

# D9T

## Dozer



### Engine

Engine Model

Emissions

Net SAE J1349/ISO 9249

Cat® C18 ACERT™

U.S. EPA Tier 4 Final  
and EU Stage IV

325 kW      436 hp

### Weights

Operating Weight

Shipping Weight

48 361 kg      106,618 lb

36 316 kg      80,062 lb



Helping you  
get more done  
at the lowest  
cost per unit  
of material  
moved.

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**The Cat D9T has a reputation for outstanding productivity, operator comfort, and robust reliability. It is a highly versatile machine flexible enough to be used in heavy construction, quarries, landfills, forestry, and mine sites.**

**Continuing the D9T's legacy, Cat customers can count on the new D9T's superior performance, long life, ease of operation and world-class service from the global Cat dealer network to be the backbone of their operation.**



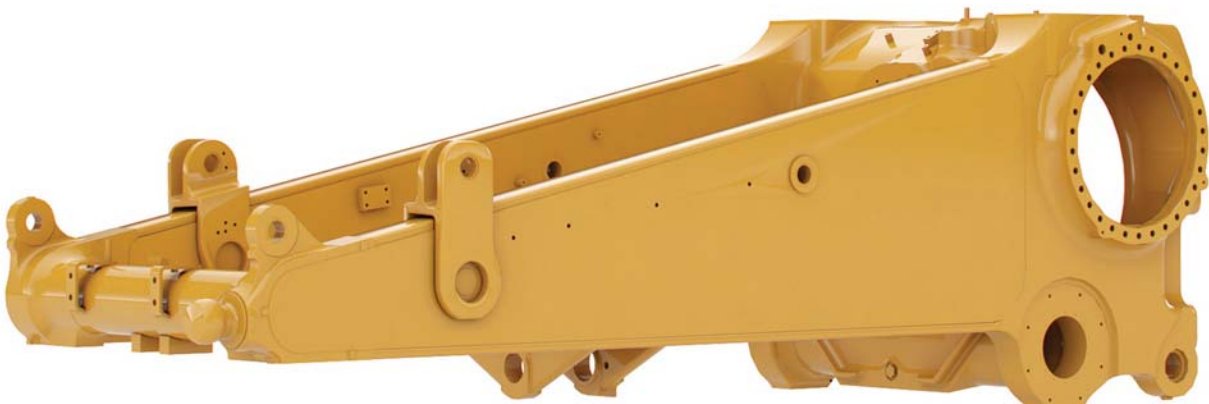
## Mainframe Strength – Built to Last

Helping you get more done with maximum availability, the D9T's durable design makes repair and maintenance easy. Customers can rebuild these tractors several times using the same frame with only minor repairs. With unparalleled support from Cat dealers it is not unusual for a Cat large dozer to log more than 100,000 hours.

- The D9T mainframes are built to absorb high impact shock loads and twisting forces encountered during severe dozing and ripping applications.
- The main case, equalizer bar saddle, and front cross member are heavy duty steel castings incorporated into highly loaded areas of the mainframe to improve stress distribution for improved durability.
- Top and bottom rails are made from continuous rolled sections to eliminate welds and machining, providing superior mainframe durability.
- The main case elevates the final drives well above the ground level work area to protect them from impact loads, abrasion and contaminants.
- The pivot shaft and pinned equalizer bar maintain track roller frame alignment and allow the roller frame to oscillate for smoother ride.

## Tag-Link

Tag-Link blade mounting brings the blade closer to the machine for excellent maneuverability, machine balance and blade penetration. This design also eliminates the need for diagonal bracing by transferring side loads to the mainframe, instead of the dozer push arms.





# Structures

Engineered for maximum production and service life.



## Equalizer Bar End Pins

Proper grease lubrication on working surfaces can significantly extend component life and help lower maintenance cost.

- Remote lubrication is performed from a service point conveniently located on the left hand side of the engine compartment and allows an operator or service technician to lubricate both the left-hand and right-hand equalizer bar end pin bearings and pins from one service point.



# Engine and Emissions Technology

Power and reliability to help you move more.

## C18 with ACERT Technology

The C18 ACERT engine meets U.S. EPA Tier 4 Final and EU Stage IV emission standards in the United States, Canada, and Europe, and delivers power, reliability, high productivity, and exceptional service life.

- The C18 performs at full rated net power (SAE J1349/ISO 9249) of 325 kW (436 hp) at 1,800 rpm with a high torque rise of 36 percent, allowing the D9T to power through tough material.

## Cat NO<sub>x</sub> Reduction System (NRS)

The Cat NO<sub>x</sub> 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 NO<sub>x</sub> emissions.

## Diesel Particulate Filter (DPF)

The Diesel Particulate Filter can provide a particulate reduction of greater than 90%. It filters soot from the exhaust. Soot is then removed through the regeneration process automatically or manually.

## Selective Catalytic Reduction (SCR)

The Selective Catalytic Reduction system can provide a NO<sub>x</sub> reduction of greater than 90%. SCR operation is transparent to the operator during operation. The urea solution, Diesel Exhaust Fluid (DEF), is pumped from the DEF tank and is sprayed into the exhaust stream. The DEF reacts with the SCR catalyst to reduce NO<sub>x</sub>.

## Diesel Exhaust Fluid (DEF)

Diesel Exhaust Fluid is a liquid that is injected into the exhaust system of engines equipped with Selective Catalytic Reduction (SCR) systems. On the D9T the DEF tank is located on the left hand fender enclosure next to the fuel tank.



# Cooling System

Superior cooling keeps you moving in the most demanding work conditions.



The D9T provides durable, efficient cooling for the most demanding conditions encountered on job sites.

## **Aluminum Bar Plate Radiator – 6 Fins Per Inch (fpi)**

The new radiator core design is wider, deeper, and integrates tanks with the cores. This extremely durable design supports higher heat transfer and provides superior corrosion resistance.

## **Air-to-Air Aftercooling**

Air-to-air aftercooling on the D9T cools hot, compressed air coming out of the turbocharger providing cooler and denser air for the air intake system. Bringing more cool air into the engine increases power generation, lowers emissions, and improves fuel efficiency.

## **Air-to-Oil Hydraulic Cooler**

Helping to save on repair and maintenance costs, the air-to-oil hydraulic cooler helps extend component life by reducing hydraulic oil temperatures. The core is built using the same rugged aluminum bar plate design as the engine radiator.

## **Closed Circuit Hydraulically Variable, Demand Fan**

Customers experience increased production and fuel economy as well as reductions in fan noise and engine over cooling with the closed circuit hydraulically variable demand fan. The demand fan changes speed to match ambient conditions. In cooler environments, the fan turns at a slower speed; consuming only the power required to cool the tractor systems, providing more power to the tracks to help you lower your cost per unit of material moved.

## **Attachments**

Auto reversing fan option for heavy debris applications.







# Power Train

Power and control to efficiently move your material.

## High Availability Is Key

Major power train components are modular in design, so being able to quickly remove and reinstall a new pre-tested component gives you the ability to keep the dozer up and running and producing.

## Planetary Powershift Transmission

- Transmission controls permit smooth speed and direction changes with Advanced Productivity Electronic Control System (APECS).
- Oil-to-water cooler for maximum cooling capacity.
- Forced oil flow lubricates and cools clutch packs to provide maximum clutch life.
- Modular transmission and bevel gear slide into rear case for easy servicing, even with ripper installed.

## Power Turn with Differential Steering

With differential steering, large blade loads can be smoothly maneuvered throughout a turn.

- Differential steering has the ability to work in tight areas by providing a tight turning radius.
- Differential steering maintains a high ground speed while turning keeping productivity high.



The D9T power train design optimizes performance and the ease of operation helps customers get more done for the lowest cost per unit.

### **Advanced Productivity Electronic Control System (APECS)**

Is a key contributor to improved speed shift performance and quality in the D9T. The operator will notice enhanced comfort during speed shifting resulting in an increased level of operator productivity.

Most importantly, the improved shift quality provided by APECS is a key enabler to obtaining the full benefits of Enhanced AutoShift (EAS).

### **Enhanced AutoShift (EAS)**

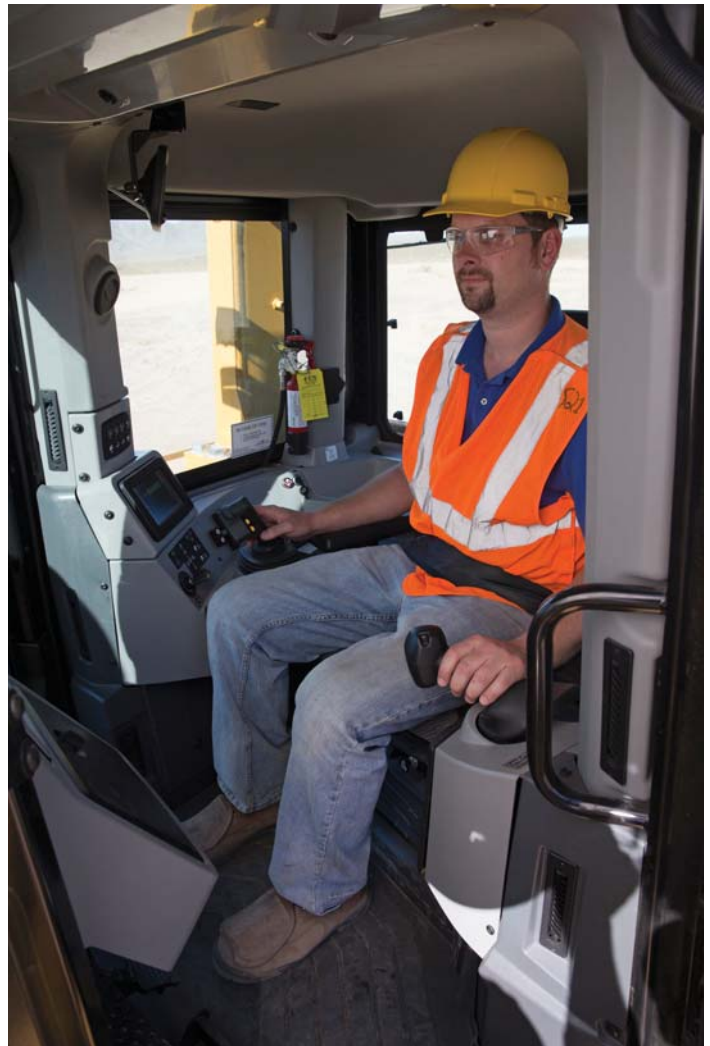
A standard feature for the D9T is EAS. EAS improves fuel efficiency and productivity by automatically selecting the optimal gear and engine speed combination based upon power train load and desired ground speed. This feature functions similar to an automatic transmission.

### **Bi-directional Shift**

This convenience feature helps reduce operator work load during operation. Bi-directional shift allows the operator, by just making a directional change, to automatically select the desired forward and reverse gears or the desired forward and reverse speeds when EAS is activated.

### **Auto Downshift**

This feature adds value by enhancing safety and productivity during the dozing cycle. When not in EAS mode, auto downshift can be used to automatically downshift the transmission when significant load increases are detected, but this feature will not automatically up-shift when load is reduced. Auto downshift provides optimal performance with minimal operator effort. The operator may override these automatic shift features at any time.





# Undercarriage

Designed for optimized machine balance and best performance at your site.



The elevated sprocket and fully suspended undercarriage work together, increasing traction while creating a smoother ride for your operators. The elevated sprocket design transfers implement shock loads to the mainframe, so final drives, axles and steering components are isolated from harsh impacts. These benefits translate into higher production and longer component life.

- Bogie Suspension allows the track to conform to ground condition, providing up to 15% more ground contact, especially in hard, uneven terrain. Higher traction means less slippage, better balance, and a smoother ride.
- Roller frames are tubular to resist bending and twisting, with added reinforcement where operating loads are highest.
- The undercarriage idler guard provides additional wear protection from abrasive material to the moving undercarriage. Includes rubber idler protectors.
- Positive Pin Retention (PPR) sealed and lubricated track is designed for high-impact and high load applications. The Caterpillar® design locks the link to the pin.
- Track shoes are available in a variety of sizes and styles to match working conditions.







## Work Tools

Provide flexibility to match the machine to your job.

### Bulldozers

All blades feature a strong box-section design that resists twisting and cracking. Blades are made of high tensile strength steel that stands up to the most demanding applications.

- High-Capacity Universal Blades – Offers optimal capacity for moving big loads over long distances.
- Semi-Universal Blades – Built for tough applications where penetration is important.
- Cutting Edges and End Bits – Cutting edges are made of DH-2™ steel. End bits are made of DH-3™ steel for maximum service life in tough materials.
- Dual Tilt (optional) – Improves load control and allows the operator to optimize blade pitch angle.
- Cat Work Tools offer a range of special application blades, including coal stockpile blade, landfill blade, cushion dozer blade, reclamation blades and wood chip blade.

### Rippers

Rippers are made to penetrate tough material fast and rip thoroughly for use in a variety of materials.

- Single-Shank Ripper – Operator can adjust the shank depth from the seat using an optional single-shank pin puller.
- Multi-Shank Ripper – Tailor the tractor to the material by using one, two or three shanks.

### Rear Counterweights

Rear counterweights provide proper tractor balance to maximize dozing production. Recommended if tractor is not equipped with any other rear attachment.



# Operator Station

Designed for your comfort, convenience, and productivity.



## Implement and Steering Controls

The D9T utilizes electro-hydraulically controlled differential steering, which helps keep power to both tracks for constant centerline velocity for higher productivity in applications with a lot of turning. Also allows for counterrotation of tracks. This steering system combines the direction and degree of turns, forward-reverse shifting, and gear selection in a single control handle, to enhance operator comfort and help reduce fatigue.

A low-effort electronic dozer control handle gives the operator complete control of all dozer functions with one hand.

The ripper control handle is located to the operator's right, directly behind the dozer joystick. A rigidly mounted hand grip provides firm support for the operator even when ripping in the roughest terrain.



The D9T's cab design provides ergonomic controls, intuitive monitoring systems, and enhanced visibility. All of the new features within the D9T operator station provide an industry leading operator environment that helps contribute to high levels productivity, efficiency, and comfort.

### Comfortable Operation

Standard machine provides 76 dB(A) for North America operator noise levels. Lower sound levels are available if optional sound suppression packages are installed.

Cat Optimized Seat has six way adjustment control for optimal support and comfort. Seat side bolsters restrain side-to-side movement, especially when working on side slopes.

The automatic climate control system automatically adjusts the heating and air conditioning controls to maintain a consistent cab temperature throughout the day.

### Wide Panoramic View

For enhanced safety and production, the operator station offers an exceptional viewing area.

The tapered hood, notched fuel tank, and narrow ripper carriage gives the operator a clear line of sight to front and rear work areas.

### Information Display

The new multi-color/touch screen display located at the front of the right hand console is the operator's gateway to monitoring machine performance and a convenient way of modifying machine parameters to tailor performance to the current task.

The new Information Display screen is larger, faster, and more powerful with increased memory and intuitive menu structure.

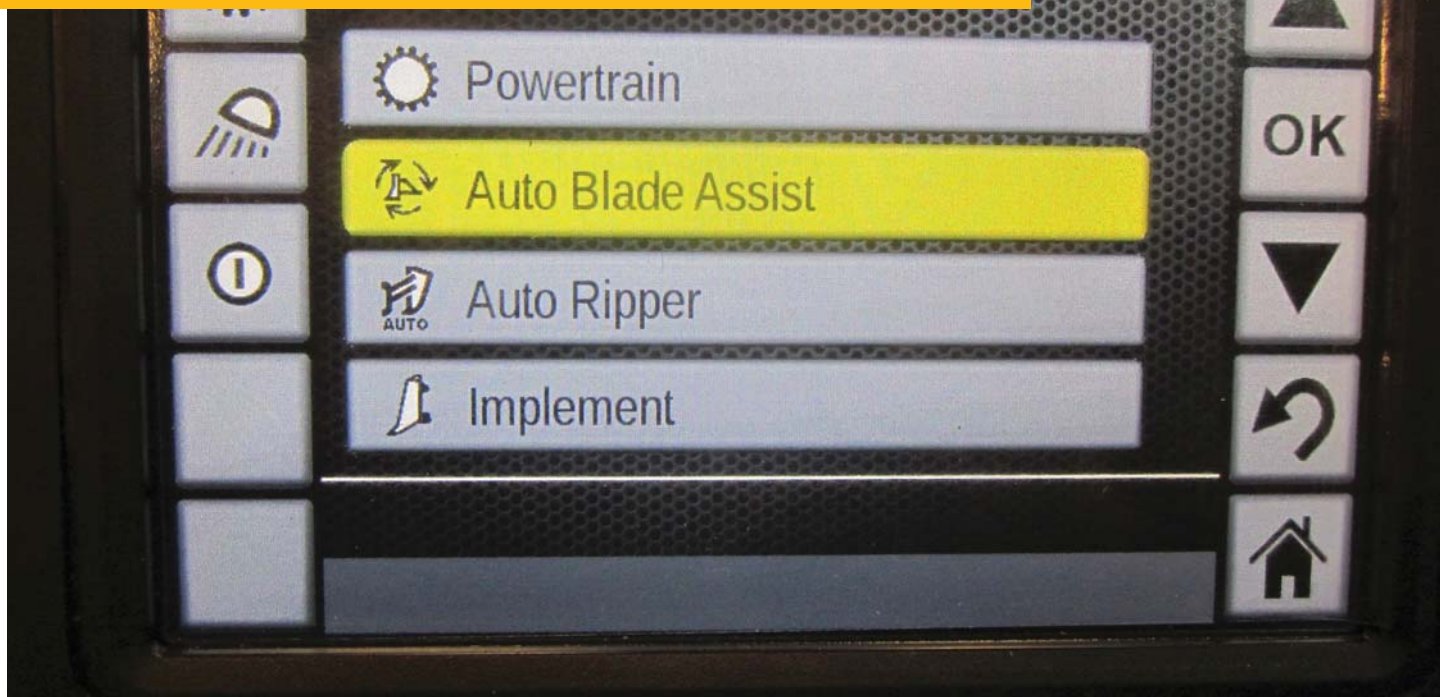
The Work Monitor screen within the Information Display collects machine data and provides real-time feedback on machine performance to optimize productivity.





# Technology Solutions

Increase your productivity with these integrated electronic systems.



The D9T electronic systems have been completely integrated to function as one machine. This integration creates a smart machine and more informed operator maximizing the productivity of both.

- **Automated Blade Assist (ABA) (optional)** – Increases efficiency while reducing operator workload. ABA makes use of preset blade pitch positions for the dig, carry, and spread portions of the cycle. ABA is standard on the D9T when it is equipped with optional dual tilt.
- **Autocarry (optional)** – Provides automatic blade control during the carry segment of the dozing cycle by measuring ground speed and track slip with a robust ROPS mounted Global Navigation Satellite System (GNSS) antenna. Blade position is changed automatically to keep slip at an optimum level for best performance. It is intended to enhance operator productivity in high production earthmoving applications with carry distances over 30.5 m (100 ft).
- **Adaptive Load Select (optional)** – A new feature that further enhances Autocarry functionality. Depending on operating conditions like soil type, moisture levels, track wear, etc., adaptive load select will automatically adjust the blade load during operation.
- **Automatic Ripper Control (optional)** – New feature that helps reduce operator fatigue and decreases wear and tear on the machine. This is done by monitoring the tractor speed with the ROPS mounted GNSS antenna to automatically adjust engine speed and ripper depth to minimize track slip.
- **Cat Grade Control 3D (optional)** – Integrates traditional machine control and guidance with machine hardware and software to not only automatically guide the blade to the desired design contours, but is also integrated with Autocarry to sense and automatically control blade load for improved performance in high production dozing applications.





# Cat MineStar System

Configurable to suit your operation's needs.

Cat MineStar System is an integrated suite of mine operations and mobile equipment management technologies. Customers can configure the optional sets: Fleet, Terrain, Detect, Health and Command – to manage multiple operations and gather real-time feedback to enhance safety, productivity and efficiency.

- **Fleet** (optional) provides comprehensive, real-time machine tracking and assignment, and productivity management. This system presents a comprehensive overview of all customer operations.
- **Terrain for Grading** (optional) is a system that enables an electronic site plan to be sent from the office to the machine in real time, directing the operator where to cut and fill. A geographical map of the design plan and a view of the machine's horizontal and vertical position simplify operation and enhance production.
- **Detect** (optional) provides equipment operators with enhanced awareness of the environment around the machine, resulting in enhanced safety and greater operator confidence.
- **Health** (optional) delivers critical event-based equipment condition and operating data to your entire fleet. It includes comprehensive, proactive health and asset monitoring capabilities, with a wide range of diagnostic, reporting tools, analytics and recommendations.





### **Seat Belt Warning System**

This new feature reminds the operator to engage the seat belt anytime the key is on (LCD icon). If the operator still does not engage the seat belt and places the machine in gear a chirping sound will be added.

### **Operator Not Present Monitoring System**

This new feature locks out the power train and hydraulics to prevent unintentional movement when the operator is mounting and dismounting the machine.

### **Push-arm Grab Handle**

Strategically placed grab handles plus non-slip steps and decking aid operator getting on and off the machine.

### **Spectator Sound Reduction** (optional in N.A./mandatory in EU)

These sound suppression methods help control cab and spectator sound levels:

- Standard engine precleaner and dust ejector
- Hydraulically driven cooling fan
- Sound reducing engine compartment hood and enclosures – (optional)
- Bottom guards, sealed – (optional)

In addition to the Sound Treatment package there is an (optional) Undercarriage Sound Treatment package for additional sound reduction that includes:

- Sound suppressed idlers
- Sound suppressed sprocket segments

With all of these optional sound treatments (including undercarriage sound treatment), the D9T can deliver an average spectator sound power level of 110 dB(A) (ISO 6395), which is a reduction of 4 dB(A) from the non-sound suppressed option, and an average operator sound pressure level of 74 dB(A) (ISO 6396), which is a reduction of 2 dB(A) from the non-sound suppressed option.

### **Lighting Packages**

The D9T offers several lighting package options.

- Halogen
- High Intensity Discharge (HID)
- Cat Light Emitting Diode (LED) Work Lights





# Safety

Focused on keeping everyone safe.



## Access/Egress Lighting

Access lighting is fixed at five (5) minutes and is activated at the ground level service center on the left hand fender. The time limit of the lights is programmable in the Information Display. Egress lighting is configurable. If the forward ROPS lights are on when the key is turned off, the forward ROPS lights will automatically remain on to illuminate the path for the operator exiting the machine. Egress lighting can be deactivated anytime before the timer expires, from the ground level service center.

## Visibility Package

The D9T offers multiple visibility packages that enhance the operator's visibility of his or her surroundings and provides a broader view of the work area.

- Mirror in cab
- Mirrors on bulldozer lift cylinders
- Single rear facing camera with 7" display





# Serviceability

Reduce service time to increase your uptime.

You will benefit from high uptime and lower upkeep costs with the reliable D9T. The modular design supports efficient servicing and quick turnaround on repairs. Through the ability to swap out a component with a pretested rebuilt or remanufactured unit, the D9T returns to the job faster.

## Serviceability

Minimizes maintenance and repair downtime. Sight gauges, filter locations, improved access to oil and coolant sampling ports, and an engine compartment mounted work lamp, make daily and periodic service faster and easier.

## Ground Level Service Center

Is mounted on the left hand fender to provide easy access to:

- Access/Egress lighting switch
- Electrical disconnect switch with built in lockout/tag-out capability
- Engine shutdown switch
- Hour meter
- Jump start receptacle

## Ok-to-Start

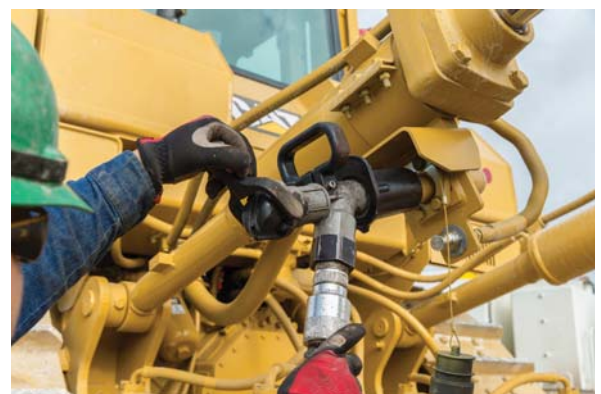
The new Ok-to-Start strategy provides electronic fluid level verification at startup on the engine coolant, engine oil and power train oil systems. All information is available via the Information Display within the cab.

## Fast Fuel System

The fast fuel system at ground level, with positive fuel shut-off to prevent fuel spillage, can reduce fuel waste and decrease downtime.

## Ground Level DEF Fill

Industry first remote DEF fill allows the DEF tank to be filled from ground level. This removes the burden of climbing onto and off of the machine to fill the DEF tank and allows the DEF tank to be filled at the same time the fuel tank is being filled. The dry break connection and automatic fill shut off reduce contamination entry to the DEF system and spillage.



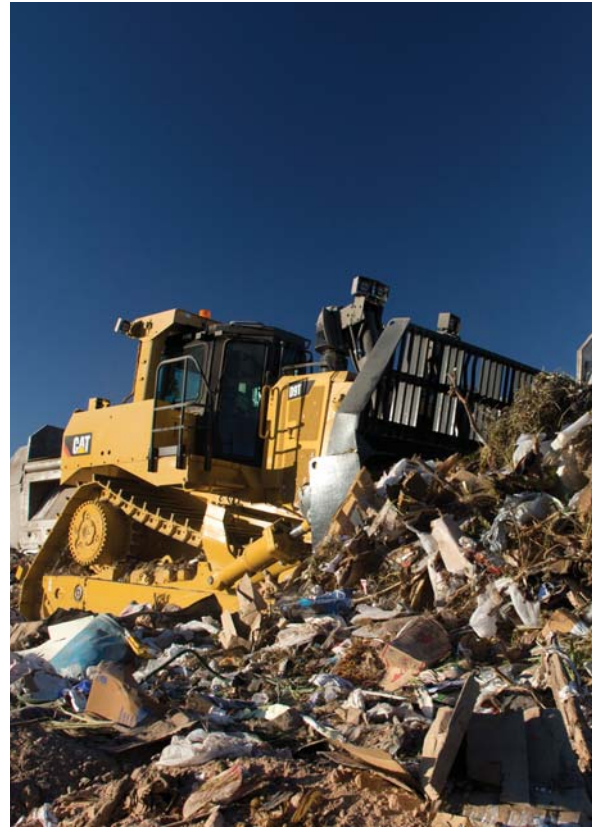


# Sustainability

Thinking about your legacy for future generations.

Sustainable Development for Caterpillar means leveraging technology and innovation to increase efficiency and productivity with less impact on the environment. This helps customers by enabling their businesses to become more productive by providing products, services and solutions that use resources more efficiently. The new D9T offers a number of sustainable benefits:

- Major components of Cat Track-Type Tractors are designed to be rebuilt. The Cat Certified Rebuild program conserves natural resources by delivering a cost effective second and even third life for our machines.
- The D9T is Grade Control Ready for easy installation of machine control and guidance systems like AccuGrade™ and Cat Grade Control 3D. These systems improve operator productivity, as well as saving fuel and wear and tear on the machine. The need for grade checking crews on the ground is eliminated which increases site safety.



## Customer Support

Your Cat dealer knows how to keep your mining machines moving.



### Legendary Cat Dealer Support

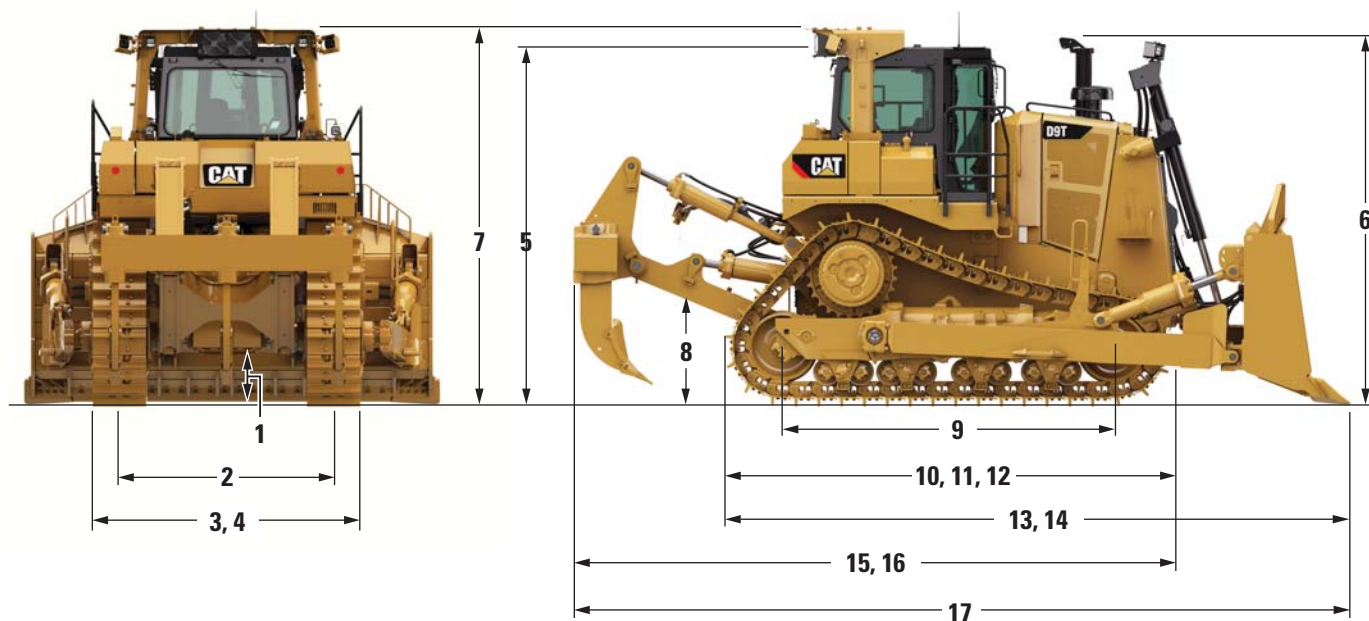
From helping you choose the right machine to knowledgeable ongoing support, Cat dealers provide you with unmatched sales and service.

- Preventive maintenance programs and guaranteed maintenance contracts.
- Best-in-class parts availability.
- Operator training to help boost your profits.
- Genuine Cat Remanufactured parts.

# D9T Dozer Specifications

## Dimensions

All dimensions are approximate. Dimensions measured from grouser tip of standard shoe on hard surface.



	D9T	
	mm	in
1 Ground Clearance	596	23.5
2 Track Gauge	2250	88.6
3 Width without Trunnions (Standard Shoe)	2870	113.0
4 Width over Trunnions	3310	130.3
5 Height (FOPS Cab)	3820	150.4
6 Height (Top of Stack)	3876	152.6
7 Height (ROPS/Canopy)	4000	157.5
8 Drawbar Height (Center of Clevis)	763	30.0
9 Length of Track on Ground	3470	136.6
10 Overall Length Basic Tractor	4910	193.3
11 Length Basic Tractor with Drawbar	5242	206.4
12 Length Basic Tractor with Winch	5545	218.3
13 Length with SU-Blade	6601	259.9
14 Length with U-Blade	6967	274.3
15 Length with Single-Shank Ripper	6529	257.0
16 Length with Multi-Shank Ripper	6538	257.4
17 Overall Length (SU-Blade/SS Ripper)	8219	323.6



## Engine – U.S. EPA Tier 4 Final/EU Stage IV

Engine Model	Cat C18 ACERT	
Bore	145 mm	5.7 in
Stroke	183 mm	7.2 in
Displacement	18.1 L	1,104 in <sup>3</sup>
Engine Power		
Gross SAE J1995*	350 kW	469 hp
ISO 14396	343 kW	460 hp
Net Power SAE J1349/ISO 9249	325 kW	436 hp

\*Excludes all fan losses.

- Engine ratings apply at 1,800 rpm.
- Net power advertised is the power available at the flywheel when the engine is equipped with air cleaner, muffler, alternator, fan, and engine emissions controls as required.
- Ultra low sulfur diesel (ULSD) and low ash oil are required.
  - Diesel Exhaust Fluid (DEF) that meets ISO-22241 specifications is required.

## Weights

Operating Weight	48 361 kg	106,618 lb
Shipping Weight	36 316 kg	80,062 lb

- D9T Operating Weight includes hydraulic controls, blade tilt cylinder, coolant, lubricants, full fuel tank, ROPS, FOPS cab, SU-Blade, Single-Shank Ripper, 610 mm (24 in) ES shoes, and operator.
- D9T Shipping Weight includes base machine chassis with cab, pivot shaft, roller frames, track and ROPS.

## Transmission

1 Forward	3.9 km/h	2.4 mph
2 Forward	6.8 km/h	4.2 mph
3 Forward	11.7 km/h	7.3 mph
1 Reverse	4.7 km/h	2.9 mph
2 Reverse	8.4 km/h	5.2 mph
3 Reverse	14.3 km/h	8.9 mph
1 Forward – Drawbar Pull (1000)	716.5 N	161 lbf
2 Forward – Drawbar Pull (1000)	400.5 N	90 lbf
3 Forward – Drawbar Pull (1000)	222.5 N	50 lbf

## Hydraulic Controls

Pump Type	Piston-type pump geared from flywheel	
Pump Output (Steering)	387 L/min	102 gal/min
Pump Output (Implement)	226 L/min	60 gal/min
Tilt Cylinder Rod End Flow	140 L/min	37 gal/min
Tilt Cylinder Head End Flow	188 L/min	50 gal/min
Lift Cylinder Relief Valve Setting	26 200 kPa	3,800 psi
Tilt Cylinder Relief Valve Setting	19 300 kPa	2,800 psi
Ripper (Lift) Relief Valve Setting	26 200 kPa	3,800 psi
Ripper (Pitch) Relief Valve Setting	26 200 kPa	3,800 psi
Steering System Pressure	40 500 kPa	5,875 psi
Tank Capacity	89 L	23.5 gal

- Steering Pump output measured at 1,800 rpm and 30 000 kPa (4,351 psi).
- Implement Pump output measured at 1,800 rpm and 20 000 kPa (2,900 psi).
- Electro-hydraulic pilot valve assists operations of ripper and dozer controls. Standard hydraulic systems includes four valves.
- Complete system consists of pump, tank with filter, oil cooler, valves, lines, linkage and control levers.

## Undercarriage

Shoe Type	Extreme Service	
Width of Shoe	610 mm	24 in
Shoes/Side	43	
Grouser Height	84 mm	3.3 in
Pitch	240 mm	9.4 in
Ground Clearance	596 mm	23.5 in
Track Gauge	2250 mm	88.6 in
Length of Track on Ground	3470 mm	136.6 in
Ground Contact Area	4.24 m <sup>2</sup>	6569 in <sup>2</sup>
Track Rollers/Side	8	
Number of Carrier Rollers	1 per side (optional)	

- Positive Pin Retention Track.

# D9T Dozer Specifications

## Service Refill Capacities

Fuel Tank	821 L	217 gal
DEF Tank	36 L	9.5 gal
Cooling System	98 L	25.9 gal
Engine Crankcase*	37 L	9.7 gal
Power Train	164 L	43.3 gal
Final Drives (each)	15 L	3.9 gal
Roller Frames (each)	45 L	11.9 gal
Pivot Shaft Compartment	30 L	7.9 gal
Hydraulic Tank Oil (only)	89 L	23.5 gal

\*With oil filters.

## Winches

Winch Model	PA 140VS	
Weight*	1790 kg	3,947 lb
Oil Capacity	15 L	4 gal
Increased Tractor Length	557 mm	21.9 in
Overall Winch	1227 mm	48.3 in
Drum Width	326 mm	12.9 in
Flange Diameter	610 mm	24 in

\*Weight includes pump and operator controls.

With counterweight: 3705 kg (8,169 lb).

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

## Standards

### ROPS/FOPS

- ROPS (Rollover Protective Structure) offered by Caterpillar for the machine meets ROPS criteria ISO 3471:2008.
- FOPS (Falling Object Protective Structure) meets ISO 3449:2005 Level II.

### Sound

#### North America

- The declared dynamic operator sound pressure level is 76 dB(A) when “ISO 6396:2008” is used to measure the value for an enclosed cab. The measurement was conducted at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds. The cab was properly installed and maintained. The measurement was conducted with the cab doors and the cab windows closed. The cab was properly installed and maintained.
- The declared exterior sound power level is 114 dB(A) when the value is measured according to the dynamic test procedures and the conditions that are specified in “ISO 6395:2008.” The measurement was conducted at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds.

#### Europe

- The declared dynamic operator sound pressure level is 74 dB(A) when “ISO 6396:2008” is used to measure the value for an enclosed cab. The measurement was conducted at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds. The cab was properly installed and maintained. The measurement was conducted with the cab doors and the cab windows closed. The cab was properly installed and maintained.
- The declared exterior sound power level is 113 dB(A) when the value is measured according to the dynamic test procedures and the conditions that are specified in “ISO 6395:2008.” The measurement was conducted at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds.



## D9T Bulldozer

Tag link dozer coupling brings blade closer for better balance and control.

Blade		9SU	9U
Blade capacity (SAE J1265)	m <sup>3</sup>	13.5	16.4
	yd <sup>3</sup>	17.7	21.4
Width with blade (over end bits)	mm	4350	4680
	in	171.3	184.3
Blade height	mm	1934	1934
	in	76.1	76.1
Maximum digging depth	mm	606	606
	in	23.9	23.9
Ground clearance at full lift	mm	1422	1422
	in	56	56
Maximum tilt	mm	940	1014
	in	37	39.9
Weight* (without hydraulic controls)	kg	6863	7388
	lb	15,130	16,288
Total operating weight** (with blade and single-shank ripper)	kg	48 361	48 956
	lb	106,618	107,929

\* Includes blade installation arrangement, blade tilt cylinder, and blade lift cylinders.

\*\* Total operating weight includes hydraulic controls, blade tilt cylinder, coolant, lubricants, full fuel tank, ROPS, FOPS cab, blade, single-shank ripper, 610 mm (24 in) ES shoes, and operator.

## Ripper

Redesigned ripper frame for improved visibility to ripper tip. Hydraulic tip adjustment cylinders vary shank angle to aid penetration and help lift and shatter rock.

Adjustable Parallelogram			
		Single-shank	Multi-shank
Added length	mm	1570	1330
	in	61.8	52.4
Maximum penetration force (shank vertical)	kN	153.8	147.9
	lbf	34,576	33,249
Maximum penetration (standard tip)	mm	1231	798
	in	48.5	31.4
Pryout force (multi-shank ripper with one tooth)	kN	320.5	332
	lbf	72,051	74,637
Maximum clearance raised (under tip, pinned in bottom hole)	mm	882	885
	in	34.7	34.8
Number of pockets		1	3
Weight (without hydraulic controls)	kg	4854	5550
	lb	10,701	12,236
with 9SU blade and ripper			
Total operating weight*	kg	48 361	49 061
	lb	106,618	108,160

\* Total operating weight includes hydraulic controls, blade tilt cylinder, coolant, lubricants, full fuel tank, ROPS, FOPS cab, SU-blade, ripper, 610 mm (24 in) ES shoes, and operator.

## Standard Equipment

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

### ELECTRICAL

- Alternator, 150-amp
- Back-up alarm
- Batteries (two), 12-volt, 200 amp-hour
- Converter, 12-volt, 10 amp and 20 amp
- Diagnostic connector
- Horn, forward warning
- Light, engine compartment
- Lighting system, six halogen
- Starting receptacle

### OPERATOR ENVIRONMENT

- Armrest, adjustable
- Cab, FOPS
- Cab heater
- Deactivation switch, hydraulic controls
- Decelerator pedal
- Governor switch, electronic
- Hydraulic system, electronically controlled
- Information display – multi-color
- Mirror, rearview
- Radio ready, entertainment
- ROPS mounted air conditioner
- ROPS structure
- Seat
  - Cloth, air suspension
  - Vinyl, mechanical suspension
- Seat belt, retractable 76 mm (3 in)
- Steering and transmission control
- Wipers, intermittent low and high speeds

### POWER TRAIN

- Aftercooler, air-to-air
- Air filter, with precleaner
- Aluminum bar plate radiator, 6 fpi
- C18 with ACERT Technology, U.S. EPA Tier 4 Final/EU Stage IV
  - 24-volt electric start
  - Clean Emissions Module
- Coolant, extended life
- Directional shift management
  - Advanced Productivity Electronic Control System (APECS)
  - Enhanced AutoShift (EAS)
- Engine idle shutdown timer
- Ether starting aid, automatic
- Fast fuel system
- Fuel priming pump, key-on, electric
- Ground level DEF fill
- High speed oil change system, engine and power train
- Parking brake, electronic
- Separator, water/fuel
- Three planet, double-reduction planetary final drives
- Torque converter
- Transmission, electronic control (ECPC), (3F/3R speeds)

### SAFETY AND SECURITY

- Fender guard rails
- Heavy duty steps and handles
- Operator Not Present Monitor System
- Seat belt warning switch

### UNDERCARRIAGE

- Equalizer bar end pin grease fittings, remote
- Positive Pin Retention track (PPR)
- Rollers and idlers, lifetime lubricated
- Sprocket rim segments, replaceable
- Suspension-type undercarriage, eight-roller tubular track roller frame
- Three bolt idler caps
- Track adjusters, hydraulic
- Track guides
- Two-piece master link

### OTHER STANDARD EQUIPMENT

- CD ROM parts book
- Ecology drains
- Fluid sampling ports
- Grade control ready
- Ground level service center
- Product Link™
- Vandalism protection (eight caplocks)
- VIMS™ 3G



## Optional Equipment

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

### BULLDOZER ATTACHMENTS

- 9SU Push plate
- 9SU Abrasion resistant blade
- 9SU Landfill
- 9U Rock guard
- 9U Abrasion resistant blade
- 9U Landfill

### GUARDS

- Bottom guards, front counterweight
- Bottom guards, partial
- Bottom guards, sealed
- Dozer lines
- Guard, fan debris
- Guard, fuel tank
- Guard, fuel tank with transmission guard
- Guard, undercarriage idlers
- Guard, striker bars – front
- Final drive seals
- Power train, rear lower
- Power train, rear upper

### OPERATOR ENVIRONMENT

- Cab glass:
  - 276 kPa (40 psi) with cab air precleaner
  - Dual pane impact resistant
- Operators arrangements:
  - 5th percentile arrangement
  - Quick opening floor plates
- Powered precleaner
- Seat, cloth and air suspension
  - Heated and ventilated
- Visibility package
  - Mirrors
  - Single camera
- Window shades

### POWER TRAIN

- Coolant, arctic
- Engine precleaner, turbine
- Engine prelube
- Exhaust, wrapped
  - Insolated Clean Emissions Module
- Final drives:
  - Cold weather
  - Guarded
  - Waste handling
- Lubrication, arctic
- Reversible cooling fan

### REAR ATTACHMENTS

- Counterweights
- Drawbar, rear
- Multi-shank ripper
  - Standard
- Single-shank ripper
  - Standard
  - Standard with pin puller
- Striker bar, rear
- Winch\*

### SAFETY AND SECURITY

- Lights
  - Halogen, 12
  - HID (includes four halogen and six HID)
  - LED, 12
- Rear window screen
- Warning strobe

### SPECIAL ARRANGEMENTS

- High debris
- Sound
- Stockpile
- Waste handling

### TECHNOLOGY

- AccuGrade installation
- Autocarry
- Automatic ripper control
- Cat grade control 3D
- VIMS 3G, No Product Link

### UNDERCARRIAGE

- Carrier roller
  - Cold weather
- Factory Track Shoe Options
  - 560 mm (22 in), Extreme Service
  - 610 mm (24 in), Extreme Service
  - 610 mm (24 in), Extreme Service Trapezoidal Hole
  - 610 mm (24 in), Super Extreme Service
  - 610 mm (24 in), Super Extreme Service Trapezoidal Hole
  - 685 mm (27 in), Extreme Service
  - 685 mm (27 in), Extreme Service Clipped Grousers
  - 685 mm (27 in), Extreme Service Trapezoidal Hole
  - 685 mm (27 in), Super Extreme Service
  - 760 mm (30 in), Moderate Service
  - 760 mm (30 in), Moderate Service Trapezoidal Hole
- Undercarriage arrangements, PPR
  - Abrasion
  - Cold weather
  - Sound reduced
  - Waste handling

### OTHER ATTACHMENTS

- Battery, cold weather (includes two sets of batteries and two starter motors)
- Heater, engine coolant
- Heater, fuel
- Hydraulics, dual tilt (with Auto Blade Assist)
- Paint, blade

\*A rear attachment and/or counterweight is recommended for improved performance and balance.







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