

# Product Specifications For 250



## Engine

<b>Gross Power - SAE J1995:2014</b>	74 hp
-------------------------------------	-------

<b>Net Power - SAE 1349</b>	73 hp
-----------------------------	-------

<b>Displacement</b>	171 in <sup>3</sup>
---------------------	---------------------

<b>Stroke</b>	4.3 in
---------------	--------

<b>Bore</b>	3.5 in
-------------	--------

<b>Net Power - ISO 9249</b>	73 hp
-----------------------------	-------

<b>Peak Torque - 1,600 rpm - SAE J1995</b>	221 lb/ft
--	-----------

<b>Note</b>	Advertised power is tested per the specified standard in effect at the time of manufacture. Net power advertised is the power available at the flywheel when the engine is equipped with fan at minimum speed, air intake system, exhaust system, and alternator.
-------------	---

<b>Engine Model</b>	Cat C2.8T (turbo)
---------------------	-------------------

## Operating Specifications

<b>Rated Operating Capacity</b>	2689 lb
---------------------------------	---------

<b>Tipping Load</b>	5378 lb
---------------------	---------

<b>Breakout Force - Tilt Cylinder</b>	6784 lb
---------------------------------------	---------

<b>Breakout Force - Lift Cylinder</b>	5948 lb
---------------------------------------	---------

**Rated Operating Capacity with Optional Counterweight**

2916 lb

**Note**

Operating Weight, Operating Specifications and Dimensions all based on 75 kg (165 lb) operator, all fluids, one speed, OROPS (Open Roll Over Protection System), 1730 mm (68 in) low profile bucket, Cat 12 × 16.5 tires, standard flow hydraulics, mechanical suspension seat, no optional counterweights and manual quick coupler (unless otherwise noted).

**Weights**

**Operating Weight**

7829 lb

**Note**

Operating Weight, Operating Specifications and Dimensions all based on 75 kg (165 lb) operator, all fluids, one speed, OROPS (Open Roll Over Protection System), 1730 mm (68 in) low profile bucket, Cat 12 × 16.5 tires, standard flow hydraulics, mechanical suspension seat, no optional counterweights and manual quick coupler (unless otherwise noted).

**Dimensions**

**Wheel Base**

43.1 in

**Height - Top of Cab**

81.9 in

**Vehicle Width over Tires**

66 in

**Ground Clearance**

7.7 in

**Departure Angle**

23°

**Maximum Dump Angle**

46°

**Length - With Bucket on Ground**

135 in

<b>Length - Without Bucket</b>	110.2 in
<b>Bucket Pin Height - Maximum Lift</b>	124 in
<b>Maximum Reach - With Arms Parallel to Ground</b>	32.8 in
<b>Turning Radius from Center - Coupler</b>	51 in
<b>Turning Radius from Center - Machine Rear</b>	64.9 in
<b>Maximum Overall Height</b>	155.8 in
<b>Bucket Pin Reach - Maximum Lift</b>	3 in
<b>Bucket Pin Height - Carry Position</b>	7.9 in
<b>Note</b>	Operating Weight, Operating Specifications and Dimensions all based on 75 kg (165 lb) operator, all fluids, one speed, OROPS (Open Roll Over Protection System), 1730 mm (68 in) low profile bucket, Cat 12 × 16.5 tires, standard flow hydraulics, mechanical suspension seat, no optional counterweights and manual quick coupler (unless otherwise noted).
<b>Rack Back Angle - Maximum Height</b>	97°

<b>Clearance at Maximum Lift and Dump</b>	96.2 in
---	---------

<b>Turning Radius from Center - Bucket</b>	79.7 in
--	---------

<b>Reach - Maximum Lift/Dump</b>	17.6 in
--	---------

<b>Roll Back Angle</b>	28°
------------------------	-----

## Cab

<b>ROPS</b>	ISO 3471:2008
-------------	---------------

<b>FOPS</b>	ISO 3449:2005 Level I
-------------	-----------------------

<b>FOPS Level II</b>	ISO 3449:2005 (Optional)
----------------------	--------------------------

## Service Refill Capacities

<b>Chain Box - Each Side</b>	2.2 gal (US)
------------------------------	--------------

<b>Cooling System</b>	3 gal (US)
-----------------------	------------

<b>Engine Crankcase</b>	2.1 gal (US)
-------------------------	--------------

<b>Fuel Tank</b>	24.9 gal (US)
------------------	---------------

<b>Hydraulic System</b>	9.7 gal (US)
-------------------------	--------------

<b>Hydraulic Tank</b>	6.9 gal (US)
-----------------------	--------------

## Hydraulic System

<b>Hydraulic Flow - High Flow XPS - Maximum Loader Hydraulic Pressure</b>	4061 psi
---	----------

<b>Hydraulic Flow - High Flow - Maximum Loader Hydraulic Flow</b>	30 gal/min
---	------------

Hydraulic Flow - Standard - Loader Hydraulic Flow	20 gal/min
Hydraulic Flow - High Flow XPS - Maximum Loader Hydraulic Flow	30 gal/min
Hydraulic Flow - High Flow - Hydraulic Power (Calculated)	58 hp
Hydraulic Flow - Standard - Hydraulic Power (Calculated)	39 hp
Hydraulic Flow - Standard - Loader Hydraulic Pressure	3335 psi
Hydraulic Flow - High Flow XPS - Hydraulic Power (Calculated)	71 hp
Hydraulic Flow - High Flow - Maximum Loader Hydraulic Pressure	3335 psi

## Power Train

Travel Speed - Forward or Reverse - One Speed	8 mile/h
Travel Speed - Forward or Reverse - Two Speed Option	10.5 mile/h

## Sustainability

Recyclability	94%
---------------	-----

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

# 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 0.85 kg of refrigerant which has a CO2 equivalent of 1.216 metric tonnes.

## 250 Standard Equipment

### ELECTRICAL

Work Tool Electrical Harness

Heavy duty battery

12-volt Electrical System

85 Ampere Alternator

LED Work Lights

Auto Reverse Lights

Switch Backlighting

Interior LED Dome Light

Backup Alarm

Electrical Outlet, Beacon

Exterior Courtesy Lighting

Automatic Work light notification flash when parking brake is released

### OPERATOR ENVIRONMENT

Full color LCD monitor: Creep speed control, Drive response adjustment, Implement response adjustment

Drive Power Priority adjustment, Language selection (×32), Multi-operator Anti-theft Security System and

Monitoring, Maintenance schedule and reminders, Event and Diagnostic Code monitoring,

Time/Units/Brightness settings, and Smart Technology for use with Smart Attachments.

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 Supply

Filter Restriction, Hydraulic Oil Temperature, Park Brake Engaged, Engine Emission System (where

applicable)

Gauges: Fuel Level, Hour Meter, Hydraulic Temperature, Hour Meter, Battery Voltage, Tachometer

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, Tilt Up

FOPS, Level I

Top and Rear Windows

Floor Mat

Headliner

Interior Rearview Mirror

Horn

Hand (Dial) Throttle, Electronic

Seat Mounted Joystick Controls

Cell Phone Storage Pocket

Cup Holder

12-volt power port  
Foot Throttle

## **HYDRAULICS**

Selectable control pattern – ISO or H  
Electro/hydraulic implement control  
Electro/hydraulic hydrostatic transmission control Speed sensor guarding  
Heavy duty flat faced quick disconnects with integrated pressure release lever  
Hydraulic oil level sight gauge

## **POWER TRAIN**

Cat C2.8T turbocharged diesel engine, Meeting U.S. EPA Tier 4 Final and EU Stage V emission standards  
Glow plugs starting aid  
Liquid cooled, direct injection  
Extended life antifreeze (–37°C, –34°F)  
Air cleaner, dual element, radial seal  
Scheduled Oil Sampling (S·O·SSM) Valve, Hydraulic Oil Ecology drain – coolant  
Radiator coolant level sight gauge Radiator expansion bottle  
Filter, hydraulic supply, cartridge type  
Filter, hydraulic return, cartridge type  
Filter, canister type, engine oil  
Spring applied, hydraulically released, parking brakes  
Hydrostatic transmission  
Lockable fuel cap  
Hydraulic demand cooling fan  
Auto engine idle

## **OTHER**

Auxiliary Hydraulics, Continuous Flow  
Telematics, Product Link, Cellular  
Steel engine door with replaceable louvers  
Engine door – lockable  
Work tool attachment coupler  
Cat ToughGuard™ hose

## **MANDATORY EQUIPMENT**

Auxiliary Hydraulics: Standard or High Flow XPS  
Quick Coupler: Mechanical or Hydraulic  
High Visibility Seat Belt: 50 mm (2 in), 75 mm (3 in), or 3-point lap/shoulder  
Tires: 10 x 16.5 or 12 x 16.5  
Axles: Standard or Special Application

## **PERFORMANCE PACKAGES**

Performance Package HP1: Standard Flow Hydraulics  
Performance Package HP3: High Flow XPS Hydraulics

## COMFORT PACKAGES

Open canopy: Cup Holder, Cell Phone Pocket, choice of vinyl seat (Mechanical Suspension, High Back/Heated/Air Ride Seat

Enclosed Cab with heat and air conditioning: Side Windows, Cup Holder, Cell Phone Pocket, choice of Seat (Mechanical Suspension, High Back/Heated Air Ride Seat, High Back/Ventilated and Heated Air Ride Seat) and Door choice (Glass or Polycarbonate)

## TECHNOLOGY PACKAGES

T2 – T1 + Rear-view camera.

T4 – Advanced Touchscreen Monitor, Advanced Joysticks, Push start, X-mount cell phone holder, and a Rear-view camera.

T5 – T4 + 2 additional side view cameras.

## RADIO

Radio, none – for open canopy machines and countries not certified for Bluetooth® technology

Integrated AM/FM radio with Bluetooth technology. Includes USB port, 3.5 mm Auxiliary (AUX) input, and Bluetooth microphone. Only for use with enclosed cab. Availability varies by country.

Integrated DAB+/AM/FM radio with Bluetooth technology. Includes USB port, 3.5 mm AUX input, and Bluetooth microphone. Only for use with enclosed cab. Availability varies by country.

## PRODUCT LINK™

Product Link Basic series PL243

Product Link Elite series PLE643

## COOLING FAN

On-demand, variable speed hydraulic cooling fan

On-demand, variable speed hydraulic cooling fan, with automatic and manual purge reversing operation

## GUARDING AND SEALING PACKAGES

HD0 – base guarding and sealing (engine air inlet rain cap, front cab-toframe sealing, and hydraulic fill access door)

HD1– intermediate guarding and sealing (HD0 + cab-to-frame side sealing, lockable fuel fill access door, tilt cylinder guarding, and drive line bottom guarding. Some equipment varies by region)

HD2 – most comprehensive guarding and sealing (HD1 + turbo guard, exhaust stack wrap, Diesel Particulate Filter (DPF) wrap, quick disconnect guarding, fully enclosed drive line guarding, under step hydraulic lines guard cover, engine air inlet pre-cleaner. Some equipment varies by region)

## 250 Optional Equipment

### OPTIONAL EQUIPMENT

External Counterweights

Beacon, LED

Engine Block Heater – 120V



Oil, Hydraulic, Cold Operation  
4-point machine lifting eyes  
Paint, Custom  
Speed Sensitive Ride Control  
Bluetooth Key Security  
Attachment Hose Guide  
Corrosion Inhibitor Coating