

PVE AMERICAN CC100-1



Hydraulic Crawler Crane

LOAD CHART

ENGLISH

IMPERIAL

Complies with ANSI / ASME B30.5

MAIN BOOM

Main boom 30°–82°, 43–190 ft | CW 67.3+22 klbs



Boom configuration

Section	40 ft	50 ft	60 ft	70 ft	80 ft	90 ft	100 ft	110 ft	120 ft	130 ft	140 ft	150 ft	160 ft	170 ft	180 ft	190 ft
Boom foot	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10 ft insert		1	1			1						1			1	
20 ft insert							1		1	1			1			1
30 ft insert				1	1	1	1	2	2	2	3	3	3	4	4	4
Boom head	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

MAIN BOOM — LOAD CAPACITIES

Main boom 30°–82°, 43–190 ft | CW 67.3+22 klbs

Lifting capacity (lbs × 1,000) by working radius

Radius (ft)	43 ft	52 ft	62 ft	72 ft	82 ft	92 ft	102 ft	112 ft	121 ft	131 ft	141 ft	151 ft	161 ft	171 ft	180 ft	190 ft
9.8	198															
13.1	163.9	162.8	148.1													
16.4	129.8	129.4	126.5	123.2	105.2											
19.7	100.1	99.9	99.7	99.4	99	91.3	77									
23.0	79.2	79	78.8	78.5	78.3	78.1	77.7	73.9	71.5							
26.2	70	69.5	69.3	69.1	68.9	68.6	68.4	68.2	67.3	62	60.1					
29.5	63.4	63.1	62.9	62.7	62.5	62.3	62	61.8	61.6	60.5	59.6	55.2	51.7			
32.8	56.3	56.1	55.9	55.7	55.4	55.2	54.8	54.6	54.3	54.1	53.9	53.7	51.3	44.4	40	
36.1	49.7	49.5	49.3	49.1	48.8	48.6	48.4	48	47.7	47.5	47.3	47.1	46.6	44	39.8	34.3
39.4	44.7	44.2	44	43.8	43.6	43.3	43.1	42.7	42.5	42.2	42	41.8	41.4	41.1	37.8	34.1
42.6	42.7	40	39.8	39.4	39.2	38.9	38.7	38.5	38.3	37.8	37.6	37.4	37.2	36.7	36.1	32.6
45.9		36.5	36.3	35.9	35.6	35.4	35.2	35	34.5	34.3	34.1	33.9	33.4	33.2	33	31
49.2		33.4	33.2	32.8	32.6	32.3	32.1	31.9	31.5	31.2	31	30.8	30.4	30.1	29.9	29.7
52.5			30.6	30.4	30.1	29.7	29.5	29.3	29	28.6	28.4	28.2	27.7	27.5	27.3	27.1
59.0			27.1	26	25.7	25.5	25.3	25.1	24.6	24.4	24.2	23.8	23.5	23.3	22.9	22.7
65.6				22.7	22.4	22.2	22	21.8	21.3	21.1	20.9	20.5	20.2	20	19.6	19.4
72.2				22.4	19.8	19.6	19.4	19.1	18.7	18.5	18.3	17.8	17.6	17.4	16.9	16.7
78.7					18.9	17.4	17.2	16.9	16.7	16.3	16.1	15.8	15.4	15.2	14.7	14.5
85.3						16.3	15.4	15.2	14.7	14.5	14.3	14.1	13.6	13.4	13	12.8
91.8							13.9	13.6	13.2	13	12.8	12.3	12.1	11.9	11.4	11.2
98.4								12.3	11.9	11.7	11.4	11	10.8	10.6	10.1	9.9
105.0								11.9	10.8	10.6	10.1	9.9	9.7	9.2	9	8.8
111.5									9.7	9.5	9	8.8	8.6	8.4	7.9	7.7
118.1										8.4	8.1	7.9	7.7	7.5	7	6.8
124.6											7.3	7.3	6.8	6.6	6.4	5.9
131.2												6.6	6.4	6.2	5.9	5.3
137.8													5.9	5.5	5.3	4.8
144.3														5.1	4.6	4.4

Values are nominal load chart capacities. Always verify against the active operation manual for the lift duty.

RUNNER

Main boom + runner | CW 67.3+22 klbs



Boom configuration

Section	40 ft	50 ft	60 ft	70 ft	80 ft	90 ft	100 ft	110 ft	120 ft	130 ft	140 ft	150 ft	160 ft	170 ft	180 ft
Boom foot	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10 ft insert		1	1			1						1			1
20 ft insert							1		1	1			1		
30 ft insert				1	1	1	1	2	2	2	3	3	3	4	4
Boom head	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

RUNNER — LOAD CAPACITIES

Main boom + runner | CW 67.3+22 klbs

Lifting capacity (lbs × 1,000) by working radius

Radius (ft)	43 ft	52 ft	62 ft	72 ft	82 ft	92 ft	102 ft	112 ft	121 ft	131 ft	141 ft	151 ft	161 ft	171 ft	180 ft
13.1	15.4														
16.4	15.4	15.4	15.4												
19.7	15.4	15.4	15.4	15.4	15.4										
23.0	15.4	15.4	15.4	15.4	15.4	15.4	15.4								
26.2	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4						
29.5	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4				
32.8	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4		
36.1	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
39.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
42.6	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
45.9	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
49.2		15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
52.5		15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
59.0			15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
65.6			15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
72.2				15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4
78.7					15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.4	15.2	14.7
85.3						15.4	15.2	15	14.7	14.5	14.1	13.9	13.6	13.2	13
91.8						15.2	13.6	13.4	13.2	13	12.5	12.3	12.1	11.7	11.4
98.4							13	12.1	11.9	11.7	11.2	11	10.8	10.6	10.1
105.0								11.2	10.8	10.3	10.1	9.9	9.7	9.2	9
111.5									9.7	9.5	9.2	8.8	8.6	8.4	7.9
118.1									9.7	8.6	8.4	7.9	7.7	7.5	7
124.6										8.1	7.5	7.3	6.8	6.6	6.4
131.2											7	6.6	6.2	5.9	5.7
144.3												5.9	5.1	4.8	4.4
157.4													4.8	4	3.5
170.6															3.1

Values are nominal load chart capacities. Always verify against the active operation manual for the lift duty.

FIXED JIB 15°

Main boom + fixed jib at 15° | CW 67.3+22 klbs



Boom configuration

Section	80 ft	90 ft	100 ft	110 ft	120 ft	130 ft	140 ft	150 ft
Boom foot	1	1	1	1	1	1	1	1
10 ft insert		1						1
20 ft insert			1		1	1		
30 ft insert	1	1	1	2	2	2	3	3
Boom head	1	1	1	1	1	1	1	1

FIXED JIB 15° — LOAD CAPACITIES

Main boom + fixed jib at 15° | CW 67.3+22 klbs

Load capacities with 82 ft main boom

Radius (ft)	30 ft	44 ft	59 ft
32.8	15.4		
36.1	15.4		
39.4	15.4	15.4	
42.6	15.4	15.4	
45.9	15.4	15.4	10.8
49.2	15.4	15.4	10.8
52.5	15.4	15.4	10.6
59.0	15.4	15.4	10.3
65.6	15.4	15.4	10.1
72.2	15.4	15.4	10.1
78.7	15.4	15.4	9.9
85.3	14.7	15.2	9.9
91.8	13.2	13.6	9.7
98.4	11.9	12.3	9.5
105.0		11.2	9
111.5		10.1	8.6
118.1		9.2	7.7
124.6			7.3
131.2			6.6

Load capacities with 92 ft main boom

Radius (ft)	30 ft	44 ft	59 ft
32.8	15.4		
36.1	15.4		
39.4	15.4	15.4	
42.6	15.4	15.4	
45.9	15.4	15.4	10.8
49.2	15.4	15.4	10.8
52.5	15.4	15.4	10.6
59.0	15.4	15.4	10.6
65.6	15.4	15.4	10.3
72.2	15.4	15.4	10.1
78.7	15.4	15.4	10.1
85.3	14.5	15	9.9
91.8	13	13.4	9.9
98.4	11.7	12.1	9.7
105.0	10.6	11	9
111.5	9.5	9.9	8.1
118.1		9	7.5
124.6		8.1	7
131.2			6.4
137.8			5.9

Values are nominal load chart capacities. Always verify against the active operation manual for the lift duty.

FIXED JIB 15° — LOAD CAPACITIES

Main boom + fixed jib at 15° | CW 67.3+22 klbs

Load capacities with 102 ft main boom

Radius (ft)	30 ft	44 ft	59 ft
36.1	15.4		
39.4	15.4		
42.6	15.4	15.4	
45.9	15.4	15.4	
49.2	15.4	15.4	10.8
52.5	15.4	15.4	10.8
59.0	15.4	15.4	10.6
65.6	15.4	15.4	10.3
72.2	15.4	15.4	10.3
78.7	15.4	15.4	10.1
85.3	14.1	14.5	9.9
91.8	12.5	13	9.9
98.4	11.2	11.7	9.5
105.0	10.1	10.6	8.6
111.5	9.2	9.5	7.9
118.1	8.4	8.6	7.3
124.6		7.9	6.6
131.2		7.3	6.2
137.8			5.5
144.3			5.1

Load capacities with 112 ft main boom

Radius (ft)	30 ft	44 ft	59 ft
36.1	15.4		
39.4	15.4		
42.6	15.4	15.4	
45.9	15.4	15.4	
49.2	15.4	15.4	10.8
52.5	15.4	15.4	10.8
59.0	15.4	15.4	10.6
65.6	15.4	15.4	10.6
72.2	15.4	15.4	10.3
78.7	15.4	15.4	10.1
85.3	13.9	14.3	10.1
91.8	12.3	12.8	9.9
98.4	11	11.4	9.2
105.0	9.9	10.3	8.4
111.5	8.8	9.2	7.7
118.1	7.9	8.4	7
124.6	7.3	7.5	6.4
131.2		6.8	5.7
137.8		6.2	5.3
144.3		5.5	4.8
157.4			4.2

Values are nominal load chart capacities. Always verify against the active operation manual for the lift duty.

FIXED JIB 15° — LOAD CAPACITIES

Main boom + fixed jib at 15° | CW 67.3+22 klbs

Load capacities with 121 ft main boom

Radius (ft)	30 ft	44 ft	59 ft
39.4	15.4		
42.6	15.4		
45.9	15.4	15.4	
49.2	15.4	15.4	
52.5	15.4	15.4	10.8
59.0	15.4	15.4	10.6
65.6	15.4	15.4	10.6
72.2	15.4	15.4	10.3
78.7	15.4	15.4	10.3
85.3	13.4	14.1	10.1
91.8	11.9	12.5	9.9
98.4	10.6	11.2	9
105.0	9.5	9.9	8.1
111.5	8.6	9	7.5
118.1	7.7	8.1	6.8
124.6	6.8	7.3	6.2
131.2	6.2	6.6	5.5
137.8	5.5	5.9	5.1
144.3		5.3	4.6
157.4			3.7

Load capacities with 131 ft main boom

Radius (ft)	30 ft	44 ft	59 ft
42.6	15.4		
45.9	15.4	15.4	
49.2	15.4	15.4	
52.5	15.4	15.4	10.8
59.0	15.4	15.4	10.8
65.6	15.4	15.4	10.6
72.2	15.4	15.4	10.3
78.7	15	15.4	10.3
85.3	13.2	13.6	10.1
91.8	11.7	12.1	9.9
98.4	10.3	10.8	8.8
105.0	9.2	9.7	7.9
111.5	8.1	8.6	7
118.1	7.3	7.7	6.4
124.6	6.4	6.8	5.9
131.2	5.7	6.2	5.3
137.8	5.1	5.5	4.8
144.3	4.6	5.1	4.4
157.4		4	3.5
170.6			2.9

Values are nominal load chart capacities. Always verify against the active operation manual for the lift duty.

FIXED JIB 15° — LOAD CAPACITIES

Main boom + fixed jib at 15° | CW 67.3+22 klbs

Load capacities with 141 ft main boom

Radius (ft)	30 ft	44 ft	59 ft
42.6	15.4		
45.9	15.4		
49.2	15.4	15.4	
52.5	15.4	15.4	
59.0	15.4	15.4	10.8
65.6	15.4	15.4	10.6
72.2	15.4	15.4	10.6
78.7	14.7	15.2	10.3
85.3	12.8	13.4	10.3
91.8	11.2	11.9	9.7
98.4	9.9	10.6	8.6
105.0	8.8	9.2	7.7
111.5	7.9	8.4	6.8
118.1	7	7.5	6.2
124.6	6.2	6.6	5.5
131.2	5.5	5.9	5.1
137.8	4.8	5.3	4.6
144.3	4.2	4.6	4.2
157.4		3.7	3.3
170.6			2.6

Load capacities with 151 ft main boom

Radius (ft)	30 ft	44 ft	59 ft
45.9	15.4		
49.2	15.4	15.4	
52.5	15.4	15.4	
59.0	15.4	15.4	10.8
65.6	15.4	15.4	10.6
72.2	15.4	15.4	10.3
78.7	14.3	15	10.3
85.3	12.5	13	10.3
91.8	11	11.4	9.2
98.4	9.7	10.1	8.4
105.0	8.6	9	7.5
111.5	7.5	7.9	6.6
118.1	6.6	7	5.9
124.6	5.9	6.4	5.3
131.2	5.1	5.5	4.8
137.8	4.4	5.1	4.2
144.3	4	4.4	3.7
157.4	2.9	3.3	3.1
170.6		2.2	2.4

Values are nominal load chart capacities. Always verify against the active operation manual for the lift duty.

FIXED JIB 30°

Main boom + fixed jib at 30° | CW 67.3+22 klbs



Boom configuration

Section	80 ft	90 ft	100 ft	110 ft	120 ft	130 ft	140 ft	150 ft
Boom foot	1	1	1	1	1	1	1	1
10 ft insert		1						1
20 ft insert			1		1	1		
30 ft insert	1	1	1	2	2	2	3	3
Boom head	1	1	1	1	1	1	1	1

FIXED JIB 30° — LOAD CAPACITIES

Main boom + fixed jib at 30° | CW 67.3+22 klbs

Load capacities with 82 ft main boom

Radius (ft)	30 ft	44 ft	59 ft
39.4	15.4		
42.6	15.4		
45.9	15.4		
49.2	15.4	15.4	
52.5	15.4	15.4	
59.0	15.4	15.4	10.6
65.6	15.4	15.4	10.1
72.2	15.4	15.4	9.9
78.7	15.4	15.4	9.5
85.3	15	15.4	9.2
91.8	13.4	13.9	9
98.4	12.1	12.5	8.8
105.0	10.8	11.4	8.6
111.5		10.3	8.4
118.1		9.5	7.7
124.6			7
131.2			6.6

Load capacities with 92 ft main boom

Radius (ft)	30 ft	44 ft	59 ft
39.4	15.4		
42.6	15.4		
45.9	15.4		
49.2	15.4	15.4	
52.5	15.4	15.4	
59.0	15.4	15.4	10.8
65.6	15.4	15.4	10.3
72.2	15.4	15.4	9.9
78.7	15.4	15.4	9.7
85.3	14.7	15.4	9.5
91.8	13.2	13.6	9
98.4	11.9	12.3	8.8
105.0	10.6	11.2	8.8
111.5	9.5	10.1	8.1
118.1		9.2	7.5
124.6		8.4	6.8
131.2			6.4
137.8			5.9

Load capacities with 102 ft main boom

Radius (ft)	30 ft	44 ft	59 ft
42.6	15.4		
45.9	15.4		
49.2	15.4		
52.5	15.4	15.4	
59.0	15.4	15.4	
65.6	15.4	15.4	10.6
72.2	15.4	15.4	10.1
78.7	15.4	15.4	9.9
85.3	14.3	15	9.5
91.8	12.8	13.4	9.2
98.4	11.4	12.1	9
105.0	10.3	10.8	8.6
111.5	9.2	9.9	7.9
118.1	8.4	8.8	7.3
124.6		7.9	6.6
131.2		7.3	6.2
137.8			5.7
144.3			5.3

Values are nominal load chart capacities. Always verify against the active operation manual for the lift duty.

FIXED JIB 30° — LOAD CAPACITIES

Main boom + fixed jib at 30° | CW 67.3+22 klbs

Load capacities with 112 ft main boom

Radius (ft)	30 ft	44 ft	59 ft
42.6	15.4		
45.9	15.4		
49.2	15.4		
52.5	15.4	15.4	
59.0	15.4	15.4	
65.6	15.4	15.4	10.6
72.2	15.4	15.4	10.3
78.7	15.4	15.4	9.9
85.3	14.1	14.7	9.7
91.8	12.5	13.2	9.5
98.4	11.2	11.9	9.2
105.0	10.1	10.6	8.6
111.5	9	9.5	7.7
118.1	8.1	8.6	7
124.6	7.3	7.7	6.6
131.2		7	5.9
137.8		6.4	5.5
144.3		5.7	5.1
157.4			4.2

Load capacities with 121 ft main boom

Radius (ft)	30 ft	44 ft	59 ft
45.9	15.4		
49.2	15.4		
52.5	15.4		
59.0	15.4	15.4	
65.6	15.4	15.4	10.6
72.2	15.4	15.4	10.3
78.7	15.4	15.4	10.1
85.3	13.9	14.5	9.9
91.8	12.3	13	9.5
98.4	11	11.4	9
105.0	9.7	10.3	8.4
111.5	8.8	9.2	7.5
118.1	7.7	8.4	6.8
124.6	7	7.5	6.4
131.2	6.2	6.8	6.2
137.8	5.5	6.2	5.3
144.3		5.5	4.8
157.4			4

Values are nominal load chart capacities. Always verify against the active operation manual for the lift duty.

FIXED JIB 30° — LOAD CAPACITIES

Main boom + fixed jib at 30° | CW 67.3+22 klbs

Load capacities with 131 ft main boom

Radius (ft)	30 ft	44 ft	59 ft
45.9	15.4		
49.2	15.4		
52.5	15.4		
59.0	15.4	15.4	
65.6	15.4	15.4	10.8
72.2	15.4	15.4	10.6
78.7	15.4	15.4	10.1
85.3	13.4	14.3	9.9
91.8	11.9	12.5	9.7
98.4	10.6	11.2	8.8
105.0	9.5	10.1	8.1
111.5	8.4	9	7.3
118.1	7.5	8.1	6.6
124.6	6.6	7.3	6.2
131.2	5.9	6.4	5.5
137.8	5.3	5.7	5.1
144.3	4.6	5.1	4.6
157.4		4	3.7
170.6			3.1

Load capacities with 141 ft main boom

Radius (ft)	30 ft	44 ft	59 ft
49.2	15.4		
52.5	15.4		
59.0	15.4	15.4	
65.6	15.4	15.4	
72.2	15.4	15.4	10.6
78.7	15.2	15.4	10.3
85.3	13.2	14.1	10.1
91.8	11.7	12.3	9.7
98.4	10.3	11	8.6
105.0	9	9.7	7.9
111.5	8.1	8.8	7
118.1	7.3	7.7	6.4
124.6	6.4	7	5.9
131.2	5.7	6.2	5.3
137.8	5.1	5.5	4.8
144.3	4.4	4.8	4.4
157.4		3.7	3.7
170.6		2.9	2.9

Load capacities with 151 ft main boom

Radius (ft)	30 ft	44 ft	59 ft
52.5	15.4		
59.0	15.4	15.4	
65.6	15.4	15.4	
72.2	15.4	15.4	10.6
78.7	14.7	15.4	10.3
85.3	13	13.6	10.1
91.8	11.4	12.1	9.5
98.4	10.1	10.8	8.6
105.0	8.8	9.5	7.7
111.5	7.7	8.4	6.8
118.1	6.8	7.5	6.2
124.6	6.2	6.6	5.7
131.2	5.3	5.9	5.1
137.8	4.6	5.3	4.6
144.3	4	4.6	4.2
157.4	3.1	3.5	3.5
170.6		2.6	2.6

Values are nominal load chart capacities. Always verify against the active operation manual for the lift duty.