

Product Specifications For 255



Engine

Gross Power - SAE J1995:2014	74.3 hp
Engine Model	Cat® C2.8T (turbo)
Net Power - ISO 9249	73 hp
Net Power - SAE 1349	73.5 hp
Peak Torque - 1,600 rpm - SAE J1995	221 lb/ft
Displacement	171 in ³
Stroke	4.3 in
Bore	3.5 in

Noise Level

Inside Cab*	80 dB(A)
Outside Cab**	103 dB(A)
Note (1)	Cab and Rollover Protective Structures (ROPS) are standard in North America and Europe.
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 (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.

Operating Specifications

Rated Operating Capacities - 35% Tipping Load	2499 lb
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Rated Operating Capacities - 50% Tipping Load	3570 lb
Rated Operating Capacity with Optional Counterweight - 35% Tipping Load	2632 lb
Tipping Load	7140 lb
Breakout Force - Lift Cylinder	5895 lb
Breakout Force - Tilt Cylinder	6746 lb
Ground Contact Area - With 320 mm/12.6 in Track	1634 in ²
Ground Contact Area - With 400 mm/15.7 in Track	2042 in ²
Ground Pressure - With 320 mm/12.6 in Track	40.4 in ²
Ground Pressure - With 400 mm/15.7 in Track	4.7 in ²
Ground Pressure - With 450 mm/17.7 in Track	4.6 psi

Weights*

Operating Weight	9578 lb
Counterweight Adds to Operating Weight	276 lb
Counterweight Adds to Operating Weight - ROC (35%)	132 lb
Counterweight Adds to Operating Weight - Tip Load	379 lb
Enclosed Cab Adds to Operating Weight	180 lb

Enclosed Cab Adds to Operating Weight - ROC (35%)

38 lb

Enclosed Cab Adds to Operating Weight - Tip Load

108 lb

Note

*Operating Weight, Operating Specifications, and Dimensions are based on 1730 mm (68") low profile bucket with bolt on cutting edge, 320 mm (12.6") narrow track, 75 kg (165 lb) operator, open canopy, mechanical suspension seat, HD battery with disconnect, standard flow hydraulics, manual coupler, and full fluids. No external counterweights, and no dual self-level/return-to-dig/work tool positioner.

Wide Track (400 mm/15.7 in) Adds to Operating Weight

119 lb

Dimensions

Bucket Pin Height - Carry Position

7.7 in

Bucket Pin Height - Maximum Lift

124 in

Bucket Pin Reach - Maximum Lift

5.9 in

Clearance at Maximum Lift and Dump

95.4 in

Departure Angle

30.6°

Ground Clearance

8.3 in

Height - Top of Cab

83.3 in

Length - Track on Ground

58.5 in

Length - With Bucket on Ground

135 in

Length - Without Bucket

110.2 in

Maximum Dump Angle	46.3°
Maximum Overall Height	155.2 in
Maximum Reach - With Arms Parallel to Ground	45.7 in
Overall Length - Track	76.7 in
Rack Back Angle - Maximum Height	85.2°
Reach at Maximum Lift/Dump	21.3 in
Roll Back Angle	27°
Turning Radius from Center - Bucket (racked)	82.9 in
Turning Radius from Center - Coupler	54.2 in
Turning Radius from Center - Machine Rear	65.2 in
Vehicle Width (320 mm/12.6 in tracks)	65.9 in
Vehicle Width (400 mm/15.7 in tracks)	69.3 in

Power Train

Travel Speed - Forward or Reverse - Two Speed	8.5 mile/h
Travel Speed - Forward or Reverse - One Speed	5.7 mile/h

Cab

ROPS	ISO 3471:2008
FOPS	ISO 3449:2005 Level I
FOPS Level II	ISO 3449:2005 Level II (optional)

Service Refill Capacities

Cooling System	3 gal (US)
Engine Crankcase	2.1 gal (US)
Fuel Tank	24.8 gal (US)
Hydraulic System	9.7 gal (US)
Hydraulic Tank	6.9 gal (US)

Hydraulic System

Hydraulic Flow - Standard - Loader Hydraulic Pressure	3500 psi
Hydraulic Flow - Standard - Loader Hydraulic Flow	23 gpm
Hydraulic Flow - Standard - Hydraulic Power (Calculated)	46.4 hp
Hydraulic Flow - High Flow - Loader Hydraulic Pressure	3500 psi
Hydraulic Flow - High Flow - Loader Hydraulic Flow	30 gpm
Hydraulic Flow - High Flow - Hydraulic Power (Calculated)	60.9 hp
Hydraulic Flow - High Flow XPS - Maximum Loader Hydraulic Pressure	4061 psi
Hydraulic Flow - High Flow XPS - Maximum Loader Hydraulic Flow	30 gpm
Hydraulic Flow - High Flow XPS - Hydraulic Power (Calculated)	70.7 hp

Sustainability

Recyclability	95%
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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.
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255 Standard Equipment

STANDARD EQUIPMENT

Quick Coupler: Manual or Hydraulic

High Visibility Seat Belt: 50 mm (2 in), 75 mm (3 in), or 3-point lap/shoulder

Steel Imbed Rubber Track – 320 mm (12.6 in) bar tread, 400 mm (15.7 in) block tread, 400 mm (15.7 in) bar tread

Dual Flange Front Idler/Single Flange Rear Idler or Triple Flange Front/Rear Idlers

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 – Standard Display, Standard Joysticks, traditional Key Start switch, and 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 (0.13 in) AUX input, and BT 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 (0.13 in) AUX input, and BT 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 to-frame 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, DPF wrap, quick disconnect guarding, fully enclosed drive line guarding, under step hydraulic lines guard cover, engine air inlet pre-cleaner.)

ELECTRICAL

Work Tool Electrical Harness

Heavy duty battery

Battery disconnect with lockout feature

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, ~~Date~~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 Tier 4 Final and 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

Filter, canister type, fuel and water separator

Radiator/hydraulic oil

Cooler (side-by-side)

Spring applied, hydraulically released, parking brakes

Hydrostatic transmission

Lockable fuel cap

Hydraulic demand cooling fan

Auto engine idle

UNDERCARRIAGE

Torsion Suspension (4 independent torsion axles)

Two speed travel

Integrated tie downs on track frame (4)

FRAME

Machine tie down points (9)

Removable panels for machine frame cleanout

Support, lift arm

Steel rear and front bumpers, welded

Fuel fill, machine right hand side

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

255 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