



Cat[®] 257D

MULTI TERRAIN LOADER

FEATURES:

The Cat[®] 257D Multi Terrain Loader, with its vertical lift design, delivers extended reach and lift height for quick and easy truck loading. Its standard, suspended undercarriage system provides superior traction, flotation and ride quality with very low ground pressure and minimal ground disturbance across a wide range of underfoot conditions. The 257D features the following:

- **Industry leading sealed and pressurized cab option** provides a cleaner and quieter operating environment with excellent work tool visibility.
- **Available high-back, heated, air ride seat with seat mounted adjustable joystick controls** makes the D Series the industry leader in operator comfort.
- **High performance power train** provides maximum performance and production capability through the Electronic Torque Management system, optional two speed travel and an electronic hand/foot throttle with decel pedal capability.
- **High Flow hydraulic system** is available 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 (EU Stage IIIB) emission standards.
- **Cat "Intelligent Leveling" system (ILEV)** provides industry leading technology, integration and optional features such as dual direction self level, work tool return to dig and work tool positioner.
- **Standard fully independent torsion axle suspension** combined with the optional Speed Sensitive Ride Control system improves operation on rough terrain, enabling better load retention, increased productivity and greater operator comfort.
- **Maximize machine capability and control** with optional Advanced Display providing on-screen adjustments for implement response, hystat response and creep control. 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 Work Tools** make the Cat Multi Terrain Loader the most versatile machine on the job site.

Specifications

Engine

Engine Model	Cat C3.3B DIT (turbo)	
Gross Power SAE J1995	55.4 kW	74.3 hp
Net Power SAE 1349	54.6 kW	73.2 hp
Net Power ISO 9249	55.1 kW	73.9 hp
Peak Torque at 1,500 rpm SAE J1995	265 N·m	195 lbf·ft
Displacement	3.3 L	203 in ³
Stroke	120 mm	4.7 in
Bore	94 mm	3.7 in

Weights*

Operating Weight	3651 kg	8,048 lb
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Power Train

Travel Speed (Forward or Reverse)		
One Speed	10.1 km/h	6.3 mph
Two Speed Option	16.0 km/h	9.9 mph

* Operating Weight, Operating Specifications and Dimensions all based on 75 kg (165 lb) operator, all fluids, one speed, OROPS, 1676 mm (66 in) dirt bucket, standard flow hydraulics, mechanical suspension seat, no optional counterweights and manual quick coupler (unless otherwise noted).

Hydraulic System

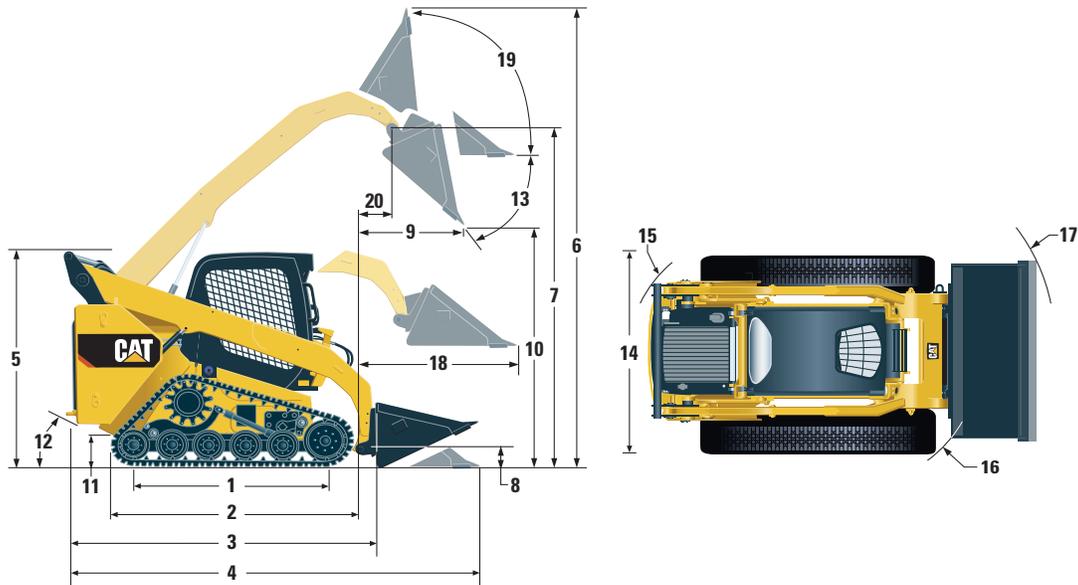
Hydraulic Flow – Standard:			
Loader Hydraulic Pressure	23 000 kPa	3,335 psi	
Loader Hydraulic Flow	76 L/min	20 gal/min	
Hydraulic Power (calculated)	29 kW	39 hp	
Hydraulic Flow – High Flow:			
Maximum Loader Hydraulic Pressure	23 000 kPa	3,335 psi	
Maximum Loader Hydraulic Flow	112 L/min	30 gal/min	
Hydraulic Power (calculated)	43 kW	58 hp	

Operating Specifications*

Rated Operating Capacity:			
35% Tipping Load	889 kg	1,960 lb	
50% Tipping Load	1270 kg	2,800 lb	
Rated Operating Capacity	1361 kg	3,000 lb	
with Optional Counterweight			
Tipping Load	2540 kg	5,600 lb	
Breakout Force, Tilt Cylinder	2284 kg	5,035 lb	
Ground Contact Area	1.14 m ²	1,770 in ²	
Ground Pressure	31.3 kPa	4.5 psi	



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Dimensions*

1	Length of Track on Ground	1499 mm	59.0 in	11	Ground Clearance	242 mm	9.5 in
2	Overall Length of Track	1898 mm	74.7 in	12	Departure Angle		35°
3	Length without Bucket	2767 mm	108.9 in	13	Maximum Dump Angle		52°
4	Length with Bucket on Ground	3486 mm	137.3 in	14	Vehicle Width	1676 mm	66.0 in
5	Height to Top of Cab	2129 mm	83.8 in	15	Turning Radius from Center – Machine Rear	1555 mm	61.2 in
6	Maximum Overall Height	3932 mm	154.8 in	16	Turning Radius from Center – Coupler	1399 mm	55.1 in
7	Bucket Pin Height at Maximum Lift	3091 mm	121.7 in	17	Turning Radius from Center – Bucket	2191 mm	86.3 in
8	Bucket Pin Height at Carry Position	215 mm	8.5 in	18	Maximum Reach with Arms Parallel to Ground	1334 mm	52.5 in
9	Reach at Maximum Lift and Dump	637 mm	25.1 in	19	Rack Back Angle at Maximum Height		87°
10	Clearance at Maximum Lift and Dump	2300 mm	90.5 in	20	Bucket Pin Reach at Maximum Lift	367 mm	14.5 in

Cab

ROPS	ISO 3471:2008
FOPS	ISO 3449:2005 Level I
FOPS Level II	ISO 3449:2005 Level II

Service Refill Capacities

Cooling System	14 L	3.7 gal
Engine Crankcase	11 L	3.0 gal
Fuel Tank	105 L	27.7 gal
Hydraulic System	50 L	13.2 gal
Hydraulic Tank	39 L	10.3 gal

Noise Level

Inside Cab**	83 dB(A)
Outside Cab***	103 dB(A)

- Cab and Rollover Protective Structures (ROPS) are standard in North America and Europe.

**The declared dynamic operator sound pressure levels per ISO 6396:2008. 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.

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.81 kg of refrigerant which has a CO₂ equivalent of 1.158 metric tonnes.

MANDATORY EQUIPMENT

- Hydraulics, Standard or High Flow
- Quick Coupler, Mechanical or Powered
- Seat Belt, 50 mm (2 in) or 75 mm (3 in)
- EU Preparation Package

PERFORMANCE PACKAGES

- Performance Package H1: *Standard Flow Hydraulics (No Self Level)*
- Performance Package H2: *Standard Flow Hydraulics, Dual Direction Electronic Self Level (Raise and Lower), Electronic Snubbing (Raise and Lower)*
- Performance Package H3: *High Flow Hydraulics, Dual Direction Electronic Self Level (Raise and Lower), Electronic Snubbing (Raise and Lower)*

STANDARD EQUIPMENT

ELECTRICAL

- 12 volt Electrical System
- 80 ampere Alternator
- Ignition Key Start/Stop Switch
- Lights: *Gauge Backlighting, Two Rear Tail Lights, Two Adjustable Front and Rear Halogen Lights, Dome Light*
- Backup Alarm
- Heavy Duty Battery, 880 CCA

OPERATOR ENVIRONMENT

- Gauges: *Fuel Level, Hour Meter*
- 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 Filter Restriction, Hydraulic Oil Temperature, Parking Brake Engaged, Engine Emission System*
- Adjustable Vinyl Seat
- 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, Open, Tilt Up
- FOPS, Level I
- Top and Rear Windows
- Floor Mat
- Interior Rearview Mirror
- 12 volt Electric Socket
- Horn
- Hand (Dial) Throttle, Electronic
- Adjustable Joystick Controls
- Anti-theft Security System with 6-button Keypad
- Storage Compartment with Netting

OPTIONAL EQUIPMENT

- Hand-Foot Style Controls
- External Counterweights
- Beacon, Rotating
- Engine Block Heater – 120V
- Oil, Hydraulic, Cold Operation
- Paint, Custom
- Product Link PL641, Cellular
- Speed Sensitive Ride Control

COMFORT PACKAGES

- Open ROPS (C0): *Static Seat (No Foot Throttle, Headliner, Heater or Door)*
- Open ROPS (C1): *Foot Throttle, Headliner, Cup Holder, and choice of Seat (Mechanical Suspension or High Back, Heated, Air Ride Seat) (No Heater or Door)*
- Enclosed ROPS with Heater (C2): *Foot Throttle, Headliner, Heater and Defroster, Side Windows, Cup Holder, Radio Ready, choice of Seat (Mechanical Suspension or High Back, Heated, Air Ride Seat) and Door (Glass or Polycarbonate)*
- Enclosed ROPS with A/C (C3): *C2 + Air Conditioner*

POWER TRAIN

- Cat C3.3B, Turbo Diesel Engine, Meeting U.S. EPA Tier 4 Final (EU Stage IIIB) Emission Standards
- Air Cleaner, Dual Element, Radial Seal
- S-O-SSM Sampling Valve, Hydraulic Oil
- Filters, Cartridge-type, Hydraulic
- Filters, Cartridge-type, Fuel and Water Separator
- Radiator/Hydraulic Oil Cooler (side-by-side)
- Spring Applied, Hydraulically Released Parking Brakes
- Hydrostatic Transmission, One Speed Travel
- Suspension – Independent Torsion Axles (4)
- Rubber Track 381 mm (15 in)

OTHER

- Engine Enclosure, Lockable
- Extended Life Antifreeze, –36° C (–33° F)
- Machine Tie Down Points (6)
- 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
- Product Link™ PL240, Cellular

- Advanced Display: Full Color, 5 in LCD screen, Advanced Multi-operator Security System, On-screen Adjustments for Implement Response, Hystat Response, and Creep Control; Rearview Camera Ready
- Advanced Display: Rearview Camera Included
- Work Tool Return to Dig and Work Tool Positioner
- Bluetooth Radio with Microphone (AM/FM/Weather Band Receiver with USB and Auxiliary Input Jack)
- Two Speed Travel

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