

# Product Specifications For 301.5



## Engine

<b>Net Power</b>	15.7 kW
<b>Engine Model</b>	C1.1
<b>Displacement</b>	1.1 l
<b>Stroke</b>	81 mm
<b>Bore</b>	77 mm
<b>Emissions</b>	Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
<b>Note</b>	Net power is tested per ISO 9249:2007 and 80/1269/EEC.
<b>Note (2)</b>	Net power advertised is the power available at the flywheel when the engine is at rated speed and rated power when the engine is installed with the factory configured fan, air intake system, exhaust system, and alternator with a minimum alternator load.
<b>Note (1)</b>	Engine power is tested per ISO 14396:2002.
<b>Net Power - 2,400 rpm - ISO 9249, 80/1269/EEC</b>	15.7 kW
<b>Gross Power - SAE J1995:2014</b>	16.1 kW

## Weights

<b>Operating Weight</b>	1775 kg
<b>Minimum Operating Weight with Canopy*</b>	1580 kg
<b>Note (1)</b>	*Minimum Weight is based on rubber tracks, operator, fixed undercarriage and full fuel tank.

<b>Maximum Operating Weight with Canopy**</b>	1775 kg
---	---------

<b>Note (2)</b>	**Maximum Weight is based on steel tracks, operator, expandable undercarriage and full fuel tank.
-----------------	---

<b>EU: CE Plate Weight***</b>	1740 kg
-------------------------------	---------

<b>Note (3)</b>	***CE Plate Weight is based on the most common EU configuration. Includes 75 kg (165 lb) operator and full fuel tank and excludes bucket.
-----------------	---

## Dimensions - Long Stick

<b>Dig Depth</b>	2540 mm
------------------	---------

<b>Maximum Blade Height</b>	275 mm
-----------------------------	--------

<b>Stick Length</b>	1160 mm
---------------------	---------

<b>Boom Height - Shipping Position</b>	1040 mm
--	---------

<b>Maximum Reach</b>	3960 mm
----------------------	---------

<b>Maximum Dig Height</b>	3490 mm
---------------------------	---------

<b>Note</b>	*Overall Shipping Length depends on blade position during shipment.
-------------	---

<b>Tail Swing</b>	820 mm
-------------------	--------

<b>O/A Undercarriage Length</b>	1460 mm
---------------------------------	---------

<b>Track Width - Expanded</b>	1300 mm
-------------------------------	---------

<b>Boom In Reach</b>	1450 mm
----------------------	---------

<b>O/A Shipping Height</b>	2310 mm
----------------------------	---------

<b>Maximum Blade Depth</b>	260 mm
----------------------------	--------

<b>Maximum Reach - Ground Level</b>	3890 mm
<b>Overall Shipping Length*</b>	3590 mm
<b>Maximum Dump Clearance</b>	2510 mm
<b>Swing Bearing - Height</b>	445 mm
<b>Minimum Ground Clearance Below Undercarriage</b>	155 mm
<b>Boom Swing - Left</b>	65 °
<b>Vertical Wall</b>	1890 mm
<b>Track Width - Retracted</b>	990 mm
<b>Track Belt/Shoe Width</b>	230 mm
<b>Boom Swing - Right</b>	50 °

## Blade

<b>Height</b>	225 mm
<b>Note</b>	*Expanded – 1300 mm (51 in)
<b>Width*</b>	990 mm

## Dimensions - Standard Stick

<b>Swing Bearing - Height</b>	445 mm
<b>O/A Undercarriage Length</b>	1460 mm
<b>Maximum Reach - Ground Level</b>	3730 mm
<b>Boom Swing - Left</b>	65 °

<b>Maximum Reach</b>	3800 mm
<b>O/A Shipping Height</b>	2310 mm
<b>Maximum Blade Depth</b>	260 mm
<b>Minimum Ground Clearance Below Undercarriage</b>	155 mm
<b>Vertical Wall</b>	1800 mm
<b>Dig Depth</b>	2340 mm
<b>Track Width - Expanded</b>	1300 mm
<b>Track Belt/Shoe Width</b>	230 mm
<b>Stick Length</b>	960 mm
<b>Maximum Dig Height</b>	3430 mm
<b>Overall Shipping Length*</b>	3620 mm
<b>Boom In Reach</b>	1460 mm
<b>Maximum Blade Height</b>	275 mm
<b>Maximum Dump Clearance</b>	2450 mm
<b>Boom Swing - Right</b>	50 °
<b>Note</b>	*Overall Shipping Length depends on blade position during shipment.
<b>Boom Height - Shipping Position</b>	1090 mm
<b>Tail Swing</b>	820 mm

Track Width - Retracted	990 mm
-------------------------	--------

## Hydraulic System

Pump Flow at 2,400 rpm	66 L/min
------------------------	----------

Digging Force - Stick - Long	7.2 kN
------------------------------	--------

Operating Pressure - Swing	103 bar
----------------------------	---------

Digging Force - Stick - Standard	8.2 kN
----------------------------------	--------

Auxiliary Circuit - Primary - Flow	33 L/min
------------------------------------	----------

Auxiliary Circuit - Secondary - Pressure	213 bar
--	---------

Operating Pressure - Travel	213 bar
-----------------------------	---------

Operating Pressure - Equipment	213 bar
--------------------------------	---------

Auxiliary Circuit - Secondary - Flow	14 L/min
--------------------------------------	----------

Digging Force - Bucket	14.1 kN
------------------------	---------

Auxiliary Circuit - Primary - Pressure	213 bar
--	---------

Type	Load Sensing Hydraulics with Variable Displacement Piston Pump
------	--

## Travel System

Maximum Traction Force - High Speed	10.3 kN
-------------------------------------	---------

Ground Pressure - Minimum Weight	27.3 kPa
----------------------------------	----------

Ground Pressure - Maximum Weight	30.6 kPa
----------------------------------	----------

Travel Speed - High	4.4 km/h
---------------------	----------

Travel Speed - Low	2.9 km/h
--------------------	----------

Maximum Traction Force - Low Speed	16 kN
------------------------------------	-------

Gradeability - Maximum	30 degrees
------------------------	------------

## Certification - Canopy

Roll Over Protective Structure (ROPS)	ISO 12117-2:2008
---------------------------------------	------------------

Tip Over Protective Structure (TOPS)	ISO 12117:1997
--------------------------------------	----------------

Top Guard	ISO 10262:1998 (Level I)
-----------	--------------------------

## Sound

Average Exterior Sound Pressure (ISO 6395:2008)	93 dB(A)
---	----------

Note	European Union Directive "2000/14/EC"
------	---------------------------------------

## Service Refill Capacities

Cooling System	3.9 l
----------------	-------

Engine Oil	4.4 l
------------	-------

Hydraulic System	26 l
------------------	------

Hydraulic Tank	18 l
----------------	------

Fuel Tank	22 l
-----------	------

## Swing System

Machine Swing Speed	9.8 r/min
---------------------	-----------

## Weight Increase From Minimum Configuration

Long Stick	8 kg
------------	------

**Steel Tracks**

57 kg

**Expandable Undercarriage**

129 kg

## **Sustainability**

**Recyclability**

95%

## **301.5 Standard Equipment**

### **ENGINE**

Cat C1.1 Engine (U.S. EPA Tier 4 Final/EU Stage V)

Automatic Engine Idle

Automatic Engine Shutdown

Automatic Two Speed Travel

Fuel Water Separator

Power on Demand (not available in all regions)

Variable Displacement Piston Pump

Load Sensing/Flow Sharing Hydraulics

### **HYDRAULICS**

Smart Tech Electronic Pump

Accumulator

Automatic Swing Brake

Auxiliary Hydraulic Lines

One and Two Way Auxiliary Flow

Continuous Auxiliary Flow

Auxiliary Line Quick Disconnects

### **OPERATOR ENVIRONMENT**

Tilt-up Canopy

Top Guard ISO 10262:1998 Level I

ROPS – ISO 12117-2:2008

TOPS – ISO 12117:1997

Machine 2-Point Lifting

Stick Steer Mode

Travel Cruise Control

Control Pattern Changer (optional in some regions)

Adjustable Wrist Rests

Washable Floor Mat

Travel Pedals and Hand Levers

Machine Security

Machine Security – Standard Key with Pass Code

Vinyl Non-Suspension Seat

Hydraulic Lockout – All Controls  
Retractable High Visibility Seat Belt (75 mm/3 in)  
Coat Hook  
Cup Holder  
Storage Pocket  
Skylight  
Mounting Bosses for Front  
Signaling/Warning Horn  
Boom Light, Halogen  
Utility Space for Mobile Phone  
Next Generation Color LCD Monitor (IP66)  
– Fuel Level and Coolant Temperature Gauges  
– Maintenance and Machine Monitoring  
– Performance and Machine Adjustments  
– Numeric Security Code  
– Multiple Languages  
– Hour Meter with Wake Up Switch

## **UNDERCARRIAGE**

Rubber Belt (230 mm/9 in wide)  
Dozer Blade  
Dozer Blade Float  
Hydraulic Track Adjusters  
Tie Downs on Track Frame

## **BOOM, STICK AND LINKAGES**

One Piece Boom (1780 mm/70 in)  
Standard Stick (960 mm/37.8 in)  
Front Shovel Capable  
Front Shovel Capable – Pin-On  
Thumb Ready (not available in all regions)  
Certified Lifting Eye (optional in some regions)

## **ELECTRICAL**

12 Volt Battery  
Software (machine and monitor)  
Maintenance Free Battery  
Signaling/Warning Horn  
12 Volt Power Socket

## **301.5 Optional Equipment**

### **OPERATOR ENVIRONMENT**

Control Pattern Changer (optional in some regions)  
No Travel Pedals and Hand Levers  
Machine Security – Push to Start with Key Fob/Pass Code

Vinyl Suspension Seat  
LED Front Lights  
LED Front and Rear Lights  
LED Boom Light  
Mirrors Left and Right

## **UNDERCARRIAGE**

Steel Track (230 mm/9 in wide)  
Expandable Undercarriage

## **BOOM, STICK AND LINKAGES**

Long Stick (1160 mm/45.7 in)  
Front Shovel Capable – Dual Lock Manual Coupler  
Attachments including Couplers, Thumbs, Buckets, Augers and Hammers  
2nd Auxiliary Hydraulic Lines  
Boom Lowering Check Valve  
Stick Lowering Check Valve  
Hydraulic Quick Coupler Lines (not available in all regions)

## **ELECTRICAL**

Lock Out/Tag Out Battery Disconnect  
Product Link PL243 (regulations apply)  
Product Link PLE643 (regulations apply)  
Travel Alarm (standard in some regions)

## **GUARDING**

Guard, Canopy  
Guard, Mesh

## **OTHER**

Bio Oil Capable  
Eco Drain  
Water Jacket Heater