

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
Gross Power - ISO 14396	18.4 kW
Bore	77 mm
Stroke	81 mm
Displacement	1.1 l
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	3050 kg
Minimum Operating Weight with Canopy*	2560 kg
Maximum Operating Weight with Canopy**	2925 kg

Minimum Operating Weight with Cab*	2680 kg
Maximum Operating Weight with Cab**	3050 kg
EU: CE Plate Weight with Canopy***	2695 kg
EU: CE Plate Weight with Cab***	2800 kg
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	2710 mm
Vertical Wall	2050 mm
Maximum Reach - Ground Level	4710 mm
Maximum Reach	4850 mm
Maximum Dig Height	4390 mm
Maximum Dump Clearance	3070 mm
Boom In Reach	1730 mm
Tail Swing without Counterweight	775 mm

Tail Swing - with Light Counterweight	845 mm
Tail Swing - with Extra Counterweight	890 mm
Maximum Blade Height	395 mm
Maximum Blade Depth	515 mm
Boom Height - Shipping Position	1650 mm
O/A Shipping Height	2480 mm
Swing Bearing - Height	560 mm
O/A Undercarriage Length	2010 mm
Overall Shipping Length*	4280 mm
Boom Swing - Right	830 mm
Boom Swing - Left	605 mm
Track Belt/Shoe Width	300 mm
Track Width	1570 mm
Ground Clearance	310 mm
Stick Length	1260 mm
Note	*Overall Shipping Length depends on blade position during shipment.

Travel System

Travel Speed - High	4.5 km/h
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Travel Speed - Low	2.6 km/h
Maximum Traction Force - High Speed	15.6 kN
Maximum Traction Force - Low Speed	26.8 kN
Ground Pressure - Minimum Weight	24.2 kPa
Ground Pressure - Maximum Weight	29 kPa
Gradeability - Maximum	30 degrees

Service Refill Capacities

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

Hydraulic System

Type	Load Sensing Hydraulics with Variable Displacement Piston Pump
Pump Flow at 2,400 rpm	100 L/min
Operating Pressure - Equipment	245 bar
Operating Pressure - Travel	245 bar
Operating Pressure - Swing	176 bar
Auxiliary Circuit - Primary - Flow	65 L/min

Auxiliary Circuit - Primary - Pressure	245 bar
Auxiliary Circuit - Secondary - Flow	25 L/min
Auxiliary Circuit - Secondary - Pressure	245 bar
Digging Force - Stick - Standard	13.8 kN
Digging Force - Stick - Long	12.3 kN
Digging Force - Bucket	23.3 kN
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	1570 mm
Height	320 mm

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	2510 mm
Vertical Wall	1870 mm
Maximum Reach - Ground Level	4510 mm
Maximum Reach	4660 mm
Maximum Dig Height	4270 mm
Maximum Dump Clearance	2950 mm
Boom In Reach	1710 mm
Tail Swing without Counterweight	775 mm
Tail Swing - with Light Counterweight	845 mm
Tail Swing with Extra Counterweight	890 mm
Maximum Blade Height	395 mm
Maximum Blade Depth	515 mm
Boom Height - Shipping Position	1560 mm
O/A Shipping Height	2480 mm
Swing Bearing - Height	560 mm
O/A Undercarriage Length	2010 mm
Overall Shipping Length*	4240 mm
Boom Swing - Right	830 mm

Boom Swing - Left	605 mm
Track Belt/Shoe Width	300 mm
Track Width	1570 mm
Ground Clearance	310 mm
Stick Length	1060 mm
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).
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Sustainability

Recyclability	95%
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Weight Increase From Minimum Configuration

Cab	125 kg
Counterweight (light)	100 kg
Counterweight (extra)	250 kg

Long Stick

15 kg

Steel Tracks

100 kg

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)