

# PRODUCT SPECIFICATIONS FOR 307.5



## ENGINE

<b>Net Power</b>	54.8 HP
<b>Engine Model</b>	Cat C2.4 Turbo
<b>Displacement</b>	148 in <sup>3</sup>
<b>Gross Power - SAE J1995</b>	57.9 HP
<b>Bore</b>	3.4 in
<b>Stroke</b>	4 in
<b>Rated Net Power - 2,400 rpm - U.S. EPA Tier 4 Final/EU Stage V - ISO 9249/EEC 80/1269</b>	54.8 HP

## WEIGHTS

<b>Operating Weight</b>	17905 lb
<b>Note (2)</b>	**Maximum Weight is based on steel tracks with rubber pads, counterweight, operator, full fuel tank, long stick, blade and no bucket.
<b>Maximum Operating Weight with Cab**</b>	17905 lb
<b>Minimum Operating Weight with Cab*</b>	16549 lb
<b>Note (1)</b>	*Minimum Weight is based on steel tracks, no counterweight, operator, full fuel tank, standard stick, blade and no bucket.

## DIMENSIONS - LONG STICK

<b>Dig Depth</b>	182.8 in
<b>Cab Height</b>	100 in

<b>Maximum Blade Height</b>	14.6 in
<b>Track Belt/Shoe Width</b>	17.7 in
<b>Maximum Dump Clearance</b>	225.1 in
<b>O/A Undercarriage Length</b>	108.7 in
<b>O/A Track Width</b>	86.6 in
<b>Vertical Wall</b>	161.9 in
<b>Width over Upper House</b>	88.6 in
<b>Boom In Reach</b>	88.6 in
<b>Stick Length</b>	86.9 in
<b>Tail Swing with Counterweight</b>	76 in
<b>Maximum Reach</b>	267.9 in
<b>Ground Clearance</b>	14.6 in
<b>Swing Bearing - Height</b>	29.7 in
<b>Tail Swing without Counterweight</b>	70.9 in
<b>Maximum Dig Height</b>	305.7 in
<b>Maximum Blade Depth</b>	16 in
<b>Maximum Reach - Ground Level</b>	262.6 in
<b>Height - Boom Transport - No Tools</b>	100.4 in
<b>Overall Shipping Length - without Counterweight</b>	240.9 in

<b>Overall Shipping Length - with Counterweight</b>	246.1 in
---	----------

<b>Note (1)</b>	Boom Height when stick is pinned in transport position with no attachments.
-----------------	---

<b>Height - Boom Working - With Tools</b>	124 in
---	--------

<b>Note (2)</b>	Boom Height when stick is pinned in working position with attachments.
-----------------	--

## **WEIGHT INCREASE FROM MINIMUM CONFIGURATION**

<b>Long Stick</b>	181 lb
-------------------	--------

<b>Counterweight</b>	552 lb
----------------------	--------

<b>Steel Tracks with Pads</b>	628 lb
-------------------------------	--------

## **TRAVEL SYSTEM**

<b>Maximum Traction Force - Low Speed</b>	14035 lb
---	----------

<b>Maximum Traction Force - High Speed</b>	5856 lb
--	---------

<b>Travel Speed - High</b>	3.1 mile/h
----------------------------	------------

<b>Ground Pressure - Maximum Weight</b>	5.5 psi
---	---------

<b>Travel Speed - Low</b>	1.9 mile/h
---------------------------	------------

<b>Gradeability - Maximum</b>	30 degrees
-------------------------------	------------

<b>Ground Pressure - Minimum Weight</b>	5.1 psi
---	---------

## **SERVICE REFILL CAPACITIES**

<b>Cooling System</b>	2.6 gal (US)
-----------------------	--------------

<b>Hydraulic System</b>	29 gal (US)
-------------------------	-------------

**Hydraulic Tank** 14 gal (US)

**Fuel Tank** 38 gal (US)

**Engine Oil** 2.5 gal (US)

## HYDRAULIC SYSTEM

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

**Operating Pressure - Swing** 3626 psi

**Note** Flow and pressure are not combinable. Under load, as  
flow rises pressure goes down.

**Pump Flow at 2,400 rpm** 44 gal/min

**Digging Force - Stick - Standard** 8504 lb

**Operating Pressure - Travel** 4134 psi

**Operating Pressure - Equipment** 4134 psi

**Digging Force - Stick - Long** 7579 lb

**Digging Force - Bucket** 12272 lb

**Maximum Auxiliary Circuit - Secondary -  
Flow at Pump** 9 gal/min

**Maximum Auxiliary Circuit - Secondary -  
Pressure at Pump** 4134 psi

**Maximum Auxiliary Circuit - Primary -  
Flow at Pump** 35 gal/min

**Maximum Auxiliary Circuit - Primary -  
Pressure at Pump** 4134 psi

## SWING SYSTEM

Machine Swing Speed	10 r/min
---------------------	----------

## BLADE

Height	17 in
--------	-------

Width	90 in
-------	-------

## CERTIFICATION - CAB

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

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

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

## SOUND

Operator Sound Pressure (ISO 6396:2008)	72 dB(A)
---	----------

Average Exterior Sound Pressure (ISO 6395:2008)	98 dB(A)
---	----------

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

## AIR CONDITIONING SYSTEM

<b>Air Conditioning</b>	The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains .90 kg of refrigerant which has a CO2 equivalent of 1.287 metric tonnes.
-------------------------	---

## DIMENSIONS - STANDARD STICK

Tail Swing with Counterweight	76 in
-------------------------------	-------

Vertical Wall	141.6 in
---------------	----------

Tail Swing without Counterweight	70.9 in
----------------------------------	---------

<b>Stick Length</b>	65.6 in
<b>Boom In Reach</b>	66.2 in
<b>Track Belt/Shoe Width</b>	17.7 in
<b>Ground Clearance</b>	14.6 in
<b>O/A Track Width</b>	86.6 in
<b>Maximum Reach - Ground Level</b>	242.1 in
<b>O/A Undercarriage Length</b>	108.7 in
<b>Width over Upper House</b>	88.6 in
<b>Maximum Reach</b>	247.9 in
<b>Swing Bearing - Height</b>	29.7 in
<b>Maximum Blade Height</b>	14.6 in
<b>Maximum Blade Depth</b>	16 in
<b>Dig Depth</b>	161.4 in
<b>Maximum Dump Clearance</b>	208.6 in
<b>Cab Height</b>	100 in
<b>Maximum Dig Height</b>	289.3 in
<b>Height - Boom Working - With Tools</b>	107.5 in
<b>Overall Shipping Length - with Counterweight</b>	245.3 in

**Note (2)**

Boom Height when stick is pinned in working position with attachments. Standard Stick offers only one pin position.

**Overall Shipping Length -  
without Counterweight**

240.2 in

**Height - Boom Transport - No  
Tools**

101.2 in

**Note (1)**

Boom Height when stick is pinned in transport position with no attachments.

## SUSTAINABILITY

**Recyclability**

96%

## 307.5 STANDARD EQUIPMENT

### ENGINE

Cat C2.4 Diesel Engine (U.S. EPA Tier 4 Final/EU Stage V) – Electronic Engine, Turbo, Diesel Particulate Filter (DPF)

Automatic Engine Idle

Automatic Engine Shutdown

Automatic Swing Brake

Automatic Two Speed Travel

Fuel Water Separator with Indicator

Radial Seal – Double Element Air Filter

Extended Life Coolant, -37° C ( -37° F)

### HYDRAULICS

Smart Tech Electronic Pump

Variable Displacement Piston Pump

Load Sensing/Flow Sharing Hydraulics

Power On Demand

Hydraulic Temperature Monitoring

Certified Accumulator

HYDO Advanced Hydraulic Oil

### OPERATOR ENVIRONMENT

Top Guard ISO 10262 1998 Level I

ROPS ISO 12117-2:2008

Stick Steer Mode

Travel Cruise Control

Control Pattern Changer  
Adjustable Wrist Rests  
Molded Footrests  
Removable, Washable Floor Mat  
Travel Pedals and Hand Levers  
Cat Key with Passcode Option  
HVAC with Automatic Temperature Control  
Hydraulic Lockout Controls  
Integrated Lower Front Window  
Assisted Front Window Overhead Storage  
Rear Window Emergency Exit  
Fabric, High Back, Suspension Seat  
Retractable Seat Belt (75 mm/3 in)  
Coat Hook  
Cup Holder  
LED Interior Light  
Literature Holder  
Mounting Bosses for Top and Front Guards  
12V Power Socket  
Radio – Bluetooth®, Auxiliary, Microphone, USB (charging only)  
Skylight  
Signaling/Warning Horn  
Cab and (left side) Boom Work Lights  
Utility Space for Mobile Phone  
Next Generation Color LCD Monitor (IP66)  
– Jog Dial Interface (cab machines only)  
– Fuel Level and Coolant Temperature Gauges  
– Maintenance and Machine Monitoring  
– Performance and Machine Adjustments  
– Numeric Security Code  
– Multiple Languages  
– Camera Ready (IP68 & IP69K)  
– Hour Meter with Wake Up Switch

## **UNDERCARRIAGE**

Greased and Lubricated Track  
Tie Down Eyes on Track Frame  
Dozer Straight Blade  
Dozer Float  
Bolt-on, Reversible Wear Edge

## **BOOM, STICK AND LINKAGES**

One Piece Boom (3700 mm/145.7 in)  
Standard Stick (1665 mm/65.6 in)  
Front Shovel Capable – Pin-on/Manual Coupler/Hydraulic Coupler for Cat Tools  
Thumb Ready (not available in all regions)  
Certified Lifting Eye (optional in some regions)



## **ELECTRICAL**

12 Volt Electrical System  
90 Ampere Alternator  
900 CCA Maintenance Free Battery  
Battery Disconnect  
Ignition Key Stop Switch  
Product Link™ Basic (regulations apply)  
Travel Alarm

## **OTHER**

Locks on External Enclosure Doors  
Lockable Fuel Cap  
Beacon Socket  
Rear Reflectors

## **307.5 OPTIONAL EQUIPMENT**

## **OPERATOR ENVIRONMENT**

Air Suspension Heated Seat  
Rain Visor  
Next Generation Advanced Monitor (below are all included with Next Generation Advanced Monitor option)  
– Jog Dial Control Interface  
– Touch Screen  
– Site Reference System  
– High Definition Camera Capable (IP68 & IP69K)  
– Numeric Security Code

## **UNDERCARRIAGE**

Steel Tracks (450 mm/17.7 in wide)  
Wide Steel Tracks (600 mm/23.6 in)  
Steel Track with Rubber Pads  
Track Guides

## **BOOM, STICK AND LINKAGES**

Long Stick (2200 mm/86.6 in)  
Attachments including Buckets, Augers and Hammers  
2nd Auxiliary Hydraulic Lines  
Boom Lowering Check Valve  
Stick Lowering Check Valve  
Bucket Linkage with Lift Eye

## **ELECTRICAL**

Product Link Elite (regulations apply)

Rearview Camera

Rotating Beacon

## **GUARDING**

Heavy Duty Front Guard ISO 10262 1998 Level II

Mesh Front Guard ISO 10262 1998 Level I

Overhead Cab Guard ISO 10262 1998 Level II

Polycarbonate Front Window EN356 P5A (Cab Only)

Track Guards

## **OTHER**

Water Jacket Heater

Refueling Pump