

Product Specifications For D1



Engine

Engine Model	Cat C3.6
Power - Net	59.7 kW
Displacement	3.6 l
Net Power - 2,200 rpm - SAE J1349	59.7 kW
Net Power - 2,200 rpm - ISO 9249/EEC 80/1269	59.7 kW
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	8099 kg
Operating Weight - LGP	8545 kg
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	8752 kg
Note (2)	For machine with ripper, add 554 kg (1,222 lb).

Transmission

Drive Pumps	1
Maximum Travel Speed - Reverse	10 km/h
Relief Valve Settings	48500 kPa
Maximum Travel Speed - Forward	9 km/h
Track Motors	2

Hydraulic Controls

Pump Output	65 L/min
Relief Valve Settings	20600 kPa

Ripper

Type	Parallelogram
Number of Shanks	3
Height	165 mm
Weight	554 kg
Maximum Ground Clearance Under Tip	448 mm
Maximum Digging Depth	337.5 mm
Overall Width	1710 mm
Maximum Reach - Ground Line	766 mm

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)	2248 mm
Length - Track on Ground - LGP	2248 mm
Track Gauge - LGP	1725 mm
Shoe Width - LGP, 762 mm (30 in)	762 mm
Track Gauge - LGP, 762 mm (30 in)	1860 mm
Shoe Width - LGP	635 mm
Track Gauge	1495 mm
Shoe Width - Standard	406 mm
Ground Pressure - LGP	29.9 kPa
Ground Pressure - LGP, 762 mm (30 in)	25.5 kPa
Number of Shoes - Each Side - Sealed and Lubricated Track (SALT) Undercarriage	43
Number of Rollers - Each Side	6

Undercarriage

Length of Track on Ground	2248 mm
Number of Shoes - Each Side - Abrasion Undercarriage	38
Ground Pressure	44.5 kPa

Service Refill Capacities

Final Drive - Each - LGP	10 l
Cooling System	19 l
Diesel Exhaust Fluid (DEF) Tank	19 l
Transmission - Hydraulic Tank	90 l
Crankcase - With Filter	10.5 l
Fuel Tank	195 l

Service Refill Capacities

Final Drives - Each Side	10 l
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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	1.99 m³
BLADE: Blade Lift Height - LGP	730 mm
BLADE: Maximum Tilt - LGP	438 mm
BLADE: Blade Width - LGP	3149 mm
Ground Clearance - LGP	332 mm
BLADE: Blade Width at Maximum Angle - LGP	2874 mm
BLADE: Digging Depth - LGP	583 mm
Track Gauge - LGP	1725 mm

Ground Clearance - LGP, 762 mm (30 in)	332 mm
BLADE: Blade Height - LGP	860 mm
Overall Length - With Blade - LGP, 762 mm (30 in)	4262 mm
Track Gauge - LGP, 762 mm (30 in)	1860 mm
BLADE: Blade Cutting Edge Angle, Adjustable - LGP	52° to 58°
BLADE: Maximum Angle (either side) - LGP	25°
Overall Length - With Blade - LGP	4262 mm
Note	*Abrasion Undercarriage
Length of Basic Dozer (without blade) - LGP, 762 mm (30 in)	3291 mm
Width of Dozer (standard shoes, no blade) - Standard	1900 mm
Length of Basic Dozer (without blade) - Standard	3291 mm
Length of Basic Dozer (without blade) - LGP	3291 mm
Width of Dozer (standard shoes, no blade) - LGP, 762 mm (30 in)	2411 mm
Dozer Height - LGP	2765 mm
Width of Dozer (standard shoes, no blade) - LGP	2360 mm
Dozer Height - LGP, 762 mm (30 in)	2765 mm
Dozer Height - Standard	2765 mm

Dimensions

BLADE: Blade Width at Maximum Angle - Standard	2417 mm
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BLADE: Digging Depth - Standard	589 mm
BLADE: Blade Width - Standard	2646 mm
BLADE: Blade Lift Height - Standard	730 mm
Ground Clearance - Standard	332 mm
BLADE: Blade Cutting Edge Angle, Adjustable - Standard	52° to 58°
BLADE: Maximum Angle (either side) - Standard	25°
BLADE: Maximum Tilt - Standard	368 mm
BLADE: Blade Capacity (SAE) - Standard	1.52 m³
Track Gauge - Standard	1495 mm
BLADE: Blade Height - Standard	910 mm
Overall Length - With Blade - Standard	4273 mm
Note	With Ripper Attachment (add to Length of Basic Dozer) - 1177 mm (46.3 in)

Retrieval Winch

Weight	794 kg
Maximum Line Pull - Full Drum	24 m/min
Drum Capacity - Recommended Cable	84 m
Maximum Line Pull - Bare Drum	15 m/min
Drum Capacity - Optional Cable	59 m

Maximum Line Speed - Full Drum	9231 kg
Control	Hydraulic
Maximum Line Speed - Bare Drum	14583 kg
Rope Diameter - Optional	19 mm
Winch Drive	Hydraulic
Rope Diameter - Recommended	16 mm
Speed	Variable
Drum Diameter	203.2 mm
Drum Width	245 mm
Throat Clearance	141.4 mm
Winch Length	905 mm
Overall width	709 mm

High Performance Winch

Weight	610 kg
Drum diameter	254 mm
Winch drive	Hydrostatic
Winch length	705 mm
Maximum line pull – bare drum	18144 kg
Maximum line speed – full drum	63 m/min

Drum width	274 mm
Drum capacity – optional	78 m
Rope diameter – recommended	16 mm
Maximum line pull – full drum	11340 kg
Rope diameter – optional	19 mm
Speed	Variable
Maximum line speed – bare drum	40 m/min
Throat clearance	171.5 mm
Drum capacity – recommended cable	113 m
Overall width	741 mm
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