

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
Bore	3 in
Displacement	69 in ³
Emissions	Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
Stroke	3.2 in
Gross Power - 2,400 rpm - SAE J1995:2014	24.7 hp

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
EU: CE Plate Weight with Canopy***	5942 lb
EU: CE Plate Weight with Cab***	6174 lb

Note (2)**Maximum Weight is based on steel tracks, operator, full fuel tank, long stick, blade, bucket and extra counterweight.

Note (1)*Minimum Weight is based on rubber tracks, operator, full fuel tank, standard stick, blade, bucket and no extra counterweight.

Maximum Operating Weight with Cab**6725 lb

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.

Dimensions - Long Stick

Dig Depth106.7 in

Boom Height - Shipping Position65 in

Boom Swing - Right32.7 in

Maximum Reach - Ground Level185.4 in

Maximum Blade Height15.6 in

Maximum Reach190.9 in

Boom Swing - Left23.8 in

Maximum Blade Depth20.3 in

O/A Shipping Height97.6 in

Maximum Dig Height172.8 in

Stick Length49.6 in

Tail Swing without Counterweight30.5 in

Boom In Reach68.1 in

Maximum Dump Clearance	120.9 in
Swing Bearing - Height	22 in
Vertical Wall	80.7 in
O/A Undercarriage Length	79.1 in
Ground Clearance	12.2 in
Track Belt/Shoe Width	11.8 in
Overall Shipping Length*	168.5 in
Note	*Overall Shipping Length depends on blade position during shipment.
Tail Swing - with Extra Counterweight	35 in
Track Width	61.8 in
Tail Swing - with Light Counterweight	33.3 in

Blade

Height	12.6 in
Width	61.8 in

Weight Increase From Minimum Configuration

Long Stick	33 lb
Steel Tracks	221 lb
Cab	276 lb

Counterweight (extra)	551 lb
Counterweight (light)	221 lb

Travel System

Ground Pressure - Maximum Weight	4.2 psi
Ground Pressure - Minimum Weight	3.5 psi
Travel Speed - Low	1.6 mile/h
Gradeability - Maximum	30 degrees
Maximum Traction Force - High Speed	3507 lbf
Travel Speed - High	2.8 mile/h
Maximum Traction Force - Low Speed	6025 lbf

Service Refill Capacities

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

Hydraulic System

Digging Force - Stick - Standard	3102 lbf
Auxiliary Circuit - Primary - Pressure	3553 psi

Operating Pressure - Swing	2553 psi
Auxiliary Circuit - Secondary - Flow	7 gpm
Auxiliary Circuit - Primary - Flow	17 gpm
Auxiliary Circuit - Secondary - Pressure	3553 psi
Operating Pressure - Equipment	3553 psi
Digging Force - Stick - Long	2765 lbf
Digging Force - Bucket	5238 lbf
Operating Pressure - Travel	3553 psi
Pump Flow at 2,400 rpm	26 gpm
Type	Load Sensing Hydraulics with Variable Displacement Piston Pump
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

Certification - Cab And Canopy

Top Guard	ISO 10262:1998 (Level I)
Tip Over Protective Structure (TOPS)	ISO 12117:1997

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”

Dimensions - Standard Stick

Overall Shipping Length*	166.9 in
Boom In Reach	67.3 in
O/A Shipping Height	97.6 in
Swing Bearing - Height	22 in
Stick Length	41.7 in
Maximum Reach	183.5 in
Maximum Dump Clearance	116.1 in
Maximum Dig Height	168.1 in
Tail Swing without Counterweight	30.5 in
Tail Swing with Extra Counterweight	35 in
Boom Swing - Right	32.7 in
O/A Undercarriage Length	79.1 in
Vertical Wall	73.6 in

Note	*Overall Shipping Length depends on blade position during shipment.
Maximum Reach - Ground Level	177.6 in
Dig Depth	98.8 in
Track Belt/Shoe Width	11.8 in
Maximum Blade Height	15.6 in
Maximum Blade Depth	20.3 in
Boom Swing - Left	23.8 in
Ground Clearance	12.2 in
Boom Height - Shipping Position	61.4 in
Tail Swing - with Light Counterweight	33.3 in

Sustainability

Recyclability	95%
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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
- 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
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)
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
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)

ELECTRICAL

12 Volt Battery

Software (machine and monitor)

Maintenance Free Battery

Battery Disconnect

Signaling/Warning Horn

12 Volt Power Socket

302.7 CR Optional Equipment

OPERATOR ENVIRONMENT

Cab with Air Conditioning

Cab with Heater

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)

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

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 Check Valve
Stick Lowering Check Valve
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)