

Product Specifications For 302 CR



Engine

Net Power	21 hp
Engine Model	C1.1
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.
Bore	3 in
Stroke	3.2 in
Emissions	Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
Displacement	69 in ³
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	21 hp
Gross Power - SAE J1995:2014	21.6 hp
Weights	
Operating Weight	4987 lb
Maximum Operating Weight with Cab**	4987 lb
Minimum Operating Weight with Canopy*	4229 lb

Note (2)	**Maximum Weight is based on steel tracks, operator, expandable undercarriage and full fuel tank.
Maximum Operating Weight with Canopy**	4588 lb
Minimum Operating Weight with Cab*	4535 lb
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***	4718 lb
EU: CE Plate Weight with Canopy***	4508 lb
Dimensions - Long Stick	
Dig Depth	101.2 in
Track Belt/Shoe Width	9.8 in
Tail Swing	29.5 in
Maximum Dump Clearance	103.9 in
Vertical Wall	76.4 in
Boom In Reach	65.4 in
O/A Shipping Height	90.6 in
Maximum Blade Depth	11.6 in
Track Width - Retracted	42.9 in

Stick Length	45.7 in
Boom Height - Shipping Position	40.2 in
Maximum Reach	168.1 in
Swing Bearing - Height	17.4 in
Boom Swing - Right	50 °
Track Width - Expanded	55.12 in
Boom Swing - Left	65 °
Maximum Dig Height	142.5 in
O/A Undercarriage Length	72.8 in
Maximum Blade Height	11.2 in
Maximum Reach - Ground Level	165.7 in
Overall Shipping Length*	152.8 in
Minimum Ground Clearance Below Undercarriage	5.9 in

Note

*Overall Shipping Length depends on blade position during shipment.

Blade

Height	8.9 in
Width*	42.9 in
Note	*Expanded – 1400 mm (55 in)

Dimensions - Standard Stick

Dig Depth	93.3 in
Maximum Dig Height	139.8 in
Track Belt/Shoe Width	9.8 in
Tail Swing	29.5 in
Boom Height - Shipping Position	42.1 in
O/A Shipping Height	90.6 in
Overall Shipping Length*	153.5 in
Maximum Blade Height	11.2 in
Maximum Reach	161.8 in
Track Width - Expanded	55.12 in
Track Width - Retracted	42.9 in
Boom Swing - Right	50 °
O/A Undercarriage Length	72.8 in
Maximum Reach - Ground Level	159.1 in
Swing Bearing - Height	17.4 in
Stick Length	37.8 in
Boom Swing - Left	65 °
Boom In Reach	65.4 in
Maximum Dump Clearance	100.8 in

Minimum Ground Clearance Below Undercarriage 5.9 in

Maximum Blade Depth 11.6 in

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

Vertical Wall 72.8 in

Weight Increase From Minimum Configuration

Steel Tracks 132 lb

Long Stick 18 lb

Expandable Undercarriage 212 lb

Certification - Cab And Canopy

Top Guard ISO 10262:1998 (Level I)

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

Tip Over Protective Structure (TOPS) ISO 12117:1997

Hydraulic System

Pump Flow at 2,400 rpm 17.4 gal/min

Digging Force - Stick - Standard 2540.3 lbf

Auxiliary Circuit - Primary - Flow 8.7 gal/min

Digging Force - Bucket 4406.3 lbf

Auxiliary Circuit - Secondary - Pressure 3553.4 psi

Operating Pressure - Travel 3553.4 psi

Operating Pressure - Equipment	3553.4 psi
Operating Pressure - Swing	2132.1 psi
Digging Force - Stick - Long	2203.1 lbf
Type	Load Sensing Hydraulics with Variable Displacement Piston Pump
Auxiliary Circuit - Primary - Pressure	3553.4 psi
Auxiliary Circuit - Secondary - Flow	3.7 gal/min

Swing System

Machine Swing Speed	9.8 r/min
Sound	
Average Exterior Sound Pressure (ISO 6395:2008)	93 dB(A)
Note	European Union Directive "2000/14/EC"
Operator Sound Pressure (ISO 6396:2008)	73 dB(A)

Service Refill Capacities

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

Travel System

Travel Speed - High	2.7 mile/h
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Travel Speed - Low	1.8 mile/h
Maximum Traction Force - Low Speed	4496.2 lbf
Maximum Traction Force - High Speed	2967.5 lbf
Gradeability - Maximum	30 degrees
Ground Pressure - Maximum Weight	3.9 psi
Ground Pressure - Minimum Weight	3.4 psi

Sustainability

Recyclability	95%
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302 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 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
Fabric Suspension Seat (Cab only)
Vinyl Suspension Seat (Canopy 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

302 CR 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 Non-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