



Cat® 253

COMPACT TRACK LOADER

FEATURES:

The Cat® 253 Compact Track Loader, with its rigid, frame-mounted axles combined with a one-piece undercarriage frame delivers improved power and stability to work in a wide range of applications and underfoot conditions. The 253 features the following:

- **One-piece sealed and pressurized cab** option provides a cleaner and quieter operating environment with excellent work tool visibility.
- **High-back, heated, air ride seats** with seat mounted adjustable joystick controls provide all-day operator comfort.
- **High-performance power train** provides maximum performance and production capability through the Electronic Torque Management system, standard two speed travel and an electronic hand/foot throttle with decel pedal capability.
- **High Flow hydraulic system** is available on cab machines in applicable regions for applications that demand maximum hydraulic work tool performance.
- **Electronically controlled Cat C3.3B engine** provides high horsepower and torque while meeting U.S. EPA Tier 4 Final emission standards.
- **Integrated technology** brings together available features such as dual self-level, work tool return-to-dig, and work tool positioner.
- **Standard Next Generation one-piece undercarriage with four rigid, frame-mounted axles** provides improved stability, traction, and load control.
- **Maximize machine capability and control** with the standard full color LCD display providing on-screen adjustments for implement response, hystat response and creep control. It also features multi-language functionality with customizable layouts, security system and rearview camera.
- **Ground-level access** to all daily service and routine maintenance points helps reduce machine downtime for greater productivity.
- **Broad range of performance-matched Cat Attachments** make the Cat Compact Track Loader the most versatile machine on the job site.

Specifications

Engine

Engine Model	Cat® C3.3B DIT (turbo)	
Gross Power SAE J1995	53.8 kW	72.1 hp
Net Power SAE 1349	53 kW	71.1 hp
Net Power ISO 9249	53.5 kW	71.7 hp
Peak Torque at 1,500 rpm SAE J1995	265 N·m	195.5 lbf·ft
Displacement	3.3 L	201.4 in³
Stroke	120 mm	4.7 in
Bore	94 mm	3.7 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	4238 kg	9,343 lb
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*Operating Weight, Operating Specifications, and Dimensions are all based on 1730 mm (68") Low Profile Bucket with bolt-on cutting edge, 380 mm (15") track, 75 kg (165 lb) operator, open canopy, two speed, dual flange front idler/single flange rear idler, standard flow hydraulics, air suspension seat, manual quick coupler and no optional counterweights (unless otherwise noted).

Power Train

Travel Speed (Forward or Reverse)		
One Speed	9.5 km/h	5.9 mph
Two Speed	13.7 km/h	8.5 mph

Cab

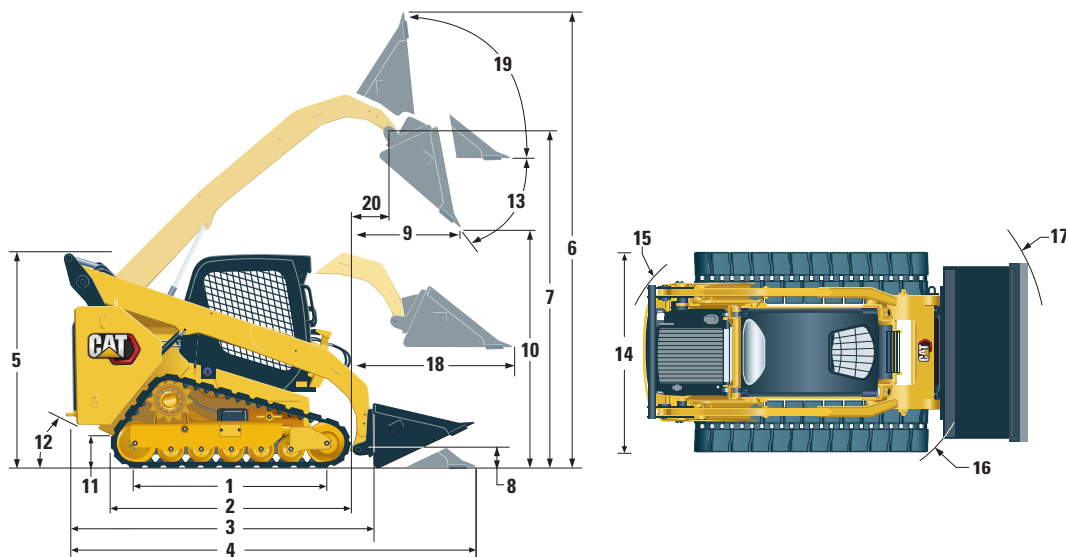
Rollover Protective Structure (ROPS)	ISO 3471:2008
Falling Object Protective Structure (FOPS)	ISO 3449:2005 Level I

Service Refill Capacities

Cooling System	14 L	3.7 gal
Engine Crankcase	11 L	2.9 gal
Fuel Tank	94 L	24.8 gal
Hydraulic System	50 L	13.2 gal
Hydraulic Tank	39 L	10.3 gal



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Dimensions*

1 Length of Track on Ground	1485 mm	58.5 in	12 Departure Angle	35°
2 Overall Length of Track	1940 mm	76.4 in	13 Maximum Dump Angle	52°
3 Length without Bucket	2767 mm	108.9 in	14 Vehicle Width (380 mm/15 in tracks)	1760 mm 69.3 in
4 Length with Bucket on Ground	3415 mm	134.4 in	15 Turning Radius from Center – Machine Rear	1533 mm 60.4 in
5 Height to Top of Cab	2098 mm	82.6 in	16 Turning Radius from Center – Coupler	1432 mm 56.4 in
6 Maximum Overall Height	3840 mm	151.2 in	17 Turning Radius from Center – Bucket (racked)	2203 mm 86.7 in
7 Bucket Pin Height at Maximum Lift	3066 mm	120.7 in	18 Maximum Reach with Arms Parallel to Ground	1275 mm 50.2 in
8 Bucket Pin Height at Carry Position	190 mm	7.5 in	19 Rack Back Angle at Maximum Height	87°
9 Reach at Maximum Lift and Dump	586 mm	23.1 in	20 Bucket Pin Reach at Maximum Lift	272 mm 10.7 in
10 Clearance at Maximum Lift and Dump	2313 mm	91.1 in		
11 Ground Clearance	218 mm	8.6 in		

Hydraulic System

Hydraulic Flow – Standard:

Loader Hydraulic Pressure	23 000 kPa	3,336 psi
Loader Hydraulic Flow	76 L/min	20 gal/min
Hydraulic Power (calculated)	29 kw	39 hp

Hydraulic Flow – High Flow:

Loader Hydraulic Pressure	23 000 kPa	3,336 psi
Loader Hydraulic Flow	112 L/min	30 gal/min
Hydraulic Power (calculated)	43 kW	58 hp

Operating Specifications*

Rated Operating Capacity:

35% Tipping Load	912 kg	2,011 lb
50% Tipping Load	1303 kg	2,873 lb

Rated Operating Capacity with Optional Counterweight

35% Tipping Load	985 kg	2,172 lb
50% Tipping Load	1407 kg	3,102 lb

Tipping Load	2606 kg	5,745 lb
Breakout Force, Tilt Cylinder	2451 kg	5,404 lb
Breakout Force, Lift Cylinder	2097 kg	4,623 lb
Ground Contact Area (380 mm/15 in track)	1.13 m ²	1,749 in ²
Ground Pressure (380 mm/15 in track)	36.8 kPa	5.3 psi

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® C3.3B DIT (turbo) engine meet U.S. EPA Tier 4 Final 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.

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 CO₂ 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 CO₂ 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

Inside Cab* – 83 dB(A)

Outside Cab** – 103 dB(A)

- 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 marked configurations when measured according to the test procedure and conditions specified in 2000/14/EC.

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	64.94
Rubber	8.85
Iron	7.66
Other	4.57
Nonferrous Metal	3.90
Fluid	3.43
Plastic	2.31
Mixed Metal	2.00
Mixed-Metal and Nonmetal	1.18
Uncategorized	1.16
Mixed Nonmetallic	0.01
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 – 95%

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

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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

PERFORMANCE PACKAGES

- **Performance Package H2:** *Standard Flow Hydraulics, Dual Direction Electronic Self-Level (Raise and Lower), Work Tool Return-to-Dig, Work Tool Positioner, and Electronic Snubbing (Raise and Lower)*
- **Performance Package H3:** *High Flow Hydraulics, Dual Direction Electronic Self-Level (Raise and Lower), Work Tool Return-to-Dig, Work Tool Positioner, and Electronic Snubbing (Raise and Lower) – Cab Only**

COMFORT PACKAGES

- Open canopy: *Foot Throttle, Headliner, Cup Holder, Vinyl Air Ride Seat (High Back, Heated), No Heater or Door*
- Enclosed Cab with heat and air conditioning: *Foot Throttle, Headliner, Heater and Defroster, Air Conditioner, Side Windows, Cup Holder, Cloth Air Ride Seat (High Back, Heated), Glass Door*

RADIO

- Radio, none – Canopy only
- Bluetooth® Radio with Microphone (AM/FM/Weather Band Receiver with USB and Auxiliary Input Jack) – Cab only

PRODUCT LINK™

- Product Link PL641, Cellular

COUPLER

- Manual – Canopy
- Hydraulic – Cab

LIGHTING

- Standard 2 Front and 2 Rear LED Work Lights – Cab and Canopy
- Rear Lights (red) – Canopy only

ENGINE

- Engine Block Heater 120V – Cab only
- Heater, none – Canopy

*Only in applicable regions

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STANDARD EQUIPMENT

ELECTRICAL

- 12-volt Electrical System
- 80 Ampere Alternator
- Ignition key start/stop switch
- Lights: two adjustable front and rear LED lights
- Backup Alarm
- Heavy duty battery, 850 CCA
- Lockable battery disconnect switch

OPERATOR ENVIRONMENT

- Full Color LCD Display with Rearview Camera: *127 mm (5 in) LCD screen; Advanced Multi-operator Security System; On-screen Adjustments for Implement Response, Hystat Response, Self-Level, and Creep Control*
- 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*
- 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/Canopy, Tilt Up
- FOPS, Level I
- Top and Rear Windows
- Floor Mat
- High Visibility Seat Belt, 76.2 mm (3 in)
- Interior Rearview Mirror
- Horn
- Hand (Dial) Throttle, Electronic
- Adjustable Joystick Controls
- ISO or H pattern controls
- Anti-theft security system with 6-button keypad
- 12-volt power port
- Storage compartment with netting

POWER TRAIN

- Cat C3.3B turbocharged diesel engine, meeting Tier 4 Final Emission Standards
- Air cleaner, dual element, radial seal
- Scheduled Oil Sampling (S-O-SSM) Valve, Hydraulic Oil
- Filter, cartridge-type, hydraulic
- Filter, canister type, fuel and water separator
- Radiator/hydraulic oil cooler (side-by-side)
- Spring applied, hydraulically released, parking brakes
- Hydrostatic transmission, two speed travel

UNDERCARRIAGE

- Rigid Frame-Mounted Axles (4)
- Steel Imbed Rubber Track – 380 mm (15 in)
- Dual Flange Front Idler/Single Flange Rear Idler

OTHER

- Engine enclosure, lockable
- Extended life antifreeze, -36° C (-33° F)
- Machine tie down points (10)
- Support, lift arm
- Hydraulic oil level sight gauge
- Radiator coolant level sight gauge
- Radiator, expansion bottle
- Cat ToughGuard™ hose
- Auxiliary, hydraulics, continuous flow
- Heavy duty, flat faced quick disconnects with integrated pressure release
- Split D-Ring to route work tool hoses along side of left lift arm
- Electrical outlet, beacon
- Belly pan cleanout
- Variable speed demand fan

OPTIONAL KITS

- External Counterweights
- High Flow
- Hydraulic Coupler (Canopy)
- A/C (Heater/Defroster) (Canopy)
- Heater
- Driveline Guards
- Speed Sensitive Ride Control
- Wide Mounted Rear Lights
- Front Rooding Lights
- Rear Rooding Lights
- Side Lights
- Debris Kit
- Guarding Kit
- Engine Precleaner
- AC Breather
- Turbo Debris Guard
- Exhaust Insulation Wrap
- Reversing Fan
- Fire Extinguisher Mount
- Water Tank (44gal/166.6L)
- FOPS2
- Single Point Lift
- FOPS2 with Four Point Lift
- Four Point Lifting Eyes
- Side Windows (Canopy)
- Glass or Polycarbonate Door
- Cab Fan Mount
- Heavy-Duty Rear Bumper
- Heavy-Duty Rear Door Guard
- Cell Phone Holder
- Front Camera
- Secondary Display Mount
- Bluetooth® Radio with Microphone (AM/FM/Weather Band Receiver with USB and Auxiliary Input Jack) (Canopy)
- Grading IMU
- License Plate

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For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

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