

Product Specifications For 275 XE



Engine

Gross Power - SAE J1995	122 hp
Bore	4.7 in
Displacement	221 in ³
Net Power - ISO 9249	120 hp
Net Power - SAE 1349	82 hp
Peak Torque at 1,360 rpm SAE J1995	370 lb/ft
Peak Torque - 1,500 rpm - SAE J1995	406 lb/ft
Stroke	3.9 in
Engine Model	Cat® C3.6 TA (turbocharged after-cooled)

Operating Specifications

Rated Operating Capacities - 35% Tipping Load	4205 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	4033 lb
Rated Operating Capacity with Optional Counterweight	2996 lb
Tipping Load	12015 lb

Weights*

Operating Weight	12705 lb
Counterweight Adds to Operating Weight	428 lb
Counterweight Adds to Operating Weight - ROC (35%)	279 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 all based on 75 kg (165 lb) operator, all fluids, two speed (variable), 2036 mm (80 in) low profile bucket, 400 mm (15.7 in) tracks, triple flange front/rear idler, XE (H6) hydraulics with rear auxiliary, enclosed cab with glass door, side windows, heater, air ride suspension seat, advanced 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	46.1 in
Overall Length - Track	92.2 in
Rack Back Angle - Maximum Height	86.7°
Reach at Maximum Lift/Dump	32 in
Roll Back Angle	27.3°
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 - XE - Maximum Loader Hydraulic Pressure	4496 psi
Hydraulic Flow - High Flow - Loader Hydraulic Flow	34 gal/min

Hydraulic Flow - XE - Maximum Loader Hydraulic Flow*	40 gal/min
Hydraulic Flow - High Flow - Loader Hydraulic Pressure	3500 psi
Hydraulic Flow - XE - Hydraulic Power (calculated)	103.9 hp
Hydraulic Flow - High Flow XPS - Hydraulic Power (Calculated)	80.7 hp
Hydraulic Flow - High Flow XPS - Maximum Loader Hydraulic Flow	23 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

Dimensions*

Vehicle Width (400 mm/15.7 in tracks)	75.8 in
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275 XE 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/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 XE 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