

## RESOURCEFUL IN EVERY WAY

*Designed to do more work while consuming fewer resources ... good for business and good for the planet.*

- Burns 10% to 30% less fuel per hour than D7R Series 2
- Less fuel burned means reduced emissions
- More efficient – 25% more material moved per gallon of fuel
- Fewer parts and longer component life, less fuel and fluids, means less to replace and less to dispose of
- Major structures and components are built to be rebuilt, reducing waste and replacement costs
- Reduced operator and spectator noise levels

## WHEN YOUR BUSINESS IS THE EARTH, IT PAYS TO TAKE CARE OF BUSINESS

The Cat® D7E with electric drive is a truly innovative tractor designed to maximize efficiency and productivity while conserving our natural resources. To learn more about these benefits of the D7E and more, contact your local Cat dealer or visit [www.cat.com/D7E](http://www.cat.com/D7E).

Cat® Engine Model	C9.3 ACERT™	
Net Power – SAE J1349	235 hp	175 kW
Gross Power	252 hp	188 kW

Drivetrain	Electric Drive	
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Weights		
Operating Weight STD SU	56,669 lb	25 700 kg
Operating Weight LGP S	62,115 lb	28 170 kg
Shipping Weight STD	47,619 lb	21 600 kg
Shipping Weight LGP	52,866 lb	23 980 kg

# D7E

## ELECTRIC DRIVE TRACK TYPE TRACTOR

### Reference Guide

Introducing the new Cat® D7E – a mid-size track type tractor powered by a revolutionary AC electric drive system. This truly innovative design delivers powerful dozing performance and precise maneuverability, while burning less fuel and reducing overall lifetime owning and operating costs.



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**CATERPILLAR®**  
TODAY'S WORK. TOMORROW'S WORLD.™

[www.cat.com/D7E](http://www.cat.com/D7E)

**CATERPILLAR®**

## FIRST-OF-ITS-KIND ELECTRIC DRIVE

*Innovative Diesel-Electric hybrid technology*

- A powerful Cat C9.3 ACERT™ engine turns an electric generator that efficiently converts mechanical energy into AC electrical current.
- Electrical current from the generator flows through specially armored cables and military-grade connectors to a solid-state power inverter. Advanced electronics send AC current to the propulsion module to control the motors and provides DC current for the accessory system.
- The propulsion module delivers well-modulated torque via axles to the final drives. Consisting of state-of-the-art AC electric motors—and connected to the D7E's updated differential steering system—the propulsion module has no moving electrical contacts and few moving mechanical parts.
- All electrical components are fully sealed to safely operate in a wide range of dozing conditions. Liquid cooling ensures that the electric drive components deliver peak performance in extreme temperature conditions.

### Electric Drive Key Benefits

- Electric drive components deliver longer life and require reduced lifetime service and maintenance
- No gears to shift means smooth, efficient performance
- Power and maneuverability combine for unmatched versatility
- Accessory systems – modular heating and air conditioning system, water pump and battery charger are electrically powered for maximum reliability in varied conditions
- Automatic power management for pushing power without stalling
- Beltless system – no engine belts to repair or replace

# Cat® D7E with Electric Drive

## Innovative from the inside out

### Diesel-Electric hybrid technology

**10% lower**  
lifetime operating costs

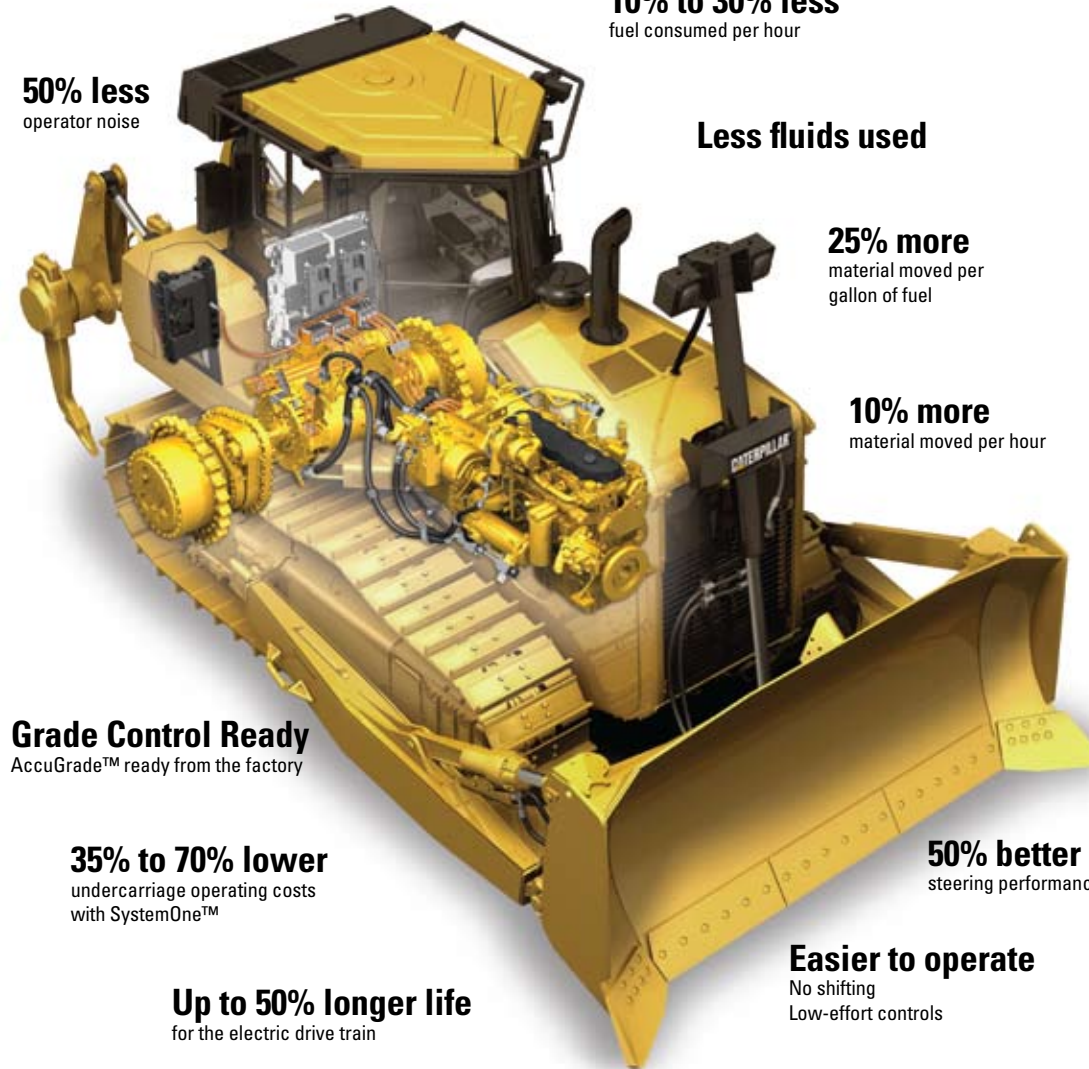
**10% to 30% less**  
fuel consumed per hour

**50% less**  
operator noise

### Less fluids used

**25% more**  
material moved per  
gallon of fuel

**10% more**  
material moved per hour



**Grade Control Ready**  
AccuGrade™ ready from the factory

**35% to 70% lower**  
undercarriage operating costs  
with SystemOne™

**50% better**  
steering performance

**Up to 50% longer life**  
for the electric drive train

**Easier to operate**  
No shifting  
Low-effort controls

**60% fewer moving parts**  
in the electric drive train

**Less down time**  
No engine belts

## ALL NEW CAB

*Improved comfort, visibility and safety are built in*

- Center post design for maximum visibility
- More room and overall comfort
- Ergonomic, fully adjustable controls
- Quiet 73 dB(A) cab
- Wider doors for easier cab access
- All around better visibility for improved productivity and jobsite safety

## LOW DRIVE UNDERCARRIAGE

*Best match for a wider range of applications*

- Advanced low drive design for greater machine versatility
- Heavy roller frame and final drive design to handle impact loads
- Optional SystemOne™ undercarriage for reduced owning and operating costs
- Easier undercarriage clean out and service access

## UPGRADED SYSTEMS

*Innovative D7E design features enhance performance*

- Single lift cylinder and L-shaped push arm design offers performance and stability with fewer components
- Grade control ready from the factory – wiring and mountings pre-installed for easy installation of Cat AccuGrade™ system
- Modular air conditioning system eliminates long coolant lines and engine mounted compressor for better performance
- Distributed electro-hydraulics system enables faster cycle times and enhances response for AccuGrade system

## SERVICEABILITY

*Convenient access to keep you up and running*

- Tilt cab for easy access to electric drive components
- Grouped daily service points and wide access panels for more efficient daily maintenance
- Advanced diagnostics with in-cab Cat message display
- Backed by outstanding support from the worldwide Cat Dealer network