

Product Specifications For 305 CR



Engine

Net Power	33.6 kW
Engine Model	C1.7 Turbo
Displacement	1.662 l
Gross Power - 2,400 rpm - SAE J1995:2014	36.1 kW
Stroke	100 mm
Bore	84 mm
Net Power - 2,400 rpm - ISO 9249, 80/1269/EEC	33.6 kW
Note	Advertised power is tested per the specified standard in effect at the time of manufacture.
Emissions	Meets U.S. EPA Tier 4 Final and EU Stage V emissions standards.

Weights

Operating Weight	5754 kg
Note (2)	**Maximum Weight is based on steel tracks with pads, operator, full fuel tank, long stick, straight blade, extra counterweight and no bucket.
Minimum Operating Weight with Cab*	5105 kg
Note (1)	*Minimum Weight is based on rubber tracks, operator, full fuel tank, standard stick, straight blade, no bucket and no extra counterweight.
Minimum Operating Weight with Canopy*	5006 kg

**Maximum Operating Weight
with Canopy**** 5665 kg

**Maximum Operating Weight
with Cab**** 5764 kg

Dimensions - Long Stick

Dig Depth 3670 mm

Maximum Reach 5990 mm

O/A Shipping Height 2550 mm

Vertical Wall 2560 mm

Track Width 1980 mm

Overall Shipping Length* 5340 mm

Maximum Dump Clearance 3845 mm

Tail Swing with Counterweight 1200 mm

Boom Swing - Right 865 mm

Boom Swing - Left 24.2 °

**Tail Swing without
Counterweight** 1095 mm

Track Belt/Shoe Width 400 mm

Maximum Reach - Ground Level 5835 mm

Stick Length 1601 mm

Swing Bearing - Height 619 mm

O/A Undercarriage Length	2580 mm
Boom In Reach	2580 mm
Maximum Blade Depth	650 mm
Maximum Blade Height	400 mm
Maximum Dig Height	5355 mm
Boom Height - Shipping Position	1895 mm
Note	*Overall Shipping Length depends on blade position during shipment.
Ground Clearance	335 mm

Air Conditioning System

Air Conditioning	The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf (Europe) (Global Warming Potential = 1430). See label or instruction manual for gas refrigerant identification. The system contains 0.75 kg (1.65 lb), 0.90 kg (1.98 lb) or 1 kg (2.20 lb) of refrigerant which has a CO2 equivalent of 1.430 metric tonnes (1.576 tons) for R134a and 0.001 tonnes (0.001 tons) for R1234yf (Europe).
-------------------------	---

Service Refill Capacities

Hydraulic Tank	60 l
Engine Oil	6 l
Hydraulic System	75 l
Fuel Tank	68 l
Cooling System	11 l

Swing System

Boom Swing - Left	72 Degrees
--------------------------	------------

Machine Swing Speed

9 r/min

Boom Swing - Right

50 Degrees

Hydraulic System

Digging Force - Bucket

49.2 kN

Auxiliary Circuit - Secondary - Pressure

265 bar

Operating Pressure - Equipment

265 bar

Auxiliary Circuit - Secondary - Flow

28 L/min

Operating Pressure - Travel

265 bar

Type

Load Sensing Hydraulics with Variable Displacement Piston Pump

Digging Force - Stick - Standard

28.3 kN

Auxiliary Circuit - Primary - Pressure

265 bar

Note

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

Pump Flow at 2,400 rpm

133 L/min

Auxiliary Circuit - Primary - Flow

80 L/min

Operating Pressure - Swing

200 bar

Digging Force - Stick - Long

25.2 kN

Dimensions - Standard Stick

Tail Swing without Counterweight

1095 mm

Boom Swing - Left	615 mm
Boom Swing - Right	865 mm
Maximum Dig Height	5215 mm
Vertical Wall	2335 mm
Maximum Blade Height	400 mm
Swing Bearing - Height	619 mm
Boom Height - Shipping Position	1820 mm
Overall Shipping Length*	5305 mm
O/A Shipping Height	2550 mm
Dig Depth	3420 mm
Maximum Reach - Ground Level	5590 mm
Maximum Dump Clearance	3700 mm
Maximum Reach	5755 mm
Boom In Reach	2570 mm
Maximum Blade Depth	650 mm
Note	*Overall Shipping Length depends on blade position during shipment.
O/A Undercarriage Length	2580 mm
Track Belt/Shoe Width	400 mm
Stick Length	1351 mm

Tail Swing with Counterweight	1200 mm
--------------------------------------	---------

Ground Clearance	335 mm
-------------------------	--------

Travel System

Maximum Traction Force - High Speed	24.7 kN
--	---------

Travel Speed - High	5 km/h
----------------------------	--------

Travel Speed - Low	2.8 km/h
---------------------------	----------

Ground Pressure - Maximum Weight	32.2 kPa
---	----------

Gradeability - Maximum	30 degrees
-------------------------------	------------

Ground Pressure - Minimum Weight	27.3 kPa
---	----------

Maximum Traction Force - Low Speed	50.5 kN
---	---------

Weight Increase From Minimum Configuration

Counterweight	242 kg
----------------------	--------

Angle Blade	92 kg
--------------------	-------

Long Stick	34 kg
-------------------	-------

Steel Tracks with Pads	375 kg
-------------------------------	--------

Blade

Angle Blade - Right	25 degrees
----------------------------	------------

Angle Blade Width	1980 mm
--------------------------	---------

Angle Blade Height	400 mm
---------------------------	--------

Straight Blade Width	1980 mm
-----------------------------	---------

Straight Blade Height 390 mm

Angle Blade - Left 25 degrees

Certification - Cab And Canopy

Roll Over Protective Structure (ROPS) ISO 12117-2:2008

Top Guard ISO 10262:1998 Level I

Sound

Operator Sound Pressure (ISO 6396:2008) 76 dB(A)

Average Exterior Sound Pressure (ISO 6395:2008) 97 dB(A)

Note European Union Directive "2000/14/EC"

Sustainability

Recyclability 96%

305 CR Standard Equipment

GUARDING

ROPS ISO 12117-2:2008

Top Guard ISO 10262:1998 (Level I)

ENGINE

Cat® C1.7 Turbo Engine (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

Canopy or Cab (Canopy not available in some regions)
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

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 3D
Cat Grade with Advanced 2D

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)