

# PRODUCT SPECIFICATIONS FOR 305 CR



## ENGINE

<b>Net Power</b>	45 HP
<b>Engine Model</b>	C1.7 Turbo
<b>Net Power - 2,400 rpm - ISO 9249, 80/1269/EEC</b>	45 HP
<b>Note</b>	Advertised power is tested per the specified standard in effect at the time of manufacture.
<b>Gross Power - 2,400 rpm - SAE J1995:2014</b>	48.4 HP
<b>Stroke</b>	3.9 in
<b>Bore</b>	3.3 in
<b>Displacement</b>	101 in <sup>3</sup>
<b>Emissions</b>	The Cat® C3.3B engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.

## WEIGHTS

<b>Operating Weight</b>	12688 lb
<b>Minimum Operating Weight with Canopy*</b>	11016 lb
<b>Note (1)</b>	*Minimum Weight is based on rubber tracks, operator, full fuel tank, standard stick, straight blade, no bucket and no extra counterweight.
<b>Minimum Operating Weight with Cab*</b>	11234 lb
<b>Maximum Operating Weight with Cab**</b>	12688 lb

<b>Maximum Operating Weight with Canopy**</b>	12469 lb
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**Note (2)**

\*\*Maximum Weight is based on steel tracks with pads, operator, full fuel tank, long stick, straight blade, extra counterweight and no bucket.

## **DIMENSIONS - LONG STICK**

<b>Dig Depth</b>	144.5 in
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<b>Stick Length</b>	63 in
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<b>Track Width</b>	78 in
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<b>Maximum Blade Depth</b>	23.4 in
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<b>Maximum Dump Clearance</b>	151.4 in
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<b>Boom Swing - Left</b>	615 mm
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<b>Boom Swing - Right</b>	34.1 °
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<b>Swing Bearing - Height</b>	24.4 in
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<b>Boom Height - Shipping Position</b>	74.6 in
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<b>Boom In Reach</b>	101.6 in
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<b>Maximum Reach</b>	235.8 in
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<b>Track Belt/Shoe Width</b>	15.7 in
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<b>Maximum Reach - Ground Level</b>	229.7 in
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<b>Maximum Blade Height</b>	15.2 in
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<b>O/A Shipping Height</b>	100.4 in
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<b>Tail Swing without Counterweight</b>	43.1 in
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<b>O/A Undercarriage Length</b>	101.6 in
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<b>Tail Swing with Counterweight</b>	47.2 in
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<b>Vertical Wall</b>	100.8 in
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<b>Note</b>	*Overall Shipping Length depends on blade position during shipment.
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<b>Overall Shipping Length*</b>	210.2 in
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<b>Maximum Dig Height</b>	210.8 in
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<b>Ground Clearance</b>	13.2 in
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## SWING SYSTEM

<b>Boom Swing - Left</b>	72 Degrees
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<b>Machine Swing Speed</b>	9 r/min
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<b>Boom Swing - Right</b>	50 Degrees
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## DIMENSIONS - STANDARD STICK

<b>Maximum Dig Height</b>	205.3 in
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<b>Maximum Blade Height</b>	15.2 in
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<b>Dig Depth</b>	134.6 in
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<b>Boom Swing - Right</b>	34.1 °
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<b>Maximum Reach - Ground Level</b>	220.1 in
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<b>Tail Swing without Counterweight</b>	43.1 in
<b>Boom Height - Shipping Position</b>	71.7 in
<b>Maximum Blade Depth</b>	23.4 in
<b>Maximum Reach</b>	226.6 in
<b>Boom Swing - Left</b>	24.2 °
<b>Overall Shipping Length*</b>	208.9 in
<b>O/A Undercarriage Length</b>	101.6 in
<b>Swing Bearing - Height</b>	24.4 in
<b>Stick Length</b>	53.2 in
<b>Track Belt/Shoe Width</b>	15.7 in
<b>Boom In Reach</b>	101.2 in
<b>Vertical Wall</b>	91.9 in
<b>Tail Swing with Counterweight</b>	47.2 in
<b>Maximum Dump Clearance</b>	145.7 in
<b>O/A Shipping Height</b>	100.4 in
<b>Note</b>	*Overall Shipping Length depends on blade position during shipment.
<b>Ground Clearance</b>	13.2 in

## SERVICE REFILL CAPACITIES

<b>Hydraulic Tank</b>	16 gal (US)
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<b>Fuel Tank</b>	17 gal (US)
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<b>Engine Oil</b>	1.6 gal (US)
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<b>Hydraulic System</b>	20 gal (US)
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<b>Cooling System</b>	2.9 gal (US)
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## TRAVEL SYSTEM

<b>Ground Pressure - Minimum Weight</b>	4 psi
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<b>Maximum Traction Force - Low Speed</b>	11353 lbf
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<b>Ground Pressure - Maximum Weight</b>	4.7 psi
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<b>Travel Speed - Low</b>	1.7 mile/h
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<b>Maximum Traction Force - High Speed</b>	5553 lbf
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<b>Travel Speed - High</b>	3.1 mile/h
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<b>Gradeability - Maximum</b>	30 degrees
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## BLADE

<b>Angle Blade Width</b>	78 in
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<b>Straight Blade Height</b>	15.4 in
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<b>Straight Blade Width</b>	78 in
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<b>Angle Blade Height</b>	15.7 in
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<b>Angle Blade - Left</b>	25 degrees
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<b>Angle Blade - Right</b>	25 degrees
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## SOUND

**Average Exterior  
Sound Pressure (ISO  
6395:2008)** 99 dB(A)

**Note** \*The declared dynamic operator sound pressure levels per ISO 6396:2008. The measurements were conducted with the cab doors and windows closed.  
\*\*The labeled sound power level for the CE marked configurations when measured according to the test procedure and conditions specified in 2000/14/EC.

**Operator Sound  
Pressure (ISO  
6396:2008)** 72 dB(A)

## HYDRAULIC SYSTEM

**Auxiliary Circuit - Secondary -  
Pressure** 3843 psi

**Pump Flow at 2,400 rpm** 35 gal/min

**Operating Pressure - Swing** 2901 psi

**Operating Pressure - Travel** 3843 psi

**Auxiliary Circuit - Secondary -  
Flow** 7 gal/min

**Digging Force - Stick - Standard** 6362 lbf

**Auxiliary Circuit - Primary -  
Pressure** 3843 psi

**Auxiliary Circuit - Primary - Flow** 21 gal/min

**Digging Force - Bucket** 11061 lbf

**Operating Pressure - Equipment** 3843 psi

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

Type	Load Sensing Hydraulics with Variable Displacement Piston Pump
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Digging Force - Stick - Long	5665 lbf
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## CERTIFICATION - CAB AND CANOPY

Top Guard	ISO 10262:1998 Level I
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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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## WEIGHT INCREASE FROM MINIMUM CONFIGURATION

Counterweight	534 lb
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Long Stick	75 lb
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Steel Tracks with Pads	827 lb
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Angle Blade	225 lb
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## SUSTAINABILITY

Recyclability	96%
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## 305 CR STANDARD EQUIPMENT

### ENGINE

- Cat® C1.7 Turbo Engine (U.S. EPA Tier 4 Final)
- 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**

Canopy or 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 (not available in all regions)  
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 (400 mm/15.7 in)  
Dozer Straight Blade  
Dozer Blade Float  
Tie Downs on Track Frame

## **BOOM, STICK AND LINKAGES**



One Piece Boom (2716 mm/106.9 in)  
Standard Stick (1351 mm/53.2 in)  
Front Shovel Capable – Pin-On  
Thumb Ready  
Certified Lifting Eye

## **ELECTRICAL**

12 Volt Battery  
Software (machine and monitor)  
Maintenance Free Battery  
Battery Disconnect  
12 Volt Power Socket  
Travel Alarm (optional in some regions)

## **305 CR OPTIONAL EQUIPMENT**

### **UNDERCARRIAGE**

Steel Track (400 mm/15.7 in)  
Steel Track with Rubber Pads  
Angle Blade

### **BOOM, STICK AND LINKAGES**

Long Stick (1601 mm/63.0 in)  
Front Shovel Capable – Dual Lock Manual Coupler  
Front Shovel Capable – Hydraulic Coupler  
Attachments including Couplers, Thumbs, Buckets, Augers and Hammers  
2nd Auxiliary Hydraulic Lines  
Bucket Divert Lines  
Boom Lowering Check Valve  
Stick Lowering Check Valve  
Hydraulic Quick Coupler Lines

## **ELECTRICAL**

Product Link™ PL243 (regulations apply)  
Product Link PLE643 (regulations apply)

### **GUARDING**

Top Guard ISO 10262:1998 (Level II) (Cab)  
Front Guard (Mesh) ISO 10262:1998 (Level I) (Cab)  
Front Guard (Heavy Duty) ISO 10262:1998 (Level II) (Cab)  
Front Guard (Mesh) ISO 10262:1998 (Level I) (Canopy)  
Front Guard (Heavy Duty) ISO 10262:1998 (Level II) (Canopy)

### **OTHER**

Bio Oil Capable

Eco Drain

Water Jacket Heater

Counterweight (242 kg/534 lb)

## **OPERATOR ENVIRONMENT**

Cab with Air Conditioning

Cab with Heater

No Travel Pedals and Hand Levers (optional in some regions)

Machine Security – Push to Start with Key Fob/Pass Code

LED Front Lights

LED Front and Rear Lights

LED Boom Light

Mirrors, Left, Right and Rear

Camera

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

Seat Belt Reminder System

Cat Grade with Advanced 2D

Cat Grade with 3D