

# PRODUCT SPECIFICATIONS FOR 303.5 CR

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## ENGINE

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<b>Net Power</b>	23.6 HP
<b>Engine Model</b>	C1.7
<b>Bore</b>	3.3 in
<b>Net Power @ 2,200 rpm - U.S. EPA Tier 4 Final/EU Stage V - ISO 9249/EEC 80/1269</b>	23.6 HP
<b>Displacement</b>	104 in <sup>3</sup>
<b>Note</b>	Net power is tested per ISO 9249 and 80/1269/EEC.
<b>Gross Power - 2,400 rpm - SAE J1995</b>	24.7 HP
<b>Emissions</b>	Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
<b>Note (2)</b>	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.
<b>Stroke</b>	3.9 in

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## WEIGHTS

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<b>Operating Weight</b>	9239 lb
<b>Minimum Operating Weight with Canopy*</b>	7673 lb
<b>EU: CE Plate Weight with Cab***</b>	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.

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## DIMENSIONS - LONG STICK

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<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

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## BLADE

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

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## DIMENSIONS - STANDARD STICK

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<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

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#### WEIGHT INCREASE FROM MINIMUM CONFIGURATION

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<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

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#### SERVICE REFILL CAPACITIES

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<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)

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#### TRAVEL SYSTEM

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

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## HYDRAULIC SYSTEM

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<b>Pump Flow at 2,400 rpm</b>	26 gal/min
<b>Auxiliary Circuit - Primary - Flow</b>	18 gal/min
<b>Operating Pressure - Swing</b>	2625 psi
<b>Type</b>	Load Sensing Hydraulics with Variable Displacement Piston Pump
<b>Auxiliary Circuit - Secondary - Pressure</b>	3553 psi
<b>Digging Force - Stick - Long</b>	3799 lbf
<b>Auxiliary Circuit - Secondary - Flow</b>	7 gal/min
<b>Digging Force - Bucket</b>	7419 lbf
<b>Operating Pressure - Travel</b>	3553 psi
<b>Operating Pressure - Equipment</b>	3553 psi
<b>Auxiliary Circuit - Primary - Pressure</b>	3553 psi
<b>Digging Force - Stick - Standard</b>	4249 lbf
<b>Note</b>	*Flow and pressure are not combinable. Under load, as flow rises pressure goes down.

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## SOUND

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### Note

European Union Directive "2000/14/EC"

Noise	
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
DIMENSIONS (APPROXIMATE) - STANDARD STICK	
Tail Swing with Extra Counterweight	
	39.6 in
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

## 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

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)

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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

