

Product Specifications For 249D3



Engine

Gross Power - SAE J1995:2014	67.1 hp
Displacement	134.3 in ³
Bore	3.3 in
Stroke	3.9 in
Net Power - ISO 9249	66.5 hp
Net Power	65.8 hp
Net Power - SAE 1349	65.8 hp
Peak Torque - 1,500 rpm - SAE J1995	153 ft·lbf
Engine Model	Cat C2.2 CRDI

Operating Specifications

Rated Operating Capacities - 35% Tipping Load	1740 lb
Tipping Load	4970 lb
Breakout Force - Tilt Cylinder	3907 lb
Ground Contact Area - With 320 mm/12.6 in Track	1373 in ²
Ground Pressure - With 320 mm/12.6 in Track	5.7 psi

Ground Contact Area - With 400 mm/15.7 in Track	1716 in ²
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Ground Pressure - With 400 mm/15.7 in Track	4.7 psi
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Rated Operating Capacities - 50% Tipping Load	2485 lb
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Note	Operating Weight, Operating Specifications and Dimensions all based on 75 kg (165 lb) operator, all fluids, 1730 mm (68 in) low profile bucket, 320 mm (12.6 in) tracks, standard flow hydraulics, C0 cab (OROPS, static seat), 850 CCA battery, manual quick coupler, no self level and no optional counterweights (unless otherwise noted).
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Rated Operating Capacity with Optional Counterweight	2700 lb
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Weights

Operating Weight	7831 lb
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Note	Operating Weight, Operating Specifications and Dimensions all based on 75 kg (165 lb) operator, all fluids, 1730 mm (68 in) low profile bucket, 320 mm (12.6 in) tracks, standard flow hydraulics, C0 cab (OROPS, static seat), 850 CCA battery, manual quick coupler, no self level and no optional counterweights (unless otherwise noted).
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Dimensions

Length - Track on Ground	54.5 in
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Overall Length - Track	71.2 in
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Height - Top of Cab	80.3 in
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Ground Clearance	7.6 in
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Departure Angle	34.5°
Maximum Dump Angle	48°
Vehicle Width (400 mm/15.7 in tracks)	69.1 in
Length - With Bucket on Ground	127.3 in
Maximum Overall Height	150.8 in
Bucket Pin Height - Carry Position	8.6 in
Maximum Reach - With Arms Parallel to Ground	51.8 in
Length - Without Bucket	99.3 in
Turning Radius from Center - Machine Rear	57.4 in
Bucket Pin Height - Maximum Lift	118.2 in
Clearance at Maximum Lift and Dump	88.7 in
Vehicle Width (320 mm/12.6 in tracks)	66 in
Turning Radius from Center - Coupler	45.7 in

Reach - Maximum Lift/Dump	28.6 in
Rack Back Angle - Maximum Height	87.5°
Turning Radius from Center - Bucket	81.1 in
Note	Operating Weight, Operating Specifications and Dimensions all based on 75 kg (165 lb) operator, all fluids, 1730 mm (68 in) low profile bucket, 320 mm (12.6 in) tracks, standard flow hydraulics, C0 cab (OROPS, static seat), 850 CCA battery, manual quick coupler, no self level and no optional counterweights (unless otherwise noted).
Bucket Pin Reach - Maximum Lift	12.2 in

Cab

ROPS	ISO 3471:2008
FOPS	ISO 3449:2005 Level I

Hydraulic System

Hydraulic Flow - Standard - Loader Hydraulic Pressure	3336 psi
Hydraulic Flow - High Flow - Loader Hydraulic Flow	26 gpm
Hydraulic Flow - High Flow - Loader Hydraulic Pressure	3336 psi
Hydraulic Flow - High Flow - Hydraulic Power (Calculated)	50.9 hp
Hydraulic Flow - Standard - Loader Hydraulic Flow	18 gpm
Hydraulic Flow - Standard - Hydraulic Power (Calculated)	35.5 hp

Power Train

Travel Speed - Forward or Reverse - One Speed	5 mile/h
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Travel Speed - Forward or Reverse - Two Speed

7.6 mile/h

Service Refill Capacities

Engine Crankcase

2.6 gal (US)

Fuel Tank

15.1 gal (US)

Hydraulic System

11.9 gal (US)

Cooling System

3.2 gal (US)

Hydraulic Tank

9 gal (US)

Noise Level

Outside Cab***

103 dB(A)

Inside Cab**

83 dB(A)

Note (3)

***The labeled sound power level for the CE marked configurations when measured according to the test procedure and conditions specified in 2000/14/EC.

Note (2)

**The declared dynamic operator sound pressure levels per ISO 6396:2008. The measurements were conducted with the cab doors and windows closed and at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds.

Note (1)

Cab and Rollover Protective Structures (ROPS) are standard in North America and Europe.

Air Conditioning System (If Equipped)

Air Conditioning

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.81 kg of refrigerant which has a CO2 equivalent of 1.158 metric tonnes.

249D3 Standard Equipment

ELECTRICAL

12 volt Electrical System

80 ampere Alternator

Ignition Key Start/Stop Switch

Lights: Gauge Backlighting, Two Rear Tail Lights, Two Adjustable Front and Rear Halogen Lights, Dome Light

Backup Alarm

Heavy Duty Battery, 850 CCA

OPERATOR ENVIRONMENT

Gauges: Fuel Level, Hour Meter

Operator Warning System Indicators: Air Filter Restriction, Alternator Output, Armrest Raised/Operator Out of Seat, Engine Coolant Temperature, Engine Oil Pressure, Glow Plug Activation, Hydraulic Filter Restriction, Hydraulic Oil Temperature, Park Brake Engaged

Adjustable Vinyl Seat

Fold In Ergonomic Contoured Armrest

Control Interlock System, when operator leaves seat or armrest raised: Hydraulic System Disables, Hydrostatic Transmission Disables, Parking Brake Engages

ROPS Cab, Open, Tilt Up

FOPS, Level I

Top and Rear Windows

Floor Mat

Interior Rearview Mirror

12 volt Electric Socket

Horn

Hand (Dial) Throttle, Electronic

Adjustable Joystick Controls

Anti-theft Security System with 6-button Keypad

Storage Compartment with Netting

POWER TRAIN

Cat C2.2, Turbo Diesel Engine, Meeting Tier 4 Final and Stage V emission standards

Air Cleaner, Dual Element, Radial Seal

S-O-SSM Sampling Valve, Hydraulic Oil

Filters, Cartridge-type, Hydraulic

Filters, Canister-type, Fuel and Water Separator

ATAAC/Radiator/Hydraulic Oil Cooler (side-by-side)

Spring Applied, Hydraulically Released Parking Brakes

Hydrostatic Transmission, Two Speed Travel

Suspension – Independent Torsion Axles (4)

OTHER

Engine Enclosure, Lockable

Extended Life Antifreeze, -36° C (-33° F)

Machine Tie Down Points (6)

Support, Lift Arm

Hydraulic Oil Level Sight Gauge

Radiator Coolant Level Sight Gauge

Radiator, Expansion Bottle

Cat ToughGuard™ Hose
Auxiliary, Hydraulics, Continuous Flow
Heavy Duty, Flat Faced Quick Disconnects with Integrated Pressure Release
Split D-Ring to Route Work Tool Hoses Along Side of Left Lift Arm
Electrical Outlet, Beacon
Belly Pan Cleanout
Variable Speed Demand Fan
Product Link™ PL240, Cellular

MANDATORY EQUIPMENT

Hydraulics, Standard or High Flow
Quick Coupler, Mechanical or Powered
High Visibility Seat Belt, 50 mm (2 in) or 75 mm (3 in)
EU Preparation Package (Europe only)
Steel Imbed Rubber Track – 320 mm (12.6 in) Block Tread or 400 mm (15.7 in) Bar Tread
Dual Flange Front Idler/Single Flange Rear Idler

PERFORMANCE PACKAGES:

- Performance Package H1: Standard Flow Hydraulics (No Self Level)
- Performance Package H2: Standard Flow Hydraulics, Dual Direction Electronic Self Level (Raise and Lower), Work Tool Return to Dig, Work Tool Positioner, and Electronic Snubbing (Raise and Lower)
- Performance Package H3: High Flow Hydraulics, Dual Direction Electronic Self Level (Raise and Lower), Work Tool Return to Dig, Work Tool Positioner, and Electronic Snubbing (Raise and Lower)

COMFORT PACKAGES

- Open ROPS (C0): Static Seat (No Foot Throttle, Headliner, Heater or Door)
- Open ROPS (C1): Foot Throttle, Headliner, Cup Holder, and choice of Seat (Mechanical Suspension or High Back, Heated, Air Ride Seat) (No Heater or Door)
- Enclosed ROPS with Heater (C2): Foot Throttle, Headliner, Heater and Defroster, Side Windows, Cup Holder, Radio Ready, choice of Seat (Mechanical Suspension or High Back, Heated, Air Ride Seat) and Door (Glass or Polycarbonate)
- Enclosed ROPS with A/C (C3): C2 + Air Conditioner

249D3 Optional Equipment

OPTIONAL EQUIPMENT

Hand-Foot Style Controls
External Counterweights
Beacon, Rotating
Engine Block Heater – 120V
Oil, Hydraulic, Cold Operation
Paint, Custom
Product Link PL641, Cellular
Ride Control
Advanced Display with Rearview Camera: Full Color, 127 mm (5 in) LCD screen, Advanced Multi-operator Security System, On-screen Adjustments for Implement Response, Hystat Response, and Creep Control. (Standard Equipment in Europe Only)
Work Tool Return to Dig and Work Tool Positioner
Bluetooth® Radio with Microphone (AM/FM/Weather Band Receiver with USB and Auxiliary Input Jack)