

# Product Specifications For 255



## Engine

Gross Power - SAE J1995	74.3 hp
Bore	4.3 in
Displacement	171 in <sup>2</sup>
Net Power - ISO 9249	73 hp
Net Power - SAE 1349	73.5 hp
Peak Torque - 1,600 rpm - SAE J1995	221 lb/ft
Stroke	3.5 in
Engine Model	Cat® C2.8T (turbo)

## Operating Specifications

Rated Operating Capacities - 35% Tipping Load	2499 lb
Breakout Force - Lift Cylinder	5895 lb
Breakout Force - Tilt Cylinder	6746 lb
Ground Contact Area - With 320 mm/12.6 in Track	1582 in <sup>2</sup>
Ground Contact Area - With 400 mm/15.7 in Track	1977 in <sup>2</sup>
Ground Pressure - With 320 mm/12.6 in Track	41.8 in <sup>2</sup>
Ground Pressure - With 400 mm/15.7 in Track	4.9 in <sup>2</sup>
Ground Pressure - With 450 mm/17.7 in Track	4.6 psi
Rated Operating Capacities - 50% Tipping Load	3570 lb

<b>Rated Operating Capacity with Optional Counterweight</b>	2631 lb
<b>Tipping Load</b>	7140 lb

# Weights\*

<b>Operating Weight</b>	9578 lb
<b>Counterweight Adds to Operating Weight</b>	276 lb
<b>Counterweight Adds to Operating Weight - ROC (35%)</b>	132 lb
<b>Counterweight Adds to Operating Weight - Tip Load</b>	379 lb
<b>Enclosed Cab Adds to Operating Weight</b>	180 lb
<b>Enclosed Cab Adds to Operating Weight - ROC (35%)</b>	38 lb
<b>Enclosed Cab Adds to Operating Weight - Tip Load</b>	108 lb

<b>Note</b>	*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.
<b>Operating Weight - ROC (35%)</b>	2499 lb
<b>Operating Weight - ROC (50%)</b>	3570 lb
<b>Operating Weight - Tip Load</b>	7140 lb
<b>Wide Track (400 mm/15.7 in) Adds to Operating Weight</b>	119 lb

# Dimensions

<b>Bucket Pin Height - Carry Position</b>	7.7 in
<b>Bucket Pin Height - Maximum Lift</b>	124 in
<b>Bucket Pin Reach - Maximum Lift</b>	5.9 in
<b>Clearance at Maximum Lift and Dump</b>	95.4 in
<b>Departure Angle</b>	30.6°
<b>Ground Clearance</b>	8.3 in
<b>Height - Top of Cab</b>	83.3 in
<b>Length - Track on Ground</b>	58.5 in

<b>Length - With Bucket on Ground</b>	135 in
<b>Length - Without Bucket</b>	110.2 in
<b>Maximum Dump Angle</b>	43.6°
<b>Maximum Overall Height</b>	155.2 in
<b>Maximum Reach - With Arms Parallel to Ground</b>	45.7 in
<b>Overall Length - Track</b>	76.7 in
<b>Rack Back Angle - Maximum Height</b>	85.2°
<b>Reach at Maximum Lift/Dump</b>	21.3 in
<b>Roll Back Angle</b>	27°
<b>Turning Radius from Center - Bucket (racked)</b>	82.9 in
<b>Turning Radius from Center - Coupler</b>	54.2 in
<b>Turning Radius from Center - Machine Rear</b>	65.2 in
<b>Vehicle Width (320 mm/12.6 in tracks)</b>	65.9 in
<b>Vehicle Width (400 mm/15.7 in tracks)</b>	69.3 in

## Cab

<b>FOPS</b>	ISO 3449:2005 Level I
<b>ROPS</b>	ISO 3471:2008

## Power Train

<b>Travel Speed - Forward or Reverse - Two Speed</b>	9.1 mile/h
<b>Travel Speed - Forward or Reverse - One Speed</b>	5.7 mile/h

## Service Refill Capacities

Cooling System	3 gal (US)
Engine Crankcase	2.2 gal (US)
Fuel Tank	25.1 gal (US)
Hydraulic System	9.7 gal (US)
Hydraulic Tank	6.9 gal (US)

## Hydraulic System

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

## 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/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