

Product Specifications For 302.7 CR



Engine

Net Power	23.6 hp
Engine Model	C1.1 Turbo
Net Power - 2,400 rpm - ISO 9249, 80/1269/EEC	23.6 hp
Gross Power - ISO 14396	24.7 hp
Bore	3 in
Stroke	3.2 in
Displacement	69 in ³
Emissions	Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
Note (1)	Advertised power is tested per the specified standard in effect at the time to manufacturer.
Note (2)	Net power advertised is the power available at the flywheel when the engine is at the rated speed of 2,400 rpm and the engine is installed with the factory configured fan, air intake system, exhaust system and alternator with a minimum alternator load.

Weights

Operating Weight	6725 lb
Minimum Operating Weight with Canopy*	5645 lb
Maximum Operating Weight with Canopy**	6450 lb

Minimum Operating Weight with Cab*	5909 lb
Maximum Operating Weight with Cab**	6725 lb
EU: CE Plate Weight with Canopy***	5942 lb
EU: CE Plate Weight with Cab***	6174 lb
Note (1)	*Minimum Weight is based on rubber tracks, operator, full fuel tank, standard stick, blade, no bucket and no extra counterweight.
Note (2)	**Maximum Weight is based on steel tracks, operator, full fuel tank, long stick, blade, no bucket and extra counterweight.
Note (3)	***CE Plate Weight is based on the most common EU configuration. Includes 75 kg (165 lb) operator, (100 kg/221 lb) counterweight, full fuel tank and excludes bucket.

Dimensions - Long Stick

Dig Depth	106.7 in
Vertical Wall	80.7 in
Maximum Reach - Ground Level	185.4 in
Maximum Reach	190.9 in
Maximum Dig Height	172.8 in
Maximum Dump Clearance	120.9 in
Boom In Reach	68.1 in
Tail Swing without Counterweight	30.5 in

Tail Swing - with Light Counterweight	33.3 in
Tail Swing - with Extra Counterweight	35 in
Maximum Blade Height	15.6 in
Maximum Blade Depth	20.3 in
Boom Height - Shipping Position	65 in
O/A Shipping Height	97.6 in
Swing Bearing - Height	22 in
O/A Undercarriage Length	79.1 in
Overall Shipping Length*	168.5 in
Boom Swing - Right	32.7 in
Boom Swing - Left	23.8 in
Track Belt/Shoe Width	11.8 in
Track Width	61.8 in
Ground Clearance	12.2 in
Stick Length	49.6 in
Note	*Overall Shipping Length depends on blade position during shipment.

Travel System

Travel Speed - High	2.8 mile/h
----------------------------	------------

Travel Speed - Low	1.6 mile/h
Maximum Traction Force - High Speed	3507 lbf
Maximum Traction Force - Low Speed	6025 lbf
Ground Pressure - Minimum Weight	3.5 psi
Ground Pressure - Maximum Weight	4.2 psi
Gradeability - Maximum	30 degrees

Service Refill Capacities

Cooling System	1.1 gal (US)
Engine Oil	1.1 gal (US)
Fuel Tank	11.9 gal (US)
Hydraulic Tank	4.8 gal (US)
Hydraulic System	9.2 gal (US)

Hydraulic System

Type	Load Sensing Hydraulics with Variable Displacement Piston Pump
Pump Flow at 2,400 rpm	26 gpm
Operating Pressure - Equipment	3553 psi
Operating Pressure - Travel	3553 psi
Operating Pressure - Swing	2553 psi
Auxiliary Circuit - Primary - Flow	17 gpm

Auxiliary Circuit - Primary - Pressure	3553 psi
--	----------

Auxiliary Circuit - Secondary - Flow	7 gpm
--------------------------------------	-------

Auxiliary Circuit - Secondary - Pressure	3553 psi
--	----------

Digging Force - Stick - Standard	3102 lbf
----------------------------------	----------

Digging Force - Stick - Long	2765 lbf
------------------------------	----------

Digging Force - Bucket	5238 lbf
------------------------	----------

Note	Flow and pressure are not combinable. Under load, as flow rises pressure goes down.
------	---

Swing System

Machine Swing Speed	9 r/min
---------------------	---------

Boom Swing - Left	75 Degrees
-------------------	------------

Boom Swing - Right	50 Degrees
--------------------	------------

Blade

Width	61.8 in
-------	---------

Height	12.6 in
--------	---------

Certification - Cab And Canopy

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

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

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

Dimensions - Standard Stick

Dig Depth	98.8 in
Vertical Wall	73.6 in
Maximum Reach - Ground Level	177.6 in
Maximum Reach	183.5 in
Maximum Dig Height	168.1 in
Maximum Dump Clearance	116.1 in
Boom In Reach	67.3 in
Tail Swing without Counterweight	30.5 in
Tail Swing - with Light Counterweight	33.3 in
Tail Swing with Extra Counterweight	35 in
Maximum Blade Height	15.6 in
Maximum Blade Depth	20.3 in
Boom Height - Shipping Position	61.4 in
O/A Shipping Height	97.6 in
Swing Bearing - Height	22 in
O/A Undercarriage Length	79.1 in
Overall Shipping Length*	166.9 in
Boom Swing - Right	32.7 in

Boom Swing - Left	23.8 in
Track Belt/Shoe Width	11.8 in
Ground Clearance	12.2 in
Stick Length	41.7 in
Note	*Overall Shipping Length depends on blade position during shipment.

Sound

Operator Sound Pressure (ISO 6396:2008)	78 dB(A)
Average Exterior Sound Pressure (ISO 6395:2008)	94 dB(A)
Note	European Union Directive “2000/14/EC”

Air Conditioning System

Air Conditioning	The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf (Europe) (Global Warming Potential = 1430). See label or instruction manual for gas refrigerant identification. The system contains 0.75 kg (1.65 lb), 0.90 kg (1.98 lb) or 1 kg (2.20 lb) of refrigerant which has a CO2 equivalent of 1.430 metric tonnes (1.576 tons) for R134a and 0.001 tonnes (0.001 tons) for R1234yf (Europe).
-------------------------	---

Sustainability

Recyclability	95%
----------------------	-----

Weight Increase From Minimum Configuration

Cab	276 lb
Counterweight (light)	221 lb
Counterweight (extra)	551 lb
Long Stick	33 lb

302.7 CR Standard Equipment

ENGINE

Cat® C1.1 Turbo Engine (U.S. EPA Tier 4 Final/EU Stage V)
Automatic Engine Idle
Automatic Engine Shutdown
Automatic Two Speed Travel
Fuel Water Separator
Load Sensing/Flow Sharing Hydraulics
Power on Demand (not available in all regions)
Variable Displacement Piston Pump

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
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
Standard Key with Pass Code
Fabric Suspension Seat (Cab only)
Vinyl Suspension Seat (Canopy only) (not available in all regions)
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 (not available in all regions)
Utility Space for Mobile Phone
Cab Mirrors Left and Right (vary by region)
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
– Jog Dial (Cab only)

UNDERCARRIAGE

Rubber Belt (300 mm/11.8 in wide)
Dozer Blade
Dozer Blade Float
Tie Downs on Track Frame

BOOM, STICK AND LINKAGES

One Piece Boom (2085 mm/82.1 in)
Standard Stick (1060 mm/41.7 in)
Front Shovel Capable
Front Shovel Capable – Pin-On
Thumb Ready (not available in all regions)
Certified Lifting Eye (optional in some regions)
Boom Lowering Control Valve (Standard in Europe)
Stick Lowering Control Valve (Standard in Europe)

ELECTRICAL

12 Volt Battery
Software (machine and monitor)
Maintenance Free Battery
Lock Out/Tag Out Battery Disconnect
Signaling/Warning Horn
12 Volt Power Socket

302.7 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 (optional in some regions)
Push to Start with Key Fob/Pass Code

Vinyl Non-Suspension Seat (Canopy only) (not available in all regions)
Seat Belt Reminder System
LED Front Lights
LED Front and Rear Lights
LED Boom Light
Mirrors Left and Right
Radio – Bluetooth®, Auxiliary, Microphone, USB (charging only) (Cab only)
Next Generation Advanced Monitor
– Touchscreen
– Site Reference System
– High Definition Camera Capable (IP68 and IP69K)
– Numeric Security Code

UNDERCARRIAGE

Expandable Undercarriage
Steel Track (300 mm/11.8 in wide)

BOOM, STICK AND LINKAGES

Long Stick (1260 mm/49.6 in)
Front Shovel Capable – Dual Lock Manual Coupler
Attachments including Couplers, Thumbs, Buckets, Augers and Hammers
2nd Auxiliary Hydraulic Lines
Bucket Divert Lines
Boom Lowering Control Valve (Standard in Europe)
Stick Lowering Control Valve (Standard in Europe)
Hydraulic Quick Coupler Lines (not available in all regions)

ELECTRICAL

Product Link PL243 (regulations apply)
Product Link PLE643 (regulations apply)
Travel Alarm (standard in some regions)

GUARDING

Polycarbonate Half Height Front Guard (Canopy only)
Polycarbonate Front Guard (ISO 10262 1998 Level I and EN356 P5A)

OTHER

Bio Oil Capable
Eco Drain
Water Jacket Heater
Light Counterweight (100 kg/221 lb)
Extra Counterweight (250 kg/551 lb)