

Product Specifications For 301.7 CR



Engine

Net Power	21 HP
Engine Model	C1.1
Emissions	Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
Bore	3 in
Stroke	3.2 in
Displacement	69 in ³
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	21.6 HP

Weights

Operating Weight	4222 lb
Minimum Operating Weight with Canopy*	3946 lb
Maximum Operating Weight with Canopy**	4222 lb
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***

4167 lb

Dimensions - Long Stick

Dig Depth

100 in

Tail Swing

25.6 in

O/A Shipping Height

90.6 in

Maximum Blade Height

10.6 in

**Minimum Ground Clearance Below
Undercarriage**

5.5 in

O/A Undercarriage Length

62.6 in

Boom Height - Shipping Position

40.9 in

Maximum Dump Clearance

98.8 in

Track Belt/Shoe Width

9.1 in

Maximum Dig Height

137.4 in

Track Width - Expanded

51.18 in

Maximum Reach - Ground Level

159.8 in

Swing Bearing - Height

17.4 in

Boom Swing - Left

65 °

Stick Length

45.7 in

Vertical Wall

74.4 in

Track Width - Retracted	39 in
Boom Swing - Right	50 °
Note	*Overall Shipping Length depends on blade position during shipment.
Maximum Reach	162.6 in
Boom In Reach	63.8 in
Overall Shipping Length*	141.3 in
Maximum Blade Depth	10.4 in

Blade

Height	8.9 in
Note	*Expanded – 1300 mm (51 in)
Width*	39 in

Hydraulic System

Operating Pressure - Equipment	3553.4 psi
Operating Pressure - Swing	2132.1 psi
Digging Force - Stick - Standard	2135.7 lbf
Pump Flow at 2,400 rpm	17.4 gal/min
Auxiliary Circuit - Primary - Pressure	3553.4 psi
Digging Force - Bucket	3641.9 lbf
Auxiliary Circuit - Secondary - Pressure	3553.4 psi

Operating Pressure - Travel	3553.4 psi
Type	Load Sensing Hydraulics with Variable Displacement Piston Pump
Auxiliary Circuit - Secondary - Flow	3.7 gal/min
Auxiliary Circuit - Primary - Flow	8.7 gal/min
Digging Force - Stick - Long	1865.9 lbf

Dimensions - Standard Stick

Track Belt/Shoe Width	9.1 in
Overall Shipping Length*	142.5 in
Track Width - Expanded	51.18 in
O/A Undercarriage Length	62.6 in
Maximum Reach - Ground Level	153.5 in
Boom Height - Shipping Position	42.9 in
Boom Swing - Left	65 °
Maximum Reach	156.3 in
Maximum Blade Depth	10.4 in
Dig Depth	92.5 in
Maximum Dump Clearance	96.5 in
Maximum Blade Height	10.6 in
Tail Swing	25.6 in

Boom In Reach	64.2 in
Minimum Ground Clearance Below Undercarriage	5.5 in
O/A Shipping Height	90.6 in
Swing Bearing - Height	17.4 in
Stick Length	37.8 in
Vertical Wall	70.9 in
Boom Swing - Right	50 °
Track Width - Retracted	39 in
Maximum Dig Height	135 in
Note	*Overall Shipping Length depends on blade position during shipment.

Travel System

Maximum Traction Force - High Speed	2675.2 lbf
Travel Speed - High	2.7 mile/h
Ground Pressure - Maximum Weight	4.4 psi
Travel Speed - Low	1.8 mile/h
Maximum Traction Force - Low Speed	4136.5 lbf
Gradeability - Maximum	30 degrees
Ground Pressure - Minimum Weight	4 psi

Service Refill Capacities

Engine Oil	1.2 gal (US)
Hydraulic Tank	4.8 gal (US)
Fuel Tank	5.8 gal (US)
Cooling System	1 gal (US)
Hydraulic System	6.9 gal (US)

Sound

Average Exterior Sound Pressure (ISO 6395:2008)	93 dB(A)
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Note	European Union Directive “2000/14/EC”
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Weight Increase From Minimum Configuration

Steel Tracks	110 lb
Long Stick	22 lb
Expandable Undercarriage	Standard
Heavy Counterweight	148 lb

Swing System

Machine Swing Speed	9.8 r/min
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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