

Product Specifications For 255



Engine

Gross Power - SAE J1995	55.4 kW
Bore	110 mm
Displacement	2.8 l
Net Power - ISO 9249	54.4 kW
Net Power - SAE 1349	54.8 kW
Peak Torque - 1,600 rpm - SAE J1995	300 N·m
Stroke	90 mm
Engine Model	Cat® C2.8T (turbo)

Hydraulic System

Hydraulic Flow - High Flow - Hydraulic Power (Calculated)	45.4 kW
Hydraulic Flow - High Flow - Loader Hydraulic Flow	113 l/min
Hydraulic Flow - High Flow - Loader Hydraulic Pressure	24130 kPa
Hydraulic Flow - High Flow XPS - Hydraulic Power (Calculated)	52.7 kW
Hydraulic Flow - High Flow XPS - Maximum Loader Hydraulic Flow	113 l/min
Hydraulic Flow - High Flow XPS - Maximum Loader Hydraulic Pressure	28000 kPa
Hydraulic Flow - Standard - Hydraulic Power (Calculated)	34.6 kW
Hydraulic Flow - Standard - Loader Hydraulic Flow	86 l/min
Hydraulic Flow - Standard - Loader Hydraulic Pressure	24130 kPa

Operating Specifications

Rated Operating Capacities - 35% Tipping Load	1133 kg
Breakout Force - Lift Cylinder	2674 kg
Breakout Force - Tilt Cylinder	3060 kg
Ground Contact Area - With 320 mm/12.6 in Track	1.02 m ²
Ground Contact Area - With 400 mm/15.7 in Track	1.28 m ²
Ground Pressure - With 320 mm/12.6 in Track	6.1 m ²
Ground Pressure - With 400 mm/15.7 in Track	34 m ²
Ground Pressure - With 450 mm/17.7 in Track	31.9 kPa
Rated Operating Capacities - 50% Tipping Load	1619 kg
Rated Operating Capacity with Optional Counterweight	1194 kg
Tipping Load	3238 kg

Weights*

Operating Weight	4345 kg
Counterweight Adds to Operating Weight	125 kg
Counterweight Adds to Operating Weight - ROC (35%)	60 kg
Counterweight Adds to Operating Weight - Tip Load	172 kg

Enclosed Cab Adds to Operating Weight	82 kg
Enclosed Cab Adds to Operating Weight - ROC (35%)	17 kg
Enclosed Cab Adds to Operating Weight - Tip Load	49 kg
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.
Operating Weight - ROC (35%)	1133 kg
Operating Weight - ROC (50%)	1619 kg
Operating Weight - Tip Load	3238 kg
Wide Track (400 mm/15.7 in) Adds to Operating Weight	54 kg

Service Refill Capacities

Cooling System	11.5 l
Engine Crankcase	8.2 l
Fuel Tank	95 l
Hydraulic System	36.8 l
Hydraulic Tank	26 l

Dimensions

Bucket Pin Height - Carry Position	195 mm
Bucket Pin Height - Maximum Lift	3150 mm
Bucket Pin Reach - Maximum Lift	151 mm
Clearance at Maximum Lift and Dump	2424 mm
Departure Angle	30.6°
Ground Clearance	212 mm
Height - Top of Cab	2115 mm
Length - Track on Ground	1485 mm
Length - With Bucket on Ground	3430 mm
Length - Without Bucket	2800 mm
Maximum Dump Angle	43.6°
Maximum Overall Height	3941 mm
Maximum Reach - With Arms Parallel to Ground	1162 mm
Overall Length - Track	1948 mm
Rack Back Angle - Maximum Height	85.2°
Reach at Maximum Lift/Dump	540 mm
Roll Back Angle	27°
Turning Radius from Center - Bucket (racked)	2105 mm

Turning Radius from Center - Coupler	1377 mm
Turning Radius from Center - Machine Rear	1656 mm
Vehicle Width (320 mm/12.6 in tracks)	1675 mm
Vehicle Width (400 mm/15.7 in tracks)	1760 mm

Cab

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

Power Train

Travel Speed - Forward or Reverse - Two Speed	14.7 km/h
Travel Speed - Forward or Reverse - One Speed	9.2 km/h

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 B 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, 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