## Engine

<table>
<thead>
<tr>
<th>Engine Model</th>
<th>Global Emissions</th>
<th>Engine Power (Maximum)</th>
<th>Net Power (Rated)</th>
<th>Net Power (Maximum)</th>
</tr>
</thead>
</table>

## Weights

<table>
<thead>
<tr>
<th>Weights</th>
<th>Operating Weight</th>
<th>Shipping Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Standard</td>
<td>LGP</td>
</tr>
<tr>
<td></td>
<td>39 795 kg 87,733 lb</td>
<td>37 795 kg 83,324 lb</td>
</tr>
<tr>
<td></td>
<td>Standard</td>
<td>LGP</td>
</tr>
<tr>
<td></td>
<td>30 490 kg 67,219 lb</td>
<td>33 600 kg 74,075 lb</td>
</tr>
</tbody>
</table>
D8T Features

Powerful Productivity
Standard electro-hydraulic controls improve precision and response. Dedicated hydraulics and machine control systems aid overall productivity. Features like Enhanced Auto Shift and a Hydraulic Demand Fan help reduce overall fuel use and operating costs.

Operator Station
Ease of operation, cab comfort and layout help keep operators focused and more productive.

Engine and Emissions Technology
Cat® engine and aftertreatment solutions meet U.S. EPA Tier 4 Interim/EU Stage IIIB/Japan MLIT Step 4 emission standards.

Integrated Electronic Solutions
Caterpillar offers a variety of technologies to significantly enhance machine performance. Cat Product Link™ helps fleet managers maximize utilization and control costs.

Serviceability and Customer Support
Ease of serviceability, Cat dealer support expertise and machine rebuild capability help reduce overall owning and operating costs.

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The Cat® D8T has a long history of best-in-class versatility, productivity and resale value. Because it excels across a wide range of dozing tasks, customers choose the D8T for everything from dozing, ripping, scraper work and land clearing to rough finish grading. And with features designed for even greater comfort, productivity and fuel efficiency, today’s D8T does even more to help you meet your business objectives. The D8T meets U.S. Tier 4 Interim/EU Stage IIIB/Japan MLIT Step 4 emission standards.
Operator Station
Comfort and convenience

The D8T cab is designed and equipped for operator productivity, safety and comfort. Large single-pane windows, tapered hood and notched fuel tank provide excellent visibility to all sides of the machine and around the job site. New standard and optional light packages extend the productive work day.

The D8T features an updated in-dash display with new functionalities. An improved Advisor Monitoring System tracks machine operating conditions in real time. An integrated grade control system display mount puts job site data conveniently in front of the operator.

Operators will enjoy comfort features like standard air-ride suspension seat, adjustable arm rests and well-positioned air vents. The cab is radio ready and includes a personal music player jack. A power converter supplies supplemental power for cellular phones and computers. New finishes make the cab easier to clean.

Engine
Power and reliability

The D8T features a Cat® C15 ACERT™ engine and a Cat Clean Emissions Module to deliver the performance and efficiency that customers demand, while meeting U.S. EPA Tier 4 Interim/EU Stage IIIIB/Japan MLIT Step 4 emission standards.

The six-cylinder electronic engine is turbocharged and aftercooled. The displacement produces better lugging capability, lower internal stresses and longer component life.

ACERT Technology is a combination of building blocks that includes electronics, fuel systems, air management systems and aftertreatment components. The system is optimized based on engine size, the type of application and the geographic location in which it will work. The technologies are applied systematically and strategically to meet high customer expectations for productivity, fuel efficiency, reliability and service life.
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 IIIIB/Japan MLIT Step 4 emission 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. An optional insulated Clean Emissions Module is available for high debris applications that require thermal shields on exhaust components.

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 D8T dash display.

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.
From engine to transmission to final drives, the D8T powertrain is designed to turn power into productive work. The D8T offers unmatched lugging capability and smooth shifting when changing gears under varying loads. The 3-speed forward, 3-speed reverse transmission, backed by differential steering, offers excellent run out speeds and accurate steering capability.

**Torque Divider**
A robust, high efficiency torque divider provides high torque multiplication to move heavy loads, while shielding the drive train from sudden torque shocks and vibration.

**Differential Steering System**
Differential steering maintains full power to both tracks for best-in-class turning under load. When one track speeds up, the other slows down an equal amount. Maneuverability – especially with large blade loads – is improved, as well as cycle times in some applications. Greater load capacity, power and speed control are possible in soft underfoot conditions on steep slopes because both tracks are powered during turns.

**Planetary Power Shift Transmission**
The planetary power shift transmission offers smooth shifting and quick speed and directional changes for maximum productivity. The transmission is built for long life, and a modular design allows for ease of service without removing other components.

**Enhanced Auto Shift**
The new Enhanced Auto Shift feature uses the simple “shift up, idle back” principle during forward and reverse travel to save fuel and improve overall dozing cycle fuel efficiency.

**Auto-Shift/Auto-Kickdown**
Auto-shift allows the operator, by just making a directional change, to go from preset forward to preset reverse gears. Auto-kickdown automatically downshifts the transmission when significant load increases are detected. These features are especially useful when backfilling or rough grading. Operators can select from a variety of settings, and can override the automatic shift features at any time.
Implement and Steering Controls
Ergonomically designed for ease of operation

Steering and Transmission Control
A new steering tiller is ergonomically designed to improve operator comfort. The new thumb roller on the steering control shifts the electronically controlled powershift transmission. The tiller allows precise steering in close areas with the finest modulation in the industry.

Dozer Control Lever
The D8T features an ergonomically designed dozer lever with low effort, electro-hydraulic controls for added operator comfort, ease of operation and precise work tool control. Features such as blade response, blade float, auto blade pitch and spread rate can be set up and adjusted using the Advisor panel. When equipped, single-handle convenience also controls functions like AccuGrade and Dual Tilt.

Electronic Ripper Control
A rigidly mounted handgrip provides firm support for the operator even when ripping in the roughest terrain. Thumb and fingertip controls direct ripper functions. Programmable features like Auto Lift, Shank-Out, Auto Stow and Automatic Ripper Control help increase operator efficiency.

Throttle Rocker Switch
One touch of the throttle rocker switch automatically adjusts engine speed to high or low idle. A new feature allows the operator to press and hold until desired engine speed is reached, then release for the machine to maintain the new chosen speed.
Integrate Technologies
Solutions to make work easier and more efficient

Caterpillar is the only manufacturer to offer fully-integrated electronic technology solutions that enable greater accuracy, higher productivity, lower operating costs and more profitability.

**Cat AccuGrade™**

AccuGrade uses laser, optical and satellite guidance technologies, machine sensors, and automatic blade control to help operators get to grade faster, easier and more efficiently. Digital design plans, real-time cut/fill data, and in-cab guidance give operators detailed information to work more confidently and achieve greater accuracy, in fewer passes, using less material. Operators can stay on grade and improve productivity and accuracy by nearly 50 percent over conventional methods. Grade stakes and checkers are minimized, helping to make the work site safer, more efficient, and more cost effective.

The D8T comes standard with wiring harnesses routed through the machine during assembly to protect from wear and simplify installation of the AccuGrade system. Deep integration optimizes machine and system performance and provides optimal mounting locations for easy operator interaction. Brackets and hardware are provided with the optional AccuGrade Ready Option (ARO).

**Computer Aided Earthmoving System (CAES)**

CAES uses satellite guidance technology, machine sensors, a radio network, and office management software to deliver real-time grading and productivity information to operators. Accurate cut and fill data ensures proper grade control and targeted removal of overburden in stockpile and quarrying operations. Data collection capabilities enable accurate recordkeeping of material placement and validation.

**Cat Product Link™**

Product Link helps take the guesswork out of equipment management with remote monitoring capabilities for one machine or your entire fleet. Track asset location, hours, fuel usage, diagnostic codes, idle time and more through the secure VisionLink™ user interface. Knowing where your equipment is, what it’s doing and how it’s performing enables you or your Cat dealer to manage your fleet in real-time so you can maximize efficiency, improve productivity, and lower operating costs.

**VIMS™**

VIMS uses deeply integrated sensors in the brake, transmission and engine systems to constantly provide machine condition and performance information. Actionable reports give you insight to proactively manage maintenance and repairs to help you maximize machine availability and uptime for greater fleet productivity and profit.
Work Tools
Equipped for versatility

Bulldozers
High tensile strength steel with a strong box-section design stands up to the most severe applications. Heavy moldboard construction and hardened bolt-on cutting edges and end bits add strength and durability. Optional rock guards and deflector shields help protect cylinders. High-Capacity Universal, Semi-Universal and Angle Blades are available, as well as special configurations for coal and woodchip stockpile applications.

Optional Dual Tilt
Dual Tilt improves load control and allows the operator to optimize the blade pitch angle for better balance and productivity. Tilt the blade forward for better penetration, then tilt back to increase carrying capacity.

Optional Auto Blade Assist
Auto Blade Assist automates blade pitch and lift control during a typical dozing cycle to help reduce operator fatigue.

Rippers
The standard D8T implement valve is ready for ripper installation, giving you the flexibility to use one, two or three shanks. A Single-Shank Ripper is recommended in severe applications. A Multi-Shank Ripper is best in less severe applications or if ripping near a high wall.

Hydraulics
Field-proven load-sensing hydraulics continually respond to operating requirements by automatically adjusting attachment hydraulic power for maximum efficiency. High efficiency, variable displacement pumps supply maximum flow rates for tough applications, implement power on demand, and consistent pressure output for quick response. Variable flow design minimizes hydraulic oil temperatures and helps save fuel.

Rear Counterweights
Rear counterweights provide proper tractor balance to maximize dozing production and are recommended when tractor is not equipped with any other rear attachment.

Winches
Please consult your Cat dealer for available winch options.
Undercarriage
Engineered for performance

The D8T is available in Standard and Low Ground Pressure (LGP) configurations to suit your application needs.

The machine features the Cat elevated sprocket design that isolates final drives, axles, and steering components from harsh impacts. The modular design aids serviceability to help reduce maintenance costs. A variety of undercarriage configurations and track shoe designs help optimize performance and undercarriage life.

**Heavy Duty Undercarriage** with Positive Pin Retention Moderate Service Sealed and Lubricated Track is standard. This undercarriage is well suited to aggressive applications like land clearing, side-slopes, or working in rocky or uneven terrain. Components are designed for extended wear life in abrasive conditions and high impact applications.

**SystemOne™ Undercarriage** is available as an option and can help reduce total undercarriage owning and operating costs in many applications. SystemOne features lifetime sealed and lubricated cartridges to eliminate bushing turns, and sprockets require no replacement during the life of the chain. All SystemOne undercarriage components are designed to work and wear as a system for longer track life.

Cooling System
Durable and efficient

The engine radiator, Air To Air After Cooler (ATAAC) and hydraulic oil cooler are packaged in a single plane. Aluminum bar plate construction aids durability and allows for higher heat transfer and superior corrosion resistance. The standard cores feature 6 fins per inch to allow debris to pass through and reduce plugging concerns.

In cooler conditions, a **Hydraulically Driven Demand Fan** reduces speed to conserve power, save fuel, and decrease sound levels.

An optional **Reversing Fan** can be set to change air flow direction, efficiently removing debris from the cooling cores without the operator leaving the cab. To improve core serviceability, the cooling package also includes air wand or brush access slots. The ROPS mounted air conditioning system works with the reversing fan for optimum fan purging and ambient cooling capability.
The D8T mainframe is built industry-leading tough – heavy steel castings, full box section frame rails and continuous rolled sections on top and bottom frame rails provide the strength to absorb high impact shock loads and twisting forces.

The D8T pivot shaft runs through the mainframe and connects to the roller frames, allowing independent oscillation. The full-length pivot shaft distributes impact loads throughout the case, reducing the bending stress on the case. The Tag-Link brings the blade closer to the machine for more precise dozing and load control. The design provides solid lateral stability and better cylinder positions for constant break out force, independent of blade height.

Cat track-type tractor frames set the industry standard for durability. Major structures and components are built to be rebuilt, reducing waste and replacement costs.

Sustainability
Thinking generations ahead

- Features like Enhanced Auto Shift and a Hydraulic Demand Fan help decrease overall fuel consumption.
- Technologies like AccuGrade and Product Link help improve overall efficiency, saving fuel and fluids, as well as wear and tear.
- New grab handles, steps, lighting packages and a ground level service center help enhance job site safety.
- Major components are built to be rebuilt, eliminating waste and saving customers money by giving the machine a second – and even third – life.
- Approximately 98% of machine materials can be recycled (ISO 16714), conserving valuable natural resources and further enhancing machine end-of-life value.
Serviceability and Customer Support
When uptime counts

Ease of Serviceability
The D8T offers full left-side engine serviceability, including fill tube, dipstick, air cleaner, fuel filters, oil filter and coolant level check. Cooling system access is also improved for inspection and cleaning. To reduce maintenance cost and time, the D8T features a new high capacity filter element and improved powertrain filter bypass strategy to extend service intervals. The in-cab monitoring system also provides electronic fluid level verification at startup for the coolant, powertrain and engine oil systems.

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, secondary engine shutdown and access light switches. A digital hour meter is also available.

Access/Egress
Newly designed steps and handrails make climbing on and off the tractor easier than ever. An access light switch turns on the cab or exterior light for night time visibility when mounting/dismounting the machine.

An Operator Not Present Monitoring system allows the machine to idle when an operator is not in the seat. The system locks out the powertrain so any unintentional movements during ingress or egress will not physically move the machine.

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·S™) 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 your profits.

And when it’s time for machine replacement, your Cat dealer can help you save even more with Genuine Cat Reman parts. Receive the same warranty and reliability as new products at cost savings of 40 to 70 percent for powertrain and hydraulic components.
## D8T Specifications

### Engine

<table>
<thead>
<tr>
<th>Engine Model</th>
<th>Cat® C15 ACERT™</th>
</tr>
</thead>
<tbody>
<tr>
<td>Global Emissions</td>
<td>U.S. Tier 4 Interim/ EU Stage IIIB/Japan MLIT Step 4</td>
</tr>
</tbody>
</table>

**Engine Power (Maximum*)**

| SAE J1995 | 271 kW 363 hp |
| ISO 14396 | 268 kW 359 hp |
| ISO 14396 (DIN) | 364 hp |

**Net Power (Rated**)**

| ISO 9249/SAE J1349 | 237 kW 317 hp |
| ISO 9249/SAE J1349 (DIN) | 322 hp |

**Net Power (Maximum*)**

| ISO 9249/SAE J1349 | 248 kW 333 hp |
| ISO 9249/SAE J1349 (DIN) | 338 hp |

**Bore**

137 mm 5.4 in

**Stroke**

172 mm 6.75 in

**Displacement**

15.2 L 928 in³

*Maximum speed 1,700 rpm.

**Rated speed 1,850 rpm.

- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator.
- No derating required up to 3566 m (11,700 ft) altitude, beyond 3566 m (11,700 ft) automatic derating occurs.
- All non-road U.S. EPA Tier 4, European Union (EU) Stage IIIB and IV, and Japan (MLIT) Step 4 certified diesel engines are required to use:
  - Ultra Low Sulfur Diesel (ULSD) and Sulfur-Free fuels that are 15 ppm (mg/kg) sulfur or less.
  - Cat DEO-ULS™ or oils that meet the Cat ECF-3, API CJ-4, and ACEA E9 specification.

### Service Refill Capacities

<table>
<thead>
<tr>
<th>Component</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Tank</td>
<td>643 L 170 gal</td>
</tr>
<tr>
<td>Cooling System</td>
<td>77 L 20.3 gal</td>
</tr>
<tr>
<td>Engine Crankcase*</td>
<td>38 L 10 gal</td>
</tr>
<tr>
<td>Powetrain</td>
<td>155 L 41 gal</td>
</tr>
<tr>
<td>Final Drives (each)</td>
<td>12.5 L 3.3 gal</td>
</tr>
<tr>
<td>Roller Frames (each)</td>
<td>65 L 17.2 gal</td>
</tr>
<tr>
<td>Pivot Shaft Compartment</td>
<td>40 L 10.6 gal</td>
</tr>
<tr>
<td>Hydraulic Tank</td>
<td>75 L 19.8 gal</td>
</tr>
</tbody>
</table>

* With oil filters.

### Weights

#### Operating Weight

- **Standard**: 39 795 kg 87,733 lb
- **LGP**: 37 795 kg 83,324 lb

#### Shipping Weight

- **Standard**: 30 490 kg 67,219 lb
- **LGP**: 33 600 kg 74,075 lb

- Operating Weight – Standard: Includes hydraulic controls, blade tilt cylinder, coolant, lubricants, 100% fuel, ROPS, FOPS cab, SU-Blade, Single-Shank Ripper, 610 mm (24 in) MS shoes, and operator.
- Operating Weight – LGP: Includes hydraulic controls, blade tilt cylinder, drawbar, coolant, lubricants, 100% fuel, ROPS, FOPS cab, SU-Blade, 965 mm (38 in) MS shoes, and operator.
- Shipping Weight – Standard: Includes coolant, lubricants, 20% fuel, ROPS, FOPS cab, and 610 mm (24 in) MS shoes.
- Shipping Weight – LGP: Includes coolant, lubricants, 20% fuel, ROPS, FOPS cab, and 965 mm (38 in) MS shoes.

### Undercarriage

#### Standard

- **Shoe Type**: Moderate Service
- **Width of Shoe**: 610 mm 24 in
- **Shoes/Side**: 44
- **Track Rollers per Side**: 8
- **Grouser Height**: 78 mm 3.1 in
- **Pitch**: 216 mm 8.5 in
- **Ground Clearance**: 613 mm 24.1 in
- **Track Gauge**: 2083 mm 82 in
- **Length of Track on Ground**: 3206 mm 126 in
- **Ground Contact Area**: 3.91 m² 6,060 in²
- **Ground Pressure (ISO 16754)**: 89.6 kPa 13.0 psi

#### LGP

- **Shoe Type**: Moderate Service
- **Width of Shoe**: 965 mm 38 in
- **Shoes/Side**: 44
- **Track Rollers per Side**: 8
- **Grouser Height**: 78 mm 3.1 in
- **Pitch**: 216 mm 8.5 in
- **Ground Clearance**: 613 mm 24.1 in
- **Track Gauge**: 2337 mm 92 in
- **Length of Track on Ground**: 3206 mm 126 in
- **Ground Contact Area**: 6.19 m² 9,593 in²
- **Ground Pressure (ISO 16754)**: 54.0 kPa 7.8 psi

- Heavy Duty Undercarriage
### Hydraulic Controls

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump Type</td>
<td>Piston-type, Variable Displacement</td>
</tr>
<tr>
<td>Pump Output (Steering)</td>
<td>276 L/min 73 gal/min</td>
</tr>
<tr>
<td>Pump Output (Implement)</td>
<td>226 L/min 60 gal/min</td>
</tr>
<tr>
<td>Tilt Cylinder Rod End Flow</td>
<td>130 L/min 34 gal/min</td>
</tr>
<tr>
<td>Tilt Cylinder Head End Flow</td>
<td>170 L/min 45 gal/min</td>
</tr>
<tr>
<td>Bulldozer Relief Valve Setting</td>
<td>24 000 kPa 3,480 psi</td>
</tr>
<tr>
<td>Tilt Cylinder Relief Valve Setting</td>
<td>24 000 kPa 3,480 psi</td>
</tr>
<tr>
<td>Ripper (Lift) Relief Valve Setting</td>
<td>24 000 kPa 3,480 psi</td>
</tr>
<tr>
<td>Ripper (Pitch) Relief Valve Setting</td>
<td>24 000 kPa 3,480 psi</td>
</tr>
<tr>
<td>Steering</td>
<td>39 200 kPa 5,700 psi</td>
</tr>
</tbody>
</table>

- Steering Pump output measured at 2,300 rpm (pump speed) and 30 000 kPa (4,351 psi).
- Implement Pump output measured at 1,850 rpm and 6895 kPa (1,000 psi).
- Electro-hydraulic pilot valve assists operations of ripper and dozer controls. A standard hydraulic system includes four valves.
- Complete system consists of pump, tank with filter, oil cooler, valves, lines, linkage and control levers.

### Transmission

<table>
<thead>
<tr>
<th>Gear Type</th>
<th>Speeds</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Forward</td>
<td>3.4 km/h 2.1 mph</td>
<td></td>
</tr>
<tr>
<td>2 Forward</td>
<td>6.1 km/h 3.8 mph</td>
<td></td>
</tr>
<tr>
<td>3 Forward</td>
<td>10.6 km/h 6.6 mph</td>
<td></td>
</tr>
<tr>
<td>1 Reverse</td>
<td>4.5 km/h 2.8 mph</td>
<td></td>
</tr>
<tr>
<td>2 Reverse</td>
<td>8 km/h 5 mph</td>
<td></td>
</tr>
<tr>
<td>3 Reverse</td>
<td>14.2 km/h 8.8 mph</td>
<td></td>
</tr>
<tr>
<td>1 Forward – Drawbar Pull (1000)</td>
<td>618.5 N 139 lbf</td>
<td></td>
</tr>
<tr>
<td>2 Forward – Drawbar Pull (1000)</td>
<td>338.2 N 76 lbf</td>
<td></td>
</tr>
<tr>
<td>3 Forward – Drawbar Pull (1000)</td>
<td>186.9 N 42 lbf</td>
<td></td>
</tr>
</tbody>
</table>

### Blades

#### Type 8SU

<table>
<thead>
<tr>
<th>Capacity (SAE J1265)</th>
<th>8.7 m$^3$</th>
<th>11.4 yd$^3$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width (over end bits)</td>
<td>3940 mm</td>
<td>12.9 ft</td>
</tr>
<tr>
<td>Height</td>
<td>1690 mm</td>
<td>5.5 ft</td>
</tr>
<tr>
<td>Digging Depth</td>
<td>575 mm</td>
<td>22.6 in</td>
</tr>
<tr>
<td>Ground Clearance</td>
<td>1225 mm</td>
<td>48.2 in</td>
</tr>
<tr>
<td>Maximum Tilt</td>
<td>883 mm</td>
<td>34.8 in</td>
</tr>
<tr>
<td>Weight* (without hydraulic controls)</td>
<td>4789 kg 10,557 lb</td>
<td></td>
</tr>
<tr>
<td>Total Operating Weight** (with Blade and Single-Shank Ripper)</td>
<td>39 795 kg 87,733 lb</td>
<td></td>
</tr>
</tbody>
</table>

#### Type 8A

<table>
<thead>
<tr>
<th>Capacity (SAE J1265)</th>
<th>11.7 m$^3$</th>
<th>15.3 yd$^3$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width (over end bits)</td>
<td>4267 mm</td>
<td>14 ft</td>
</tr>
<tr>
<td>Height</td>
<td>1740 mm</td>
<td>5.7 ft</td>
</tr>
<tr>
<td>Digging Depth</td>
<td>575 mm</td>
<td>22.6 in</td>
</tr>
<tr>
<td>Ground Clearance</td>
<td>1225 mm</td>
<td>48.2 in</td>
</tr>
<tr>
<td>Maximum Tilt</td>
<td>954 mm</td>
<td>37.5 in</td>
</tr>
<tr>
<td>Weight* (without hydraulic controls)</td>
<td>5352 kg 11,800 lb</td>
<td></td>
</tr>
<tr>
<td>Total Operating Weight** (with Blade and Single-Shank Ripper)</td>
<td>40 358 kg 88,974 lb</td>
<td></td>
</tr>
</tbody>
</table>

#### Type 8SU LGP

<table>
<thead>
<tr>
<th>Capacity (SAE J1265)</th>
<th>8.5 m$^3$</th>
<th>11.1 yd$^3$</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width (over end bits)</td>
<td>4530 mm</td>
<td>14.8 ft</td>
</tr>
<tr>
<td>Height</td>
<td>1622 mm</td>
<td>5.32 ft</td>
</tr>
<tr>
<td>Digging Depth</td>
<td>577 mm</td>
<td>22.7 in</td>
</tr>
<tr>
<td>Ground Clearance</td>
<td>1222 mm</td>
<td>48.1 in</td>
</tr>
<tr>
<td>Maximum Tilt</td>
<td>914 mm</td>
<td>36 in</td>
</tr>
<tr>
<td>Weight* (without hydraulic controls)</td>
<td>5459 kg 12,035 lb</td>
<td></td>
</tr>
<tr>
<td>Total Operating Weight** (with Blade and Single-Shank Ripper)</td>
<td>40 465 kg 89,210 lb</td>
<td></td>
</tr>
</tbody>
</table>

*Includes blade tilt cylinder.

**Operating Weight: Includes hydraulic controls, blade tilt cylinder, coolant, lubricants, 100% fuel, ROPS, FOPS cab, blade, single-shank ripper, 610 mm (24 in) MS shoes, and operator.
## Rippers

<table>
<thead>
<tr>
<th>Type</th>
<th>Single-Shank, Adjustable Parallelogram</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of Pockets</td>
<td>1</td>
</tr>
<tr>
<td>Maximum Clearance Raised (under tip, pinned in bottom hole)</td>
<td>636 mm 25 in</td>
</tr>
<tr>
<td>Maximum Penetration (standard tip)</td>
<td>1130 mm 44.4 in</td>
</tr>
<tr>
<td>Maximum Penetration Force (shank vertical)</td>
<td>127.3 kN 28,620 lb</td>
</tr>
<tr>
<td>Pry out Force</td>
<td>222.7 kN 50,070 lb</td>
</tr>
<tr>
<td>Weight (without hydraulic controls)</td>
<td>4085 kg 9,005 lb</td>
</tr>
<tr>
<td>Total Operating Weight* (with SU-Blade and Ripper)</td>
<td>39 795 kg 87,733 lb</td>
</tr>
</tbody>
</table>

### Type Multi-Shank, Adjustable Parallelogram

| Number of Pockets | 3                                      |
| Overall Beam Width | 2464 mm 97 in |
| Maximum Clearance Raised (under tip, pinned in bottom hole) | 593 mm 23.35 in |
| Maximum Penetration (standard tip) | 780 mm 30.7 in |
| Maximum Penetration Force (shank vertical) | 124.2 kN 27,920 lb |
| Pry out Force (Multi-Shank Ripper with one tooth) | 227.9 kN 51,230 lb |
| Weight (one shank, without hydraulic controls) | 4877 kg 10,752 lb |
| Additional Shank | 332 kg 732 lb |
| Total Operating Weight* (with SU-Blade and Ripper) | 40 587 kg 89,479 lb |

*Total Operating Weight: Includes hydraulic controls, blade tilt cylinder, coolant, lubricants, 100% fuel, ROPS, FOPS cab, blade, single-shank ripper, 610 mm (24 in) MS shoes, and operator.

## Winches

<table>
<thead>
<tr>
<th>Winch Model</th>
<th>PA14OVS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight*</td>
<td>1790 kg 3,947 lb</td>
</tr>
<tr>
<td>Oil Capacity</td>
<td>15 L 4 gal</td>
</tr>
<tr>
<td>Increased Tractor Length</td>
<td>563 mm 22.2 in</td>
</tr>
<tr>
<td>Winch Length</td>
<td>1430 mm 56.3 in</td>
</tr>
<tr>
<td>Winch Case Width</td>
<td>1160 mm 45.6 in</td>
</tr>
<tr>
<td>Drum Width</td>
<td>320 mm 12.6 in</td>
</tr>
<tr>
<td>Flange Diameter</td>
<td>457 mm 18 in</td>
</tr>
<tr>
<td>Recommended Cable Size</td>
<td>29 mm 1.13 in</td>
</tr>
<tr>
<td>Optional Cable Size</td>
<td>32 mm 1.25 in</td>
</tr>
<tr>
<td>Drum Capacity – Recommended Cable Size</td>
<td>84 m 276 ft</td>
</tr>
<tr>
<td>Drum Capacity – Optional Cable</td>
<td>59 m 193 ft</td>
</tr>
<tr>
<td>Cable Ferrule Sizes – Outside Diameter</td>
<td>60 mm 2.36 in</td>
</tr>
<tr>
<td>Cable Ferrule Sizes – Length</td>
<td>70 mm 2.76 in</td>
</tr>
</tbody>
</table>

* Weight: Includes pump and operator controls.

## Standards

- The operator sound exposure Leq (equivalent sound pressure level) measured according to the work cycle procedures specified in ANSI/SAE J1166 OCT98 is 81 dB(A). As measured by ISO 6396: 2008 is 77 dB(A) (North America) and 76 dB(A) (Europe), 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 m (49 ft) according to the test procedures specified in SAE J88 APR95, mid-gear-moving operation, is 89 dB(A) for North America. For Europe, the exterior sound pressure level for the machine measured by ISO 6395:2008 is 113 dB(A).

### ROPS/FOPS

- Rollover Protective Structure (ROPS) meets the following criteria: ISO 3471:2008.
- Falling Object Protective Structure (FOPS) meets the following criteria: ISO 3449:2005 Level II.

### Brakes

- Crawler Machine Brake Requirements meets the following criteria: ISO 10265:2008.
# Dimensions

(absolute)

<table>
<thead>
<tr>
<th></th>
<th><strong>Standard</strong></th>
<th><strong>Non-Suspended</strong></th>
<th><strong>LGP</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Track Gauge</td>
<td>2083 mm</td>
<td>2082 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>82.0 in</td>
<td>82.0 in</td>
</tr>
<tr>
<td>2</td>
<td>Width of Tractor</td>
<td>Over Trunnions</td>
<td>3057 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Without Trunnions (standard shoe width)</td>
<td>2642 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>104.0 in</td>
</tr>
<tr>
<td>3</td>
<td>Machine Height, from Tip of Grouser</td>
<td>Exhaust Stack</td>
<td>3304 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>EROPS</td>
<td>3500 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>137.8 in</td>
</tr>
<tr>
<td>4</td>
<td>Length of Track on Ground</td>
<td>3206 mm</td>
<td>3258 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>126.2 in</td>
</tr>
<tr>
<td>5</td>
<td>Length of Basic Tractor (tag link trunnion to tip of rear grouser)</td>
<td>4554 mm</td>
<td>4554 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>179.3 in</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>With following attachments add:</td>
<td>Ripper – Single Shank (with tip at ground line)</td>
<td>1519 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Ripper – Multi Shank (with tip at ground line)</td>
<td>1613 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SU Blade</td>
<td>1844 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>U Blade</td>
<td>2241 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A Blade (not angled)</td>
<td>2027 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>A Blade (angled 25 deg.)</td>
<td>3068 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Drawbar</td>
<td>406 mm</td>
</tr>
<tr>
<td>6</td>
<td>Height of Grouser</td>
<td>78 mm</td>
<td>78 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3.1 in</td>
</tr>
<tr>
<td>7</td>
<td>Ground Clearance</td>
<td>613 mm</td>
<td>606 mm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>24.1 in</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Standard shoe width of D8T LGP with non-suspended undercarriage is 965 mm (38 in).
D8T Standard Equipment

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

POWERTRAIN
- C15 ACERT diesel engine with Electronic Unit Injection (EUI)
- EPA/ARB Tier 4 Interim, EU Stage IIIB/
  Japan MLIT Step 4 Certified Engine with aftertreatment
- 24-volt electric start
- High performance single plane cooling system
- Aftercooler, air-to-air (ATAAC)
- Air filter, with electronic service indicator
- Coolant, extended life
- Fan, suction, hydraulically driven
- Fuel priming pump, electric
- Sound attenuated exhaust system
- Parking brake, electronic
- Precleaner, strata-tube dust ejector
- Prescreener
- Shift management
  - Automatic directional and downshift
  - Controlled-throttle, load-compensated
  - Enhanced Autoshift
- Starting aid, automatic ether
- Torque divider
- Transmission, electronically-controlled
  - Powershift, 3F/3R speed
  - Four planet, double-reduction
  - Planetary final drives
- Transmission control module, electronic Turbocharger
- Water separator

UNDERCARRIAGE
- Rollers and idlers, lifetime lubricated
- Sprocket rim segments, replaceable
- Suspension-type undercarriage
- 8-roller tubular track roller frame (Carrier roller ready)
- Track adjusters, hydraulic
- Track guide
- 610 mm (24 in) PPR moderate service grouser with sealed and lubricated track (44 section)
- Two-piece master links

HYDRAULICS
- Hydraulics, independent steering and work tool pumps
- Hydraulics, electronically controlled, load-sensing dozer lift and tilt
- Electronically enabled quick drop valve

STARTERS, BATTERIES, AND ALTERNATORS
- Alternator, 150 amp
- Batteries, heavy duty
- Starting receptacle, auxiliary

ELECTRICAL
- Alarm, back-up
- Converter, 24V to 12V
- Diagnostic connector
- Horn, forward warning

OPERATOR ENVIRONMENT
- ROPS mounted air conditioner
- Armrest, adjustable
- Advisor operator interface
  - Electronic monitoring system
  - Diagnostic service information
  - Operator preferences
- Cab, ROPS/FOPS, sound suppressed
- Deactivation switch, hydraulic controls
- Access/egress lighting with shutdown timer
- Decelerator pedal
- Governor switch, electronic
- Heater and ventilation
- Mirror, rearview
- Radio-ready
- Provision for wire passage in/out of cab
- Interior LED courtesy lights
- Seat, cloth, air-suspension
- Seatbelt, retractable
- Steering control, direction and speed control thumb switches with recall button
- Wipers, intermittent

OTHER STANDARD EQUIPMENT
- CD ROM Parts Book
- Engine enclosures
- Equalizer bar, pinned
- Front pull device
- Guards, bottom hinged
- Grade control ready
- HVAC box – corrosive resistant
- Mounting, lift cylinders
- Oil cooler, hydraulic
- Product Link
  - PL321 (Satellite)
  - PL522 (Cellular)
- VIMS 3G (Satellite/Cellular Product Link)
- S·O·S™ sampling ports
- Steering, electronically controlled power differential
- Vandalism protection for fluid compartments
- Engine compartment service light
- Six lights package
Optional equipment may vary. Consult your Cat dealer for details.

**POWERTRAIN**
- Reversing fan (dual or single tilt)
- Oil change system, high speed
- Precleaner, turbine
- Fast fuel system
- Service package with powertrain and engine hour meter, ecology drains
- Thermal shield, including insulated CEM

**ENGINE**
- Standard with EU sound suppression
- Thermal shield
- Thermal shield with EU sound suppression
- Engine coolant – arctic (–51° C/–60° F)

**RADIATOR**
- 8.5 fins/inch
- 6.35 fins/inch high debris package

**HYDRAULICS**
- Hydraulics, dual tilt
- Hydraulics, pin puller
- Hydraulics, ripper
- Hydraulics, winch
- Hydraulic implement towing arrangement
- Hydraulic valve fan – cold weather

**STARTERS, BATTERIES, AND ALTERNATORS**
- Batteries, arctic
- Heater, engine coolant (240V)
- Alternator, 150 amps, ducted

**ELECTRICAL**
- Premium light package
  - (3 HID, 7 halogen)
- Sweeps light package (8 halogen)
- Light, warning strobe

**OPERATOR ENVIRONMENT**
- Visibility arrangement, single camera (EU required)
- Enhanced dual pane glass
- Pressurized cab
- Seat, cloth heated/ventilated
- Window shades

**INTEGRATED TECHNOLOGY**
- AccuGrade Attachment Ready Option
- AccuGrade (dealer installed)
- Computer Aided Earthmoving System (CAES) (dealer installed)

**UNDERCARRIAGE**
- Standard configuration
- LGP configuration
- Heavy duty undercarriage
  - Suspended
  - Non-suspended
- SystemOne undercarriage
- Powered bottom guard (Standard or LGP)
- Track pairs (44-section) sealed and lubricated, single grouser shoes

**POSITIVE PIN RETENTION TRACK**
- PPR Track
- PPR Track – guarded
- PPR Track – arctic
- Extreme Service Track – 610 mm, 660 mm, 710 mm, 965 mm (24 in, 26 in, 28 in, 38 in)
- Moderate Service Track – 610 mm, 660 mm, 710 mm, 965 mm (24 in, 26 in, 28 in, 38 in)
- Super Extreme Service Track – 610 mm (24 in)
- Extreme Service Track (trapezoidal hole) – 610 mm, 660 mm, 710 mm, 965 mm (24 in, 26 in, 28 in, 38 in)
- Super Extreme Service Track (trapezoidal hole) – 660 mm (26 in)
- Moderate Service Track (trapezoidal hole) – 710 mm (28 in)

**SYSTEMONE TRACK**
- Center tread idler
- Conventional idler
- Extreme Service – 610 mm, 660 mm, 710 mm (24 in, 26 in, 28 in)
- Super Extreme Service – 610 mm, 660 mm, 710 mm (24 in, 26 in, 28 in)
- Extreme Service (center hole) – 610 mm, 660 mm (24 in, 26 in)
- Super Extreme Service (center hole) – 610 mm, 660 mm (24 in, 26 in)

**ROLLER OPTIONS**
- Carrier rollers
- Suspended
- Non-suspended
- Seals, arctic, idler/roller
- Rollers, arctic/pins
- Cartridge pins, arctic

**GUARDS**
- Guard, fuel tank
- Guard, fast fuel
- Guard, center tread idler seals
- Guard, transmission
- Guard, fan debris
- Front striker bars
- Sweeps group

**OTHER ATTACHMENTS**
- Grab handles, push arm

**BLADES**
- 8A Angle Blade
- 8U Universal Blade
- 8SU Semi-Universal Blade
- 8SU LGP Semi-Universal Blade
- 8SU Landfill Blade
- 8SU LGP Landfill Blade
- Coal Blade
- Woodchip Blade
- Rock and landfill guards, as well as push plates and wear plates, are available for specific applications
Optional equipment may vary. Consult your Cat dealer for details.

<table>
<thead>
<tr>
<th>BULLDOZER INSTALLATION PACKAGES</th>
<th>OTHER BULLDOZER ATTACHMENTS</th>
<th>SPECIAL ARRANGEMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard lift cylinders</td>
<td>Dual tilt arrangement</td>
<td>Waste Handler Arrangement</td>
</tr>
<tr>
<td>8A bulldozer</td>
<td>Black paint on back of dozer blade</td>
<td>Stockpile Arrangement</td>
</tr>
<tr>
<td>8 SU/U dozer, single tilt</td>
<td></td>
<td>ROPS Omission Arrangement</td>
</tr>
<tr>
<td>8 SU/U dozer, single tilt guarded</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 SU/U dozer, dual tilt guarded</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 LGP dozer single tilt</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 LGP dozer single tilt guarded</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8 LGP dozer dual tilt guarded</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>REAR ATTACHMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drawbar, rigid</td>
</tr>
<tr>
<td>Rear counterweight</td>
</tr>
<tr>
<td>Rear counterweight, additional</td>
</tr>
<tr>
<td>Rear striker bars</td>
</tr>
<tr>
<td>Ripper single-shank</td>
</tr>
<tr>
<td>Ripper multi-shank</td>
</tr>
<tr>
<td>Ripper, single- or multi-shank</td>
</tr>
<tr>
<td>with striker bar</td>
</tr>
<tr>
<td>Pin puller</td>
</tr>
<tr>
<td>Tooth, multi-shank ripper</td>
</tr>
<tr>
<td>Tooth, deep ripping</td>
</tr>
<tr>
<td>Winch – variable speed</td>
</tr>
</tbody>
</table>