

Product Specifications For 310 - Tier 4 / Stage



V

Engine

Net Power	69.5 hp
Stroke	4.7 in
Note	Net power advertised is the power available at the flywheel when the engine is equipped with air cleaner, exhaust system and fan.
Bore	3.7 in
Displacement	203 in ³
Gross Power - SAE J1995:2014	74.3 hp
Engine Model - U.S. EPA Tier 4 Final/EU Stage V	Cat® C3.3B
Net Power - 2,200 rpm - ISO 9249:2007, 80/1269/EEC	69.5 hp
Note 1	Advertised power is tested per the specified standard in effect at the time of manufacture.

Weights

Operating Weight	23002 lb
Minimum Operating Weight with Cab*	21170 lb
Maximum Operating Weight with Cab**	23002 lb

Note (2)

**Maximum Weight is based on steel tracks with rubber pads, counterweight, operator, full fuel tank, long stick, blade and no bucket.

Note (1)

*Minimum Weight is based on steel tracks, no counterweight, operator, full fuel tank, long stick, blade and no bucket.

Weight Increase From Minimum Configuration

Counterweight	551 lb
Steel Tracks with Pads	728 lb
Extra Counterweight	1103 lb

Travel System

Maximum Traction Force - Low Speed	19064 lb
Maximum Traction Force - High Speed	6497 lb
Travel Speed - High	2.9 mile/h
Travel Speed - Low	1.6 mile/h
Ground Pressure - Maximum Weight	5.9 psi
Ground Pressure - Minimum Weight	5.4 psi
Gradeability - Maximum	30 degrees

Service Refill Capacities

Hydraulic Tank	14 gal (US)
Cooling System	2.6 gal (US)
Engine Oil	3 gal (US)
Fuel Tank	38 gal (US)
Hvdraulic Svstem	37 aal (US)

Hydraulic System

Operating Pressure - Swing	3336 psi
Digging Force - Bucket	17459 lb
Operating Pressure - Travel	4134 psi
Operating Pressure - Equipment	4134 psi
Note	Flow and pressure are not combinable. Under load, as flow rises pressure goes down.
Digging Force - Stick	11060 lb
Type	Load Sensing Hydraulics with Variable Displacement Piston Pump
Pump Flow at 2,400 rpm	62 gal/min
Maximum Auxiliary Circuit - Secondary - Flow at Pump	9 gal/min
Maximum Auxiliary Circuit - Primary - Pressure at Pump	4134 psi
Maximum Auxiliary Circuit - Secondary - Pressure at Pump	4134 psi
Maximum Auxiliary Circuit - Primary - Flow at Pump	35 gal/min

Swing System

Machine Swing Speed	10.6 r/min
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Blade

Height	17 in
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Width - Standard	97.2 in
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Width - Wide	103.9 in
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Certification - Cab

Top Guard	ISO 10262:1998 (Level I)
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Roll Over Protective Structure (ROPS)	ISO 12117-2:2008
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Sound

Average Exterior Sound Pressure (ISO 6395:2008)	99 dB(A)
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Operator Sound Pressure (ISO 6396:2008)	72 dB(A)
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Note	European Union Directive "2000/14/EC"
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Dimensions

Dig Depth	205.2 in
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Dimensions - Standard Stick

Tail Swing without Counterweight	70.9 in
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Stick Length	98.4 in
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Boom In Reach	83.3 in
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Maximum Reach	303 in
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Dig Depth	205.2 in
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Ground Clearance - Frame	14 in
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O/A Track Width	97.2 in
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Cab Height	100 in
Track Belt/Shoe Width	17.7 in
Maximum Blade Depth	18.8 in
Maximum Dump Clearance	229.5 in
Maximum Dig Height	313.8 in
Maximum Blade Height	16.6 in
Tail Swing - Standard Counterweight	76.1 in
O/A Undercarriage Length	126 in
Vertical Wall	172.6 in
Swing Bearing - Height	28.9 in
Maximum Reach - Ground Level	298 in
Overall Shipping Length - with Counterweight	274.9 in
Note (2)	**Boom Height when stick is pinned in working position with attachments.
Note (1)	*Boom Height when stick is pinned in transport position (if available) with no attachments.
Overall Shipping Length - without Counterweight	269.7 in
Height - Boom Transport - No Tools*	100.4 in
Height - Boom Working - With Tools**	106.3 in

Air Conditioning System

Air Conditioning The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1 kg of refrigerant which has a CO2 equivalent of 1.430 metric tonnes.

Sustainability

Recyclability 96%

310 - Tier 4 / Stage V Standard Equipment

ENGINE

Cat C3.3B 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

Electronic Variable Displacement Piston Pump

Load Sensing/Flow Sharing Hydraulics

Power On Demand

Hydraulic Temperature Monitoring

Certified Accumulator

HYDO Advanced Hydraulic Oil

OPERATOR ENVIRONMENT

TOPS – ISO 12117:1997

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
– 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 (4300 mm/169.3 in)
Front Shovel Capable – Pin-on/Manual Coupler/Hydraulic Coupler for Cat Tools (not available in all regions)
Thumb Ready (not available in all regions)

ELECTRICAL

12 Volt Electrical System
90 Ampere Alternator
900 CCA Maintenance Free Battery

500 CCA Maintenance Free Battery
Battery Disconnect

Ignition Key Stop Switch
Travel Alarm
Rear Camera

OTHER

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

GUARDING

Roll Over Protective Structure (ROPS) ISO 12117-2:2008
Top Guard ISO 10262:1998 (Level I)

TECHNOLOGY

Product Link Basic

310 - Tier 4 / Stage V Optional Equipment

OPERATOR ENVIRONMENT

Push to Start with Bluetooth® Key
Air Suspension Heated Seat
Rain Visor
Next Generation Advanced Monitor (below are all included with Next Generation Advanced Monitor option)
– Touch Screen
– Site Reference System
– High Definition Camera Capable (IP68 & IP69K)
– Numeric Security Code
Seat Belt Reminder System

UNDERCARRIAGE

Wide Dozer Blade
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 (2500 mm/98.4 in)

Attachments including Buckets, Augers and Hammers

2nd Auxiliary Hydraulic Lines

Boom Lowering Check Valve

Stick Lowering Check Valve

Certified Lifting Eye

ELECTRICAL

Rearview Camera

Rotating Beacon

GUARDING

Top Guard ISO 10262:1998 (Level II)

Front Guard (Mesh) ISO 10262:1998 (Level I)

Front Guard (Heavy Duty) ISO 10262:1998 (Level II)

OTHER

Water Jacket Heater

Refueling Pump

Counterweight (250 kg/551 lb)

Counterweight (500 kg/1103 lb)

TECHNOLOGY

Ease of Use Indicate

Ease of Use E-Fence

Cat Grade Advanced 2D