

Product Specifications For 303 CR



Engine

Net Power	23.6 hp
Engine Model	C1.1 Turbo
Bore	3 in
Net Power - 2,400 rpm - ISO 9249, 80/1269/EEC	23.6 hp
Emissions	Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
Stroke	3.2 in
Note	Advertised power is tested per the specified standard in effect at the time of manufacture.
Displacement	69 in ³
Gross Power - 2,400 rpm - SAE J1995:2014	24.7 hp

Weights

Operating Weight	7817 lb
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***	6791 lb
Minimum Operating Weight with Canopy*	6670 lb
Minimum Operating Weight with Cab*	6924 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.
Maximum Operating Weight with Canopy**	7552 lb
EU: CE Plate Weight with Cab***	7012 lb
Maximum Operating Weight with Cab**	7817 lb
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	116.1 in
Boom Height - Shipping Position	75.6 in
Tail Swing with Counterweight	35 in
Track Belt/Shoe Width	11.8 in
Maximum Reach	206.3 in
Boom In Reach	74.2 in
Boom Swing - Right	34.3 in
Tail Swing	33.3 in
Maximum Dump Clearance	130.3 in
Ground Clearance	12.2 in
O/A Undercarriage Length	81.5 in

O/A Shipping Height	97.6 in
Track Width - Expanded	61 in
Maximum Blade Depth	21.1 in
Maximum Reach - Ground Level	201.2 in
Stick Length	61.4 in
Overall Shipping Length*	179.5 in
Maximum Dig Height	183.1 in
Swing Bearing - Height	22.4 in
Note	*Overall Shipping Length depends on blade position during shipment.
Tail Swing without Counterweight	30.5 in
Maximum Blade Height	15.2 in
Boom Swing - Left	25.2 in
Vertical Wall	81.5 in

Blade

Height	13.8 in
Width	61 in

Dimensions - Standard Stick

Maximum Blade Depth	21.1 in
Tail Swing without Counterweight	30.5 in

Maximum Dig Height	177.6 in
O/A Undercarriage Length	81.5 in
Boom Height - Shipping Position	63 in
Vertical Wall	71.7 in
Overall Shipping Length*	177.6 in
Boom Swing - Left	25.2 in
O/A Shipping Height	97.6 in
Track Shoe Width	61 in
Boom Swing - Right	34.3 in
Tail Swing with Extra Counterweight	35 in
Swing Bearing - Height	22.4 in
Tail Swing	33.3 in
Maximum Blade Height	15.2 in
Dig Depth	104.3 in
Maximum Dump Clearance	124.8 in
Maximum Reach - Ground Level	190.2 in
Maximum Reach	196.1 in
Ground Clearance	12.2 in
Track Belt/Shoe Width	11.8 in

Boom In Reach	68.9 in
Stick Length	49.6 in
Note	*Overall Shipping Length depends on blade position during shipment.

Swing System

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

Sound

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

Hydraulic System

Auxiliary Circuit - Primary - Flow	17 gal/min
Auxiliary Circuit - Secondary - Pressure	3553 psi
Operating Pressure - Swing	2553 psi
Pump Flow at 2,400 rpm	26 gal/min
Type	Load Sensing Hydraulics with Variable Displacement Piston Pump
Digging Force - Stick - Standard	3732 lbf
Operating Pressure - Travel	3553 psi

Digging Force - Bucket	6385 lbf
Operating Pressure - Equipment	3553 psi
Auxiliary Circuit - Primary - Pressure	3553 psi
Auxiliary Circuit - Secondary - Flow	7 gal/min
Digging Force - Stick - Long	3327 lbf
Note	* Flow and pressure are not combinable. Under load, as flow rises pressure goes down.

Travel System

Gradeability - Maximum	30 degrees
Ground Pressure - Maximum Weight	4.7 psi
Ground Pressure - Minimum Weight	4 psi
Travel Speed - High	2.8 mile/h
Maximum Traction Force - Low Speed	7059 lbf
Travel Speed - Low	1.6 mile/h
Maximum Traction Force - High Speed	3305 lbf

Service Refill Capacities

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

Fuel Tank	11.9 gal (US)
Hydraulic System	9.2 gal (US)

Weight Increase From Minimum Configuration

Counterweight	221 lb
Cab	254 lb
Steel Tracks	276 lb
Long Stick	55 lb
Extra Counterweight	551 lb

Certification - Cab And Canopy

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

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