

# D7

## TRACK-TYPE TRACTOR



---

**Net Power**

ISO 9249/SAE J1349

197 kW (265 hp)

ISO 9249 (DIN)

268 mhp

**Operating Weight** (Standard SU/U)

29 776 kg (65,644 lb)

Cat® C9.3B Engine meets U.S. EPA Tier 4 Final, EU Stage V, Japan 2014, Korea Stage V, and China Nonroad Stage IV I emission standards.



The Cat D7 joins the growing family of Next Generation Dozers, delivering more productivity and high drive undercarriage value. A fully automatic 4-speed transmission makes efficient operation easy. The broadest range of technology features in the industry work together seamlessly to help you make the most of your equipment investment.

# THE CAT<sup>®</sup> D7

ELEVATE YOUR PRODUCTIVITY



## TECHNOLOGY FEATURES TO FIT YOUR BUSINESS

Your dozer is technology-ready so you can order technology packages from the factory, or easily upgrade later as your work demands it.

- + Package of Assist features gives you technology, like Cat Grade with Slope Assist™ and Steer Assist, that helps operators of varied skill levels get the job done faster and more easily.
- + Grade 3D with Assist package gives you all of the Assist features, plus 3D Grade and Steer Assist 3D. Get to design plan faster and with less operator effort so you can save time, money and fuel.
- + Remote Control ready cab enables dealer installation of the Cat Command system.



## NO NEED TO SHIFT

JUST SET YOUR GROUND SPEED AND GO.



- + No need to upshift/downshift
- + Fully automatic 4-speed transmission with lock-up clutch torque divider
- + Continuously selects the most productive, efficient gear and engine speed for the job

## HIGH DRIVE

Elevated sprocket undercarriage delivers performance and value, while heavier frame and structures bring added durability for lower cost of ownership.

## MOVE UP TO 8% MORE MATERIAL PER HOUR

Amp up your productivity with more weight and horsepower and a bigger blade. The smooth-shifting, fully automatic 4-speed powershift transmission provides efficiency and ease of operation, while a Next Generation cab sets a new standard in comfort and productivity.

## UP TO 50% MORE PRODUCTIVITY WITH CAT TECHNOLOGY

A broad range of Assist and Grade technology choices help boost productivity so you get the most from your machine. Remote Flash and Remote Troubleshoot help improve job site efficiency by saving you time.

All comparisons to D7E dozer.



## MOVE MORE

Harness 6% more weight and 12% more horsepower to move up to 8% more material per hour. Get work done in fewer passes with 10% more blade capacity.



## HIGH DRIVE, HIGH PERFORMANCE

Elevated sprocket undercarriage delivers better ride and balance, plus improved penetration force for top dozing performance.



## FULLY AUTOMATIC

Don't worry about changing gears. A smooth-shifting, fully automatic 4-speed transmission with lock-up clutch automatically optimizes based on load for greatest productivity and fuel efficiency.



## RELIABLE POWER

Cat C9.3B engine has a redesigned fuel system, as well as simplified electronics and emissions reduction, for greater reliability and reduced maintenance costs.

All comparisons to D7E dozer.

# AUTOMATICALLY EFFICIENT

## DO MORE WORK WITH LESS EFFORT



# OPERATOR HELPERS

## BUILT RIGHT IN

Assist technology features help make work easier, especially for less experienced operators. Some blade and steering functions are automated so newer operators can work at productivity levels closer to their veteran counterparts. Seasoned operators can enjoy reduced effort, along with faster, more accurate results. Attachment Ready Option (ARO) with Assist bundles these features into one productivity-boosting package.



## NO GPS SIGNAL? NO PROBLEM

**Cat Grade with Slope Assist** automatically maintains pre-established blade position without a GNSS/GPS signal – no additional hardware or software needed. For machines with 3D, operators can easily switch back and forth from full 3D automatics to Slope Assist.

## SMOOTH OPERATOR

**Stable Blade** works seamlessly with operator inputs to help produce a smoother surface when operating manually.

## STAY ON TRACK

**Steer Assist** automates track and blade tilt steering. Helps reduce operator fatigue by automatically maintaining straight travel with light loads or heavy loads on flat ground and side slopes. Helps reduce steering inputs up to 75%. No GNSS/GPS required.

## EASY UPGRADES

**Attachment Ready Option (ARO)** provides wiring and mounting provisions for dealer installation of Grade with 3D, Accugrade, UTS, or other grade control systems.

## KEEP PUSHING FORWARD

These Assist features help you make the most of every pass.

**Blade Load Monitor** gives you real-time feedback on current load versus the optimal blade load based on your ground conditions. Actively monitors machine load and track slip to help you reach optimal pushing capacity.\*

**Traction Control** automatically reduces track slip to save you time, fuel and track wear.\*

**AutoCarry** automates blade lift to help you maintain consistent blade load and reduce track slip.\*

**Slope Indicate** is included in the main machine display and shows side slope and uphill/downhill grades to help operators with slope work.

*\*Feature not operational indoors or in areas where a GNSS/GPS signal is not available.*

PROVEN ADVANTAGE

WORK HARDER

EASIER

Cat Assist and Grade technologies work in the background to help dozer operators of varied skill levels and are especially beneficial to less experienced operators. To demonstrate just how much these built-in technology features help, Caterpillar put them to the test. Two novice operators and two expert operators took on three challenges. Each operator completed three runs of each task – one in manual, one using Assist technology features, and one using Assist plus Cat Grade with 3D. The team measured productivity<sup>1</sup>, efficiency<sup>2</sup>, completion time, final surface quality and operator inputs.

## SLOT DOZING

**Productivity and efficiency** – novice operators went from 9% lower productivity and efficiency than the experts in manual to matching the experts when using Assist.

## TRUCK DUMP SPREADING/ GRADING IN SAND

**Completion time** – novice operators took 49% more time than the experts in manual and narrowed the gap to 17% using Assist and to 9% by adding Grade.

**Blade inputs** – novice operator blade inputs were reduced 45% with Assist, and 55% with Assist plus Grade. Expert operator blade inputs were reduced 32% with Assist, and 53% with Assist plus Grade.

**Surface quality** – novice operator surface quality improved up to 51% using technology while expert operator surface quality improved up to 27% using technology. Novice operators using technology produced similar surface quality to the expert operators in manual.

## SIDE SLOPE/STEER ASSIST

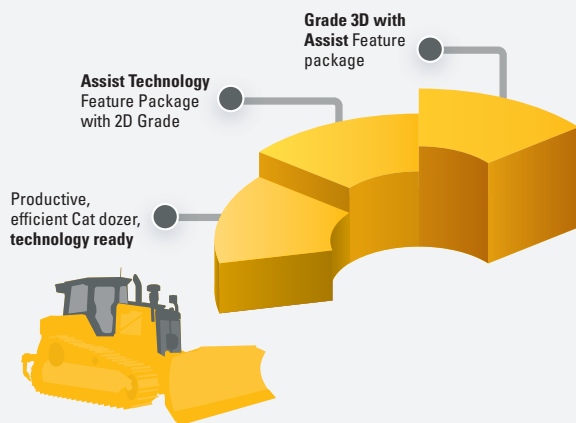
**Steering inputs** – novice and expert operator steering inputs reduced by 75% in forward and by 67% combining forward and reverse.

<sup>1</sup> Material moved per hour

<sup>2</sup> Material moved per unit of fuel/diesel exhaust fluid (DEF)  
Study conducted by Caterpillar, August 2022

## LEVEL UP

CHOOSE THE RIGHT LEVEL OF TECHNOLOGY TO FIT YOUR BUSINESS AND BUDGET. ORDER FROM THE FACTORY OR UPGRADE LATER.



TECHNOLOGY PACKAGES THAT HELP BOOST  
TIME / MONEY / FUEL SAVINGS



## 3D GRADE CONTROL

# BOOST YOUR PRODUCTIVITY

- + Factory integrated **Cat Grade with 3D** uses GNSS/GPS to control the blade so you can get to design the plan faster.
- + Cat Grade with 3D has no masts - low profile antennas are integrated into the cab roof and GNSS/GPS receivers are mounted inside the cab for better protection.
- + Automatically follow guidance lines from design plans with **Steer Assist 3D**. Stay on curb lines, centerlines, bottom of slope, etc., without operator effort. Track steering is used under light loads and blade tilt steering may be added under heavy loads.
- + Grade operator interface is intuitive and easy to use: 10-inch (254 mm) touchscreen, Android OS platform, operates like a smart phone.
- + Cab is Third-party Grade Control ready, equipped with CAN interface, harness pass throughs and mounting features to make it easier to install the grade control system of your choice.
- + All Cat Grade systems are compatible with radios and base stations from Trimble, Topcon, and Leica.
- + Already invested in a grade infrastructure? You can install grade systems from Trimble, Topcon, and Leica onto the machine.

## CAT® TECHNOLOGY IS LIKE HAVING A **COACH IN THE CAB**

### PLAY YOUR BEST

Optimal efficiency,  
fewer operator  
inputs

### KNOW THE SCORE

Real-time Feedback



### NO FOUL

Save rework, time, materials

# CAT EQUIPMENT MANAGEMENT TAKES THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

Getting the most out of your equipment requires hundreds of decisions, every day. Cat Equipment Management gives you access to all the data you need to keep your equipment on the job site and earning money. You can track equipment location and hours, monitor machine use and health, then take informed action that will keep your operation running smoothly, efficiently and profitably.

## CAT PRODUCT LINK™ AND VISIONLINK®

Product Link™ collects data automatically from your assets – any type and any brand. Access information anytime, anywhere with VisionLink® – and use it to make informed decisions that boost productivity, lower costs, simplify maintenance and more. Satellite and/or cellular subscriptions are available.



## REMOTE SERVICES

The Cat App helps you manage your assets – at any time – right from your smartphone. See fleet location and hours, get critical required maintenance alerts and even request service from your local Cat dealer.

- + **Remote flash** – get software updates remotely.
- + **Remote troubleshoot** – remote diagnostic testing helps pinpoint potential issues, saving time and money.
- + **Operator ID** lets you track machine operation by individual operator using the main display and Product Link.



## REMOTE CONTROL READY

When dozers work in hazardous mining and earthmoving applications, the Command for Dozing option helps improve safety and efficiency. Operators control the machine using a line-of-sight console or a remote operator station. Deep integration with machine systems enables smooth, precise control for maximum efficiency and productivity.

With the line-of-sight console, take advantage of the dozer's built-in operator assist features. The remote operator station also allows full use of Grade and Assist technology features for even greater productivity.

Please consult your Cat dealer for regional availability.





# COME ON IN AND MAKE YOURSELF COMFORTABLE

Step into a spacious cab that resets the industry standard for operator comfort, visibility and ease of operation. Integrated Rollover Protective Structure (ROPS) leaves plenty of glass area for all-around visibility. Clean sight lines along the hood give you an excellent view to the blade.



## STAY IN TOUCH

10-inch (254 mm) touchscreen main display is easy to use, with a great view of machine settings and features. The standard high-definition rearview camera shows prominently in the display and includes backup lines to guide you.

## WORK SPACE

A wide air-suspension seat gives you plenty of adjustments, so you can find just the right position. Enjoy ample storage space, along with heating/cooling to help keep you more comfortable and reduce window fogging/frosting too.

## ON-BOARD HELP

Key Features button in the display gives you a machine overview, along with helpful operating tips. Learn more about technology and machine features that help you get the most from your dozer.

DURABLE BY DESIGN

# BIGGER, BRAWNIER, READY TO WORK

Heavy frame and structures, along with some D8-sized components and an updated track roller frame, make the D7 even more durable. The 12-foot (3.5 m) shipping width\* means you have a dozer that is robust enough to take on tough jobs but easy to transport with the blade installed.

## GROUNDING IN DURABILITY

Heavy Duty Extended Life (HDXL) undercarriage is designed to save you money by extending service life in a wide range of applications. Choose Standard or Low Ground Pressure (LGP) undercarriage to outfit your dozer for the type of work you do.



## KEEP PUSHING

Semi-Universal (SU) and Straight (S) blades are 10% larger to help you finish in fewer passes. Strong box section design, heavy moldboard construction, hardened bolt-on cutting edges and end bits add strength and durability.

## CUTTING EDGE PERFORMANCE

Optional Cat FirstCut Cutting Edges for SU blades help you move material faster, especially in hard ground.

- + Patented design moves more material per pass – increases payload mass by up to 35%\*\*
- + Easier blade penetration in hard/frozen ground, moderate rock
- + Loads blade faster – aids blade control, load retention, traction – reduces track slip, helps improve undercarriage life
- + Up to 17% productivity improvement
- + Equal wear life/life cycle cost\* – no mid-life edge flip or end bit replacement required, reducing down time for maintenance
- + Built-in wear indicators, drilled and tapped holes for safer installation, interchangeable with traditional edges
- + Versatility – on-plane cutting system allows finish grading

\* Standard configuration

\*\* Compared to standard cutting edges

# FACTORY EQUIPPED TO TAKE ON THE TRASH



---

## TOUGH ON TRASH

Factory-installed guarding and seals help protect the machine from impact, wrapping and airborne debris. High-debris cab has impact-resistant polycarbonate doors and dual pane windows to eliminate the need for door screens.

---

## COOLING AND CLEANOUT

High-debris cooling system has automatic reversing fan and slots for easy cleanout. Trash-resistant radiator helps reduce plugging. Laminated thermal shields on the engine and aftertreatment provide added protection in high-debris environments.

---

## OPTIMIZED FOR PERFORMANCE

Specialized landfill blades include a trash rack for more capacity when working in lighter material. Heavy Duty Extended Life undercarriage has Kevlar-guarded sealed idlers to help protect against seal damage from wrapping. Center-hole track helps eject debris.

## EQUIPPED FOR THE JOB

Choose from a variety of factory options for added protection in harsh applications like forestry and pipe line.



# YOUR DOZER, YOUR WAY **BUILD TO SUIT**

Sweeps, door/window screens, debris-resistant cab, heavy guarding and more – pick from a variety of options that help protect your operator and your equipment investment. Heavier C-frame for angle blades adds durability and Positive Pin Retention Track is ideally suited for higher-impact conditions. Factory connections make it easy to fit the machine with a ripper or a dealer-installed winch. Consult with your Cat dealer to learn more about the right options for the work you do.

# MORE THAN MACHINES

BUILT AROUND YOUR SUCCESS

When you buy Cat equipment, you get so much more than the machine. You also get the support of a best-in-class dealer network, backed by a range of flexible solutions, technology, tools and more.



## CUSTOMER VALUE AGREEMENTS

A Customer Value Agreement (CVA) from your Cat dealer helps you do more and worry less. A CVA simplifies machine ownership and maintenance, adds the security of expert dealer support and gives you the peace of mind from effective equipment health management.

## REPAIR OPTIONS

A broad range of repair options give you choices that work with your needs, budget and timeline. Every repair is performed by expert Cat technicians. You'll receive smart repair advice, a timely, accurate quote and service that gets your machine back into action quickly.

## GENUINE CAT PARTS

Genuine Cat Parts deliver the highest level of reliability and productivity. Order direct from your Cat dealer or shop online at [parts.cat.com](http://parts.cat.com).

## FINANCIAL SERVICES

Count on Cat Financial to provide the best finance and extended protection solutions for your business. For more than 30 years, we have helped our customers succeed through financial service excellence.

## GET BACK TO WORK

Services to help you save time, save money and get back on the job.

### CAT INSPECT

Access your equipment data on your mobile device. This easy-to-use app lets you capture inspection data and integrates with your other Cat data systems, so you can keep a close eye on your fleet.

### HYDRAULICS AND HOSE

Whether you choose new, Reman, exchange or rebuilt hydraulic components, you'll get expert diagnostics, testing and contamination control. Cat Hose Service offers hoses and couplings for most makes and models.

### CERTIFIED REBUILD

Get a full second machine life at a fraction of the cost of buying new. With upgraded features, safety enhancements and the latest technologies, your old machine will perform even better than it did when it rolled off the line.

# TECHNICAL SPECIFICATIONS

See [cat.com](http://cat.com) for complete specifications.

ENGINE			
Powertrain	Fully Automatic 4-Speed		
Engine	Cat® C9.3B		
Emissions	U.S. EPA Tier 4 Final, EU Stage V, Japan 2014, Korea Stage V, China Nonroad Stage IV		
Net Power (2,200 rpm)			
ISO 9249/SAE J1349	197 kW	265 hp	
ISO 9249 (DIN)	268 mhp		
<ul style="list-style-type: none"> <li>• Net power advertised is the power available at the engine flywheel when the engine is equipped with a fan, air cleaner, clean emissions module and alternator.</li> <li>• Advertised power is tested per the specified standard in effect at the time of manufacture.</li> <li>• Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to:               <ul style="list-style-type: none"> <li>• 20% biodiesel FAME (fatty acid methyl ester)*</li> <li>• 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels</li> </ul> </li> </ul> <p>Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.</p> <p>* Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).</p>			

BLADE	CAPACITY	WIDTH
Standard Semi-Universal (SU)	7.4 m³   9.7 yd³	3500 mm   138.0 in
LGP Straight (S)	6.2 m³   8.1 yd³	4150 mm   163.0 in
Standard Angle (A)	4.2 m³   5.4 yd³	4320 mm   170.0 in
LGP Angle (A)	4.7 m³   6.2 yd³	4770 mm   188.0 in
Standard Universal (U)	8.6 m³   11.2 yd³	3788 mm   149.0 in
Standard U-Landfill	16.6 m³   21.7 yd³	3788 mm   149.0 in

SERVICE REFILL CAPACITIES			
Fuel Tank	465.0 L	122.8 gal	
Diesel Exhaust Fluid (DEF) Tank	44.0 L	11.6 gal	

AIR CONDITIONING SYSTEM	
<p>The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.36 kg of refrigerant which has a CO<sub>2</sub> equivalent of 1.946 metric tonnes.</p>	

	DIMENSIONS*					
	Standard SU		LGP S		Waste Handler	
Track Gauge	1981 mm	78.0 in	2235 mm	88.0 in	1981 mm	78.0 in
Width of Standard Shoe	610 mm	24.0 in	915 mm	36.0 in	610 mm	24.0 in
Width of Tractor (without trunnions)	2591 mm	102.0 in	3150 mm	124.0 in	2591 mm	102.0 in
Machine Height (to ROPS)	3354 mm	132.0 in	3354 mm	132.0 in	3354 mm	132.0 in
Machine Height (to ROPS) including grouser height	3436 mm	135.3 in	3428 mm	135.0 in	3436 mm	435.3 in
Length of Track on Ground	2972 mm	117.0 in	3200 mm	126.0 in	2972 mm	117.0 in
Length of Basic Tractor	4659 mm	183.4 in	4659 mm	183.4 in	4659 mm	183.4 in
With the following attachments, add to basic tractor length						
SU Blade	1125 mm	44.0 in			1125 mm	44.0 in
S Blade			840 mm	33.0 in		
U Blade	1365 mm	54.0 in			1365 mm	54.0 in
Landfill Blade	1125 mm	44.0 in	840 mm	33.0 in	1125 mm	44.0 in
Drawbar	260 mm	10.2 in	270 mm	10.6 in	260 mm	10.2 in
Ripper	1555 mm	61.2 in	1565 mm	61.6 in	1555 mm	61.2 in
Winch	735 mm	28.9 in	745 mm	29.3 in	735 mm	28.9 in

\*Heavy Duty Undercarriage

# STANDARD & OPTIONAL EQUIPMENT

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

POWER TRAIN	STANDARD	OPTIONAL
Fully automatic 4-speed transmission with lock-up clutch	•	
Cat C9.3B diesel engine	•	
Double reduction 3-planet planetary final drives	•	
Electric fuel priming pump	•	
OPERATOR ENVIRONMENT	STANDARD	OPTIONAL
Fully redesigned cab, sound suppressed, with Integrated ROPS and FOPS	•	
Dual pane/polycarbonate window Special Application Cab		•
Full-color 254 mm (10 in) liquid crystal touchscreen main display	•	
Integrated rearview camera	•	
Adjustable operator controls/armrests	•	
Cab-mounted modular HVAC system	•	
Added storage areas	•	
Electrohydraulic implement and steering controls	•	
Cloth seat	•	
Deluxe leather heated/ventilated seat		•
Communication radio ready		•
Lights – 6 LED	•	
Premium lights – 12 LED		•
Integrated warning lights		•
BLADES	STANDARD	OPTIONAL
Semi-Universal		•
Universal		•
Straight blade		•
Angle blade		•
Waste/Landfill		•
UNDERCARRIAGE	STANDARD	OPTIONAL
Heavy Duty (HDXL with DuraLink™)	•	
Moderate Service track shoes	•	
Extreme Service track shoes		•
HYDRAULICS	STANDARD	OPTIONAL
Independent steering and implement pumps	•	
Load-sensing hydraulics	•	

CAT TECHNOLOGY	STANDARD	OPTIONAL
Slope Indicate	•	
<b>ARO with Assist Package</b>		
- ARO		
- Slope Assist		
- Steer Assist		•
- Stable Blade		
- Blade Load Monitor		
- Traction Control		
- AutoCarry		
<b>Grade 3D with Assist Package</b>		
- Full-color 10-inch (254 mm) touchscreen grade display		
- Steer Assist 3D		•
- Grade receivers and antennas		
- Grade Software Enabled Attachment (SEA)		
- ARO with Assist package features		
Third Party Grade Control Ready Cab	•	
Compatibility with radios and base stations from Trimble, Topcon, and Leica	•	
Capability to install 3D grade systems from Trimble, Topcon, and Leica	•	
Product Link™, Cellular	•	
Product Link – Dual Cellular/Satellite		•
Remote Flash/Troubleshoot	•	
Operator ID	•	
Machine Security – Passcode	•	
Machine Security – Bluetooth®		•
Remote Control Ready	•	
Cat Command for Dozing		•
SERVICE AND MAINTENANCE	STANDARD	OPTIONAL
Fast fuel fill	•	
Shovel holder	•	
Ground-level service center	•	
30-minute cab removal	•	
Quick access cab floor		•
Ecology drains	•	
High-speed oil change		•
Underhood work light	•	
ATTACHMENTS	STANDARD	OPTIONAL
Multi-shank ripper		•
Winch		•
Drawbar		•
Side screens		•
Rear screen – hinged or fixed		•
Sweeps		•

Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area. For additional information, refer to the Technical Specifications brochures for the D7 available at [www.cat.com](http://www.cat.com) or your Cat dealer.



オフロード法2014年  
基準適合

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).

VisionLink is a trademark of Caterpillar Inc., registered in the United States and in other countries.

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, Product Link, DEO-ULS, "Caterpillar Corporate 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.

[www.cat.com](http://www.cat.com) [www.caterpillar.com](http://www.caterpillar.com)

Based on the Labor, Safety and Health Laws in Japan, employers of small construction equipment are required to provide specific training for all operators on machines with machine weight less than 3 metric tons. For machines greater than 3 metric tons, operator needs to obtain operator license certification from a government-approved registered training school.

AEXQ3002-02  
Build Number: 17A  
(Aus-NZ, Chile, China, Europe,  
Japan, N Am, S Korea, Turkey)

