



# Cat<sup>®</sup> D10

## Dozer

***The Cat<sup>®</sup> D10 series dozers have a well-earned reputation for delivering the right balance of power, comfort, durability and versatility. An industry leader for over 40 years, the D10 continues to set the standards for what a mining dozer should be. And the legend lives on with the introduction of the new Cat D10 Dozer. Improvements to the drive train, hydraulic and cooling systems reduce fuel consumption by up to 4% while increasing productivity by up to 3%. Greater component durability, service improvements and technology integration deliver a reduction in overall owning costs.***

### **Innovation on Track**

- Optimized drive train features an updated Cat C27 engine paired with a new stator clutch torque divider.
- Comes standard with high-horsepower reverse, which offers up to 20% more power in reverse gears. The engine outputs 603 net hp (450 kW) in the forward direction and 722 net hp (538 kW) in the reverse direction.
- The proven reliable torque divider splits the power transfer through the drive train with 75% of the power flowing thru the torque converter and 25% going direct to the transmission, increasing drive train efficiency.
- Different aftertreatment solutions are available to meet the needs of the global market, including configurations to meet U.S. EPA Tier 4 Final/EU Stage V regulations as well as emissions equivalent to U.S. EPA Tier 2.
- Load-sensing hydraulics provide oil flow only on command, reducing parasitic draw to increase available power to the ground.
- Drive train improvements paired with the single plain cooling system lower operating cost and increase operating efficiencies by up to 6%.

### **Technology Makes It Better... Inside and Out**

- Boasting an updated electronic architecture, the new D10 features a new, best-in-class operator cabin, infused with proven technologies.
- Operator efficiency and comfort are improved with a new 254 mm (10 in) touchscreen display offering intuitive machine operation, upgraded seat offerings, available 360-degree vision and improved visibility.
- Future-ready, the electronic infrastructure provides seamless integration of proven Cat technologies like MineStar<sup>™</sup> Command for dozing, which removes the operator from the cab through line-of-site or non-line-of-site remote control.
- Technology updates to optional automated features such as Autocarry and AutoRip improve efficiency and ease of use, reducing operator fatigue, increasing productivity and minimizing machine wear by limiting track slippage.
- Completely new Cat Autolube solution with full integration into the machine providing simple system control at the touch of a finger from the operator seat.

### **Greater Performance + Simplified Maintenance = Lower Cost**

- Industry-leading field life of box-frame design provides superior strength and stiffness over competitive designs. The frame has been optimized to improve durability even further.
- New Remote Flash conveniently ensures the machine operates with the most current version of on-board software, so the dozer consistently delivers high performance, maximum efficiency and minimum downtime.
- The service enables remote updates to the software at a time convenient to the mining operation, without interrupting the production cycle and reducing service time on the machine.
- With its modular design and elevated sprocket drive, the D10 series is renowned for industry-leading serviceability and low maintenance costs.
- Extended oil change intervals enabled by a larger engine oil sump.
- New, easy-access radiator door and single-plane cooling system reduce overall heat load and promote easier cleaning.
- New push arm bearing inserts improve reliability and reduce overall rebuild time. Labor has been reduced to a simple bearing replacement.
- Secondary power train filter to improve oil cleanliness and extend component life.

### **Safety Improvements You Can See**

- Multiple visibility offerings provide customers with different solutions to achieve their desired line-of-site to the front, rear and around the dozer.
- Available four-camera system delivers a 360-degree view around the D10 and includes a ripper camera.
- Optional hydraulic ladder with lockout protection and engine off capability.
- Improvements to cab access from a ladder with the new forward swinging door.
- Caterpillar has partnered with Ansul to provide a full factory fire suppression offering.



# Cat® D10 Dozer

## Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat® dealer for details.

	Standard	Optional		Standard	Optional
<b>OPERATOR ENVIRONMENT</b>			<b>UNDERCARRIAGE</b>		
Rollover Protection System (ROPS)/ Falling Object Protection (FOPS), Sound-Suppressed Cab	✓		Suspension-Type Undercarriage	✓	
High-Definition Primary Touchscreen Display	✓		Lifetime-Lubricated Rollers and Idlers	✓	
MineStar™ Terrain Display		✓	Track Shoe (ES): 610 mm (24 in) Width	✓	
Visibility – Rearview Mirror	✓		Track Shoes : 610/710/786 mm (24/28/31 in) Width (various configurations)		✓
Visibility – Dual Camera		✓	Track Shoe – Anti-Packing Round Hole		✓
Visibility – Four Cameras, 360-Degree View		✓	Track Links – Heavy Duty XL – Duralink		✓
Air Conditioner and Heater with Automatic Climate Control	✓		Abrasion Rollers and Idlers		✓
Seat – Cloth with Air Suspension	✓		Cold Weather Rollers and Idlers		✓
Seat – Heated, Cooled, Adjustable Lumbar and Bolsters		✓	Sound-Suppression Undercarriage		✓
Cab Glass – Single-Pane Tinted Safety	✓		Carrier Roller		✓
Cab Glass – Dual-Pane Laminated Impact Safety		✓	<b>HYDRAULICS</b>		
Cab Glass – High-Pressure Safety (40 psi/275 kPa)		✓	Electronically Controlled, Load-Sensing Dozer Lift and Tilt	✓	
Cab Access – Blade Push Arm Steps and Grab Handle	✓		Electronically Controlled, Load-Sensing Ripper Lift and Pitch	✓	
Cab Access – Powered Ladder		✓	Dozer Blade – Dual Tilt with Zero Pitch Guarding	✓	
<b>CAT TECHNOLOGY PRODUCTS</b>			Electronically Enabled Blade – Quick Drop	✓	
VIMS	✓		Ripper Pin Puller		✓
Cat Product Link™ Elite (cellular)	✓		<b>ELECTRICAL</b>		
Cat Product Link Elite Dual Mode (cellular + satellite)		✓	24V Electric Start	✓	
Automated Blade Assist (ABA)	✓		Batteries – 2×, 200-Amp Hour, 12V	✓	
Autocarry		✓	Battery Isolation	✓	
Auto Ripper Control		✓	Battery Isolation – Dual Pole		✓
Cat Grade with 3D		✓	Lights – LED – 13 Positions	✓	
Cat Terrain Ready		✓	Lights – LED – Premium Package		✓
Cat Terrain with 3D Blade Control		✓			
Cat Command for Dozing Ready		✓			
<b>CAT POWER TRAIN</b>					
Cat C27 Engine – U.S. EPA Tier 4 Final or Tier 2 Equivalent	✓				
High-Performance Single-Plane Cooling Module	✓				
Stator Clutch Torque Divider – Electronic Control	✓				
Powershift Transmission – Three-Speed Electronic Shift	✓				
Hydraulic Cooling Fan – Automatic Reversing		✓			

(continued on next page)

**Standard and Optional Equipment (continued)**

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

	Standard	Optional		Standard	Optional
<b>SERVICE AND MAINTENANCE</b>			<b>BLADES</b>		
Ecology Fluid Drains – All Compartments	✓		Semi-Universal (18.5 m <sup>3</sup> /24.2 yd <sup>3</sup> )		✓
Hinged Bottom Guards	✓		Universal (22.0 m <sup>3</sup> /28.7 yd <sup>3</sup> )		✓
Radiator Guard – Swing-Out Access Doors	✓		<b>WORKTOOLS BLADES</b>		
Replaceable Bearings – Push Arm and Ripper	✓		Reclamation Universal (24.5 m <sup>3</sup> /32.0 yd <sup>3</sup> )		✓
Sound Reduction Sealed Bottom Guards		✓	Coal Universal (46.1 m <sup>3</sup> /60.3 yd <sup>3</sup> )		✓
Ground-Level – Fluid Fill and Drain Engine, Power Train, Hydraulic and Coolant		✓	Coal Universal (52.0 m <sup>3</sup> /68.0 yd <sup>3</sup> )		✓
Ground-Level Fast Fuel Fill	✓		Woodchip Universal (72.6 m <sup>3</sup> /95 yd <sup>3</sup> )		✓
Ground-Level Electrical Service Station	✓		Cushion Dozer Blade		✓
Scheduled Oil Sampling (S-O-S <sup>SM</sup> ) Fluid Sampling Ports	✓		Black Blade Paint		✓
Diagnostic Connector	✓		Abrasion Liners and Guards		✓
Ripper Lubrication – Autolube with Ground-Level Fill		✓	<b>OTHER</b>		
Ripper Lubrication – Grouped – Ground-Level Fill		✓	Fire Suppression Ready		✓
<b>REAR ATTACHMENTS</b>			Fire Suppression Installed		✓
Ripper – Single Shank with Pin Puller		✓			
Ripper – Single Shank with Pin Puller and Retrieval Hitch		✓			
Ripper – Multi Shank (three shank)		✓			
Ripper – Multi Shank Deep with Pin Puller		✓			
Counterweight – Rear, 3 Weighted Plates		✓			
Counterweight – Rear, 4 Weighted Plates		✓			
No Rear Attachment for customers who already have a rear attachment		✓			

# Cat® D10 Dozer

## Technical Specifications

### Engine – U.S. EPA Tier 2 Equivalent

Engine Model		Cat C27	
Bore	137 mm	5.4 in	
Stroke	152 mm	6.0 in	
Displacement	27.0 L	1,648 in <sup>3</sup>	
Engine Power			
Gross SAE J1995*			
Forward	471 kW	631 hp	
Reverse	571 kW	766 hp	
ISO 14396*			
Forward	464 kW	622 hp	
Reverse	564 kW	756 hp	
Net SAE J1349/ISO 9249**			
Forward	450 kW	603 hp	
Reverse	538 kW	722 hp	
Emissions	U.S. EPA Tier 2 Equivalent		

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

Engine Model		Cat C27	
Bore	137 mm	5.4 in	
Stroke	152 mm	6.0 in	
Displacement	27.0 L	1,648 in <sup>3</sup>	
Engine Power			
Gross SAE J1995*			
Forward	471 kW	631 hp	
Reverse	571 kW	766 hp	
ISO 14396*			
Forward	462 kW	620 hp	
Reverse	563 kW	754 hp	
Net SAE J1349/ISO 9249**			
Forward	449 kW	602 hp	
Reverse	538 kW	722 hp	
Emissions	U.S. EPA Tier 4 Final/EU Stage V		

\*Excludes all fan losses.

- All Engine ratings apply at 1,800 rpm.
- Tier 2 equivalent rating (in FWD gears) begins altitude de-rate at 4480 m (14,700 ft).
- Tier 4/EU Stage 5 equivalent rating (in FWD gears) begins altitude de-rate at 4420 m (14,500 ft).

\*\*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 at 25° C ambient temperature.

### Weights

Operating Weight	70 256 kg	154,888 lb
Shipping Weight	50 684 kg	111,739 lb

- D10 Operating Weight includes coolant, lubricants, full fuel tank, ROPS, FOPS cab, SU ABR bulldozer, dual tilt, single-shank ripper with pin-puller, fast fuel, 610 mm (24 in) ES shoes, and operator.
- D10 Shipping Weight includes coolant, lubricants, 10% fuel, FOPS cab, fast fuel, and 610 mm (24 in) ES shoes.

### Fluid Capacities

Fuel Tank – Total Volume	1269 L	335.2 gal
Fuel Tank – Usable Volume	1224 L	323.3 gal
Cooling System Refill – Tier 4 Final Engine	175 L	46.2 gal
Engine Crankcase Sump	103 L	27.2 gal
Power Train – Total Volume	308 L	81.4 gal
Power Train – Refill Volume	283 L	74.8 gal
Final Drives (each)	46 L	12.2 gal
Track Roller Frames (each)	64 L	16.9 gal
Pivot Shaft Oil	36 L	9.5 gal
Hydraulic System Tank Only	122 L	32.2 gal

### Transmission

1.0 Forward	4 km/h	2.5 mph
1.5 Forward	5.4 km/h	3.4 mph
2.0 Forward	7.2 km/h	4.5 mph
2.5 Forward	9.6 km/h	6.0 mph
3.0 Forward	12.5 km/h	7.8 mph
1.0 Reverse	5.2 km/h	3.2 mph
1.5 Reverse	6.7 km/h	4.2 mph
2.0 Reverse	9 km/h	5.6 mph
2.5 Reverse	12.1 km/h	7.5 mph
3.0 Reverse	15.7 km/h	9.8 mph
Type	Planetary powershift	
Transmission Clutch Diameter	431.8 mm	17"

### Dimensions

Ground Clearance*	725 mm	28.5 in
Track Gauge	2550 mm	100.4 in
Width without Trunnions (610 mm/24 in ES)	3311 mm	130.4 in
Width over Trunnions	3759 mm	148.0 in
Height (FOPS Cab)*	4134 mm	162.8 in
Height (Top of Stack)*	4356 mm	171.5 in
Height (ROPS/Canopy)*	4406 mm	173.5 in
Length of Track on Ground	3880 mm	152.8 in
Overall Length, Basic Dozer	5324 mm	209.6 in
Overall Length, SU-Blade and SS Ripper	9158 mm	360.6 in

\*Includes grouser height for total dimensions on hard surfaces.

### Blade

	Semi-Universal	Universal
Blade Capacity (SAE J1265)	18.5 m <sup>3</sup> (24.2 yd <sup>3</sup> )	22 m <sup>3</sup> (28.7 yd <sup>3</sup> )
Blade Width (over end bits)	4940 mm (194.5 in)	5260 mm (207.1 in)



For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com)

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