

Product Specifications For 303.5 CR



Engine

Net Power	17.6 kW
Engine Model	C1.7
Net Power @ 2,200 rpm - U.S. EPA Tier 4 Final/EU Stage V - ISO 9249/EEC 80/1269	17.6 kW
Net Power - ISO 9249	18.4 kW
Bore	84 mm
Stroke	100 mm
Displacement	1.7 l
Emissions	Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
Note	Advertised power is tested per the specified standard in effect at the time of manufacture.
Note (1)	Net power advertised is the power available at the flywheel when the engine is at the rated speed of 2,200 rpm and the engine is installed with the factory configured fan, air intake system, exhaust system and alternator with a minimum alternator load.

Weights

Operating Weight	4190 kg
Minimum Operating Weight with Canopy*	3480 kg
Maximum Operating Weight with Canopy**	4050 kg

Minimum Operating Weight with Cab*	3620 kg
Maximum Operating Weight with Cab**	4190 kg
EU: CE Plate Weight with Canopy***	3530 kg
EU: CE Plate Weight with Cab***	3630 kg
Note (1)	*Minimum Weight is based on fixed rubber tracks, operator, full fuel tank, standard stick, blade, no bucket and extra counterweight.
Note (2)	**Maximum Weight is based on steel tracks, operator, full fuel tank, long stick, blade, no bucket and extra counterweight.
Note (3)	***CE Plate Weight is based on the most common EU configuration. Includes 75 kg (165 lb) operator and full fuel tank and excludes bucket.

Dimensions - Long Stick

Dig Depth	3110 mm
Vertical Wall	2390 mm
Maximum Reach - Ground Level	5380 mm
Maximum Reach	5510 mm
Maximum Dig Height	5020 mm
Maximum Dump Clearance	3600 mm
Boom In Reach	1860 mm
Tail Swing without Counterweight	890 mm
Tail Swing - with Extra Counterweight	1005 mm

Maximum Blade Depth	535 mm
Maximum Blade Height	385 mm
Boom Height - Shipping Position	1750 mm
O/A Shipping Height	2480 mm
Swing Bearing - Height	565 mm
O/A Undercarriage Length	2220 mm
Overall Shipping Length*	4850 mm
Boom Swing - Right	870 mm
Boom Swing - Left	25.2 °
Track Belt/Shoe Width	300 mm
Track Width	1780 mm
Minimum Ground Clearance Below Undercarriage	310 mm
Stick Length	1560 mm
Note	*Overall Shipping Length depends on blade position during shipment.

Weight Increase From Minimum Configuration

Cab	140 kg
Counterweight	100 kg
Extra Counterweight	250 kg
Long Stick	20 kg

Steel Tracks	130 kg
Angle Blade	160 kg

Travel System

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

Service Refill Capacities

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

Hydraulic System

Type	Load Sensing Hydraulics with Variable Displacement Piston Pump
Pump Flow at 2,400 rpm	100 L/min
Operating Pressure - Equipment	245 bar

Operating Pressure - Travel	245 bar
Operating Pressure - Swing	181 bar
Auxiliary Circuit - Primary - Flow	70 L/min
Auxiliary Circuit - Primary - Pressure	245 bar
Auxiliary Circuit - Secondary - Flow	25 L/min
Auxiliary Circuit - Secondary - Pressure	245 bar
Digging Force - Stick - Standard	18.9 kN
Digging Force - Stick - Long	16.9 kN
Digging Force - Bucket	33 kN
Note	*Flow and pressure are not combinable. Under load, as flow rises pressure goes down.

Swing System

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

Blade

Width	1780 mm
Height	350 mm

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 - Standard Stick

Dig Depth	2810 mm
Vertical Wall	2250 mm
Maximum Reach - Ground Level	5130 mm
Maximum Reach	5270 mm
Maximum Dig Height	4920 mm
Maximum Dump Clearance	3490 mm
Boom In Reach	1760 mm
Tail Swing without Counterweight	890 mm
Tail Swing with Extra Counterweight	1005 mm
Maximum Blade Depth	535 mm
Maximum Blade Height	385 mm
Boom Height - Shipping Position	1520 mm
O/A Shipping Height	2480 mm
Swing Bearing - Height	565 mm
O/A Undercarriage Length	2220 mm

Overall Shipping Length*	4800 mm
Boom Swing - Right	870 mm
Boom Swing - Left	640 mm
Track Belt/Shoe Width	300 mm
Track Width	1780 mm
Minimum Ground Clearance Below Undercarriage	310 mm
Stick Length	1260 mm
Note	*Overall Shipping Length depends on blade position during shipment.

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).
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Sound

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

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)

Cat C1.7 NA Engine (U.S. EPA Tier 4 Final/EU Stage V)

Automatic Engine Idle

Automatic Engine Idle

Automatic Engine Shutdown

Automatic Engine Shutdown

Automatic Two Speed Travel

Automatic Two Speed Travel

Fuel Water Separator

Fuel Water Separator

Power on Demand (not available in all regions)

Power on Demand (not available in all regions)

Variable Displacement Piston Pump

Variable Displacement Piston Pump

Load Sensing/Flow Sharing Hydraulics

Load Sensing/Flow Sharing Hydraulics

HYDRAULICS

Smart Tech Electronic Pump

Accumulator

Smart Tech Electronic Pump

Automatic Swing Brake

Accumulator

Auxiliary Line Quick Disconnects

Automatic Swing Brake

One and Two Way Auxiliary Flow

Auxiliary Hydraulic Lines

Continuous Auxiliary Flow

One and Two Way Auxiliary Flow

Auxiliary Hydraulic Lines

Continuous Auxiliary Flow

Auxiliary Line Quick Disconnects

OPERATOR ENVIRONMENT

Tilt-up Canopy or Tilt-Up Cab

Stick Steer Mode

Tilt-up Canopy or Tilt-Up Cab

Travel Cruise Control

Top Guard ISO 10262:1998 Level I

Control Pattern Changer (optional in some regions)

ROPS – ISO 12117-2:2008

Adjustable Wrist Rests

TOPS – ISO 12117:1997

Washable Floor Mat

Travel Pedals and Hand Levers

Stick Steer Mode
Machine Security
Travel Cruise Control
Machine Security – Standard Key with Pass Code
Control Pattern Changer (optional in some regions)
Fabric Suspension Seat (Cab only)
Adjustable Wrist Rests
Vinyl Suspension Seat (Canopy only)
Washable Floor Mat
Hydraulic Lockout – All Controls
Travel Pedals and Hand Levers
Retractable High Visibility Seat Belt (75 mm/3 in)
Machine Security
Coat Hook
Machine Security – Standard Key with Pass Code
Cup Holder
Fabric Suspension Seat (Cab only)
Storage Pocket
Vinyl Suspension Seat (Canopy only)
Skylight
Hydraulic Lockout – All Controls
Mounting Bosses for Front
Retractable High Visibility Seat Belt (75 mm/3 in)
Signaling/Warning Horn
Coat Hook
Interior Light (Cab only)
Cup Holder
Boom Light, Halogen (not available in all regions)
Storage Pocket
Utility Space for Mobile Phone
Skylight
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)
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

Tie Downs on Track Frame

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

Front Shovel Capable – Pin-On

Thumb Ready (not available in all regions)

Certified Lifting Eye (optional in some regions)

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)

GUARDING

ROPS – ISO 12117-2:2008

TOPS – ISO 12117:1997

Top Guard ISO 10262:1998 (Level I)

ELECTRICAL

12 Volt Battery
Software (machine and monitor)
Maintenance Free Battery
Lock Out/Tag Out Battery Disconnect
Signaling/Warning Horn
12 Volt Power Socket
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 Air Conditioning
Cab with Heater
Cab with Heater
Control Pattern Changer (optional in some regions)
Control Pattern Changer (optional in some regions)
No Travel Pedals and Hand Levers
No Travel Pedals and Hand Levers
Machine Security – Push to Start with Key Fob/Pass Code
Machine Security – Push to Start with Key Fob/Pass Code
Vinyl Non-Suspension Seat (Canopy only)
Vinyl Non-Suspension Seat (Canopy only)
Seat Belt Reminder System
LED Front Lights
LED Front Lights
LED Front and Rear Lights
LED Front and Rear Lights
LED Boom Light
LED Boom Light
Mirrors Left and Right
Mirrors Left and Right
Radio – Bluetooth®, Auxiliary, Microphone, USB (charging only) (Cab only)
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

UNDERCARRIAGE

Steel Track (300 mm/11.8 in wide)
Steel Track (300 mm/11.8 in wide)

Angle Blade

BOOM, STICK AND LINKAGES

Long Stick (1560 mm/61.4 in)

Long Stick (1560 mm/61.4 in)

Front Shovel Capable – Dual Lock Manual Coupler

Front Shovel Capable – Dual Lock Manual Coupler

Attachments including Couplers, Thumbs, Buckets, Augers and Hammers

Front Shovel Capable – Hydraulic Coupler

2nd Auxiliary Hydraulic Lines

2nd Auxiliary Hydraulic Lines

Boom Lowering Check Valve

Attachments including Couplers, Thumbs, Buckets, Augers and Hammers

Stick Lowering Check Valve

Boom Lowering Check Valve (Standard in Europe)

Hydraulic Quick Coupler Lines (not available in all regions)

Stick Lowering Check Valve (Standard in Europe)

Hydraulic Quick Coupler Lines (not available in all regions)

Front Shovel Capable – Hydraulic Coupler

ELECTRICAL

Battery Disconnect

Product Link PL243 (regulations apply)

Product Link PL243 (regulations apply)

Product Link PLE643 (regulations apply)

Product Link PLE643 (regulations apply)

Travel Alarm (standard in some regions)

Travel Alarm (standard in some regions)

GUARDING

Polycarbonate Half Height Front Guard (Canopy only)

Polycarbonate Front Guard (ISO 10262:1998 Level I and EN356 P5A)

Guard, Canopy

Guard, Mesh

OTHER

Bio Oil Capable

Eco Drain

Water Jacket Heater

Bio Oil Capable

Light Counterweight (100 kg/221 lb)

Eco Drain

Extra Counterweight (250 kg/551 lb)

Water Jacket Heater