



# Cat<sup>®</sup> 299D3 XE

## COMPACT TRACK LOADER

### FEATURES:

The Cat<sup>®</sup> 299D3 XE Compact Track Loader, with its powerful engine, high output hydraulic system, high lift forces, vertical lift design and torsion axle suspension, provides the maximum performance for work tool productivity, digging, truck loading and material handling in a wide range of underfoot conditions and applications. The 299D3 XE 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 Compact Track 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.
- **XE hydraulic system** provides high flow and high pressure that delivers industry leading hydraulic horsepower to efficiently run even the most power hungry work tools.
- **Electronically controlled Cat C3.8 aftercooled engine** provides high horsepower and torque while meeting U.S. EPA Tier 4 Final and EU Stage V emission standards.
- **Cat "Intelligent Leveling" system** provides industry leading technology, integration, and available 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 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 the standard Advanced Display providing on-screen adjustments for implement response, hystat response, and creep control, 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 Compact Track Loader the most versatile machine on the job site.

## Specifications

### Engine

|                                    |                      |                     |
|------------------------------------|----------------------|---------------------|
| Engine Model                       | Cat C3.8 DIT (turbo) |                     |
| Gross Power SAE J1995              | 82 kW                | 110 hp              |
| Net Power SAE 1349                 | 79 kW                | 106 hp              |
| Net Power ISO 9249                 | 80 kW                | 107 hp              |
| Peak Torque at 1,500 rpm SAE J1995 | 374 N·m              | 276 lbf·ft          |
| Displacement                       | 3.8 L                | 232 in <sup>3</sup> |
| Stroke                             | 120 mm               | 4.7 in              |
| Bore                               | 100 mm               | 3.9 in              |

### Weights\*

|                  |         |           |
|------------------|---------|-----------|
| Operating Weight | 5333 kg | 11,756 lb |
|------------------|---------|-----------|

\*Operating Weight, Operating Specifications and Dimensions all based on 75 kg (165 lb) operator, all fluids, two speed, ride control, enclosed cab with glass door, side windows, air conditioning, air ride seat, advanced display, rearview camera, 1,000 CCA battery, dual direction self level, 2036 mm (80 in) low profile bucket, 400 mm (15.7 in) tracks, triple flange front/rear idlers, no optional counterweights and manual quick coupler (unless otherwise noted).

### Power Train

|                                    |           |         |  |
|------------------------------------|-----------|---------|--|
| Travel Speed (Forward or Reverse): |           |         |  |
| One Speed                          | 8.4 km/h  | 5.2 mph |  |
| Two Speed                          | 13.5 km/h | 8.4 mph |  |

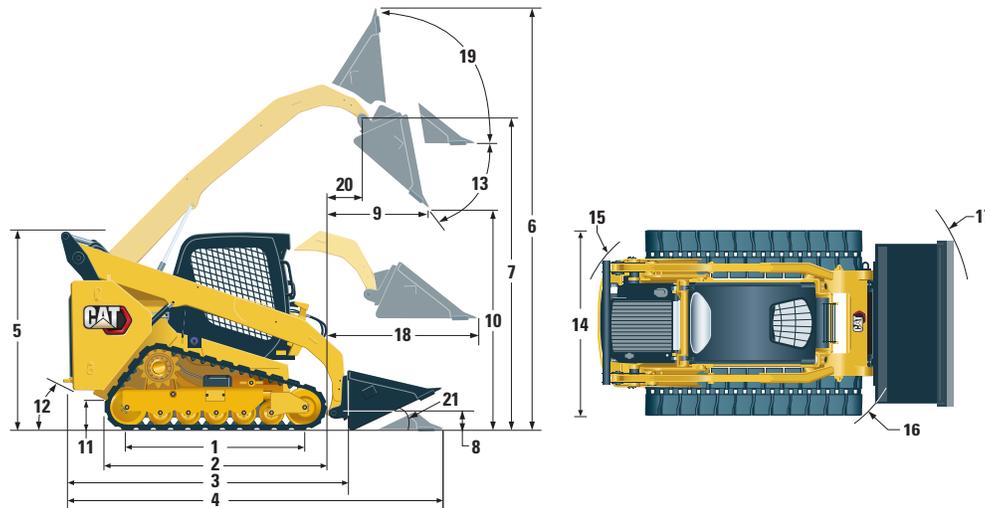
### Hydraulic System

|                                   |            |            |  |
|-----------------------------------|------------|------------|--|
| Hydraulic Flow – XE:              |            |            |  |
| Maximum Loader Hydraulic Pressure | 28 000 kPa | 4,061 psi  |  |
| Maximum Loader Hydraulic Flow†    | 150 L/min  | 40 gal/min |  |
| Hydraulic Power (calculated)      | 70 kW      | 94 hp      |  |
| Standard Flow Mode:               |            |            |  |
| 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      |  |

†When equipped with Cat 400 Series work tools.



# 299D3 XE Compact Track Loader



## Dimensions\*

|                                       |         |          |   |                 |
|---------------------------------------|---------|----------|---|-----------------|
| 1 Length of Track on Ground           | 1767 mm | 69.6 in  | 12 Departure Angle                              | 33°             |
| 2 Overall Length of Track             | 2270 mm | 89.4 in  | 13 Maximum Dump Angle                           | 54°             |
| 3 Length without Bucket               | 3189 mm | 125.5 in | 14 Vehicle Width (400 mm/15.7 in tracks)        | 1931 mm 76.0 in |
| 4 Length with Bucket on Ground        | 3931 mm | 154.7 in | 15 Turning Radius from Center – Machine Rear    | 1881 mm 74.0 in |
| 5 Height to Top of Cab                | 2125 mm | 83.6 in  | 16 Turning Radius from Center – Coupler         | 1476 mm 58.1 in |
| 6 Maximum Overall Height              | 4032 mm | 158.7 in | 17 Turning Radius from Center – Bucket (racked) | 2314 mm 91.1 in |
| 7 Bucket Pin Height at Maximum Lift   | 3208 mm | 126.3 in | 18 Maximum Reach with Arms Parallel to Ground   | 1319 mm 51.9 in |
| 8 Bucket Pin Height at Carry Position | 180 mm  | 7.1 in   | 19 Rack Back Angle at Maximum Height            | 81°             |
| 9 Reach at Maximum Lift and Dump      | 852 mm  | 33.6 in  | 20 Bucket Pin Reach at Maximum Lift             | 493 mm 19.4 in  |
| 10 Clearance at Maximum Lift and Dump | 2399 mm | 94.5 in  | 21 Roll Back Angle                              | 25°             |
| 11 Ground Clearance                   | 245 mm  | 9.6 in   |   |                 |

## Operating Specifications\*

|  |                     |                       |
|--|---------------------|-----------------------|
| Rated Operating Capacity:                            |                     |                       |
| 35% Tipping Load                                     | 1620 kg             | 3,560 lb              |
| 50% Tipping Load                                     | 2315 kg             | 5,085 lb              |
| Rated Operating Capacity with Optional Counterweight |                     |                       |
| Tipping Load   | 2431 kg             | 5,360 lb              |
| Breakout Force, Tilt Cylinder                        | 4625 kg             | 10,170 lb             |
| Breakout Force, Lift Cylinder                        | 3298 kg             | 7,270 lb              |
| Breakout Force, Lift Cylinder                        | 2795 kg             | 6,162 lb              |
| Ground Contact Area                                  | 1.41 m <sup>2</sup> | 2,184 in <sup>2</sup> |
| Ground Contact Area (450 mm/17.7 in track)           | 1.59 m <sup>2</sup> | 2,463 in <sup>2</sup> |
| Ground Pressure                                      | 37.3 kPa            | 5.4 psi               |
| Ground Pressure Area (450 mm/17.7 in track)          | 33.0 kPa            | 4.8 psi               |

## 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                       | 120 L | 31.7 gal |
| Hydraulic System                | 55 L  | 14.5 gal |
| Hydraulic Tank                  | 39 L  | 10.3 gal |

## Cab

|      |                       |
|------|-----------------------|
| ROPS | ISO 3471:2008         |
| FOPS | ISO 3449:2005 Level I |

## Noise Level

|                |           |
|----------------|-----------|
| Inside Cab**   | 83 dB(A)  |
| Outside Cab*** | 104 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 (if equipped)

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 CO<sub>2</sub> equivalent of 1.158 metric tonnes.

## MANDATORY EQUIPMENT

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- Quick Coupler, Mechanical or Powered
- High Visibility Seat Belt, 50 mm (2 in) or 75 mm (3 in)

## PERFORMANCE PACKAGE

- Performance Package H3: *XE Hydraulics, Dual Direction Electronic Self Level (Raise and Lower), Work Tool Return to Dig, Work Tool Positioner, and Electronic Snubbing (Raise and Lower)*

## STANDARD EQUIPMENT

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### 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, 1,000 CCA, with Battery Disconnect

### 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, Air Inlet Heater Activation, Hydraulic Filter Restriction, Hydraulic Oil Temperature, Park Brake Engaged, Engine Emission System*
- High Back Cloth Seat with Air Suspension, Heated with Recline and Lumbar Support and Fully Adjustable Seat Mounted Controls
- 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, Enclosed, Tilt Up
- FOPS, Level I
- Top, Rear and Side Windows
- Headliner, Deluxe
- Floor Mat
- Interior Rearview Mirror
- 12 volt Electric Socket
- Horn
- Hand (Dial) and Foot Throttle, Electronic with Decel Feature
- Advanced Display with Rearview Camera: *Full Color, 127 mm (5 in) LCD screen; Advanced Multi-operator Security System; On-screen Adjustments for Implement Response, Hystat Response and Creep Control*
- Storage Compartment with Netting

## OPTIONAL ATTACHMENTS

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- Beacon, Rotating
- Engine Block Heater – 120V
- Oil, Hydraulic, Cold Operation
- Paint, Custom
- Variable Speed Demand Fan with Reversing Functionality

## COMFORT PACKAGE

- Enclosed ROPS with A/C (C3): *Foot Throttle, Headliner, Heater and Defroster, Side Windows, Cup Holder, Radio Ready, Air Ride Seat (High Back and Heated) and Door (Glass or Polycarbonate)*

### POWER TRAIN

- Cat C3.8, Turbo Diesel Engine, Meeting Tier 4 Final and Stage V Emission Standards
- Air Cleaner, Dual Element, Radial Seal
- S-O-S<sup>SM</sup> 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)
- Speed Sensitive Ride Control

### 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 ToughGuard<sup>TM</sup> 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
- Steel Imbed Rubber Track – 400 mm (15.7 in) with Triple Flange Idlers (front and rear)
- Product Link<sup>TM</sup> PL240, Cellular

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