

# Product Specifications For 303.5 CR



## Engine

Net Power	23.6 HP
Engine Model	C1.7
Bore	3.3 in
Net Power @ 2,200 rpm - U.S. EPA Tier 4 Final/EU Stage V - ISO 9249/EEC 80/1269	23.6 HP
Displacement	104 in <sup>3</sup>
Note	Net power is tested per ISO 9249 and 80/1269/EEC.
Gross Power - 2,400 rpm - SAE J1995	24.7 HP
Emissions	Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
Note (2)	Net power advertised is the power available at the flywheel when the engine is at rated speed and rated power when the engine is installed with the factory configured fan, air intake system, exhaust system, and alternator with a minimum alternator load.
Stroke	3.9 in

## Weights

Operating Weight	9239 lb
Minimum Operating Weight with Canopy*	7673 lb
EU: CE Plate Weight with Cab***	8004 lb

<b>Note (3)</b>	***CE Plate Weight is based on the most common EU configuration. Includes 75 kg (165 lb) operator and full fuel tank and excludes bucket.
<b>Maximum Operating Weight with Cab**</b>	9239 lb
<b>Maximum Operating Weight with Canopy**</b>	8930 lb
<b>EU: CE Plate Weight with Canopy***</b>	7784 lb
<b>Minimum Operating Weight with Cab*</b>	7982 lb
<b>Note (1)</b>	* Minimum Weight is based on fixed rubber tracks, operator, full fuel tank, standard stick, blade, bucket and no extra counterweight.
<b>Note (2)</b>	**Maximum Weight is based on steel tracks, operator, full fuel tank, long stick, blade, bucket and extra counterweight.

## Dimensions - Long Stick

<b>Dig Depth</b>	122.4 in
<b>Track Belt/Shoe Width</b>	11.8 in
<b>Maximum Reach</b>	216.9 in
<b>O/A Track Width</b>	70.1 in
<b>Maximum Blade Depth</b>	21.1 in
<b>Tail Swing without Counterweight</b>	35 in
<b>Stick Length</b>	61.4 in
<b>Swing Bearing - Height</b>	22.2 in

<b>Boom Swing - Left</b>	640 mm
<b>Overall Shipping Length*</b>	190.9 in
<b>Maximum Reach - Ground Level</b>	211.8 in
<b>Maximum Dump Clearance</b>	141.7 in
<b>Tail Swing with Counterweight</b>	37.8 in
<b>O/A Shipping Height</b>	97.6 in
<b>Note</b>	*Overall Shipping Length depends on blade position during shipment.
<b>Boom In Reach</b>	73.2 in
<b>Maximum Dig Height</b>	197.6 in
<b>Vertical Wall</b>	94.1 in
<b>Boom Height - Shipping Position</b>	68.9 in
<b>Maximum Blade Height</b>	15.2 in
<b>O/A Undercarriage Length</b>	87.4 in
<b>Boom Swing - Right</b>	34.3 °
<b>Ground Clearance</b>	12.2 in

## Blade

<b>Height</b>	13.8 in
<b>Width</b>	70.1 in

## Dimensions - Standard Stick

<b>Boom Swing - Right</b>	34.3 °
<b>Tail Swing with Counterweight</b>	37.8 in
<b>Stick Length</b>	49.6 in
<b>Maximum Reach - Ground Level</b>	202 in
<b>Boom Swing - Left</b>	25.2 °
<b>Maximum Reach</b>	207.5 in
<b>Track Belt/Shoe Width</b>	11.8 in
<b>Maximum Dump Clearance</b>	137.4 in
<b>Swing Bearing - Height</b>	22.2 in
<b>Boom Height - Shipping Position</b>	59.8 in
<b>O/A Shipping Height</b>	97.6 in
<b>Overall Shipping Length*</b>	189 in
<b>Boom In Reach</b>	69.3 in
<b>Note</b>	*Overall Shipping Length depends on blade position during shipment.
<b>Tail Swing with Extra Counterweight</b>	39.6 in
<b>Maximum Dig Height</b>	193.7 in
<b>Vertical Wall</b>	88.6 in
<b>Dig Depth</b>	110.6 in

<b>O/A Undercarriage Length</b>	87.4 in
<b>Tail Swing without Counterweight</b>	35 in
<b>Maximum Blade Depth</b>	21.1 in
<b>Maximum Blade Height</b>	15.2 in
<b>Ground Clearance</b>	12.2 in

## Weight Increase From Minimum Configuration

<b>Cab</b>	309 lb
<b>Counterweight</b>	221 lb
<b>Steel Tracks</b>	287 lb
<b>Long Stick</b>	44 lb
<b>Angle Blade</b>	353 lb
<b>Extra Counterweight</b>	551 lb

## Service Refill Capacities

<b>Fuel Tank</b>	11.9 gal (US)
<b>Hydraulic Tank</b>	5.3 gal (US)
<b>Cooling System</b>	1.8 gal (US)
<b>Engine Oil</b>	1.6 gal (US)
<b>Hydraulic System</b>	11.9 gal (US)

## Travel System

<b>Ground Pressure - Minimum Weight</b>	4.3 psi
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Maximum Traction Force - High Speed	3799 lbf
Maximum Traction Force - Low Speed	6969 lbf
Travel Speed - High	2.8 mile/h
Gradeability - Maximum	30 degrees
Travel Speed - Low	1.6 mile/h
Ground Pressure - Maximum Weight	5.2 psi

# Hydraulic System

Pump Flow at 2,400 rpm	26 gal/min
Auxiliary Circuit - Primary - Flow	18 gal/min
Operating Pressure - Swing	2625 psi
Type	Load Sensing Hydraulics with Variable Displacement Piston Pump
Auxiliary Circuit - Secondary - Pressure	3553 psi
Digging Force - Stick - Long	3799 lbf
Auxiliary Circuit - Secondary - Flow	7 gal/min
Digging Force - Bucket	7419 lbf
Operating Pressure - Travel	3553 psi
Operating Pressure - Equipment	3553 psi
Auxiliary Circuit - Primary - Pressure	3553 psi

Digging Force - Stick - Standard	4249 lbf
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#### Note

\*Flow and pressure are not combinable. Under load, as flow rises pressure goes down.

## Sound

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

## Swing System

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

## Dimensions (Approximate) - Standard Stick

Tail Swing with Extra Counterweight	39.6 in
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## 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 (Approximate) - Long Stick

Tail Swing with Extra Counterweight	39.6 in
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## Sustainability

Recyclability	95%
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## 303.5 CR Standard Equipment

## **ENGINE**

Cat C1.7 NA 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  
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)

Next Generation Advanced Monitor (Optional)

- 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

## **UNDERCARRIAGE**

Rubber Belt (300 mm/11.8 in wide)

Dozer Blade

Dozer Blade Float

Angle Blade

Tie Downs on Track Frame

## **BOOM, STICK AND LINKAGES**

One Piece Boom (2400 mm/94.5 in)

Standard Stick (1260 mm/49.6 in)

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

## **303.5 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)

## **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)  
Front Shovel Capable – Hydraulic Coupler

## **ELECTRICAL**

Battery Disconnect  
Product Link PL243 (regulations apply)  
Product Link PLE643 (regulations apply)  
Travel Alarm (standard in some regions)

## **GUARDING**

Guard, Canopy  
Guard, Mesh

## **OTHER**

Bio Oil Capable  
Eco Drain  
Water Jacket Heater