

Product Specifications For 239D3



Engine

Gross Power - SAE J1995	50.1 kW
Displacement	2.2 l
Bore	84 mm
Stroke	100 mm
Peak Torque - 1,500 rpm - SAE J1995	208 N·m
Net Power - SAE 1349	49.1 kW
Net Power - ISO 9249	49.6 kW
Engine Model	Cat C2.2 CRDI
Net Power	49.1 kW

Operating Specifications

Rated Operating Capacities - 35% Tipping Load	695 kg
Tipping Load	1985 kg
Breakout Force - Tilt Cylinder	1775 kg
Rated Operating Capacity with Optional Counterweight	1090 kg
Ground Contact Area - With 320 mm/12.6 in Track	0.89 m ²

Ground Pressure - With 320 mm/12.6 in Track	37.3 kPa
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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, C1 cab (OROPS, mechanical seat), 850 CCA battery, manual quick coupler, no self level and no optional counterweights (unless otherwise noted).
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Ground Contact Area - With 400 mm/15.7 in Track	1.11 m ²
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Ground Pressure - With 400 mm/15.7 in Track	30.6 kPa
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Rated Operating Capacities - 50% Tipping Load	995 kg
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Weights

Operating Weight	3372 kg
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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, C1 cab (OROPS, mechanical seat), 850 CCA battery, manual quick coupler, no self level and no optional counterweights (unless otherwise noted).
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Dimensions

Vehicle Width (320 mm/12.6 in tracks)	1676 mm
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Ground Clearance	195 mm
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Length - With Bucket on Ground	3234 mm
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Length - Without Bucket	2522 mm
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Maximum Reach - With Arms Parallel to Ground	1356 mm
Turning Radius from Center - Bucket	2069 mm
Overall Length - Track	1808 mm
Reach - Maximum Lift/Dump	563 mm
Vehicle Width (400 mm/15.7 in tracks)	1756 mm
Maximum Overall Height	3645 mm
Bucket Pin Height - Carry Position	218 mm
Length - Track on Ground	1384 mm
Clearance at Maximum Lift and Dump	2057 mm
Bucket Pin Height - Maximum Lift	2825 mm
Departure Angle	34.5°
Rack Back Angle - Maximum Height	85.5°
Turning Radius from Center - Coupler	1159 mm

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, C1 cab (OROPS, mechanical seat), 850 CCA battery, manual quick coupler, no self level and no optional counterweights (unless otherwise noted).

Height - Top of Cab	2034 mm
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Maximum Dump Angle	50.3°
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Turning Radius from Center - Machine Rear	1458 mm
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Hydraulic System

Hydraulic Flow - High Flow - Loader Hydraulic Flow	99 l/min
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Hydraulic Flow - Standard - Loader Hydraulic Pressure	23000 kPa
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Hydraulic Flow - Standard - Loader Hydraulic Flow	69 l/min
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Hydraulic Flow - High Flow - Loader Hydraulic Pressure	23000 kPa
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Hydraulic Flow - High Flow - Hydraulic Power (Calculated)	38 kW
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Hydraulic Flow - Standard - Hydraulic Power (Calculated)	26.5 kW
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Cab

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

Travel Speed - Forward or Reverse - Two Speed	12.2 km/h
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Travel Speed - Forward or Reverse - One Speed	8.1 km/h
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Service Refill Capacities

Cooling System	12 l
Engine Crankcase	10 l
Fuel Tank	57 l
Hydraulic System	45 l
Hydraulic Tank	34 l

Noise Level

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.
Outside Cab***	103 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 (1)	Cab and Rollover Protective Structures (ROPS) are standard in North America and Europe.
Inside Cab**	83 dB(A)

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.
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239D3 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

239D3 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
Work Tool Return to Dig and Work Tool Positioner
Bluetooth® Radio with Microphone (AM/FM/Weather Band Receiver with USB and Auxiliary Input Jack)