

Product Specifications For 302.7 CR



Engine

Net Power	17.6 kW
Engine Model	C1.1 Turbo
Net Power - 2,400 rpm - ISO 9249, 80/1269/EEC	17.6 kW
Bore	77 mm
Displacement	1.1 l
Emissions	Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
Stroke	81 mm
Gross Power - 2,400 rpm - SAE J1995:2014	18.4 kW

Weights

Operating Weight	3050 kg
Minimum Operating Weight with Canopy*	2560 kg
Maximum Operating Weight with Canopy**	2925 kg
Minimum Operating Weight with Cab*	2680 kg
EU: CE Plate Weight with Canopy***	2695 kg
EU: CE Plate Weight with Cab***	2800 kg

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** 3050 kg

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.

Weight Increase From Minimum Configuration

Long Stick 15 kg

Steel Tracks 100 kg

Cab 125 kg

Counterweight (extra) 250 kg

Counterweight (light) 100 kg

Travel System

Ground Pressure - Maximum Weight 29 kPa

Ground Pressure - Minimum Weight 24.2 kPa

Travel Speed - Low 2.6 km/h

Gradeability - Maximum 30 degrees

Maximum Traction Force - High Speed 15.6 kN

Travel Speed - High 4.5 km/h

Maximum Traction Force - Low Speed 26.8 kN

Service Refill Capacities

Hydraulic System	35 l
Hydraulic Tank	18 l
Fuel Tank	45 l
Engine Oil	4 l
Cooling System	4 l

Hydraulic System

Digging Force - Stick - Standard	13.8 kN
Auxiliary Circuit - Primary - Pressure	245 bar
Operating Pressure - Swing	176 bar
Auxiliary Circuit - Secondary - Flow	25 l/min
Auxiliary Circuit - Primary - Flow	65 l/min
Auxiliary Circuit - Secondary - Pressure	245 bar
Operating Pressure - Equipment	245 bar
Digging Force - Stick - Long	12.3 kN
Digging Force - Bucket	23.3 kN
Operating Pressure - Travel	245 bar
Pump Flow at 2,400 rpm	100 l/min

Type	Load Sensing Hydraulics with Variable Displacement Piston Pump
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Note	Flow and pressure are not combinable. Under load, as flow rises pressure goes down.
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Swing System

Machine Swing Speed	9 r/min
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Boom Swing - Left	75 Degrees
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Boom Swing - Right	50 Degrees
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Blade

Height	320 mm
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Width	1570 mm
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Certification - Cab And Canopy

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

Operator Sound Pressure (ISO 6396:2008)	78 dB(A)
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Average Exterior Sound Pressure (ISO 6395:2008)	94 dB(A)
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Note	European Union Directive "2000/14/EC"
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Dimensions - Standard Stick

Overall Shipping Length*	4240 mm
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Boom In Reach	1710 mm
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O/A Shipping Height	2480 mm
Swing Bearing - Height	560 mm
Stick Length	1060 mm
Maximum Reach	4660 mm
Maximum Dump Clearance	2950 mm
Maximum Dig Height	4270 mm
Tail Swing without Counterweight	775 mm
Tail Swing with Extra Counterweight	890 mm
Boom Swing - Right	830 mm
O/A Undercarriage Length	2010 mm
Vertical Wall	1870 mm
Note	*Overall Shipping Length depends on blade position during shipment.
Maximum Reach - Ground Level	4510 mm
Dig Depth	2510 mm
Track Belt/Shoe Width	300 mm
Maximum Blade Height	395 mm
Maximum Blade Depth	515 mm
Boom Swing - Left	605 mm

Ground Clearance	310 mm
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Boom Height - Shipping Position	1560 mm
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Tail Swing - with Light Counterweight	845 mm
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Dimensions - Long Stick

Dig Depth	2710 mm
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Boom Height - Shipping Position	1650 mm
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Boom Swing - Right	830 mm
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Maximum Reach - Ground Level	4710 mm
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Maximum Blade Height	395 mm
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Maximum Reach	4850 mm
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Boom Swing - Left	605 mm
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Maximum Blade Depth	515 mm
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O/A Shipping Height	2480 mm
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Maximum Dig Height	4390 mm
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Stick Length	1260 mm
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Tail Swing without Counterweight	775 mm
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Boom In Reach	1730 mm
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Maximum Dump Clearance	3070 mm
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Swing Bearing - Height	560 mm
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Vertical Wall	2050 mm
O/A Undercarriage Length	2010 mm
Ground Clearance	310 mm
Track Belt/Shoe Width	300 mm
Overall Shipping Length*	4280 mm
Note	*Overall Shipping Length depends on blade position during shipment.
Tail Swing - with Extra Counterweight	890 mm
Track Width	1570 mm
Tail Swing - with Light Counterweight	845 mm

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)