

# Product Specifications For 270 XE



## Engine

<b>Gross Power - SAE J1995:2014</b>	121 hp
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<b>Net Power - SAE 1349</b>	121 hp
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<b>Net Power - ISO 9249</b>	120 hp
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<b>Displacement</b>	221 in <sup>3</sup>
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<b>Stroke</b>	4.7 in
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<b>Bore</b>	3.9 in
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<b>Engine Model</b>	Cat C3.6TA (turbocharged, aftercooled)
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<b>Peak Torque - 1,600 rpm - SAE J1995</b>	406 lb/ft
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<b>Engine Power - ISO 14396</b>	134 hp
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<b>Note</b>	Advertised power is tested per the specified standard in effect at the time of manufacture. Net power advertised is the power available at the flywheel when the engine is equipped with fan at minimum speed, air intake system, exhaust system, and alternator.
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## Operating Specifications

<b>Rated Operating Capacity</b>	4015 lb
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<b>Note</b>	Operating Weight, Operating Specifications and Dimensions all based on 75 kg (165 lb) operator, all fluids, two speeds, 2036 mm (80in) low profile bucket, Cat 12 × 17.5 tires, HP5 XE hydraulics, enclosed cab with glass door and air conditioning, cloth air ride seat, advanced display, rear view camera, self level, 1000 CCA battery, front counterweight, no optional counterweights and manual quick coupler (unless otherwise noted).
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<b>Tipping Load</b>	8029 lb
<b>Breakout Force - Tilt Cylinder</b>	8267 lb

<b>Rated Operating Capacity with Optional Counterweight</b>	4372 lb
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<b>Breakout Force - Lift Cylinder</b>	6349 lb
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## Weights

<b>Operating Weight</b>	10847 lb
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## Dimensions

<b>Note</b>	Operating Weight, Operating Specifications and Dimensions all based on 75 kg (165 lb) operator, all fluids, two speeds, 2036 mm (80in) low profile bucket, Cat 12 × 17.5 tires, HP5 XE hydraulics, enclosed cab with glass door and air conditioning, cloth air ride seat, advanced display, rear view camera, self level, 1000 CCA battery, front counterweight, no optional counterweights and manual quick coupler (unless otherwise noted).
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<b>Wheel Base</b>	54.6 in
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<b>Height - Top of Cab</b>	87.5 in
<b>Vehicle Width over Tires</b>	72 in
<b>Ground Clearance</b>	9.4 in
<b>Departure Angle</b>	24.4°
<b>Maximum Dump Angle</b>	43.5°
<b>Roll Back Angle</b>	28°
<b>Reach - Maximum Lift/Dump</b>	29.5 in
<b>Turning Radius from Center - Coupler</b>	57.9 in
<b>Turning Radius from Center - Machine Rear</b>	74.7 in
<b>Bucket Pin Height - Maximum Lift</b>	135.4 in
<b>Turning Radius from Center - Bucket</b>	89.1 in
<b>Length - Without Bucket</b>	128.7 in

<b>Maximum Reach - With Arms Parallel to Ground</b>	46.5 in
<b>Clearance at Maximum Lift and Dump</b>	106.9 in
<b>Length - With Bucket on Ground</b>	153.9 in
<b>Maximum Overall Height</b>	165.9 in
<b>Bucket Pin Reach - Maximum Lift</b>	11.1 in
<b>Rack Back Angle - Maximum Height</b>	88°
<b>Bucket Pin Height - Carry Position</b>	9.3 in

## Cab

<b>ROPS</b>	ISO 3471:2008
<b>FOPS</b>	ISO 3449:2005 Level I
<b>FOPS Level II</b>	ISO 3449:2005 (Optional)

## Service Refill Capacities

<b>Cooling System</b>	4.6 gal (US)
<b>Engine Crankcase</b>	2.4 gal (US)

<b>Fuel Tank</b>	34.5 gal (US)
<b>Hydraulic System</b>	10.8 gal (US)
<b>Hydraulic Tank</b>	6.9 gal (US)
<b>Diesel Exhaust Fluid (DEF) Tank</b>	2.9 gal (US)

## Hydraulic System

<b>Hydraulic Flow - Standard - Loader Hydraulic Pressure</b>	3500 psi
<b>Hydraulic Flow - XE - Maximum Loader Hydraulic Pressure</b>	4496 psi
<b>Hydraulic Flow - High Flow XPS - Maximum Loader Hydraulic Flow</b>	34 gal/min
<b>Hydraulic Flow - Standard - Hydraulic Power (Calculated)</b>	46.4 hp
<b>Hydraulic Flow - XE - Hydraulic Power (calculated)</b>	103.9 hp
<b>Hydraulic Flow - Standard - Loader Hydraulic Flow</b>	23 gal/min
<b>Hydraulic Flow - High Flow XPS - Hydraulic Power (Calculated)</b>	80.7 hp
<b>Hydraulic Flow - XE - Maximum Loader Hydraulic Flow*</b>	40 gal/min
<b>Hydraulic Flow - High Flow XPS - Maximum Loader Hydraulic Pressure</b>	4061 psi

## Power Train

<b>Travel Speed - Forward or Reverse - Two Speed Option</b>	10.6 mile/h
<b>Travel Speed - Forward or Reverse - One Speed</b>	7.3 mile/h

## Noise Level

<b>Outside Cab**</b>	101 dB(A)
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<b>Note (1)</b>	Cab and Rollover Protective Structures (ROPS) are standard in North America and Europe.
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### 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.

## Inside Cab\*

83 dB(A)

### 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.

### 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.

## Sustainability

## Recyclability

93%

## 270 XE Standard Equipment

## ELECTRICAL

### Battery disconnect with lockout feature

## Work Tool Electrical Harness

Heavy duty battery

## 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 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

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

## **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

## **MANDATORY EQUIPMENT**

Quick Coupler: Mechanical or Hydraulic  
High Visibility Seat Belt: 50 mm (2 in), 75 mm (3 in), or 3-point lap/shoulder  
Tires: 12 x 16.5 or 14 x 17.5

## **PERFORMANCE PACKAGES**

Performance Package HP5: XE Hydraulics

## **COMFORT PACKAGES**

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**

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 Auxiliary (AUX) input, and Bluetooth 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 AUX input, and Bluetooth 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, Diesel Particulate Filter (DPF) wrap, quick disconnect guarding, fully enclosed drive line guarding, under step hydraulic lines guard cover, engine air inlet pre-cleaner. Some equipment varies by region)

## **270 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