

# Product Specifications For 303.5 CR



## Engine

Net Power	17.6 kW
Engine Model	C1.7
Bore	84 mm
Net Power @ 2,200 rpm - U.S. EPA Tier 4 Final/EU Stage V - ISO 9249/EEC 80/1269	17.6 kW
Displacement	1.7 l
Note	Net power is tested per ISO 9249 and 80/1269/EEC.
Gross Power - 2,400 rpm - SAE J1995	18.4 kW
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	100 mm

## Weights

Operating Weight	4190 kg
Minimum Operating Weight with Canopy*	3480 kg
EU: CE Plate Weight with Cab***	3630 kg

<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>	4190 kg
<b>Maximum Operating Weight with Canopy**</b>	4050 kg
<b>EU: CE Plate Weight with Canopy***</b>	3530 kg
<b>Minimum Operating Weight with Cab*</b>	3620 kg
<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>	3110 mm
<b>Track Belt/Shoe Width</b>	300 mm
<b>Maximum Reach</b>	5510 mm
<b>O/A Track Width</b>	1780 mm
<b>Maximum Blade Depth</b>	535 mm
<b>Tail Swing without Counterweight</b>	890 mm
<b>Stick Length</b>	1560 mm
<b>Swing Bearing - Height</b>	565 mm

<b>Boom Swing - Left</b>	25.2 °
<b>Overall Shipping Length*</b>	4850 mm
<b>Maximum Reach - Ground Level</b>	5380 mm
<b>Maximum Dump Clearance</b>	3600 mm
<b>Tail Swing with Counterweight</b>	960 mm
<b>O/A Shipping Height</b>	2480 mm
<b>Note</b>	*Overall Shipping Length depends on blade position during shipment.
<b>Boom In Reach</b>	1860 mm
<b>Maximum Dig Height</b>	5020 mm
<b>Vertical Wall</b>	2390 mm
<b>Boom Height - Shipping Position</b>	1750 mm
<b>Maximum Blade Height</b>	385 mm
<b>O/A Undercarriage Length</b>	2220 mm
<b>Boom Swing - Right</b>	870 mm
<b>Ground Clearance</b>	310 mm

## Blade

<b>Height</b>	350 mm
<b>Width</b>	1780 mm

## Dimensions - Standard Stick

<b>Boom Swing - Right</b>	870 mm
<b>Tail Swing with Counterweight</b>	960 mm
<b>Stick Length</b>	1260 mm
<b>Maximum Reach - Ground Level</b>	5130 mm
<b>Boom Swing - Left</b>	640 mm
<b>Maximum Reach</b>	5270 mm
<b>Track Belt/Shoe Width</b>	300 mm
<b>Maximum Dump Clearance</b>	3490 mm
<b>Swing Bearing - Height</b>	565 mm
<b>Boom Height - Shipping Position</b>	1520 mm
<b>O/A Shipping Height</b>	2480 mm
<b>Overall Shipping Length*</b>	4800 mm
<b>Boom In Reach</b>	1760 mm
<b>Note</b>	*Overall Shipping Length depends on blade position during shipment.
<b>Tail Swing with Extra Counterweight</b>	1005 mm
<b>Maximum Dig Height</b>	4920 mm
<b>Vertical Wall</b>	2250 mm
<b>Dig Depth</b>	2810 mm

O/A Undercarriage Length	2220 mm
Tail Swing without Counterweight	890 mm
Maximum Blade Depth	535 mm
Maximum Blade Height	385 mm
Ground Clearance	310 mm

## Weight Increase From Minimum Configuration

Cab	140 kg
Counterweight	100 kg
Steel Tracks	130 kg
Long Stick	20 kg
Angle Blade	160 kg
Extra Counterweight	250 kg

## Service Refill Capacities

Fuel Tank	45 l
Hydraulic Tank	20 l
Cooling System	7 l
Engine Oil	6 l
Hydraulic System	45 l

## Travel System

Ground Pressure - Minimum Weight	29.6 kPa
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Maximum Traction Force - High Speed	16.9 kN
Maximum Traction Force - Low Speed	31 kN
Travel Speed - High	4.5 km/h
Gradeability - Maximum	30 degrees
Travel Speed - Low	2.6 km/h
Ground Pressure - Maximum Weight	35.7 kPa

## Hydraulic System

Pump Flow at 2,400 rpm	100 L/min
Auxiliary Circuit - Primary - Flow	70 L/min
Operating Pressure - Swing	181 bar
Type	Load Sensing Hydraulics with Variable Displacement Piston Pump
Auxiliary Circuit - Secondary - Pressure	245 bar
Digging Force - Stick - Long	16.9 kN
Auxiliary Circuit - Secondary - Flow	25 L/min
Digging Force - Bucket	33 kN
Operating Pressure - Travel	245 bar
Operating Pressure - Equipment	245 bar
Auxiliary Circuit - Primary - Pressure	245 bar

Digging Force - Stick - Standard	18.9 kN
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Note	*Flow and pressure are not combinable. Under load, as flow rises pressure goes down.
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## Sound

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

Machine Swing Speed	9 r/min
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Boom Swing - Right	50 °
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Boom Swing - Left	75 °
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## Dimensions (Approximate) - Standard Stick

Tail Swing with Extra Counterweight	1005 mm
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## Certification - Cab And Canopy

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

Tail Swing with Extra Counterweight	1005 mm
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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