

# Product Specifications For 285 XE



## Engine

<b>Gross Power - SAE J1995</b>	121 hp
<b>Bore</b>	4.7 in
<b>Displacement</b>	220 in <sup>3</sup>
<b>Net Power - ISO 9249</b>	120 hp
<b>Net Power - SAE 1349</b>	121 hp
<b>Peak Torque - 1,500 rpm - SAE J1995</b>	406 lb/ft
<b>Stroke</b>	3.9 in
<b>Engine Model</b>	Cat® C3.6 TA (turbocharged after-cooled)
<b>Note</b>	Maximum Gross Power ISO 14396:2002 (at 2200 RPM) – with High Flow Attachment connected: 100 kW (134.1 hp)

## Operating Specifications

<b>Rated Operating Capacities - 35% Tipping Load</b>	4520 lb
<b>Breakout Force - Lift Cylinder</b>	8730 lb
<b>Breakout Force - Tilt Cylinder</b>	13920 lb
<b>Ground Contact Area - With 450 mm/17.7 in Track</b>	2724 in <sup>2</sup>
<b>Ground Pressure - With 450 mm/17.7 in Track</b>	5 psi
<b>Rated Operating Capacities - 50% Tipping Load</b>	6457 lb
<b>Tipping Load</b>	12915 lb

**Ground Pressure - With 400 mm/15.7 in Track**

5.6 psi

## Weights\*

**Operating Weight** 13669 lb

**Counterweight Adds to Operating Weight** 428 lb

**Counterweight Adds to Operating Weight - ROC (35%)** 296 lb

**Counterweight Adds to Operating Weight - Tip Load** 847 lb

**Note** \*Operating Weight, Operating Specifications, and Dimensions are all based on 75 kg (165 lb) operator, all fluids, two speed, 2188 mm (86 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** 8.2 in

**Bucket Pin Height - Maximum Lift** 146.6 in

**Bucket Pin Reach - Maximum Lift** 16.3 in

**Clearance at Maximum Lift and Dump** 119.6 in

**Departure Angle** 26°

<b>Ground Clearance</b>	11 in
<b>Height - Top of Cab</b>	87.8 in
<b>Length - Track on Ground</b>	72 in
<b>Length - With Bucket on Ground</b>	157.4 in
<b>Length - Without Bucket</b>	132.3 in
<b>Maximum Overall Height</b>	178 in
<b>Maximum Reach - With Arms Parallel to Ground</b>	50.6 in
<b>Overall Length - Track</b>	85.8 in
<b>Rack Back Angle - Maximum Height</b>	89°
<b>Reach at Maximum Lift/Dump</b>	34.7 in
<b>Roll Back Angle</b>	27.2°
<b>Turning Radius from Center - Bucket (racked)</b>	94.5 in
<b>Turning Radius from Center - Coupler</b>	62.1 in
<b>Turning Radius from Center - Machine Rear</b>	74.3 in
<b>Vehicle Width (450 mm/17.7 in tracks)</b>	81.8 in
<b>Maximum Dump Angle</b>	40.5°

# Cab

<b>FOPS</b>	ISO 3449:2005 Level I
<b>ROPS</b>	ISO 3471:2008

## Service Refill Capacities

Cooling System	4.6 gal (US)
Engine Crankcase	2.4 gal (US)
Fuel Tank	36 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	4.8 mile/h
Travel Speed - Forward or Reverse - Two Speed	7.7 mile/h

## Hydraulic System

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
Hydraulic Flow - XE - Maximum Loader Hydraulic Pressure	4496 klb/in <sup>2</sup>
Hydraulic Flow - XE - Maximum Loader Hydraulic Flow*	40 gal/min

## 285 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 – 400 mm (15.7 in) block tread, 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 HP5: XE Hydraulics

Performance Package HP6: XE Hydraulics, Rear Auxiliary Ready

### 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 (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

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.

LM1 – intermediate level land management guarding and sealing† (HD1 + turbo guard, exhaust stack wrap, Diesel Particulate Filter (DPF)/ Emission component wraps, light guarding, quick disconnect guarding, hydraulic lines guard cover (under step), screw-to-connect auxiliary hydraulic couplings, and engine air inlet pre-cleaner.) †Some equipment varies by region.

LM2 – most comprehensive land management guarding and sealing† (HD1 + increased fuel capacity (220 L/58 gal), turbo guard, exhaust stack wrap, DPF/Emission component wraps, light guarding, quick disconnect guarding, hydraulic lines guard cover (under step), screw-to-connect auxiliary hydraulic couplings, and engine air inlet pre-cleaner.) †Some equipment varies by region.

## **ELECTRICAL**

Work Tool Electrical Harness

Heavy duty battery

Battery disconnect with lockout feature

12-volt Electrical System

100 Ampere Alternator

LED Work Lights

Auto Reverse Lights

Switch Backlighting

Interior LED Dome Light

Backup Alarm

Electrical Outlet, Beacon

Exterior Courtesy Lighting

## **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 and case drain  
Hydraulic oil level sight gauge

## **POWER TRAIN**

Cat C3.6TA turbocharged, after-cooled 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**

E-bar (equalizer bar) suspension  
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

## **285 XE Optional Equipment**

### **OPTIONAL EQUIPMENT**

External Counterweights  
Beacon, LED  
Oil, Hydraulic, Cold Operation  
4-point machine lifting eyes  
Paint, Custom  
Speed Sensitive Ride Control  
Bluetooth Key Security  
Attachment Hose Guide  
Corrosion Inhibitor Coating