

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

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
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Maximum Blade Depth	11.6 in
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Note	*Overall Shipping Length depends on blade position during shipment.
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Vertical Wall	72.8 in
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WEIGHT INCREASE FROM MINIMUM CONFIGURATION

Steel Tracks	132 lb
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Long Stick	18 lb
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Expandable Undercarriage	212 lb
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CERTIFICATION - CAB AND CANOPY

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

Pump Flow at 2,400 rpm	17.4 gal/min
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Digging Force - Stick - Standard	2540.3 lbf
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Auxiliary Circuit - Primary - Flow	8.7 gal/min
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Digging Force - Bucket	4406.3 lbf
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Auxiliary Circuit - Secondary - Pressure	3553.4 psi
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Operating Pressure - Travel	3553.4 psi
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Operating Pressure - Equipment	3553.4 psi
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Operating Pressure - Swing	2132.1 psi
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Digging Force - Stick - Long	2203.1 lbf
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Type	Load Sensing Hydraulics with Variable Displacement Piston Pump
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Auxiliary Circuit - Primary - Pressure	3553.4 psi
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Auxiliary Circuit - Secondary - Flow	3.7 gal/min
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SWING SYSTEM

Machine Swing Speed	9.8 r/min
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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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Operator Sound Pressure (ISO 6396:2008)	73 dB(A)
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SERVICE REFILL CAPACITIES

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

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