

THE EXPERIENCE TO HELP YOU GO THE DISTANCE

The concept for the first dozer was developed nearly 120 years ago by Caterpillar founder Benjamin Holt to solve a challenge — wheeled steam tractors getting stuck in the soggy peat soil found in Northern California, USA. His solution was to replace the wheels with a pair of tracks he designed. And it worked.

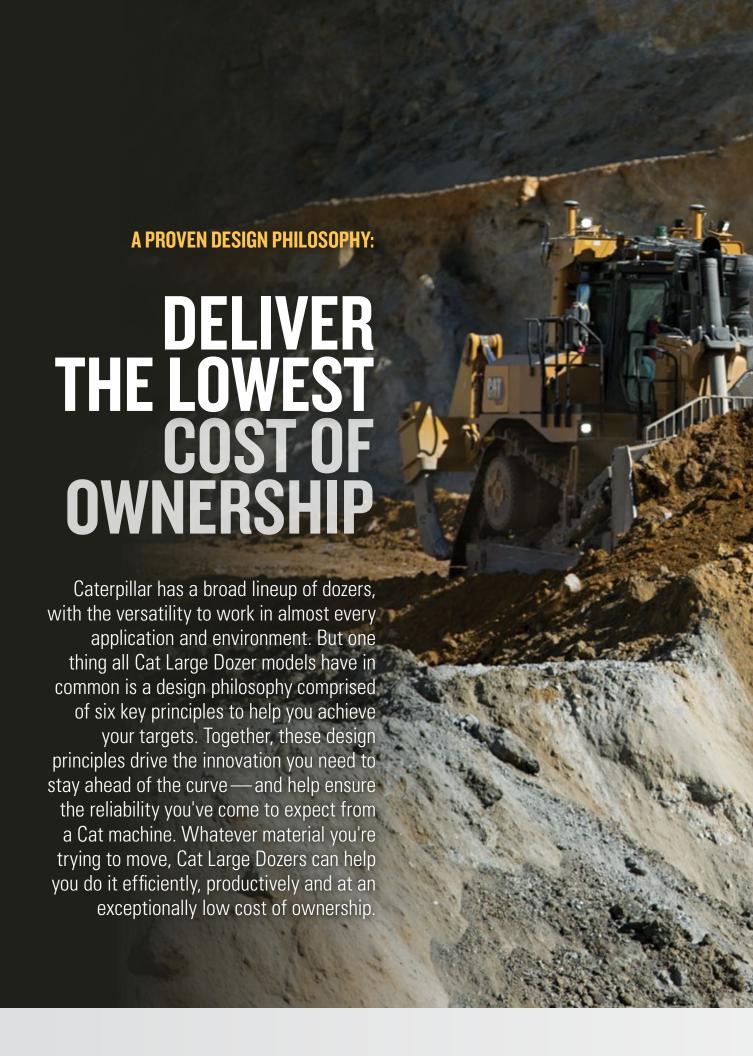
Since developing the first dozer to run on tracks, finding solutions to address your challenges has been the driving force for over a century of dozer evolution. We have a continual focus on innovation — from inventing the performance-enhancing high drive system over 40 years ago, to today's efficiency-boosting stator clutch torque converter; from differential steering and planetary transmissions to operator assist features, remote control and semi-autonomous dozing. Every new product we introduce and new technology we integrate is designed to meet your needs today while serving as a building block to satisfy the demands of the future.

The versatility Cat large dozers provide to your operation is extensive, and their contributions to a better life and sustainable future are farreaching. Over the past 100 years, they have

been used to build an airport in Japan, the Panama Canal, and the Guri Dam in Venezuela. In the United States, dozers have moved earth for the Hoover Dam, U.S. Interstate Highway system, Mount Rushmore National Memorial and the Crazy Horse Monument. They've worked on the Kuwaiti oil fires and construction of The Line in Saudia Arabia—a linear city that is one of the largest construction projects in the world.



dozers introduced





By following this philosophy—for every large dozer, every time—we help to ensure you get what you expect from Caterpillar: a safe, reliable, highly productive machine at the lowest total cost of ownership.

There are six principles that drive our design philosophy:

- Help to ensure operator safety, comfort and ease of operation
- 2 Maximize productivity in all applications
- Drive innovation with the latest technologies
- 4. Build dozers that are easy to maintain and service
- Deliver high reliability and multiple lives through machine rebuilds
- 6 Minimize environmental impact



FOCUS ON SAFETY

The operator station offers an enhanced viewing area, with features such as 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. Caterpillar is the first large-dozer manufacturer to provide a quad-camera 360-degree view—removing distortion to give operators a more realistic view. The operator can select a specific camera view or show all four views.

THE OPTIONAL POWERED ACCESS LADDER is equipped with engine-off raise and lower capability, plus lockout protection. When paired with the optional forward-hinging door, operators have safer and easier access to the cab.

VARIOUS GLASS OPTIONS

offer additional protection from potential safety risks, including penetration from projectiles or falling objects, or accidental engulfment due to shifting stockpiles or material voids.





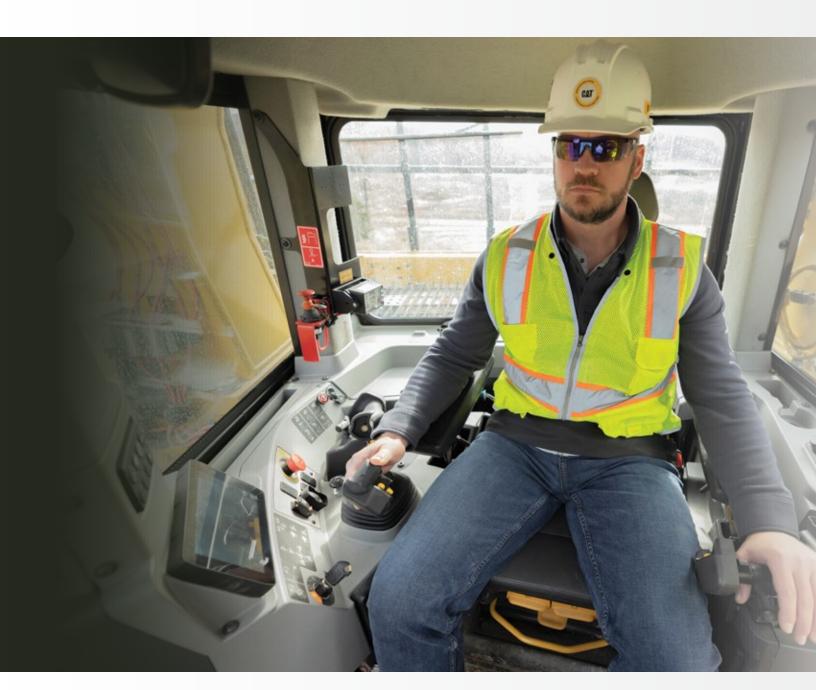


CREATE A COMFORTABLE ENVIRONMENT

Productive operations begin with a productive operator. Noise, stress and fatigue all have an effect on operator performance—so we've designed an environment that helps minimize them.

The operator station in our large dozers reduces effort and exposure. The suspended undercarriage absorbs impact and reduces the shock loads transferred to the undercarriage, resulting in a smoother, more comfortable ride.

Our unparalleled cab is common for all Cat dozer models. It offers enhanced ergonomics, an updated seat with optional heat and ventilation, and controls that are easier to access and operate. Low-effort, electronic steering, ripper and dozer controls are easily accessible and provide sure, precise maneuvering. The standard isolation-mounted cab reduces noise and vibration, and the automatic climate control system automatically adjusts heating and air conditioning controls to maintain a consistent temperature throughout the day.





FORWARD-HINGING DOOR

The optional forward-hinging cab door provides easier access from the ladder.



The Cat dozer operator environment is more than a cab; it's an integrated electronic platform that enables more effective fleet management.

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. In addition to storage and support for 41 languages, it can also display the view from the optional ripper camera. Operators can use the display to save preferred settings and configurations via individual profiles, enabling them to

get to work faster. The display also offers independent lighting controls to improve operator visibility. Optional integrated technologies, such as Auto Blade Assist (ABA), Autocarry™ and Autorip help improve dozer efficiency and productivity by reducing operator inputs.

The touchscreen is large, fast and powerful, with increased memory and intuitive menu structure. It can store settings and preferences for up to 40 different profiles, decreasing set-up time for individual operators. The Work Monitor screen provides real-time feedback on machine performance to optimize productivity.





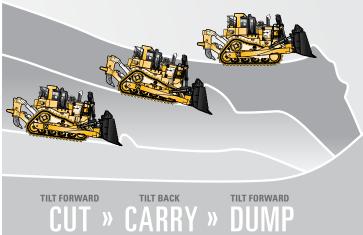


Operator assist features help both new and seasoned operators work more accurately and efficiently, increasing overall productivity.

- + Dual-tilt with Automated Blade Assist (ABA) increases efficiency while reducing operator workload, making use of preset blade pitch positions for the cut, carry and spread portions of the cycle. (Dual tilt with ABA is a standard offering for D10 and D11 and optional for D9.)
- + Auto downshift and enhanced autoshift (EAS) work hand-inhand to provide optimal performance with minimal operator effort.

EAS automatically selects the optimal gear and engine speed combination based upon powertrain load and desired ground speed. The function enables ad-hoc gear selection and allows the operator to set a maximum gear.

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. When the machine senses too much load, it will automatically downshift to increase drawbar power to compensate for the large load.



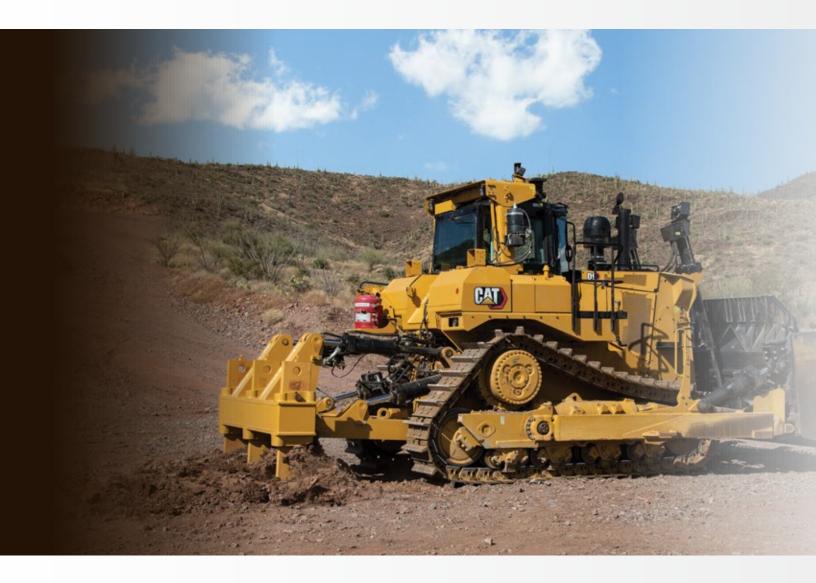
- + Bi-directional shift, a function enabled by EAS, allows the operator to automatically select the desired forward and reverse gears (or speeds) with a simple directional change. Operators may select between four preset settings, or they can create one custom setting.
- + Slope indicator tells the operator the fore, aft and side slope (pitch and roll) of the area where they're working, helping to ensure the dozer is not working on a slope that is too extreme.
- + An engine speed throttle control dial allows the operator to finetune the throttle adjustment.



The latest generation of Cat Large Dozers offers offer a number of features that enhance performance.

- + The torque converter with stator clutch automatically frees up the stator when torque multiplication is not required under low load. This delivers higher drivetrain efficiency and reduces fuel consumption.
- + High horsepower reverse enhances productivity when reversing on slopes by reducing cycle time and speeding up non-productive time.
- + Load-sensing hydraulics deliver more power to the ground, increasing responsiveness and boosting fuel efficiency.
- + Cat planetary power shift transmissions are the industry standard for high performance. Three forward speeds and three reverse speeds provide fast directional changes for high productivity.
- + Improvements in machine balance increase productivity by allowing dozers to work safely on slopes.





CHOOSE THE RIGHT BLADES AND ATTACHMENTS

Extensive dozer research and development have made Caterpillar the leader in blade design. Cat blades are built for loadability and fabricated from high-tensile strength materials to carry large loads over a long lifetime.

- + Optimal heel clearance and sharp cutting edge enable better performance.
- + Bolt-on hardened cutting edges and end bits deliver superior loadability.
- + Heavy moldboard construction resists torsional bending and distortion.
- + Heavy duty materials resist wear and increase blade life.



Rear Attachments

- » Single-shank ripper with optional push block and retrieval hitch
- » Multi-shank ripper
- » Deep shank ripper options
- » Counterweight
- » Striker box (D9 waste handler)

Blade Options

- » Universal (U)
- » Semi-Universal (SU)
- » Waste
- » Coal
- » Reclamation
- » Wood Chip
- » Cushion (available for D10)
- » Carrydozer (available for D11)
- » Extra-capacity Universal (XU) (available for D11)





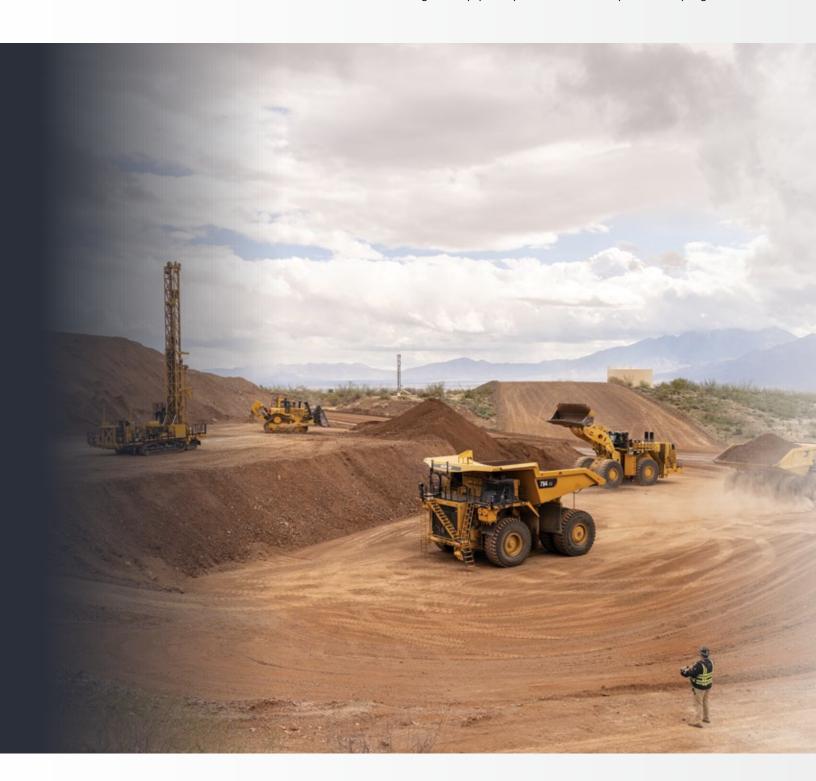
GET THE BENEFITS OF SEAMLESS INTEGRATION

Optional advanced technologies are completely integrated into the large dozer product line, leveraging data to increase operator efficiency and maximize the productivity of your operation. Some of these technologies use satellite-based positioning to automate functions.

- AutoCarry automatically adjusts blade height to keep the blade at optimal load capacity, minimizing track slip and reducing operator fatigue to improve performance, increase productivity and lower the cost per unit of material moved.
- Automatic Ripper Control monitors dozer speed via GPS to automatically adjust engine RPM and ripper depth to minimize track slip, decreasing wear and tear on the machine and maximizing productivity.
- + Automated Blade Assist (ABA) increases efficiency while reducing operator workload, making use of preset blade pitch positions for the cut, carry and spread portions of the cycle. (Available for D10 and D11 only.)

TAKE INNOVATION TO THE NEXT LEVEL

MineStar Solutions for dozing are focused on operators—providing the information they need to maximize their efficiency. Operators have access to onboard guidance tools and real-time feedback on bench heights, cycle times, volume of material cut and filled, and more. You can also incorporate remote or semi-autonomous dozing to keep your operators safe and productivity high.





- + MineStar Terrain with Automatic Blade Control integrates full automatics, full blade load and overcut protection into the machine control system on Cat dozers. These tools speed the work, decrease fuel burn and minimize overcut, overfill and rehandling.
- + With onboard guidance tools and real-time feedback, MineStar Terrain for grading gives operators information they can use to maximize machine efficiency. It uses Global
 - Navigation Satellite System (GNSS) antennas to monitor 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.
- Another optional feature, Cat Grade Control 3D is an onboard technology that is specific to the machine. It leverages the same GNSS satellites as Terrain; however,

- there is no connection to other machines or office applications. Three operating modes Rough Grade, Grade Protection and Grade Control enable consistent grades. This optional feature reduces the number of people required on site, which lowers personnel costs and enhances safety.
- + Cat dozers ship from the factory ready to be equipped with MineStar Command. 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.





REDUCE MAINTENANCE DOWNTIME

We reduced maintenance downtime by extending oil change and fluid intervals, adding easy-access radiator doors and a single plane cooling system for easier cleaning. New push-arm bearing inserts eliminate the need for cutting and welding to replace worn parts. Remote Flash software enables remote updates, and commonality with other Cat dozer models streamlines maintenance across your fleet.

- + The AutoLube system provides ground-level fill and automatic shutoff capability as well as external pressure gauges for pump function feedback and troubleshooting.
- + Ecology drains use a valve rather than a plug to provide an environmentally safe and effective method to drain fluids. These drains can be found in the radiator, hydraulic tank, and major powertrain components where fluids are commonly changed.
- An improved bottom guard access with secondary catch improves safety and simplifies maintenance by making removal easier.
- + Standard features include ground-level access to fluids and lighting controls, secondary



engine shutoff and optional ladder raise/lower switch.

- + Continuous fluid level monitoring is provided for engine oil, coolant, powertrain and fuel compartments.
- The high-speed oil change attachment provides two connections inside the left engine compartment door—one for removing engine oil and the other for powertrain oil.
 Oil is quickly removed using a pump truck.
- + Optional DuraLink™ track assembly delivers seal life of up to 8,000 hours.
- + Fast Fill enables efficient, ground-level filling of engine, powertrain, hydraulic and coolant fluids.

COUNT ON THE CAT DEALER NETWORK

Our founders invented the dozer over a century ago and have been reinventing and improving it ever since. But one of our biggest differentiators isn't our products themselves. It's our dealer network. When it comes to service and support, you make one call — to your local Cat dealer.

No one knows more about how to get the most from a piece of Cat equipment than Cat dealers. This one-of-a-kind, on-the-ground support network delivers expert service, integrated solutions, after-sales support, fast and efficient parts fulfilment, world-class rebuild and remanufacturing capabilities, and more.



Cat dealers operate as nearly 150 local businesses — each one fully embedded in and committed to the geographic area it serves. That means you work with people you know, who know your business.

GET A STRESS-FREE OWNERSHIP PLAN

Cat Customer Value Agreements (CVAs) for Mining are customizable plans for your equipment—new or used—to do more work with lower, more predictable costs. From delivered maintenance kits to flexible payment options and tailored component cost-per-hour guarantees, it's a convenient plan to get the most from your equipment throughout its lifecycle.

- + Hassle-Free Ownership. CVAs bring together dealer advice, easy parts acquisition, plus options for flexible payment terms.
- + Hassle-Free Maintenance. Getting the right Genuine Cat Parts delivered to the right place at the right time makes it easier for maintenance to get done. Service options are flexible to meet your needs.
- Security of Expert Dealer Support.
 Cat CVAs are customized plans that offer troubleshooting, diagnostics and repairs

- with Genuine Cat Parts. If you need trained technician assistance, there are options for that, too.
- + Peace of Mind from Equipment Health
 Management. You get easy access to
 monitoring tools with a Cat CVA. Digital
 tools give you the ability to access important
 operating parameters for your business
 anywhere you have an internet connection.

For more information about CVAs, contact your local Cat dealer.



CHOOSE THE RIGHT UNDERCARRIAGE

The undercarriage typically represents a large portion of your dozer's owning and operating costs, so it makes sense to invest in a package that will deliver the most value. Every Cat Undercarriage is designed by Caterpillar engineers and built to exacting specifications.

All Cat Undercarriage components are integrated with the machine and designed to work as a system. Caterpillar product support, warranty, undercarriage assurance programs, and worldwide parts distribution network ensure responsive service and long life.

High-quality materials and carefully controlled manufacturing processes deliver reliable, durable components that wear at a balanced rate. Longer life and predictable, manageable wear mean you get maximum undercarriage performance at the lowest possible operating cost.

UNDERCARRIAGE OPTIONS INCLUDE:

- + General Duty for low-to-moderate impact applications where the elevated performance of the Cat Heavy Duty Undercarriage is not needed.
- + Heavy Duty—for hard rock applications where impact levels range from moderate to high. Built for jobs that need a wear life of 5,000 hours or more, it's tough enough to handle harsh impact applications with wear material designed for long life in abrasive conditions.
- + Heavy Duty Extended Life with Duralink (HDXL) — engineered with additional wear material, heat treatment and increased sealability to deliver up to 40% longer life.

TRACK SHOES

Track shoes are an integral part of the undercarriage and are designed to prevent bending and breaking, even when operating on hard rock, boulders and other rough terrain.



Undercarriage shoe options include:

- + Moderate service (MS) (D9 only)
- + Extreme service (ES)
- + Super extreme service (SES), a flexible new offering that can be paired to the application. SES allows for a thicker pad and a taller, thicker grouser for up to 30% extended wear life compared to an ES shoe.

SERVICE & SUPPORT

To help you get the most from your Cat Undercarriage, Caterpillar and Cat dealers are dedicated to providing you with global service and support for all undercarriage configuration options — from advanced diagnostics to worldwide parts delivery.

Our Undercarriage Assurance Programs were developed to demonstrate our commitment to providing you the lowest cost-per-hour undercarriage systems. Assurance Programs offer you support beyond the standard new machine or parts warranties. They cover all major moving undercarriage components on Cat Dozers.







Every site approaches sustainability in its own way. Some of our customers are looking for engines that burn less (or different) fuel, machines that work more productively and job sites that are more efficient. Others want to repair, rebuild and upgrade their current equipment instead of buying new. Whatever your requirements, we want to work together to help you meet them.

- + Our large dozers are designed to use less fuel, which reduces engine emissions
- + The Tier 4 Final engine reduces NOx and particulate matter and is compatible with diesel fuel blended with lower-carbon intensity fuels such as biofuels and renewable fuels.
- + Features like extended life filters and longer maintenance intervals decrease the amount of waste contributed to the environment.
- + By rebuilding machines and components, the Cat Rebuild and Cat Reman programs preserve raw materials, conserve energy and reduce emissions. In addition, retrofits and upgrades for older machines incorporate efficiency improvements and emission reductions, and keep them in production longer to conserve energy and minimize the need for raw materials.
- + Increased commonality of systems and components, plus a reduction in unique part numbers, reduces waste and lowers owning and operating costs.





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CAT D9GC DOZER

EASY TO OPERATE EASY TO OWN

The productive and familiar Cat D9 GC Dozer gives you performance and reliability in a simple, economical dozer. Equipped with a mechanical drivetrain, it's easy to operate, simple to repair, and built with all Cat components that work together to deliver top performance and high availability. The D9 GC builds on the success of the versatile and durable D9R, which has been hard at work around the world for more than three decades. The D9 GC's major components, parts and systems will look familiar to those who have owned, operated and maintained the D9R. The D9 GC delivers unmatched reliability and long life through a proven design. A variety of application-specific configurations and attachments makes the D9 GC the ideal dozer for a variety of applications.



ENGINE	Cat 3408C (mechanically controlled)
POWER	NET: 308 kW / 413 hp
DISPLACEMENT	18 L / 1,098 in ³
OPERATING MACHINE WEIGHT	49441 kg / 108,999 lb

TRACK GAUGE	2550 mm / 100.4 in
LENGTH OF TRACK ON GROUND	3470 mm / 137 in
TRANSMISSION	3F/3R Planetary Power Shift
STEERING	Clutch and Brake



ENGINE	Cat C18 (electronically controlled)
POWER	FORWARD: 337 kW / 452 hp REVERSE: 328 kW / 440 hp
DISPLACEMENT	18.1 L / 1,106 in ³
OPERATING MACHINE WEIGHT	49 988 kg / 110,225 lb

TRACK GAUGE	2250 mm / 88.6 in
LENGTH OF TRACK ON GROUND	3470 mm / 136.6 in
TRANSMISSION	3F / 3R Planetary Power Shift
STEERING	Differential



ENGINE	Cat C27
POWER	FORWARD: 450 kW / 603 hp REVERSE: 564 kW / 756 hp
DISPLACEMENT	27.0 L / 1,648 in ³
OPERATING MACHINE WEIGHT	70 256 kg / 154,888 lb

TRACK GAUGE	2550 mm / 100.4 in
LENGTH OF TRACK ON GROUND	3880 mm / 152.8 in
TRANSMISSION	3F / 3R Planetary Power Shift
STEERING	Clutch and Brake

MAKING THE BEST

The updated Cat D11 07B Dozer delivers higher productivity at lower cost — for a reduction of up to 6% in overall cost per bank cubic meter compared to the D11T. Infused with performance-enhancing features, the D11 helps you improve the efficiency of your dozing operation. The torque divider with stator clutch and high-horsepower reverse improve efficiency and increase productivity, while load-sensing hydraulics increase responsiveness and boost fuel efficiency. Specific to the 07B, the C32B engine features new final drives and a new radiator guard with double-trunnion lift cylinder mounts and access doors for the cooling package. Advanced technologies are completely integrated into the dozer, creating smart machines and more informed operators to maximize the productivity of your operation.



ENGINE	Cat C32B
POWER	FORWARD: 634 kW / 850 hp REVERSE: 714 kW / 957 hp
DISPLACEMENT	32.1 L / 1,959 in ³
OPERATING MACHINE WEIGHT	STANDARD: 106 824 kg / 235,507 lb CARRYDOZER: 113 700 kg / 250,665 lb

TRACK GAUGE	2896 mm / 114.0 in
LENGTH OF TRACK ON GROUND	4444 mm / 175 in
TRANSMISSION	3F / 3R Electronic Power Shift
STEERING	Clutch and Brake

Leveraging over 100 years of Caterpillar innovation, Cat dozers are made to go the distance, with a proven design and

durable construction that
delivers multiple lives. And
when it comes to productivity,
they'll help your operation
move more material. They're
infused with performanceenhancing technologies,
easy to operate and service,
and supported by the worldclass Cat dealer network.
The result? High reliability,
maximum productivity, long life — and
the lowest cost of ownership of any

material mover in the industry.





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