

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)
Note	European Union Directive "2000/14/EC"

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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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

OPERATOR ENVIRONMENT

Tilt-up Canopy or Tilt-Up Cab

Top Guard ISO 10262:1998 Level I

ROPS – ISO 12117-2:2008

TOPS – ISO 12117:1997

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

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

UNDERCARRIAGE

Expandable 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

Machine Security – 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)

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

Battery Disconnect

Product Link PL243 (regulations apply)

Product Link PLE643 (regulations apply)

Travel Alarm (standard in some regions)

GUARDING

Guard, Canopy

Guard, Mesh

OTHER

Bio Oil Capable

Eco Drain

Water Jacket Heater