

D7E WH

Waste Handler



Engine

| | | |
|----------------------------|-----------------------------------|--------|
| Engine Model | Cat® C9.3 ACERT™ | |
| Global Emissions | U.S. Tier 4 Interim/EU Stage IIIB | |
| Net Power – ISO 9249 | 175 kW | 235 hp |
| Net Power – ISO 9249 (DIN) | | 238 hp |
| Net Power – SAE J1349 | 175 kW | 235 hp |

Drive Train

| | | |
|---------------------------------|----------------|-----------|
| Type | Electric Drive | |
| Weights | | |
| Operating Weight – WHA SU Blade | 28 908 kg | 63,730 lb |
| Operating Weight – WHA U Blade | 29 103 kg | 64,160 lb |
| Operating Weight – LGP WHA | 31 116 kg | 68,600 lb |

D7E WH Features

Electric Drive Powertrain

The revolutionary electric drive system delivers excellent dozing efficiency and performance while consuming considerably less fuel and fewer parts to reduce lifetime owning and operating costs.

Operator Station

Center post cab design offers more space, all-around visibility and reduced noise levels.

ACERT™ Engine Technology

Cat® C9.3 engine with ACERT™ Technology powers an electric generator that efficiently converts mechanical energy into AC electrical current. The engine is integrated with a Cat aftertreatment solution to meet U.S. EPA Tier 4 Interim/ EU Stage IIIB emission standards.

Waste Specific Guarding

More than any other equipment manufacturer, Caterpillar offers guarding solutions that provide protection and support uptime in debris-filled, waste applications.

Serviceability

Tilt cab provides easy access to drive system components, hydraulic pumps and lines. Grouped service points and large access doors facilitate easy daily maintenance. A Reversing Fan helps remove debris and is designed for ease of serviceability.

Sustainability

Designed to do more work while consuming fewer resources and emitting fewer emissions – good for the landfill business and good for the planet.

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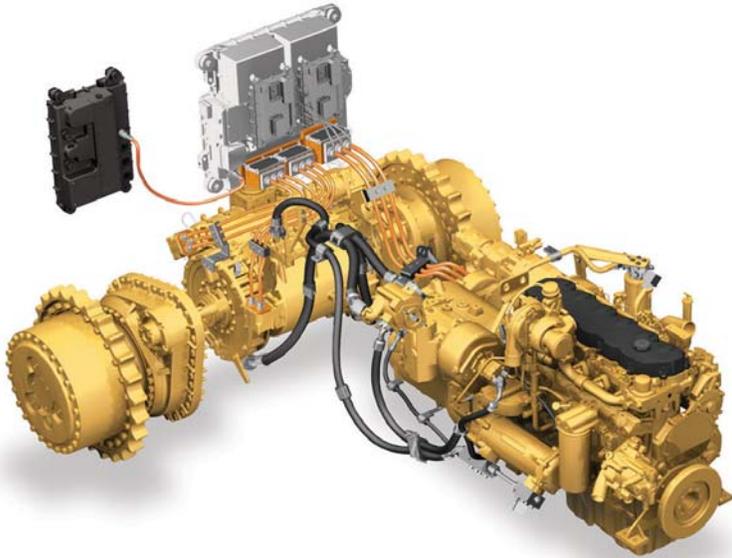


Like all Cat® waste handlers, the D7E is a heavy-duty machine with specialized guarding designed just for waste handling applications. Its versatility makes it a powerful and highly maneuverable machine for dozing and compacting waste, as well as an ideal fine grading machine to place just the right depth of cover material.

Landfills play a crucial role in managing the quality of our air, water, soil ... even the quality of our lives. Putting an innovative, conservation-minded track-type tractor to work on the landfill just makes sense. With its diesel-electric drive technology, the D7E is designed to do more work, while using less fuel and resources than conventional models. The D7E Waste Handler meets U.S. EPA Tier 4 Interim/EU Stage IIIB emission standards.

Engine and Powertrain

Innovative Electric Drive

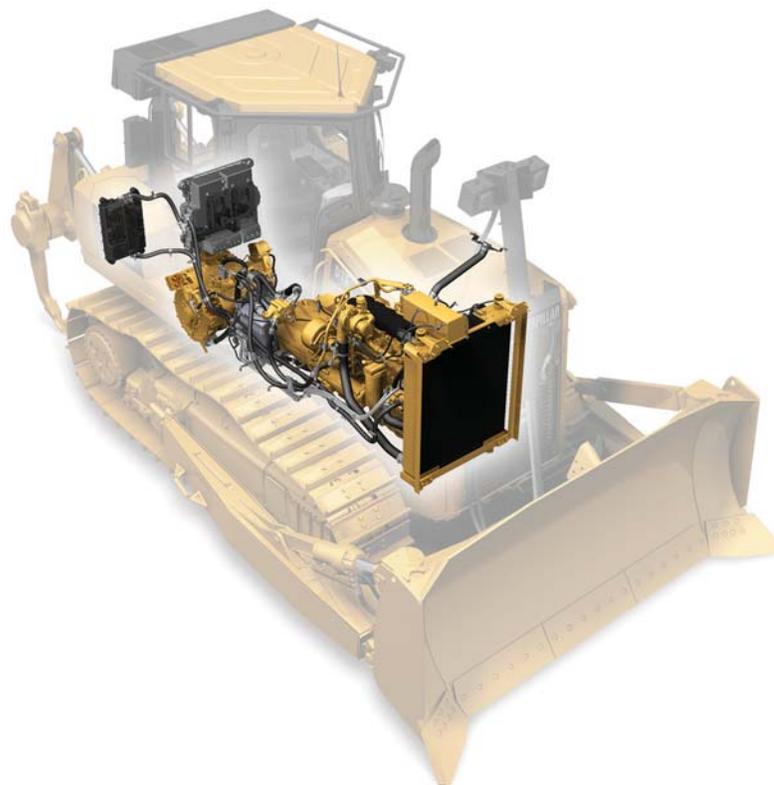


The D7E uses an innovative Electric Drive system for improved productivity and efficiency. The D7E uses 10–30 percent less fuel than the previous D7 model – as well as fewer parts and fluids – to help reduce overall owning and operating costs. All electrical components are fully sealed to safely operate in a wide range of dozing conditions. Liquid cooling ensures that the electric drive components deliver peak performance in extreme temperature conditions. The D7E is highly maneuverable and infinitely variable speed control means there are no gears to shift. The efficient diesel-electric drivetrain allows the engine to operate in a tighter RPM range, 1,500–1,800 rpm, which helps extend engine life and improve fuel economy. A Cat C9.3 ACERT™ engine and Cat Clean Emissions Module aftertreatment meet U.S. EPA Tier 4 Interim/EU Stage IIIB emissions standards.

Cooling

Efficient and easy to service

The D7E uses a three-part cooling system that includes a rugged, highly efficient aluminum bar plate radiator. A larger gap between fins reduces plugging, and the single-plane design allows for easier cleaning and service. In cooler conditions, a hydraulically driven demand fan reduces speed to conserve power and reduce fuel consumption. An automatic Reversing Fan can be set to change air flow direction, efficiently removing debris from the cooling cores and engine enclosure without the operator leaving the cab. Roof-mounted air conditioning removes the condenser unit from under the hood. This helps reduce heat load, improves cleaning access and increases ambient capability.





Emissions Technology

Reliable, integrated solutions

Cat NOx Reduction System

The Cat NOx Reduction System captures and cools a small quantity of exhaust gas, then routes it into the combustion chamber where it drives down combustion temperatures and reduces NOx emissions.

Aftertreatment Technologies

To meet Tier 4 Interim/Stage IIIB emissions standards and beyond, Cat aftertreatment components have been designed to match application needs. System components include a **Diesel Oxidation Catalyst (DOC)**, which uses a chemical process to convert regulated emissions in the exhaust system, and a **Diesel Particulate Filter (DPF)** that traps particulate matter that is carried into the exhaust stream.

The DOC, DPF and Cat Regeneration System are contained in a Caterpillar designed Clean Emissions Module (CEM) that protects the components, minimizes the aftertreatment footprint and simplifies maintenance. For waste handling and other high debris applications that require thermal shields on exhaust components, an insulated CEM is available for the D7E.

Cat Regeneration System

The Cat Regeneration System is designed to work transparently, without any interaction needed from the operator. Under most operating conditions, engine exhaust is hot enough to oxidize soot through passive regeneration. If supplemental regeneration is needed, the Cat Regeneration System elevates exhaust gas temperatures to burn off soot in the Diesel Particulate Filter (DPF). This is a process that happens automatically, but the operator can initiate the cycle when convenient or interrupt regeneration as needed. A soot level monitor and regeneration indicator lights are integrated into the D7E dash display.

Key Off Regeneration – Optional Key Off Regeneration allows the operator to initiate a regeneration cycle after the key has been turned off. If a cycle takes place, the engine will complete regeneration, followed by a cool down period prior to shutting down.

Delayed Engine Shutdown – Delayed Engine Shutdown feature is available to allow the machine to cool immediately after a heavy work load or regeneration cycle.

Engine Idle Shutdown Timer – An optional Engine Idle Shutdown timer will sound a warning and shut down the engine after the machine has been idling for a pre-set period of time.

Structures

Heavy duty performance for waste applications



The D7E's structures are purpose built of high-quality steel and box section construction. When it comes to structures, Caterpillar is thorough, with application specific, finite element analysis at initial design, followed by prototype shake table testing, and finally pilot machine testing prior to production. The results are long-life structures built for loads associated with quick directional changes, extreme slopes and heavy-duty pushing or pulling.

In addition to the rugged structures found on standard Cat dozers, waste handling machines feature added guarding and striker bars to help protect the machine from debris wrapping, impact and abrasion. The D7E Waste Handler is designed from the inside out to withstand demolition debris and the hard knocks of the waste pile.

Undercarriage

Equipped for the job

D7E waste handlers come with two undercarriage options, low ground pressure (LGP) or standard gauge. LGP machines provide flotation in soft underfoot conditions and stability on extreme slopes. The standard width option has greater compacting and shredding characteristics with the narrower shoe providing greater ground pressure.

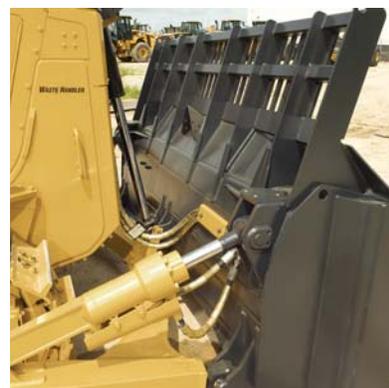
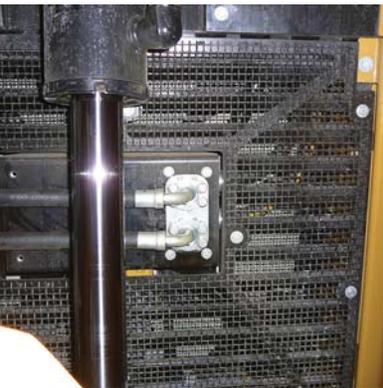
Caterpillar offers a wide variety of shoes, but for landfill applications, recommends a trapezoidal hole shoe when working in trash. The design of this shoe allows it to shed waste that can otherwise cause accelerated internal track wear.

- Trapezoidal hole shoes with 609.6 mm/24 inches of width
- Trapezoidal hole shoes for low ground pressure configurations are 914.4 mm/36 inches wide.



Waste Handling Guarding and Seals

A commitment of long life and quality for our waste handling customers



With a full line of waste handling equipment, Caterpillar has the experience and design know-how to keep machines running in waste. Cat Waste Handlers are designed with seals and guarding that are critical to the life of your investment and keeping the D7E productive in this application.

- Radiator Grill – heavy-duty guard protects the radiator, angled to deflect debris and hinged for convenient clean out
- Radiator Grill Screen – tight mesh to prevent debris from entering coolers and radiator
- Perforated and corrugated engine compartment doors safeguard cooling performance
- Insulated Cat Clean Emissions Module
- Rear striker bars – removes and prevents debris from traveling up the track, protecting the cab, fenders and fuel tank
- Idler and pivot shaft seal guards – prevent damage caused by wrapping wire or waste contaminants
- Chassis and bottom guarding against impact loads
- Angled track roller frame guards enhance cleanout and reduce debris build-up (Available for D7E WH standard configuration)
- Fuel tank guarding also protects the hydraulic tank and battery box against damage
- Dozer blade hydraulic line protection with a rotating sleeve design that protects lines while shedding debris
- Track guide guards provide track alignment on slopes
- Clamshell and Kevlar seals – new final drive seal protection comprised of heavy-duty cast guards, stepped labyrinths and Kevlar seals to protect final drives and their Duo-Cone® seals
- Cat Turbine Precleaner with screen – delivers clean air and provides longer filter life
- Thermal Shield Arrangement – lowers skin temperature of exhaust components and provides cooling to the turbo bearings
- Black hood and lift cylinder cut glare during night shifts
- Solid bar handholds hold their form and offer three points of contact on and off the machine
- Chassis Sealing – extensive rubber, foam, and steel sealing components prevent debris from entering the engine and transmission compartments



Optional Waste Handling Attachment

Recommended attachments for improved performance in landfill applications,

Following are features that are optional but can improve machine performance, life or operator comfort in waste applications.

- Trapezoidal hole track shoe design allows debris to be extruded from the link box, reducing the risk of packing and chain stretching
- Front striker bars – deflects debris being carried up the front of the track when in reverse, reducing risk of cab damage
- Enhanced clean air module increases cab air pressure to help keep dust out and provide additional air filtration, greatly increasing cab air filter life
- High intensity discharge lighting with additional lamps for optimum visibility under low light conditions
- Cab roof-mounted strobe light indicating the machine is operational
- Rear Vision Camera – display mounted in the front of the cab helps the operator more easily see behind the machine, enhancing overall visibility and safety
- Cab door screens protect the lower half of the glass doors from demolition debris, while allowing good visibility to the blade
- A new ladder is available to enhance access for manual refueling and cleaning the rear window

Operator Station

Unprecedented all-around visibility and comfort



A quiet, spacious cab offers outstanding visibility and low-effort controls for operator efficiency and comfort. The seat is fully adjustable, with the gauge cluster and integrated messenger display situated directly in front of the operator. The ROPS-mounted modular heating, ventilation and air conditioning system is self contained and powered by electrical current to maintain maximum cooling efficiency even when the machine is idling. Speed recall allows the operator to pre-set the desired forward and reverse speed, then resume that speed with the touch of a button. An optional camera attachment can be mounted to the rear of the machine for even better visibility, and an optional cab-roof strobe light is active until the battery disconnect is turned off.

Sustainability

Resourceful in every way

The D7E is designed to maximize efficiency and productivity while conserving natural resources.

- Uses 10 – 30 percent less fuel per hour than previous models. Less fuel burned means reduced emissions. Quieter electric drive reduces sound for the operator and nearby residents.
- The D7E earned a 2009 Clean Air Excellence Award from the U.S. Environmental Protection Agency.
- 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.



Work Tools

Application specific designs for dependable performance

Caterpillar offers four landfill blades, ripper and winch options to meet site specific requirements.

Semi Universal Landfill Blade with Wear Plate

The semi universal blade is designed for high capacity loading, load retention and material penetration. For landfill applications, it carries a ½ inch wear plate on moldboard center sections and wings and an integrated 610 mm/24 inch trash rack. With the rack, this blade has a capacity of 14 cubic meters or 18.4 cubic yards.

Universal Landfill Blade with Wear Plate

The universal blade is designed with wings on each side of the blade to carry large loads, longer distances. With its unique cutting edge design, this blade is best suited to stockpile work in lighter material which makes it an excellent landfill blade. For landfill applications, it carries a ½ inch wear plate on moldboard center sections and wings and an integrated 610 mm/24 inch trash rack. With the rack, this blade has a capacity of 16.8 cubic meters or 22 cubic yards.

Low Ground Pressure (LGP) Straight Blade with Wear Plate

This straight blade is wider to accommodate the wider shoes of the LGP undercarriage. It easily handles heavy or bank materials. For landfill applications, it carries a ½ inch wear plate on moldboard center sections and wings and an integrated 610 mm/24 inch trash rack. With the rack, this blade has a capacity of 12.3 cubic meters or 16.1 cubic yards.

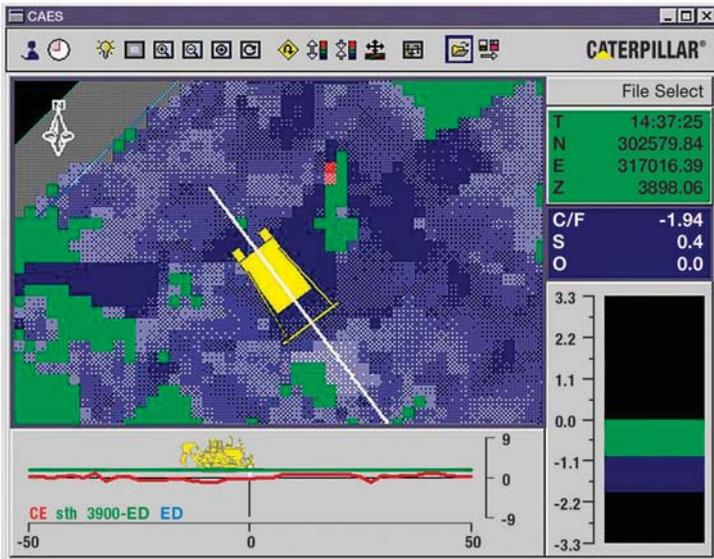
Ripper

Multi-shank rippers can make short work of excavating cover material or preparing for new cell construction. The D7E has cast-in ripper mounts allowing a ripper to be mounted quickly and easily.

Winch

A hydraulic winch with positive load control, variable speed and dual braking can pull trucks, equipment or debris with a single lever control in the cab.





Integrated Technologies

Solutions to make work easier and more efficient

Computer Aided Earthmoving System (CAES)

The Computer Aided Earthmoving System (CAES) is a high-technology landfill tool that allows machine operators to hold tighter grades/slopes, and conserve valuable airspace and cover soil without stakes and crews. Using Global Navigation Satellite System (GNSS) technology, machine mounted components, a radio network and office management software, this system delivers real-time information on an in-cab display. Additionally, CAES permits the identification of site specific storage areas such as hazardous waste, medical, industrial, organic, and other materials which require special handling or a record of their placement.

AccuGrade™

AccuGrade™ is a dealer installed machine control and guidance system that uses Laser, Global Navigation Satellite System (GNSS) and/or Universal Tracking Station (UTS) technology, machine-mounted components and off-board hardware. This system provides accurate blade positioning information and automatics for greater efficiency. The D7E Waste Handler is Grade Control Ready, with deeply integrated harnesses incorporated into the machine during assembly. It can also be ordered AccuGrade Ready, with optional brackets and hardware installed, making the tractor ready to plug in the dealer installed AccuGrade system.

Cat Product Link

Remote monitoring with Product Link improves overall fleet-management effectiveness. Product Link is deeply integrated into machine systems. Events and diagnostic codes, as well as hours, fuel, idle time and other detailed information are transmitted to a secure web based application, VisionLink™. VisionLink includes powerful tools to convey information to users and dealers, including mapping, working and idle time, fuel level and more.

Serviceability and Customer Support

When uptime counts

Designed for Serviceability

The D7E redefines serviceability. With easy access to service points and longer service intervals, the D7E can significantly reduce total owning and operating costs.

A tilt cab allows easy access to modular major components, such as generator, propulsion module, power electronics and hydraulics. The heating, ventilation and air conditioning (HVAC) system is self contained for improved performance, increased service intervals and ease of serviceability.

Service points are grouped on the left side of the machine for quick and easy routine maintenance. Ground-level sight gauges provide quick and easy inspection of fluid levels. Modular final drives can be easily accessed and serviced.

Ground Level Service Center

The new ground level service center is accessible on the left hand fender without setting foot on the machine, giving easy access to the battery disconnect, remote engine shutdown and optional access light switches. It also houses an LED warning indicator showing that the powertrain and accessory systems are energized. When the systems are de-energized and safe for maintenance, the indicator turns off.

Renowned Cat Dealer Support

From helping you choose the right machine to knowledgeable ongoing support, Cat dealers provide the best in sales and service. Manage costs with preventive maintenance programs like Custom Track Service, Scheduled Oil Sampling (S·O·SSM) analysis, and guaranteed maintenance contracts. Stay productive with best-in-class parts availability. Cat dealers can even help you with operator training to help you boost profits.

And when it's time for machine replacement, your Cat dealer can help you save even more with Genuine Cat Remanufactured parts. Receive the same warranty and reliability as new products at cost savings of 40 to 70 percent for powertrain and hydraulic components.



D7E Waste Handler Specifications

Engine

| | | |
|----------------------------------|---------------------------------------|---------------------|
| Engine Model | Cat® C9.3 ACERT™ | |
| Global Emissions | U.S. Tier 4 Interim/ EU Stage IIIB | |
| Gross Power – SAE J1995 | 193 kW | 259 hp |
| Gross Power – ISO 14396 | 191 kW | 256 hp |
| Gross Power – ISO 14396 (DIN) | | 260 hp |
| Net Power – ISO 9249 | 175 kW | 235 hp |
| Net Power – ISO 9249 (DIN) | | 238 hp |
| Net Power – SAE J1349 | 175 kW | 235 hp |
| Bore | 115 mm | 4.5 in |
| Stroke | 149 mm | 5.9 in |
| Displacement | 9.3 L | 567 in ³ |

- Ratings at 1,700 rpm.
- Net power advertised is the power available at the flywheel when engine is equipped with fan, air cleaner, and muffler.
- No derating required up to 3200 m (10,500 ft) altitude, beyond 3200 m (10,500 ft) automatic derating occurs.

Service Refill Capacities

| | | |
|----------------------------|-------|----------|
| Fuel Tank | 409 L | 108 gal |
| Cooling System | 87 L | 22.5 gal |
| Engine Crankcase | 30 L | 8 gal |
| Powertrain | 60 L | 16 gal |
| Final Drives (each) | 28 L | 7 gal |
| Final Drive (LGP each) | 34 L | 9 gal |
| Pivot Shaft Compartment | 7 L | 1.8 gal |
| Hydraulic Tank | 76 L | 20 gal |
| Hydraulic Tank | 76 L | 20 gal |

Weights

| | | |
|------------------------------------|-----------|-----------|
| Operating Weight – WHA SU Blade | 28 908 kg | 63,730 lb |
| Operating Weight – WHA U Blade | 29 103 kg | 64,160 lb |
| Operating Weight – LGP WHA | 31 116 kg | 68,600 lb |
| Shipping Weight – WHA | 24 143 kg | 53,225 lb |
| Shipping Weight – LGP WHA | 26 718 kg | 58,900 lb |

- Operating Weight includes blade, lubricants, coolant, full fuel tank, standard track, ROPS/FOPS cab, drawbar and operator.
- Shipping Weight includes lubricants, coolant, ROPS/FOPS cab, standard track and 10% fuel.

Hydraulic Controls – Pump

| | | |
|---------------------------------------|----------------------------------|--------------|
| Pump Output – Steering | 312 L/min | 82.4 gal/min |
| Pump Output – Implement | 200 L/min | 52.8 gal/min |
| Lift Cylinder Flow | 190 L/min | 42 gal/min |
| Ripper Cylinder Flow | 190 L/min | 42 gal/min |
| Pump Type | Piston, Variable Displacement | |
| Tilt Cylinder Flow – Head End Flow | 93 L/min | 24.6 gal/min |
| Tilt Cylinder Flow – Rod End Flow | 66 L/min | 17.4 gal/min |

Hydraulic Controls – Main Relief Valve

| | | |
|--------------------------------|------------|-----------|
| Pressure Setting – Steering | 27 600 kPa | 4,000 psi |
|--------------------------------|------------|-----------|

- Rated Implement Pump Speed 2,006 rpm.
- Rated Steering Pump Speed 2,516 rpm.

Hydraulic Controls – Maximum Operating Pressure

| | | |
|----------------|------------|-----------|
| Bulldozer | 27 600 kPa | 4,000 psi |
| Tilt Cylinder | 27 600 kPa | 4,000 psi |
| Ripper (Lift) | 27 600 kPa | 4,000 psi |
| Ripper (Pitch) | 27 600 kPa | 4,000 psi |
| Steering | 41 000 kPa | 5,950 psi |

Rippers

| | | |
|----------------------------------------------------------------------|-----------------------------------|-----------|
| Type | Multi-Shank | |
| Number of Pockets | 3 | |
| Overall Beam Width | 2088 mm | 82.2 in |
| Beam Cross Section | 355 mm | 14.0 in |
| Maximum Clearance Raised (under tip, pinned in bottom hole) | 588 mm | 23.1 in |
| Maximum Penetration | 650 mm | 25.6 in |
| Maximum Penetration Force | 87.4 kN | 19,639 lb |
| Pryout Force | 234.4 kN | 52,695 lb |
| Weight – with One Shank | 1650 kg | 3,572 lb |
| Each Additional Shank | 150 kg | 330 lb |
| Ramp Angle | 26 Degrees | |
| Pocket Spacing | 900 mm | 35.4 in |
| Shank Gauge | 1800 mm | 70.9 in |
| Shank Section | 72 mm × 228 mm 2.8 in × 9.0 in | |

Winch

| | | |
|------------------------------------|------------------------------------|------------|
| Winch Model | PA90 | |
| Weight* | 1520 kg | 3,350 lb |
| Oil Capacity | 12 L | 3.2 gal |
| Winch and Bracket Length | 1115 mm | 93.9 in |
| Winch Case Length | 1110 mm | 43.7 in |
| Winch Case Width | 826 mm | 32.5 in |
| Increased Tractor Length – STD | 1032 mm | 93.9 in |
| Increased Tractor Length – LGP | 1032 mm | 93.9 in |
| Drum Diameter | 318 mm | 12.5 in |
| Drum Width | 226 mm | 8.9 in |
| Flange Diameter | 610 mm | 24 in |
| Drum Capacity – 24 mm (1 in) | 62 m | 203 ft |
| Drum Capacity – 29 mm (1.13 in) | 56 m | 185 ft |
| Ferrule Size (O.D. × Length) | 60 mm × 65 mm 2.38 in × 2.56 in | |
| Winch Drive | Hydraulic | |
| Control | Electronic/Hydraulic | |
| Installed Weight | 1520 kg | 3,350 lb |
| Winch Length | 1115 mm | 43.9 in |
| Overall Width | 1090 mm | 43 in |
| Throat Clearance | 218 mm | 8.6 in |
| Rope Diameter (recommended) | 25 mm | 1 in |
| Cable Ferrule Size (O.D. × Length) | 60 mm × 65 mm 2.38 in × 2.56 in | |
| Maximum Bare Drum Line Pull | 400.3 kN | 90,000 lb |
| Maximum Bare Drum Line Speed | 21 m/min | 70 ft/min |
| Maximum Full Drum Line Pull | 253.5 kN | 57,000 lb |
| Maximum Full Drum Line Speed | 35 m/min | 116 ft/min |

* Basic winch weight, mounting arrangement, hydraulic and electrical system weight.

Standards

| | |
|-----------|-----------------------------------------------------------|
| ROPS/FOPS | SAE 1040, ISO 3471-1994/ ISO 3449-2005, SAE 5231 |
| Brakes | ISO 10265 2008 |
| Cab | ANSI/SAE J1166 OCT 98 |

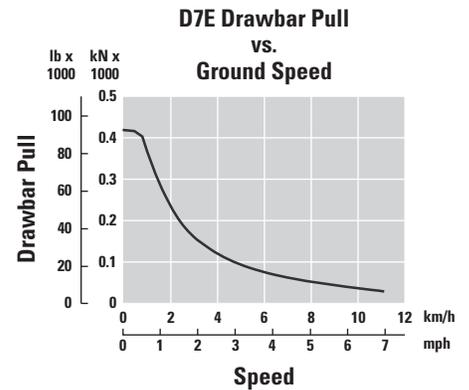
- The operator sound exposure Leq (equivalent sound pressure level) measured according to the work cycle procedures specified in ANSI/SAE J1166 OCT 98 is 77 dB(A), and as measured by ISO 6396: 2008 is 75 dB(A), for cab offered by Caterpillar, when properly installed and maintained and tested with the doors and windows closed.
- Hearing protection may be needed when operating with an open cab (when not properly maintained or doors/windows open) for extended periods and noisy environment.
- The exterior sound pressure level for the standard machine measured at a distance of 15 meters (49 feet) according to the test procedures specified in SAE J88 APR 95, mid-gear-moving operation, is 80 dB(A).

Drive Train

| | |
|--------------------------------------------------|----------------|
| Type | Electric Drive |
| AC Compressor Nominal Input Voltage | 320 Volts |
| AC Compressor Maximum Input Current | 12 Amps |
| Electric Water Pump System Nominal Input Voltage | 320 Volts |
| Electric Water Pump System Nominal Input Current | 5 Amps |
| AC Generator and Propulsion Module Voltage | 480 Volts |

- Nominal current dependent on heat/humidity loading on HVAC unit.
- Measured with water pump operating speed of 4,400 rpm. Measurement is 1 Amp with the water pump operating speed of 2,100 rpm.

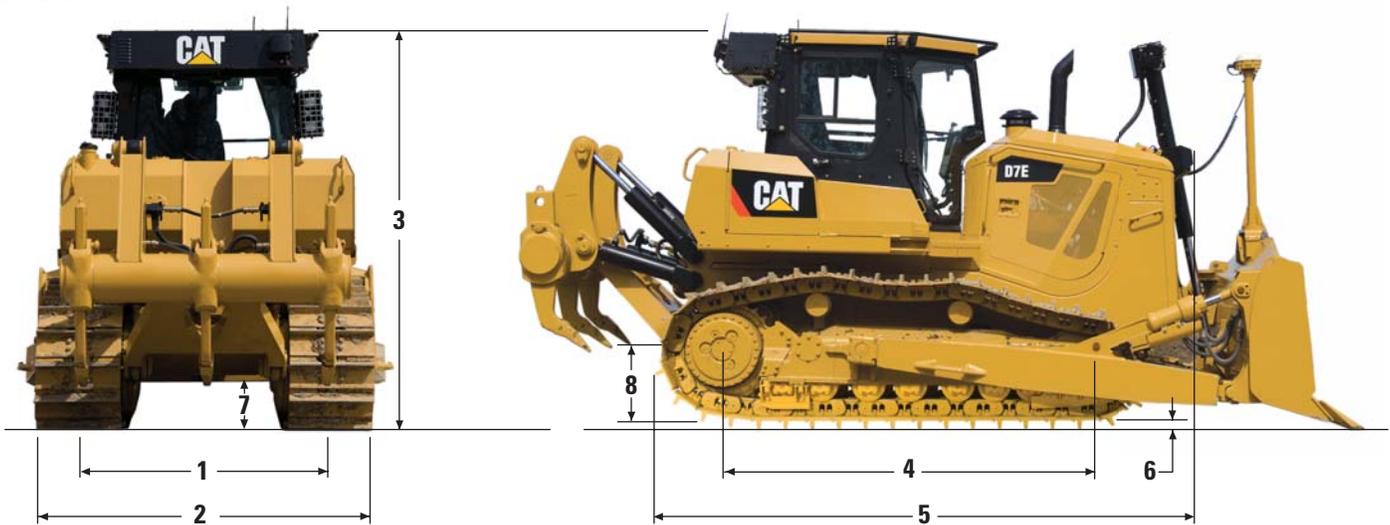
Drawbar Pull



D7E Waste Handler Specifications

Dimensions

All dimensions are approximate



| | STD | | LGP | |
|-------------------------------------------------------------|--------------------------|-----------------------|--------------------------|-----------------------|
| 1 Track Gauge | 1981 mm | 78 in | 2286 mm | 90 in |
| 2 Width of Tractor over Trunnions | 2880 mm | 113 in | 3423 mm | 135 in |
| Width of Tractor without Trunnions (std. shoes) | 2591 mm | 102 in | 3200 mm | 126 in |
| 3 Machine Height from Tip of Grouser | | | | |
| Top of Stack | 3365 mm | 132 in | 3365 mm | 132 in |
| Top of Roof-Mounted Precleaner (not shown) | 3607 mm | 142 in | 3505 mm | 138 in |
| From Ground Face of Shoe | 3322 mm | 131 in | 3322 mm | 131 in |
| 4 Length of Track on Ground | 3016 mm | 119 in | 3450 mm | 136 in |
| 5 Length of Basic Tractor | 4608 mm | 181 in | 4608 mm | 181 in |
| With the following attachments add to basic tractor length: | | | | |
| Ripper (with tip at ground line) | 1391 mm | 55 in | | N/A |
| Ripper (with tip fully raised) | 1222 mm | 48 in | | N/A |
| Winch | 1032 mm | 41 in | 1032 mm | 41 in |
| Drawbar | 270 mm | 10.6 in | 270 mm | 10.6 in |
| S Blade | | N/A | 977 mm | 38 in |
| SU Blade | 1187 mm | 47 in | | N/A |
| U Blade | 1425 mm | 56 in | | N/A |
| 6 Height of Grouser | 70 mm | 2.75 in | 70 mm | 2.75 in |
| 7 Ground Clearance | 472 mm | 18.6 in | 472 mm | 18.6 in |
| Ground Contact Area (std. shoes) | 3.68 m ² | 5,698 in ² | 6.31 m ² | 9,792 in ² |
| Number of Shoes per Side | | 40 | | 44 |
| Standard Shoe Width and Type | 610 mm | 24 in | 915 mm | 36 in |
| | | MS | | MS |
| Ground Pressure | 0.699 kg/cm ² | 9.9 psi | 0.446 kg/cm ² | 6.3 psi |
| Pitch | 215.9 mm | 8.5 in | 215.9 mm | 8.5 in |
| Track Rollers/Side | | 7 | | 8 |
| Number of Carrier Rollers | | 2 | | 2 |
| 8 Drawbar Height (grouser tip to center of clevis) | 719 mm | 28 in | 719 mm | 28 in |

Bulldozer Specifications

| Blade | | 7SU | 7U | 7S LGP |
|-----------------------------|-----------------|-------|-------|--------|
| Blade Capacity (SAE J1265)* | m ³ | 14 | 16,8 | 12,3 |
| | yd ³ | 18,4 | 22 | 16,1 |
| Width (over end bits) | mm | 3.713 | 3.988 | 4.545 |
| | ft | 12,18 | 13,08 | 14,91 |
| Height | mm | 1.524 | 1.553 | 1.343 |
| | ft | 5 | 5,1 | 4,4 |
| Digging Depth | mm | 586 | 586 | 644 |
| | in | 23,1 | 23,1 | 25,4 |
| Ground Clearance | mm | 1.108 | 1.108 | 1.264 |
| | in | 43,6 | 43,6 | 49,8 |
| Maximum Tilt | mm | 987 | 1.085 | 785 |
| | in | 38,9 | 42,7 | 30,9 |
| Weight** | kg | 4.380 | 4.540 | 3.860 |
| | lb | 9.636 | 9.988 | 8.492 |

* Capacities calculated with a trash rack installed.

** Weight includes cylinder mounting, lift cylinder and lines, blade, push arms, trunnions, and cylinder lines (Tilt).

Undercarriage

| Type | Heavy Duty Undercarriage | | | |
|----------------------------------------|--------------------------|-----------------------|---------------------|-----------------------|
| Configuration | | STD | | LGP |
| Number of Rollers (each side) | | 7 | | 8 |
| Number of Shoes (each side) | | 40 | | 44 |
| Pitch | 216 mm | 8.5 in | 216 mm | 8.5 in |
| Shoe Width | 610 mm | 24 in | 915 mm | 36 in |
| Grouser Height (MS) | 70 mm | 2.75 in | 70 mm | 2.75 in |
| Length of Track on Ground (Heavy Duty) | 3016 mm | 119 in | 3450 mm | 136 in |
| Track Gauge | 1981 mm | 78 in | 2286 mm | 90 in |
| Ground Contact Area (Heavy Duty) | 3.68 m ² | 5,698 in ² | 6.31 m ² | 9,792 in ² |
| Ground Pressure (Heavy Duty) | 69.5 kPa | 10.1 psi | 44.3 kPa | 6.4 psi |
| Ground Clearance | 472 mm | 18.6 in | 472 mm | 18.6 in |

D7E Waste Handler Standard Equipment

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

ELECTRICAL

Accessory Power Converter (APC)
Alarm, Backup
Batteries, Heavy Duty
Converter, 24V to 12V, 10 Amp
Heater, Engine Coolant, 120V
Horn, Forward Warning
Product Link

OPERATOR ENVIRONMENT

Air Suspension Seat
Armrest, Adjustable
Bidirectional Shift Switch
Center Post Cab, ROPS/FOPS
Continuously Variable Speed Control
Differential Steering
Electro-Hydraulic Controls
Electronic Monitoring System
Foot Supports, Dash
Hour Meter, Electronic
Machine Isolation, Operator Presence
Mirror, Rearview
Modular HVAC, Cab Mounted
Radio Ready, 12V
Seat Belt, Retractable 76 mm (3")
Speed Recall Button
Throttle Dial, Electronic
Tilt Cab and Tilt Cab Jack
Travel Control Pedal
Wipers, Intermittent

POWERTRAIN

Aftercooler
Air Cleaner, Precleaner
with Strata Tube Dust Ejector
C9.3 ACERT Engine
EPA/ARB Tier 4 Interim/EU Stage IIIB
Certified Engine and Aftertreatment
Continuously Variable Speed Transmission
Coolant, Extended Life
Drains, Ecology, Powertrain
Electronic Air Cleaner Service Indicator
Fan, Hydraulically Driven Demand
Final Drives, Double Reduction
Fuel Priming Pump, Electronic
Muffler
Parking Brake, Electronic
Prescreener
Starting Aid, Ether
Turbocharger, Wastegated
Water Separator

UNDERCARRIAGE

Heavy Duty Track (610 mm/24" MS)
Heavy Duty Track (914 mm/36" MS) (LGP)
Guards, End Track Guiding
Idler Guards
Master Link
Rollers and Idlers, Lifetime Lubricated
Sprocket Rim Segments, Replaceable
Track Adjusters, Gas Spring Recoil,
Grease Track Adjust

OTHER STANDARD EQUIPMENT

CD ROM Parts Book
Engine Enclosures, Perforated
Front Tow Hook
Grade Control Ready
Guards, Hinged Bottom
Hood, Perforated
Hydraulics, Load Sensing, Dozer Lift
and Tilt
Oil Cooler, Hydraulic
S•O•SSM Sampling Ports
Radiator Doors, Louvered, Double Hinged
Vandalism Protection for Fluid
Compartments and Battery Box

D7E Waste Handler Optional Equipment

Optional equipment may vary. Consult your Cat dealer for details.

| | | |
|-----------------------------------------------------------------------|-----------------------------------------------------------------|----------------------------------------------|
| 610 mm, 660 mm, 914 mm (24", 26", and 36") Track Pads | Track Guide Guards | Landfill Bulldozer Blades – with Trash Racks |
| AccuGrade Ready Installation Arrangement | Turbine Precleaner | SU |
| Black Hood and Back of Blade | Winch Arrangement (PACCAR PA90) | U |
| Cold Weather Attachments | Waste (Landfill) Arrangements | LGP S |
| Engine Coolant Heater, 240 V | Waste Handling Arrangement Includes: | Front Striker Bars |
| Enhanced Clean Cab | – Engine Enclosures with Bolt-in Perforated Corrugated Doors | Rear Striker Bars |
| Fast Fuel | – Insulated Clean Emissions Module | Ripper Striker Bars |
| Final Drive Clamshell Guards | – Cab, Front Door Screen Ready Mountings | Cab Door Screens |
| Final Drive Flange Protection | – Cab, Enhanced Clean | |
| Rear Screen | – Fenders, Heavy Duty | |
| Heated Seat | – Chassis Guarding on Mainframe | |
| Heavy Duty Grill Door, Hinged | – Seal Guard Group | |
| Lights | – Crank Case Guard Group | |
| Basic (6) Lights | – Fuel Tank Guards | |
| Premium (10) HID and Halogen Lights | – Final Drive Clamshell Guard | |
| Multi-shank Ripper and Ripper Hydraulics | – Dozer Lines Guards | |
| Power Train Oil Change System | – Guard Group, Track Guide | |
| Rear Vision Camera | – Idler Seal Guards, Kevlar Design | |
| Reversing Fan | – Black Hood and Dozer Lift Cylinder | |
| Sound Suppression (Europe) | – Final Drive Flange Protection Guards | |
| SU (Semi-universal), U (Universal), (S) Straight, and Angle Blades | – Screen, Grill Door | |
| Sweeps | – Track Roller Frame Debris Guard | |

D7E Waste Handler

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

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