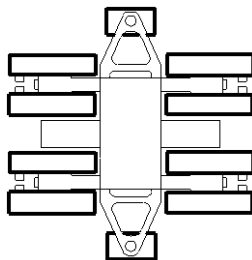
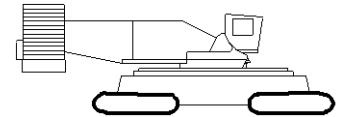


Liftcrane Boom Capacities

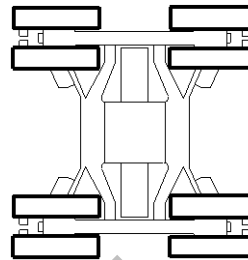
21000

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

Meets
ANSI B30.5
Requirements



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 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 outrigger jacks for narrow crawler arrangement.**

Capacities above 544 300 kg require tandem lower boom points. 54.9m thru 109.7m boom lengths require only the single lower boom point (15 sheaves) to be used. Second lower boom point must be removed from boom on 54.9m thru 109.7m boom lengths.

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 boom top 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. 192587** and Wire Rope Specification chart **No. 8139-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 and boom within boom angle range shown in capacity chart. Refer to Maximum Allowable Travel Specification chart **No. 8142-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.

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.

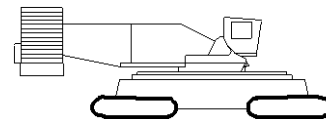
BOOM POINT ELEVATION: Boom point elevation is vertical distance from ground level to centerline of boom point shaft.

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

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

**Meets
ANSI B30.5
Requirements**



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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
(a) 109.7m	103.6m
Load block, hook and weight ball on ground at start. (a) Upper boom point cannot be used on 109.7m 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.

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
30.5m (100 Ft.) BOOM			
7.0	82.7	33.3	756 600 *
8.0	80.8	33.1	667 400 *
9.0	78.8	32.8	595 800 *
10.0	76.9	32.6	537 500 *
11.0	74.9	32.3	489 100 *
12.0	72.9	31.9	448 300 *
14.0	68.9	31.1	383 100 *
16.0	64.7	30.2	333 600 *
18.0	60.4	29.0	292 900 *
20.0	55.8	27.6	259 100 *
22.0	51.0	26.0	231 600 *
24.0	45.7	24.1	208 900 *
26.0	39.9	21.7	189 800 *
28.0	33.2	18.7	173 300 *
36.6m (120 Ft.) BOOM			
7.9	82.4	39.3	670 700 *
8.0	82.3	39.3	665 000 *
9.0	80.7	39.1	593 000 *
10.0	79.1	38.9	534 800 *
11.0	77.5	38.6	486 500 *
12.0	75.9	38.3	445 700 *
14.0	72.6	37.7	380 700 *
16.0	69.2	36.9	331 200 *
18.0	65.8	36.0	290 900 *
20.0	62.2	34.9	257 100 *
22.0	58.6	33.7	229 700 *
24.0	54.7	32.2	207 000 *
26.0	50.6	30.6	187 900 *
28.0	46.3	28.7	171 600 *
30.0	41.6	26.4	157 500 *
32.0	36.4	23.8	145 100 *
34.0	30.3	20.5	134 200 *

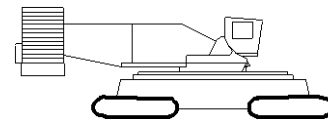
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
42.7m (140 Ft.) BOOM			
8.5	82.7	45.3	622 700 *
9.0	82.1	45.3	591 800 *
10.0	80.7	45.1	533 100 *
11.0	79.3	44.9	484 900 *
12.0	78.0	44.6	444 200 *
14.0	75.2	44.1	379 200 *
16.0	72.3	43.4	329 800 *
18.0	69.5	42.7	289 500 *
20.0	66.5	41.8	255 800 *
22.0	63.5	40.8	228 400 *
24.0	60.4	39.6	205 800 *
26.0	57.2	38.3	186 700 *
28.0	53.9	36.9	170 400 *
30.0	50.4	35.2	156 300 *
32.0	46.7	33.3	144 000 *
34.0	42.8	31.2	133 200 *
36.0	38.5	28.7	123 500 *
38.0	33.7	25.7	114 300 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
48.8m (160 Ft.) BOOM			
9.1	82.9	51.4	579 400 *
10.0	81.9	51.3	530 300 *
11.0	80.7	51.1	482 100 *
12.0	79.5	50.9	441 500 *
14.0	77.1	50.4	376 600 *
16.0	74.6	49.9	327 200 *
18.0	72.2	49.2	287 200 *
20.0	69.6	48.4	253 600 *
22.0	67.1	47.6	226 300 *
24.0	64.5	46.6	203 600 *
26.0	61.8	45.5	184 600 *
28.0	59.1	44.3	168 300 *
30.0	56.2	43.0	154 200 *
32.0	53.3	41.5	141 900 *
34.0	50.2	39.8	131 100 *
36.0	47.0	37.9	121 500 *
38.0	43.6	35.8	112 400 *
40.0	40.0	33.5	103 700 *
42.0	36.0	30.7	95 800 *
44.0	31.6	27.6	88 600 *

Liftcrane Boom Capacities

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

Meets
ANSI B30.5
Requirements



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Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
54.9m (180 Ft.) BOOM			
10.4	82.4	57.4	512 900 *
11.0	81.7	57.3	483 200 *
12.0	80.7	57.1	442 500 *
14.0	78.5	56.7	377 700 *
16.0	76.4	56.2	328 400 *
18.0	74.2	55.6	288 500 *
20.0	72.0	55.0	254 900 *
22.0	69.8	54.2	227 600 *
24.0	67.5	53.4	205 000 *
26.0	65.2	52.4	186 100 *
28.0	62.9	51.4	169 800 *
30.0	60.5	50.2	155 700 *
32.0	58.0	49.0	143 500 *
34.0	55.4	47.6	132 700 *
36.0	52.8	46.1	123 100 *
38.0	50.1	44.4	114 600 *
40.0	47.2	42.5	106 500 *
42.0	44.3	40.5	98 600 *
44.0	41.1	38.2	91 400 *
46.0	37.7	35.6	84 900 *
48.0	34.0	32.7	78 900 *
50.0	29.9	29.3	73 400 *
61.0m (200 Ft.) BOOM			
11.0	82.6	63.5	482 400 *
12.0	81.6	63.3	440 500 *
14.0	79.7	62.9	375 700 *
16.0	77.8	62.5	326 300 *
18.0	75.8	62.0	286 500 *
20.0	73.9	61.4	253 000 *
22.0	71.9	60.7	225 700 *
24.0	69.9	60.0	203 000 *
26.0	67.9	59.1	184 000 *
28.0	65.8	58.2	167 700 *
30.0	63.7	57.2	153 700 *
32.0	61.5	56.1	141 400 *
34.0	59.4	54.9	130 600 *
36.0	57.1	53.6	121 000 *
38.0	54.8	52.2	112 400 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
61.0m (200 Ft.) BOOM			
40.0	52.4	50.7	104 000 *
42.0	50.0	49.0	96 200 *
44.0	47.4	47.1	89 100 *
46.0	44.8	45.1	82 500 *
48.0	41.9	42.9	76 600 *
50.0	39.0	40.5	71 100 *
52.0	35.8	37.7	66 000 *
54.0	32.3	34.6	61 300 *
56.0	28.4	31.0	56 900 *
67.1m (220 Ft.) BOOM			
11.6	82.7	69.5	454 600 *
12.0	82.4	69.5	438 600 *
14.0	80.6	69.1	373 500 *
16.0	78.9	68.7	324 100 *
18.0	77.2	68.3	284 500 *
20.0	75.4	67.7	251 000 *
22.0	73.6	67.1	223 600 *
24.0	71.8	66.5	201 000 *
26.0	70.0	65.7	181 900 *
28.0	68.1	64.9	165 700 *
30.0	66.3	64.0	151 500 *
32.0	64.4	63.1	139 300 *
34.0	62.4	62.0	128 500 *
36.0	60.5	60.9	118 900 *
38.0	58.5	59.6	110 200 *
40.0	56.4	58.3	101 500 *
42.0	54.3	56.8	93 700 *
44.0	52.1	55.3	86 500 *
46.0	49.9	53.6	80 000 *
48.0	47.6	51.8	74 100 *
50.0	45.2	49.8	68 600 *
52.0	42.6	47.6	63 500 *
54.0	40.0	45.2	58 900 *
56.0	37.2	42.6	54 500 *
58.0	34.2	39.7	50 400 *
60.0	30.9	36.4	46 600 *
62.0	27.2	32.6	43 000 *

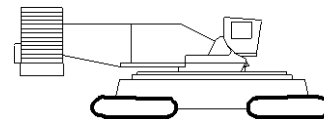
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
73.2m (240 Ft.) BOOM			
12.2	82.9	75.6	430 000 *
14.0	81.4	75.3	372 200 *
16.0	79.8	75.0	322 900 *
18.0	78.2	74.5	283 300 *
20.0	76.6	74.0	249 900 *
22.0	75.0	73.5	222 500 *
24.0	73.4	72.9	199 800 *
26.0	71.7	72.2	180 800 *
28.0	70.0	71.5	164 500 *
30.0	68.4	70.7	150 400 *
32.0	66.7	69.8	138 100 *
34.0	64.9	68.9	127 300 *
36.0	63.2	67.8	117 700 *
38.0	61.4	66.7	109 000 *
40.0	59.6	65.6	100 300 *
42.0	57.7	64.3	92 400 *
44.0	55.8	62.9	85 300 *
46.0	53.9	61.5	78 700 *
48.0	51.9	59.9	72 800 *
50.0	49.8	58.2	67 300 *
52.0	47.7	56.4	62 300 *
54.0	45.5	54.4	57 600 *
56.0	43.2	52.3	53 200 *
58.0	40.8	50.0	49 200 *
60.0	38.3	47.4	45 400 *
62.0	35.6	44.7	41 900 *
64.0	32.8	41.6	38 500 *
66.0	29.6	38.2	35 400 *

Liftcrane Boom Capacities

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Boom No. 80 with 30.5m Mast
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
79.2m (260 Ft.) BOOM			
13.7	82.3	81.5	378 200 *
14.0	82.1	81.5	370 700 *
16.0	80.6	81.2	320 600 *
18.0	79.2	80.8	281 300 *
20.0	77.7	80.3	247 800 *
22.0	76.2	79.8	220 400 *
24.0	74.7	79.3	197 700 *
26.0	73.2	78.7	178 600 *
28.0	71.7	78.0	162 300 *
30.0	70.1	77.2	148 200 *
32.0	68.6	76.5	135 900 *
34.0	67.0	75.6	125 100 *
36.0	65.4	74.7	115 500 *
38.0	63.8	73.7	106 400 *
40.0	62.1	72.6	97 700 *
42.0	60.5	71.5	89 800 *
44.0	58.8	70.2	82 600 *
46.0	57.1	68.9	76 000 *
48.0	55.3	67.6	70 100 *
50.0	53.5	66.1	64 600 *
52.0	51.6	64.5	59 600 *
54.0	49.7	62.8	54 900 *
56.0	47.8	61.0	50 600 *
58.0	45.8	59.0	46 500 *
60.0	43.7	56.9	42 700 *
62.0	41.5	54.7	39 200 *
64.0	39.2	52.2	35 900 *
66.0	36.8	49.6	32 800 *
68.0	34.3	46.7	29 800 *
70.0	31.5	43.5	27 000 *
72.0	28.6	39.9	24 300 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
85.3m (280 Ft.) BOOM			
13.7	82.9	87.7	376 700 *
14.0	82.7	87.7	369 300 *
16.0	81.3	87.4	319 100 *
18.0	79.9	87.0	279 900 *
20.0	78.6	86.6	246 400 *
22.0	77.2	86.1	219 000 *
24.0	75.8	85.6	196 400 *
26.0	74.4	85.0	177 300 *
28.0	73.0	84.4	160 900 *
30.0	71.6	83.7	146 800 *
32.0	70.2	83.0	134 500 *
34.0	68.7	82.2	123 700 *
36.0	67.3	81.4	114 000 *
38.0	65.8	80.5	104 800 *
40.0	64.3	79.5	96 000 *
42.0	62.8	78.5	88 100 *
44.0	61.3	77.4	80 900 *
46.0	59.7	76.2	74 400 *
48.0	58.1	74.9	68 500 *
50.0	56.5	73.6	63 000 *
52.0	54.9	72.2	57 900 *
54.0	53.2	70.7	53 200 *
56.0	51.5	69.1	48 900 *
58.0	49.7	67.4	44 900 *
60.0	47.9	65.6	41 100 *
62.0	46.0	63.6	37 600 *
64.0	44.1	61.6	34 300 *
66.0	42.1	59.4	31 200 *
68.0	40.0	57.0	28 200 *
70.0	37.8	54.4	25 400 *
72.0	35.5	51.6	22 800 *
74.0	33.1	48.6	20 300 *
76.0	30.5	45.3	17 900 *

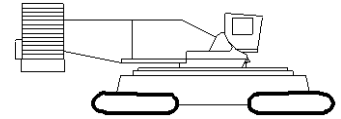
Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
91.4m (300 Ft.) BOOM			
15.2	82.4	93.6	334 300 *
16.0	81.9	93.5	317 700 *
18.0	80.6	93.2	277 800 *
20.0	79.3	92.8	244 400 *
22.0	78.1	92.4	216 900 *
24.0	76.8	91.9	194 200 *
26.0	75.5	91.4	175 100 *
28.0	74.2	90.8	158 700 *
30.0	72.9	90.2	144 600 *
32.0	71.5	89.5	132 300 *
34.0	70.2	88.8	121 500 *
36.0	68.9	88.0	111 700 *
38.0	67.5	87.1	102 200 *
40.0	66.1	86.3	93 300 *
42.0	64.7	85.3	85 400 *
44.0	63.3	84.3	78 200 *
46.0	61.9	83.2	71 700 *
48.0	60.5	82.1	65 700 *
50.0	59.0	80.9	60 200 *
52.0	57.5	79.6	55 100 *
54.0	56.0	78.2	50 500 *
56.0	54.5	76.8	46 100 *
58.0	52.9	75.3	42 100 *
60.0	51.3	73.7	38 300 *
62.0	49.6	72.0	34 800 *
64.0	48.0	70.2	31 400 *
66.0	46.2	68.3	28 400 *
68.0	44.4	66.2	25 400 *
70.0	42.6	64.0	22 700 *
72.0	40.7	61.7	20 000 *
74.0	38.7	59.2	17 600 *

Liftcrane Boom Capacities

21000

Boom No. 80 with 30.5m Mast
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
97.5m (320 Ft.) BOOM			
15.2	82.9	99.8	332 700 *
16.0	82.4	99.7	316 100 *
18.0	81.2	99.4	276 300 *
20.0	80.0	99.0	242 900 *
22.0	78.8	98.6	215 400 *
24.0	77.6	98.2	192 700 *
26.0	76.4	97.7	173 500 *
28.0	75.2	97.1	157 200 *
30.0	74.0	96.6	143 100 *
32.0	72.7	95.9	130 800 *
34.0	71.5	95.3	119 900 *
36.0	70.3	94.5	110 000 *
38.0	69.0	93.8	100 300 *
40.0	67.7	92.9	91 500 *
42.0	66.4	92.0	83 500 *
44.0	65.1	91.1	76 300 *
46.0	63.8	90.1	69 800 *
48.0	62.5	89.1	63 800 *
50.0	61.2	88.0	58 300 *
52.0	59.8	86.8	53 300 *
54.0	58.4	85.6	48 600 *
56.0	57.0	84.3	44 200 *
58.0	55.6	82.9	40 200 *
60.0	54.1	81.4	36 400 *
62.0	52.7	79.9	32 900 *
64.0	51.1	78.3	29 600 *
66.0	49.6	76.6	26 500 *
68.0	48.0	74.8	23 500 *
70.0	46.4	72.9	20 800 *
72.0	44.7	70.9	18 200 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
103.6m (340 Ft.) BOOM			
16.8	82.4	105.7	297 100 *
18.0	81.7	105.6	274 500 *
20.0	80.6	105.2	240 800 *
22.0	79.5	104.8	213 300 *
24.0	78.4	104.4	190 500 *
26.0	77.2	104.0	171 400 *
28.0	76.1	103.5	155 000 *
30.0	74.9	102.9	140 900 *
32.0	73.8	102.3	128 600 *
34.0	72.6	101.7	117 700 *
36.0	71.5	101.0	107 600 *
38.0	70.3	100.3	97 600 *
40.0	69.1	99.5	88 700 *
42.0	67.9	98.7	80 800 *
44.0	66.7	97.8	73 600 *
46.0	65.5	96.9	67 000 *
48.0	64.3	95.9	61 000 *
50.0	63.0	94.9	55 500 *
52.0	61.8	93.8	50 400 *
54.0	60.5	92.7	45 700 *
56.0	59.2	91.5	41 400 *
58.0	57.9	90.2	37 300 *
60.0	56.6	88.9	33 500 *
62.0	55.2	87.5	30 000 *
64.0	53.8	86.0	26 700 *
66.0	52.4	84.5	23 600 *
68.0	51.0	82.9	20 700 *
70.0	49.6	81.2	17 900 *

Oper. Rad. Meters	Boom Ang. Deg.	Boom Point Elev. Meters	Boom Capacity Kilograms
109.7m (360 Ft.) BOOM			
16.8	82.9	111.9	295 500 *
18.0	82.2	111.7	272 800 *
20.0	81.1	111.4	239 200 *
22.0	80.1	111.0	211 700 *
24.0	79.0	110.7	188 900 *
26.0	78.0	110.2	169 800 *
28.0	76.9	109.7	153 400 *
30.0	75.8	109.2	139 200 *
32.0	74.7	108.7	126 900 *
34.0	73.6	108.1	116 000 *
36.0	72.5	107.4	105 600 *
38.0	71.4	106.8	95 600 *
40.0	70.3	106.0	86 700 *
42.0	69.2	105.3	78 700 *
44.0	68.1	104.5	71 500 *
46.0	66.9	103.6	64 900 *
48.0	65.8	102.7	58 900 *
50.0	64.6	101.7	53 400 *
52.0	63.5	100.7	48 400 *
54.0	62.3	99.7	43 700 *
56.0	61.1	98.6	39 300 *
58.0	59.9	97.4	35 200 *
60.0	58.7	96.2	31 500 *
62.0	57.4	94.9	27 900 *
64.0	56.2	93.6	24 600 *
66.0	54.9	92.1	21 600 *
68.0	53.6	90.7	18 600 *