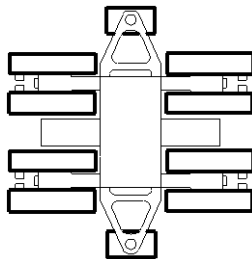


Liftcrane Luffing Jib Capacities

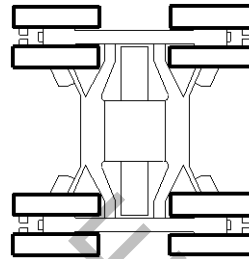
21000
MAX-ER

Luffing Jib No. 81 On
Boom No. 80 With 42,7 m Mast No. 81
208 060 kg Crane Counterweight
90 720 kg Carbody Counterweight
0 kg Hanging Counterweight
at 18 m Position
Narrow or Wide Crawler Arrangement - 360 Degree Rating

Meets
ANSI B30.5
Requirements



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



18 m
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 16 780 kg minimum weight suspended beneath luffing jib point.

Caution: Do not luff into area indicated by (c) with **16 780 kg 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 22 130 kg or 44 270 kg 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 13 mm in 3 m 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 (9,1 m) 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 (14,5 m) 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 (9,1m) travel allowed only with upperworks centered over front or rear of lowerworks (no swing) with outrigger jacks retracted or outriggers removed.

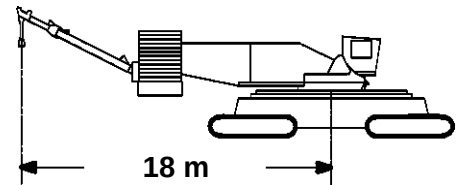
Wide Crawler Arrangement: Wide crawler arrangement (14,5m) travel allowed with 360 degree rating.

Liftcrane Luffing Jib Capacities

21000
MAX-ER

Luffing Jib No. 81 On
Boom No. 80 With 42,7 m Mast No. 81
208 060 kg Crane Counterweight
90 720 kg Carbody Counterweight
0 kg Hanging Counterweight
at 18 m 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 4 978 mm crawlers, 1 219 mm treads, 42,7 m mast, 8 534 mm retractable gantry, 20 part boom hoist reeving,

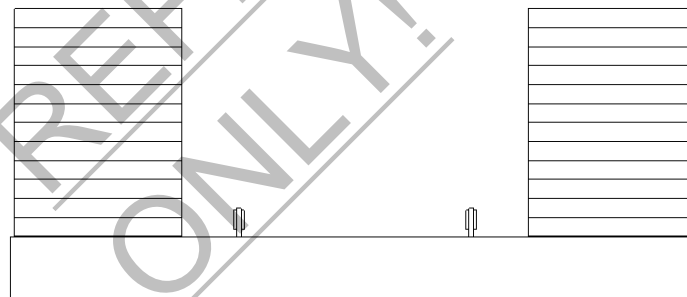
boom support straps, 22 part luffing jib hoist reeving, luffing jib and backstay support straps, 208 060 kg crane counterweight, two 24 270 kg and two 21 090 kg carbody counterweights and 0 kg hanging counterweight.

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

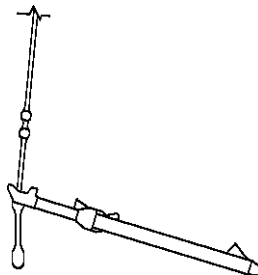
Warning: Narrow crawler arrangement requires set outrigger jacks to swing beyond front or rear operating range.

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.



208 060 kg Crane Counterweight
24 Side Boxes



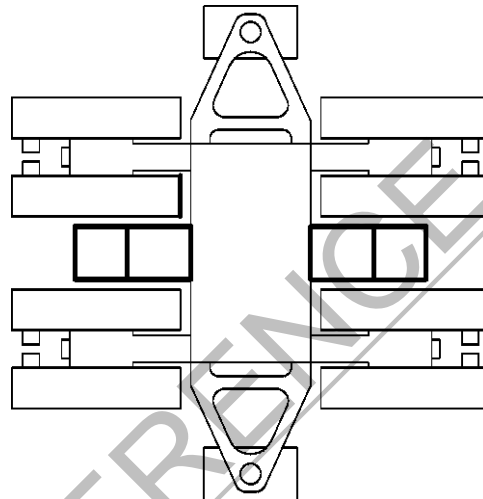
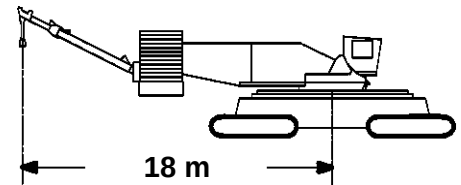
0 kg Hanging Counterweight

Liftcrane Luffing Jib Capacities

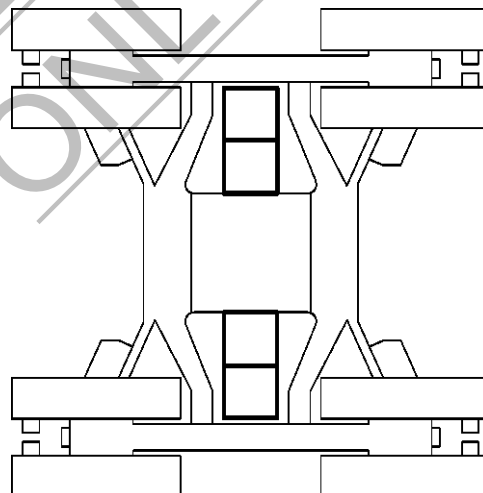
Luffing Jib No. 81 On
Boom No. 80 With 42,7 m Mast No. 81
208 060 kg Crane Counterweight
90 720 kg Carbody Counterweight
0 kg Hanging Counterweight
at 18 m Position
Narrow or Wide Crawler Arrangement - 360 Degree Rating

Meets
ANSI B30.5
Requirements

**21000
MAX-ER**



90 720 kg Carbody Counterweight
2 Inner Boxes - 2 Outer Boxes
Narrow Crawler Arrangement



90 720 kg 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 42,7 m Mast No. 81

208 060 kg Crane Counterweight

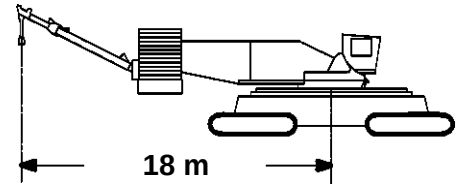
90 720 kg Carbody Counterweight

0 kg Hanging Counterweight

at 18 m 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 kg Hanging Counterweight		
Boom Length Meters	Luffing Jib No. 81 Meters	Boom to Luffing Jib Angle Degrees
Over End of Blocked Crawlers		
54,9	36,6 - 91,4	60
61,0	36,6 - 73,2	60
Over End of Unblocked Crawlers		
54,9	36,6 - 91,4	60
61,0	36,6 - 48,8	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.

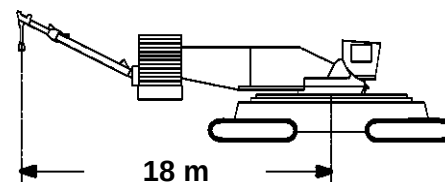
CAUTION: Do not under any condition allow boom to luffing jib angle to become less than

Liftcrane Luffing Jib Capacities

Luffing Jib No. 81 On
Boom No. 80 With 42,7 m Mast No. 81
208 060 kg Crane Counterweight
90 720 kg Carbody Counterweight
0 kg Hanging Counterweight
at 18 m Position
Narrow or Wide Crawler Arrangement - 360 Degree Rating

Meets
ANSI B30.5
Requirements

21000
MAX-ER



60 degrees.

54,9 m (180 ft) Boom
36,6 m (120 ft) Luffing Jib

Jib Oper. Rad. m	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms
18,3			c			
20,0			c			
22,0			c			
24,0	64,4	90,9	222 800*b			
26,0	60,8	89,8	203 100*b			c
28,0	57,1	88,6	186 400*b	65,8	90,6	173 900*b
30,0	53,2	87,1	172 000*	62,2	89,6	160 200*b
32,0	49,1	85,4	159 300*	58,6	88,4	148 400*b
34,0	44,7	83,4	148 100*	54,7	87,0	138 000*b
36,0	39,9	81,1	138 100*	50,7	85,4	128 700*
38,0	34,5	78,3	129 100*	46,4	83,5	120 400*
40,0	28,1	74,7	120 900*	41,8	81,3	112 800*
42,0	19,9	69,9	113 200*	36,7	78,7	106 000*
44,0				30,8	75,6	99 600*
46,0				23,5	71,4	93 700*

54,9 m (180 ft) Boom
42,7 m (140 ft) Luffing Jib

Jib Oper. Rad. m	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms
19,8			c			
20,0			c			
22,0			c			
24,0	68,3	97,7	221 500*b			
26,0	65,3	96,7	201 900*b			
28,0	62,3	95,7	185 300*b			
30,0	59,2	94,5	171 000*	66,5	96,4	158 800*b
32,0	56,0	93,2	158 400*	63,5	95,4	147 000*b
34,0	52,6	91,7	147 400*	60,4	94,3	136 600*b
36,0	49,1	90,0	137 500*	57,2	93,0	127 500*
38,0	45,3	88,0	128 600*	53,9	91,6	119 200*
40,0	41,3	85,8	120 700*	50,5	90,0	111 800*
42,0	36,9	83,2	113 400*	46,8	88,1	105 100*
44,0	32,0	80,1	106 700*	42,9	86,0	98 900*
46,0	26,2	76,3	100 500*	38,7	83,6	93 300*
48,0	18,8	71,2	94 600*	34,0	80,7	88 000*
50,0				28,6	77,3	83 100*
52,0				22,0	72,8	78 500*

Capacities indicated by (b) require
16 780 kg minimum weight
suspended beneath luffing jib point.

Do not luff into area indicated by
(c) with 16 780 kg minimum
weight (see CAUTION on page 1).

Liftcrane Luffing Jib Capacities

21000

MAX-ER

Luffing Jib No. 81 On

Boom No. 80 With 42,7 m Mast No. 81

208 060 kg Crane Counterweight

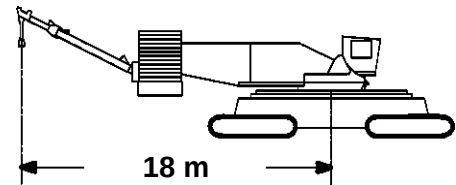
90 720 kg Carbody Counterweight

0 kg Hanging Counterweight

at 18 m Position

Narrow or Wide Crawler Arrangement - 360 Degree Rating

Meets
ANSI B30.5
Requirements



54,9 m (180 ft) Boom 48,8 m (160 ft) Luffing Jib

Jib Oper. Rad. m	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms
21,3			c			
22,0			c			
24,0	71,1	104,2	220 500*b			
26,0	68,6	103,4	201 000*b			
28,0	66,0	102,6	184 400*b			
30,0	63,4	101,6	170 100*			
32,0	60,7	100,4	157 600*	67,1	102,2	145 800*b
34,0	58,0	99,2	146 600*	64,5	101,3	135 500*b
36,0	55,1	97,8	136 800*	61,8	100,2	126 400*
38,0	52,1	96,3	128 000*	59,1	99,0	118 200*
40,0	49,1	94,6	120 100*	56,2	97,7	110 900*
42,0	45,8	92,7	113 000*	53,3	96,2	104 200*
44,0	42,3	90,5	106 400*	50,3	94,6	98 100*
46,0	38,6	88,1	100 400*	47,1	92,7	92 600*
48,0	34,6	85,2	94 900*	43,7	90,7	87 500*
50,0	30,0	81,9	89 700*	40,1	88,4	82 700*
52,0	24,7	77,8	84 900*	36,2	85,7	78 300*
54,0	17,9	72,4	80 300*	31,9	82,6	74 200*
56,0				26,9	78,9	70 300*
58,0				20,8	74,1	66 600*

54,9 m (180 ft) Boom 54,9 m (180 ft) Luffing Jib

Jib Oper. Rad. m	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms
22,9	74,6	111,0	231 400*b			
24,0	73,3	110,7	219 000*b			
26,0	71,1	110,0	199 500*b			
28,0	68,9	109,2	182 900*b			
30,0	66,6	108,3	168 600*			
32,0	64,3	107,4	156 200*	69,7	108,8	144 000*b
34,0	61,9	106,3	145 200*	67,5	108,0	133 700*
36,0	59,5	105,2	135 400*	65,2	107,1	124 700*
38,0	57,0	103,9	126 700*	62,9	106,1	116 500*
40,0	54,4	102,4	118 900*	60,5	104,9	109 300*
42,0	51,8	100,9	111 800*	58,0	103,7	102 600*
44,0	49,0	99,2	105 300*	55,5	102,3	96 600*
46,0	46,2	97,3	99 300*	52,9	100,8	91 100*
48,0	43,1	95,2	93 900*	50,1	99,2	86 100*
50,0	39,9	92,8	88 900*	47,3	97,3	81 400*
52,0	36,5	90,2	84 200*	44,4	95,3	77 100*
54,0	32,7	87,2	79 800*	41,2	93,1	73 000*
56,0	28,4	83,6	75 800*	37,9	90,6	69 300*
58,0	23,5	79,3	71 900*	34,2	87,7	65 800*
60,0	17,1	73,6	68 100*	30,2	84,4	62 400*
62,0				25,5	80,4	59 300*
64,0				19,9	75,4	56 200*

Capacities indicated by (b) require
16 780 kg minimum weight
suspended beneath luffing jib point.

Do not luff into area indicated by
(c) with 16 780 kg minimum
weight (see CAUTION on page 1).

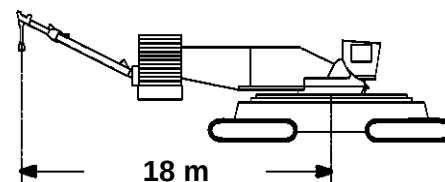
Liftcrane Luffing Jib Capacities

Luffing Jib No. 81 On
Boom No. 80 With 42,7 m Mast No. 81
208 060 kg Crane Counterweight
90 720 kg Carbody Counterweight
0 kg Hanging Counterweight
at 18 m Position

Meets
ANSI B30.5
Requirements

Narrow or Wide Crawler Arrangement - 360 Degree Rating

21000
MAX-ER



54,9 m (180 ft) Boom
61,0 m (200 ft) Luffing Jib

Jib Oper. Rad. m	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms
24,4	74,7	116,9	213 600* b			
26,0	73,1	116,4	198 200* b			
28,0	71,1	115,7	181 700* b			
30,0	69,1	115,0	167 500*			
32,0	67,0	114,1	155 000*			
34,0	65,0	113,2	144 100*			
36,0	62,8	112,2	134 300*	67,8	113,8	123 400*
38,0	60,7	111,1	125 600*	65,8	112,9	115 200*
40,0	58,5	109,8	117 800*	63,7	111,9	108 000*
42,0	56,2	108,5	110 700*	61,5	110,8	101 400*
44,0	53,9	107,1	104 300*	59,4	109,6	95 400*
46,0	51,5	105,5	98 400*	57,1	108,3	89 900*
48,0	49,0	103,8	93 000*	54,8	106,9	84 900*
50,0	46,5	101,9	88 000*	52,5	105,4	80 300*
52,0	43,8	99,8	83 400*	50,0	103,8	76 000*
54,0	40,9	97,6	79 100*	47,5	101,9	72 000*
56,0	37,9	95,0	75 100*	44,8	100,0	68 300*
58,0	34,6	92,2	71 400*	42,1	97,8	64 900*
60,0	31,1	89,0	67 800*	39,1	95,4	61 600*
62,0	27,1	85,3	64 500*	36,0	92,7	58 600*
64,0	22,4	80,7	61 300*	32,5	89,6	55 700*
66,0	16,5	74,8	58 200*	28,7	86,1	52 900*
68,0				24,4	81,9	50 300*
70,0				19,1	76,7	47 700*

54,9 m (180 ft) Boom
67,1 m (220 ft) Luffing Jib

Jib Oper. Rad. m	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms
25,9	74,7	122,8	197 400* b			
26,0	74,7	122,8	196 600* b			
28,0	72,9	122,2	180 100* b			
30,0	71,1	121,5	165 900*			
32,0	69,2	120,7	153 500*			
34,0	67,4	119,9	142 500*			
36,0	65,5	119,0	132 800*			
38,0	63,6	118,0	124 100*	68,1	119,6	113 400*
40,0	61,7	116,9	116 300*	66,2	118,7	106 100*
42,0	59,7	115,8	109 300*	64,4	117,7	99 600*
44,0	57,7	114,5	102 800*	62,4	116,7	93 600*
46,0	55,6	113,1	97 000*	60,5	115,5	88 200*
48,0	53,5	111,7	91 600*	58,5	114,3	83 200*
50,0	51,3	110,1	86 600*	56,4	113,0	78 600*
52,0	49,0	108,4	82 100*	54,3	111,6	74 400*
54,0	46,7	106,5	77 800*	52,2	110,0	70 400*
56,0	44,3	104,5	73 800*	49,9	108,4	66 800*
58,0	41,7	102,3	70 200*	47,6	106,6	63 400*
60,0	39,0	99,8	66 700*	45,2	104,6	60 200*
62,0	36,2	97,2	63 400*	42,7	102,5	57 200*
64,0	33,1	94,2	60 400*	40,1	100,1	54 300*
66,0	29,7	90,8	57 500*	37,3	97,6	51 700*
68,0	26,0	86,8	54 700*	34,3	94,7	49 100*
70,0	21,6	82,1	52 000*	31,1	91,5	46 700*
72,0	16,0	75,9	49 400*	27,5	87,8	44 400*
74,0				23,4	83,4	42 200*
76,0				18,4	77,9	40 000*

Capacities indicated by **(b)** require 16 780 kg minimum weight suspended beneath luffing jib point.

Liftcrane Luffing Jib Capacities

21000

MAX-ER

Luffing Jib No. 81 On

Boom No. 80 With 42,7 m Mast No. 81

208 060 kg Crane Counterweight

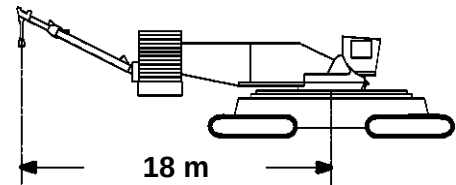
90 720 kg Carbody Counterweight

0 kg Hanging Counterweight

at 18 m Position

Narrow or Wide Crawler Arrangement - 360 Degree Rating

Meets
ANSI B30.5
Requirements



54,9 m (180 ft) Boom 73,2 m (240 ft) Luffing Jib

Jib Oper. Rad. m	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms
27,4	74,8	128,7	183 100*			
28,0	74,3	128,6	178 800*			
30,0	72,7	127,9	164 400*			
32,0	71,0	127,2	152 000*			
34,0	69,4	126,5	141 000*			
36,0	67,7	125,7	131 300*			
38,0	66,0	124,8	122 700*			
40,0	64,2	123,8	114 900*	68,3	125,3	104 600*
42,0	62,5	122,8	107 800*	66,6	124,4	98 000*
44,0	60,7	121,7	101 400*	64,9	123,5	92 100*
46,0	58,8	120,5	95 600*	63,2	122,5	86 700*
48,0	57,0	119,2	90 200*	61,4	121,4	81 700*
50,0	55,1	117,8	85 300*	59,6	120,2	77 100*
52,0	53,1	116,3	80 700*	57,7	119,0	72 900*
54,0	51,1	114,7	76 500*	55,8	117,7	69 000*
56,0	49,0	113,0	72 600*	53,9	116,2	65 300*
58,0	46,9	111,1	68 900*	51,9	114,6	61 900*
60,0	44,7	109,1	65 500*	49,9	113,0	58 800*
62,0	42,4	106,9	62 300*	47,7	111,2	55 800*
64,0	40,0	104,6	59 200*	45,6	109,2	53 000*
66,0	37,4	102,0	56 400*	43,3	107,1	50 300*
68,0	34,7	99,2	53 700*	40,9	104,8	47 900*
70,0	31,8	96,0	51 100*	38,4	102,4	45 500*
72,0	28,6	92,5	48 600*	35,8	99,7	43 300*
74,0	25,0	88,4	46 300*	32,9	96,6	41 100*
76,0	20,8	83,5	44 000*	29,9	93,2	39 100*
80,0				22,6	84,8	35 100*

54,9 m (180 ft) Boom 79,2 m (260 ft) Luffing Jib

Jib Oper. Rad. m	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms
29,0	74,9	134,6	170 000*			
30,0	74,1	134,3	162 900*			
32,0	72,6	133,7	150 400*			
34,0	71,0	133,0	139 500*			
36,0	69,5	132,3	129 800*			
38,0	67,9	131,4	121 100*			
40,0	66,3	130,6	113 400*			
42,0	64,7	129,6	106 300*	68,5	131,1	96 200*
44,0	63,1	128,6	99 900*	67,0	130,2	90 300*
46,0	61,5	127,5	94 100*	65,4	129,3	84 900*
48,0	59,8	126,4	88 700*	63,8	128,3	79 900*
50,0	58,1	125,1	83 800*	62,1	127,3	75 400*
52,0	56,4	123,8	79 200*	60,5	126,2	71 200*
54,0	54,6	122,4	75 000*	58,8	124,9	67 300*
56,0	52,8	120,9	71 100*	57,1	123,7	63 700*
58,0	50,9	119,3	67 500*	55,3	122,3	60 300*
60,0	49,0	117,6	64 100*	53,5	120,8	57 100*
62,0	47,1	115,7	60 900*	51,7	119,2	54 200*
64,0	45,0	113,7	57 800*	49,8	117,6	51 400*
66,0	42,9	111,6	55 100*	47,8	115,8	48 800*
68,0	40,7	109,3	52 400*	45,8	113,8	46 300*
70,0	38,4	106,8	49 800*	43,8	111,8	44 000*
72,0	36,0	104,1	47 400*	41,6	109,6	41 800*
74,0	33,4	101,2	45 100*	39,3	107,2	39 700*
76,0	30,6	97,9	42 900*	37,0	104,5	37 700*
80,0	24,1	89,9	38 800*	31,7	98,5	33 400*
84,0	15,2	78,2	34 900*	25,5	91,0	29 300*
88,0				17,4	80,4	25 300*

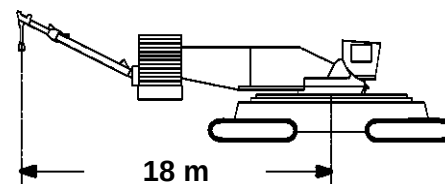
Liftcrane Luffing Jib Capacities

Luffing Jib No. 81 On
Boom No. 80 With 42,7 m Mast No. 81
208 060 kg Crane Counterweight
90 720 kg Carbody Counterweight
0 kg Hanging Counterweight
at 18 m Position

Meets
ANSI B30.5
Requirements

Narrow or Wide Crawler Arrangement - 360 Degree Rating

**21000
MAX-ER**



**54,9 m (180 ft) Boom
85,3 m (280 ft) Luffing Jib**

Jib Oper. Rad. m	85 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms
30,5	74,9	140,5	158 300*
32,0	73,8	140,1	149 000*
34,0	72,4	139,4	138 100*
36,0	71,0	138,8	128 400*
38,0	69,6	138,0	119 700*
40,0	68,1	137,2	112 000*
42,0	66,7	136,4	104 900*
44,0	65,2	135,4	98 600*
46,0	63,7	134,4	92 700*
48,0	62,2	133,4	87 400*
50,0	60,6	132,3	82 500*
52,0	59,1	131,1	78 000*
54,0	57,5	129,8	73 800*
56,0	55,9	128,5	69 800*
58,0	54,2	127,0	66 200*
60,0	52,5	125,5	62 800*
62,0	50,8	123,9	59 700*
64,0	49,0	122,2	56 700*
66,0	47,2	120,3	53 800*
68,0	45,3	118,4	51 200*
70,0	43,4	116,3	48 700*
72,0	41,4	114,0	46 300*
74,0	39,3	111,6	44 000*
76,0	37,0	109,0	41 900*
80,0	32,2	103,1	37 900*
84,0	26,7	95,8	34 200*
88,0	19,6	86,1	30 400*

**54,9 m (180 ft) Boom
91,4 m (300 ft) Luffing Jib**

Jib Oper. Rad. m	85 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms
32,0	74,9	146,4	147 400*
34,0	73,6	145,9	136 500*
36,0	72,3	145,2	126 800*
38,0	71,0	144,5	118 200*
40,0	69,7	143,8	110 400*
42,0	68,3	143,0	103 400*
44,0	67,0	142,1	97 000*
46,0	65,6	141,2	91 200*
48,0	64,2	140,3	85 800*
50,0	62,8	139,2	80 900*
52,0	61,4	138,1	76 400*
54,0	59,9	137,0	72 200*
56,0	58,4	135,8	68 300*
58,0	56,9	134,5	64 700*
60,0	55,4	133,1	61 300*
62,0	53,9	131,6	58 100*
64,0	52,3	130,1	55 200*
66,0	50,7	128,5	52 300*
68,0	49,0	126,8	49 700*
70,0	47,3	124,9	47 200*
72,0	45,6	123,0	44 900*
74,0	43,8	120,9	42 600*
76,0	41,9	118,7	40 500*
80,0	38,0	113,8	36 600*
84,0	33,6	108,1	32 900*
88,0	28,7	101,3	29 000*

Liftcrane Luffing Jib Capacities

21000

MAX-ER

Luffing Jib No. 81 On

Boom No. 80 With 42,7 m Mast No. 81

208 060 kg Crane Counterweight

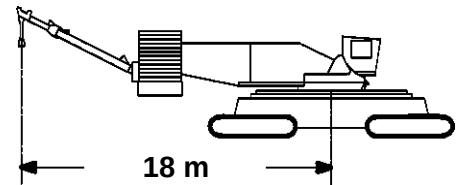
90 720 kg Carbody Counterweight

0 kg Hanging Counterweight

at 18 m Position

Narrow or Wide Crawler Arrangement - 360 Degree Rating

Meets
ANSI B30.5
Requirements



61,0 m (200 ft) Boom 36,6 m (120 ft) Luffing Jib

Jib Oper. Rad. m	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms
18,3			c			
20,0			c			
22,0			c			
24,0	65,3	97,3	221 100*b			
26,0	61,8	96,2	201 500*b			
28,0	58,1	95,0	185 000*b			c
30,0	54,2	93,6	170 700*b	64,1	96,2	157 200*b
32,0	50,2	91,9	158 100*	60,5	95,1	145 500*b
34,0	45,9	90,0	147 000*	56,8	93,7	135 300*b
36,0	41,2	87,8	137 100*	52,9	92,3	126 200*
38,0	36,0	85,1	128 200*	48,7	90,5	118 000*
40,0	30,0	81,8	120 000*	44,3	88,5	110 600*
42,0	22,4	77,5	112 500*	39,5	86,2	103 800*
44,0	10,0	69,8	105 000*	34,0	83,3	97 700*
46,0				27,6	79,8	91 900*
48,0				19,2	74,8	86 400*

61,0 m (200 ft) Boom 42,7 m (140 ft) Luffing Jib

Jib Oper. Rad. m	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms
19,8			c			
20,0			c			
22,0			c			
24,0	69,1	104,0	219 800*b			
26,0	66,1	103,1	200 300*b			
28,0	63,1	102,1	183 800*b			
30,0	60,0	100,9	169 500*b	68,1	102,9	155 500*b
32,0	56,8	99,6	157 100*	65,1	102,0	143 900*b
34,0	53,5	98,2	146 100*	62,1	100,9	133 800*b
36,0	50,0	96,5	136 300*	58,9	99,7	124 800*
38,0	46,3	94,6	127 600*	55,7	98,4	116 700*
40,0	42,4	92,5	119 600*	52,3	96,9	109 400*
42,0	38,1	90,0	112 400*	48,8	95,1	102 800*
44,0	33,4	87,1	105 800*	45,0	93,2	96 800*
46,0	27,9	83,5	99 700*	41,0	90,9	91 200*
48,0	21,0	78,8	93 900*	36,6	88,3	86 100*
50,0	10,0	70,9	88 200*	31,6	85,2	81 300*
52,0				25,7	81,3	76 800*
54,0				18,1	76,0	72 500*

Capacities indicated by **(b)** require
16 780 kg minimum weight
suspended beneath luffing jib point.

Do not luff into area indicated by
(c) with 16 780 kg minimum
weight (see CAUTION on page 1).

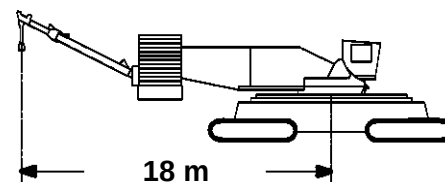
Liftcrane Luffing Jib Capacities

Luffing Jib No. 81 On
Boom No. 80 With 42,7 m Mast No. 81
208 060 kg Crane Counterweight
90 720 kg Carbody Counterweight
0 kg Hanging Counterweight
at 18 m Position

Meets
ANSI B30.5
Requirements

Narrow or Wide Crawler Arrangement - 360 Degree Rating

21000
MAX-ER



61,0 m (200 ft) Boom
48,8 m (160 ft) Luffing Jib

Jib Oper. Rad. m	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms
22,9	73,2	110,9	231 000* b			
24,0	71,8	110,5	218 700* b			
26,0	69,3	109,7	199 300* b			
28,0	66,7	108,9	182 900* b			
30,0	64,1	107,9	168 700*			
32,0	61,5	106,8	156 300*	68,4	108,7	142 600* b
34,0	58,7	105,6	145 300*	65,8	107,8	132 600* b
36,0	55,9	104,3	135 600*	63,2	106,8	123 600*
38,0	52,9	102,8	126 900*	60,5	105,7	115 600*
40,0	49,9	101,1	119 100*	57,8	104,4	108 400*
42,0	46,7	99,2	111 900*	54,9	103,0	101 900*
44,0	43,3	97,2	105 500*	51,9	101,5	95 900*
46,0	39,6	94,8	99 500*	48,8	99,7	90 500*
48,0	35,7	92,1	94 000*	45,5	97,8	85 500*
50,0	31,3	88,9	88 900*	42,1	95,6	80 800*
52,0	26,2	85,1	84 200*	38,3	93,2	76 500*
54,0	19,9	80,1	79 600*	34,3	90,3	72 500*
56,0	10,0	72,0	75 000*	29,7	87,0	68 700*
58,0				24,3	82,8	65 100*
60,0				17,2	77,2	61 500*

61,0 m (200 ft) Boom
54,9 m (180 ft) Luffing Jib

Jib Oper. Rad. m	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms
24,4	73,5	116,8	213 000* b			
26,0	71,7	116,2	197 700* b			
28,0	69,5	115,5	181 300* b			
30,0	67,2	114,7	167 200*			
32,0	64,9	113,7	154 800*			
34,0	62,5	112,7	143 900*	68,7	114,4	130 800* b
36,0	60,1	111,5	134 200*	66,4	113,6	121 800*
38,0	57,7	110,3	125 600*	64,1	112,6	113 900*
40,0	55,1	108,9	117 800*	61,7	111,5	106 700*
42,0	52,5	107,4	110 700*	59,3	110,4	100 200*
44,0	49,8	105,7	104 300*	56,8	109,1	94 300*
46,0	46,9	103,9	98 400*	54,2	107,6	88 900*
48,0	44,0	101,8	93 000*	51,6	106,1	84 000*
50,0	40,8	99,5	88 000*	48,8	104,3	79 400*
52,0	37,4	97,0	83 400*	45,9	102,4	75 200*
54,0	33,7	94,1	79 100*	42,9	100,3	71 300*
56,0	29,6	90,7	75 000*	39,7	97,9	67 600*
58,0	24,9	86,6	71 200*	36,2	95,3	64 100*
60,0	19,0	81,4	67 500*	32,4	92,2	60 900*
62,0	10,1	73,1	63 700*	28,1	88,6	57 800*
64,0				23,1	84,2	54 800*
66,0				16,5	78,4	51 900*

Capacities indicated by **(b)** require 16 780 kg minimum weight suspended beneath luffing jib point.

Liftcrane Luffing Jib Capacities

21000

MAX-ER

Luffing Jib No. 81 On

Boom No. 80 With 42,7 m Mast No. 81

208 060 kg Crane Counterweight

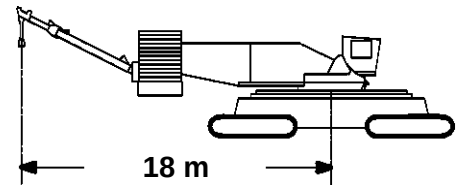
90 720 kg Carbody Counterweight

0 kg Hanging Counterweight

at 18 m Position

Narrow or Wide Crawler Arrangement - 360 Degree Rating

Meets
ANSI B30.5
Requirements



61,0 m (200 ft) Boom

61,0 m (200 ft) Luffing Jib

Jib Oper. Rad. m	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms
25,9	73,7	122,7	197 300* b			
26,0	73,6	122,7	196 500* b			
28,0	71,6	122,0	180 100* b			
30,0	69,6	121,2	165 900*			
32,0	67,6	120,4	153 600*			
34,0	65,5	119,5	142 700*			
36,0	63,4	118,5	133 100*	68,9	120,2	120 500*
38,0	61,3	117,4	124 500*	66,9	119,4	112 500*
40,0	59,1	116,2	116 700*	64,8	118,4	105 300*
42,0	56,8	114,9	109 700*	62,7	117,4	98 900*
44,0	54,5	113,5	103 300*	60,5	116,3	93 000*
46,0	52,2	112,0	97 500*	58,3	115,1	87 700*
48,0	49,7	110,3	92 100*	56,1	113,7	82 800*
50,0	47,2	108,5	87 100*	53,7	112,2	78 200*
52,0	44,5	106,5	82 600*	51,3	110,7	74 100*
54,0	41,7	104,2	78 300*	48,8	108,9	70 100*
56,0	38,7	101,8	74 300*	46,3	107,1	66 500*
58,0	35,5	99,1	70 600*	43,6	105,0	63 200*
60,0	32,1	96,0	67 200*	40,7	102,7	60 000*
62,0	28,2	92,4	63 900*	37,7	100,1	57 000*
64,0	23,8	88,1	60 700*	34,4	97,3	54 200*
66,0	18,3	82,6	57 700*	30,8	94,1	51 500*
68,0	10,1	74,1	54 500*	26,8	90,3	48 900*
70,0				22,1	85,7	46 400*
72,0				16,0	79,5	44 000*

61,0 m (200 ft) Boom

67,1 m (220 ft) Luffing Jib

Jib Oper. Rad. m	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms
27,4	73,8	128,6	182 800* b			
28,0	73,3	128,4	178 600* b			
30,0	71,5	127,7	164 300*			
32,0	69,7	127,0	152 000*			
34,0	67,9	126,2	141 100*			
36,0	66,0	125,3	131 500*			
38,0	64,1	124,3	122 900*			
40,0	62,2	123,3	115 200*	67,2	125,2	103 500*
42,0	60,2	122,2	108 100*	65,4	124,2	97 100*
44,0	58,2	120,9	101 800*	63,5	123,2	91 300*
46,0	56,1	119,6	96 000*	61,5	122,2	85 900*
48,0	54,0	118,2	90 700*	59,5	121,0	81 000*
50,0	51,9	116,6	85 700*	57,5	119,7	76 600*
52,0	49,6	114,9	81 200*	55,4	118,3	72 400*
54,0	47,3	113,1	77 000*	53,3	116,9	68 500*
56,0	44,9	111,1	73 100*	51,1	115,3	64 900*
58,0	42,4	108,9	69 400*	48,9	113,5	61 600*
60,0	39,8	106,6	66 000*	46,5	111,7	58 500*
62,0	37,0	104,0	62 800*	44,1	109,6	55 500*
64,0	33,9	101,1	59 700*	41,5	107,4	52 800*
66,0	30,7	97,8	56 800*	38,8	104,9	50 100*
68,0	27,0	94,0	54 100*	35,9	102,2	47 600*
70,0	22,8	89,6	51 400*	32,9	99,2	45 300*
72,0	17,7	83,9	48 900*	29,5	95,8	43 000*
74,0	10,1	75,2	46 200*	25,7	91,8	40 900*
76,0				21,2	87,0	38 800*

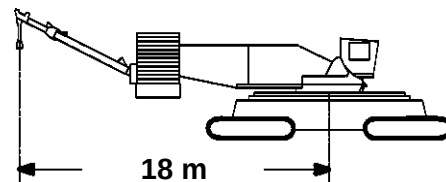
Capacities indicated by **(b)** require 16 780 kg minimum weight suspended beneath luffing jib point.

Liftcrane Luffing Jib Capacities

Luffing Jib No. 81 On
Boom No. 80 With 42,7 m Mast No. 81
208 060 kg Crane Counterweight
90 720 kg Carbody Counterweight
0 kg Hanging Counterweight
at 18 m Position
Narrow or Wide Crawler Arrangement - 360 Degree Rating

Meets
ANSI B30.5
Requirements

**21000
MAX-ER**



**61,0 m (200 ft) Boom
73,2 m (240 ft) Luffing Jib**

Jib Oper. Rad. m	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms
29,0	74,0	134,5	170 000*			
30,0	73,1	134,2	162 900*			
32,0	71,5	133,5	150 500*			
34,0	69,8	132,8	139 700*			
36,0	68,1	132,0	130 000*			
38,0	66,4	131,1	121 500*			
40,0	64,7	130,2	113 700*	69,2	131,7	101 900*
42,0	62,9	129,1	106 700*	67,5	130,9	95 500*
44,0	61,1	128,0	100 400*	65,8	130,0	89 600*
46,0	59,3	126,9	94 600*	64,1	129,1	84 300*
48,0	57,5	125,6	89 200*	62,3	128,0	79 400*
50,0	55,6	124,2	84 400*	60,5	126,9	75 000*
52,0	53,6	122,8	79 800*	58,7	125,7	70 800*
54,0	51,6	121,2	75 600*	56,8	124,4	67 000*
56,0	49,6	119,5	71 800*	54,9	123,0	63 400*
58,0	47,5	117,7	68 100*	53,0	121,5	60 100*
60,0	45,3	115,7	64 700*	50,9	119,9	57 000*
62,0	43,0	113,6	61 500*	48,9	118,1	54 100*
64,0	40,6	111,3	58 500*	46,7	116,3	51 400*
66,0	38,1	108,8	55 700*	44,5	114,3	48 800*
68,0	35,4	106,0	53 000*	42,2	112,1	46 300*
70,0	32,6	103,0	50 500*	39,8	109,7	44 000*
72,0	29,5	99,6	48 000*	37,2	107,1	41 800*
74,0	26,0	95,6	45 700*	34,5	104,3	39 700*
76,0	22,0	90,9	43 400*	31,5	101,1	37 700*
80,0				24,7	93,4	33 600*
84,0				15,1	81,8	29 200*