

Product Specifications For 304



Weights

Operating Weight	4475 kg
Minimum Operating Weight with Canopy*	3925 kg
Maximum Operating Weight with Canopy**	4375 kg
Minimum Operating Weight with Cab*	4025 kg
Maximum Operating Weight with Cab**	4475 kg
Note (1)	*Minimum Weight is based on rubber tracks, operator, full fuel tank, standard stick, straight blade, no bucket and no extra counterweight.
Note (2)	**Maximum Weight is based on steel tracks, operator, full fuel tank, long stick, straight blade, extra counterweight and no bucket.

Dimensions - Long Stick

Dig Depth	3510 mm
Vertical Wall	2535 mm
Maximum Reach - Ground Level	5445 mm
Maximum Reach	5570 mm
Maximum Dig Height	5125 mm
Maximum Dump Clearance	3740 mm
Boom In Reach	2340 mm

Tail Swing without Counterweight	1205 mm
Tail Swing with Counterweight	1300 mm
Maximum Blade Height	420 mm
Maximum Blade Depth	475 mm
Boom Height - Shipping Position	1910 mm
O/A Shipping Height	2540 mm
Swing Bearing - Height	557 mm
O/A Undercarriage Length	2210 mm
Overall Shipping Length*	4950 mm
Boom Swing - Right	730 mm
Boom Swing - Left	530 mm
Track Belt/Shoe Width	350 mm
Track Width	1700 mm
Ground Clearance	305 mm
Stick Length	1695 mm
Note	*Overall Shipping Length depends on blade position during shipment.

Weight Increase From Minimum Configuration

Counterweight	225 kg
Long Stick	30 kg

Steel Tracks	195 kg
Angle Blade	110 kg

Dimensions - Standard Stick

Dig Depth	3210 mm
Vertical Wall	2395 mm
Maximum Reach - Ground Level	5200 mm
Maximum Reach	5330 mm
Maximum Dig Height	5040 mm
Maximum Dump Clearance	3645 mm
Boom In Reach	2255 mm
Tail Swing without Counterweight	1205 mm
Tail Swing with Counterweight	1300 mm
Maximum Blade Height	420 mm
Maximum Blade Depth	475 mm
Boom Height - Shipping Position	1620 mm
O/A Shipping Height	2540 mm
Swing Bearing - Height	557 mm
O/A Undercarriage Length	2210 mm
Overall Shipping Length*	4950 mm

Boom Swing - Right	730 mm
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Travel System

Travel Speed - High	5.2 km/h
Travel Speed - Low	3.5 km/h
Maximum Traction Force - High Speed	19 kN
Maximum Traction Force - Low Speed	32.6 kN
Ground Pressure - Minimum Weight	28.7 kPa
Ground Pressure - Maximum Weight	33.8 kPa
Gradeability - Maximum	30 degrees

Service Refill Capacities

Cooling System	11 l
Engine Oil	6 l
Fuel Tank	63 l

Hydraulic Tank	52 l
Hydraulic System	65 l

Hydraulic System

Type	Load Sensing Hydraulics with Variable Displacement Piston Pump
Pump Flow at 2,400 rpm	96 L/min
Operating Pressure - Equipment	245 bar
Operating Pressure - Travel	245 bar
Operating Pressure - Swing	180 bar
Auxiliary Circuit - Primary - Flow	65 L/min
Auxiliary Circuit - Primary - Pressure	245 bar
Auxiliary Circuit - Secondary - Flow	28 L/min
Auxiliary Circuit - Secondary - Pressure	245 bar
Digging Force - Stick - Standard	21 kN
Digging Force - Stick - Long	19.2 kN
Digging Force - Bucket	38.2 kN
Note	Flow and pressure are not combinable. Under load, as flow rises pressure goes down.

Swing System

Machine Swing Speed	9 r/min
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Boom Swing - Left	78 Degrees
Boom Swing - Right	50 Degrees

Blade

Straight Blade Width	1700 mm
Straight Blade Height	360 mm
Angle Blade Width	1700 mm
Angle Blade Height	360 mm
Angle Blade - Left	25 Degrees
Angle Blade - Right	25 Degrees

Certification - Cab And Canopy

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

Air Conditioning System

Air Conditioning	The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf (Europe) (Global Warming Potential = 1430). See label or instruction manual for gas refrigerant identification. The system contains 0.75 kg (1.65 lb), 0.90 kg (1.98 lb) or 1 kg (2.20 lb) of refrigerant which has a CO2 equivalent of 1.430 metric tonnes (1.576 tons) for R134a and 0.001 tonnes (0.001 tons) for R1234yf (Europe).
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Sound

Operator Sound Pressure (ISO 6396:2008)	76 dB(A)
Average Exterior Sound Pressure (ISO 6395:2008)	97 dB(A)
Note	European Union Directive “2000/14/EC”

Sustainability

Recyclability	96%
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Engine

Net Power	33.6 kW
Engine Model	C1.7 Turbo
Net Power - 2,400 rpm - ISO 9249, 80/1269/EEC	33.6 kW
Gross Power - ISO 14396	36.1 kW
Bore	84 mm
Stroke	100 mm
Displacement	1.662 l
Emissions	Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
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.

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)
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
Hydraulic Quick Coupler Lines

ELECTRICAL

12 Volt Battery
Software (machine and monitor)
Maintenance Free Battery
Lock Out/Tag Out Battery Disconnect
12 Volt Power Socket
Product Link™ Elite
Travel Alarm (optional in some regions)

GUARDING

ROPS – ISO 12117-2:2008
Top Guard ISO 10262:1998 Level I

OTHER

Eco Drain

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
Seat Belt Reminder System
LED Front and Rear Lights
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)
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 (Europe Standard)
Stick Lowering Check Valve (Europe Standard)

ELECTRICAL

Cat Grade Advanced 2D
Cat Grade 3D

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

Bio Oil Capable
Water Jacket Heater
Counterweight (225 kg/496 lb)