

Product Specifications For 301.8



Engine

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

Weights

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

Maximum Operating Weight with Canopy**	1905 kg
Minimum Operating Weight with Cab*	1848 kg
Note (2)	**Maximum Weight is based on steel tracks, operator, expandable undercarriage and full fuel tank.
Note (1)	*Minimum Weight is based on rubber tracks, operator, fixed 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.
EU: CE Plate Weight with Cab***	2000 kg
EU: CE Plate Weight with Canopy***	1880 kg

Dimensions - Long Stick

Dig Depth	2570 mm
Stick Length	1160 mm
Vertical Wall	1940 mm
Maximum Reach - Ground Level	3960 mm
Track Width - Expanded	1300 mm
O/A Undercarriage Length	1590 mm
O/A Shipping Height	2300 mm
Maximum Blade Height	270 mm
Overall Shipping Length*	3710 mm

Tail Swing	995 mm
Track Width - Retracted	990 mm
Maximum Blade Depth	265 mm
Boom In Reach	1420 mm
Maximum Dump Clearance	2640 mm
Boom Swing - Right	50 °
Maximum Reach	4030 mm
Boom Swing - Left	65 °
Maximum Dig Height	3620 mm
Swing Bearing - Height	442 mm
Boom Height - Shipping Position	1020 mm
Minimum Ground Clearance Below Undercarriage	150 mm
Note	*Overall Shipping Length depends on blade position during shipment.
Track Belt/Shoe Width	230 mm

Blade

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

Travel System

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

Dimensions - Standard Stick

Boom In Reach	1420 mm
Maximum Reach - Ground Level	3800 mm
Maximum Blade Depth	265 mm
Stick Length	960 mm
Vertical Wall	1850 mm
Boom Height - Shipping Position	1070 mm
Track Width - Expanded	1300 mm
Overall Shipping Length*	3720 mm
Maximum Blade Height	270 mm
Boom Swing - Right	50 °
Note	*Overall Shipping Length depends on blade position during shipment.

Minimum Ground Clearance Below Undercarriage	150 mm
Maximum Reach	3870 mm
Swing Bearing - Height	442 mm
Maximum Dig Height	3550 mm
Track Belt/Shoe Width	230 mm
Tail Swing	995 mm
Boom Swing - Left	65 °
Track Width - Retracted	990 mm
O/A Undercarriage Length	1590 mm
Maximum Dump Clearance	2560 mm
O/A Shipping Height	2300 mm
Dig Depth	2370 mm

Hydraulic System

Operating Pressure - Equipment	245 bar
Auxiliary Circuit - Secondary - Flow	14 l/min
Digging Force - Bucket	19.6 kN
Operating Pressure - Travel	245 bar
Digging Force - Stick - Long	9.8 kN
Auxiliary Circuit - Secondary - Pressure	245 bar

Operating Pressure - Swing	147 bar
Auxiliary Circuit - Primary - Flow	33 l/min
Pump Flow at 2,400 rpm	66 l/min
Type	Load Sensing Hydraulics with Variable Displacement Piston Pump
Digging Force - Stick - Standard	11.3 kN
Auxiliary Circuit - Primary - Pressure	245 bar

Certification - Cab And Canopy

Tip Over Protective Structure (TOPS)	ISO 12117:1997
Roll Over Protective Structure (ROPS)	ISO 12117-2:2008
Top Guard	ISO 10262:1998 (Level I)

Service Refill Capacities

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

Sound

Operator Sound Pressure (ISO 6396:2008)	73 dB(A)
Average Exterior Sound Pressure (ISO 6395:2008)	93 dB(A)

Weight Increase From Minimum Configuration

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

Swing System

Machine Swing Speed	9.8 r/min
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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 Hydraulic Lines
One and Two Way Auxiliary Flow
Continuous Auxiliary Flow
Auxiliary Line Quick Disconnects

GUARDING

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

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
Vinyl Non-Suspension Seat
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
Seat Belt Reminder System

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

Signaling/Warning Horn

12 Volt Power Socket

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)

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

Steel Track (250 mm/10 in wide)

Expandable Undercarriage

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

Lock Out/Tag Out Battery Disconnect

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