

Product Specifications For 303 CR



Engine

Net Power	17.6 kW
Engine Model	C1.1 Turbo
Bore	77 mm
Net Power - 2,400 rpm - ISO 9249, 80/1269/EEC	17.6 kW
Emissions	Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
Stroke	81 mm
Note	Advertised power is tested per the specified standard in effect at the time of manufacture.
Displacement	1.1 l
Gross Power - 2,400 rpm - SAE J1995:2014	18.4 kW

Weights

Operating Weight	3545 kg
Note (1)	*Minimum Weight is based on fixed rubber tracks, operator, full fuel tank, standard stick, blade, bucket and no extra counterweight.
EU: CE Plate Weight with Canopy***	3080 kg
Minimum Operating Weight with Canopy*	3025 kg
Minimum Operating Weight with Cab*	3140 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.

Maximum Operating Weight with Canopy**

3425 kg

EU: CE Plate Weight with Cab***

3180 kg

Maximum Operating Weight with Cab**

3545 kg

Note (2)

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

Dimensions - Long Stick

Dig Depth

2950 mm

Boom Height - Shipping Position

1920 mm

Tail Swing with Counterweight

890 mm

Track Belt/Shoe Width

300 mm

Maximum Reach

5240 mm

Boom In Reach

1910 mm

Boom Swing - Right

870 mm

Tail Swing

845 mm

Maximum Dump Clearance

3310 mm

Ground Clearance

310 mm

O/A Undercarriage Length

2070 mm

O/A Shipping Height	2480 mm
Track Width - Expanded	1550 mm
Maximum Blade Depth	535 mm
Maximum Reach - Ground Level	5110 mm
Stick Length	1560 mm
Overall Shipping Length*	4560 mm
Maximum Dig Height	4650 mm
Swing Bearing - Height	570 mm
Note	*Overall Shipping Length depends on blade position during shipment.
Tail Swing without Counterweight	775 mm
Maximum Blade Height	385 mm
Boom Swing - Left	640 mm
Vertical Wall	2070 mm

Blade

Height	350 mm
Width	1550 mm

Dimensions - Standard Stick

Maximum Blade Depth	535 mm
Tail Swing without Counterweight	775 mm

Maximum Dig Height	4510 mm
O/A Undercarriage Length	2070 mm
Boom Height - Shipping Position	1600 mm
Vertical Wall	1820 mm
Overall Shipping Length*	4510 mm
Boom Swing - Left	640 mm
O/A Shipping Height	2480 mm
Track Shoe Width	1550 mm
Boom Swing - Right	870 mm
Tail Swing with Extra Counterweight	890 mm
Swing Bearing - Height	570 mm
Tail Swing	845 mm
Maximum Blade Height	385 mm
Dig Depth	2650 mm
Maximum Dump Clearance	3170 mm
Maximum Reach - Ground Level	4830 mm
Maximum Reach	4980 mm
Ground Clearance	310 mm
Track Belt/Shoe Width	300 mm

Boom In Reach	1750 mm
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Stick Length	1260 mm
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Note	*Overall Shipping Length depends on blade position during shipment.
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Swing System

Boom Swing - Right	50 °
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Machine Swing Speed	9 r/min
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Boom Swing - Left	75 °
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Sound

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

Auxiliary Circuit - Primary - Flow	65 l/min
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Auxiliary Circuit - Secondary - Pressure	245 bar
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Operating Pressure - Swing	176 bar
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Pump Flow at 2,400 rpm	100 l/min
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Type	Load Sensing Hydraulics with Variable Displacement Piston Pump
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Digging Force - Stick - Standard	16.6 kN
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Operating Pressure - Travel	245 bar
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Digging Force - Bucket	28.4 kN
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Operating Pressure - Equipment	245 bar
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Auxiliary Circuit - Primary - Pressure	245 bar
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Auxiliary Circuit - Secondary - Flow	25 l/min
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Digging Force - Stick - Long	14.8 kN
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Note * Flow and pressure are not combinable. Under load, as flow rises pressure goes down.

Travel System

Gradeability - Maximum	30 degrees
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Ground Pressure - Maximum Weight	32.3 kPa
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Ground Pressure - Minimum Weight	27.6 kPa
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Travel Speed - High	4.5 km/h
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Maximum Traction Force - Low Speed	31.4 kN
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Travel Speed - Low	2.6 km/h
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Maximum Traction Force - High Speed	14.7 kN
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Service Refill Capacities

Cooling System	4 l
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Hydraulic Tank	18 l
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Engine Oil	4 l
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Fuel Tank	45 l
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Hydraulic System	35 l
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Weight Increase From Minimum Configuration

Counterweight	100 kg
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Cab	115 kg
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Steel Tracks	125 kg
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Long Stick	25 kg
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Extra Counterweight	250 kg
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Certification - Cab And Canopy

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

Recyclability	95%
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303 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

GUARDING

Top Guard ISO 10262:1998 Level I

OPERATOR ENVIRONMENT

Tilt-up Canopy or Tilt-Up Cab
ROPS – ISO 12117-2:2008
TOPS – ISO 12117:1997
Next Generation Advanced Monitor
– Touch Screen
– Site Reference System
– High Definition Camera Capable (IP68 and IP69K)
– Numeric Security Code
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
 - 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 (2200 mm/86.6 in)
Standard Stick (1260 mm/49.6 in)
Front Shovel Capable – Hydraulic Coupler
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

303 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)
Seat Belt Reminder System

UNDERCARRIAGE

Steel Track (300 mm/11.8 in wide)

BOOM, STICK AND LINKAGES

Long Stick (1560 mm/61.4 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

Polycarbonate Front Guard (ISO 10262:1998 Level I and EN356 P5A)

Polycarbonate Half Height Front Guard (Canopy only)

OTHER

Bio Oil Capable

Eco Drain

Water Jacket Heater