

Product Specifications For 303 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
Net Power - ISO 9249	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	Advertised power is tested per the specified standard in effect at the time of manufacture.
Note (1)	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	3545 kg
Minimum Operating Weight with Canopy*	3025 kg
Maximum Operating Weight with Canopy**	3425 kg
Minimum Operating Weight with Cab*	3140 kg

Maximum Operating Weight with Cab**	3545 kg
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EU: CE Plate Weight with Canopy***	3080 kg
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EU: CE Plate Weight with Cab***	3180 kg
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Note (1)	*Minimum Weight is based on fixed rubber tracks, operator, full fuel tank, standard stick, blade, no bucket and extra counterweight.
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Note (2)	**Maximum Weight is based on steel tracks, operator, full fuel tank, long stick, blade, no bucket and extra counterweight.
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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.
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Dimensions - Long Stick

Dig Depth	2950 mm
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Vertical Wall	2070 mm
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Maximum Reach - Ground Level	5110 mm
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Maximum Reach	5240 mm
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Maximum Dig Height	4650 mm
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Maximum Dump Clearance	3310 mm
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Boom In Reach	1910 mm
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Tail Swing without Counterweight	775 mm
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Tail Swing - with Extra Counterweight	890 mm
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Maximum Blade Depth	535 mm
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Maximum Blade Height	385 mm
Boom Height - Shipping Position	1920 mm
O/A Shipping Height	2480 mm
Swing Bearing - Height	570 mm
O/A Undercarriage Length	2070 mm
Overall Shipping Length*	4560 mm
Boom Swing - Right	870 mm
Boom Swing - Left	640 mm
Track Belt/Shoe Width	300 mm
Track Width	1550 mm
Stick Length	1560 mm
Minimum Ground Clearance Below Undercarriage	310 mm
Note	*Overall Shipping Length depends on blade position during shipment.

Weight Increase From Minimum Configuration

Cab	115 kg
Counterweight	100 kg
Extra Counterweight	250 kg
Long Stick	25 kg
Steel Tracks	125 kg

Travel System

Travel Speed - High	4.5 km/h
Travel Speed - Low	2.6 km/h
Maximum Traction Force - High Speed	14.7 kN
Maximum Traction Force - Low Speed	31.4 kN
Ground Pressure - Minimum Weight	27.6 kPa
Ground Pressure - Maximum Weight	32.3 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	16.6 kN
Digging Force - Stick - Long	14.8 kN
Digging Force - Bucket	28.4 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 °
Boom Swing - Right	50 °

Blade

Width	1550 mm
Height	350 mm

Certification - Cab And Canopy

Roll Over Protective Structure (ROPS)	ISO 12117-2:2008
Tip Over Protective Structure (TOPS)	ISO 12117:1997

Dimensions - Standard Stick

Dig Depth	2650 mm
Vertical Wall	1820 mm
Maximum Reach - Ground Level	4830 mm
Maximum Reach	4980 mm
Maximum Dig Height	4510 mm
Maximum Dump Clearance	3170 mm
Boom In Reach	1750 mm
Tail Swing without Counterweight	775 mm
Tail Swing with Extra Counterweight	890 mm
Maximum Blade Depth	535 mm
Maximum Blade Height	385 mm
Boom Height - Shipping Position	1600 mm
O/A Shipping Height	2480 mm
Swing Bearing - Height	570 mm
O/A Undercarriage Length	2070 mm
Overall Shipping Length*	4510 mm
Boom Swing - Right	870 mm

Boom Swing - Left	640 mm
Track Belt/Shoe Width	300 mm
Track Width	1550 mm
Minimum Ground Clearance Below Undercarriage	310 mm
Stick Length	1260 mm
Note	*Overall Shipping Length depends on blade position during shipment.

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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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”

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)
Cat C1.1 Turbo Engine (U.S. EPA Tier 4 Final/EU Stage V)
Automatic Engine Idle
Automatic Engine Idle

Automatic Engine Shutdown
Automatic Engine Shutdown
Automatic Two Speed Travel
Automatic Two Speed Travel
Fuel Water Separator
Fuel Water Separator
Power on Demand (not available in all regions)
Power on Demand (not available in all regions)
Variable Displacement Piston Pump
Variable Displacement Piston Pump
Load Sensing/Flow Sharing Hydraulics
Load Sensing/Flow Sharing Hydraulics

HYDRAULICS

Smart Tech Electronic Pump
Accumulator
Smart Tech Electronic Pump
Automatic Swing Brake
Accumulator
Auxiliary Line Quick Disconnects
Automatic Swing Brake
One and Two Way Auxiliary Flow
Auxiliary Hydraulic Lines
Continuous Auxiliary Flow
One and Two Way Auxiliary Flow
Auxiliary Hydraulic Lines
Continuous Auxiliary Flow
Auxiliary Line Quick Disconnects

GUARDING

Top Guard ISO 10262:1998 Level I
ROPS – ISO 12117-2:2008
TOPS – ISO 12117:1997
Top Guard ISO 10262:1998 (Level I)

OPERATOR ENVIRONMENT

Tilt-up Canopy or Tilt-Up Cab
Stick Steer Mode
Tilt-up Canopy or Tilt-Up Cab
Travel Cruise Control
Control Pattern Changer (optional in some regions)
ROPS – ISO 12117-2:2008
Adjustable Wrist Rests
TOPS – ISO 12117:1997
Washable Floor Mat

Next Generation Advanced Monitor

- Touch Screen
- Site Reference System
- High Definition Camera Capable (IP68 and IP69K)
- Numeric Security Code

Travel Pedals and Hand Levers

Stick Steer Mode

Machine Security

Travel Cruise Control

Machine Security - Standard Key with Pass Code

Control Pattern Changer (optional in some regions)

Fabric Suspension Seat (Cab only)

Adjustable Wrist Rests

Vinyl Suspension Seat (Canopy only)

Washable Floor Mat

Hydraulic Lockout - All Controls

Travel Pedals and Hand Levers

Retractable High Visibility Seat Belt (75 mm/3 in)

Machine Security

Coat Hook

Machine Security - Standard Key with Pass Code

Cup Holder

Fabric Suspension Seat (Cab only)

Storage Pocket

Vinyl Suspension Seat (Canopy only)

Skylight

Hydraulic Lockout - All Controls

Mounting Bosses for Front

Retractable High Visibility Seat Belt (75 mm/3 in)

Signaling/Warning Horn

Coat Hook

Interior Light (Cab only)

Cup Holder

Boom Light, Halogen (not available in all regions)

Storage Pocket

Utility Space for Mobile Phone

Skylight

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)

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
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
Front Shovel Capable – Pin-On
Thumb Ready (not available in all regions)
Certified Lifting Eye (optional in some regions)
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
Lock Out/Tag Out Battery Disconnect
Signaling/Warning Horn
12 Volt Power Socket
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 Air Conditioning
Cab with Heater
Cab with Heater
Control Pattern Changer (optional in some regions)
Control Pattern Changer (optional in some regions)
No Travel Pedals and Hand Levers
No Travel Pedals and Hand Levers
Machine Security – Push to Start with Key Fob/Pass Code
Machine Security – Push to Start with Key Fob/Pass Code
Vinyl Non-Suspension Seat (Canopy only)
Vinyl Non-Suspension Seat (Canopy only)
Seat Belt Reminder System
LED Front Lights
LED Front Lights
LED Front and Rear Lights
LED Front and Rear Lights
LED Boom Light
LED Boom Light
Mirrors Left and Right
Mirrors Left and Right
Radio – Bluetooth®, Auxiliary, Microphone, USB (charging only) (Cab only)
Radio – Bluetooth®, Auxiliary, Microphone, USB (charging only) (Cab only)

Next Generation Advanced Monitor

- Touch Screen
- Site Reference System
- High Definition Camera Capable (IP68 And IP69K)
- Numeric Security Code

UNDERCARRIAGE

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

BOOM, STICK AND LINKAGES

Long Stick (1560 mm/61.4 in)
Long Stick (1560 mm/61.4 in)
Front Shovel Capable – Dual Lock Manual Coupler
Front Shovel Capable – Dual Lock Manual Coupler
Attachments including Couplers, Thumbs, Buckets, Augers and Hammers

Front Shovel Capable – Hydraulic Coupler
2nd Auxiliary Hydraulic Lines
2nd Auxiliary Hydraulic Lines
Boom Lowering Check Valve
Attachments including Couplers, Thumbs, Buckets, Augers and Hammers
Stick Lowering Check Valve
Boom Lowering Check Valve (Standard in Europe)
Hydraulic Quick Coupler Lines (not available in all regions)
Stick Lowering Check Valve (Standard in Europe)
Hydraulic Quick Coupler Lines (not available in all regions)

ELECTRICAL

Battery Disconnect
Product Link PL243 (regulations apply)
Product Link PL243 (regulations apply)
Product Link PLE643 (regulations apply)
Product Link PLE643 (regulations apply)
Travel Alarm (standard in some regions)
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)
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
Bio Oil Capable
Eco Drain
Water Jacket Heater