

Product Specifications For D8



Engine

Engine Model	Cat® C15
Power - Net	271 kW
Net Power - ISO 9249/SAE J1349	271 kW
Net Power - ISO 9249 (DIN)	368 mhp
Build Number	22A
Emissions	U.S. EPA Tier 4 Final/ EU Stage V/Japan 2014/Korea Stage V/China Nonroad Stage IV
Note (1)	Net power at 2,050 rpm. 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. Advertised power is tested per the specified standard in effect at the time of manufacture.
Note (2)	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: 20% biodiesel FAME (fatty acid methyl ester)* or 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels. Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details. * 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).

Weights

Operating Weight	39500 kg
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Transmission

Powertrain	Fully Automatic 4-Speed with Lock-up Clutch (LUC) torque divider
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Service Refill Capacities

Fuel Tank	627 l
DEF Tank	33 l

Standard SU

Operating Weight	39500 kg
Ground Pressure	89.7 kPa
Width of Standard Shoe	610 mm
Blade	Semi-Universal (SU)
Blade Capacity	10.3 m ³

LGP

Operating Weight	38085 kg
Ground Pressure	54.6 kPa
Width of Standard Shoe	965 mm
Blade	LGP Semi-Universal (SU)
Blade Capacity	9.9 m ³

Waste Handler

Operating Weight	39900 kg
Ground Pressure	83.7 kPa
Width of Standard Shoe	660 mm
Blade	Semi-Universal (SU) Landfill
Blade Capacity	21.2 m ³

LGP Waste Handler

Operating Weight	41545 kg
Ground Pressure	59.6 kPa
Width of Standard Shoe	965 mm
Blade	Semi-Universal (SU) Landfill
Blade Capacity	21.2 m ³

Sustainability

Recyclability	98%
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Air Conditioning System

Air Conditioning	The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. See the label or instruction manual for identification of the gas. - If equipped with R134a (Global Warming Potential = 1430), the system contains 1.36 kg (3 lb) of refrigerant which has a CO2 equivalent of 1.95 metric tonnes (2.14 tons).
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D8 Standard Equipment

NOTE

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

Powertrain

Cat® C15 Engine

Fully-automatic 4-speed transmission with lock-up clutch (LUC) torque divider

Aftercooler, air-to-air (ATAAC)

Extended life coolant

Diesel exhaust fluid (DEF) system - electronic fill indicator, heated lines/tank

Differential steering

Engine air filter with electronic service indicator

Engine air precleaner with dust ejection

Engine idle shutdown

Final drives, double reduction - Standard or LGP

Fuel water separator

Fuel priming pump, electric

Fan, hydraulic demand

Fan, auto reversing
Radiator, aluminum bar plate with debris resistant cores
High performance single plane cooling system
Starting aid, automatic ether

Cat Technology

Cat Slope Indicate
Cat Assist with ARO package
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
Remote Flash/Troubleshoot
Cat Track Wear Sensor
Machine security - passcode
Remote control ready

Operator Environment

Fully redesigned cab with integrated ROPS and FOPS, single pane door glass, sliding windows, with Cat
Advanced Cabin Filtration
Full-color 254 mm (10 in) liquid crystal touchscreen display
High definition rear view camera with backup lines
In-display key machine features
Operator ID/operator ID with security
Cloth seat with mechanical adjustable lumbar support
Armrests adjustable fore-aft and vertically
Electrohydraulic implement and steering controls
Joystick control - ARO
Decelerator pedal
Fresh air filter
Cab mounted modular HVAC system with automatic reversing fans. Automatic temperature and blower control with distributed ducting.
Rearview mirror
Retractable 76 mm (3 in) seat belt
Cup holders
Dash foot pads
Entertainment radio with Bluetooth and microphone
Lunch box storage
Wipers
USB and AUX ports
Operator presence switch

Guarding And Screens

Bottom guards - standard

Electrical

Lights - 6 LED
Access/egress lighting with shutdown timer
Backup alarm
Converter: 15 Amp, 12V outlets
Forward warning horn

Hydraulics

Load sensing hydraulics
Independent steering and implement pumps
Dozer tilt hydraulics - single tilt
Guarded blade hydraulic hoses
Electronically enabled quick drop valve
Rear hydraulics ripper and winch ready

Batteries, Starters, Alternators, And Coolant

150 Amp alternator
24 Volt starter
Engine coolant, -37° C (-35° F)
Four maintenance free 12-volt batteries (900 cca) (24-volt system)

Push Arms

Standard

Undercarriage

Standard or low ground pressure (LGP) undercarriage
Heavy duty with positive pin retention (PPR) undercarriage - 44 section track, sealed and lubricated, single grouser shoes
Suspension-type undercarriage
Carrier rollers
Hydraulic track adjusters
Lifetime lubricated track and roller
Moderate service track shoes
Track guide
Sprocket rim segments, replaceable
8-roller tubular track roller frame (carrier roller ready)
Two-piece master links

Service And Maintenance

30-minute cab removal
Centralized, remote mounted pressure taps
Ecology drains
Extended service intervals (500 hours engine, 1,000-hour powertrain)
Ground level service center (remote electrical disconnect, secondary shutdown switch, hour meter, jump start)
Heavy duty perforated radiator doors, louvered and hinged
Under hood work light

Removable engine enclosures, perforated and hinged
Scheduled Oil Sampling (S·O·SSM) ports
Shovel holder

D8 Optional Equipment

Note

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

Powertrain

Brakes, extreme service
Engine air precleaner with screen and dust ejector
Engine with thermal shield
Final drives, double reduction - Arctic, Waste
Oil change system, high speed
Sound suppression
Starting aid, jacket water heater (110V or 220V)

Cat Technology

Cat Grade 3D Ready with Assist package (hardware only)
Cat Grade 3D with Assist package
Product Link™ – dual mode
Grade connectivity
Grade corrections radio
Machine security - Bluetooth
Cat Command for Dozing

Operator Environment

High debris cab, fully redesigned with integrated ROPS and FOPS, impact resistant polycarbonate doors, solid side windows for improved sealing, powered precleaner with Cat Advanced Cabin Filtration for improved performance and filter life
Cab glass capable of withstanding up to 40 psi
Deluxe leather heated/ventilated seat with electronic adjustable lumbar support
Powered fresh air filter precleaner
Communication radio ready
Floor plate and pedals for shorter operators
Emergency hammer
Window shades

Undercarriage

Heavy duty extended life (HDXL) with PPR undercarriage - 44 section track, sealed and lubricated, single grouser shoes
Waste undercarriage
Arctic undercarriage
Extreme service track shoes

Blades

Semi-Universal (SU)
Universal
Waste/Landfill
Angle
Rock guard/wear plate
Push plate
FirstCut cutting edges (SU blades)

Push Arms

Extreme

Hydraulics

Dozer tilt hydraulics – dual tilt

Electrical

Premium lights – 12 LED
Beacon warning light

Batteries, Starters, Alternators And Coolant

150 Amp ducted alternator
Arctic engine coolant, -51° C (-60° F)

Service And Maintenance

Fast fuel fill
High-speed oil change
Heavy duty radiator doors for waste and woodchip applications
Quick access cab floor

Attachments

Multi-shank ripper with CapSure ripper tips and shank protector
Single shank ripper with CapSure ripper tip and shank protector
Pin puller (single shank)
Rear striker box with striker bar
Rear striker bar
Winch, PV140
Rear counterweight
Drawbar

Guarding And Screens

Bottom guards - heavy duty, powered, sealed
Cab rear screen - fixed or hinged
Cab side screens - hinged

Fuel tank guards

HVAC guard

Light guards

Striker bars, front, suspended

Sweeps package