Cat® D2

Dozer

FEATURES:

The Cat® D2 delivers superior performance and the broadest choice of technology features to help you get the most from your dozer. Nimble and responsive, it has power for dozing and finesse for grading. Fully hydrostatic transmission gives you seamless acceleration, so you can get the job done quickly. The load sensing system automatically optimizes ground speed based on load, for the greatest productivity and fuel efficiency.

IMPROVED VISIBILITY

- The sloped hood provides better visibility to the work in front of the blade as well as the overall jobsite. Better visibility can equal less operator fatigue and more confidence in your work.

ENHANCED TECHNOLOGY

Cat small dozers include a suite of Operator Assist features that work seemlessly to save time, effort, fuel, machine wear and overall costs. Cat Grade with Assist is an optional technology available for small dozers.

- **Steer Assist** automates track steering with light or heavy loads and automates blade tilt steering to help push heavy loads with less effort. This feature helps reduce operator inputs by up to 75% and enhances operator efficiency and productivity. Steer Assist is standard with Assist with Attachment Ready Option (ARO). Steer Assist 3D is standard with Cat Grade 3D with Assist.
- **Stable Blade Lift and Tilt** automatically works behind the scenes to allow operators to create smooth surfaces with less effort using accelerometers on the blade and chassis with an advanced algorithm to make minor blade raise and lower movements. Stable Blade Lift and Tilt is standard with Assist with ARO and Cat Grade 3D with Assist.
- **Blade Load Monitor** provides real-time feedback of current load vs. target load to fully utilize machine capacity benefiting operators of all skills levels. Automatically compensates for ground conditions. This feature is not available indoors or in areas where a GPS signal is not available. Blade Load Monitor is standard with Assist with ARO and Grade 3D with Assist.
- **Low Slip Traction Control** prevents excessive track slip to improve machine efficiency and reduce burden on the operator. Feature offers two modes: Normal mode helps when pushing heavy blade loads by limiting non-productive track slip, recommended for most applications. And Low Slip mode limits track slip for applications sensitive to slip such as spreading material on top of a liner, select this mode when needed. Traction Control is standard with Assist with ARO and Grade 3D with Assist.
- **AutoCarry™** raises and lowers the blade to maximize pushing capability and prevent excessive track slip when pushing heavy loads. Feature is designed to work in unison with other Operator Assist Features. Not available indoors or in areas where a GPS signal is not available. AutoCarry is standard with Assist with ARO and Grade 3D with Assist.
- **Scalable Cat Grade 2D and 3D with Assist** is an optional feature that makes your job up to 39% faster with up to 82% fewer operator inputs and less rework by maintaining blade angles for better surface quality – even with less experienced operators.
- **Cat Command** remote control is an optional feature that takes you off the machine and away from hazardous conditions, dust, noise or vibration, or operating on unstable surfaces. Eliminates risk of injury from climbing on or off the machine. Integrated with dozer systems, Cat Command enables smooth, precise control with access to all machine functions and advanced features (if equipped) for maximum efficiency and productivity. Availability varies by region.

UP TO 10% IMPROVED FUEL ECONOMY*

- The D2 features the lowest fuel consumption in this size class with the same great performance you've come to expect. Up to 20% improvement and no performance sacrifice when Eco mode is active.

COMFORTABLE WORK SPACE

- The spacious and comfortable cab features an optional heated and ventilated seat, along with heated joystick controls to make the operator comfortable no matter what the conditions are outside. The seat height and armrests can be easily adjusted to the operator's preference.

BIGGER, BETTER DISPLAY WITH CAMERA

- This new and improved optional 254 mm (10 in) color display touchscreen is easy to use, with a great view of machine settings, rearview camera and Slope Indicate/Slope Assist™ screens. The large reversing camera gives the operator better visibility to the jobsite.

DURABLE UNDERCARRIAGE

- The D2 is available with either a Heavy Duty (HD) or Abrasion undercarriage to best suit your application. The undercarriage has a longer life resulting in less down time. A one piece mainframe/track roller frame design and the large, double reduction planetary final drive allow the machine to push heavy loads.

*Compared to previous models

Specifications

Engine

Engine model	Cat® C3.6	
Net power @ 2,200 rpm		
SAE J1349	68.8 kW	92 hp
ISO 9249, 80/1269/EEC	68.8 kW	92 hp
Powertrain	Hydrostatic	
Displacement	3.6 L	220 in^3

- Net power is tested per ISO 9249:2007 and SAE J1349:2011 and, as advertised, is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system and alternator.
- All non-road U.S. EPA Tier 4 Final, EU Stage V, Japan 2014 (Tier 4 Final) and Korea Stage V diesel engines are required to use only Ultra Low Sulfur Diesel (ULSD) fuels containing 15 ppm EPA/10 ppm EU (mg/kg) sulfur or less.

Weights

Operating weight	8338 kg	18,382 lb
Operating weight – LGP	8648 kg	19,066 lb

- Specifications shown are for machine equipped with dozer blade, Enclosed Roll Over Protective Structure (EROPS) cab, back-up alarm, operator, coolant, lubricants and full fuel tank.
- For machine with ripper, add 554 kg (1,222 lb).

Cab

Rollover Protective Structure (ROPS)	ISO 3471:2008
Falling Object Protective Structure (FOPS)	ISO 3449:2005 Level II

Transmission

Drive pumps	1	
Track motors	2	
Relief valve settings	48 500 kPa	7,033 psi
Maximum travel speed – forward	9 km/h	5.6 mph
Maximum travel speed – reverse	10 km/h	6.2 mph

Undercarriage

Number of rollers (each side)	7	
Number of shoes (each side) – Heavy Duty (HD) undercarriage	43	
Number of shoes (each side) – Abrasion undercarriage	38	
Shoe width	460 mm	18 in
Shoe width – LGP	635 mm	25 in
Length of track on ground	2248 mm	89 in
Length of track on ground – LGP	2248 mm	89 in
Track gauge	1550 mm	61 in
Track gauge – LGP	1725 mm	68 in
Ground pressure	39.5 kPa	5.7 psi
Ground pressure – LGP	29.7 kPa	4.3 psi

Service Refill Capacities

Fuel tank	195 L	51.5 gal
Crankcase and filter	10.5 L	2.8 gal
Final Drives, (each side)	10 L	2.6 gal
Final Drives, LGP (each side)	10 L	2.6 gal
Cooling system	19 L	5.0 gal
Transmission/hydraulic tank	90 L	23.8 gal
Diesel Exhaust Fluid (DEF) tank	19 L	4.9 gal

Specifications *(continued)*

Hydraulic Controls

Pump output	65 L/min	17.2 gal/min
Relief valve settings	20 600 kPa	2,988 psi

Ripper

Type	Parallelogram	
Number of shanks	3	
Maximum digging depth	337.5 mm	13.3 in
Maximum reach at ground line	766 mm	30.2 in
Maximum ground clearance under tip	448 mm	17.6 in
Overall width	1710 mm	67.3 in
Height	165 mm	6.5 in
Weight	554 kg	1,222 lb

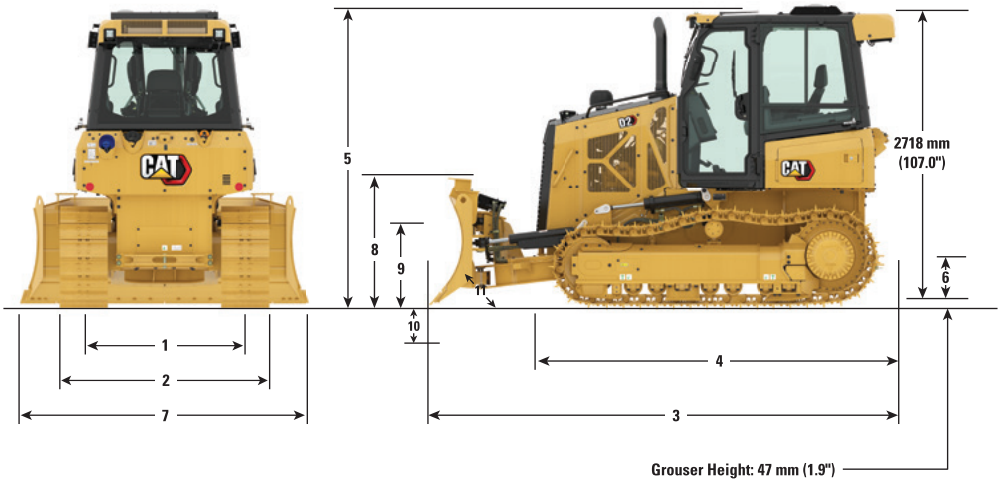
High Performance Winch

Weight	610 kg	1,345 lb
Winch drive	Hydrostatic	
Control	Hydraulic	
Speed	Variable	
Winch length	705 mm	27.76 in
Overall width	741 mm	29.2 in
Drum diameter	254 mm	10 in
Drum width	274 mm	10.8 in
Throat clearance	171.5 mm	6.75 in
Rope diameter – recommended	16 mm	0.63 in
Rope diameter – optional	19 mm	0.75 in
Drum capacity – recommended cable	113 m	371 ft
Drum capacity – optional cable	78 m	256 ft
Maximum line pull – bare drum	18 144 kg	40,000 lb
Maximum line pull – full drum	11 340 kg	25,000 lb
Maximum line speed – bare drum	40 m/min	131 ft/min
Maximum line speed – full drum	63 m/min	207 ft/min

Retrieval Winch

Weight	794 kg	1,747 lb
Winch drive	Hydraulic	
Control	Hydraulic	
Speed	Variable	
Winch length	905 mm	35.63 in
Overall width	709 mm	27.91 in
Drum diameter	203.2 mm	8 in
Drum width	245 mm	9.65 in
Throat clearance	141.4 mm	5.6 in
Rope diameter – recommended	16 mm	5/8 in
Rope diameter – optional	19 mm	3/4 in
Drum capacity – recommended cable	84 m	277 ft
Drum capacity – optional cable	59 m	195 ft
Maximum line pull – bare drum	14 583 kg	32,150 lb
Maximum line pull – full drum	9231 kg	20,350 lb
Maximum line speed – bare drum	15 m/min	50 ft/min
Maximum line speed – full drum	24 m/min	79 ft/min

D2 Dozer



Dimensions*

	Standard		LGP	
1 Track gauge	1550 mm	61.0 in	1725 mm	67.9 in
2 Width of dozer (standard shoes, no blade)	2010 mm	79.1 in	2360 mm	92.9 in
3 Overall length (with blade)	4281 mm	168.5 in	4272 mm	168.2 in
4 Length of basic dozer (without blade)	3290 mm	129.5 in	3290 mm	129.5 in
5 Dozer height	2765 mm	108.9 in	2765 mm	108.9 in
6 Ground clearance	332 mm	13 in	332 mm	13 in
With ripper attachment (add to length of basic dozer)	1177 mm	46.3 in	1177 mm	46.3 in
BLADE	**Standard**		**LGP**	
7 Blade width	2782 mm	109.5 in	3149 mm	124 in
8 Blade height	1010 mm	39.8 in	910 mm	35.8 in
9 Blade lift height	743 mm	29.3 in	708 mm	27.9 in
10 Digging depth	593 mm	23.3 in	589 mm	23.2 in
11 Blade cutting edge angle, adjustable	52° to 58°		52° to 58°	
Maximum tilt	387 mm	15.2 in	438 mm	17.2 in
Maximum angle (either side)	25°		25°	
Blade width at maximum angle	2542 mm	100.1 in	2874 mm	113.1 in
Blade capacity (SAE)	1.98 m^3	2.59 yd^3	1.85 m^3	2.42 yd^3

*Abrasion Undercarriage

Standard and Optional Equipment

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

	Standard	Optional
POWERTRAIN		
Air cleaner with pre-cleaner, automatic dust ejection and underhood intake	✓	
Air cleaner with external precleaner		✓
Aluminum bar plate cooling system (radiator, powertrain)	✓	
Automatic traction control	✓	
Cat C3.6 diesel engine	✓	
Drive, auxiliary	✓	
Dual path, closed loop, hydrostatic transmission	✓	
Electric fuel pump	✓	
Fuel/water separator	✓	
Installation, winch		✓
Turbocharged aftercooled	✓	
ELECTRICAL		
Alarm, backup	✓	
Alternator, 150 amp, heavy duty	✓	
Batteries, heavy duty, maintenance free, 1,000 CCA	✓	
Diagnostic connector	✓	
Four integrated front halogen lights, two rear halogen	✓	
Four integrated front LED lights, two rear LED		✓
Horn, electric	✓	
Starter, electric, 12 V, heavy duty	✓	
UNDERCARRIAGE		
Heavy Duty (HD) undercarriage (43 section)	✓	
Abrasion undercarriage (38 section)		✓
Track Pairs		
– Track, 460 mm (18 in)		✓
– Track, 635 mm (25 in)		✓
Carrier rollers	✓	
Guards, front/rear guiding	✓	
Seven roller track frame	✓	
Track adjusters, hydraulic	✓	
Track rollers, lifetime lubricated	✓	

	Standard	Optional
HYDRAULIC		
Hydraulic pump and oil	✓	
Four valve for use with ripper		✓
Four valve for use with winch		✓
Single lever, three function control	✓	
Three valve hydraulics	✓	
CAT TECHNOLOGY		
Slope Indicate	✓	
Stable Blade – basic lift	✓	
Assist with Attachment Ready Option (ARO) includes:		✓
– Slope Indicate		
– Blade Load Monitor		
– Stable Blade Lift and Tilt		
– Slope Assist		
– Traction Control		
– Steer Assist		
– AutoCarry		
Cat Grade 3D with Assist includes:		✓
– Same Assist with ARO features above		
– Steer Assist 3D		
– Cat Grade 3D		
Third party 3D grade system compatible	✓	
Cat Product Link™ PLE643/PLE743 Cellular	✓	
Cat Product Link PLE683/PLE783 Cellular/ Satellite		✓
Full-color 254 mm (10 in) touchscreen grade display		✓
Cat Command console (availability varies by region)		✓
Cat Command station (availability varies by region)		✓

(continued on next page)

Standard and Optional Equipment *(continued)*

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

	Standard	Optional
ATTACHMENTS		
Rigid drawbar	✓	
Drawbar, towing		✓
Front pull device	✓	
Machine security system		✓
Mounting, winch		✓
Ripper, parallelogram, includes three shanks and teeth		✓
Winch, hydraulic, high performance		✓
Winch, hydraulic, retrieval		✓
OPERATOR ENVIRONMENT		
Armrests, adjustable	✓	
Cab, with air conditioning		✓
Cab, polycarbonate windows and air conditioning		✓
Coat hook	✓	
Controls, seat mounted, fore/aft adjustment	✓	
Cup holders	✓	
Eco mode	✓	
Electronic monitoring system with gauge:		
– Chassis slope indication	✓	
– Diesel exhaust fluid (DEF)	✓	
– Engine coolant temperature	✓	
– Fuel level	✓	
– Hydraulic oil temperature	✓	
Electronic security system	✓	
Engine air cleaner service indicator	✓	
Engine RPM and gear display	✓	
Floor mat, rubber, heavy duty	✓	
Foot pads, dash	✓	
Hour meter, electronic	✓	
Independent forward/reverse speed settings	✓	
Mirror, rearview, inside	✓	
Power Pitch		✓
Power port, 12 volt	✓	
Radio, AM/FM Bluetooth®		✓
ROPS/FOPS canopy	✓	

	Standard	Optional
OPERATOR ENVIRONMENT *(continued)*		
Seat, air suspended, cloth or vinyl	✓	
Seat, air suspension, choice of:		
– Vinyl, heated seat with heated controls		✓
– Cloth, heated seat with heated controls		✓
– Cloth, heated and ventilated seat with heated controls		✓
Seatbelt, hi-vis retractable 76 mm (3")	✓	
Seatbelt buckling indicator/reminder	✓	
Single pedal combining decel and brake functions	✓	
Sound suppression		✓
Speed recall	✓	
Storage compartment	✓	
Throttle switch, rotary	✓	
Travel speed limiter, electronic	✓	
OTHER		
Heater, engine, coolant 120 V/240 V		✓
Starting aid, ether		✓

D2 Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit https://www.caterpillar.com/en/company/sustainability.

Engine

- The Cat® C3.6 engine meets U.S. EPA Tier 4 Final and EU Stage V, and Japan 2014 emission standards.
- 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)*
  - ✓ 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).*

  ***Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.*

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf (Europe). See label or instruction manual for gas refrigerant identification. If machine is equipped with R134a (Global Warming Potential = 1430), the system contains 1.8 kg (4.0 lbs) of refrigerant, which has a CO_2 equivalent of 2.574 metric tonnes (2.873 tons). If machine is equipped with R1234yf (Global Warming Potential = 0.501), the system contains 1.7 kg (3.75 lbs) of refrigerant, which has a CO_2 equivalent of less than 0.001 metric tonnes (0.001 tons).

Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
  - Barium < 0.01%
  - Cadmium < 0.01%
  - Chromium < 0.01%
  - Lead < 0.01%

Sound Performance

With cooling fan speed at 70% of the maximum value:

Guaranteed Exterior Sound Power (2000/14/EC ISO 6395:2008) – 109 dB(A)
Dynamic Operator Sound Pressure Level (ISO 6396:2008) – 76 dB(A)

- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in a noisy environment.

Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
  - Eco mode minimizes fuel consumption for light applications
  - Save fuel with efficiency features such as engine idle shutdown
  - Extended maintenance intervals reduce fluid and filter consumption
  - Cut maintenance costs with extended maintenance intervals
  - Boost productivity up to 50% with Cat technologies like Slope Indicate, Stable Blade Lift and Tilt, Steer Assist, Blade Load Monitor, Traction Control, AutoCarry and Grade 3D with Assist (features vary based on technology package selected).
  - Remote Flash and Remote Troubleshoot

Recycling

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	81.19%
Iron	8.48%
Nonferrous Metal	3.29%
Uncategorized	1.87%
Fluid	1.52%
Other	1.36%
Mixed Metal	0.87%
Plastic	0.64%
Mixed-Metal and Nonmetal	0.60%
Rubber	0.18%
Mixed Nonmetallic	0%
Total	100.00%

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714 (Earth-moving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused or both.

  All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

  Because of variations of product configurations, the following values in the table may vary.

  Recyclability – 98%

  The data provided above was based on the product configuration as provided by the individual product group.

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at **www.cat.com**

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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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