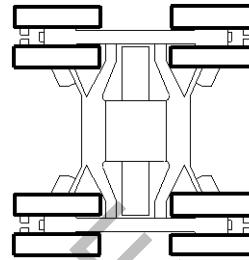
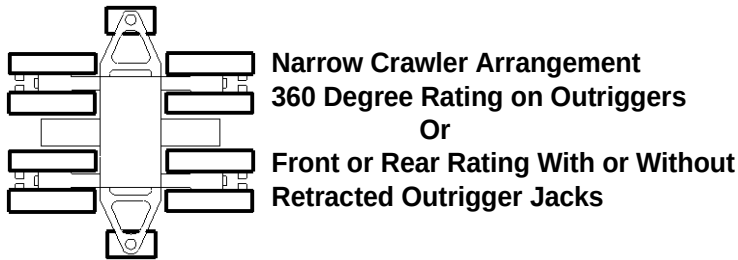
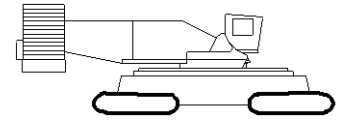


Liftcrane Luffing Jib Capacities

21000
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Luffing Jib No. 81 On
Boom No. 80 With 42.7m Mast No. 81
224 390 kg Crane Counterweight
90 720 kg Carbody Counterweight
0 kg Wheeled Counterweight
Narrow or Wide Crawler Arrangement - 360 Degree Rating

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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.

Swing and travel (forward or side crawl) requires proper position of counterweight wheels. Refer to operators manual for wheel positioning. Exit MAX-ER mode before operating without wheeled 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 3m 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 operators manual for operating guidelines.

Narrow Crawler Arrangement: Narrow crawler arrangement (9.1m) requires outriggers with jacks set for 360 degree operation (no travel). Refer to operators 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 (14.5m) 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. 8203-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.

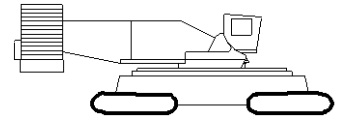
Wide Crawler Arrangement: Wide crawler arrangement (14.5m) travel allowed with 360 degree rating.

Liftcrane Luffing Jib Capacities

Luffing Jib No. 81 On
Boom No. 80 With 42.7m Mast No. 81
224 390 kg Crane Counterweight
90 720 kg Carbody Counterweight
0 kg Wheeled Counterweight
Narrow or Wide Crawler Arrangement - 360 Degree Rating

Designed And Tested
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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 lowerworks carbody beams, outriggers, eight 4 978 mm crawlers, 1 219 mm treads, 42.7m mast, 8 534 mm retractable

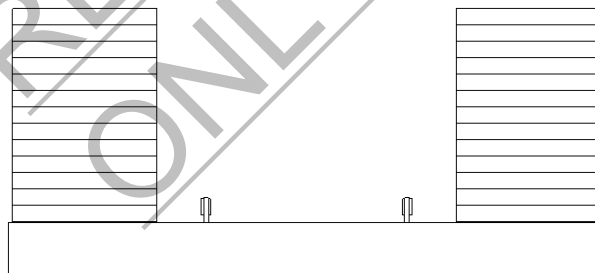
gantry, 20 part boom hoist reeving, boom support straps, 22 part luffing jib hoist reeving, luffing jib and backstay support straps, 224 390 kg crane counterweight, two 24 270 kg and two 21 090 kg carbody counterweights and without wheeled counterweight.

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

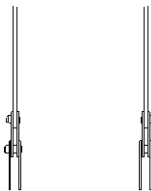
Warning: Narrow crawler arrangement requires set outrigger jacks to swing beyond front or rear operating range.

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

WARNING: Check amount of crane counterweight and wheeled counterweight on machine before use of this chart.



224 390 kg Crane Counterweight
26 Side Boxes

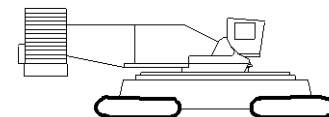


0 kg Wheeled Counterweight
(without shear frame)

Liftcrane Luffing Jib Capacities

Luffing Jib No. 81 On
Boom No. 80 With 42.7m Mast No. 81
224 390 kg Crane Counterweight
90 720 kg Carbody Counterweight
0 kg Wheeled Counterweight
Narrow or Wide Crawler Arrangement - 360 Degree Rating

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WITH OR WITHOUT BOOM AND/OR JIB CATWALKS		
Maximum Boom and Luffing Jib Lengths Lifted Unassisted Using Jack-Knife Method With 0 kg Wheeled 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 - 54.9	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 60 degrees.

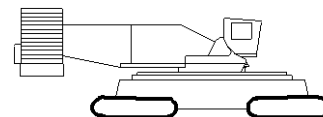
Liftcrane Luffing Jib Capacities

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Luffing Jib No. 81 On
Boom No. 80 With 42.7m Mast No. 81
224 390 kg Crane Counterweight
90 720 kg Carbody Counterweight
0 kg Wheeled Counterweight
Narrow or Wide Crawler Arrangement - 360 Degree Rating

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With The Intent To Be In
The Scope of ANSI B30.5



54.9m (180 Ft.) Boom 36.6m (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	224 400*b			
26.0	60.8	89.8	204 600*b			c
28.0	57.1	88.6	187 800*b	65.8	90.6	175 200*b
30.0	53.2	87.1	173 300*	62.2	89.6	161 500*b
32.0	49.1	85.4	160 500*	58.6	88.4	149 600*b
34.0	44.7	83.4	149 300*	54.7	87.0	139 100*b
36.0	39.9	81.1	139 200*	50.7	85.4	129 800*
38.0	34.5	78.3	130 100*	46.4	83.5	121 400*
40.0	28.1	74.8	121 900*	41.8	81.3	113 800*
42.0	19.9	69.9	114 100*	36.7	78.7	106 800*
44.0				30.8	75.6	100 500*
46.0				23.5	71.4	94 500*

54.9m (180 Ft.) Boom 42.7m (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	223 200*b			
26.0	65.3	96.8	203 400*b			
28.0	62.3	95.7	186 700*b			
30.0	59.2	94.5	172 200*	66.5	96.4	160 100*b
32.0	56.0	93.2	159 600*	63.5	95.4	148 200*b
34.0	52.6	91.7	148 500*	60.4	94.3	137 800*b
36.0	49.1	90.0	138 500*	57.2	93.0	128 500*
38.0	45.3	88.0	129 600*	53.9	91.6	120 200*
40.0	41.3	85.8	121 600*	50.5	90.0	112 800*
42.0	36.9	83.2	114 300*	46.8	88.1	106 000*
44.0	32.0	80.1	107 500*	42.9	86.0	99 800*
46.0	26.2	76.3	101 300*	38.7	83.6	94 100*
48.0	18.8	71.2	95 400*	34.0	80.7	88 800*
50.0				28.6	77.3	83 900*
52.0				22.0	72.8	79 200*

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

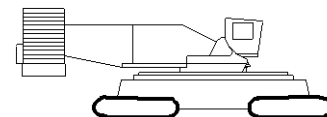
Do not luff into area indicated by (c)
with 16 780 kg minimum weight
(see CAUTION on page 1).

Liftcrane Luffing Jib Capacities

Luffing Jib No. 81 On
Boom No. 80 With 42.7m Mast No. 81
224 390 kg Crane Counterweight
90 720 kg Carbody Counterweight
0 kg Wheeled Counterweight
Narrow or Wide Crawler Arrangement - 360 Degree Rating

Designed And Tested
With The Intent To Be In
The Scope of ANSI B30.5

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54.9m (180 Ft.) Boom 48.8m (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	222 200*b			
26.0	68.6	103.4	202 500*b			
28.0	66.0	102.6	185 800*b			
30.0	63.4	101.6	171 400*			
32.0	60.7	100.4	158 800*	67.1	102.2	147 000*b
34.0	58.0	99.2	147 700*	64.5	101.3	136 600*b
36.0	55.1	97.8	137 800*	61.8	100.2	127 400*
38.0	52.1	96.3	129 000*	59.1	99.0	119 200*
40.0	49.1	94.6	121 100*	56.2	97.7	111 800*
42.0	45.8	92.7	113 800*	53.3	96.2	105 100*
44.0	42.3	90.5	107 300*	50.3	94.6	99 000*
46.0	38.6	88.1	101 200*	47.1	92.7	93 400*
48.0	34.6	85.2	95 700*	43.7	90.7	88 300*
50.0	30.0	81.9	90 500*	40.1	88.4	83 500*
52.0	24.7	77.9	85 600*	36.2	85.7	79 100*
54.0	17.9	72.4	81 000*	31.9	82.6	74 900*
56.0				26.9	78.9	71 000*
58.0				20.8	74.1	67 200*

54.9m (180 Ft.) Boom 54.9m (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	233 100*b			
24.0	73.3	110.7	220 600*b			
26.0	71.1	110.0	200 900*b			
28.0	68.9	109.2	184 300*b			
30.0	66.6	108.3	169 900*			
32.0	64.3	107.4	157 400*	69.8	108.8	145 100*b
34.0	61.9	106.3	146 300*	67.5	108.0	134 800*
36.0	59.5	105.2	136 500*	65.2	107.1	125 700*
38.0	57.0	103.9	127 700*	62.9	106.1	117 500*
40.0	54.4	102.4	119 800*	60.5	104.9	110 200*
42.0	51.8	100.9	112 600*	58.0	103.7	103 500*
44.0	49.0	99.2	106 200*	55.5	102.3	97 500*
46.0	46.2	97.3	100 200*	52.9	100.8	91 900*
48.0	43.1	95.2	94 700*	50.1	99.2	86 800*
50.0	39.9	92.8	89 600*	47.3	97.4	82 200*
52.0	36.5	90.2	84 900*	44.4	95.3	77 800*
54.0	32.7	87.2	80 500*	41.2	93.1	73 800*
56.0	28.4	83.6	76 400*	37.9	90.6	70 000*
58.0	23.5	79.3	72 500*	34.2	87.7	66 400*
60.0	17.1	73.6	68 700*	30.2	84.4	63 100*
62.0				25.5	80.4	59 900*
64.0				19.9	75.4	56 800*

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).

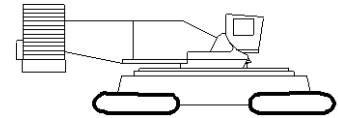
Liftcrane Luffing Jib Capacities

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Luffing Jib No. 81 On
Boom No. 80 With 42.7m Mast No. 81
224 390 kg Crane Counterweight
90 720 kg Carbody Counterweight
0 kg Wheeled Counterweight
Narrow or Wide Crawler Arrangement - 360 Degree Rating

Designed And Tested
With The Intent To Be In
The Scope of ANSI B30.5



54.9m (180 Ft.) Boom 61.0m (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	215 100*b			
26.0	73.1	116.4	199 700*b			
28.0	71.1	115.7	183 100*b			
30.0	69.1	115.0	168 700*			
32.0	67.0	114.1	156 200*			
34.0	65.0	113.2	145 200*			
36.0	62.8	112.2	135 400*	67.8	113.8	124 400*
38.0	60.7	111.1	126 600*	65.8	112.9	116 200*
40.0	58.5	109.8	118 800*	63.7	111.9	108 900*
42.0	56.2	108.5	111 600*	61.5	110.8	102 300*
44.0	53.9	107.1	105 200*	59.4	109.6	96 200*
46.0	51.5	105.5	99 200*	57.1	108.4	90 700*
48.0	49.0	103.8	93 800*	54.8	107.0	85 700*
50.0	46.5	101.9	88 800*	52.5	105.4	81 000*
52.0	43.8	99.8	84 100*	50.0	103.8	76 700*
54.0	40.9	97.6	79 800*	47.5	102.0	72 700*
56.0	37.9	95.0	75 800*	44.8	100.0	69 000*
58.0	34.6	92.2	72 000*	42.1	97.8	65 500*
60.0	31.1	89.0	68 500*	39.1	95.4	62 300*
62.0	27.1	85.3	65 100*	36.0	92.7	59 200*
64.0	22.4	80.7	61 900*	32.5	89.6	56 300*
66.0	16.5	74.8	58 800*	28.7	86.1	53 500*
68.0				24.4	82.0	50 900*
70.0				19.1	76.7	48 300*

54.9m (180 Ft.) Boom 67.1m (220 Ft.) Luffing Jib

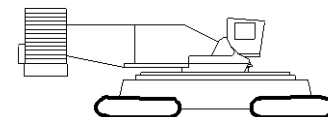
Jib Oper. Rad. m	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms
25.9	74.7	122.8	198 900*b			
26.0	74.7	122.8	198 100*b			
28.0	72.9	122.2	181 500*b			
30.0	71.1	121.5	167 200*			
32.0	69.2	120.7	154 600*			
34.0	67.4	119.9	143 600*			
36.0	65.5	119.0	133 800*			
38.0	63.6	118.0	125 100*	68.1	119.6	114 400*
40.0	61.7	116.9	117 300*	66.2	118.7	107 100*
42.0	59.7	115.8	110 100*	64.4	117.7	100 500*
44.0	57.7	114.5	103 700*	62.4	116.7	94 500*
46.0	55.6	113.1	97 800*	60.5	115.5	89 000*
48.0	53.5	111.7	92 400*	58.5	114.3	84 000*
50.0	51.3	110.1	87 400*	56.4	113.0	79 400*
52.0	49.0	108.4	82 800*	54.3	111.6	75 100*
54.0	46.7	106.5	78 500*	52.2	110.0	71 200*
56.0	44.3	104.5	74 500*	49.9	108.4	67 500*
58.0	41.7	102.3	70 800*	47.6	106.6	64 000*
60.0	39.0	99.8	67 300*	45.2	104.6	60 800*
62.0	36.2	97.2	64 100*	42.7	102.5	57 800*
64.0	33.1	94.2	61 000*	40.1	100.1	54 900*
66.0	29.7	90.8	58 000*	37.3	97.6	52 200*
68.0	26.0	86.9	55 300*	34.3	94.7	49 700*
70.0	21.6	82.1	52 600*	31.1	91.5	47 200*
72.0	16.0	75.9	49 900*	27.5	87.8	44 700*
74.0				23.4	83.4	42 100*
76.0				18.4	77.9	39 500*

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 42.7m Mast No. 81
224 390 kg Crane Counterweight
90 720 kg Carbody Counterweight
0 kg Wheeled Counterweight
Narrow or Wide Crawler Arrangement - 360 Degree Rating

Designed And Tested
With The Intent To Be In
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54.9m (180 Ft.) Boom 73.2m (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	184 500*			
28.0	74.3	128.6	180 200*			
30.0	72.7	127.9	165 700*			
32.0	71.0	127.3	153 200*			
34.0	69.4	126.5	142 200*			
36.0	67.7	125.7	132 400*			
38.0	66.0	124.8	123 700*			
40.0	64.2	123.8	115 800*	68.3	125.3	105 500*
42.0	62.5	122.8	108 700*	66.6	124.5	98 900*
44.0	60.7	121.7	102 300*	64.9	123.5	92 900*
46.0	58.8	120.5	96 400*	63.2	122.5	87 500*
48.0	57.0	119.2	91 000*	61.4	121.4	82 500*
50.0	55.1	117.8	86 000*	59.6	120.3	77 900*
52.0	53.1	116.3	81 500*	57.7	119.0	73 600*
54.0	51.1	114.7	77 200*	55.8	117.7	69 700*
56.0	49.0	113.0	73 300*	53.9	116.2	66 000*
58.0	46.9	111.1	69 600*	51.9	114.6	62 600*
60.0	44.7	109.1	66 100*	49.9	113.0	59 400*
62.0	42.4	106.9	62 800*	47.7	111.2	56 400*
64.0	40.0	104.6	59 800*	45.6	109.2	53 600*
66.0	37.4	102.0	56 900*	43.3	107.1	50 900*
68.0	34.7	99.2	54 200*	40.9	104.9	48 400*
70.0	31.8	96.0	51 600*	38.4	102.4	45 800*
72.0	28.6	92.5	49 200*	35.8	99.7	43 200*
74.0	25.0	88.4	46 800*	32.9	96.6	40 700*
76.0	20.8	83.5	44 500*	29.9	93.3	38 300*
80.0				22.6	84.8	33 700*

54.9m (180 Ft.) Boom 79.2m (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	171 300*			
30.0	74.1	134.3	164 200*			
32.0	72.6	133.7	151 600*			
34.0	71.0	133.0	140 600*			
36.0	69.5	132.3	130 800*			
38.0	67.9	131.5	122 100*			
40.0	66.3	130.6	114 300*			
42.0	64.7	129.6	107 200*	68.5	131.1	97 100*
44.0	63.1	128.6	100 700*	67.0	130.2	91 100*
46.0	61.5	127.5	94 900*	65.4	129.3	85 700*
48.0	59.8	126.4	89 500*	63.8	128.3	80 700*
50.0	58.1	125.1	84 500*	62.1	127.3	76 200*
52.0	56.4	123.8	80 000*	60.5	126.2	71 900*
54.0	54.6	122.4	75 700*	58.8	125.0	68 000*
56.0	52.8	120.9	71 800*	57.1	123.7	64 300*
58.0	50.9	119.3	68 100*	55.3	122.3	60 900*
60.0	49.0	117.6	64 700*	53.5	120.8	57 800*
62.0	47.1	115.7	61 500*	51.7	119.2	54 800*
64.0	45.0	113.7	58 400*	49.8	117.6	52 000*
66.0	42.9	111.6	55 600*	47.8	115.8	49 400*
68.0	40.7	109.3	52 900*	45.8	113.8	46 600*
70.0	38.4	106.8	50 400*	43.8	111.8	43 900*
72.0	36.0	104.1	48 000*	41.6	109.6	41 300*
74.0	33.4	101.2	45 700*	39.3	107.2	38 900*
76.0	30.6	97.9	43 400*	37.0	104.5	36 500*
80.0	24.1	89.9	39 000*	31.7	98.5	32 100*
84.0	15.2	78.2	34 300*	25.5	91.0	28 100*
88.0				17.4	80.4	24 200*

Liftcrane Luffing Jib Capacities

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Luffing Jib No. 81 On

Boom No. 80 With 42.7m Mast No. 81

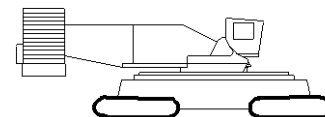
224 390 kg Crane Counterweight

90 720 kg Carbody Counterweight

0 kg Wheeled Counterweight

Narrow or Wide Crawler Arrangement - 360 Degree Rating

Designed And Tested
With The Intent To Be In
The Scope of ANSI B30.5



54.9m (180 Ft.) Boom

85.3m (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	159 500*
32.0	73.8	140.1	150 200*
34.0	72.4	139.5	139 200*
36.0	71.0	138.8	129 500*
38.0	69.6	138.0	120 700*
40.0	68.1	137.2	112 900*
42.0	66.7	136.4	105 800*
44.0	65.2	135.4	99 400*
46.0	63.7	134.5	93 600*
48.0	62.2	133.4	88 200*
50.0	60.6	132.3	83 200*
52.0	59.1	131.1	78 700*
54.0	57.5	129.8	74 500*
56.0	55.9	128.5	70 500*
58.0	54.2	127.0	66 900*
60.0	52.5	125.5	63 500*
62.0	50.8	123.9	60 300*
64.0	49.0	122.2	57 300*
66.0	47.2	120.3	54 400*
68.0	45.3	118.4	51 800*
70.0	43.4	116.3	49 200*
72.0	41.4	114.0	46 800*
74.0	39.3	111.6	44 600*
76.0	37.0	109.0	42 400*
80.0	32.2	103.1	37 700*
84.0	26.7	95.8	33 400*
88.0	19.6	86.1	29 300*

54.9m (180 Ft.) Boom

91.4m (300 Ft.) Luffing Jib

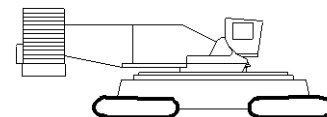
Jib Oper. Rad. m	85 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms
32.0	74.9	146.4	148 500*
34.0	73.6	145.9	137 600*
36.0	72.3	145.2	127 800*
38.0	71.0	144.5	119 200*
40.0	69.7	143.8	111 300*
42.0	68.3	143.0	104 200*
44.0	67.0	142.1	97 800*
46.0	65.6	141.2	92 000*
48.0	64.2	140.3	86 600*
50.0	62.8	139.2	81 700*
52.0	61.4	138.2	77 100*
54.0	59.9	137.0	72 900*
56.0	58.4	135.8	69 000*
58.0	56.9	134.5	65 300*
60.0	55.4	133.1	61 900*
62.0	53.9	131.7	58 700*
64.0	52.3	130.1	55 800*
66.0	50.7	128.5	52 900*
68.0	49.0	126.8	50 300*
70.0	47.3	124.9	47 700*
72.0	45.6	123.0	45 400*
74.0	43.8	120.9	43 100*
76.0	41.9	118.7	40 700*
80.0	38.0	113.8	36 000*
84.0	33.6	108.1	31 700*
88.0	28.7	101.4	27 800*
92.0	22.7	92.8	24 100*

Liftcrane Luffing Jib Capacities

Luffing Jib No. 81 On
Boom No. 80 With 42.7m Mast No. 81
224 390 kg Crane Counterweight
90 720 kg Carbody Counterweight
0 kg Wheeled Counterweight
Narrow or Wide Crawler Arrangement - 360 Degree Rating

Designed And Tested
With The Intent To Be In
The Scope of ANSI B30.5

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61.0m (200 Ft.) Boom 36.6m (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	222 700*b			
26.0	61.8	96.2	203 000*b			
28.0	58.1	95.0	186 300*b			c
30.0	54.2	93.6	171 900*b	64.1	96.2	158 400*b
32.0	50.2	91.9	159 300*	60.5	95.1	146 700*b
34.0	45.9	90.0	148 100*	56.8	93.8	136 400*b
36.0	41.2	87.8	138 100*	52.9	92.3	127 200*
38.0	36.0	85.1	129 100*	48.7	90.5	119 000*
40.0	30.0	81.9	121 000*	44.3	88.5	111 500*
42.0	22.4	77.5	113 400*	39.5	86.2	104 800*
44.0	10.0	69.8	105 800*	34.0	83.3	98 500*
46.0				27.6	79.8	92 700*
48.0				19.2	74.8	87 100*

61.0m (200 Ft.) Boom 42.7m (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	221 400*b			
26.0	66.1	103.1	201 800*b			
28.0	63.1	102.1	185 200*b			
30.0	60.0	100.9	170 800*b	68.1	102.9	156 800*b
32.0	56.8	99.6	158 300*	65.1	102.0	145 100*b
34.0	53.5	98.2	147 200*	62.1	100.9	134 900*b
36.0	50.0	96.5	137 400*	58.9	99.7	125 800*
38.0	46.3	94.6	128 600*	55.7	98.4	117 700*
40.0	42.4	92.5	120 600*	52.3	96.9	110 300*
42.0	38.1	90.0	113 300*	48.8	95.1	103 700*
44.0	33.4	87.1	106 700*	45.0	93.2	97 600*
46.0	27.9	83.5	100 500*	41.0	90.9	92 000*
48.0	21.0	78.8	94 700*	36.6	88.3	86 900*
50.0	10.0	70.9	88 900*	31.6	85.2	82 100*
52.0				25.7	81.3	77 600*
54.0				18.1	76.0	73 200*

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).

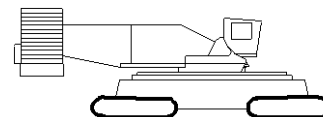
Liftcrane Luffing Jib Capacities

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Luffing Jib No. 81 On
Boom No. 80 With 42.7m Mast No. 81
224 390 kg Crane Counterweight
90 720 kg Carbody Counterweight
0 kg Wheeled Counterweight
Narrow or Wide Crawler Arrangement - 360 Degree Rating

Designed And Tested
With The Intent To Be In
The Scope of ANSI B30.5



61.0m (200 Ft.) Boom 48.8m (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	232 600*b			
24.0	71.8	110.5	220 300*b			
26.0	69.3	109.7	200 700*b			
28.0	66.7	108.9	184 200*b			
30.0	64.1	107.9	169 900*			
32.0	61.5	106.8	157 500*	68.4	108.7	143 800*b
34.0	58.7	105.6	146 400*	65.8	107.8	133 700*b
36.0	55.9	104.3	136 600*	63.2	106.8	124 700*
38.0	52.9	102.8	127 900*	60.5	105.7	116 600*
40.0	49.9	101.1	120 000*	57.8	104.4	109 400*
42.0	46.7	99.3	112 900*	54.9	103.0	102 800*
44.0	43.3	97.2	106 300*	51.9	101.5	96 800*
46.0	39.6	94.8	100 300*	48.8	99.7	91 300*
48.0	35.7	92.1	94 800*	45.5	97.8	86 300*
50.0	31.3	88.9	89 700*	42.1	95.6	81 600*
52.0	26.2	85.1	84 900*	38.3	93.2	77 200*
54.0	19.9	80.1	80 300*	34.3	90.3	73 200*
56.0	10.0	72.0	75 700*	29.7	87.0	69 400*
58.0				24.3	82.8	65 700*
60.0				17.2	77.2	62 200*

61.0m (200 Ft.) Boom 54.9m (180 Ft.) Luffing Jib

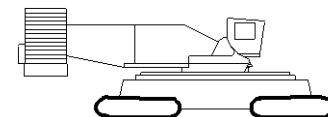
Jib Oper. Rad. m	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms
24.4	73.5	116.8	214 500*b			
26.0	71.7	116.2	199 200*b			
28.0	69.5	115.5	182 700*b			
30.0	67.2	114.7	168 400*			
32.0	64.9	113.7	156 000*			
34.0	62.5	112.7	145 000*	68.7	114.5	131 900*b
36.0	60.1	111.5	135 300*	66.4	113.6	122 900*
38.0	57.7	110.3	126 600*	64.1	112.6	114 900*
40.0	55.1	108.9	118 700*	61.7	111.5	107 600*
42.0	52.5	107.4	111 600*	59.3	110.4	101 100*
44.0	49.8	105.7	105 200*	56.8	109.1	95 200*
46.0	46.9	103.9	99 300*	54.2	107.6	89 800*
48.0	44.0	101.8	93 800*	51.6	106.1	84 800*
50.0	40.8	99.5	88 800*	48.8	104.3	80 200*
52.0	37.4	97.0	84 100*	45.9	102.4	75 900*
54.0	33.7	94.1	79 800*	42.9	100.3	71 900*
56.0	29.6	90.7	75 700*	39.7	97.9	68 200*
58.0	24.9	86.6	71 800*	36.2	95.3	64 800*
60.0	19.0	81.4	68 100*	32.4	92.2	61 500*
62.0	10.1	73.1	64 300*	28.1	88.6	58 400*
64.0				23.1	84.3	55 400*
66.0				16.5	78.4	52 500*

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 42.7m Mast No. 81
224 390 kg Crane Counterweight
90 720 kg Carbody Counterweight
0 kg Wheeled Counterweight
Narrow or Wide Crawler Arrangement - 360 Degree Rating

Designed And Tested
With The Intent To Be In
The Scope of ANSI B30.5



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61.0m (200 Ft.) Boom

61.0m (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	198 800*b			
26.0	73.6	122.7	198 000*b			
28.0	71.6	122.0	181 400*b			
30.0	69.6	121.3	167 200*			
32.0	67.6	120.4	154 800*			
34.0	65.5	119.5	143 900*			
36.0	63.4	118.5	134 100*	68.9	120.2	121 500*
38.0	61.3	117.4	125 500*	66.9	119.4	113 500*
40.0	59.1	116.2	117 600*	64.8	118.4	106 300*
42.0	56.8	114.9	110 500*	62.7	117.4	99 800*
44.0	54.5	113.5	104 100*	60.5	116.3	93 900*
46.0	52.2	112.0	98 300*	58.3	115.1	88 500*
48.0	49.7	110.3	92 800*	56.1	113.7	83 500*
50.0	47.2	108.5	87 900*	53.7	112.3	79 000*
52.0	44.5	106.5	83 300*	51.3	110.7	74 800*
54.0	41.7	104.3	79 000*	48.8	108.9	70 900*
56.0	38.7	101.8	75 000*	46.3	107.1	67 200*
58.0	35.5	99.1	71 300*	43.6	105.0	63 800*
60.0	32.1	96.0	67 800*	40.7	102.7	60 600*
62.0	28.2	92.4	64 500*	37.7	100.1	57 600*
64.0	23.8	88.1	61 300*	34.4	97.3	54 800*
66.0	18.3	82.6	58 200*	30.8	94.1	52 000*
68.0	10.1	74.1	55 100*	26.8	90.3	49 400*
70.0				22.1	85.7	47 000*
72.0				16.0	79.5	44 300*

61.0m (200 Ft.) Boom

67.1m (220 Ft.) Luffing Jib

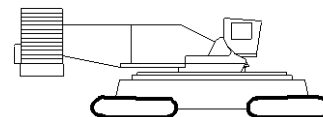
Jib Oper. Rad. m	85 Degree Boom Angle			80 Degree Boom Angle		
	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms	Jib Ang. Deg.	Jib Point Elev. m	Luffing Jib Capacity Kilograms
27.4	73.8	128.6	184 200*b			
28.0	73.3	128.4	179 900*b			
30.0	71.5	127.8	165 600*			
32.0	69.7	127.0	153 200*			
34.0	67.9	126.2	142 200*			
36.0	66.0	125.3	132 600*			
38.0	64.1	124.4	123 900*			
40.0	62.2	123.3	116 100*	67.2	125.2	104 400*
42.0	60.2	122.2	109 100*	65.4	124.2	98 000*
44.0	58.2	120.9	102 600*	63.5	123.2	92 100*
46.0	56.1	119.6	96 800*	61.5	122.2	86 700*
48.0	54.0	118.2	91 400*	59.5	121.0	81 800*
50.0	51.9	116.6	86 500*	57.5	119.7	77 300*
52.0	49.6	114.9	81 900*	55.4	118.4	73 100*
54.0	47.3	113.1	77 700*	53.3	116.9	69 200*
56.0	44.9	111.1	73 700*	51.1	115.3	65 600*
58.0	42.4	108.9	70 100*	48.9	113.5	62 300*
60.0	39.8	106.6	66 600*	46.5	111.7	59 100*
62.0	37.0	104.0	63 300*	44.1	109.6	56 100*
64.0	33.9	101.1	60 300*	41.5	107.4	53 300*
66.0	30.7	97.8	57 400*	38.8	105.0	50 700*
68.0	27.0	94.0	54 600*	35.9	102.3	48 200*
70.0	22.8	89.6	52 000*	32.9	99.2	45 700*
72.0	17.7	83.9	49 400*	29.5	95.8	43 100*
74.0	10.1	75.2	46 700*	25.7	91.8	40 600*
76.0				21.2	87.0	38 100*

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 42.7m Mast No. 81
224 390 kg Crane Counterweight
90 720 kg Carbody Counterweight
0 kg Wheeled Counterweight
Narrow or Wide Crawler Arrangement - 360 Degree Rating

Designed And Tested
With The Intent To Be In
The Scope of ANSI B30.5



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61.0m (200 Ft.) Boom

73.2m (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	171 300*			
30.0	73.1	134.2	164 200*			
32.0	71.5	133.5	151 700*			
34.0	69.8	132.8	140 800*			
36.0	68.1	132.0	131 100*			
38.0	66.4	131.1	122 400*			
40.0	64.7	130.2	114 700*	69.2	131.8	102 800*
42.0	62.9	129.1	107 600*	67.5	130.9	96 400*
44.0	61.1	128.0	101 200*	65.8	130.0	90 500*
46.0	59.3	126.9	95 400*	64.1	129.1	85 100*
48.0	57.5	125.6	90 000*	62.3	128.0	80 200*
50.0	55.6	124.2	85 100*	60.5	126.9	75 700*
52.0	53.6	122.8	80 600*	58.7	125.7	71 600*
54.0	51.6	121.2	76 300*	56.8	124.4	67 700*
56.0	49.6	119.5	72 400*	54.9	123.0	64 100*
58.0	47.5	117.7	68 700*	53.0	121.5	60 800*
60.0	45.3	115.7	65 300*	50.9	119.9	57 600*
62.0	43.0	113.6	62 100*	48.9	118.1	54 700*
64.0	40.6	111.3	59 100*	46.7	116.3	51 900*
66.0	38.1	108.8	56 300*	44.5	114.3	49 300*
68.0	35.4	106.0	53 500*	42.2	112.1	46 800*
70.0	32.6	103.0	51 000*	39.8	109.7	44 100*
72.0	29.5	99.6	48 500*	37.2	107.1	41 500*
74.0	26.0	95.6	46 200*	34.5	104.3	39 100*
76.0	22.0	91.0	43 900*	31.5	101.1	36 700*
80.0	10.1	76.3	39 300*	24.7	93.4	32 300*
84.0				15.1	81.8	28 000*