



# Cat<sup>®</sup> 285 XE

## COMPACT TRACK LOADER

### FEATURES:

The Cat<sup>®</sup> 285 XE Compact Track Loader, with its vertical lift design, delivers extended reach and lift height for quick and easy truck loading. Its standard equalizer bar (E-bar) undercarriage system and two speed travel provides superior traction, flotation, and stability to work in a wide range of applications and underfoot conditions. The 285 XE features the following:

- **Redesigned Operator Station** delivers a larger operating environment, and combined with additional seat travel, the 285 XE provides more space for operators of any size. The optional **one-piece, sealed, and pressurized cab** offers a clean and quiet workspace with excellent air distribution through optimally placed vents throughout the cab.
- **Available ventilated and heated high-back air ride seat** with seat-mounted adjustable joystick controls deliver industry-leading operator comfort.
- **High-performance power train** provides standard two-speed travel, combined with the optional Speed Sensitive Ride Control system for operation on rough terrain, enabling better load retention, increased productivity, and greater operator comfort.
- **The XE Hydraulic System** provides the highest flow and highest pressure in the Cat Compact Track Loader line-up to deliver industry leading hydraulic horsepower to efficiently run even the most power hungry attachments.
- **High Horsepower, High Torque Engine** with Electronically controlled Cat<sup>®</sup> C3.6TA (turbocharged, after-cooled) engine that meets U.S. EPA Tier 4 Final and EU Stage V emission standards while delivering maximum horsepower across a wide RPM range and providing high torque for increased working performance, no matter the application.
- **Standard equalizer bar (E-bar) undercarriage and standard two-speed travel.** Harnessing Caterpillar's heritage and leadership with track-type tractors, the standard **E-bar CTL undercarriage** provides a hybrid undercarriage solution delivering the benefits of a rigid style undercarriage design when lifting heavy loads or when using heavy attachments (example: mulcher, dozer blade, grader blade), while also providing the benefits of an oscillating undercarriage design when encountering terrain or obstacles.
- **Maximize machine capability and control with the Advanced Joysticks and Advanced Touchscreen Monitor.** The **20.3 cm (8-inch) Advanced Touchscreen Monitor** offers cutting-edge functionality and control that includes an integrated radio, Bluetooth<sup>®</sup> connectivity, and multi-camera (side-view) option, and supports 32 different language choices. The **Advanced Joysticks** provide unmatched control of machine functions and adjustments within the monitor without operators having to remove their hands from the controls. This includes the on-joystick navigation of the Advanced Touchscreen Monitor, radio volume up/down/mute, creep activation, creep on/off, creep speed increment/decrement, one-button Smart Attachment control activation, and additional auxiliary control buttons that deliver single-button control of complex attachment functions.
- **Available Rear Auxiliary ready** option provides hydraulic valving and lines that deliver a method to power hydro-mechanical attachments that mount to the rear of the machine (such as a rear scarifier, winch, etc.).
- **Ground-level access** to all daily service and routine maintenance points help reduce machine downtime for greater productivity.
- **Broad range of performance-matched Cat Attachments** make the Cat Compact Track Loaders the most versatile machine on the job site.

## Specifications

### Engine

Engine Model	US EPA Tier 4 Final/ EU Stage V, Cat C3.6TA (turbocharged and after-cooled)	
Maximum Gross Power ISO 14396:2002 (at 2200 RPM) – with High Flow Attachment connected	100 kW	134.1 hp
Gross Power SAE J1995:2014	91 kW	121 hp
Net Power SAE 1349:2011	90 kW	121 hp
Net Power ISO 9249:2007	89 kW	120 hp
Peak Torque at 1,500 rpm SAE J1995:2014	551 N·m	406 lbf·ft
Displacement	3.6 L	220 in <sup>3</sup>
Stroke	120 mm	4.7 in
Bore	98 mm	3.9 in

- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan at minimum speed, air intake system, exhaust system, and alternator.

### Weights\*

Operating Weight	6200 kg	13,669 lb
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\*Operating Weight, Operating Specifications and Dimensions all based on 75 kg (165 lb) operator, all fluids, two speed, 2188 mm (86 in) low profile bucket, 400 mm (15.7 in) tracks, triple flange front/rear idler, XE hydraulics, enclosed cab with glass door, side windows, heater, air suspension seat, advanced monitor, 1000 CCA battery, no optional counterweights and manual quick coupler (unless otherwise noted).

### Power Train

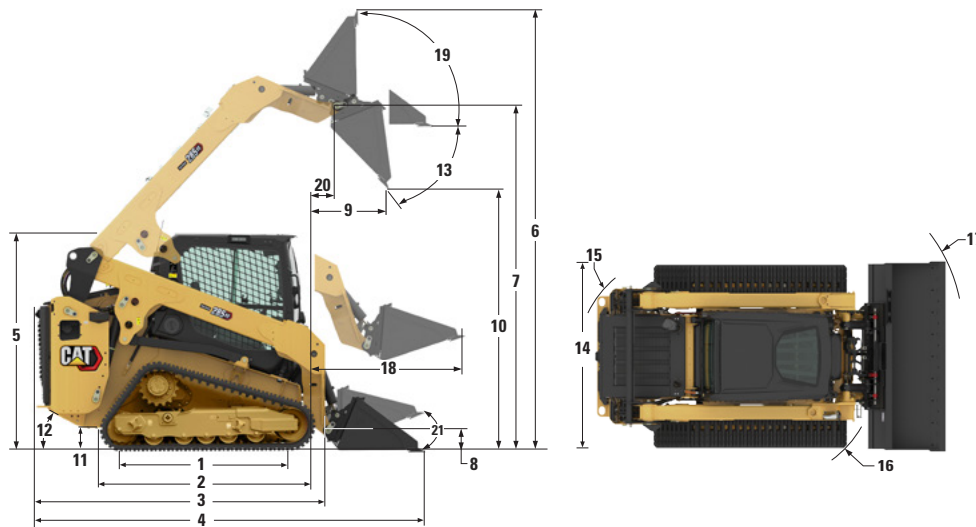
Travel Speed (Forward or Reverse)		
One Speed	7.8 km/h	4.8 mph
Two Speed	12.4 km/h	7.7 mph

### Cab

Rollover Protective Structure (ROPS)	ISO 3471:2008
Falling Object Protective Structure (FOPS)	ISO 3449:2005 Level I
	ISO 3449:2005 Level II (Optional)



# 285 XE Compact Track Loader



## Dimensions\*

1 Length of Track on Ground	1830 mm	72.0 in	12 Departure Angle	26°
2 Overall Length of Track	2170 mm	85.8 in	13 Maximum Dump Angle	40.5°
3 Length without Bucket	3360 mm	132.3 in	14 Vehicle Width (400 mm/15.7in tracks)	2028 mm 79.8 in
4 Length with Bucket on Ground	3998 mm	157.4 in	Vehicle Width (450 mm/17.7 in tracks)	2078 mm 81.8 in
5 Height to Top of Cab	2230 mm	87.8 in	15 Turning Radius from Center – Machine Rear	1887 mm 74.3 in
6 Maximum Overall Height	4520 mm	178.0 in	16 Turning Radius from Center – Coupler	1578 mm 62.1 in
7 Bucket Pin Height at Maximum Lift	3724 mm	146.6 in	17 Turning Radius from Center – Bucket (racked)	2400 mm 94.5 in
8 Bucket Pin Height at Carry Position	209 mm	8.2 in	18 Maximum Reach with Arms Parallel to Ground	1285 mm 50.6 in
9 Reach at Maximum Lift and Dump	882 mm	34.7 in	19 Rack Back Angle at Maximum Height	89°
10 Clearance at Maximum Lift and Dump	3039 mm	119.6 in	20 Bucket Pin Reach at Maximum Lift	875 mm 34.4 in
11 Ground Clearance	280 mm	11.0 in	21 Roll Back Angle (ground level)	27.2°

## Service Refill Capacities

Cooling System	17.5 L	4.6 gal
Engine Crankcase	9.0 L	2.4 gal
Fuel Tank	136.1 L	36.0 gal
Hydraulic System	41.0 L	10.8 gal
Hydraulic Tank	26 L	6.9 gal
Diesel Exhaust Fluid (DEF) Tank	11.0 L	2.9 gal
External Fuel Tanks (optional) (adds to standard fuel tank)	85.4 L	22.6 gal

## Hydraulic System

Hydraulic Flow - Standard:		
Loader Hydraulic Pressure	24 130 kPa	3,500 psi
Loader Hydraulic Flow	86 L/min	23 gal/min
Hydraulic Power (calculated)	34.6 kW	46.4 hp
Hydraulic Flow - High Flow XPS†:		
Loader Hydraulic Pressure	28 000 kPa	4,061 psi
Loader Hydraulic Flow	129 L/min	34 gal/min
Hydraulic Power (calculated)	60.2 kW	80.7 hp
Hydraulic Flow - High Flow XET‡:		
Loader Hydraulic Pressure	31 000 kPa	4,496 psi
Loader Hydraulic Flow	150 L/min	40 gal/min
Hydraulic Power (calculated)	77.5 kW	103.9 hp

†When equipped with 400 Series Cat attachments.

‡When equipped with 300 Series Cat attachments.

## Operating Specifications\*

Enclosed Cab:			
Operating Weight	6200 kg	13,669 lb	
Tipping Load	5868 kg	12,915 lb	
Rated Operating Capacity (ROC) (35%)	2050 kg	4,520 lb	
Rated Operating Capacity (50%)	2929 kg	6,457 lb	
Ground Contact Area (400 mm/15.7 in tracks)	1.56 m <sup>2</sup>	2,421 in <sup>2</sup>	
Ground Contact Area (450 mm/17.7 in tracks)	1.76 m <sup>2</sup>	2,724 in <sup>2</sup>	
Ground Pressure (400 mm/15.7 in tracks)	38.9 kPa	5.6 psi	
Ground Pressure (450 mm/17.7 in tracks)	34.7 kPa	5.0 psi	
Counterweight Adds:			
Operating Weight	+194 kg	+428 lb	
Tip Load	+384 kg	+847 lb	
Rated Operating Capacity (35%)	+134 kg	+296 lb	
Rated Operating Capacity (50%)	+192 kg	+423 lb	
Breakout Force, Tilt Cylinder	6314 kg	13,920 lb	
Breakout Force, Lift Cylinder	3960 kg	8,730 lb	

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit <https://www.caterpillar.com/en/company/sustainability>.

## Engine

- The Cat® C3.6TA (turbocharged and after-cooled) engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels\*\* up to:
  - ✓ 20% biodiesel FAME (fatty acid methyl ester)\*
  - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

\*Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).

\*\*Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

## Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf (Europe). See label or instruction manual for gas refrigerant identification. If machine is provided with R134a (Global Warming Potential = 1430), the system contains 0.85 kg (1.87 lbs) of refrigerant, which has a CO<sub>2</sub> equivalent of 1.216 metric tons (1.34 tons). If machine is provided with R1234yf (Global Warming Potential = 0.501), the system contains 0.85 kg (1.87 lbs) of refrigerant, which has a CO<sub>2</sub> equivalent of 0.00043 metric tons (0.00047 tons).

## Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
  - Barium < 0.01%
  - Cadmium < 0.01%
  - Chromium < 0.01%
  - Lead < 0.01%

## Sound Performance

Operator Sound Pressure Level\* 82 dB(A) (ISO 6396:2008)

Exterior Sound Power Level\*\* 105 dB(A) (ISO 6395:2008)

- Cab and ROPS are standard in North America and Europe.
  - \*The declared dynamic operator sound pressure levels per ISO 6395:2008. The measurements were conducted with the cab doors and windows closed and at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds.
  - \*\*The labeled sound power level for the CE/UKCA marked configurations when measured according to the test procedure and conditions specified in European Union Directive "2000/14/EC" as amended by "2005/88/EC" and UK Noise Regulation 2001 No. 1701.

## Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

## Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
  - Extended life coolant and long life hydraulic fluid extend maintenance intervals to reduce fluid consumption
  - Boost productivity with Cat technologies like work tool positioner, return to dig and Cat Smart Attachments
  - Save fuel with efficiency features such as foot throttle pedal and cooling system demand fan
  - Remote machine monitoring through onboard Product Link telematics

## Recycling

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	60.78%
Rubber	18.53%
Iron	9.53%
Nonferrous Metal	2.72%
Fluid	1.64%
Plastic	1.56%
Other	1.51%
Uncategorized	1.20%
Mixed Metal	1.07%
Mixed-Metal and Nonmetal	0.99%
Lead (Batteries)	0.47%
Mixed Nonmetallic	0.00%
Total	100.00%

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714:2008 (Earth-moving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused or both.

All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714:2008 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

Because of variations of product configurations, the following values in the table may vary.

Recyclability – 96%

The data provided above was based on the product configuration as provided by the individual product group.

# 285 XE Compact Track Loader

## ATTACHMENTS

Get more from your machine with Cat attachments. Choose from a wide variety of options and tailor your machine to different tasks and conditions.

- Augers
- Backhoes
- Bale Grabs
- Bale Spears
- Blades, Grader, Box, Angle and Dozer
- Brooms, Angle, Pickup and Utility
- Brushcutters
- Buckets
- Cold Planers
- Compactors
- Fork Tines and Carriages
- Hammers
- Material Handling Arm
- Mulchers
- Nursery Forks
- Rakes, Grapple, Landscape and Power Box
- Shears
- Snow Blowers
- Snow Plows
- Snow Pushes
- Snow Wings
- Stump Grinders
- Tillers
- Trenchers
- Wheel Saws
- Smart Backhoe
- Smart Dozer Blade with Assist
- Smart Grader Blade with Assist



## MANDATORY EQUIPMENT

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- Quick Coupler: Manual or Hydraulic
- High Visibility Seat Belt: 50 mm (2 in), 75 mm (3 in), or 3-point lap/shoulder
- Steel Imbed Rubber Track – 400 mm (15.7 in) block tread, 450 mm (17.7 in) block tread, 450 mm (17.7 in) bar tread
- Dual Flange Front Idler/Single Flange Rear Idler or Triple Flange Front/Rear Idlers

## PERFORMANCE PACKAGES

- Performance Package HP5: *XE Hydraulics*
- Performance Package HP6: *XE Hydraulics, Rear Auxiliary Ready*

## COMFORT PACKAGES

- Enclosed Cab with heat and air conditioning: *Side Windows, Cup Holder, Cell Phone Pocket, choice of Seat, High Back/Heated Air Ride Seat, or High Back/Ventilated and Heated Air Ride Seat and Door choice (Glass or Polycarbonate)*

## TECHNOLOGY PACKAGES

- T4 – *Advanced Touchscreen Monitor, Advanced Joysticks, Push start, X-mount cell phone holder, and a Rear-view camera.*
- T5 – *T4 + 2 additional side view cameras.*

## RADIO

- Radio, *none – for open canopy machines and countries not certified for Bluetooth® technology*
- Integrated AM/FM radio with Bluetooth technology. *Includes USB port, 3.5 mm (0.13 in) Auxiliary (AUX) input, and Bluetooth microphone. Only for use with enclosed cab. Availability varies by country.*
- Integrated DAB+/AM/FM radio with Bluetooth technology. *Includes USB port, 3.5 mm (0.13 in) AUX input, and Bluetooth microphone. Only for use with enclosed cab. Availability varies by country.*

## PRODUCT LINK™

- Product Link™ Basic series PL243
- Product Link Elite series PLE643

## COOLING FAN

- On-demand, variable speed hydraulic cooling fan
- On-demand, variable speed hydraulic cooling fan, with automatic and manual purge reversing operation

## GUARDING AND SEALING PACKAGES

- HD1 – intermediate guarding and sealing\* (engine air inlet rain cap, front cab-to-frame sealing, hydraulic fill access door, cab to frame side sealing, lockable fuel fill access door, and tilt cylinder guarding.)
- LM1 – intermediate level land management guarding and sealing\* (HD1 + turbo guard, exhaust stack wrap, Diesel Particulate Filter (DPF)/Emission component wraps, light guarding, quick disconnect guarding, hydraulic lines guard cover (under step), screw-to-connect auxiliary hydraulic couplings, and engine air inlet pre-cleaner.)
- LM2 – most comprehensive land management guarding and sealing\* (HD1 + increased fuel capacity (220 L/58 gal), turbo guard, exhaust stack wrap, DPF/Emission component wraps, light guarding, quick disconnect guarding, hydraulic lines guard cover (under step), screw-to-connect auxiliary hydraulic couplings, and engine air inlet pre-cleaner.)

\*Some equipment varies by region.

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## STANDARD EQUIPMENT

### ELECTRICAL

- Work Tool Electrical Harness
- Heavy duty battery
- Battery disconnect with lockout feature
- 12-volt Electrical System
- 100 Ampere Alternator
- LED Work Lights
- Auto Reverse Lights
- Switch Backlighting
- Interior LED Dome Light
- Backup Alarm
- Electrical Outlet, Beacon
- Exterior Courtesy Lighting

### OPERATOR ENVIRONMENT

- Full color LCD monitor: *Creep speed control, Drive response adjustment, Implement response adjustment, Drive Power Priority adjustment, Language selection (× 32), Multi-operator Anti-theft Security System and Monitoring, Maintenance schedule and reminders, Event and Diagnostic Code monitoring, Date /Time/ Units/Brightness settings, and Smart Technology for use with Smart Attachments.*
- Operator Warning System Indicators: *Air Filter Restriction, Alternator Output, Armrest Raised/Operator Out of Seat, Engine Coolant Temperature, Engine Oil Pressure, Glow Plug Activation, Hydraulic Supply Filter Restriction, Hydraulic Oil Temperature, Park Brake Engaged, Engine Emission System (where applicable)*
- Gauges: *Fuel Level, Hour Meter, Hydraulic Temperature, Hour Meter, Battery Voltage, Tachometer*
- Fold In Ergonomic Contoured Armrest
- Control Interlock System, when operator leaves seat or armrest raised: *Hydraulic System Disables, Hydrostatic Transmission Disables, Parking Brake Engages*
- ROPS Cab, Tilt Up
- FOPS, Level I
- Top and Rear Windows
- Floor Mat
- Headliner
- Interior Rearview Mirror
- Horn
- Hand (Dial) Throttle, Electronic
- Seat Mounted Joystick Controls
- Cell Phone Storage Pocket
- Cup Holder
- 12-volt power port
- Foot Throttle

### HYDRAULICS

- Selectable control pattern – ISO or H
- Electro/hydraulic implement control
- Electro/hydraulic hydrostatic transmission control
- Speed sensor guarding
- Heavy duty flat faced quick disconnects with integrated pressure release lever and case drain
- Hydraulic oil level sight gauge

### POWER TRAIN

- Cat C3.6TA turbocharged, after-cooled diesel engine, meeting Tier 4 Final and Stage V Emission Standards:
  - Glow plugs starting aid
  - Liquid cooled, direct injection
- Extended life antifreeze (–37° C, –34° F)
- Air cleaner, dual element, radial seal
- Scheduled Oil Sampling (S-O-S<sup>SM</sup>) Valve, Hydraulic Oil
- Ecology drain – coolant
- Radiator coolant level sight gauge
- Radiator expansion bottle
- Filter, hydraulic supply, cartridge type
- Filter, hydraulic return, cartridge type
- Filter, canister type, engine oil
- Filter, canister type, fuel and water separator
- Radiator/hydraulic oil
- Cooler (side-by-side)
- Spring applied, hydraulically released, parking brakes
- Hydrostatic transmission
- Lockable fuel cap
- Hydraulic demand cooling fan
- Auto engine idle

### UNDERCARRIAGE

- E-bar (equalizer bar) suspension
- Two speed travel
- Integrated tie downs on track frame (4)

### FRAME

- Machine tie down points (9)
- Removable panels for machine frame cleanout
- Support, lift arm
- Steel rear and front bumpers, welded
- Fuel fill, machine right hand side

### OTHER

- Auxiliary Hydraulics, Continuous Flow
- Telematics, Product Link, Cellular
- Steel engine door with replaceable louvers
- Engine door – lockable
- Work tool attachment coupler
- Cat ToughGuard<sup>TM</sup> hose

## OPTIONAL EQUIPMENT

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- External Counterweights
- Beacon, LED
- Oil, Hydraulic, Cold Operation
- 4-point machine lifting eyes
- Paint, Custom
- Speed Sensitive Ride Control
- Bluetooth Key Security
- Attachment Hose Guide
- Corrosion Inhibitor Coating

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