

Product Specifications For 270



Engine

Gross Power - SAE J1995:2014	100 hp
Net Power - SAE 1349	100 hp
Displacement	221 in ³
Stroke	4.7 in
Bore	3.9 in
Engine Model	Cat C3.6TA (turbocharged, aftercooled)
Note	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.
Net Power - ISO 9249	99 hp
Peak Torque - 1,600 rpm - SAE J1995	333 lb/ft

Operating Specifications

Rated Operating Capacity	3557 lb
Tipping Load	7114 lb
Breakout Force - Tilt Cylinder	8267 lb
Breakout Force - Lift Cylinder	6349 lb

Rated Operating Capacity with Optional Counterweight 3914 lb

Note Operating Weight, Operating Specifications and Dimensions all based on 75 kg (165 lb) operator, all fluids, one speed, 1883 mm (74 in) low profile bucket, Cat 12 × 16.5 tires, standard flow hydraulics, enclosed cab with glass door, mechanical suspension seat, advanced display, 1000 CCA battery, front counterweight, no optional counterweights and manual quick coupler (unless otherwise noted).

Weights

Operating Weight 10441 lb

Note Operating Weight, Operating Specifications and Dimensions all based on 75 kg (165 lb) operator, all fluids, one speed, 1883 mm (74 in) low profile bucket, Cat 12 × 16.5 tires, standard flow hydraulics, enclosed cab with glass door, mechanical suspension seat, advanced display, 1000 CCA battery, front counterweight, no optional counterweights and manual quick coupler (unless otherwise noted).

Dimensions

Wheel Base 54.6 in

Height - Top of Cab 86.2 in

Vehicle Width over Tires 72 in

Ground Clearance 8 in

Departure Angle 23.6°

Maximum Dump Angle 43.5°

Maximum Overall Height 164.3 in

**Bucket Pin Reach -
Maximum Lift** 12.6 in

**Turning Radius from
Center - Machine
Rear** 74.7 in

**Turning Radius from
Center - Coupler** 57.9 in

**Reach - Maximum
Lift/Dump** 30.9 in

**Turning Radius from
Center - Bucket** 87.7 in

**Bucket Pin Height -
Maximum Lift** 133.5 in

Roll Back Angle 28°

**Maximum Reach -
With Arms Parallel to
Ground** 48 in

**Clearance at
Maximum Lift and
Dump** 105.4 in

**Length - Without
Bucket** 128.7 in

**Bucket Pin Height -
Carry Position** 8.7 in

**Length - With Bucket
on Ground** 153.9 in

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Rack Back Angle - Maximum Height 88°

Cab

ROPS ISO 3471:2008

FOPS ISO 3449:2005 Level I

FOPS Level II ISO 3449:2005 (Optional)

Service Refill Capacities

Cooling System 4.6 gal (US)

Engine Crankcase 2.4 gal (US)

Fuel Tank 34.5 gal (US)

Hydraulic System 10.8 gal (US)

Hydraulic Tank 6.9 gal (US)

Diesel Exhaust Fluid (DEF) Tank 2.9 gal (US)

Hydraulic System

Hydraulic Flow - High Flow XPS - Maximum Loader Hydraulic Flow 34 gal/min

Hydraulic Flow - Standard - Hydraulic Power (Calculated) 46.4 hp

Hydraulic Flow - High Flow - Maximum Loader Hydraulic Pressure 3500 psi

Hydraulic Flow - Standard - Loader Hydraulic Flow 23 gal/min

Hydraulic Flow - High Flow XPS - Hydraulic Power (Calculated) 80.7 hp

Hydraulic Flow - High Flow - Hydraulic Power (Calculated) 69.6 hp

Hydraulic Flow - High Flow - Maximum Loader Hydraulic Flow 34 gal/min

Hydraulic Flow - Standard - Loader Hydraulic Pressure 3500 psi

Hydraulic Flow - High Flow XPS - Maximum Loader Hydraulic Pressure 4061 psi

Power Train

Travel Speed - Forward or Reverse - Two Speed Option 9.6 mile/h

Travel Speed - Forward or Reverse - One Speed 6.6 mile/h

Noise Level

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.

Outside Cab** 101 dB(A)

Note (1) Cab and Rollover Protective Structures (ROPS) are standard in North America and Europe.

Inside Cab* 83 dB(A)

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.

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

270 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, Tilt/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

Auxiliary Hydraulics: Standard or High Flow XPS
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 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 Joysticks, Standard Monitor, Key Start, 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 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-toframe 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 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