

Product Specifications For 275



Engine

Gross Power - SAE J1995	111 hp
Bore	4.7 in
Displacement	221 in ³
Net Power - ISO 9249	109 hp
Net Power - SAE 1349	82 hp
Peak Torque at 1,360 rpm SAE J1995	370 lb/ft
Stroke	3.9 in
Engine Model	Cat® C3.6 TA (turbocharged after-cooled)

Operating Specifications

Rated Operating Capacities - 35% Tipping Load	4156 lb
Breakout Force - Lift Cylinder	6422 lb
Breakout Force - Tilt Cylinder	9963 lb
Ground Contact Area - With 450 mm/17.7 in Track	2808 in ²
Ground Pressure - With 450 mm/17.7 in Track	4.5 psi
Rated Operating Capacities - 50% Tipping Load	5937 lb
Rated Operating Capacity with Optional Counterweight	4435 lb
Tipping Load	11874 lb

Weights*

Operating Weight	12401 lb
Counterweight Adds to Operating Weight	428 lb
Counterweight Adds to Operating Weight - ROC (35%)	105 lb
Counterweight Adds to Operating Weight - Tip Load	796 lb
Enclosed Cab Adds to Operating Weight	218 lb
Enclosed Cab Adds to Operating Weight - ROC (35%)	105 lb
Enclosed Cab Adds to Operating Weight - Tip Load	214 lb
Note	*Operating Weight, Operating Specifications, and Dimensions are all based on 75 kg (165 lb) operator, all fluids, two speed, 2036 mm (80 in) low profile bucket, 400 mm (15.7 in) tracks, dual flange front idler/single flange rear idler, standard flow hydraulics, open Rollover Protective Structure (ROPS) cab,mechanical suspension seat, standard monitor, 1000 CCA battery, no optional counterweights and manual quick coupler (unless otherwise noted).

Dimensions

Bucket Pin Height - Carry Position	8.1 in
Bucket Pin Height - Maximum Lift	134.4 in
Bucket Pin Reach - Maximum Lift	16.3 in
Clearance at Maximum Lift and Dump	106.1 in
Departure Angle	29.5°
Ground Clearance	11 in
Height - Top of Cab	87.8 in
Length - Track on Ground	72.3 in
Length - With Bucket on Ground	152.8 in
Length - Without Bucket	128 in
Maximum Overall Height	165.1 in
Maximum Reach - With Arms Parallel to Ground	46.7 in
Overall Length - Track	83.7 in
Rack Back Angle - Maximum Height	86.7°
Reach at Maximum Lift/Dump	32 in
Roll Back Angle	27°
Turning Radius from Center - Bucket (racked)	91.3 in
Turning Radius from Center - Coupler	60.3 in
Turning Radius from Center - Machine Rear	76 in

Vehicle Width (450 mm/17.7 in tracks)	77.8 in
Maximum Dump Angle	44.7°

Cab

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

Service Refill Capacities

Cooling System	4.6 gal (US)
Engine Crankcase	2.4 gal (US)
Fuel Tank	36.9 gal (US)
Hydraulic System	10.8 gal (US)
Hydraulic Tank	6.9 gal (US)
Diesel Exhaust Fluid (DEF) Tank	2.9 gal (US)

Power Train

Travel Speed - Forward or Reverse - One Speed	5.2 mile/h
Travel Speed - Forward or Reverse - Two Speed	7.8 mile/h

Hydraulic System

Hydraulic Flow - High Flow - Loader Hydraulic Flow	34 gal/min
Hydraulic Flow - High Flow - Loader Hydraulic Pressure	3500 psi
Hydraulic Flow - High Flow XPS - Hydraulic Power (Calculated)	80.7 hp

Hydraulic Flow - High Flow XPS - Maximum Loader Hydraulic Flow	34 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

275 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 – 450 mm (17.7 in) bar tread, 450 mm (17.7 in) block 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 C3.6TA turbocharged, after-cooled 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
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

275 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