

Product Specifications For 301.8



Engine

Net Power	15.7 kW
Engine Model	C1.1
Net Power - 2,400 rpm - ISO 9249, 80/1269/EEC	15.7 kW
Gross Power - SAE J1995:2014	16.1 kW
Bore	77 mm
Stroke	81 mm
Displacement	1.1 l
Emissions	Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
Note	Net power is tested per ISO 9249:2007 and 80/1269/EEC.
Note (1)	Engine power is tested per ISO 14396:2002.
Note (2)	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.

Weights

Operating Weight	2029 kg
Minimum Operating Weight with Canopy*	1725 kg
Maximum Operating Weight with Canopy**	1905 kg

Minimum Operating Weight with Cab*	1848 kg
Maximum Operating Weight with Cab**	2029 kg
EU: CE Plate Weight with Canopy***	1880 kg
EU: CE Plate Weight with Cab***	2000 kg
Note (1)	*Minimum Weight is based on rubber tracks, operator, fixed undercarriage and full fuel tank.
Note (2)	**Maximum Weight is based on steel tracks, operator, expandable undercarriage and full fuel tank.
Note (3)	***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

Dig Depth	2570 mm
Vertical Wall	1940 mm
Maximum Reach - Ground Level	3960 mm
Maximum Reach	4030 mm
Maximum Dig Height	3620 mm
Maximum Dump Clearance	2640 mm
Boom In Reach	1420 mm
Tail Swing	995 mm
Maximum Blade Height	270 mm

Maximum Blade Depth	265 mm
Boom Height - Shipping Position	1020 mm
O/A Shipping Height	2300 mm
Swing Bearing - Height	442 mm
O/A Undercarriage Length	1590 mm
Overall Shipping Length*	3710 mm
Boom Swing - Right	50 °
Boom Swing - Left	65 °
Track Belt/Shoe Width	230 mm
Track Width - Retracted	990 mm
Track Width - Expanded	1300 mm
Minimum Ground Clearance Below Undercarriage	150 mm
Stick Length	1160 mm
Note	*Overall Shipping Length depends on blade position during shipment.

Weight Increase From Minimum Configuration

Long Stick	8 kg
Steel Tracks	50 kg
Expandable Undercarriage	123 kg

Travel System

Travel Speed - High	4.4 km/h
Travel Speed - Low	2.9 km/h
Maximum Traction Force - High Speed	11.9 kN
Maximum Traction Force - Low Speed	18.4 kN
Ground Pressure - Minimum Weight	26.8 kPa
Ground Pressure - Maximum Weight	29.6 kPa
Gradeability - Maximum	30 degrees

Service Refill Capacities

Cooling System	3.9 l
Engine Oil	4.4 l
Fuel Tank	26 l
Hydraulic Tank	18 l
Hydraulic System	26 l

Hydraulic System

Type	Load Sensing Hydraulics with Variable Displacement Piston Pump
Pump Flow at 2,400 rpm	66 L/min
Operating Pressure - Equipment	245 bar
Operating Pressure - Travel	245 bar
Operating Pressure - Swing	147 bar

Auxiliary Circuit - Primary - Flow	33 L/min
Auxiliary Circuit - Primary - Pressure	245 bar
Auxiliary Circuit - Secondary - Flow	14 L/min
Auxiliary Circuit - Secondary - Pressure	245 bar
Digging Force - Stick - Standard	11.3 kN
Digging Force - Stick - Long	9.8 kN
Digging Force - Bucket	19.6 kN

Swing System

Machine Swing Speed	9.8 r/min
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Blade

Width*	990 mm
Height	225 mm
Note	*Expanded – 1300 mm (51 in)

Certification - Cab And 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)

Dimensions - Standard Stick

Dig Depth	2370 mm
Vertical Wall	1850 mm

Maximum Reach - Ground Level	3800 mm
Maximum Reach	3870 mm
Maximum Dig Height	3550 mm
Maximum Dump Clearance	2560 mm
Boom In Reach	1420 mm
Tail Swing	995 mm
Maximum Blade Height	270 mm
Maximum Blade Depth	265 mm
Boom Height - Shipping Position	1070 mm
O/A Shipping Height	2300 mm
Swing Bearing - Height	442 mm
O/A Undercarriage Length	1590 mm
Overall Shipping Length*	3720 mm
Boom Swing - Right	50 °
Boom Swing - Left	65 °
Track Belt/Shoe Width	230 mm
Track Width - Retracted	990 mm
Track Width - Expanded	1300 mm
Minimum Ground Clearance Below Undercarriage	150 mm

Stick Length	960 mm
Note	*Overall Shipping Length depends on blade position during shipment.

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)	72 dB(A)
Average Exterior Sound Pressure (ISO 6395:2008)	99 dB(A)
Note	European Union Directive “2000/14/EC”

Sustainability

Recyclability	95%
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301.8 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 Line Quick Disconnects

One and Two Way Auxiliary Flow
Continuous Auxiliary Flow
Auxiliary Hydraulic Lines

OPERATOR ENVIRONMENT

Tilt-up Canopy or Tilt-Up Cab
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
Standard Key with Pass Code
Fabric Suspension Seat (Cab 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
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 (250 mm/10 in wide)
Dozer Blade
Dozer Blade Float
Hydraulic Track Adjusters
Tie Downs on Track Frame

BOOM, STICK AND LINKAGES

One Piece Boom (1850 mm/73 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
Lock Out/Tag Out Battery Disconnect
Signaling/Warning Horn
12 Volt Power Socket

GUARDING

ROPS – ISO 12117-2:2008
TOPS – ISO 12117:1997
Top Guard ISO 10262:1998

301.8 Optional Equipment

OPERATOR ENVIRONMENT

Cab with Air Conditioning
Cab with Heater
Control Pattern Changer (optional in some regions)
No Travel Pedals and Hand Levers
Push to Start with Key Fob/Pass Code
Vinyl Suspension Seat (Canopy only)
Seat Belt Reminder System
LED Front Lights
LED Front and Rear Lights
LED Boom Light
Mirrors Left and Right
Radio – Bluetooth®, Auxiliary, Microphone, USB (charging only) (Cab only)

UNDERCARRIAGE

Expandable Undercarriage
Steel Track (250 mm/10 in wide)

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

Product Link PL243 (regulations apply)

Product Link PLE643 (regulations apply)

Travel Alarm (standard in some regions)

GUARDING

Polycarbonate Half Height Front Guard (Canopy only)

Polycarbonate Front Guard (ISO 10262:1998 Level 1 and EN356 PSA)

OTHER

Bio Oil Capable

Eco Drain

Water Jacket Heater