

279D3 CTL

Compact Track Loader





Armored 279D3 Compact Track Loader (CTL) with boom and grapple arm.

All-around capabilities for diverse engineering operations.

Digging, reaching, loading or clearing - the Cat® 279D3 Compact Track Loader (CTL) gives operators the power they need to perform and the flexibility to quickly change between a variety of tasks. Equipped with a 72 hp turbocharged engine, the machine keeps operations moving and productivity high. Delivering a 2,935-lb (1331-kg) capacity, the 279D3 lifts and loads materials with ease and efficiency.

Applications

Counter IED and Mine Clearing

Route Clearance

Base Camp Development

General Construction

Modify Environments

Horizontal and Vertical Construction

Attachments

Auger	Dozer Blades	General Purpose (GP) Bucket
Hammers	Pallet Forks	Multi Purpose (MP) Bucket
Backhoe	Vibratory Compactor	Cold Planer
Broom	Wheel Saw	Trenchers
Hydraulic Boom and Grapple Arm		

For missions requiring as much protection as performance.

Performing counter IED operations or clearing rubble to enable mobility, the 279D3 provides operators with 360° protection when inside the cab and technology solutions to increase stand-off distance to threats, allowing operators to effectively utilize equipment while protected and out of harm's way.

Technology Solutions

Cat® Remote Control

- Portable operator console
- Range 1,312.34 ft/400 m LOS
- Frequency 900 MHz or 2.4 GHz
- Remote control indicator lights up and horn sounds during training
- Conceal mode for tactical operations

Crew Protection Kit

360° protection from small arms and fragmentation threats

Integrated roof and floor armor

Transparent armor provides visibility

Cat Vision System

- Vision system control box and 4 cameras (magnet or bolt mounted)
- 2.4 GHz IP radios range 6,561.68 ft/2000 m LOS with video and sound
- Vision system tablet displays 4-camera view: front/rear/left/right
- Optional: 1 additional camera for custom views



Armored cab.



Cab interior with modular CPK.

Military Modifications

- Lift and tie down provisions
- Cab rifle bracket
- Keyless engine start switch
- Armored cab
- Military data plates
- S•O•S sample port
- C-5, C-17 and C-130 air transportable
- Standard receiver tube (2 in / 50.8 mm)
- Remote control with vision system (optional)

Consult Caterpillar Defense for specific details on military modifications.

Support and Serviceability

OEM Diagnostic Capability

With the 279D3, military units benefit from the industry-leading OEM diagnostics capability. These sophisticated electronic control modules monitor all major machine systems and conveniently displays that information to the operator in the cab.

Easy to maintain. Ready for work.

Proper maintenance of your CTL will keep it running at peak performance with minimal downtime. The 279D3 offers easy to access maintenance points and other convenient serviceability features, allowing more work to be done at a lower cost.



Engine compartment.

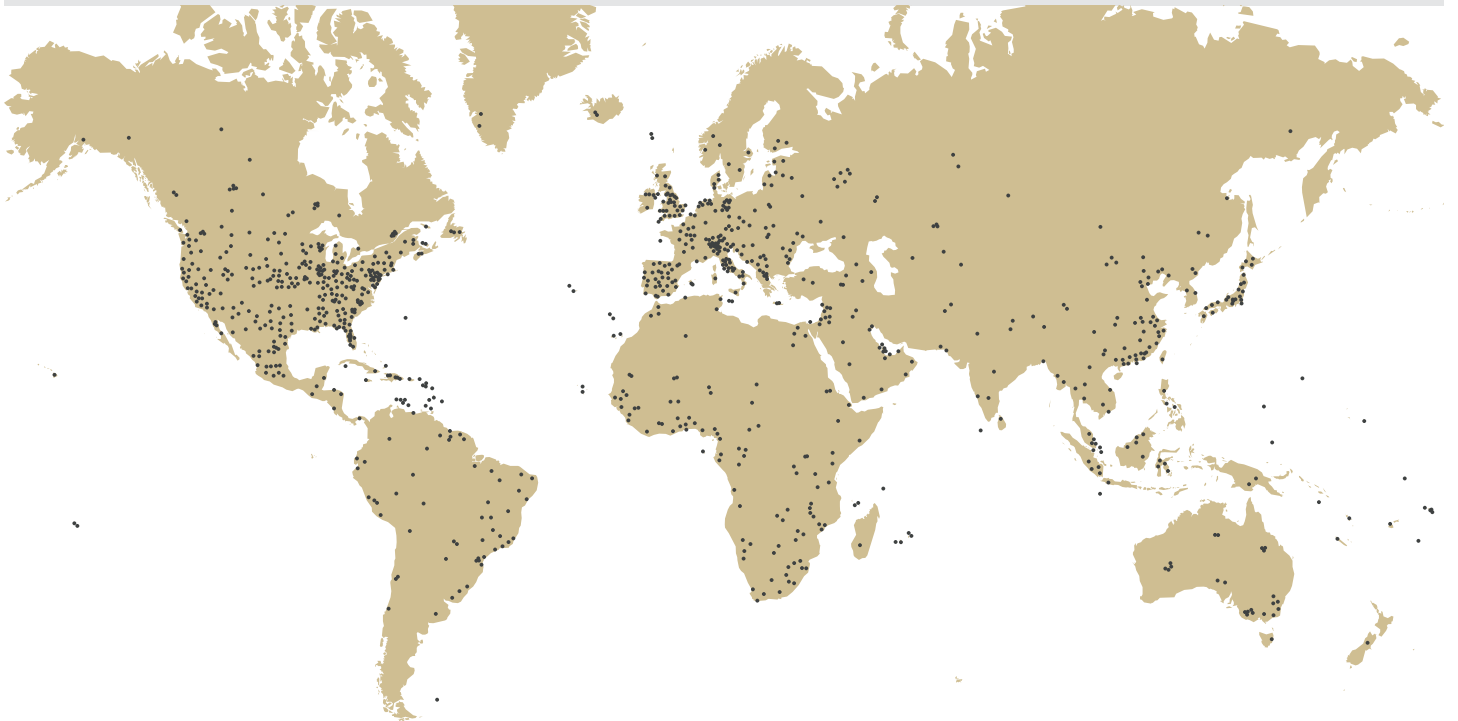
Hydraulic service center	Electric service center
Well-protected, easily visible sight gauges	Ground level maintenance points
Easy access to engine compartment	Ecology drains for simple and clean fluid drainage
Brake wear indicators for easy inspection	Maintenance-free batteries
Airborne debris-resistant, swing-out grill provides more efficient airflow	Compartment test ports

Worldwide Service Capabilities

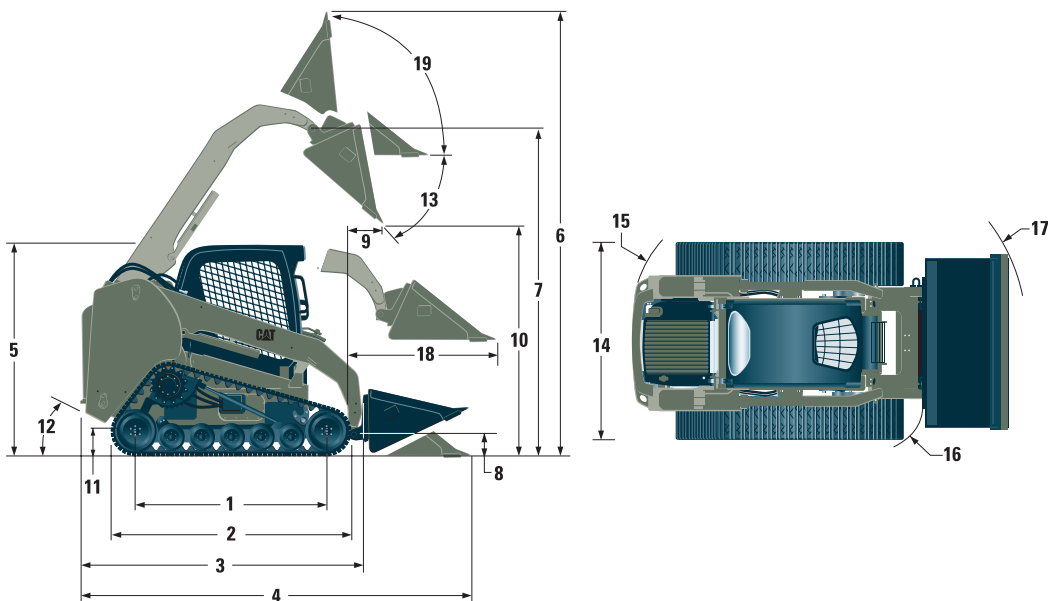
Cat dealer field service technicians have the experience and tools necessary to service your machine on-site. Field service trucks are fully loaded with state-of-the-art tools and diagnostic equipment, as well as specifications and schematics for every Cat machine. Technical experts at the dealership and the Caterpillar team are available to provide assistance to field service technicians. When on-site repair isn't enough, Cat dealerships are fully-equipped to service your 279D3 quickly.

Dealer Support

The Caterpillar global network of dealers is the best in the world at providing support to keep your CTL up and running. With 99.7% of parts shipped within 24 hours, Cat dealers are partners in support.



Dimensions



1) Length of Track on Ground (in/mm)	64.2 / 1630
2) Overall Length of Track (in/mm)	83.8 / 2129
3) Length without Bucket (in/mm)	117.9 / 2995
4) Length with Bucket on Ground (in/mm)	146.2 / 3714
5) Height to Top of Cab (in/mm)	83.2 / 2113
6) Maximum Overall Height (in/mm)	159.5 / 4051
7) Bucket Pin Height at Maximum Lift (in/mm)	124.9 / 3173
8) Bucket Pin Height at Carry Position	7.8 / 198
9) Reach at Maximum Lift and Dump	22.6 / 575
10) Clearance at Maximum Lift and Dump	97.8 / 2485
11) Ground Clearance	8.9 / 226
12) Departure Angle (°)	32°
13) Maximum Dump Angle (°)	39°
14) Vehicle Width - 17.7 in/450 mm tracks (in/mm)	78 / 1981
15) Turning Radius from Center - Machine Rear (in/mm)	70.7 / 1796
16) Turning Radius from Center - Coupler (in/mm)	55.5 / 1410
17) Turning Radius from Center - Bucket (in/mm)	88.8 / 2256
18) Maximum Reach with Arms Parallel to Ground (in/mm)	54 / 1373
19) Rack Back Angle at Maximum Height (°)	84°

Standard Equipment

- Hydraulic, standard or high flow XPS
- Quick coupler, hydraulic

Power Train

- Cat C3.3B, turbo diesel engine
- Air cleaner, dual element, radial seal
- S•O•S sampling valve, hydraulic oil
- Filters, cartridge-type, hydraulic
- Filters, canister-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)

Operator Environment

- Seat belt, 2 in/50 mm
- Suspension seat
- Enclosed ROPS with A/C (C3): C2 + air conditioner
- 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
 - Park brake engages
- Vinyl seat
- Fold in ergonomic contoured armrest
- Control interlock system, when operator leaves seat or armrest is raised:
 - Hydraulic system disables
 - Hydrostatic transmission disables
 - Parking brake engages
- ROPS, cab, open, tilt up
- FOPS, level I
- Top and rear windows
- Headliner, deluxe
- Floor mat
- Interior rear view mirror
- USB electric socket
- Horn

Electrical

- 12 volt electrical system
- 80 ampere alternator
- Ignition key start/stop switch
- Lights:
 - Gauge backlighting
 - Two rear tail lights
 - Two rear LED working lights
 - Two adjustable front LED lights
 - Dome light
- Backup alarm
- Heavy duty battery, 1000 CCA, disc switch

Other Standard Equipment

- Engine enclosure, lockable
- Extended life antifreeze: -34° F/-37° C
- Machine tie down points (commercial)
- 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 Attachments

- Brushcutter
- Landscape rake
- Landscape tiller
- Material handling arm
- Mulcher
- Power box rake
- Snowblower
- Stump grinder
- Shears

Standard equipment may vary.

Consult Caterpillar Defense for details.

All dimensions are approximate and may vary with configuration.

Specific military service configurations are available upon request.

Operating Specifications

Engine

MODEL	Cat® C3.3B Turbocharged Diesel
Gross Power SAE J1995 (hp/kW)	74.3 / 55.4
Net Power SAE 1349 (hp/kW)	71.8 / 53.6
	72.4 / 54.1 †
Net Power ISO 9249 (hp/kW)	72.6 / 54.41
	73.2 / 54.6 †
Peak Torque @ 1,600 rpm SAE J1995 (lb-ft/Nm)	195 / 265
Displacement (in³/L)	203 / 3.3
Stroke (in/mm)	4.7 / 120
Bore (in/mm)	3.7 / 94

† Engine meeting Brazil MAR-1 and China Nonroad Stage III emission standards emits equivalent to U.S. EPA Tier 4 Interim and is offered only for Australia/New Zealand, Brazil, China, French Polynesia, Hong Kong, Macedonia and New Caledonia.

Weights*

Operating Weight	
Without Armor (lb/kg)	9,893 / 4487
With Armor (lb/kg)	10,988 / 4984
Rated Capacity (lb/kg)	2,935 / 1331

* Operating Weight, Operating Specifications and Dimensions all based on 165 lb/75 kg operator, all fluids, two speed, OROPS, 80 in/2036 mm low profile bucket, 15.7 in/400 mm tracks, dual flange front idler/single flange rear idler, standard flow hydraulics, mechanical suspension seat, no optional counterweights and manual quick coupler (unless otherwise noted).

Power Train

Travel Speed (Forward or Reverse)	
One Speed (mph/km/h)	4.5 / 7.2
Two Speed (mph/km/h)	8.3 / 13.3

Hydraulic System

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

Operating Capacities

Rated Capacity	
35% Tipping Load (lb/kg)	2,220 / 1007
50% Tipping Load (lb/kg)	3,170 / 1438
With Optional Counterweight (lb/kg)	3,390 / 1538
Tipping Load (lb/kg)	6,345 / 2878
Breakout Force, Tilt Cylinder (lb/kg)	7,285 / 3304
Ground Contact Area, 17.7 / 450 mm in Track (in²/m²)	2,272 / 1.47
Ground Pressure, 17.7 / 450 mm in Track (psi/kPa)	4.4 / 30.4

Service Refill Capacities

Cooling System (gal/L)	3.7 / 14
Engine Crankcase (gal/L)	3 / 11
Fuel Tank (gal/L)	27.7 / 105
Hydraulic System (gal/L)	13.7 / 52
Hydraulic Tank (gal/L)	10.3 / 39

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Materials and specifications are subject to change without notice. Featured machines may include additional equipment. See your account manager for available options.

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