



Cat[®] D1

DOZER

FEATURES:

The new Cat[®] D1 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

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

GRADE TECHNOLOGY

- Scalable 2D and 3D Cat Grade provide technologies like Slope Assist, Stable Blade, and Slope Indicate for easier and more efficient operation, as well as the flexibility to adapt different technology based on job site demands.

UP TO 10% IMPROVED FUEL ECONOMY

- The D1 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 10 in (254 mm) touchscreen, color display 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 job site.

DURABLE UNDERCARRIAGE

- The D1 is available with either a Sealed and Lubricated Track (SALT) 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.

Specifications

Engine

Engine Model	Cat C3.6		
Net Power @ 2,200 rpm			
SAE J1349	59.7 kW	80 hp	
ISO 9249/EEC 80/1269	59.7 kW	80 hp	
Power Train	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.
- Engine equivalent to Tier 3 emission standards.

Weights

Operating Weight	8099 kg	17,855 lb
Operating Weight – LGP	8545 kg	18,839 lb
Operating Weight – LGP, 762 mm/30 in	8752 kg	19,295 lb

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

Cab

ROPS	ISO 3471:2008
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



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Undercarriage

Number of Rollers (each side)	6	
Number of Shoes (each side) – Sealed and Lubricated Track (SALT) Undercarriage	43	
Number of Shoes (each side) – Abrasion Undercarriage	38	
Shoe Width	406 mm	16 in
Shoe Width – LGP	635 mm	25 in
Shoe Width – LGP, 762 mm (30 in)	762 mm	30 in
Length of Track on Ground	2248 mm	89 in
Length of Track on Ground – LGP	2248 mm	89 in
Length of Track on Ground – LGP, 762 mm (30 in)	2248 mm	89 in
Track Gauge	1495 mm	59 in
Track Gauge – LGP	1725 mm	68 in
Track Gauge – LGP, 762 mm (30 in)	1860 mm	73 in
Ground Pressure	44.5 kPa	6.45 psi
Ground Pressure – LGP	29.9 kPa	4.3 psi
Ground Pressure – LGP, 762 mm (30 in)	25.5 kPa	3.7 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	4.2 gal
Transmission/Hydraulic Tank	90 L	23.8 gal

Hydraulic Controls

Pump Output	65 L/min	17.2 gal/min
Relief Valve Settings	20 600 kPa	2,988 psi

Ripper

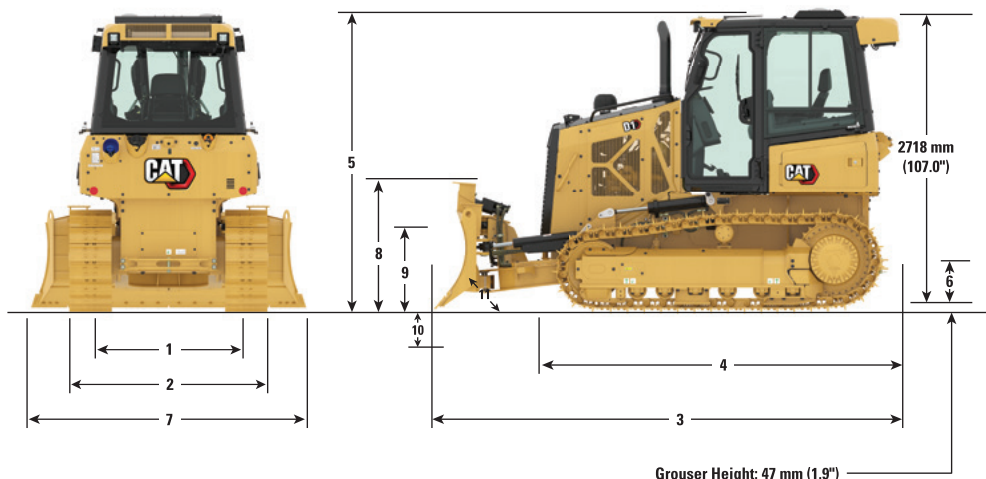
Type	Parallelogram	
Number of Shanks	3	
Maximum Digging Depth	337.5 mm	13.3 in
Maximum Reach at Ground Line	766 mm	30.2 in
Maximum Ground Clearance Under Tip	448 mm	17.6 in
Overall Width	1710 mm	67.3 in
Height	165 mm	6.5 in
Weight	554 kg	1,222 lb

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

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.8 kg of refrigerant which has a CO₂ equivalent of 2.574 metric tonnes.



Dimensions*

	Standard		LGP		LGP, 762 mm (30 in)	
1 Track Gauge	1495 mm	58.9 in	1725 mm	67.9 in	1860 mm	73 in
2 Width of Dozer (standard shoes, no blade)	1900 mm	74.8 in	2360 mm	92.9 in	2411 mm	94.9 in
3 Overall Length (with blade)	4273 mm	168 in	4262 mm	167.8 in	4262 mm	167.8 in
4 Length of Basic Dozer (without blade)	3291 mm	129.6 in	3291 mm	129.6 in	3291 mm	129.6 in
5 Dozer Height	2765 mm	108.9 in	2765 mm	108.9 in	2765 mm	108.9 in
6 Ground Clearance	332 mm	13 in	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	1177 mm	46.3 in
BLADE	Standard		LGP			
7 Blade Width	2646 mm	104.2 in	3149 mm	124 in		
8 Blade Height	910 mm	35.8 in	860 mm	33.8 in		
9 Blade Lift Height	730 mm	28.7 in	730 mm	28.7 in		
10 Digging Depth	589 mm	23.2 in	583 mm	23.0 in		
11 Blade Cutting Edge Angle, Adjustable	52° to 58°		52° to 58°			
Maximum Tilt	368 mm	14.5 in	438 mm	17.2 in		
Maximum Angle (either side)	25°		25°			
Blade Width at Maximum Angle	2417 mm	95.2 in	2874 mm	113.1 in		
Blade Capacity (SAE)	1.52 m ³	1.99 yd ³	1.99 m ³	2.17 yd ³		

*Abrasion Undercarriage

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Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
POWER TRAIN			ATTACHMENTS		
Air cleaner with precleaner, automatic dust ejection and underhood intake	✓		Rigid drawbar	✓	
Air cleaner with external precleaner		✓	Drawbar, towing		✓
Aluminum bar plate cooling system (radiator, power train)	✓		Front pull device	✓	
Automatic traction control	✓		Machine security system		✓
Cat C3.6 diesel engine	✓		Mounting, winch		✓
Drive, auxiliary	✓		Ripper, parallelogram, includes three shanks and teeth		✓
Dual path, closed loop, hydrostatic transmission	✓		Winch, hydraulic, high performance		✓
Electric fuel pump	✓		Winch, hydraulic, retrieval		✓
Fuel/water separator	✓		OPERATOR ENVIRONMENT		
Installation, winch		✓	Armrests, adjustable	✓	
Turbocharged aftercooled	✓		Cab, with air conditioning		✓
ELECTRICAL			Cab, polycarbonate windows and air conditioning		✓
Alarm, backup	✓		Coat hook	✓	
Alternator, 150 amp, heavy duty	✓		Controls, seat mounted, fore/aft adjustment	✓	
Batteries, heavy duty, maintenance free, 1,000 CCA	✓		Cup holders	✓	
Diagnostic connector	✓		Eco Mode	✓	
Four integrated front halogen lights, two rear halogen	✓		Electronic Monitoring system with gauge:		
Four integrated front LED lights, two rear LED		✓	– Chassis slope indication	✓	
Horn, electric	✓		– Engine coolant temperature	✓	
Starter, electric, 12 V, heavy duty	✓		– Fuel level	✓	
UNDERCARRIAGE			– Hydraulic oil temperature	✓	
SALT undercarriage (43 section)	✓		Electronic security system	✓	
Abrasion undercarriage (38 section)		✓	Engine air cleaner service indicator	✓	
Track Pairs			Engine RPM and gear display	✓	
– Track, 406 mm (16 in)		✓	Floor mat, rubber, heavy duty	✓	
– Track, 635 mm (25 in)		✓	Foot pads, dash	✓	
– Track, 762 mm (30 in)		✓	Hour meter, electronic	✓	
Carrier rollers	✓		Independent forward/reverse speed settings	✓	
Guards, front/rear guiding	✓		Mirror, rearview, inside	✓	
Six roller track frame	✓		Power port, 12 volt	✓	
Track adjusters, hydraulic	✓		Radio, AM/FM Bluetooth®		✓
Track rollers, lifetime lubricated	✓		ROPS/FOPS canopy	✓	
HYDRAULIC			Seat, air suspended, cloth or vinyl	✓	
Hydraulic pump and oil	✓		Seat, air suspension, choice of:		
Four valve for use with ripper		✓	– Vinyl, heated seat with heated controls		✓
Four valve for use with winch		✓	– Cloth, heated seat with heated controls		✓
Single lever, three function control	✓		– Cloth, heated and ventilated seat with heated controls		✓
Three valve hydraulics	✓		Seatbelt, hi-vis retractable 76 mm (3")	✓	
CAT TECHNOLOGY			Seatbelt buckling indicator/reminder	✓	
Cat Grade with Slope Assist		✓	Single pedal combining decel and brake functions	✓	
Cat Grade with 3D		✓	Sound suppression		✓
Compatibility with radios and base stations from Trimble, Topcon, and Leica	✓		Speed recall	✓	
Capability to install 3D grade systems from Trimble, Topcon, and Leica	✓		Storage compartment	✓	
Cat Product Link™ PLE643/PLE743 Cellular	✓		Throttle switch, rotary	✓	
Cat Product Link PLE683/PLE783 Cellular/Satellite		✓	Travel speed limiter, electronic	✓	
Full-color 10 in (254 mm) touchscreen grade display		✓	OTHER		
Power Pitch		✓	Heater, engine, coolant 120 V/240 V		✓
Slope Indicate	✓		Starting aid, ether		✓
Stable blade	✓				

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