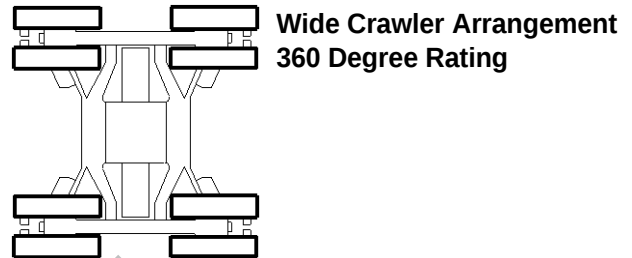
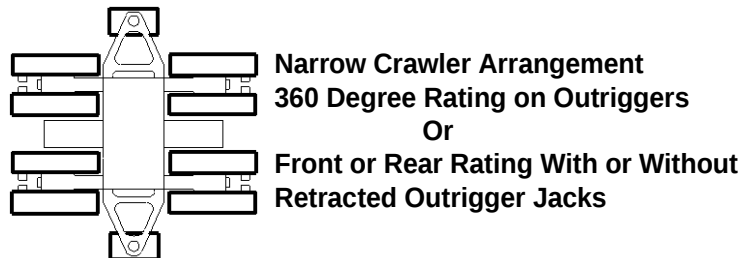
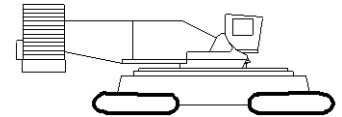


Liftcrane Boom Capacities

21000

Boom No. 80-81 with 30.5m Mast No. 81
240 720 kg Crane Counterweight
90 720 kg Carbody Counterweight
Narrow or Wide Crawler Arrangement

Meets
ANSI B30.5
Requirements



LIFTING CAPACITIES: Lifting capacities for various boom lengths and 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 outtrigger jacks for narrow crawler arrangement.**

Upper boom point capacity for liftcrane service with single part whip line is 22 140 kg or 44 270 kg with two part whip line. In all cases, upper boom point capacities cannot exceed those listed for main boom capacity.

Minimum boom operating angle is 36 degrees when drum 2 lead line is reeved over upper sheave in transition insert wire rope guide.

Weight of all load blocks, hooks, weight ball, slings, hoist lines, etc. beneath boom point sheaves is considered part of main boom load. Boom is 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 in a level position on a firm uniformly supporting surface with gantry and mast up. Refer to boom rigging **No. 192590** and Wire Rope Specification chart **No. 8139-B**. 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 outtrigger 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 and boom within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8142-B**.

Narrow Crawler Arrangement: Narrow crawler arrangement (9.1m) travel allowed only with upperworks centered over front or rear of lowerworks (no swing) with outtrigger jacks retracted or outriggers removed.

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

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, and is an indication of operating radius. In all cases, operating radius shall govern capacity.

BOOM POINT ELEVATION: Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

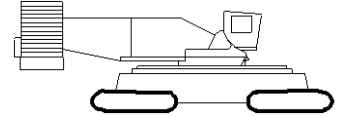
MACHINE EQUIPMENT: Machine equipped with lowerworks carbody beams, outriggers, eight 4 978 mm crawlers, 1 219 mm treads, 30.5m mast, 8 534 mm retractable gantry, 20 part boom hoist reeving, boom support straps, 240 720 kg crane counterweight, two 24 270 kg and two 21 090 kg carbody counterweights.

Liftcrane Boom Capacities

21000

Boom No. 80-81 with 30.5m Mast No. 81
240 720 kg Crane Counterweight
90 720 kg Carbody Counterweight
Narrow or Wide Crawler Arrangement

**Meets
ANSI B30.5
Requirements**



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

WITH OR WITHOUT BOOM CATWALKS	
Maximum Boom Length Lifted Unassisted	
Over End of Blocked Crawlers	Over End of Unblocked Crawlers
121.9m	115.8m
Load block, hook and weight ball on ground at start.	

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.

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
9.8	82.7	57.5	544 300 *
10.0	82.4	57.4	533 200 *
11.0	81.3	57.3	487 100 *
12.0	80.3	57.1	446 400 *
14.0	78.1	56.7	381 600 *
16.0	76.0	56.2	332 300 *
18.0	73.8	55.6	292 400 *
20.0	71.6	54.9	258 900 *
22.0	69.4	54.2	231 600 *
24.0	67.1	53.4	209 000 *
26.0	64.8	52.4	190 000 *
28.0	62.5	51.4	173 600 *
30.0	60.0	50.2	159 600 *
32.0	57.6	49.0	147 300 *
34.0	55.0	47.6	136 500 *
36.0	52.4	46.1	126 900 *
38.0	49.7	44.4	118 400 *
40.0	46.8	42.5	110 600 *
42.0	43.8	40.5	103 500 *
44.0	40.7	38.2	96 500 *
46.0	37.3	35.6	90 000 *
48.0	33.6	32.7	84 000 *
50.0	29.5	29.3	78 400 *
61.0m (200 Ft.) BOOM			
10.4	82.8	63.6	506 300 *
11.0	82.2	63.5	484 200 *
12.0	81.3	63.3	443 500 *
14.0	79.3	62.9	378 800 *
16.0	77.4	62.5	329 500 *
18.0	75.5	62.0	289 900 *
20.0	73.5	61.4	256 400 *
22.0	71.5	60.7	229 100 *
24.0	69.5	60.0	206 500 *
26.0	67.5	59.1	187 600 *
28.0	65.4	58.2	171 300 *
30.0	63.3	57.2	157 200 *
32.0	61.2	56.1	145 000 *

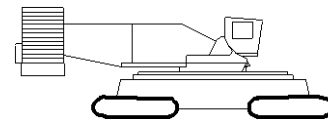
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
61.0m (200 Ft.) BOOM			
34.0	59.0	54.9	134 200 *
36.0	56.8	53.6	124 600 *
38.0	54.4	52.2	116 100 *
40.0	52.1	50.7	108 400 *
42.0	49.6	49.0	101 200 *
44.0	47.1	47.1	94 000 *
46.0	44.4	45.1	87 500 *
48.0	41.6	42.9	81 600 *
50.0	38.6	40.4	76 100 *
52.0	35.4	37.7	71 000 *
54.0	31.9	34.6	66 300 *
56.0	28.1	31.0	62 000 *
67.1m (220 Ft.) BOOM			
11.0	82.9	69.6	468 600 *
12.0	82.1	69.5	443 000 *
14.0	80.3	69.1	376 700 *
16.0	78.6	68.7	327 500 *
18.0	76.8	68.3	288 000 *
20.0	75.1	67.7	254 500 *
22.0	73.3	67.1	227 300 *
24.0	71.5	66.5	204 700 *
26.0	69.6	65.7	185 700 *
28.0	67.8	64.9	169 500 *
30.0	65.9	64.0	155 400 *
32.0	64.0	63.0	143 200 *
34.0	62.1	62.0	132 500 *
36.0	60.1	60.8	122 900 *
38.0	58.1	59.6	114 300 *
40.0	56.1	58.3	106 600 *
42.0	54.0	56.8	99 200 *
44.0	51.8	55.3	92 000 *
46.0	49.6	53.6	85 500 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
67.1m (220 Ft.) BOOM			
48.0	47.2	51.7	79 600 *
50.0	44.8	49.8	74 200 *
52.0	42.3	47.6	69 200 *
54.0	39.7	45.2	64 500 *
56.0	36.8	42.6	60 200 *
58.0	33.8	39.7	56 200 *
60.0	30.5	36.4	52 300 *
73.2m (240 Ft.) BOOM			
12.2	82.6	75.6	430 100 *
14.0	81.1	75.3	374 600 *
16.0	79.5	75.0	325 200 *
18.0	77.9	74.5	285 800 *
20.0	76.3	74.0	252 400 *
22.0	74.7	73.5	225 100 *
24.0	73.1	72.9	202 500 *
26.0	71.4	72.2	183 600 *
28.0	69.7	71.5	167 300 *
30.0	68.1	70.7	153 300 *
32.0	66.4	69.8	141 000 *
34.0	64.6	68.9	130 200 *
36.0	62.9	67.8	120 700 *
38.0	61.1	66.7	112 100 *
40.0	59.3	65.5	104 300 *
42.0	57.4	64.3	96 500 *
44.0	55.5	62.9	89 400 *
46.0	53.6	61.4	82 900 *
48.0	51.6	59.9	77 000 *
50.0	49.5	58.2	71 500 *
52.0	47.4	56.4	66 500 *
54.0	45.2	54.4	61 900 *
56.0	42.9	52.3	57 500 *
58.0	40.5	50.0	53 500 *
60.0	38.0	47.4	49 800 *
62.0	35.3	44.7	46 200 *
64.0	32.5	41.6	42 900 *
66.0	29.3	38.1	39 800 *

Liftcrane Boom Capacities

Boom No. 80-81 with 30.5m Mast No. 81
240 720 kg Crane Counterweight
90 720 kg Carbody Counterweight
Narrow or Wide Crawler Arrangement

Meets
ANSI B30.5
Requirements



21000

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
79.2m (260 Ft.) BOOM			
13.7	82.0	81.5	381 100 *
14.0	81.8	81.5	373 600 *
16.0	80.4	81.2	323 700 *
18.0	78.9	80.8	284 400 *
20.0	77.4	80.3	251 000 *
22.0	75.9	79.8	223 700 *
24.0	74.4	79.3	201 100 *
26.0	72.9	78.6	182 100 *
28.0	71.4	78.0	165 900 *
30.0	69.8	77.2	151 800 *
32.0	68.3	76.4	139 600 *
34.0	66.7	75.6	128 800 *
36.0	65.1	74.7	119 200 *
38.0	63.5	73.7	110 700 *
40.0	61.9	72.6	102 800 *
42.0	60.2	71.5	94 900 *
44.0	58.5	70.2	87 700 *
46.0	56.8	68.9	81 300 *
48.0	55.0	67.5	75 300 *
50.0	53.2	66.1	69 900 *
52.0	51.4	64.5	64 900 *
54.0	49.5	62.8	60 200 *
56.0	47.5	61.0	55 900 *
58.0	45.5	59.0	51 900 *
60.0	43.4	56.9	48 100 *
62.0	41.2	54.7	44 600 *
64.0	38.9	52.2	41 300 *
66.0	36.5	49.6	38 200 *
68.0	34.0	46.7	35 300 *
70.0	31.3	43.5	32 500 *
72.0	28.3	39.8	29 900 *
85.3m (280 Ft.) BOOM			
13.7	82.6	87.7	378 800 *
14.0	82.4	87.7	371 300 *
16.0	81.1	87.3	321 400 *
18.0	79.7	87.0	282 300 *
20.0	78.3	86.6	248 900 *
22.0	76.9	86.1	221 600 *
24.0	75.6	85.6	199 000 *
26.0	74.2	85.0	179 900 *
28.0	72.8	84.4	163 700 *
30.0	71.3	83.7	149 600 *
32.0	69.9	83.0	137 400 *
34.0	68.5	82.2	126 600 *
36.0	67.0	81.4	117 000 *
38.0	65.5	80.5	108 400 *
40.0	64.0	79.5	100 000 *
42.0	62.5	78.5	92 100 *
44.0	61.0	77.3	85 000 *
46.0	59.4	76.2	78 500 *
48.0	57.9	74.9	72 500 *
50.0	56.2	73.6	67 100 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
85.3m (280 Ft.) BOOM			
52.0	54.6	72.2	62 100 *
54.0	52.9	70.7	57 400 *
56.0	51.2	69.1	53 100 *
58.0	49.4	67.4	49 100 *
60.0	47.6	65.6	45 300 *
62.0	45.8	63.6	41 800 *
64.0	43.8	61.6	38 500 *
66.0	41.8	59.4	35 400 *
68.0	39.7	57.0	32 500 *
70.0	37.6	54.4	29 800 *
72.0	35.3	51.6	27 100 *
74.0	32.8	48.6	24 700 *
76.0	30.2	45.3	22 300 *
91.4m (300 Ft.) BOOM			
15.2	82.1	93.6	337 600 *
16.0	81.7	93.5	321 200 *
18.0	80.4	93.2	281 300 *
20.0	79.1	92.8	248 000 *
22.0	77.8	92.4	220 600 *
24.0	76.5	91.9	198 000 *
26.0	75.2	91.4	178 900 *
28.0	73.9	90.8	162 700 *
30.0	72.6	90.2	148 600 *
32.0	71.3	89.5	136 400 *
34.0	70.0	88.8	125 600 *
36.0	68.6	88.0	116 000 *
38.0	67.3	87.1	107 400 *
40.0	65.9	86.3	98 900 *
42.0	64.5	85.3	91 000 *
44.0	63.1	84.3	83 800 *
46.0	61.7	83.2	77 400 *
48.0	60.2	82.1	71 400 *
50.0	58.8	80.9	65 900 *
52.0	57.3	79.6	60 900 *
54.0	55.8	78.2	56 200 *
56.0	54.2	76.8	51 900 *
58.0	52.7	75.3	47 900 *
60.0	51.1	73.7	44 200 *
62.0	49.4	72.0	40 700 *
64.0	47.7	70.2	37 400 *
66.0	46.0	68.2	34 300 *
68.0	44.2	66.2	31 400 *
70.0	42.3	64.0	28 600 *
72.0	40.4	61.7	26 100 *
74.0	38.4	59.2	23 600 *
76.0	36.3	56.5	21 200 *
78.0	34.1	53.6	19 000 *

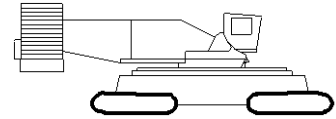
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
97.5m (320 Ft.) BOOM			
15.2	82.6	99.8	337 200 *
16.0	82.2	99.7	320 700 *
18.0	81.0	99.4	281 000 *
20.0	79.8	99.0	247 700 *
22.0	78.6	98.6	220 300 *
24.0	77.4	98.2	197 700 *
26.0	76.2	97.7	178 700 *
28.0	75.0	97.1	162 300 *
30.0	73.7	96.6	148 300 *
32.0	72.5	95.9	136 100 *
34.0	71.3	95.2	125 200 *
36.0	70.0	94.5	115 700 *
38.0	68.8	93.7	107 100 *
40.0	67.5	92.9	98 700 *
42.0	66.2	92.0	90 800 *
44.0	64.9	91.1	83 600 *
46.0	63.6	90.1	77 100 *
48.0	62.3	89.1	71 200 *
50.0	60.9	88.0	65 700 *
52.0	59.6	86.8	60 600 *
54.0	58.2	85.6	56 000 *
56.0	56.8	84.2	51 700 *
58.0	55.4	82.9	47 700 *
60.0	53.9	81.4	43 900 *
62.0	52.4	79.9	40 400 *
64.0	50.9	78.3	37 200 *
66.0	49.4	76.6	34 100 *
68.0	47.8	74.8	31 200 *
70.0	46.2	72.9	28 400 *
72.0	44.5	70.8	25 800 *
74.0	42.8	68.7	23 400 *
76.0	41.0	66.4	21 000 *
78.0	39.2	64.0	18 800 *

Liftcrane Boom Capacities

21000

Boom No. 80-81 with 30.5m Mast No. 81
240 720 kg Crane Counterweight
90 720 kg Carbody Counterweight
Narrow or Wide Crawler Arrangement

**Meets
ANSI B30.5
Requirements**



Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
103.6m (340 Ft.) BOOM			
16.8	82.2	105.7	302 700 *
18.0	81.5	105.6	280 100 *
20.0	80.4	105.2	246 500 *
22.0	79.3	104.8	219 100 *
24.0	78.2	104.4	196 400 *
26.0	77.0	104.0	177 400 *
28.0	75.9	103.5	161 000 *
30.0	74.7	102.9	147 000 *
32.0	73.6	102.3	134 700 *
34.0	72.4	101.7	123 900 *
36.0	71.3	101.0	114 300 *
38.0	70.1	100.3	105 700 *
40.0	68.9	99.5	97 100 *
42.0	67.7	98.7	89 200 *
44.0	66.5	97.8	82 000 *
46.0	65.3	96.9	75 500 *
48.0	64.0	95.9	69 500 *
50.0	62.8	94.9	64 000 *
52.0	61.5	93.8	59 000 *
54.0	60.3	92.7	54 300 *
56.0	59.0	91.5	50 000 *
58.0	57.7	90.2	46 000 *
60.0	56.3	88.9	42 200 *
62.0	55.0	87.5	38 700 *
64.0	53.6	86.0	35 400 *
66.0	52.2	84.5	32 300 *
68.0	50.8	82.9	29 400 *
70.0	49.4	81.2	26 700 *
72.0	47.9	79.4	24 100 *
74.0	46.3	77.5	21 600 *
76.0	44.8	75.5	19 300 *
109.7m (360 Ft.) BOOM			
16.8	82.7	111.9	302 100 *
18.0	82.0	111.7	279 600 *
20.0	80.9	111.4	246 000 *
22.0	79.9	111.0	218 600 *
24.0	78.8	110.6	195 900 *
26.0	77.8	110.2	176 900 *
28.0	76.7	109.7	160 500 *
30.0	75.6	109.2	146 500 *
32.0	74.5	108.7	134 200 *
34.0	73.4	108.1	123 300 *
36.0	72.3	107.4	113 800 *
38.0	71.2	106.8	105 200 *
40.0	70.1	106.0	96 600 *
42.0	69.0	105.3	88 700 *
44.0	67.9	104.5	81 500 *
46.0	66.7	103.6	75 000 *
48.0	65.6	102.7	69 000 *
50.0	64.4	101.7	63 500 *
52.0	63.3	100.7	58 400 *
54.0	62.1	99.7	53 700 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
109.7m (360 Ft.) BOOM			
56.0	60.9	98.6	49 400 *
58.0	59.7	97.4	45 400 *
60.0	58.5	96.2	41 600 *
62.0	57.2	94.9	38 100 *
64.0	56.0	93.6	34 800 *
66.0	54.7	92.1	31 800 *
68.0	53.4	90.7	28 800 *
70.0	52.1	89.1	26 100 *
72.0	50.7	87.5	23 500 *
74.0	49.3	85.8	21 100 *
76.0	47.9	84.0	18 700 *
115.8m (380 Ft.) BOOM			
18.3	82.3	117.8	265 600 *
20.0	81.4	117.6	245 300 *
22.0	80.4	117.2	217 500 *
24.0	79.4	116.9	194 800 *
26.0	78.4	116.5	175 700 *
28.0	77.4	116.0	159 300 *
30.0	76.4	115.5	145 200 *
32.0	75.4	115.0	133 000 *
34.0	74.3	114.4	122 100 *
36.0	73.3	113.8	112 500 *
38.0	72.3	113.2	104 000 *
40.0	71.2	112.5	95 200 *
42.0	70.2	111.8	87 200 *
44.0	69.1	111.0	80 000 *
46.0	68.0	110.2	73 500 *
48.0	67.0	109.4	67 500 *
50.0	65.9	108.5	62 000 *
52.0	64.8	107.6	56 900 *
54.0	63.7	106.6	52 200 *
56.0	62.6	105.5	47 900 *
58.0	61.4	104.4	43 900 *
60.0	60.3	103.3	40 100 *
62.0	59.1	102.1	36 600 *
64.0	58.0	100.9	33 300 *
66.0	56.8	99.6	30 200 *
68.0	55.6	98.2	27 300 *
70.0	54.4	96.8	24 600 *
72.0	53.2	95.3	22 000 *
74.0	51.9	93.7	19 500 *
76.0	50.6	92.1	17 200 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
121.9m (400 Ft.) BOOM			
18.3	82.7	124.0	228 900 *
20.0	81.9	123.7	213 500 *
22.0	80.9	123.4	210 100 *
24.0	80.0	123.1	195 400 *
26.0	79.0	122.7	175 000 *
28.0	78.0	122.3	158 700 *
30.0	77.1	121.8	144 600 *
32.0	76.1	121.3	132 300 *
34.0	75.1	120.8	121 500 *
36.0	74.2	120.2	111 800 *
38.0	73.2	119.6	103 200 *
40.0	72.2	119.0	94 400 *
42.0	71.2	118.3	86 500 *
44.0	70.2	117.6	79 300 *
46.0	69.2	116.8	72 700 *
48.0	68.2	116.0	66 700 *
50.0	67.2	115.2	61 200 *
52.0	66.1	114.3	56 200 *
54.0	65.1	113.4	51 500 *
56.0	64.0	112.4	47 100 *
58.0	63.0	111.4	43 100 *
60.0	61.9	110.3	39 300 *
62.0	60.9	109.2	35 800 *
64.0	59.8	108.0	32 500 *
66.0	58.7	106.8	29 400 *
68.0	57.6	105.5	26 500 *
70.0	56.4	104.2	23 800 *
72.0	55.3	102.8	21 200 *
74.0	54.1	101.4	18 800 *