

# PVE AMERICAN

## CC100-1

**100 ton (90 mt) lattice boom crawler crane**



Complies with ANSI/ASME B30.5

# **PVE AMERICAN**

January 2026.

Unless otherwise specified, all information in this brochure refers to as standard crane equipment, and it is intended as general information only.

No liability is assumed. Errors reserved.

Product specifications and prices are subject to changes without notice.

The photographs and/or drawings in this brochure are for illustrative purposes only.

Operator must refer to Crane rating manuals and operator manuals to determine allowable crane lifting capacities, assembly and operating procedures.

Failure to follow the corresponding Operator's Manual when using our equipment or failure to otherwise act responsibly may result in property damage, serious injury or death.

The sole warranty applicable with respect to our equipment is the standard warranty as per general terms and conditions of sales and service (ask your PVE AMERICAN dealer for details), and PVE AMERICAN makes no other warranty, express or implied. All rights reserved.

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## Hydraulic system

Bosch Rexroth hydraulic main pump and motors to power all winches installed, crawlers and built with a swing motor. All movements can be done at the same time. All hydraulic filters have electronic sensors which will be displayed in the operator cabin touch screen.

Max working pressure 5076 psi (350 bar)

## Crawlers

Powered by Rexroth drive motor and planetary gear reduction unit, electronically controlled for precise movement. Elastomer chain tensioner. The track plates are mounted on a chain drive.

## Turntable gear

Consists of roller bearing with inner teeth, powered by Rexroth swing motor. Accurate swing speed control, free swing and mechanical swing lock.

## Operator Cabin

The air suspended operator seat with integrated joysticks gives the operator maximum comfort. The joysticks are electric-hydraulic controls that gives the operator very precise performance.



## Winches

The winches are strong in design with powerful performance. The optional free-fall system is low maintenance multi-disc brake system.

### **Main winch capacity**

Line pull 1 <sup>st</sup> layer	Capacity	13.5t
Line pull 5 <sup>th</sup> layer	Capacity	10,0t
Winch speed	in ft / min	0 - 394

### **Optional winches**

3 <sup>rd</sup> winch in boom foot	Capacity	5,5 t
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## Crane control system

The control of the crane is via CAN-BUS with the PVE developed software and functionality system. Via a touch screen the operator can oversee all functions and alerts. The Safe Load System is integrated in the touch screen. A 360 degree view camera, including winch camera and load camera ensure maximum safety will working.

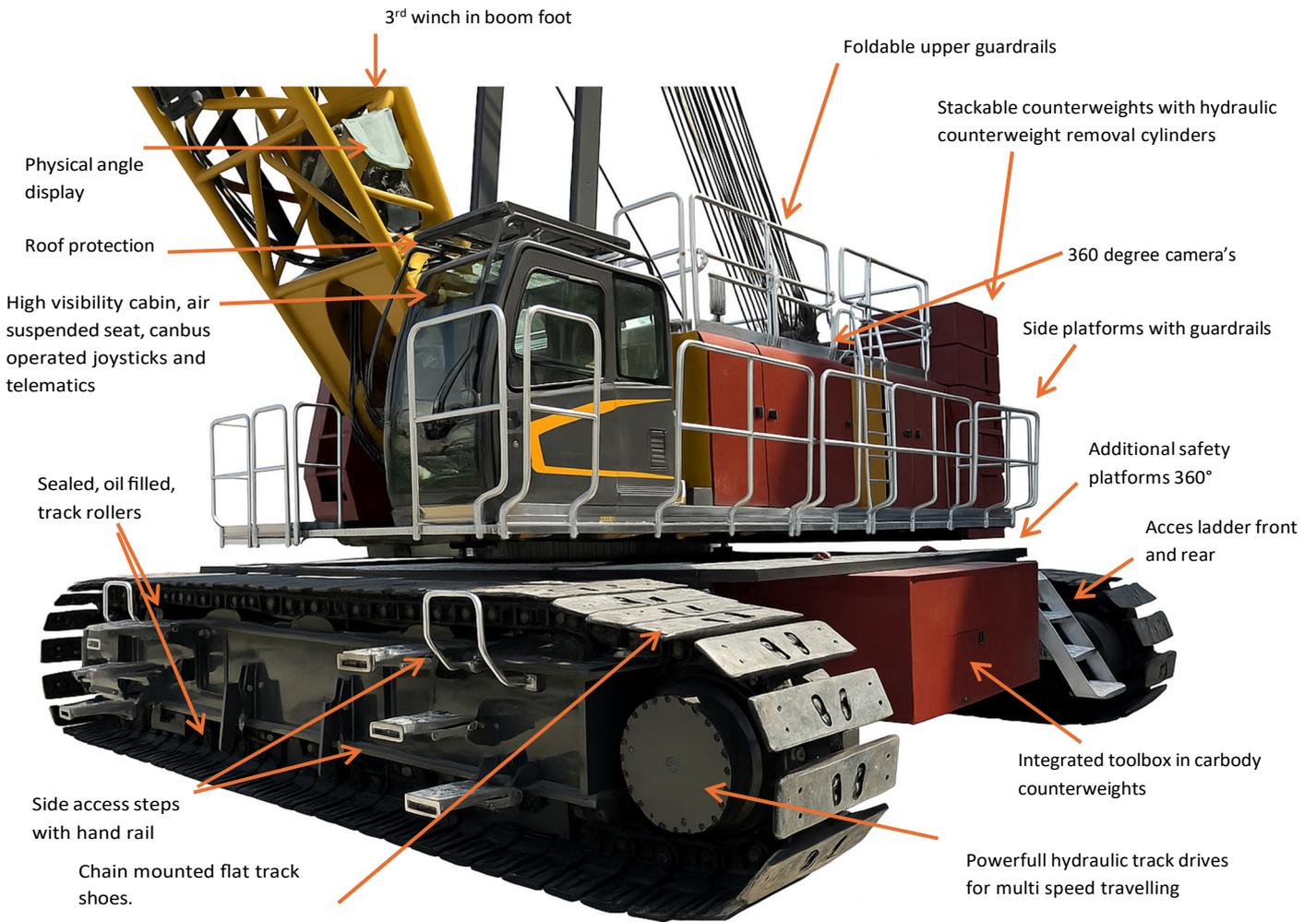
**CRANEINFO** is a data storage system to ensure maximum data availability for service and factory support.



# Standard Features

Heavy duty design with 355 HP (261 kW) Cummins L9 diesel engine.

The new generation **PVE AMERICAN CC100-1** stands out with innovative designs and modern safety systems, improving operational safety, easy controls and optimum performance.



**PVE AMERICAN**  
STRONGER – SMARTER - SAFER

PVE AMERICAN CC100-1

**Diesel Engine**

Power rating,	261 kW (355 hp) at 2000 rpm
Engine make	Cummins L9
Fuel tank	132 gal (500 l) with level gauge and low level warning
Emission	Stage V / Tier 4F

**Counter Weights**

Base Plate with cylinders	20.900 lbs
Wing weights (4 pcs)	10.010 lbs
Center Weight (1 pc)	10.010 lbs
Total counter weights	70,950 lbs

The 2 cylinders mounted on the base plate allow for easy assembly or removal of the counterweights.

**Car body counterweights**

Front mounted	11,000 lbs
Rear mounted	11,000 lbs

Both carbody counterweights have integrated toolboxes.

**Winches**

**Hoist Winches**

W1 +W2	Line pull 1 <sup>st</sup> layer	13,5 t
	Line pull 5 <sup>th</sup> layer	10,0 t
	Rope diameter	22 mm
	Rope speed	394 ft/min
	Optional	free-fall

**Boom + options**

Main boom configuration	43 – 190 ft
Boom foot	20.6 ft
Boom tip	23.1 ft
Boom insert	10 ft
Boom insert	20 ft
Boom insert	30 ft

**Fixed Jib**

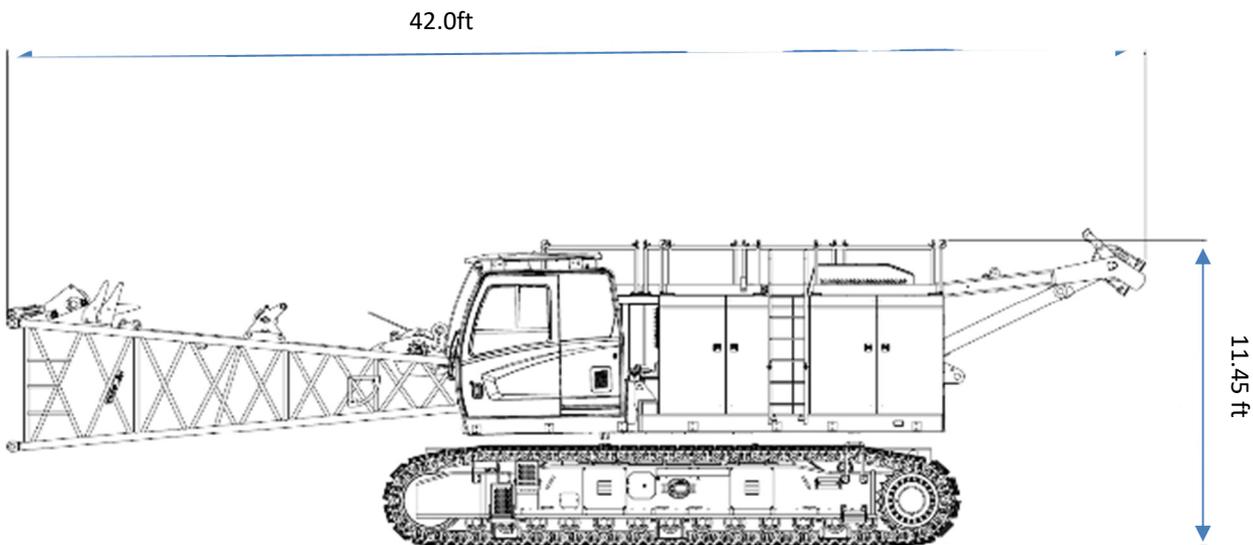
Fixed jib configuration	30 – 60 ft
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**Aux Jib**

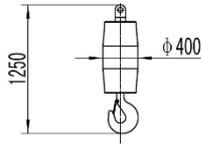
Aux jib , 1 sheave, 10.0 ton cap.	5 ft
Aux jib, 2 sheaves, 20.0 ton cap.	5 ft

**CRANE BODY**

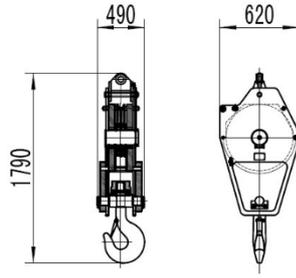
Length	: 42,0 ft (12.821 mm)
Height	: 11,45 ft (3.490 mm)
Width	: 10,99 ft (3.350 mm)
Weight	: 90.200 lbs (41.000 kgs)



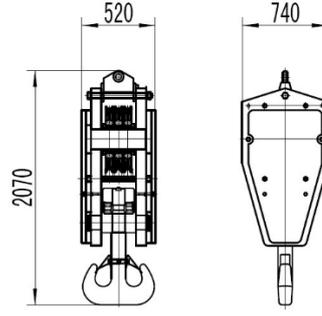
# HOOK BLOCKS



**Ball hook**  
Cap.: 27.500 lbs

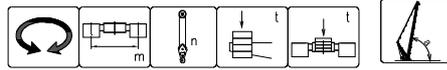


**Single sheave hook block**  
Cap.: 88.000 lbs



**3 – sheave hook block**  
Cap.: 176.000 lbs

# LOAD CHART MAIN BOOM



**BOOM TYPE 1414.01**

**360° 13,7ft 1-10 70,9 lbs 22 lbs 30-82°**

Loadcapacity in 1000 LBS

Boom length feet		42.6	52.5	63.0	72.0	82.0	92.0	102.0	111.5	121.0	131.0	141.0	151.0	161.0	171.0	180.0	190.0	
working radius feet	11.5	198.0																
	13.0	163.9	162.8	148.0														
	16.4	129.8	129.3	126.5	123.0	105.0												
	19.6	100.0	99.8	99.6	99.0	99.0	91.3	91.3										
	23.0	79.2	79.0	78.8	78.3	78.3	78.3	78.3	74.0	71.0								
	26.3	70.0	69.8	69.6	68.8	68.8	68.8	68.8	68.8	67.3	62.0							
	29.5	63.3	63.1	62.9	62.5	62.5	62.5	62.5	62.5	61.6	60.5	60.1	55.2					
	32.8	56.3	56.0	55.8	55.4	55.4	55.4	55.4	55.4	54.3	54.1	53.9	53.7	51.7	44.6			
	29.0	49.7	49.7	49.5	49.1	49.1	49.1	49.1	49.1	48.2	48.0	48.0	47.8	46.6	44.0	40.0	34.3	
	33.0	44.6	44.4	44.2	43.7	43.7	43.7	43.7	43.7	42.8	42.6	42.6	41.8	41.4	41.1	37.8	34.1	
	40.0		40.0	39.8	39.4	39.4	39.4	39.4	39.4	38.5	38.3	38.3	37.5	37.2	36.7	36.1	32.5	
	46.0		36.5	36.3	35.9	35.9	35.9	35.9	35.9	35.0	34.8	34.8	34.3	34.0	33.2	33.0	31.0	
	53.0		33.4	33.2	32.8	32.6	32.6	32.6	32.6	31.7	31.5	31.5	31.0	30.6	30.1	29.9	29.7	
	60.0			30.5	30.1	30.0	30.0	30.0	30.0	29.2	29.0	29.0	28.5	28.1	27.6	27.3	27.0	
	66.0				25.9	25.7	25.7	25.7	25.7	24.8	24.6	24.6	24.2	23.8	23.3	23.0	22.7	
	72.0				22.6	22.4	22.4	22.4	22.4	21.5	21.3	21.3	20.8	20.4	20.0	19.7	19.5	
	79.0					19.8	19.8	19.8	19.8	18.9	18.7	18.7	18.3	17.9	17.4	17.1	16.9	
	85.0						17.4	17.4	17.4	16.5	16.3	16.3	15.8	15.4	15.0	14.8	14.6	
	92.0							15.4	15.4	14.5	14.3	14.3	13.8	13.4	13.0	12.8	12.6	
	98.0								13.8	13.6	12.7	12.5	12.5	12.0	11.6	11.2	11.0	10.8
105.0									12.3	11.4	11.2	11.2	10.8	10.2	9.8	9.6	9.3	
112.0										10.8	10.6	10.6	10.2	9.7	9.4	9.1	8.8	
118.0											9.4	9.3	8.8	8.4	8.0	7.8	7.5	
125.0												8.2	8.0	7.5	7.1	6.7	6.4	6.2
131.0													7.3	6.8	6.4	6.0	5.7	5.5
138.0														6.3	5.8	5.4	5.1	4.9
144.0															5.5	5.0	4.7	4.5
151.0																4.6	4.4	4.2
157.0																	4.0	3.8

Above load chart is for reference only.

Operator must refer to Crane rating manuals and operator manuals to determine allowable crane lifting capacities, assembly and operating procedures.

Capacities are shown in kips (1 kip = 1000 lbs).

## TRANSPORT PLAN & WEIGHTS

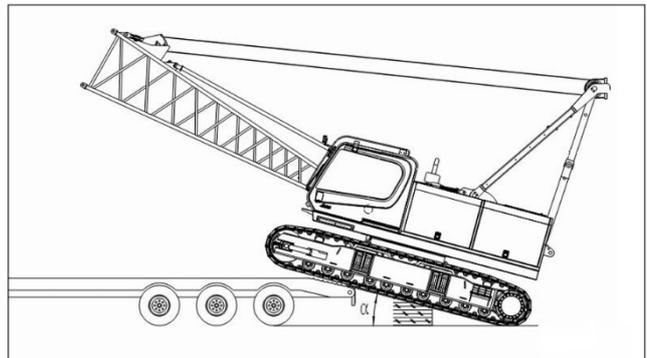
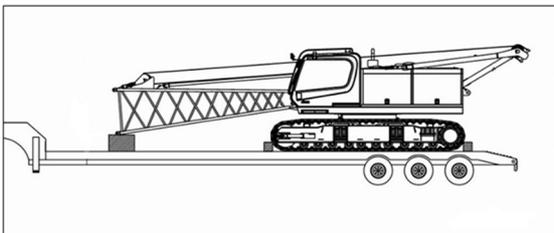
Transport Items	Gross Weights		Number Of Loads			
	Lbs	kgs	#1	#2	#3	#4
Crane Body with boom footand track frame (2x)	90 200	41 000	1			
Base Plate with self assembly cylinder	20 900	9 500		1		
Wing Counterweight A	10 010	4 550		1		
Wing Counterweight A	10 010	4 550		1		
Wing Counterweight B	10 010	4 550			1	
Wing Counterweight B	10 010	4 550			1	
Center Counterweight C	10 010	4 550			1	
Carbody Counterweight A	11 000	5 000			1	
Carbody Counterweight B	11 000	5 000				1
Main Boom insert section 10 ft	891	405				1
Main Boom insert section 20 ft	1 661	755				1
Main Boom insert section 30 ft	2 343	1 065			1	
Main Boom insert section 30 ft	2 343	1 065				1
Main Boom Head	2 574	1 170				
Hook Block, 1 sheave,44 tons capacity	1 210	550				1
Ball Hook, 13.5 tons capacity	770	350				1
Auxillary short jib	385	175				1
Fixed Jib boom foot with strut	1 089	495		*		
Fixed Jib insert section 15 ft with pendants	385	175		*		
Fixed Jib insert section 15 ft with pendants	385	175		*		
Fixed Jib Boom Head with pendants	649	295		*		
Shipping weight per load (approx)	lbs		90 200	40 920	43 373	18 260
	kgs		41 000	18 600	19 715	8 300

Basic crane with 131 ft main boom, 60 ft fixed jib, aux jib, 3 sheave hook block, ball hook and full counterweights.

NOTE: weights and dimensions may vary from above mentioned load plan. All truck loads, except crane body, are maximum 48,000 lbs (21,772 kgs), 8.5 ft wide, 8,5 ft load height based on a 48 ft long flat bed trailer. Variations due to local state law may be applicable in certain cases.

### Loading on Trailer

The CC100-1 can be loaded on a low bed trailer, complete with tracks assembled. Total weight is maximum 90.200 lbs



# Standard features

## Boom Stack System

Each boom section is equipped with a heavy duty boom stack system.

This integrated boom stack system allows the crane user to stack boom sections without using timber or other materials.



## Boom Pendants

Standard each boom section comes with pendant bars. Boom assembly is more easy and transport of boom sections is made more safe.



## Boom Pin Storage

Each boom section has integrated boom pin storage. This keeps the boom pin safe during transport and Ready for use when connecting the boom sections.



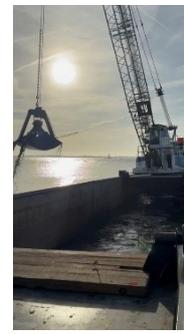
## Integrated Tool Box

Integrated toolbox in the front and rear carbody Counterweight.

Lockable with a key.



FOR MORE INFORMATION, CONTACT OUR DEALER:



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