

PVE AMERICAN CCT80-1



Telescopic Boom Crawler Crane

ENGLISH

IMPERIAL

PRODUCT BROCHURE

Complies with ANSI / ASME B30.5

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January 2026 edition

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Publisher

PVE AMERICAN

Everdenberg 17 · 4902 TT Oosterhout · The Netherlands

info@pve-american.com · www.pve-american.com

AT A GLANCE

STRONGER · SMARTER · SAFER



MAX. LIFTING CAPACITY

80 US ton

MAX. MAIN BOOM

124 ft

MAX. JIB

46 ft

BOOM TYPE

Telescopic

ENGINE

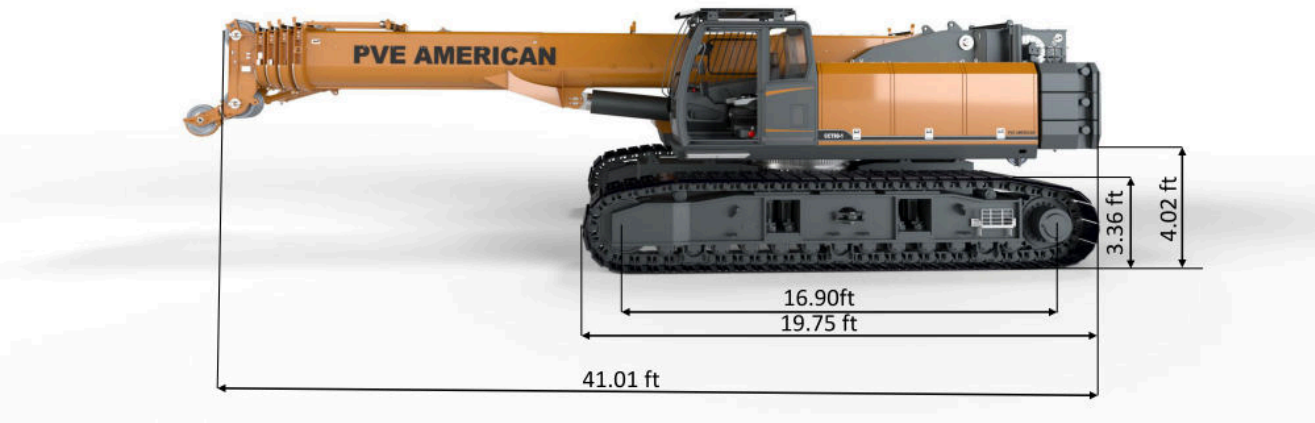
Cummins

COMPLIANCE

ANSI/ASME B30.5

DIMENSIONS

Side, plan and front views, imperial



Key dimensions

Overall length	41.0 ft	Track length	20.5 ft
Transport width	10.7 ft	Crane weight	77 US ton
Working width	15.7 ft	Counterweight	35,700 lb
Overall height	10.4 ft	Ground bearing pressure	10 psi

CRANE BODY & ENGINE

Cummins power · Bosch Rexroth drive · CAN-BUS control

Hydraulics & control

Bosch Rexroth pumps and motors power all winches, the crawlers and the swing drive. All movements can run simultaneously. Every hydraulic filter is monitored electronically and reports to the operator-cabin touch screen.

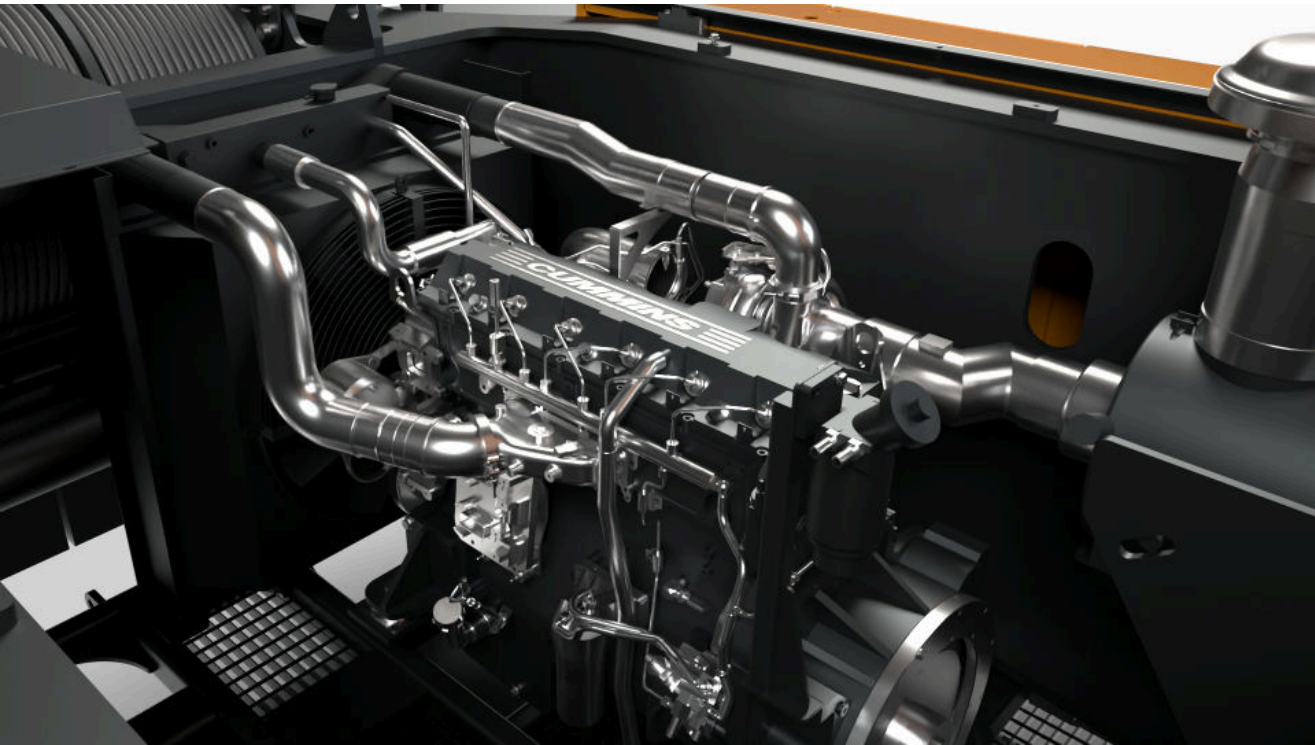
Control runs on a CAN-BUS network with PVE-developed software. The touch screen presents all functions, alerts and the Safe Load System. A 360° camera array (including dedicated winch and load cameras) keeps the work site visible. CRANEINFO logs operating data for service and factory support.

Key specifications

Engine make	Cummins
Control	CAN-BUS / touch screen
Cameras	360 deg + winch + load
Safe Load System	Integrated
Crane tracking	CRANEINFO
Slewing speed	0 to 1.96 rpm
Travel speed	up to 1.4 mph
Gradeability	30 percent
Ground bearing pressure	10 psi
Swing drive	Rexroth + roller bearing
Track rollers	Sealed, oil-filled

Engine & drive train

The crane is powered by a Tier-4F Cummins diesel coupled to the Bosch Rexroth hydraulic pack. Engine, hydraulics and crawlers are all monitored electronically and report to the touch screen. The crawlers are driven through planetary gear reduction units with sealed, oil-filled rollers for low maintenance; the turntable runs on a roller bearing with inner teeth and a Rexroth swing motor.



WINCHES

Main and auxiliary hoist

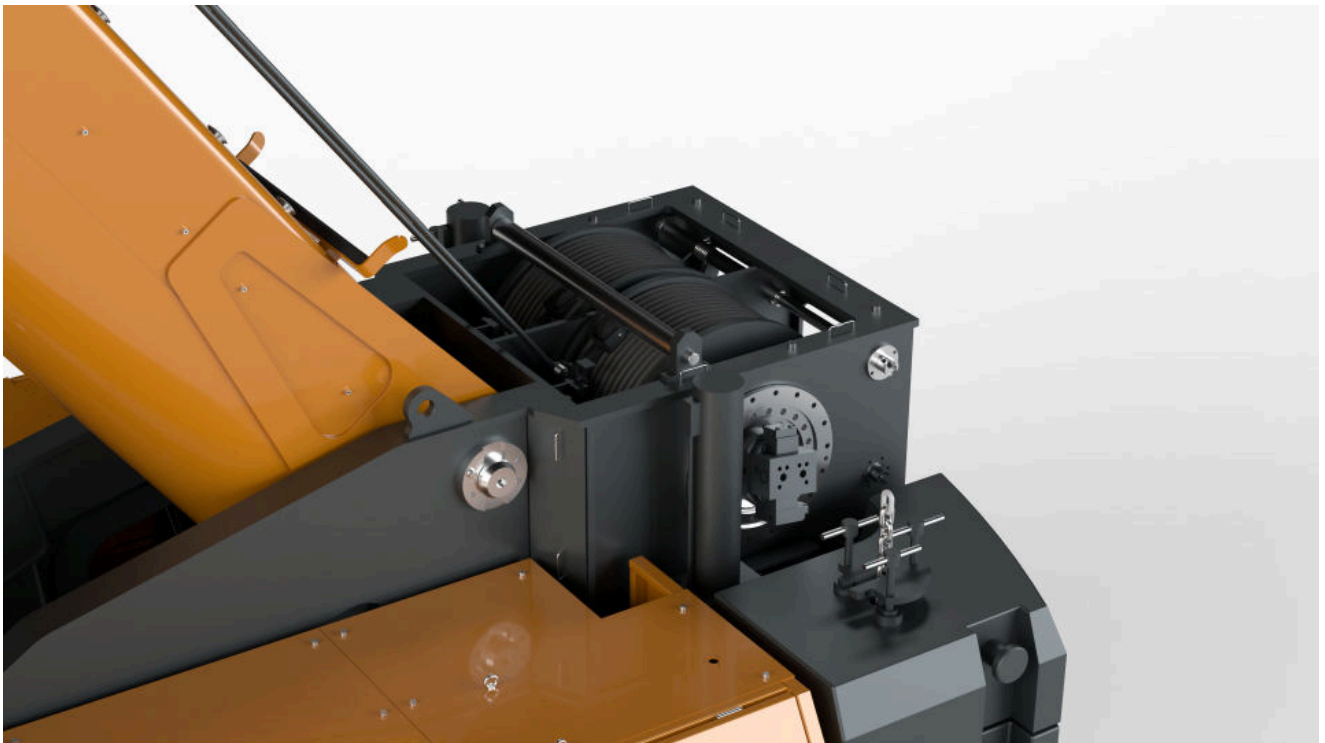
The CCT80-1 runs a main hoist winch and an auxiliary winch, both with low-maintenance multi-disc brakes. Rope layer and spooling are monitored electronically and shown on the cabin touch screen.

Main hoist winch

Rated single line pull	16,535 lb (73.5 kN)
Rope diameter	0.87 in (22 mm)
Rope speed	381 ft/min
Main winch rope length	656 ft
Brake	Multi-disc, spring applied, hydraulically released

Auxiliary winch

Auxiliary winch rope length	427 ft
Reeving	Single line to hook ball
Use	Whip line, runner and fixed-jib operation



OPERATOR CABIN

Comfort, visibility and integrated safety



The operator cabin is built around an air-suspended seat with integrated electric-hydraulic joysticks. The joysticks give the operator very precise control of every hydraulic function while a panoramic glass envelope and roof window keep the load and the work site in view at all times.

A single touch screen consolidates the Safe Load System, system diagnostics, and the live feed from the 360° camera array (including dedicated load and winch cameras). CRANEINFO logs operating data for factory support and predictive maintenance.

Standard features

- Air-suspended operator seat
- Electric-hydraulic joysticks
- Climate control, heated front window
- Touch-screen Safe Load System
- 360° camera array (winch + load + perimeter)
- CRANEINFO operating-data logger
- Roof-protection screen, FOPS rated

COUNTERWEIGHT

Fixed counterweight, no site assembly

The CCT80-1 carries a fixed counterweight on the upperstructure plus carbody weights. Nothing is stacked or self-erected on site, which keeps rig-up fast and transport simple.

Counterweight package

Upperstructure counterweight	35,700 lb (16.2 t)
Carbody weight	22,050 lb (10 t)
Total counterweight	57,750 lb (26.2 t)
Fitment	Factory-mounted, no site assembly



MAIN BOOM SYSTEM

35 to 124 ft full-power telescopic

The CCT80-1 carries a full-power telescopic main boom that extends from 35 ft to 124 ft (10.8 m to 38 m) with no assembly crane and no loose sections to handle. The boom telescopes hydraulically and derricks through a 0 to 83 degree range, so the crane can drive to the pick, rig in minutes and start lifting.

Boom assembly

For extra reach the boom head accepts a lattice extension: a long runner for a 38 + 2 m combination, or an offsettable fixed jib for a 38 + 8 + 6 m combination with up to 46 ft of jib. The fixed jib pins at 0, 20 or 40 degrees of offset.

Main-boom sections

Boom type	Full-power telescopic
Retracted length	35 ft (10.8 m)
Fully extended	124 ft (38 m)
Derricking angle	0 to 83 deg
Long runner	38 + 2 m combo
Fixed jib	up to 46 ft
Fixed-jib offset	0 / 20 / 40 deg



JIB CONFIGURATIONS

Available jib types and boom + jib combinations



BOOM

35 to 124 ft

Full-power telescopic main boom. Extends to 124 ft with no assembly crane.



LONG RUNNER

38 + 2 m combination

Lattice runner on the boom head for extra height. Max lifting capacity 7.5 t at 14 m radius.



FIXED JIB

up to 46 ft (8 + 6 m)

Offsettable fixed jib at 0, 20 or 40 degrees for reach past the load. Max lifting capacity 7.5 t at 7 m radius.

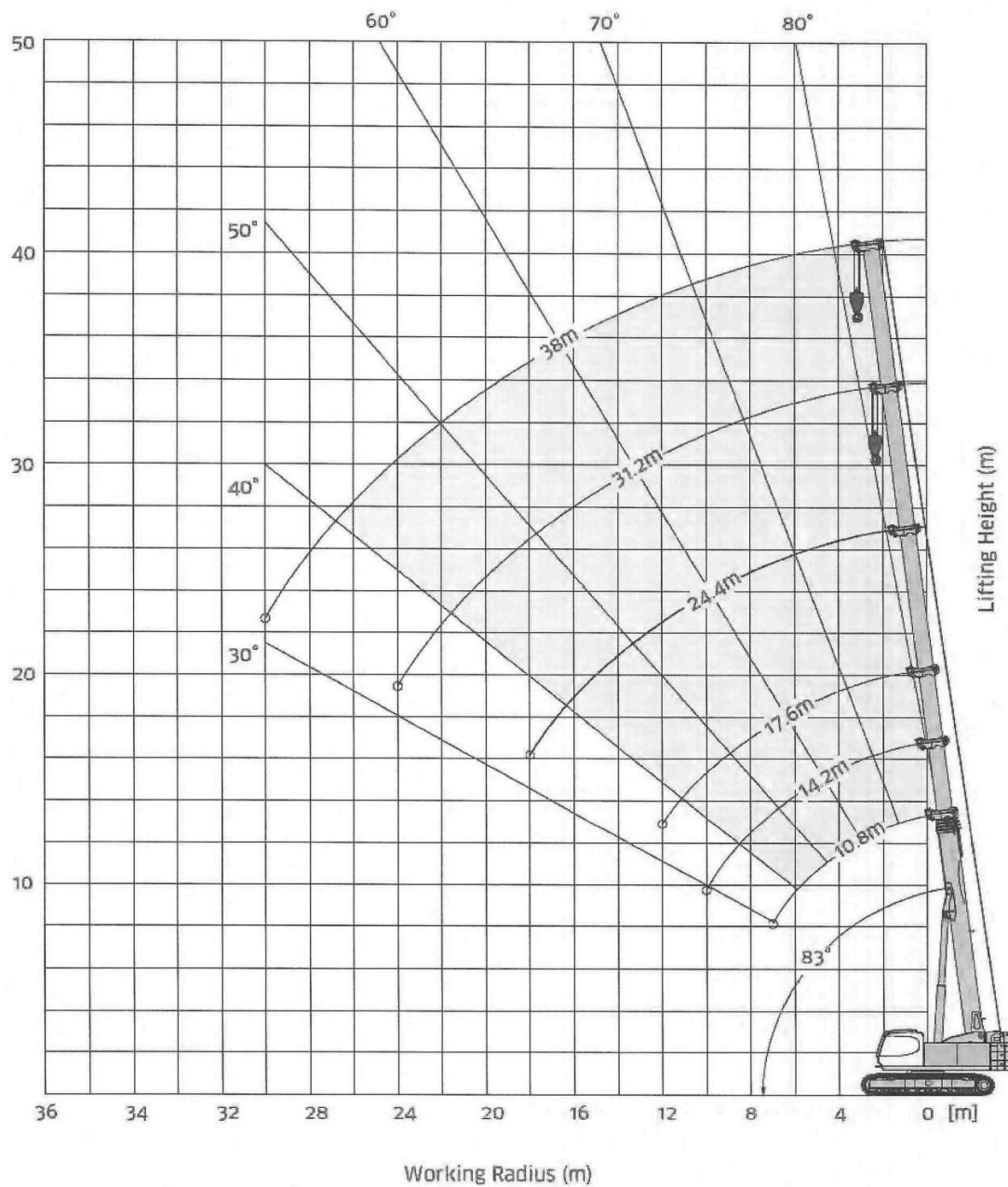
Actual lifting capacity depends on radius and counterweight. Consult the rating manual.

Boom + jib combinations

Main boom only	35 to 124 ft
Main boom + long runner	38 + 2 m (adds height)
Main boom + fixed jib	38 + 8 + 6 m, jib to 46 ft at 0 / 20 / 40 deg

WORKING RANGE

Main boom, 35 to 124 ft



Boom derricking 0 to 83 degrees. Curves shown for main-boom lengths 10.8 m to 38 m. Diagram axes in metres.
Preliminary. Refer to the load chart and operator's manual for rated capacities.

LOAD CHART

Main boom, imperial | CW 35,700 lb + carbody 22,050 lb

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

Radius (ft)	35 ft	47 ft	58 ft	80 ft	102 ft	125 ft
8.2	154.3*					
9.8	143.3	132.3	92.6	48.3		
11.5	127.9	126.8	92.6	48.3	45.9	
13.1	123.2	122.6	91.1	48.3	45.9	
14.8	109.1	108.5	87.7	48.3	45.0	32.4
16.4	103.0	94.4	83.1	48.3	44.3	32.4
19.7	78.0	67.7	67.5	48.3	41.0	32.4
23.0	60.6	59.5	51.4	43.9	37.5	32.0
26.2		47.8	40.8	39.9	34.2	30.4
29.5		39.5	38.8	36.4	31.3	27.6
32.8		33.3	32.6	33.7	28.9	25.6
36.1			27.8	30.2	26.2	23.1
39.4			23.8	26.2	24.3	20.9
45.9				20.3	20.1	17.6
52.5				16.1	17.0	15.0
59.1				13.0	14.1	13.9
65.6					11.7	11.9
72.2					9.7	10.4
78.7					7.9	8.8
85.3						7.3
91.9						6.2
98.4						5.3

* Special equipment required.

Capacities in lbs × 1,000 (1,000 lb = 1 kip). Preliminary lifting table, may deviate after calculations.

Boom columns 35 / 47 / 58 / 80 / 102 / 125 ft = 10.8 / 14.2 / 17.6 / 24.4 / 31.2 / 38 m. Counterweight 16.2 t (35,700 lb), carbody 10 t (22,050 lb).

HOOK BLOCKS

Interchangeable lift configurations



5-SHEAVE HOOK

Capacity 154,000 lb

Ten-part reeving. Block weight 1,455 lb.



HOOK BALL

Capacity 19,800 lb

Single-line whip and runner hook. 550 lb.

TRANSPORT

Travels as a single unit

The CCT80-1 moves as one machine. With the telescopic boom retracted and the tracks drawn in, the complete crane travels on a single lowboy: no assembly crane, no counterweight trucks and no boom sections to ship or re-pin on site.

Transport figures

Transport weight, complete crane	77 US ton
Transport length	41.0 ft (12.50 m)
Transport width, tracks retracted	10.7 ft (3.26 m)
Transport height	10.4 ft (3.16 m)
Working width, tracks extended	15.7 ft (4.80 m)
Ground bearing pressure	10 psi (0.07 MPa)



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