72.2	400.9	406,800* b			
95	70.7	399.1	381,700* b			
100	69.1	397.2	359,100*			
105	67.6	395.1	338,700*			
110	66.0	392.9	320,200*			
115	64.4	390.5	303,300*	69.9	395.6	274,500*
120	62.8	387.9	287,800*	68.3	393.6	260,300*
125	61.2	385.1	273,600*	66.8	391.5	247,300*
130	59.5	382.1	260,400*	65.2	389.1	235,200*
135	57.8	379.0	248,300*	63.6	386.6	224,000*
140	56.1	375.6	237,000*	62.0	384.0	213,700*
145	54.3	372.0	226,500*	60.3	381.1	204,000*
150	52.5	368.2	216,700*	58.6	378.0	195,000*
155	50.6	364.0	207,500*	56.9	374.8	186,600*
160	48.7	359.7	198,800*	55.2	371.3	178,700*
165	46.8	355.0	190,700*	53.4	367.6	171,200*
170	44.7	349.9	183,000*	51.6	363.6	164,200*
175	42.6	344.5	175,800*	49.7	359.3	157,500*
180	40.4	338.7	168,900*	47.7	354.8	151,300*
185	38.1	332.4	162,400*	45.7	349.9	145,300*
190	35.7	325.5	156,200*	43.7	344.7	139,700*
195	33.1	317.9	150,300*	41.5	339.1	134,300*
200	30.3	309.5	144,600*	39.3	333.0	129,100*
205	27.2	300.0	139,200*	36.9	326.4	124,200*
210	23.8	289.0	133,900*	34.4	319.2	119,500*
215	19.7	275.8	128,800*	31.7	311.2	115,000*
220	14.6	258.6	123,600*	28.7	302.3	110,600*
225	5.5	227.3	118,100*	25.5	292.1	106,300*
230				21.8	280.1	102,200*
235				17.3	265.3	98,100*
240				11.0	243.9	93,800*

200 ft Boom

220 ft Luffing Jib

Jib Oper. Rad. Feet	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds
90	73.8	421.9	403,200* b			
95	72.5	420.3	378,100*			
100	71.1	418.6	355,500*			
105	69.7	416.7	335,100*			
110	68.3	414.7	316,600*			
115	66.9	412.6	299,800*			
120	65.5	410.3	284,300*			
125	64.0	407.8	270,200*	69.0	413.2	243,100*
130	62.5	405.2	257,100*	67.6	411.1	231,100*
135	61.1	402.4	244,900*	66.2	408.9	220,000*
140	59.5	399.5	233,700*	64.7	406.5	209,700*
145	58.0	396.3	223,200*	63.3	404.0	200,100*
150	56.4	393.0	213,400*	61.8	401.3	191,100*
155	54.8	389.5	204,300*	60.3	398.4	182,700*
160	53.2	385.7	195,700*	58.8	395.4	174,900*
165	51.6	381.7	187,600*	57.2	392.1	167,500*
170	49.8	377.5	180,000*	55.6	388.7	160,500*
175	48.1	373.0	172,800*	54.0	385.1	153,900*
180	46.3	368.3	166,000*	52.4	381.2	147,700*
185	44.4	363.2	159,600*	50.7	377.1	141,800*
190	42.5	357.7	153,500*	49.0	372.8	136,200*
195	40.5	351.9	147,600*	47.2	368.1	130,900*
200	38.4	345.7	142,100*	45.4	363.2	125,800*
205	36.2	338.9	136,800*	43.5	358.0	121,000*
210	33.9	331.5	131,700*	41.5	352.3	116,400*
215	31.5	323.5	126,800*	39.5	346.3	112,000*
220	28.8	314.6	122,100*	37.3	339.8	107,700*
225	25.9	304.5	117,600*	35.1	332.7	103,600*
230	22.6	293.0	113,200*	32.7	325.0	99,700*
235	18.7	279.1	108,900*	30.1	316.5	95,900*
240	13.8	260.9	104,500*	27.3	307.1	92,200*
245	5.2	228.1	99,800*	24.2	296.3	88,600*
250				20.7	283.7	85,100*
260				10.4	245.6	77,800*

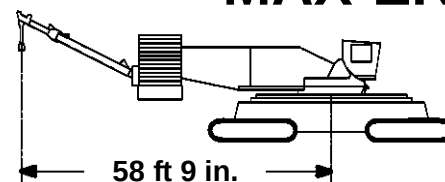
Capacities indicated by **(b)** require 37,000 lb minimum weight suspended beneath luffing jib point.

Liftcrane Luffing Jib Capacities

Luffing Jib No. 81 On
Boom No. 80 With 140 ft Mast No. 81
458,700 lb Crane Counterweight
200,000 lb Carbody Counterweight
0 lb Hanging Counterweight
at 58 ft 9 in. Position
Narrow or Wide Crawler Arrangement - 360 Degree Rating

Meets
ANSI B30.5
Requirements

**21000
MAX-ER**



200 ft Boom 240 ft Luffing Jib

Jib Oper. Rad. Feet	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds	Jib Ang. Deg.	Jib Point Elev. Feet	Luffing Jib Capacity Pounds
95	74.0	441.3	374,800*			
100	72.7	439.7	352,200*			
105	71.5	438.0	331,900*			
110	70.2	436.2	313,400*			
115	68.9	434.3	296,600*			
120	67.6	432.2	281,100*			
125	66.3	430.0	267,000*			
130	65.0	427.6	253,900*	69.6	432.7	227,500*
135	63.7	425.2	241,800*	68.3	430.7	216,400*
140	62.3	422.5	230,500*	67.0	428.6	206,100*
145	61.0	419.7	220,100*	65.7	426.3	196,500*
150	59.6	416.8	210,300*	64.3	423.9	187,600*
155	58.2	413.7	201,200*	63.0	421.3	179,200*
160	56.7	410.4	192,600*	61.6	418.6	171,400*
165	55.3	406.9	184,600*	60.3	415.7	164,000*
170	53.8	403.2	177,000*	58.9	412.7	157,100*
175	52.3	399.4	169,800*	57.4	409.5	150,600*
180	50.8	395.3	163,100*	56.0	406.1	144,400*
185	49.2	391.0	156,700*	54.5	402.6	138,500*
190	47.6	386.4	150,600*	53.0	398.8	133,000*
195	45.9	381.6	144,800*	51.5	394.8	127,700*
200	44.2	376.4	139,300*	50.0	390.6	122,700*
205	42.4	371.0	134,100*	48.4	386.2	117,900*
210	40.6	365.2	129,100*	46.7	381.5	113,300*
215	38.7	359.0	124,300*	45.0	376.5	108,900*
220	36.7	352.3	119,700*	43.3	371.2	104,800*
225	34.6	345.1	115,300*	41.5	365.5	100,700*
230	32.4	337.3	111,100*	39.6	359.5	96,900*
235	30.1	328.8	107,000*	37.7	353.1	93,200*
240	27.5	319.4	103,000*	35.7	346.2	89,600*
245	24.7	308.9	99,200*	33.5	338.7	86,200*
250	21.6	296.7	95,400*	31.2	330.6	82,800*
260	13.2	263.1	88,000*	26.1	311.7	75,900*
270				19.8	287.1	68,600*
280				10.0	247.2	61,100*