

# Product Specifications For D3



## Engine

<b>Engine Model</b>	Cat® C3.6
<b>Power - Net</b>	104 hp
<b>Displacement</b>	220 in <sup>3</sup>
<b>Net Power - 2,200 rpm - SAE J1349</b>	104 hp
<b>Net Power - 2,200 rpm - ISO 9249/EEC 80/1269</b>	104 hp
<b>Note (1)</b>	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.
<b>Note (2)</b>	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

<b>Operating Weight</b>	20639.68 lb
<b>Operating Weight</b>	20640 lb
<b>Operating Weight - LGP</b>	21369 lb
<b>Operating Weight - LGP, 762 mm/30 in</b>	21810 lb
<b>Note (2)</b>	For machine with ripper, add 554 kg (1,222 lb).

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

## Transmission

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

## Hydraulic Controls

<b>Pump Output</b>	17.2 gal/min
<b>Relief Valve Settings</b>	2988 psi

## Ripper

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

## Engine

<b>Power Train</b>	Hydrostatic
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## Cab

**ROPS**

ISO 3471:2008

**FOPS**

ISO 3449:2005 Level II

## Undercarriage

**Shoe Width - Standard**

20 in

**Ground Pressure - LGP**

4.5 psi

**Track Gauge - LGP**

69 in

**Length - Track on Ground - LGP**

91 in

**Number of Shoes - Each Side - Sealed and Lubricated Track (SALT)  
Undercarriage**

40

**Ground Pressure - LGP, 762 mm (30 in)**

3.9 psi

**Length - Track on Ground - LGP, 762 mm (30 in)**

91 in

**Shoe Width - LGP**

26 in

**Shoe Width - LGP, 762 mm (30 in)**

30 in

**Track Gauge**

63 in

**Number of Rollers - Each Side**

7

**Track Gauge - LGP, 762 mm (30 in)**

73 in

## Undercarriage

**Ground Pressure**

5.7 psi

**Length of Track on Ground**

91 in

**Number of Shoes - Each Side - Abrasion Undercarriage**

36

## Service Refill Capacities

Cooling System	5 gal (US)
Final Drive - Each - LGP	2.6 gal (US)
Crankcase - With Filter	2.8 gal (US)
Diesel Exhaust Fluid (DEF) Tank	4.9 gal (US)
Transmission - Hydraulic Tank	23.8 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

<b>Air Conditioning</b>	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

<b>BLADE: Blade Width - LGP</b>	126.7 in
<b>Track Gauge - LGP, 762 mm (30 in)</b>	73 in
<b>BLADE: Digging Depth - LGP</b>	23.2 in
<b>Track Gauge - LGP</b>	67.9 in
<b>BLADE: Blade Capacity (SAE) - LGP</b>	3.06 yd <sup>3</sup>
<b>BLADE: Blade Width at Maximum Angle - LGP</b>	115.8 in
<b>BLADE: Blade Cutting Edge Angle, Adjustable - LGP</b>	52° to 58°
<b>Ground Clearance - LGP, 762 mm (30 in)</b>	13 in

<b>BLADE: Blade Height - LGP</b>	39.8 in
<b>BLADE: Blade Lift Height - LGP</b>	30.2 in
<b>Ground Clearance - LGP</b>	13 in
<b>Overall Length - With Blade - LGP, 762 mm (30 in)</b>	169.6 in
<b>Overall Length - With Blade - LGP</b>	169.6 in
<b>BLADE: Maximum Tilt - LGP</b>	17.7 in
<b>BLADE: Maximum Angle (either side) - LGP</b>	25°
<b>Note</b>	With Ripper Attachment (add to Length of Basic Dozer) - 1177 mm (46.3 in)
<b>Length of Basic Dozer (without blade) - Standard</b>	128.7 in
<b>Dozer Height - Standard</b>	109 in
<b>Width of Dozer (standard shoes, no blade) - LGP</b>	94.9 in
<b>Width of Dozer (standard shoes, no blade) - LGP, 762 mm (30 in)</b>	103.5 in
<b>Length of Basic Dozer (without blade) - LGP</b>	128.7 in
<b>Dozer Height - LGP, 762 mm (30 in)</b>	109 in
<b>Width of Dozer (standard shoes, no blade) - Standard</b>	83 in
<b>Length of Basic Dozer (without blade) - LGP, 762 mm (30 in)</b>	128.7 in

Dozer Height - LGP

109 in

## Dimensions

BLADE: Blade Capacity (SAE) - Standard

2.86 yd<sup>3</sup>

Track Gauge - Standard

63 in

BLADE: Digging Depth - Standard

23.8 in

BLADE: Blade Lift Height - Standard

30.2 in

Ground Clearance - Standard

13 in

Overall Length - With Blade - Standard

170.7 in

BLADE: Blade Cutting Edge Angle, Adjustable - Standard

52° to 58°

BLADE: Blade Height - Standard

42.2 in

BLADE: Maximum Tilt - Standard

15.8 in

Note

Abrasion Undercarriage

BLADE: Blade Width - Standard

109.5 in

BLADE: Blade Width at Maximum Angle - Standard

103.8 in

BLADE: Maximum Angle (either side) - Standard

25°

## Retrieval Winch

Maximum Line Pull - Bare Drum

32150 lb

Control

Hydraulic

Rope Diameter - Optional

0.75 in

Drum Capacity - Optional Cable

195 ft

**Maximum Line Speed - Full Drum** 79 ft/min

**Drum Capacity - Recommended Cable** 277 ft

**Winch Drive** Hydraulic

**Weight** 1747 lb

**Maximum Line Pull - Full Drum** 20350 lb

**Rope Diameter - Recommended** 0.63 in

**Maximum Line Speed - Bare Drum** 50 ft/min

**Speed** Variable

**Winch Length** 35.63 in

**Drum Diameter** 8 in

**Overall width** 27.91 in

**Drum Width** 9.65 in

**Throat Clearance** 5.6 in

## High Performance Winch

**Winch length** 27.76 in

**Rope diameter – optional** 0.75 in

**Maximum line speed – bare drum** 131 ft/min

**Maximum line pull – bare drum** 40000 lb

**Weight** 1345 lb

<b>Drum capacity – optional</b>	256 ft
<b>Maximum line speed – full drum</b>	207 ft/min
<b>Rope diameter – recommended</b>	0.63 in
<b>Winch drive</b>	Hydrostatic
<b>Throat clearance</b>	6.75 in
<b>Drum diameter</b>	10 in
<b>Overall width</b>	29.2 in
<b>Drum width</b>	10.8 in
<b>Maximum line pull – full drum</b>	25000 lb
<b>Speed</b>	Variable
<b>Drum capacity – recommended cable</b>	371 ft
<b>Control</b>	Hydraulic

## D3 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 (HD) Undercarriage (40 section)  
Carrier rollers  
Guards, front/rear guiding  
Seven 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**

Slope Indicate  
Stable Blade – Basic Lift  
Third party 3D grade system compatible  
Cat Product Link™ PLE643/PLE743 Cellular

## **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

## **D3 Optional Equipment**

### **POWER TRAIN**

Air cleaner with external precleaner  
Installation, winch

### **ELECTRICAL**

Four integrated front LED lights, two rear LED

### **UNDERCARRIAGE**

Abrasion Undercarriage (36 section)

Track Pairs

- Track, 510 mm (20 in)
- Track, 660 mm (26 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 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)

## **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