

Product Specifications For 301.7 CR



Engine

Net Power	15.7 kW
Engine Model	C1.1
Emissions	Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
Bore	77 mm
Stroke	81 mm
Displacement	1.1 l
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.
Note (1)	Advertised power is tested per the specified standard in effect at the time of manufacture.
Engine Power	16.1 kW

Weights

Operating Weight	1915 kg
Minimum Operating Weight with Canopy*	1790 kg
Maximum Operating Weight with Canopy**	1915 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, 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.

EU: CE Plate Weight***

1890 kg

Dimensions - Long Stick

Dig Depth	2540 mm
Tail Swing	650 mm
O/A Shipping Height	2300 mm
Maximum Blade Height	270 mm
Minimum Ground Clearance Below Undercarriage	140 mm
O/A Undercarriage Length	1590 mm
Boom Height - Shipping Position	1040 mm
Maximum Dump Clearance	2510 mm
Track Belt/Shoe Width	230 mm
Maximum Dig Height	3490 mm
Track Width - Expanded	1300 mm
Maximum Reach - Ground Level	4060 mm
Swing Bearing - Height	442 mm
Boom Swing - Left	65 °
Stick Length	1160 mm
Vertical Wall	1890 mm

Track Width - Retracted 990 mm

Boom Swing - Right 50 °

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

Maximum Reach 4130 mm

Boom In Reach 1620 mm

Overall Shipping Length* 3590 mm

Maximum Blade Depth 265 mm

Blade

Height 225 mm

Note *Expanded – 1300 mm (51 in)

Width* 990 mm

Hydraulic System

Operating Pressure - Equipment 245 bar

Operating Pressure - Swing 147 bar

Digging Force - Stick - Standard 9.5 kN

Pump Flow at 2,400 rpm 66 L/min

Auxiliary Circuit - Primary - Pressure 245 bar

Digging Force - Bucket 16.2 kN

Auxiliary Circuit - Secondary - Pressure 245 bar

Operating Pressure - Travel	245 bar
Type	Load Sensing Hydraulics with Variable Displacement Piston Pump
Auxiliary Circuit - Secondary - Flow	14 L/min
Auxiliary Circuit - Primary - Flow	33 L/min
Digging Force - Stick - Long	8.3 kN

Dimensions - Standard Stick

Track Belt/Shoe Width	230 mm
Overall Shipping Length*	3620 mm
Track Width - Expanded	1300 mm
O/A Undercarriage Length	1590 mm
Maximum Reach - Ground Level	3900 mm
Boom Height - Shipping Position	1090 mm
Boom Swing - Left	65 °
Maximum Reach	3970 mm
Maximum Blade Depth	265 mm
Dig Depth	2350 mm
Maximum Dump Clearance	2450 mm
Maximum Blade Height	270 mm
Tail Swing	650 mm

Boom In Reach	1630 mm
Minimum Ground Clearance Below Undercarriage	140 mm
O/A Shipping Height	2300 mm
Swing Bearing - Height	442 mm
Stick Length	960 mm
Vertical Wall	1800 mm
Boom Swing - Right	50 °
Track Width - Retracted	990 mm
Maximum Dig Height	3430 mm
Note	*Overall Shipping Length depends on blade position during shipment.

Travel System

Maximum Traction Force - High Speed	11.9 kN
Travel Speed - High	4.4 km/h
Ground Pressure - Maximum Weight	30 kPa
Travel Speed - Low	2.9 km/h
Maximum Traction Force - Low Speed	18.4 kN
Gradeability - Maximum	30 degrees
Ground Pressure - Minimum Weight	27.9 kPa

Service Refill Capacities

Engine Oil	4.4 l
------------	-------

Hydraulic Tank	18 l
----------------	------

Fuel Tank	22 l
-----------	------

Cooling System	3.9 l
----------------	-------

Hydraulic System	26 l
------------------	------

Sound

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	10 kg
------------	-------

Expandable Undercarriage	Standard
--------------------------	----------

Heavy Counterweight	67 kg
---------------------	-------

Swing System

Machine Swing Speed	9.8 r/min
---------------------	-----------

Certification - Canopy

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

Top Guard	ISO 10262:1998 (Level I)
-----------	--------------------------

Tip Over Protective Structure (TOPS)	ISO 12117:1997
--------------------------------------	----------------

Sustainability

301.7 CR 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
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
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
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 (230 mm/9 in wide)
Dozer Blade
Dozer Blade Float
Hydraulic Track Adjusters
Tie Downs on Track Frame

BOOM, STICK AND LINKAGES

One Piece Boom (1780 mm/70 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

301.7 CR Optional Equipment

OPERATOR ENVIRONMENT

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
LED Front Lights
LED Front and Rear Lights
LED Boom Light
Mirrors Left and Right
Seat Belt Reminder System

UNDERCARRIAGE

Steel Track (230 mm/9 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

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

Polycarbonate Half Height Front Guard (Canopy only)

OTHER

Bio Oil Capable

Eco Drain

Water Jacket Heater

Heavy Counterweight