

Product Specifications For D1



Engine

Engine Model	Cat C3.6
Power - Net	80 hp
Displacement	220 in ³
Net Power - 2,200 rpm - SAE J1349	80 hp
Net Power - 2,200 rpm - ISO 9249/EEC 80/1269	80 hp
Note (1)	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.
Note (2)	All non-road U.S. EPA Tier 4 Final, EU Stage V, Japan 2014 (Tier 4 Final) and Korea Tier 4 Final 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	17855 lb
Operating Weight - LGP	18839 lb
Note (1)	Specifications shown are for machine equipped with dozer blade, EROPS cab, back-up alarm, operator, coolant, lubricants and full fuel tank.
Operating Weight - LGP, 762 mm/30 in	19295 lb
Note (2)	For machine with ripper, add 554 kg (1,222 lb).

Transmission

Drive Pumps	1
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Maximum Travel Speed - Reverse	6.2 mile/h
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Relief Valve Settings	7033 psi
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Maximum Travel Speed - Forward	5.6 mile/h
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Track Motors	2
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Hydraulic Controls

Pump Output	17.2 gpm
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Relief Valve Settings	2988 psi
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Ripper

Type	Parallelogram
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Number of Shanks	3
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Height	6.5 in
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Weight	1222 lb
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Maximum Ground Clearance Under Tip	17.6 in
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Maximum Digging Depth	13.3 in
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Overall Width	67.3 in
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Maximum Reach - Ground Line	30.2 in
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Engine

Power Train	Hydrostatic
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Cab

FOPS

ISO 3449:2005 Level II

ROPS

ISO 3471:2008

Undercarriage

Length - Track on Ground - LGP, 762 mm (30 in)	89 in
Length - Track on Ground - LGP	89 in
Track Gauge - LGP	68 in
Shoe Width - LGP, 762 mm (30 in)	30 in
Track Gauge - LGP, 762 mm (30 in)	73 in
Shoe Width - LGP	25 in
Track Gauge	59 in
Shoe Width - Standard	16 in
Ground Pressure - LGP	4.3 psi
Ground Pressure - LGP, 762 mm (30 in)	3.7 psi
Number of Shoes - Each Side - Sealed and Lubricated Track (SALT) Undercarriage	43
Number of Rollers - Each Side	6

Undercarriage

Length of Track on Ground	89 in
Number of Shoes - Each Side - Abrasion Undercarriage	38
Ground Pressure	6.45 psi

Service Refill Capacities

Final Drive - Each - LGP	2.6 gal (US)
Cooling System	4.2 gal (US)
Diesel Exhaust Fluid (DEF) Tank	4.9 gal (US)
Transmission - Hydraulic Tank	23.8 gal (US)
Crankcase - With Filter	2.8 gal (US)
Fuel Tank	51.5 gal (US)

Service Refill Capacities

Final Drives - Each Side	2.6 gal (US)
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Air Conditioning System

Air Conditioning	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.
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Dimensions

BLADE: Blade Capacity (SAE) - LGP	2.17 yd ³
BLADE: Blade Lift Height - LGP	28.7 in
BLADE: Maximum Tilt - LGP	17.2 in
BLADE: Blade Width - LGP	124 in
Ground Clearance - LGP	13 in
BLADE: Blade Width at Maximum Angle - LGP	113.1 in
BLADE: Digging Depth - LGP	23 in
Track Gauge - LGP	67.9 in

Ground Clearance - LGP, 762 mm (30 in)	13 in
BLADE: Blade Height - LGP	33.8 in
Overall Length - With Blade - LGP, 762 mm (30 in)	167.8 in
Track Gauge - LGP, 762 mm (30 in)	73 in
BLADE: Blade Cutting Edge Angle, Adjustable - LGP	52° to 58°
BLADE: Maximum Angle (either side) - LGP	25°
Overall Length - With Blade - LGP	167.8 in
Note	*Abrasion Undercarriage
Length of Basic Dozer (without blade) - LGP, 762 mm (30 in)	129.6 in
Width of Dozer (standard shoes, no blade) - Standard	74.8 in
Length of Basic Dozer (without blade) - Standard	129.6 in
Length of Basic Dozer (without blade) - LGP	129.6 in
Width of Dozer (standard shoes, no blade) - LGP, 762 mm (30 in)	94.9 in
Dozer Height - LGP	108.9 in
Width of Dozer (standard shoes, no blade) - LGP	92.9 in
Dozer Height - LGP, 762 mm (30 in)	108.9 in
Dozer Height - Standard	108.9 in

Dimensions

BLADE: Blade Width at Maximum Angle - Standard	95.2 in
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BLADE: Digging Depth - Standard	23.2 in
BLADE: Blade Width - Standard	104.2 in
BLADE: Blade Lift Height - Standard	28.7 in
Ground Clearance - Standard	13 in
BLADE: Blade Cutting Edge Angle, Adjustable - Standard	52° to 58°
BLADE: Maximum Angle (either side) - Standard	25°
BLADE: Maximum Tilt - Standard	14.5 in
BLADE: Blade Capacity (SAE) - Standard	1.99 yd ³
Track Gauge - Standard	58.9 in
BLADE: Blade Height - Standard	35.8 in
Overall Length - With Blade - Standard	168 in
Note	With Ripper Attachment (add to Length of Basic Dozer) - 1177 mm (46.3 in)

Retrieval Winch

Weight	1747 lb
Maximum Line Pull - Full Drum	79 ft/min
Drum Capacity - Recommended Cable	277 ft
Maximum Line Pull - Bare Drum	50 ft/min
Drum Capacity - Optional Cable	195 ft

Maximum Line Speed - Full Drum	20350 lb
Control	Hydraulic
Maximum Line Speed - Bare Drum	32150 lb
Rope Diameter - Optional	0.75 in
Winch Drive	Hydraulic
Rope Diameter - Recommended	0.63 in
Speed	Variable
Drum Diameter	8 in
Drum Width	9.65 in
Throat Clearance	5.6 in
Winch Length	35.63 in
Overall width	27.91 in

High Performance Winch

Weight	1345 lb
Drum diameter	10 in
Winch drive	Hydrostatic
Winch length	27.76 in
Maximum line pull – bare drum	40000 lb
Maximum line speed – full drum	207 ft/min

Drum width	10.8 in
Drum capacity – optional	256 ft
Rope diameter – recommended	0.63 in
Maximum line pull – full drum	25000 lb
Rope diameter – optional	0.75 in
Speed	Variable
Maximum line speed – bare drum	131 ft/min
Throat clearance	6.75 in
Drum capacity – recommended cable	371 ft
Overall width	29.2 in
Control	Hydraulic

D1 Standard Equipment

POWER TRAIN

Air cleaner with precleaner, automatic dust ejection and underhood intake
 Aluminum bar plate cooling system (radiator, power train)
 Automatic traction control
 Cat® C3.6 diesel engine
 Drive, auxiliary
 Dual path, closed loop, hydrostatic transmission
 Electric fuel pump
 Fuel/water separator
 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

Horn, electric

Starter, electric, 12 V, heavy duty

UNDERCARRIAGE

Heavy Duty Undercarriage

Carrier rollers

Guards, front/rear guiding

Six roller track frame

Track adjusters, hydraulic

Track rollers, lifetime lubricated

HYDRAULIC

Hydraulic pump and oil

Single lever, three function control

Three valve hydraulics

CAT TECHNOLOGY

Third party 3D grade system compatible

Slope Indicate

Stable Blade - Basic Lift

ATTACHMENTS

Rigid drawbar

Front pull device

OPERATOR ENVIRONMENT

Armrests, adjustable

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 port, 12 volt

ROPS/FOPS canopy
Seat, air suspended, cloth or vinyl
Seatbelt, hi-vis retractable 76 mm (3")
Seatbelt buckling indicator/reminder
Single pedal combining decel and brake functions
Speed recall
Storage compartment
Throttle switch, rotary
Travel speed limiter, electronic

D1 Optional Equipment

POWER TRAIN

Air cleaner with external precleaner
Installation, winch

ELECTRICAL

Four integrated front LED lights, two rear LED

UNDERCARRIAGE

Abrasion undercarriage (38 section)

Track Pairs:

- Track, 406 mm (16 in)
- Track, 635 mm (25 in)
- Track, 762 mm (30 in)

HYDRAULIC

Four valve for use with ripper

Four valve for use with winch

CAT TECHNOLOGY

Assist with Attachment Ready Option (ARO) includes:

- Slope Indicate
- Blade Load Monitor
- Stable Blade Lift and Tilt
- Slope Assist
- Traction Control
- Steer Assist
- AutoCarry

Grade 3D with Assist includes:

- Same Assist with ARO features
- Steer Assist 3D
- Grade 3D

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)

ATTACHMENTS

Drawbar, towing
Machine security system
Mounting, winch
Ripper, parallelogram, includes three shanks and teeth
Winch, hydraulic, high performance
Winch, hydraulic, retrieval

OPERATOR ENVIRONMENT

Power Pitch
Cab, with air conditioning
Cab, polycarbonate windows and air conditioning
Radio, AM/FM Bluetooth®
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
Sound suppression

OTHER

Heater, engine, coolant 120 V/240 V
Starting aid, ether