

# D8T

## Track-Type Tractor



### Engine

Engine Model	Cat® C15 ACERT™	
Global Emissions	U.S. Tier 4 Interim/EU Stage IIIB	
Gross Power – SAE J1995	259 kW	348 hp
Gross Power – ISO 14396	237 kW	318 hp
Gross Power – ISO 14396 (DIN)		322 hp
Net Power – SAE J1349	231 kW	310 hp
Net Power – ISO 9249	231 kW	310 hp
Net Power – ISO 9249 (DIN)		314 hp

### Weights

Operating Weight	39 795 kg	87,733 lb
Shipping Weight	30 490 kg	67,219 lb

## D8T Features

### Powerful Productivity

Standard electro-hydraulic controls improve precision and response. Dedicated hydraulics and machine control systems aid overall productivity. Features like Enhanced Auto Shift and a Hydraulic Demand Fan help reduce overall fuel use and operating costs.

### Operator Station

Ease of operation, cab comfort and layout help keep operators focused and more productive.

### Engine and Emissions Technology

Cat® engine and aftertreatment solutions meet U.S. EPA Tier 4 Interim and EU Stage IIIB emissions standards.

### Integrated Electronic Solutions

Caterpillar offers a variety of technologies, like optional Cat Grade Control, to significantly enhance machine performance. Cat Product Link helps fleet managers maximize utilization and control costs.

### Serviceability and Customer Support

Ease of serviceability, Cat dealer support expertise and machine rebuild capability help reduce overall owning and operating costs.



## Contents

Operator Station.....	3
Engine .....	3
Emissions Technology.....	4
Powertrain.....	5
Implement and Steering Controls .....	6
Work Tools.....	7
Integrated Technologies.....	8
Cooling System.....	10
Undercarriage .....	10
Structures.....	11
Sustainability .....	11
Serviceability and Customer Support.....	12
Specifications.....	13
Standard Equipment.....	16
Optional Equipment.....	17
Notes.....	18

**The Cat® D8T has a long history of best-in-class versatility, productivity and resale value. Because it excels across a wide range of dozing tasks, customers choose the D8T for everything from dozing, ripping, scraper work and land clearing to rough finish grading. And with features designed for even greater comfort, productivity and fuel efficiency, today's D8T does even more to help you meet your business objectives. The D8T meets U.S. Tier 4 Interim/EU Stage IIIB emission standards.**

# Operator Station

## Comfort and convenience



The D8T cab is designed and equipped for operator productivity, safety and comfort. Large single-pane windows, tapered hood and notched fuel tank provide excellent visibility to all sides of the machine and around the job site. New standard and optional light packages extend the productive work day.

The D8T features an updated in-dash display with new functionalities. An improved Advisor Monitoring System tracks machine operating conditions in real time. An integrated grade control system display mount puts job site data conveniently in front of the operator.

Operators will enjoy comfort features like standard air-ride suspension seat, adjustable arm rests and well-positioned air vents. The cab is radio ready and includes a personal music player jack. A power converter supplies supplemental power for cellular phones and computers. New finishes make the cab easier to clean.

## Engine

### Power and reliability

The D8T features a Cat® C15 ACERT™ engine and a Cat Clean Emissions Module to deliver the performance and efficiency that customers demand, while meeting U.S. EPA Tier 4 Interim/EU Stage IIIB emissions standards.

The six-cylinder electronic engine is turbocharged and aftercooled. The displacement produces better lugging capability, lower internal stresses and longer component life.

ACERT Technology is a combination of building blocks that includes electronics, fuel systems, air management systems and aftertreatment components. The system is optimized based on engine size, the type of application and the geographic location in which it will work. The technologies are applied systematically and strategically to meet high customer expectations for productivity, fuel efficiency, reliability and service life.



# Emissions Technology

Reliable, integrated solutions



## Cat NOx Reduction System

The Cat NOx Reduction System captures and cools a small quantity of exhaust gas, then routes it into the combustion chamber where it drives down combustion temperatures and reduces NOx emissions.

## Aftertreatment Technologies

To meet Tier 4 Interim/Stage IIIB emissions standards and beyond, Cat aftertreatment components have been designed to match application needs. System components include a **Diesel Oxidation Catalyst (DOC)**, which uses a chemical process to convert regulated emissions in the exhaust system, and a **Diesel Particulate Filter (DPF)** that traps particulate matter that is carried into the exhaust stream.

The DOC, DPF and Cat Regeneration System are contained in a Caterpillar designed Clean Emissions Module (CEM) that protects the components, minimizes the aftertreatment footprint and simplifies maintenance. For high debris applications that require thermal shields on exhaust components, an optional insulated CEM is available for the D8T (available mid 2011).

## Cat Regeneration System

The Cat Regeneration System is designed to work transparently, without any interaction needed from the operator. Under most operating conditions, engine exhaust is hot enough to oxidize soot through passive regeneration. If supplemental regeneration is needed, the Cat Regeneration System elevates exhaust gas temperatures to burn off soot in the Diesel Particulate Filter (DPF). This is a process that happens automatically, but the operator can initiate the cycle when convenient or interrupt regeneration as needed. A soot level monitor and regeneration indicator lights are integrated into the D8T dash display.

**Key Off Regeneration** – Optional Key Off Regeneration allows the operator to initiate a regeneration cycle after the key has been turned off. If a cycle takes place, the engine will complete regeneration, followed by a cool down period prior to shutting down.

**Delayed Engine Shutdown** – Delayed Engine Shutdown feature is available to allow the machine to cool immediately after a heavy work load or regeneration cycle.

**Engine Idle Shutdown Timer** – An optional Engine Idle Shutdown timer will sound a warning and shut down the engine after the machine has been idling for a pre-set period of time.





# Powertrain

## Powerful efficiency

From engine to transmission to final drives, the D8T powertrain is designed to turn power into productive work. The D8T offers unmatched lugging capability and smooth shifting when changing gears under varying loads. The 3-speed forward, 3-speed reverse transmission, backed by differential steering, offers excellent run out speeds and accurate steering capability.

### **Torque Divider**

A robust, high efficiency torque divider provides high torque multiplication to move heavy loads, while shielding the drive train from sudden torque shocks and vibration.

### **Differential Steering System**

Differential steering maintains full power to both tracks for best-in-class turning under load. When one track speeds up, the other slows down an equal amount. Maneuverability – especially with large blade loads – is improved, as well as cycle times in some applications. Greater load capacity, power and speed control are possible in soft underfoot conditions on steep slopes because both tracks are powered during turns.

### **Planetary Power Shift Transmission**

The planetary power shift transmission offers smooth shifting and quick speed and directional changes for maximum productivity. The transmission is built for long life, and a modular design allows for ease of service without removing other components.

### **Enhanced Auto Shift**

The new Enhanced Auto Shift feature uses the simple “shift up, idle back” principle during forward and reverse travel to save fuel and improve overall dozing cycle fuel efficiency.

### **Auto-Shift/Auto-Kickdown**

Auto-shift allows the operator, by just making a directional change, to go from preset forward to preset reverse gears. Auto-kickdown automatically downshifts the transmission when significant load increases are detected. These features are especially useful when backfilling or rough grading. Operators can select from a variety of settings, and can override the automatic shift features at any time.



# Implement and Steering Controls

Ergonomically designed for ease of operation

## Steering and Transmission Control

A new steering tiller is ergonomically designed to improve operator comfort. The new thumb roller on the steering control shifts the electronically controlled powershift transmission. The tiller allows precise steering in close areas with the finest modulation in the industry.

## Dozer Control Lever

The D8T features an ergonomically designed dozer lever with low effort, electro-hydraulic controls for added operator comfort, ease of operation and precise work tool control. Features such as blade response, blade float, auto blade pitch and spread rate can be set up and adjusted using the Advisor panel. When equipped, single-handle convenience also controls functions like AccuGrade, Auto Blade Assist, AutoCarry™, Cat Grade Control and Dual Tilt.

## Electronic Ripper Control

A rigidly mounted handgrip provides firm support for the operator even when ripping in the roughest terrain. Thumb and fingertip controls direct ripper functions. Programmable features like Auto Lift, Shank-Out, Auto Stow and Automatic Ripper Control help increase operator efficiency.

## Throttle Rocker Switch

One touch of the throttle rocker switch automatically adjusts engine speed to high or low idle. A new feature allows the operator to press and hold until desired engine speed is reached, then release for the machine to maintain the new chosen speed.

# Work Tools

## Equipped for versatility

### Bulldozers

Blades are made of high tensile strength steel with a strong box-section design to stand up to the most severe applications. Heavy moldboard construction and hardened bolt-on cutting edges and end bits add strength and durability. Optional rock guards and deflector shields help protect cylinders. **High-Capacity Universal, Semi-Universal and Angle Blades** are available, as well as special configurations for coal and woodchip stockpile applications.

### Optional Dual Tilt

Dual Tilt improves load control and allows the operator to optimize the blade pitch angle for better balance and productivity. The operator can tilt the blade forward during each pass for better penetration, then tilt it back to increase carrying capacity.

### Rippers

The standard D8T implement valve incorporates the components necessary to install a ripper, helping to improve versatility and resale value. A **Single-Shank Ripper** is the best choice in severe applications. The shank is mounted close to the rear idler for excellent penetration force. A **Multi-Shank Ripper** is used in less severe applications or if ripping near a high wall. This configuration offers the flexibility of using one, two or three shanks.

### Hydraulics

Field-proven load-sensing hydraulics respond to operating requirements by automatically and continually adjusting attachment hydraulic power for maximum efficiency. The variable displacement of the high efficiency pumps supplies maximum flow rates for tough applications, implement power on operator demand, and consistent pressure output for quick response. The variable flow design minimizes hydraulic oil temperatures and saves fuel.

### Rear Counterweights

Rear counterweights provide proper tractor balance to maximize dozing production and are recommended when tractor is not equipped with any other rear attachment.

### Winches

Please consult your Cat dealer for available winch options.



# Integrated Technologies

Solutions to make work easier and more efficient



Caterpillar is the only manufacturer to offer wholly-integrated electronic solutions that enable greater accuracy, higher productivity, lower operating costs and more profitability.

## **Grade Control Ready**

Grade Control Ready (GCR) is standard, with deeply integrated harnesses incorporated into the machine during assembly. This integration allows for easy installation of the AccuGrade Ready Option (ARO) and AccuGrade machine control and guidance system as business needs demand, or for improved resale value. The machine dashboard also includes space to install an AccuGrade display.

## **AccuGrade Ready Option**

The D8T can be ordered from the factory with optional brackets and hardware installed, making the tractor ready to plug in the dealer installed AccuGrade machine control and guidance system. The factory installed ARO simplifies the dealer installation of the AccuGrade components and integration into the machine helps protect components to enhance system robustness.

## **Cat AccuGrade**

AccuGrade is a dealer installed machine control and guidance system which enables operators to cut and fill to grade with increased accuracy, minimizing the need for traditional stakes and grade checkers. AccuGrade uses advanced Laser, Global Navigation Satellite System (GNSS) and/or Universal Tracking Station (UTS) technology, machine-mounted components and off-board hardware. This state-of-the-art machine control system provides precise elevation information on an in-cab display to achieve accurate blade positioning. By displaying real-time cut/fill information in the cab, operators can improve their efficiency and get to grade faster with fewer passes than ever before. The AccuGrade System significantly improves the productivity and accuracy of grading equipment – by as much as 50 percent over conventional methods.

## **Computer Aided Earthmoving System (CAES)**

Optional technology gives direction on cut and fill without survey stakes. Graphical design plan shows machine's horizontal and vertical position to simplify operation and enhance production. Combines cab-mounted GNSS technology for grade and slope control and has proven impact on work quality and overall productivity. Ideal applications include leach pads, dump areas and reclamation sites. Helps operators consistently and confidently work to specification the first time, eliminating costly re-work and aiding equipment utilization.



## Cat Product Link

Remote monitoring with Product Link improves overall fleet management effectiveness. Product Link is deeply integrated into machine systems. Events and diagnostic codes, as well as hours, fuel, idle time and other detailed information are transmitted to a secure web based application, VisionLink™. VisionLink includes powerful tools to convey information to users and dealers, including mapping, working and idle time, fuel level and more.

## Cat Grade Control (Available mid-2011)

Cat Grade Control is an option that integrates traditional machine control and guidance with machine hardware and software to help improve productivity, usability, reliability and value.

Factory integrated harnesses and sensors allow for real-time blade tip positioning and offer protection from harsh working environments. Cat Grade Control is a chassis mounted system that moves the traditional blade edge positioning technology to the top of the cab. This first-of-its-kind design helps reduce receiver damage, enhances visibility for the operator and eliminates a receiver/antennae, masts and cables. The chassis mounted design also allows for accurate “track mapping,” enabling the machine to map job site progress without additional personnel on the ground.

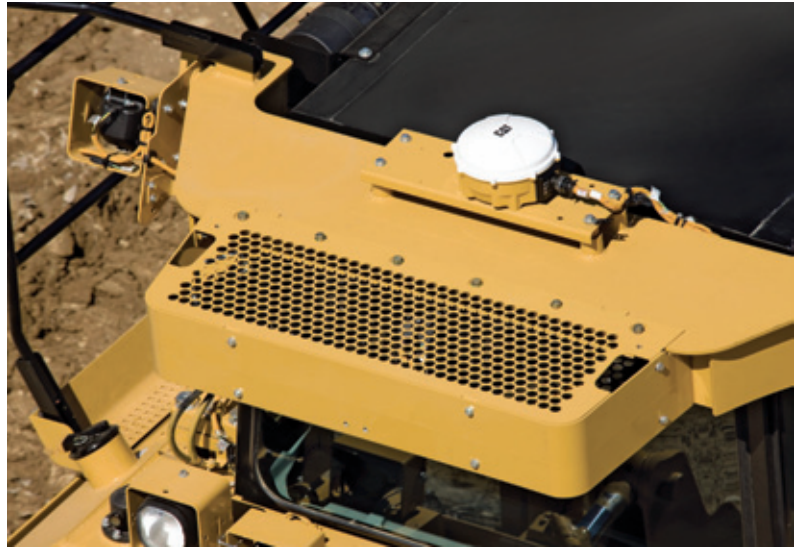
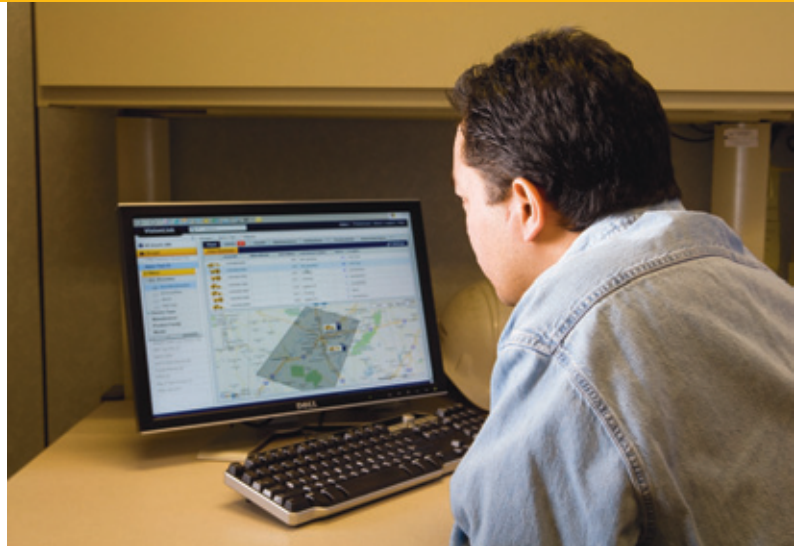
Cat Grade Control software is enhanced to automatically guide the blade to the desired design contours. Integrated with AutoCarry, it also senses and controls the load of the blade for improved performance and efficiency in high production dozing applications.

**AutoCarry™** – Automates blade lift control to maintain a desired blade load, improve job consistency and to reduce operator fatigue. Works seamlessly with Cat Grade Control and Auto Blade Assist. This new generation in integrated machine control and guidance makes the track-type tractor not only a grading machine, but a high productivity solution.

**Automatic Ripper Control** – Assists the operator by automatically controlling ripper depth based on track slip. This helps operators be more productive, as well as reduces wear and tear on the machine.

**Auto Blade Assist** – Automates blade pitch and lift control during a typical dozing cycle to help reduce operator fatigue. Functionality varies depending on the components and software installed on the machine and can be operated in conjunction with AutoCarry.

**Grade Protection** – Operating mode that prevents blade tips from going below the site design plan. Grade Protection overrides/blocks manual commands when necessary to limit blade travel, offering operators added confidence.



# Cooling System

Durable and efficient

The engine radiator, Air To Air After Cooler (ATAAC) and hydraulic oil cooler are packaged in a single plane. Aluminum bar plate construction aids durability and allows for higher heat transfer and superior corrosion resistance. The standard cores feature 6 fins per inch to allow debris to pass through and reduce plugging concerns.

In cooler conditions, a **Hydraulically Driven Demand Fan** reduces speed to conserve power, save fuel, and decrease sound levels.

An optional **Reversing Fan** can be set to change air flow direction, efficiently removing debris from the cooling cores without the operator leaving the cab. To improve core serviceability, the cooling package also includes air wand or brush access slots. The ROPS mounted air conditioning system works with the reversing fan for optimum fan purging and ambient cooling capability.



## Undercarriage

Engineered for performance

The D8T features the Cat elevated sprocket design that isolates final drives, axles, and steering components from harsh impacts. The modular design aids serviceability to help reduce maintenance costs. A variety of undercarriage configurations and track shoe designs help optimize performance and undercarriage life.

**Heavy Duty Undercarriage** with Positive Pin Retention Moderate Service Sealed and Lubricated Track (SALT) is standard. This undercarriage is well suited to aggressive applications like land clearing, side-slopes, or working in rocky or uneven terrain. Components are designed for extended wear life in abrasive conditions and high impact applications.

**SystemOne™ Undercarriage** is available as an option and can help reduce total undercarriage owning and operating costs in many applications. SystemOne features lifetime sealed and lubricated cartridges to eliminate bushing turns, and sprockets require no replacement during the life of the chain. All SystemOne undercarriage components are designed to work and wear as a system for longer track life.



# Structures

Engineered for maximum production and service life



The D8T mainframe is built industry-leading tough – heavy steel castings, full box section frame rails and continuous rolled sections on top and bottom frame rails provide the strength to absorb high impact shock loads and twisting forces.

The D8T pivot shaft runs through the mainframe and connects to the roller frames, allowing independent oscillation. The full-length pivot shaft distributes impact loads throughout the case, reducing the bending stress on the case. The Tag-Link brings the blade closer to the machine for more precise dozing and load control. The design provides solid lateral stability and better cylinder positions for constant break out force, independent of blade height.

Cat track-type tractor frames set the industry standard for durability. Major structures and components are built to be rebuilt, reducing waste and replacement costs.

## Sustainability

Thinking generations ahead

Benefits of the Cat D8T include the following:

- Meets Tier 4 Interim/Stage IIIB emissions standards.
- Features like Enhanced Auto Shift and a Hydraulic Demand Fan help decrease overall fuel consumption.
- Technologies like AccuGrade, Cat Grade Control and Product Link help improve overall efficiency, saving fuel and fluids, as well as wear and tear on equipment.
- New grab handles, steps, lighting packages and a ground level service center help enhance job site safety.
- Major components are built to be rebuilt, eliminating waste and saving customers money by giving the machine and/or major components a second – and even third – life.



# Serviceability and Customer Support

When uptime counts



## Ease of Serviceability

The D8T offers full left-side engine serviceability, including fill tube, dipstick, air cleaner, fuel filters, oil filter and coolant level check. Cooling system access is also improved for inspection and cleaning. To reduce maintenance cost and time, the D8T features a new high capacity filter element and improved powertrain filter bypass strategy to extend service intervals. The in-cab monitoring system also provides electronic fluid level verification at startup for the coolant, powertrain and engine oil systems.

## Ground Level Service Center

The new ground level service center is accessible on the left hand fender without setting foot on the machine, giving easy access to the battery disconnect, secondary engine shutdown and access light switches. A digital hour meter is also available.

## Access/Egress

Newly designed steps and handrails make climbing on and off the tractor easier than ever. An access light switch turns on the cab or exterior light for night time visibility when mounting/dismounting the machine.

An Operator Presence Detection system allows the machine to idle when an operator is not in the seat. The system locks out the powertrain so any unintentional movements during ingress or egress will not physically move the machine.

## Renowned Cat Dealer Support

From helping you choose the right machine to knowledgeable ongoing support, Cat dealers provide the best in sales and service. Manage costs with preventive maintenance programs like Custom Track Service, Scheduled Oil Sampling (S·O·S<sup>SM</sup>) analysis, and guaranteed maintenance contracts. Stay productive with best-in-class parts availability. Cat dealers can even help you with operator training to help you boost your profits.

And when it's time for machine replacement, your Cat dealer can help you save even more with Genuine Cat Reman parts. Receive the same warranty and reliability as new products at cost savings of 40 to 70 percent for powertrain and hydraulic components.

## Engine

Engine Model	Cat® C15 ACERT™	
Global Emissions	U.S. Tier 4 Interim/ EU Stage IIIB	
Gross Power – SAE J1995	259 kW	348 hp
Gross Power – ISO 14396	237 kW	318 hp
Gross Power – ISO 14396 (DIN)		322 hp
Net Power – SAE J1349	231 kW	310 hp
Net Power – ISO 9249	231 kW	310 hp
Net Power – ISO 9249 (DIN)		314 hp
Net Power – EU 80/1269	231 kW	310 hp
Bore	137 mm	5.4 in
Stroke	172 mm	6.75 in
Displacement	15.2 L	928 in <sup>3</sup>

- Engine ratings apply at 1,850 rpm.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator.
- No derating required up to 3566 m (11,700 ft) altitude, beyond 3566 m (11,700 ft) automatic derating occurs.

## Service Refill Capacities

Fuel Tank	643 L	170 gal
Cooling System	77 L	20.3 gal
Engine Crankcase*	38 L	10 gal
Powertrain	155 L	41 gal
Final Drives (each)	12.5 L	3.3 gal
Roller Frames (each)	65 L	17.2 gal
Pivot Shaft Compartment	40 L	10.6 gal
Hydraulic Tank	75 L	19.8 gal

\* With oil filters.

## Weights

Operating Weight	39 795 kg	87,733 lb
Shipping Weight	30 490 kg	67,219 lb

- Operating Weight: Includes hydraulic controls, blade tilt cylinder, coolant, lubricants, 100% fuel, ROPS, FOPS cab, SU-Blade, Single-Shank Ripper, 610 mm (24 in) MS shoes, and operator.
- Shipping Weight: Includes coolant, lubricants, 20% fuel, ROPS, FOPS cab, and 610 mm (24 in) MS shoes.

## Undercarriage

Shoe Type	Moderate Service	
Width of Shoe	610 mm	24 in
Shoes/Side	44	
Grouser Height	78 mm	3 in
Pitch	216 mm	8.5 in
Ground Clearance	618 mm	24.3 in
Track Gauge	2082 mm	82 in
Length of Track on Ground	3207 mm	10.5 ft
Ground Contact Area	3.58 m <sup>2</sup>	5,554 in <sup>2</sup>
Track Rollers/Side	8	
Number of Carrier Rollers	1 per side (optional)	

- Positive Pin Retention Track.

## Hydraulic Controls

Pump Type	Piston-type, Variable Displacement	
Pump Output (Steering)	276 L/min	73 gal/min
Pump Output (Implement)	226 L/min	60 gal/min
Tilt Cylinder Rod End Flow	130 L/min	34 gal/min
Tilt Cylinder Head End Flow	170 L/min	45 gal/min
Bulldozer Relief Valve Setting	24 000 kPa	3,480 psi
Tilt Cylinder Relief Valve Setting	24 000 kPa	3,480 psi
Ripper (Lift) Relief Valve Setting	24 000 kPa	3,480 psi
Ripper (Pitch) Relief Valve Setting	24 000 kPa	3,480 psi
Steering	39 200 kPa	5,700 psi

- Steering Pump output measured at 2,300 rpm (pump speed) and 30 000 kPa (4,351 psi).
- Implement Pump output measured at 1,850 rpm and 6895 kPa (1,000 psi).
- Electro-hydraulic pilot valve assists operations of ripper and dozer controls. A standard hydraulic system includes four valves.
- Complete system consists of pump, tank with filter, oil cooler, valves, lines, linkage and control levers.

## Transmission

1 Forward	3.4 kph	2.1 mph
2 Forward	6.1 kph	3.8 mph
3 Forward	10.6 kph	6.6 mph
1 Reverse	4.5 kph	2.8 mph
2 Reverse	8 kph	5 mph
3 Reverse	14.2 kph	8.8 mph
1 Forward – Drawbar Pull (1000)	618.5 N	139 lbf
2 Forward – Drawbar Pull (1000)	338.2 N	76 lbf
3 Forward – Drawbar Pull (1000)	186.9 N	42 lbf

# D8T Specifications

## Blades

Type	8SU	
Capacity (SAE J1265)	8.7 m <sup>3</sup>	11.4 yd <sup>3</sup>
Width (over end bits)	3940 mm	12.9 ft
Height	1690 mm	5.5 ft
Digging Depth	575 mm	22.6 in
Ground Clearance	1225 mm	48.2 in
Maximum Tilt	883 mm	34.8 in
Weight* (without hydraulic controls)	4789 kg	10,557 lb
Total Operating Weight** (with Blade and Single-Shank Ripper)	39 795 kg	87,733 lb

Type	8U	
Capacity (SAE J1265)	11.7 m <sup>3</sup>	15.3 yd <sup>3</sup>
Width (over end bits)	4267 mm	14 ft
Height	1740 mm	5.71 ft
Digging Depth	575 mm	22.6 in
Ground Clearance	1225 mm	48.2 in
Maximum Tilt	954 mm	37.5 in
Weight* (without hydraulic controls)	5352 kg	11,800 lb
Total Operating Weight** (with Blade and Single-Shank Ripper)	40 358 kg	88,974 lb

Type	8A	
Capacity (SAE J1265)	4.7 m <sup>3</sup>	6.1 yd <sup>3</sup>
Width (over end bits)	4990 mm	16.3 ft
Height	1174 mm	3.85 ft
Digging Depth	628 mm	24.7 in
Ground Clearance	1308 mm	51.5 in
Maximum Tilt	729 mm	28.7 in
Weight* (without hydraulic controls)	5459 kg	12,035 lb
Total Operating Weight** (with Blade and Single-Shank Ripper)	40 465 kg	89,210 lb

\*Includes blade tilt cylinder.

\*\*Operating Weight: Includes hydraulic controls, blade tilt cylinder, coolant, lubricants, 100% fuel, ROPS, FOPS cab, blade, single-shank ripper, 610 mm (24 in) MS shoes, and operator.

## Rippers

Type	Single-Shank, Adjustable Parallelogram	
Number of Pockets	1	
Maximum Clearance Raised (under tip, pinned in bottom hole)	636 mm	25 in
Maximum Penetration (standard tip)	1130 mm	44.4 in
Maximum Penetration Force (shank vertical)	127.3 kN	28,620 lb
Pry out Force	222.7 kN	50,070 lb
Weight (without hydraulic controls)	4085 kg	9,005 lb
Total Operating Weight* (with SU-Blade and Ripper)	39 795 kg	87,733 lb

Type	Multi-Shank, Adjustable Parallelogram	
Number of Pockets	3	
Overall Beam Width	2464 mm	97 in
Maximum Clearance Raised (under tip, pinned in bottom hole)	593 mm	23.35 in
Maximum Penetration (standard tip)	780 mm	30.7 in
Maximum Penetration Force (shank vertical)	124.2 kN	27,920 lb
Pry out Force (Multi-Shank Ripper with one tooth)	227.9 kN	51,230 lb
Weight (one shank, without hydraulic controls)	4877 kg	10,752 lb
Additional Shank	332 kg	732 lb
Total Operating Weight* (with SU-Blade and Ripper)	40 587 kg	89,479 lb

\*Total Operating Weight: Includes hydraulic controls, blade tilt cylinder, coolant, lubricants, 100% fuel, ROPS, FOPS cab, blade, single-shank ripper, 610 mm (24 in) MS shoes, and operator.

## Winches

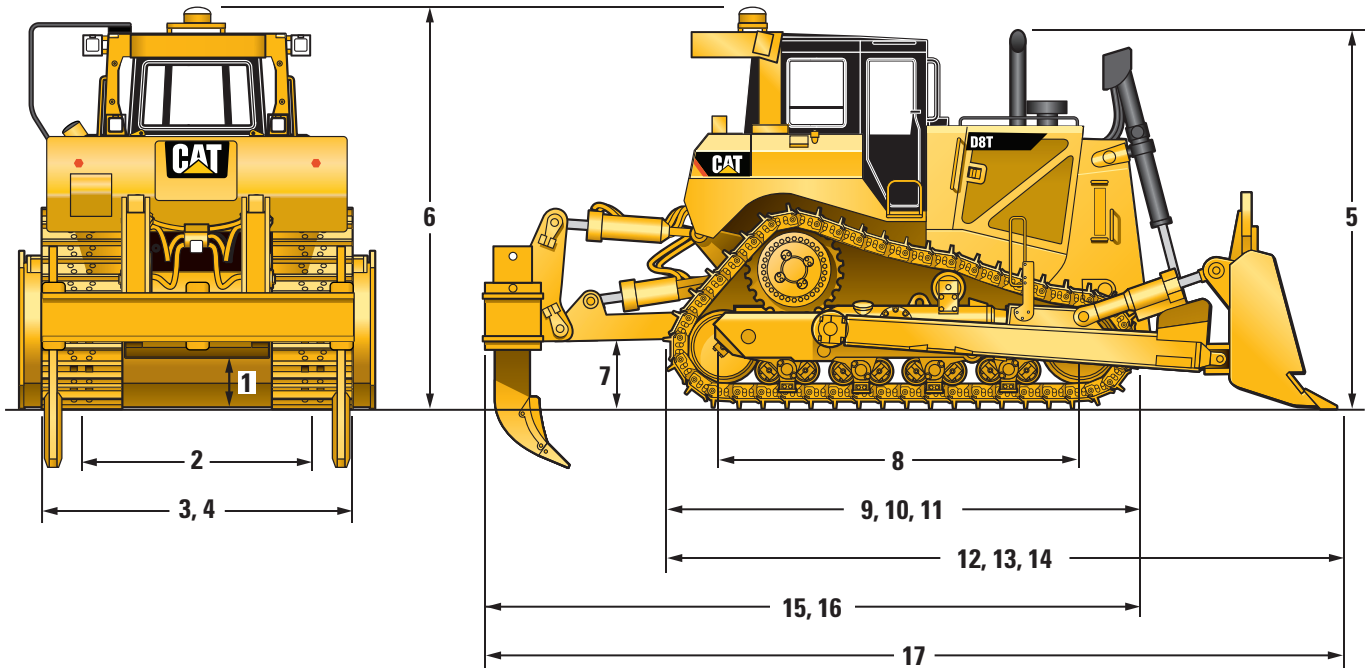
Winch Model	PA14OVS	
Weight*	1790 kg	3,947 lb
Oil Capacity	15 L	4 gal
Increased Tractor Length	563 mm	22.2 in
Winch Length	1430 mm	56.3 in
Winch Case Width	1160 mm	45.6 in
Drum Width	320 mm	12.6 in
Flange Diameter	457 mm	18 in
Recommended Cable Size	29 mm	1.13 in
Optional Cable Size	32 mm	1.25 in
Drum Capacity – Recommended Cable Size	84 m	276 ft
Drum Capacity – Optional Cable	59 m	193 ft
Cable Ferrule Sizes – Outside Diameter	60 mm	2.36 in
Cable Ferrule Sizes – Length	70 mm	2.76 in

• Variable speed, hydraulically driven, dual braking system, three roller fairlead.

\* Weight: Includes pump and operator controls.

## Dimensions

All dimensions are approximate.



<b>1</b> Ground Clearance	618 mm	24.3 in
<b>2</b> Track Gauge	2.08 m	6.8 ft
<b>3</b> Width without (Standard Shoe) Trunnions	2693 mm	8.8 ft
<b>4</b> Width Over Trunnions	3057 mm	10 ft
<b>5</b> Height (Top of Stack)	3518 mm	11.5 ft
<b>6</b> Height	3586 mm	11.8 ft
<b>7</b> Drawbar Height (Center of Clevis)	708 mm	27.9 in
<b>8</b> Length of Track on Ground	3207 mm	10.5 ft
<b>9</b> Overall Length Basic Tractor	4641 mm	15.2 ft
<b>10</b> Length Basic Tractor with Drawbar	4998 mm	16.4 ft
<b>11</b> Length Basic Tractor with Winch	5275 mm	17.3 ft
<b>12</b> Length with SU-Blade	6091 mm	20 ft
<b>13</b> Length with U-Blade	6434 mm	21.1 ft
<b>14</b> Length with A-Blade	6278 mm	20.6 ft
<b>15</b> Length with Single-Shank Ripper (Lowered)	6422 mm	21 ft
<b>16</b> Length with Multi-Shank Ripper (Lowered)	6344 mm	20.8 ft
<b>17</b> Overall Length (SU-Blade/SS Ripper, Lowered)	7872 mm	25.8 ft

# D8T Standard Equipment

Standard equipment may vary. Consult your Cat dealer for details.

## POWERTRAIN

C15 ACERT diesel engine with  
Electronic Unit Injection (EUI)  
EPA/ARB Tier 4 Interim and  
EU Stage IIIB Certified Engine  
with aftertreatment  
24-volt electric start  
High performance single plane  
cooling system  
Aftercooler, air-to-air (ATAAC)  
Air filter, with electronic  
service indicator  
Coolant, extended life  
Fan, suction, hydraulically driven  
Fuel priming pump, electric  
Sound attenuated exhaust system  
Parking brake, electronic  
Precleaner, strata-tube dust ejector  
Prescreener  
Shift management  
– Automatic directional and downshift  
– Controlled-throttle, load-compensated  
– Enhanced Autoshift  
Starting aid, automatic ether  
Torque divider  
Transmission, electronically-controlled  
– Powershift, 3F/3R speed  
Four planet, double-reduction  
– Planetary final drives  
Transmission control module, electronic  
Turbocharger  
Water separator

## UNDERCARRIAGE

Rollers and idlers, lifetime lubricated  
Sprocket rim segments, replaceable  
Suspension-type undercarriage  
8-roller tubular track roller frame  
(Carrier roller ready)  
Track adjusters, hydraulic  
Track guide  
610 mm (24 in) PPR moderate service  
grouser with sealed and lubricated  
track (44 section)  
Two-piece master links

## HYDRAULICS

Hydraulics, independent steering and  
work tool pumps  
Hydraulics, electronically controlled,  
load-sensing dozer lift and tilt  
Electronically enabled quick drop valve

## STARTERS, BATTERIES, AND ALTERNATORS

Alternator, 150 amp  
Batteries, heavy duty  
Starting receptacle, auxiliary

## ELECTRICAL

Alarm, back-up  
Converter, 24V to 12V  
Diagnostic connector  
Horn, forward warning

## OPERATOR ENVIRONMENT

Armrest, adjustable  
Advisor operator interface  
– Electronic monitoring system  
– Diagnostic service information  
– Operator preferences  
Cab, ROPS/FOPS, sound suppressed  
Deactivation switch, hydraulic controls  
Access/egress lighting with  
shutdown timer  
Decelerator pedal  
Governor switch, electronic  
Heater and ventilation  
Mirror, rearview  
Radio-ready  
Provision for wire passage in/out of cab  
Interior LED courtesy lights  
Seat, cloth, air-suspension  
Seatbelt, retractable  
Steering control, direction and  
speed control thumb switches  
with recall button  
Wipers, intermittent

## OTHER STANDARD EQUIPMENT

CD ROM Parts Book  
Ecology drains  
Engine enclosures  
Equalizer bar, pinned  
Front pull device  
Guards, bottom hinged  
Grade control ready  
HVAC box – corrosive resistant  
Mounting, lift cylinders  
Oil cooler, hydraulic  
Product Link  
S·O·S<sup>SM</sup> sampling ports  
Steering, electronically controlled  
power differential  
Vandalism protection for fluid  
compartments  
Engine compartment service light



Optional equipment may vary. Consult your Cat dealer for details.

## POWERTRAIN

- Fan, auto reversing
- Oil change system, powertrain
- Precleaner, turbine
- Fast fuel system
- Service package
- Drains, ecology, powertrain
- Engine hour meter
- Fan, auto reversing
- Precleaner, turbine

## UNDERCARRIAGE

- Track pairs (44-section) sealed and lubricated, single grouser shoes

## POSITIVE PIN RETENTION TRACK

- Extreme Service Track –  
610 mm, 660 mm, 710 mm, 965 mm  
(24 in, 26 in, 28 in, 38 in)
- Moderate Service Track –  
660 mm, 710 mm, 965 mm  
(26 in, 28 in, 38 in)
- Super Extreme Service Track –  
610 mm (24 in)
- Extreme Service Track (trapezoidal hole) –  
610 mm, 660 mm, 710 mm, 965 mm  
(24 in, 26 in, 28 in, 38 in)
- Super Extreme Service Track  
(trapezoidal hole) – 660 mm (26 in)
- Moderate Service Track  
(trapezoidal hole) – 710 mm (28 in)

## SYSTEMONE TRACK

- Extreme Service –  
610 mm, 660 mm, 710 mm  
(24 in, 26 in, 28 in)
- Super Extreme Service –  
610 mm, 660 mm, 710 mm  
(24 in, 26 in, 28 in)
- Extreme Service (center hole) –  
610 mm, 660 mm (24 in, 26 in)
- Super Extreme Service (center hole) –  
610 mm, 660 mm (24 in, 26 in)
- Non-Suspended Undercarriage
- Undercarriage, non-suspended, heavy duty
- Undercarriage, SystemOne  
(with center tread idlers)

## ROLLER OPTIONS

- Carrier rollers
- Seals, arctic, idler/roller
- Rollers, arctic/pins
- Cartridge pins, arctic

## HYDRAULICS

- Hydraulics, dual tilt
- Hydraulics, pin puller
- Hydraulics, ripper

## STARTERS, BATTERIES, AND ALTERNATORS

- Batteries, cold weather
- Heater, engine coolant (240V)
- Alternator, 150 amp, ducted

## ELECTRICAL

- Lights, eight, hid hi-mount

## OPERATOR ENVIRONMENT

- Visibility arrangement
- Seat, heated
- Seat, cloth heated/ventilated
- Screen group – sun

## INTEGRATED TECHNOLOGY

- AccuGrade Attachment Ready Option
- AccuGrade
- Computer Aided Earthmoving System  
(CAES)
- Cat Grade Control
- AutoCarry
- Automatic Ripper Control
- Auto Blade Assist

## GUARDS

- Guard, fuel tank
- Guard, fast fuel
- Guard, center tread idler seals
- Guard, transmission
- Guard, fan debris

## OTHER ATTACHMENTS

- Counterweight, rear
- Drawbar, rigid
- Counterweight, additional

## WINCHES

- Winch, variable speed

## BULLDOZER LIFT CYLINDERS (FOR 8SU, 8U, 8A AND 8LGP BLADES)

- Cylinder, lift with lines – RH
- Cylinder, lift with lines – LH

## OTHER BULLDOZER ATTACHMENTS

- Dual tilt arrangement

## GROUND ENGAGING TOOLS/ ATTACHMENTS

- Ripper single-shank
- Ripper multi-shank
- Pin puller
- Tooth, multi-shank ripper
- Tooth, deep ripping





# D8T Track-Type Tractor

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