



Cat[®] 297D2

MULTI TERRAIN LOADER

FEATURES:

The Cat[®] 297D2 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, speed and ride quality with very low ground pressure and minimal ground disturbance across a wide range of underfoot conditions. The 297D2 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 Cat Multi Terrain Loaders the industry leader in 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 XPS hydraulic system** is available for applications that demand maximum hydraulic work tool performance.
- **Electronically controlled Cat C3.8 engine** provides high horsepower and torque while meeting U.S. EPA Tier 4 Final/EU Stage IV 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 dual level suspension undercarriage** combined with the optional Speed Sensitive Ride Control system provides better load retention, improved operator comfort and one of the smoothest rides in the industry. The dual suspension undercarriage features oscillating roller wheel assemblies that independently pivot to provide maximum track on the ground.
- **Maximize machine capability and control** with the standard 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 C3.8 DIT (turbo)	
Gross Power SAE J1995	73 kW	98 hp
Net Power SAE 1349	71 kW	95 hp
Net Power ISO 9249	71 kW	95 hp
Peak Torque at 1,500 rpm SAE J1995	334 N·m	246 lbf·ft
Displacement	3.8 L	232 in ³
Stroke	120 mm	4.7 in
Bore	100 mm	3.9 in

Weights*

Operating Weight	4850 kg	10,692 lb
------------------	---------	-----------

Power Train

Travel Speed (Forward or Reverse):		
One Speed	9.6 km/h	5.9 mph
Two Speed	15.1 km/h	9.4 mph

*Operating Weight, Operating Specifications and Dimensions all based on 75 kg (165 lb) operator, all fluids, two speed, enclosed cab with glass door, side windows, heater, mechanical suspension seat, advanced display, 880 CCA battery, 1981 mm (78 in) dirt bucket, standard flow hydraulics, no optional counterweights and manual quick coupler (unless otherwise noted).

Hydraulic System

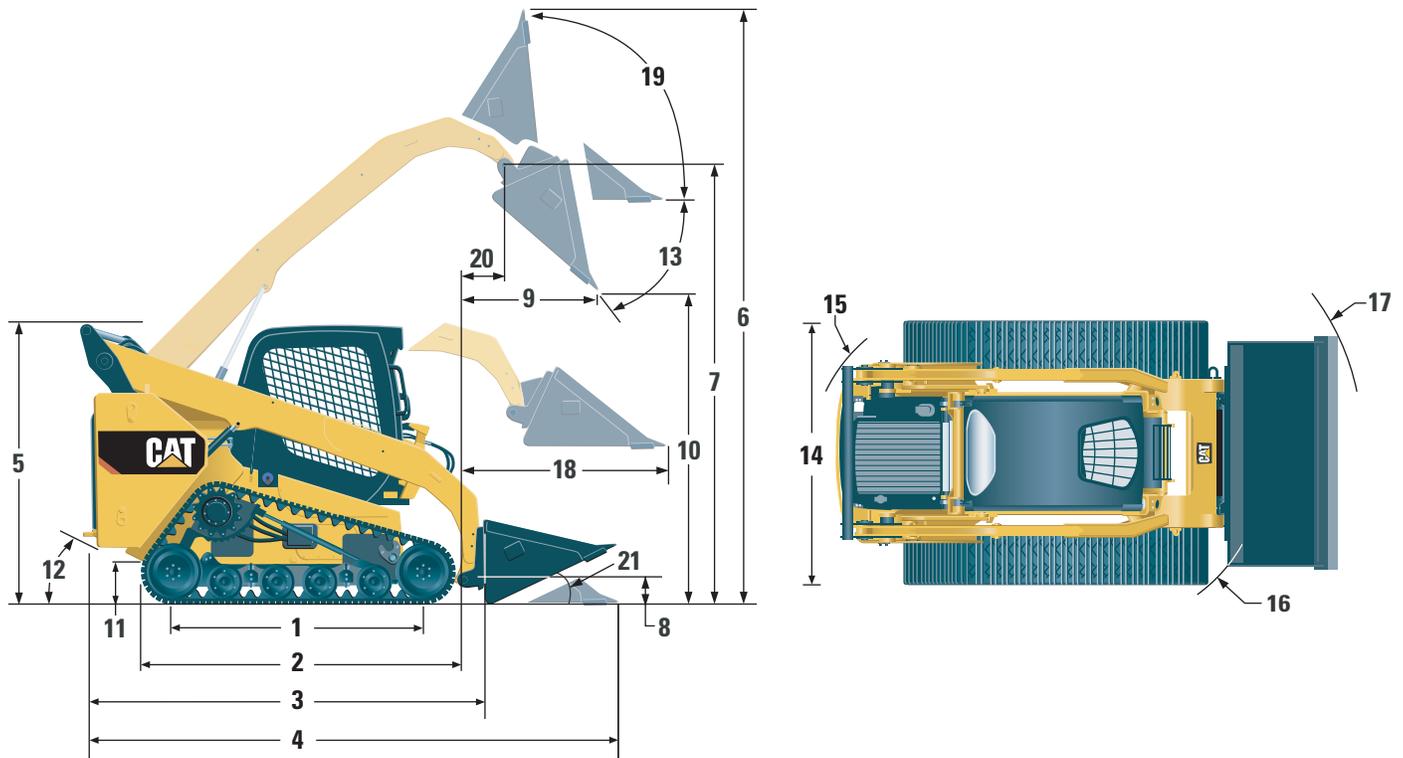
Hydraulic Flow – Standard:			
Loader Hydraulic Pressure	23 000 kPa	3,335 psi	
Loader Hydraulic Flow	86 L/min	23 gal/min	
Hydraulic Power (calculated)	33 kW	44 hp	
Hydraulic Flow – High Flow XPS:			
Maximum Loader Hydraulic Pressure	28 000 kPa	4,061 psi	
Maximum Loader Hydraulic Flow	121 L/min	32 gal/min	
Hydraulic Power (calculated)	57 kW	76 hp	

Operating Specifications*

Rated Operating Capacity:			
35% Tipping Load	1492 kg	3,290 lb	
50% Tipping Load	2132 kg	4,700 lb	
Rated Operating Capacity with Optional Counterweight			
Tipping Load	2250 kg	4,960 lb	
Breakout Force, Tilt Cylinder	4264 kg	9,400 lb	
Breakout Force, Lift Cylinder	3387 kg	7,468 lb	
Breakout Force, Lift Cylinder	2754 kg	6,072 lb	
Ground Contact Area	1.65 m ²	2,561 in ²	
Ground Pressure	28.8 kPa	4.2 psi	



297D2 Multi Terrain Loader



Dimensions*

1	Length of Track on Ground	1807 mm	71.1 in
2	Overall Length of Track	2286 mm	90.0 in
3	Length without Bucket	3201 mm	126.0 in
4	Length with Bucket on Ground	3942 mm	155.2 in
5	Height to Top of Cab	2114 mm	83.2 in
6	Maximum Overall Height	4076 mm	160.5 in
7	Bucket Pin Height at Maximum Lift	3241 mm	127.6 in
8	Bucket Pin Height at Carry Position	200 mm	7.9 in
9	Reach at Maximum Lift and Dump	776 mm	30.5 in
10	Clearance at Maximum Lift and Dump	2445 mm	96.3 in
11	Ground Clearance	223 mm	8.8 in
12	Departure Angle		30°
13	Maximum Dump Angle		52°
14	Vehicle Width	1984 mm	78.1 in
15	Turning Radius from Center – Machine Rear	1864 mm	73.4 in
16	Turning Radius from Center – Coupler	1504 mm	59.2 in
17	Turning Radius from Center – Bucket (racked)	2333 mm	91.8 in
18	Maximum Reach with Arms Parallel to Ground	1260 mm	49.6 in
19	Rack Back Angle at Maximum Height		83°
20	Bucket Pin Reach at Maximum Lift	387 mm	15.2 in
21	Roll Back Angle		27°

Cab

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

Service Refill Capacities

Cooling System	16 L	4.1 gal
Diesel Exhaust Fluid (DEF) Tank	19 L	5 gal
Engine Crankcase	13 L	3.5 gal
Fuel Tank	122 L	32.2 gal
Hydraulic System	55 L	14.5 gal
Hydraulic Tank	39 L	10.3 gal

MANDATORY EQUIPMENT

- Hydraulics, Standard or High Flow XPS
- Quick Coupler, Mechanical or Electric
- Seat Belt, 50 mm (2 in) or 75 mm (3 in)

PERFORMANCE PACKAGE *(must select one of the following)*

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

STANDARD EQUIPMENT

ELECTRICAL

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

OPERATOR ENVIRONMENT

- Gauges: *Fuel Level, DEF 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, Park 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
- Advanced Display: *Full Color, 127 mm (5 in) LCD Screen, Advanced Multi-operator Security System, On-screen Adjustments for Implement Response, Hystat Drive Response, and Creep Control*
- Storage Compartment with Netting

OPTIONAL ATTACHMENTS

- External Counterweights
- Beacon, Rotating
- Engine Block Heater – 120V
- Oil, Hydraulic, Cold Operation
- Paint, Custom
- Heavy Duty Battery, 880 CCA, with Battery Disconnect
- Heavy Duty Battery, 1,000 CCA, with Battery Disconnect

COMFORT PACKAGE *(must select one of the following)*

- 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 C3.8, Turbo Diesel Engine, Meeting Tier 4 Final/Stage IV 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, Wet Multi Disc Parking Brakes
- Hydrostatic Transmission, Two Speed Travel
- Suspension – Independent Torsion Axles (4) and Oscillating Bogie Wheels
- Rubber Track 457 mm (18 in)

OTHER

- Engine Enclosure, Lockable
- Extended Life Antifreeze, –37° C (–34° F)
- Machine Tie Down Points (6)
- Support, Lift Arm
- Hydraulic Oil Level Sight Gauge
- Radiator Coolant Level Sight Gauge
- Radiator, Expansion Bottle
- Cat ToughGuardTM 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 LinkTM, Cellular
- Variable Speed Demand Fan with Reversing Functionality
- Speed Sensitive Ride Control
- 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)

297D2 Multi Terrain Loader

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

© 2015 Caterpillar
All Rights Reserved

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

CAT, CATERPILLAR, SAFETY.CAT.COM, their respective logos, "Caterpillar Yellow" and the "Power Edge" trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

AEHQ7443-01 (06-2015)
Replaces AEHQ7443
(NACD, EU, ANZ)

