

D10

DOZER



**Operating Weight
Engine Power**

70 256 kg / 154,888 lb

FORWARD: 450 kW / 603 hp

REVERSE: 538 kW / 722 hp

The Cat® C27 Engine is available U.S. EPA Tier 4 / EU Stage V emission standards with an aftertreatment system that is designed to be transparent to the operator. It is also available in a U.S. EPA Tier 2 equivalent emissions package.



THE NEW CAT® D10

INNOVATION ON TRACK

The Cat® D10 Dozer is innovative by design — developed by a team of experts who follow a design approach that incorporates feedback from the field with industry-leading technologies to deliver a dozer that continues to advance with every model. The new D10 is no exception. It's more efficient, so it burns less fuel. It's more serviceable, so you'll experience less downtime. It's more durable, so you'll spend less over its lifetime. And it's more productive — so you'll spend less time putting more profitability to your bottom line.



GO THE DISTANCE WITH CAT DOZERS

Caterpillar has the industry's broadest lineup of dozers working in dozens of applications, climates and environments. They're made to go the distance, with a proven design and durable construction that deliver multiple lives. And when it comes to productivity, they'll help your operation go the distance. They're infused with performance-enhancing technologies, easy to operate and service, and supported by the world-class Cat dealer network. The result? High reliability, maximum productivity, long life — and the lowest cost of ownership of any material mover in the industry.

These benefits, and many more, make Cat dozers the ideal choice for every site or application. And they deliver a better bottom line to the most important operation in the world: yours.

UP TO 4% LESS FUEL CONSUMPTION

UP TO 3% MORE PRODUCTIVE

UP TO 6% MORE EFFICIENT WITH:

- » Stator clutch torque converter
- » Single plane cooling
- » Load-sensing hydraulics

Infused with proven technologies

- » Improved operator interface & updated cab screens
 - » Improved Autocarry and AutoRip
 - » Remote-control-ready from the factory
 - » Seamless integration with updated electronic architecture
-

Reduced maintenance costs through longer component life and improved serviceability



EXTENDED COMPONENT LIFE

+



EXTENDED OIL CHANGES

+



REPLACEABLE BEARINGS

+



IMPROVED TECHNOLOGY

+



INCREASED SERVICEABILITY

=

UP TO 8% REDUCTION IN MAINTENANCE & REPAIR







DELIVERING THE **LOWEST** COST OF OWNERSHIP

No other manufacturer has more experience moving material than Caterpillar. There are more Cat large dozers working around the world than any other brand. Our long history of evolution and innovation has helped us remain the leader for over a century.

A PROVEN DESIGN PHILOSOPHY

When it comes to making Cat large dozers, we follow a proven design philosophy that focuses around five main areas:

1. Keep operators safe, comfortable and in control
2. Ensure productivity in all applications
3. Take advantage of the latest technology
4. Make dozers that are easy to maintain and repair
5. Make sure they are built to last

By following this philosophy—for every large dozer, every time—we ensure that our customers get what they expect from Caterpillar: the lowest cost of ownership of any material mover in the industry.

OPTIMIZE YOUR DOZING OPERATION

When it comes to productivity, the D10 will help your operation go the distance. Infused with performance-enhancing features, the D10 helps you improve the efficiency of your dozing operation.



POWER MANAGEMENT

Helping you maximize the material moved for every drop of fuel, the C27 engine automatically switches engine power settings based on direction of travel. With approximately 20% more power in reverse, you can return faster for reduced cycle times. Fuel efficiency improvements vary by application, but it has consistently shown a 4% improvement with no noticeable changes felt by the operator.

HIGH EFFICIENCY. REDUCED FUEL.

The new D10 features the Cat stator clutch, which automatically frees up the stator when torque multiplication is not required under low load, resulting in higher drivetrain efficiency for reduced fuel consumption. During higher loads and retarding conditions, it locks automatically. Unlike competitive dozers, this automated solution does not require a mode selection, is seamless to the operator and does not affect operator ride.



4%
LESS
FUEL



PERFORMANCE AND EFFICIENCY ENHANCEMENTS TO BOOST YOUR PRODUCTIVITY

WORLD-CLASS CABIN—boosts operator efficiency

MULTIPLE TECHNOLOGY OFFERINGS—drive operator and operational efficiencies

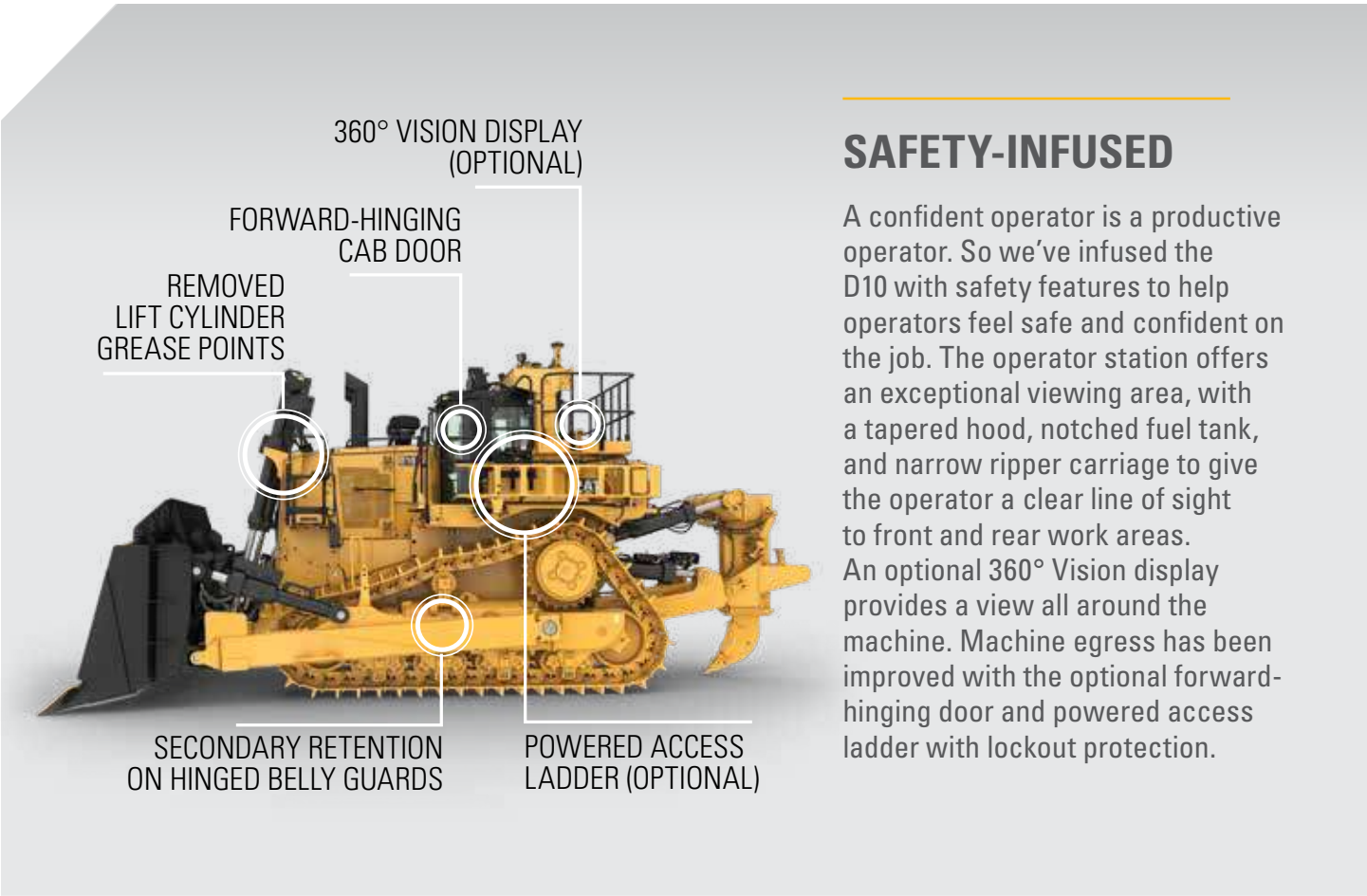
STATOR CLUTCH TORQUE CONVERTER—automatically frees up the stator when torque is not required, delivering higher drivetrain efficiency for reduced fuel consumption

LOAD-SENSING HYDRAULICS—deliver more power to the ground, increasing responsiveness and boosting fuel efficiency

SINGLE PLANE COOLING SYSTEM—enables better heat rejection and easier cooling core cleanout with improved access

HIGH-HORSEPOWER REVERSE—speeds up non-productive traveling to reduce cycle time and boost overall productivity





SAFETY-INFUSED

A confident operator is a productive operator. So we've infused the D10 with safety features to help operators feel safe and confident on the job. The operator station offers an exceptional viewing area, with a tapered hood, notched fuel tank, and narrow ripper carriage to give the operator a clear line of sight to front and rear work areas. An optional 360° Vision display provides a view all around the machine. Machine egress has been improved with the optional forward-hinging door and powered access ladder with lockout protection.

DESIGNED FOR COMFORT

Noise, vibration, stress and fatigue all have an effect on operator performance — so we've designed an environment that helps minimize them. The operator station in the D10 reduces effort and exposure. The cab is unparalleled, with enhanced ergonomics, a fully adjustable air suspension seat, and controls that are easy to access and operate. Low-effort electronic steering, ripper and dozer controls are easily accessible and provide sure, precise maneuvering. The automatic climate control system automatically adjusts heating and air conditioning controls to maintain a consistent temperature throughout the day. And the suspended undercarriage absorbs impact and reduces the shock loads transferred to the operator by up to 50 percent — resulting in a smoother, more comfortable ride compared to competitive models.





PRODUCTIVITY-ENHANCED

The operator environment in the D10 is more than a cab; it's an integrated electronic platform designed to maximize productivity. The multi-color/touchscreen display 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 display consolidates functions so there are fewer

buttons and screens in the cab. It stores 41 languages and is also used for the optional ripper view camera. We've made it easier for operators to use automated features such as Automatic Ripper Control and Autocarry.

The touchscreen Information Display is larger, faster, and more powerful with increased memory and intuitive menu structure. The optional Work Monitor screen within the Information Display collects machine data and provides real-time feedback on machine performance to optimize productivity.





D10

DOZER

TAKE INNOVATION

TO A
NEW
LEVEL

Cat large dozers became the industry leader by being innovative — and today's D10 takes innovation to a new level. The D10 takes advantage of a number of onboard technologies today and is future-ready for technology enhancements to come.

Features like Automated Blade Assist, Autocarry, Automatic Ripper Control and Cat Grade Control 3D are seamlessly integrated into the D10. In addition, the D10 comes out of the factory ready to integrate Cat MineStar™ technology, which takes accuracy, efficiency and safety even further

AUTOCARRY

The optional Autocarry feature provides automatic blade control during the carry segment, reducing operator fatigue and helping to keep slip at the optimum level for best performance.

- + Increases productivity up to 10%
- + Lowers cost per unit of material moved
- + Delivers better performance in limited visibility



CAT GRADE CONTROL 3D

This optional system uses dual ROPS-mounted GNSS antennas and in-cylinder sensors to provide precise positioning of the cutting edge. Three operating modes—Rough Grade, Grade Protection and Grade Control—enable consistent grades.

- + Reduces number of people required on site
- + Lowers personnel costs
- + Enhances safety



GET THE BENEFITS OF SEAMLESS INTEGRATION

DUAL-TILT AUTOMATED BLADE ASSIST

Automated Blade Assist (ABA) comes standard on the D10. This feature automates the movement of the blade to several key preset pitch positions. The positions of each segment—load, carry and spread—can be set through the Information Display.

- + Increases efficiency
- + Reduces operator workload

AUTOMATIC RIPPER CONTROL

This optional feature monitors the dozer speed with the ROPS-mounted GNSS to automatically adjust engine speed and ripper depth to minimize track slip.

- + Decreases wear and tear on the machine
- + Maintains maximum productivity





RUN YOUR DOZERS REMOTELY

COMMAND FOR DOZING

The D10 leaves the factory ready for seamless integration of MineStar Command for dozing. Command offers multiple levels of remote-control operation, helping increase operator safety and comfort — as well as the productivity of your dozer fleet. Whether you choose the over-the-shoulder remote control console or the remote operator station, your operators can have full control of the dozer without being exposed to dust, noise, vibration or other hazards.

**WORK MORE ACCURATELY,
SAFELY AND EFFICIENTLY**

CAT MINESTAR SOLUTIONS FOR DOZING



SPEED THE WORK

TERRAIN WITH AUTOMATIC BLADE CONTROL

MineStar Terrain with Automatic Blade Control provides full automatics, full blade load and overcut protection integrated into the machine control system on D10 dozers. These tools speed the work, decrease fuel burn and minimize overcut, overfill and rehandling



INFORM YOUR OPERATORS

TERRAIN FOR GRADING

With onboard guidance tools and real-time feedback, MineStar Terrain for grading gives operators the information to maximize machine efficiency by monitoring ore bodies, bench heights, cycle times and volume of material cut and filled. Inputs from the office tell operators where to dig or cut, how much material to move, when they've moved enough and even if they've moved too much.

**REDUCE YOUR
DOWNTIME.
REDUCE YOUR
COSTS.**

The Cat D10 is designed to be easy to service and maintain — so your machines spend less time in the maintenance shop and more time on the job. We reduced maintenance downtime by extending oil change and fluid intervals, adding an easy-access radiator door and single plane cooling system for easier cleaning, incorporating new push-arm bearing inserts and introducing Remote Flash software so updates can be performed remotely. Commonality with other dozer models streamlines maintenance across your fleet.

Remote Flash software, which allows updates to be performed remotely

Large engine oil sump with 50% more capacity, enabling extended oil change intervals and higher average oil quality

Factory-installed fire suppression

Fully integrated Cat AutoLube solution

Single plane cooling system paired with large radiator access covers for improved core cleaning

Updated fast fuel station with engine oil, powertrain oil, hydraulic oil and coolant

Replaceable push-arm trunnion bearing inserts

Improved bottom guard access, with retention plate on each hinged guard





DOZERS THAT ARE MADE TO GO THE DISTANCE

The durability and reliability of Cat dozers are unmatched in the industry. It's not unusual for a Cat dozer to log more than 100,000 hours.



Improved case and frame to increase fatigue life



Single plane cooling system reduces heat load for longer component life



Increased oil pan capacity improves oil quality and engine life

DOZE. REBUILD. REPEAT.

The D10 frame, powertrain and major components are built to be rebuilt—using new, remanufactured or rebuilt parts and components—so you can take advantage of a cost-effective second life of like-new performance at a fraction-of-new price.

The backbone of the machine is a heavy, strong and durable frame with high-strength steel castings and continuously rolled top and bottom frame rails. Frames provide durable support to the undercarriage, elevated final drives and other components.



CAT BLADES:

THE PERFECT MATCH FOR CAT DOZERS

Decades of dozer research and development have made Caterpillar the leader in blade technology. Cat blades are designed for loadability and constructed of high-tensile strength materials to produce big numbers over a long life.

- + Optimal heel clearance and sharp cutting edge angle, which make the blade more aggressive in tough material
- + Superior loadability due to heavy moldboard construction and bolt-on hardened cutting edges and end bits
- + Ability to resist torsional bending and distortion
- + Material thickness chosen specifically to increase wear resistance and dozing effectiveness — without sacrificing machine balance or performance



BLADE OPTIONS for the D10

Work-tool options are available for applications requiring high-capacity blades for light materials.

- + Universal (U)
- + Semi-Universal (SU)
- + Coal
- + Reclamation
- + Wood Chip



Multi-shank Ripper

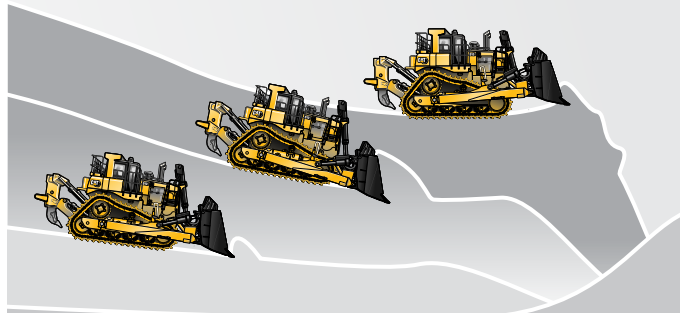
REAR ATTACHMENTS

- + Single-Shank Ripper
- + Multi-Shank Ripper
- + Counterweight

CapSure™ Hammerless Ripper Tip and Shank Protector Retention System

The tip and shank protector are easily installed with a 180-degree turn of a 3/4-inch ratchet. This simple installation means no hammering and therefore improved safety. It also means quicker change-outs and less downtime.

3 PITCH POSITION OPTIONS + **5%** MORE MATERIAL MOVED



TILT FORWARD TILT BACK TILT FORWARD
CUT » CARRY » DUMP

DUAL TILT ADVANTAGE

The Dual Tilt option delivers a significant boost to productivity by allowing the operator to optimize blade pitch angle, improving load control and making it possible to carry material instead of only pushing it. In a direct comparison between two dozers, a D10 Dozer with Dual Tilt moved 5% more material than the one without.

TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE – U.S. EPA TIER 2 EQUIVALENT OR U.S. EPA TIER 4 FINAL / EU STAGE V EQUIVALENT			
Engine Model	Cat C27		
Bore	137 mm	5.4 in	
Stroke	152 mm	6.0 in	
Displacement	27.0 L	1,648 in ³	
Engine Power			
Gross SAE J1995*	Forward	470 kW	630 hp
	Reverse	571 kW	766 hp
ISO 14396	Forward	462 kW	620 hp
	Reverse	562 kW	754 hp
Net SAE J1349/ ISO9249**	Forward	450 kW	603 hp
	Reverse	538 kW	721 hp
Emissions	U.S. EPA Tier 2 equivalent or U.S. EPA Tier 4 Final / EU stage V equivalent		
* Excludes all fan losses. • All Engine ratings apply at 1,800 rpm. • No derating (in FWD gears) required up to 4572 m (15,000 ft) altitude. ** 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.			

FLUID CAPACITIES		
Fuel Tank (Total volume)	1269 L	335.2gal
Fuel Tank (Usable volume)	1224 L	323.3 gal
Cooling System (Tier 4 final)	175 L	46.2 gal
Engine Crankcase Sump	103 L	27.2 gal
Powertrain (total)	308 L	81.4 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	160 L	42.3 gal

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.

TRANSMISSION		
1.0 Forward	4 km/h	2.52 mph
2.0 Forward	7.2 km/h	4.5 mph
3.0 Forward	12.5 km/h	7.8 mph
1.0 Reverse	5.2 km/h	3.2 mph
2.0 Reverse	9 km/h	5.6 mph
3.0 Reverse	15.7 km/h	9.8 mph
Type	Planetary powershift	

BLADE	SEMI-UNIVERSAL ABR	UNIVERSAL ABR
Blade Capacity (SAE J1265)	18.5 m ³ 24.2 yd ³	22 m ³ 28.7 yd ³
Blade Width (over end bits)	4940 mm 194.5 in	5260 mm 207.1 in
Blade Height	2120 mm 83.5 in	2120 mm 83.5 in
Maximum Digging Depth	764.1 mm 30.1 in	764.1 mm 30.1 in
Ground Clearance maximum	1523 mm 60.0 in	1523 mm 60.0 in
Maximum Tilt	1430 mm 56.3 in	1545 mm 60.8 in
Blade Weight	9421 kg 20,770 lb	10 698 kg 23,585 lb

DIMENSIONS	D10
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
Height (ROPS cab / 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 with SU Blade and SS Ripper**	9158 mm 360.6 in
*Includes grouser height for total dimensions on hard surfaces.	

STANDARD & OPTIONAL EQUIPMENT

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

OPERATOR EQUIPMENT	STANDARD	OPTIONAL
ROPS/ FOPS, Sound-Suppressed Cab	•	
High-Definition Primary Touchscreen Display	•	
Visibility – Rearview Mirrors	•	
Visibility – Camera: Back-up & Ripper		•
Visibility – Four Cameras, 360-Degree View		•
Air Conditioner and Heater with Automatic Climate Control	•	
Seat – Heated, Cooled, Adjustable Lumbar and Bolsters		•
Adjustable fingertip Steering Controls	•	
Entertainment Radio Ready (12V Power, Harness, Speakers)	•	
Cab Glass – Single-Pane Tinted Safety	•	
Cab Glass – Dual-Pane Laminated Impact Safety		•
Cab Glass – High-Pressure Safety (40 psi / 275 kPa)		•
Cab Access – Blade Push-arm Steps and Grab Handle	•	
Cab Access – Powered Ladder		•
CAT TECHNOLOGY PRODUCTS	STANDARD	OPTIONAL
VIMS SM	•	
Autocarry		•
Auto Ripper Control		•
Cat Product Link™ Elite (cellular) (When allowed by local regulations)	•	
Cat Product Link™ Elite Dual Mode (cellular + satellite)		•
Cat GRADE with 3D		•
MAINTENANCE AND SERVICE	STANDARD	OPTIONAL
Ecology Fluid Drains – All Compartments	•	
Hinged Bottom Guards	•	
Ground-Level Fast Fuel Fill	•	
S-O-S SM Fluid Sampling Ports	•	
Ground-Level – Fluid Fill & Drain Engine, Power Train, Hydraulic & Coolant		•
Anchorage Points	•	
CapSure™ Hammerless Ripper Tip and Shank Protectors	•	
OTHER	STANDARD	OPTIONAL
Fire Suppression Ready		•

UNDERCARRIAGE	STANDARD	OPTIONAL
Abrasion Rollers and Idlers		•
Cold Weather Rollers and Idlers		•
Suspension-Type Undercarriage	•	
Equalizer Bar – Greased End Pin Bearings	•	
Track Links – Heavy-Duty XL – Duralink		•
Track Shoe – Anti-Packing Round Hole		•
Carrier Roller		•
ELECTRICAL	STANDARD	OPTIONAL
24V Electric Start	•	
Alternator – 150-Amp	•	
Batteries – 2x, 200-Amp Hour, 12V	•	
Batteries – 4x, 200-Amp Hour, 12V		•
Battery Isolation – Single Pole	•	
Lights – Halogen – 12 Positions		•
Lights – LED – 12 Positions	•	
Lights – Premium LED – 12 Positions		•
HYDRAULICS	STANDARD	OPTIONAL
Electronically Controlled, Load-Sensing Dozer Lift and Tilt	•	
Dozer Blade – Dual Tilt	•	
CAT POWERTRAIN	STANDARD	OPTIONAL
Cat C27 Engine – US EPA Tier 4 Final, or US EPA Tier 2 Equivalent, EU Stage V	•	
Stator Clutch Torque Converter – Electronic Control	•	
Powershift Transmission – Three-Speed Electronic Shift	•	
Enhanced Auto Shifting (EAS)	•	
Cooling – High-Performance Single-Plane Package with Aluminum Radiator	•	
Cooling – Hydraulically driven fan with Reversing capability		•
Stainless Steel Manifold Shields and Thermal Wrapped Turbos	•	
Final Drive Seal Guard – OPL / Clamshell		•
REAR ATTACHMENTS	STANDARD	OPTIONAL
Ripper – Single-Shank with Pin Puller		•
Ripper – Multi-Shank (three)		•
Counterweight		•
WORKTOOLS BLADES	STANDARD	OPTIONAL
Reclamation Universal (24.5 m ³ /32.0 yd ³)		•
Coal Universal (46.1 m ³ /60.3 yd ³)		•
Coal Universal (52.0 m ³ /68.0 yd ³)		•
Woodchip Universal (72.6 m ³ /95 yd ³)		•



D10 DOZER

For more complete information on Cat products, dealer services and industry solutions, visit us at www.cat.com

©2022 Caterpillar. All Rights Reserved.

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

© 2022 Caterpillar. All Rights Reserved. CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Yellow", the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

AEHQ8429_02
Build Number: 07A

