

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.

ENGINE

Power Train	Hydrostatic
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WEIGHTS

OperatingWeight	17855 lb
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WEIGHTS

OperatingWeight- LGP	18839 lb
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Note (1) Specifications shown are for machine equipped with dozer blade, EROPS cab, back-up alarm, operator, coolant, lubricants and full fuel tank.

OperatingWeight- LGP, 762 mm/30 in	19295 lb
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Note (2)

For machine with ripper, add 554 kg (1,222 lb).

CAB

FOPS

ISO 3449:2005 Level II

ROPS

ISO 3471:2008

TRANSMISSION

Drive Pumps

1

Maximum Travel Speed - Reverse

6.2 mile/h

Relief Valve Settings

7033 psi

Maximum Travel Speed - Forward

5.6 mile/h

Track Motors

2

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
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Number of Shoes - Each Side - Sealed and Lubricated Track (SALT) Undercarriage	43
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Number of Rollers - Each Side	6
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UNDERCARRIAGE

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

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

Final Drives - Each Side	2.6 gal (US)
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HYDRAULIC CONTROLS

Pump Output	17.2 gal/min
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Relief Valve Settings	2988 psi
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RIPPER

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

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.

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
OverallLength - 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 (eitherside) - LGP	25°
OverallLength - 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 (eitherside) - 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
Overallwidth	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

SALT undercarriage (43 section)

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

Low Slip Traction Control (included with ARO and Cat Grade 3D)

Slope Indicate

Stable Blade Lift and Tilt (included with ARO and Cat Grade 3D)

Compatibility with radios and base stations from Trimble, Topcon, and Leica

Capability to install 3D grade systems from Trimble, Topcon, and Leica

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

Cat Grade with Slope Assist
Cat Grade with 3D
Blade Load Monitor (included with Cat Grade 3D)
AutoCarry (included with Cat Grade 3D)
Cat Product Link™ PLE643/PLE743 Cellular
Cat Product Link PLE683/PLE783 Cellular/Satellite
Full-color 10 in (254 mm) touchscreen grade display
Cat Command Console
Cat Command Station

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