

PRODUCT SPECIFICATIONS FOR 304

Net Power	45 HP
Engine Model	C1.7 Turbo
Gross Power - 2,400 rpm - SAE J1995:2014	48.4 HP
Bore	3.3 in
Emissions	Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
Stroke	3.9 in
Displacement	101 in ³
Net Power - 2,400 rpm - ISO 9249, 80/1269/EEC	45 HP
Note	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.
Operating Weight	9867 lb
Minimum Operating Weight with Canopy*	8655 lb
Maximum Operating Weight with Canopy**	9647 lb
Note (2)	**Maximum Weight is based on steel tracks, operator, full fuel tank, long stick, straight blade, extra counterweight and no bucket.
Note (1)	*Minimum Weight is based on rubber tracks, operator, full fuel

tank, standard stick, straight blade, no bucket and no extra counterweight.

Maximum Operating Weight with Cab** 9867 lb

Minimum Operating Weight with Cab* 8875 lb

Steel Tracks 430 lb

Counterweight 496 lb

Angle Blade 243 lb

Long Stick 66 lb

Ground Pressure - Minimum Weight 4.2 psi

Maximum Traction Force - Low Speed 7329 lbf

Travel Speed - Low 2.2 mile/h

Ground Pressure - Maximum Weight 4.9 psi

Travel Speed - High 3.2 mile/h

Maximum Traction Force - High Speed 4271 lbf

Gradeability - Maximum 30 degrees

Cooling System 2.9 gal (US)

Engine Oil 1.6 gal (US)

Hydraulic System	17 gal (US)
Fuel Tank	17 gal (US)
Hydraulic Tank	14 gal (US)
Operating Pressure - Travel	3553 psi
Auxiliary Circuit - Secondary - Pressure	3553 psi
Digging Force - Stick - Long	4316 lbf
Auxiliary Circuit - Secondary - Flow	7 gal/min
Pump Flow at 2,400 rpm	25 gal/min
Operating Pressure - Swing	2611 psi
Auxiliary Circuit - Primary - Flow	21 gal/min
Auxiliary Circuit - Primary - Pressure	3553 psi
Note	Flow and pressure are not combinable. Under load, as flow rises pressure goes down.
Type	Load Sensing Hydraulics with Variable Displacement Piston Pump
Digging Force - Stick - Standard	4721 lbf
Digging Force - Bucket	8588 lbf
Operating Pressure -	3553 psi

Operating Pressure 3000 psi
Equipment

Boom Swing - Right 50 Degrees

Machine Swing Speed 9 r/min

Boom Swing - Left 78 Degrees

Angle Blade Height 14.2 in

Straight Blade Height 14.2 in

Straight Blade Width 66.9 in

Angle Blade Width 66.9 in

Angle Blade - Right 25 Degrees

Angle Blade - Left 25 Degrees

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

Top Guard ISO 10262:1998 (Level I)

Tip Over Protective Structure (TOPS) ISO 12117:1997

Average Exterior Sound Pressure (ISO 6395:2008) 97 dB(A)

Operator Sound Pressure (ISO 6396:2008) 76 dB(A)

Note European Union Directive "2000/14/EC"

Maximum Reach - Ground Level	204.7 in
Vertical Wall	94.3 in
Note	*Overall Shipping Length depends on blade position during shipment.
Tail Swing with Counterweight	51.2 in
Boom In Reach	88.8 in
Dig Depth	126.4 in
Maximum Dig Height	198.4 in
Maximum Blade Height	16.5 in
Swing Bearing - Height	21.9 in
Boom Swing - Left	20.9 in
Stick Length	54.9 in
O/A Undercarriage Length	87 in
Track Belt/Shoe Width	13.8 in
Boom Height - Shipping Position	63.8 in
Boom Swing - Right	28.7 in
Maximum Dump Clearance	143.5 in
Ground Clearance	12 in
Maximum Reach	209.8 in

O/A Shipping Height	100 in
Tail Swing without Counterweight	47.4 in
Maximum Blade Depth	18.7 in
Overall Shipping Length*	194.9 in
Dig Depth	138.2 in
Maximum Blade Depth	18.7 in
O/A Shipping Height	100 in
Maximum Dump Clearance	147.2 in
Stick Length	66.7 in
Maximum Dig Height	201.8 in
Maximum Reach - Ground Level	214.4 in
Track Width	66.9 in
Tail Swing with Counterweight	51.2 in
Swing Bearing - Height	21.9 in
Boom Height - Shipping Position	75.2 in
Boom Swing - Left	20.9 in
Maximum Reach	219.3 in

Boom In Reach	92.1 in
Boom Swing - Right	28.7 in
Track Belt/Shoe Width	13.8 in
Vertical Wall	99.8 in
Maximum Blade Height	16.5 in
Note	*Overall Shipping Length depends on blade position during shipment.
Overall Shipping Length*	194.9 in
Ground Clearance	12 in
O/A Undercarriage Length	87 in
Tail Swing without Counterweight	47.4 in

304 STANDARD EQUIPMENT

ENGINE

Cat® C1.7 Turbo 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

Canopy or Cab (Canopy not available in some regions)

Top Guard ISO 10262:1998 Level I

ROPS – ISO 12117-2:2008

TOPS – ISO 12117:1997

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 – Standard Key with Pass Code
Fabric Suspension Seat (Cab only)
Vinyl Suspension Seat (Canopy only)
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
Interior Light (Cab only)
Boom Light, Halogen (not available in all regions)
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
– Jog Dial (cab only)

UNDERCARRIAGE

Rubber Belt (350 mm/13.8 in)
Dozer Straight Blade
Dozer Blade Float
Tie Downs on Track Frame

BOOM, STICK AND LINKAGES

One Piece Boom (2500 mm/98.4 in)
Standard Stick (1395 mm/54.9 in)
Front Shovel Capable – Pin-On
Thumb Ready
Certified Lifting Eye

ELECTRICAL

12 Volt Battery
Software (machine and monitor)
Maintenance Free Battery
Battery Disconnect
12 Volt Power Socket
Travel Alarm (optional in some regions)

OTHER

Counterweight (225 kg/496 lb)

304 OPTIONAL EQUIPMENT OPERATOR ENVIRONMENT

Cab with Air Conditioning

Cab with Heater

No Travel Pedals and Hand Levers (optional in some regions)

Machine Security – Push to Start with Key Fob/Pass Code

LED Front Lights

LED Front and Rear Lights

LED Boom Light

Mirrors, Left, Right and Rear

Camera

Radio – Bluetooth®, Auxiliary, Microphone, USB (charging only) (Cab only)

Next Generation Advanced Monitor

– Touch Screen

– Site Reference System

– High Definition Camera Capable (IP68 and IP69K)

– Numeric Security Code

UNDERCARRIAGE

Steel Track (350 mm/13.8 in)

Steel Track with Rubber Pads

Angle Blade

BOOM, STICK AND LINKAGES

Long Stick (1695 mm/66.7 in)

Front Shovel Capable – Dual Lock Manual Coupler

Front Shovel Capable – Hydraulic Coupler

Attachments including Couplers, Thumbs, Buckets, Augers and Hammers

2nd Auxiliary Hydraulic Lines

Bucket Divert Lines

Boom Lowering Check Valve

Stick Lowering Check Valve

Hydraulic Quick Coupler Lines

ELECTRICAL

Product Link™ PL243 (regulations apply)

Product Link PLE643 (regulations apply)

GUARDING

Polycarbonate Half Height Front Guard (Canopy only)

Polycarbonate Front Guard (ISO 10262:1998 Level I and EN356 P5A)

Heavy Duty Front Guard ISO 10262:1998 Level II

Heavy Duty Top Guard 10262:1998 Level II (Cab only)

OTHER

Bio Oil Capable

Eco Drain

Water Jacket Heater

