# D7E

## Track-Type Tractor

CATERPILLAR®


| Engine | | |
|---|---|---|
| Engine Model | Cat® C9.3 ACERT™ | |
| Net Power – SAE J1349 | 175 kW | 235 hp |
| **Drive Train** | | |
| Type | Electric Drive | |

| Weights | | |
|---|---|---|
| Operating Weight – STD SU | 25 700 kg | 56,669 lb |
| Operating Weight – LGP S | 28 170 kg | 62,115 lb |
| Shipping Weight – STD | 21 600 kg | 47,619 lb |
| Shipping Weight – LGP | 23 980 kg | 52,866 lb |

## D7E Features

**Electric Drive Power Train**
*The revolutionary electric drive system delivers excellent dozing efficiency and performance while consuming considerably less fuel and fewer parts to reduce lifetime owning and operating costs.*

**Operator Station**
*Center post cab design offers more space, improved all-around visibility and reduced noise levels.*

**ACERT™ Engine Technology**
*Cat C9.3 engine with ACERT™ Technology powers an electric generator that efficiently converts mechanical energy into AC electrical current. Meets U.S. EPA Tier III, EU Stage IIIa and Japan MLIT Step 3 emissions regulations.*

**Grade Control Ready**
*Factory installed wiring and mounting points make it simple to add a Cat AccuGrade™ system for improved accuracy and increased productivity.*

**Serviceability**
*New tilt cab provides easy access to drive system components, hydraulic pumps and lines. Grouped service points and large access doors facilitate easy daily maintenance.*

**Sustainability**
*Designed to do more work while consuming fewer resources – good for business and good for the planet.*

## Contents




**The Cat® D7E was designed to meet growing demand for powerful yet highly maneuverable track-type tractors. By adapting electric drive technology to the unique requirements of dozer applications, Caterpillar has developed an all-new class of tractor that delivers the best possible balance of heavy-dozing and fine-grading performance.**

**The innovative diesel-electric hybrid technology of the D7E is also designed to burn considerably less fuel and consume fewer fluids and parts for reduced owning and operating costs. Improved productivity and efficiency means getting more work done while using fewer resources.**

# Power Train

## First-of-its-kind Electric Drive delivers power and efficiency.

The electric generator, power inverter and propulsion module in the electric drive system replace traditional mechanical components such as a torque converter and transmission.

The Cat® C9.3 engine with ACERT™ Technology turns a powerful electric generator that efficiently converts mechanical energy into AC electrical current. Electrical current from the generator flows through specially armored cables and military grade connectors to a solid-state power inverter. Advanced electronics send AC current to the propulsion module to control the motors and provides DC current for the accessory systems.

The propulsion module delivers well-modulated torque via axles to the final drives. Consisting of state-of-the-art AC electric motors—and connected to the D7E updated differential steering system—the propulsion module has no moving electrical contacts and few moving mechanical parts.

All electrical components are fully sealed to safely operate in a wide range of dozing conditions. Liquid cooling ensures that the electric drive components deliver peak performance in extreme temperature conditions.

The D7E electric drive system is highly efficient at delivering engine power to the ground. Infinitely variable speed control, means there are no gears to shift. Operators can concentrate on the task and the job site, rather than on shifting gears and managing engine speed. Training is simplified as well.

A proven differential steering system combines with electric drive to make the D7E the only system that can perform locked-track pivot turns for better maneuverability. A dedicated D8-size steering pump delivers improved performance.

### Benefits

- Fuel efficiency: 10 – 30 percent less fuel burned per hour.
- Reduced owning and operating costs: Fewer moving parts, longer drive train component life, reduced lifetime service and maintenance.
- Resourceful: Designed to use less fuel and fluids, and fewer replacement parts.
- Increased efficiency: Lower fuel usage per cubic yard of material moved.
- Increased productivity: More material moved per hour.
- Versatility: Power, smooth operation and maneuverability for a wide variety of applications.

# Engine

## ACERT™ Technology.


The D7E electric drive train is powered by a 235 hp Cat C9.3 engine with ACERT™ Technology. The engine utilizes a proven common rail fuel system for improved efficiency and fuel economy. Featuring the latest in Cat emissions reduction technologies, this engine meets U.S. EPA Tier III, EU Stage IIIa and Japan MLIT Step 3 emissions regulations.

The efficient drive train allows the engine to operate in a tighter rpm range, 1500 – 1800 rpm, which helps extend engine life and improve fuel economy. The increased drivetrain efficiency also allows the machine to achieve greater performance at lower horsepower than previous models, adding even more to the D7E overall benefits.

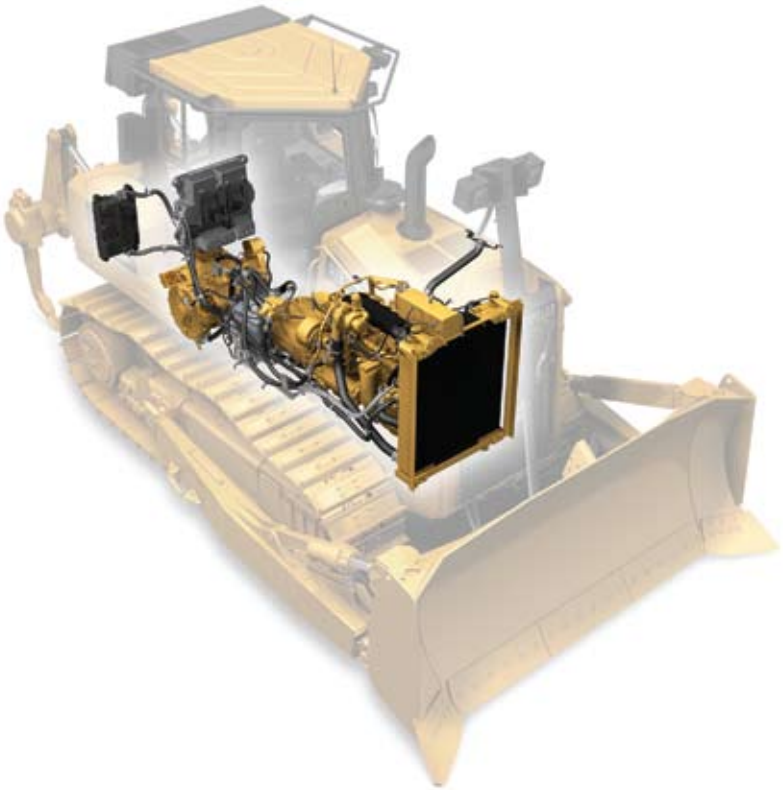
### Features

- Beltless design: Accessory systems are electrically powered, so engine belts and alternators are not needed.
- Serviceability: Electric priming pump and easier engine access make service easier.
- Leak Protection: Components are sealed, preventing leaks and protecting fluids from contamination.

# Cooling System

## Efficient and easy to service.

The D7E cooling system uses a three-part radiator built with rugged, highly efficient aluminum bar cores for charged air, jacket water, and the separate circuit. Although the jacket water and separate circuit coolant operate at different temperatures, the radiator appears and acts as one integrated unit. Airflow is managed by a hydraulic variable speed demand fan, reducing power requirements and fuel consumption. A molded shroud ensures efficient air flow through the radiator and the fan utilizes lightweight, durable fiberglass blades for high efficiency and quiet operation. A larger gap between fins reduces plugging, and the single-plane design allows for easier cleaning and service.




# Operator Station

## Unprecedented all-around visibility and comfort.

The all new D7E cab is designed to maximize operator efficiency. From the operator's seat, the single center post aligns perfectly with the air intake, exhaust and lift cylinder, greatly enhancing forward visibility. The angled door provides more side glass area, improving sightlines to the blade and all around the job site. That helps operators work more confidently and productively all shift long and enhances job site safety.

- The cab offers more interior space, as well as wider, swing out doors for easier cab access.
- Ergonomic controls are fully adjustable and designed for low-effort comfort. Switches and controls for various systems are located within easy reach of the operator.
- Interior noise levels are reduced to a quiet 73 dB(A).
- A single-unit heating, ventilation and air conditioning (HVAC) system is self contained and powered by electrical current from the accessory power converter. It has no belts, needs no long refrigerant lines, and maintains maximum cooling efficiency even when the machine goes to idle.
- An integrated display screen provides a range of machine status information, plus safety, service and maintenance-related alerts. Built-in connections and mounts make for easy installation of a grade control system display.
- A speed recall feature allows operators to pre-set the desired forward and reverse travel speed, and then resume that speed simply by pressing a button.

# Undercarriage

Durable versatility.


The D7E features an advanced low drive undercarriage design for greater machine versatility in a wider range of applications. Improved visibility, especially to the sides, is only one of the several benefits of this highly efficient undercarriage system.

D10-size sprocket bearings give the D7E the added durability for a wide range of applications. Shock loads are directed through the roller frame to reduce wear and tear on the machine – and on the operator. The low drive undercarriage configuration also allows the cab to be tilted for convenient service access to the drive train system.

### Heavy Duty Undercarriage

The heavy duty undercarriage system is well suited to aggressive, high impact applications such as logging, side-slopes, or working in rocky or uneven terrain. The components are designed for extended wear life in abrasive conditions and high impact applications.

The heavy duty track features improved track shoe design – increased grouser height, enhanced penetration, increased leading and trailing edge of shoe and increased track overlap.

### Optional SystemOne™ Undercarriage

The optional SystemOne™ undercarriage has been proven to reduce total undercarriage owning and operating costs by 35 – 70 percent. SystemOne features lifetime sealed and lubricated cartridges to eliminate bushing turns, and sprockets require no replacement during the life of the chain. A rotating bushing design allows the center tread idlers and sprocket segments to last through at least two sets of track. An open and smooth roller frame design reduces mud buildup and enables easy clean-out. In addition, all SystemOne undercarriage components are designed to work and wear as a system. They deliver long, balanced wear life and require very little service between undercarriage overhauls.

### Undercarriage Configurations

STD – designed for versatility, this undercarriage configuration works in a variety of soil conditions. It provides the proper ground contact and pressure to maximize your productivity.

LGP – designed to work in soft and spongy conditions. Wide track shoes, long track frames, and a wider gauge increases track contact area and reduces ground pressure for improved stability providing excellent flotation in swampy conditions.



# Technology Solutions

Systems to achieve even greater productivity.

### AccuGrade™ System for Track-Type Tractors

Caterpillar is helping customers revolutionize the way they move material with new technology solutions for earthmoving machines – solutions that provide greater accuracy, higher productivity, lower operating costs and more profitability. The AccuGrade System is designed and integrated into the machine and hydraulic systems to create an automated blade control. Blade-mounted sensors calculate precise blade slope and elevation information. The integrated electro-hydraulic valve control module uses the information from the sensors to automatically adjust the blade to maintain grade. Automated blade control allows operators to improve efficiency and productivity by achieving grade faster and in fewer passes than ever before, reducing the need for traditional survey stakes or grade checkers.

### Grade Control Ready

The D7E ships from the factory with grade control system wiring and mounting points already installed. This makes adding AccuGrade quick and easy, and optimizes performance and reliability. Productivity is further enhanced by the D7E distributed electro-hydraulic system. Hydraulic valves are placed next to the components they control for quicker response and faster cycle times.

### Cat Product Link

Cat® Product Link enables convenient remote monitoring of equipment. Get useable information to keep jobs on schedule, maintain machine health and reduce fleet owning and operating costs.

- Simplify fleet management and monitor machine use.
- Link all machines, regardless of brand.
- Three levels of insight to meet specific business requirements.

# Work Tools

Designed for performance and versatility.



### Dozer Blades

The D7E features a robust, single lift cylinder design. The single cylinder delivers the same power as a dual-cylinder system, but with fewer than half the components. Blade stability is excellent, supported by L-shaped push arms.

Dozer blade capacity is the same as previous models, although the D7E blade enhances durability with thicker plating.

### Blade Options

- Universal Blade
- Semi-Universal Blade
- Straight Blade
- Angle Blade

### Rear Attachments

Distributed hydraulics and commonality among D7E rear Work Tools help maximize productivity and efficiency. A well-balanced machine design means counterweights are not needed when a rear work tool is not attached.

- **Ripper**

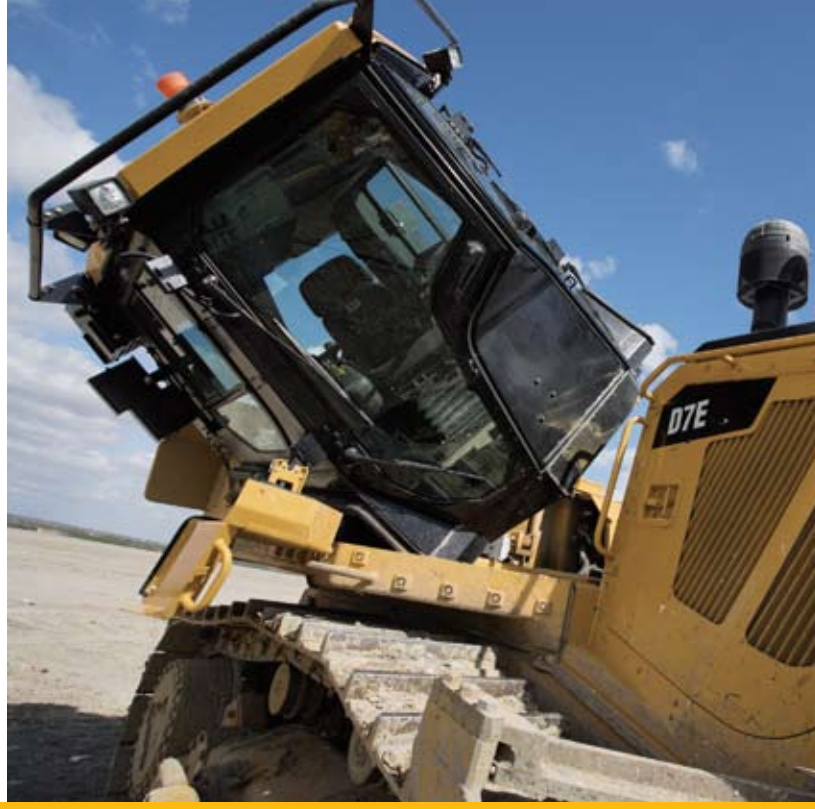
The ripper on the D7E is placed closer to the machine for improved balance. The Ripper Auto Stow function allows the operator to automatically raise and position the ripper for the next pass. Cast-in ripper mounts mean the machine comes ready-to-pin from the factory, so a ripper can be mounted quickly and easily. Choose a single- or multi-shank ripper. The lift and tilt cylinders of the D7E dual-function, multi-shank ripper feature a similar bore and rod sizing, piston, cap assembly, cylinder frame and ripper carriage as previous offerings.

- **Winch**

The hydraulically driven winch for the D7E features positive load control with variable speed, a dual braking system, a single lever control and a standard three roller fairlead.

- **Drawbar**

The drawbar for the D7E is suited for a variety of applications, including disks, compactors, chopper wheels, pull-type scrapers and retrieving other equipment.




# Serviceability

## Increase uptime by reducing service time.

The D7E redefines serviceability. With easy access to service points and increased servicing intervals, the D7E can significantly reduce total owning and operating costs.

- Service points are grouped on the left side of the machine for quick and easy routine maintenance.
- A tilt cab allows easy access to modular major components, such as generator, propulsion module, power electronics and hydraulics.
- A battery disconnect switch initiates safe shutdown of the electric drive system for maintenance.
- Longer service intervals on fluids and filters.
- Modular final drives can be easily accessed and serviced.
- The heating, ventilation and air conditioning (HVAC) system is self contained for improved performance, increased service intervals and ease of serviceability.
- Electric drive reduces maintenance requirements by eliminating belts, engine-mounted compressors, alternator, clutches and transmission control valves.
- Ground-level sight gauges provide quick and easy inspection of fluid levels.
- Maintenance-free, heavy duty batteries with disconnect switch.
- Remote electric priming pump and under-hood servicing light.
- Optional high-speed oil change system.
- Optional remote jumpstart receptacle.
- Cat monitoring system.

# Customer Support

## Count on Cat dealers for business solutions.

### Selection

Cat dealers can help customers compare and choose the right machine for their business.

### Financing

Cat dealers offer financing options to meet a variety of needs.

### Operation

Improve operating technique for better productivity and profit with the latest Cat dealer training resources.

### Product Support

Cat dealers are with customers every step of the way with unsurpassed worldwide parts support, trained technicians and customer support agreements.

# Sustainability

## Resourceful in every way.

The D7E is designed to maximize efficiency and productivity while conserving natural resources.

- Burns 10 – 30 percent less fuel per hour than previous models. Less fuel burned means reduced emissions.
- The D7E earned a 2009 Clean Air Excellence Award from the U.S. Environmental Protection Agency.
- More efficient – 25 percent more material moved per liter/gallon of fuel.
- Fewer parts and longer component life, less fuel and fluids, means less to replace and less to dispose of.
- Major structures and components are built to be rebuilt, reducing waste and replacement costs.

## Engine

| | | |
|---|---|---|
| Engine Model | Cat® C9.3 ACERT™ | |
| Gross Power | 188 kW | 252 hp |
| Net Power – Caterpillar | 175 kW | 235 hp |
| Net Power – ISO 9249 | 175 kW | 235 hp |
| Net Power – SAE J1349 | 175 kW | 235 hp |
| Net Power – EU 80/1269 | 175 kW | 235 hp |
| Bore | 115 mm | 4.5 in |
| Stroke | 149 mm | 5.9 in |
| Displacement | 9.3 L | 567 $in^3$ |

- Ratings at 1700 rpm.
- Net power advertised is the power available at the flywheel when engine is equipped with fan, air cleaner, and muffler.
- No derating required up to 2286 m (7,500 ft) altitude, beyond 2286 m (7,500 ft) automatic derating occurs.

## Service Refill Capacities

| | | |
|---|---|---|
| Fuel Tank | 409 L | 108 gal |
| Fuel Tank, High Capacity | 476 L | 126 gal |
| Cooling System | 87 L | 22.5 gal |
| Engine Crankcase | 30 L | 8 gal |
| Power Train | 60 L | 16 gal |
| Final Drives (each) | 34 L | 9 gal |
| Final Drive (LGP each) | 42 L | 11 gal |
| Pivot Shaft Compartment | 7 L | 1.8 gal |
| Hydraulic Tank | 76 L | 20 gal |

## Weights

| | | |
|---|---|---|
| Shipping Weight | 21 600 kg | 47,619 lb |
| Operating Weight – STD SU | 25 700 kg | 56,669 lb |
| Operating Weight – LGP S | 28 170 kg | 62,115 lb |
| Shipping Weight – LGP | 23 980 kg | 52,866 lb |

- Shipping Weight includes lubricants, coolant, ROPS/FOPS cab, standard track and 10% fuel.
- Operating Weight includes blade, lubricants, coolant, full fuel tank, standard track, ROPS/FOPS cab, drawbar and operator.

## Hydraulic Controls – Pump

| | | |
|---|---|---|
| Pump Output – Steering | 312 L/min | 82.4 gal/min |
| Pump Output – Implement | 200 L/min | 52.8 gal/min |
| Lift Cylinder Flow | 190 L/min | 42 gal/min |
| Ripper Cylinder Flow | 190 L/min | 42 gal/min |
| Pump Type | Piston, Variable Displacement | |
| Tilt Cylinder Flow – Head End Flow | 93 L/min | 24.6 gal/min |
| Tilt Cylinder Flow – Rod End Flow | 66 L/min | 17.4 gal/min |

## Hydraulic Controls – Main Relief Valve

| | | |
|---|---|---|
| Pressure Setting – Steering | 27 600 kPa | 4,000 psi |

- Rated Implement Pump Speed 2006 rpm.
- Rated Steering Pump Speed 2516 rpm.

## Hydraulic Controls – Maximum Operating Pressure

| | | |
|---|---|---|
| Bulldozer | 27 600 kPa | 4,000 psi |
| Tilt Cylinder | 27 600 kPa | 4,000 psi |
| Ripper (Lift) | 27 600 kPa | 4,000 psi |
| Ripper (Pitch) | 27 600 kPa | 4,000 psi |
| Steering | 41 000 kPa | 5,950 psi |

## Ripper

| | | |
|---|---|---|
| Type | Multi-Shank | |
| Number of Pockets | 3 | |
| Overall Beam Width | 2088 mm | 82.2 in |
| Beam Cross Section | 355 mm | 14.0 in |
| Maximum Clearance Raised (under tip, pinned in bottom hole) | 588 mm | 23.1 in |
| Maximum Penetration | 650 mm | 25.6 in |
| Maximum Penetration Force | 8908 kg | 19,639 lb |
| Pryout Force | 23 902 kg | 52,695 lb |
| Weight – with One Shank | 1650 kg | 3,572 lb |
| Each Additional Shank | 150 kg | 330 lb |
| Ramp Angle | 26 Degrees | |
| Pocket Spacing | 900 mm | 35.4 in |
| Shank Gauge | 1800 mm | 70.9 in |
| Shank Section | 72 mm × 228 mm 2.8 in × 9.0 in | |

# D7E Track-Type Tractor Specifications

## Winch

| | | |
|---|---|---|
| Winch Model | PA90 | |
| Weight* | 1520 kg | 3,350 lb |
| Oil Capacity | 12 L | 3.2 gal |
| Winch and Bracket Length | 1115 mm | 93.9 in |
| Winch Case Length | 1110 mm | 43.7 in |
| Winch Case Width | 826 mm | 32.5 in |
| Increased Tractor Length – STD | 1032 mm | 93.9 in |
| Increased Tractor Length – LGP | 1032 mm | 93.9 in |
| Drum Diameter | 318 mm | 12.5 in |
| Drum Width | 226 mm | 8.9 in |
| Flange Diameter | 610 mm | 24 in |
| Drum Capacity – 24 mm (1 in) | 62 m | 203 ft |
| Drum Capacity – 29 mm (1.13 in) | 56 m | 185 ft |
| Ferrule Size (O.D. × Length) | 60 mm × 65 mm<br>2.38 in × 2.56 in | |
| Winch Drive | Hydraulic | |
| Control | Electronic/Hydraulic | |
| Installed Weight | 1520 kg | 3,350 lb |
| Winch Length | 1115 mm | 43.9 in |
| Overall Width | 1090 mm | 43 in |
| Throat Clearance | 218 mm | 8.6 in |
| Rope Diameter (recommended) | 25 mm | 1 in |
| Cable Ferrule Size (O.D. × Length) | 60 mm × 65 mm<br>2.38 in × 2.56 in | |
| Maximum Bare Drum Line Pull | 40 800 kg | 90,000 lb |
| Maximum Bare Drum Line Speed | 21 m/min | 70 ft/min |
| Maximum Full Drum Line Pull | 25 800 kg | 57,000 lb |
| Maximum Full Drum Line Speed | 35 m/min | 116 ft/min |

* Basic winch weight, mounting arrangement, hydraulic and electrical system weight.

## Standards

| | |
|---|---|
| ROPS/FOPS | SAE 1040,<br>ISO 3471-1994/<br>ISO 3449-2005,<br>SAE 5231 |
| Brakes | ISO 10265 2008 |
| Cab | ANSI/SAE J1166<br>OCT 98 |

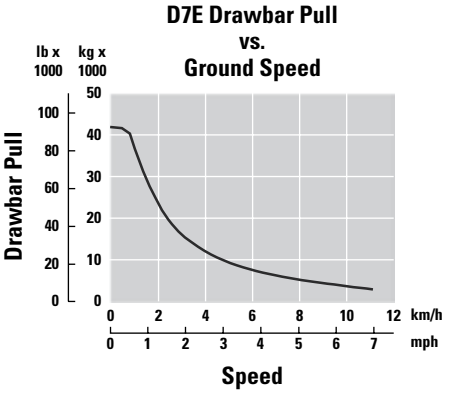
- The operator sound exposure Leq (equivalent sound pressure level) measured according to the work cycle procedures specified in ANSI/SAE J1166 OCT 98 is 77 dB(A), and as measured by ISO 6396: 2008 is 73 dB(A), for cab offered by Caterpillar, when properly installed and maintained and tested with the doors and windows closed.
- Hearing protection may be needed when operating with an open cab (when not properly maintained or doors/windows open) for extended periods and noisy environment.
- The exterior sound pressure level for the standard machine measured at a distance of 15 meters according to the test procedures specified in SAE J88 APR 95, mid-gear-moving operation, is 80 dB(A).

## Drive Train

| | |
|---|---|
| Type | Electric Drive |
| AC Compressor Nominal Input Voltage | 320 volts |
| AC Compressor Maximum Input Current | 12 amps |
| Electric Water Pump System Nominal Input Voltage | 320 volts |
| Electric Water Pump System Nominal Input Current | 5 amps |
| AC Generator and Propulsion Module Voltage | 480 volts |

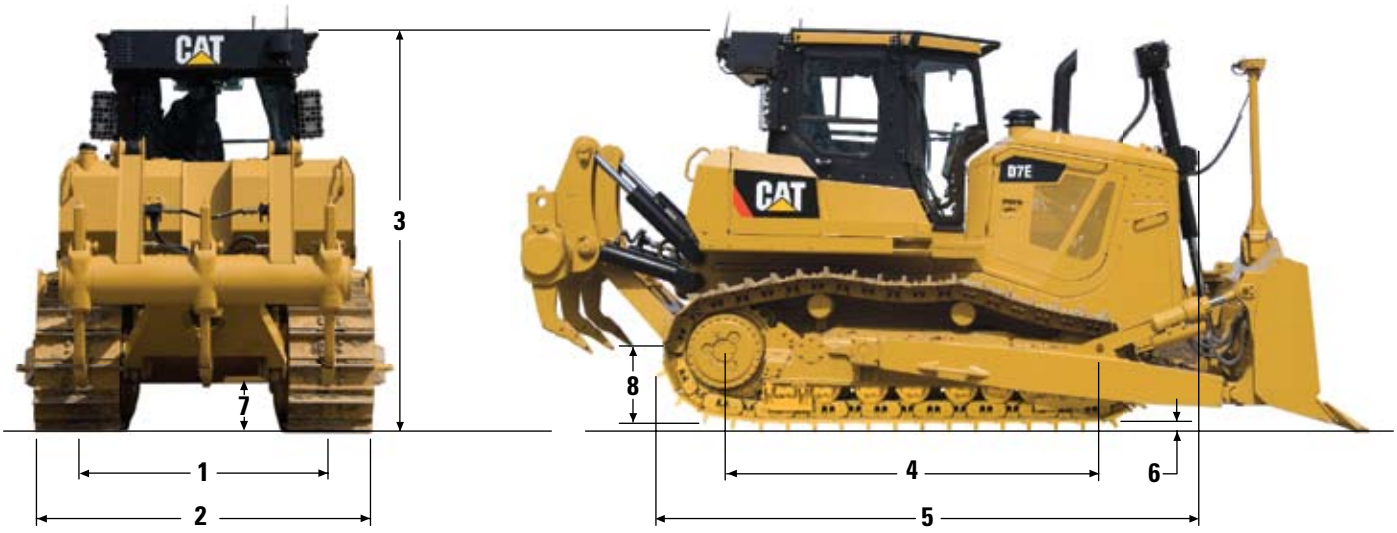
- Nominal current dependent on heat/humidity loading on HVAC unit.
- Measured with water pump operating speed of 4400 rpm. Measurement is 1 amp with the water pump operating speed of 2100 rpm.

## Drawbar Pull



## Dimensions

All dimensions are approximate




| | | STD | | LGP | |
|---|---|---|---|---|---|
| **1** | Track Gauge | 1981 mm | 78 in | 2286 mm | 90 in |
| **2** | Width of Tractor over Trunnions | 2880 mm | 113 in | 3423 mm | 135 in |
| | Width of Tractor without Trunnions (std. shoes) | 2591 mm | 102 in | 3200 mm | 126 in |
| **3** | Machine Height from Tip of Grouser | | | | |
| | Top of Stack | 3365 mm | 132 in | 3365 mm | 132 in |
| | Top of Standard Cab | 3392 mm | 134 in | 3392 mm | 134 in |
| | From Ground Face of Shoe | 3322 mm | 131 in | 3322 mm | 131 in |
| **4** | Length of Track on Ground | 3016 mm | 119 in | 3450 mm | 136 in |
| **5** | Length of Basic Tractor | 4608 mm | 181 in | 4608 mm | 181 in |
| | With the following attachments add to basic tractor length: | | | | |
| | Ripper (with tip at ground line) | 1391 mm | 55 in | N/A | |
| | Ripper (with tip fully raised) | 1222 mm | 48 in | N/A | |
| | Winch | 1032 mm | 41 in | 1032 mm | 41 in |
| | Drawbar | 270 mm | 10.6 in | 270 mm | 10.6 in |
| | S Blade | 977 mm | 38 in | 977 mm | 38 in |
| | SU Blade | 1187 mm | 47 in | 1187 mm | 47 in |
| | U Blade | 1425 mm | 56 in | 1425 mm | 56 in |
| | A Blade | 1230 mm | 48 in | 1230 mm | 48 in |
| **6** | Height of Grouser | 70 mm | 2.75 in | 70 mm | 2.75 in |
| **7** | Ground Clearance | 472 mm | 18.6 in | 472 mm | 18.6 in |
| | Ground Contact Area (std. shoes) | 3.68 $m^2$ | 5,698 $in^2$ | 6.31 $m^2$ | 9,792 $in^2$ |
| | Number of Shoes per Side | 40 | | 44 | |
| | Standard Shoe Width and Type | 610 mm | 24 in | 915 mm | 36 in |
| | | MS | | MS | |
| | Ground Pressure | 0.699 $kg/cm^2$ | 9.9 psi | 0.446 $kg/cm^2$ | 6.3 psi |
| | Pitch | 215.9 mm | 8.5 in | 215.9 mm | 8.5 in |
| | Track Rollers/Side | 7 | | 8 | |
| | Number of Carrier Rollers | 2 | | 2 | |
| **8** | Drawbar Height (grouser tip to center of clevis) | 719 mm | 28 in | 719 mm | 28 in |

# D7E Track-Type Tractor Specifications

## Bulldozer Specifications

| Blade | | | | | 7A | | |
|---|---|---|---|---|---|---|---|
| | | 7S | 7SU | 7U | Straight | Angled 25° | 7S LGP |
| Blade Capacity (SAE J1265) | $m^3$ | 5.16 | 6.86 | 8.34 | 5.15 | – | 5.89 |
| | $yd^3$ | 6.75 | 8.98 | 10.91 | 6.74 | – | 7.7 |
| Width (over end bits) | mm | 3904 | 3693 | 3988 | 4503 | 4120 | 4545 |
| | ft | 12.81 | 12.12 | 13.08 | 14.77 | 13.52 | 14.91 |
| Height | mm | 1363 | 1524 | 1553 | 1373 | 1373 | 1343 |
| | ft | 4.5 | 5 | 5.1 | 4.5 | 4.5 | 4.4 |
| Digging Depth | mm | 586 | 586 | 586 | 711 | 711 | 644 |
| | in | 23.1 | 23.1 | 23.1 | 28 | 28 | 25.4 |
| Ground Clearance | mm | 1108 | 1108 | 1108 | 1120 | 1120 | 1264 |
| | in | 43.6 | 43.6 | 43.6 | 44.1 | 44.1 | 49.8 |
| Maximum Tilt | mm | 1045 | 987 | 1085 | 695 | 695 | 785 |
| | in | 41.1 | 38.9 | 42.7 | 27.4 | 27.4 | 30.9 |
| Weight* | kg | 3504 | 3832 | 3806 | 3790 | 3790 | 3970 |
| | lb | 7,709 | 8,431 | 8,373 | 8,330 | 8,330 | 8,734 |

* Weight includes cylinder mounting, lift cylinder and lines, blade, push arms, trunnions, and cylinder lines (Tilt).

## Undercarriage

| Type | Heavy Duty/SystemOne Undercarriage | | | |
|---|---|---|---|---|
| Configuration | STD | | LGP | |
| Number of Rollers (each side) | 7 | | 8 | |
| Number of Shoes (each side) | 40 | | 44 | |
| Pitch | 216 mm | 8.5 in | 216 mm | 8.5 in |
| Shoe Width | 610 mm | 24 in | 915 mm | 36 in |
| Grouser Height (MS) | 70 mm | 2.75 in | 70 mm | 2.75 in |
| Length of Track on Ground (Heavy Duty) | 3016 mm | 119 in | 3450 mm | 136 in |
| Length of Track on Ground (SystemOne) | 3021 mm | 119 in | 3455 mm | 136 in |
| Track Gauge | 1981 mm | 78 in | 2286 mm | 90 in |
| Ground Contact Area (Heavy Duty) | 3.68 $m^2$ | 5,698 $in^2$ | 6.31 $m^2$ | 9,792 $in^2$ |
| Ground Pressure (Heavy Duty) | 69.9 kPa | 9.9 psi | 44.6 kPa | 6.3 psi |
| Ground Clearance | 472 mm | 18.6 in | 472 mm | 18.6 in |

# D7E Standard Equipment

Standard equipment may vary. Consult your Caterpillar dealer for details

ELECTRICAL
Accessory Power Converter (APC)
Alarm, Backup
Batteries, Heavy Duty
Converter, 24V to 12V, 10 Amp
Heater, Engine Coolant, 120V
Horn, Forward Warning

OPERATOR ENVIRONMENT
Air Suspension Seat
Armrest, Adjustable
Bidirectional Shift Switch
Center Post Cab, ROPS/FOPS
Continuously Variable Speed Control
Differential Steering
Electro-Hydraulic Controls
Electronic Monitoring System
Foot Supports, Dash
Hour Meter, Electronic
Machine Isolation, Operator Presence
Mirror, Rearview
Modular HVAC, Cab Mounted
Radio Ready, 12V
Seat Belt, Retractable 3" (76 mm)
Speed Recall Button
Throttle Dial, Electronic
Tilt Cab and Tilt Cab Jack
Travel Control Pedal
Wipers, Intermittent

POWER TRAIN
Aftercooler
Air Cleaner, precleaner with strata tube dust ejector
C9.3 ACERT Engine
Continuously Variable Speed Transmission
Coolant, Extended Life
Drains, Ecology, Power Train
Electronic Air Cleaner Service Indicator
Fan, Hydraulically Driven Demand
Final Drives, Double Reduction
Fuel Priming Pump, Electronic
Muffler
Parking Break, Electronic
Prescreener
Starting Aid, Ether
Turbocharger, Wastegated
Water Separator

UNDERCARRIAGE
Heavy Duty Track (610 mm/24" MS)
Heavy Duty Track (914 mm/36" MS) (LGP)
Guards, End Track Guiding
Idler Guards
Master Link
Rollers and Idlers, Lifetime Lubricated
Sprocket Rim Segments, Replaceable
Track Adjusters, Gas Spring Recoil, Grease Track Adjust

OTHER STANDARD EQUIPMENT
CD ROM Parts Book
Engine Enclosures, Perforated
Front Tow Hook
Grade Control Ready
Guards, Hinged Bottom
Hood, Perforated
Hydraulics, Load Sensing, Dozer Lift and Tilt
Oil Cooler, Hydraulic
S•O•S℠ Sampling Ports
Radiator Doors, Louvered, Double Hinged
Vandalism Protection for Fluid Compartments and Battery Box

# D7E Optional Equipment

Optional equipment may vary. Consult your Caterpillar dealer for details

610 mm, 660 mm, 914 mm (24", 26", 36") Track Pads
AccuGrade Ready Installation Arrangement
Black Hood and Back of Blade
Cold Weather Attachments
Engine Coolant Heater, 240 V
Enhanced Clean Cab
Fast Fuel
Final Drive Clamshell Guards
Final Drive Flange Protection
Forestry Arrangement
Front and Rear Screens
Heated Seat
Heavy Duty Grill Door, Hinged
Hydraulic Implement Towing Arrangement
Jump Starting Receptacle
Lights
Basic (6) Lights
Premium (10) HID Lights
Premium (10) Lights
Multi-shank Ripper and Ripper Hydraulics
Power Train Oil Change System
Product Link
Rear Vision Camera
Reversible Fan
SU (Semi-universal), U (Universal), (S) Straight, and Angle Blades
Sweeps (without canopy)
SystemOne Undercarriage
Track Guide Guards
Turbine Precleaner
Waste (Landfill) Arrangements
Winch Arrangement (PACCAR PA90)
Winch Hydraulics
Woodchip Arrangement

# D7E Track-Type Tractor

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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