

PRODUCT SPECIFICATIONS FOR 303.5 CR



ENGINE

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

WEIGHTS

Operating Weight	9239 lb
Minimum Operating Weight with Canopy*	7673 lb
EU: CE Plate Weight with Cab***	8004 lb

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.

Maximum Operating Weight with Cab** 9239 lb

Maximum Operating Weight with Canopy** 8930 lb

EU: CE Plate Weight with Canopy*** 7784 lb

Minimum Operating Weight with Cab* 7982 lb

Note (1) * Minimum Weight is based on fixed rubber tracks, operator, full fuel tank, standard stick, blade, bucket and no extra counterweight.

Note (2) **Maximum Weight is based on steel tracks, operator, full fuel tank, long stick, blade, bucket and extra counterweight.

DIMENSIONS - LONG STICK

Dig Depth 122.4 in

Track Belt/Shoe Width 11.8 in

Maximum Reach 216.9 in

O/A Track Width 70.1 in

Maximum Blade Depth 21.1 in

Tail Swing without Counterweight 35 in

Stick Length 61.4 in

Swing Bearing - Height 22.2 in

Boom Swing - Left 640 mm

Overall Shipping Length* 190.9 in

Maximum Reach - Ground Level 211.8 in

Maximum Dump Clearance 141.7 in

Tail Swing with Counterweight 37.8 in

O/A Shipping Height 97.6 in

Note *Overall Shipping Length depends on blade position during shipment.

Boom In Reach 73.2 in

Maximum Dig Height 197.6 in

Vertical Wall 94.1 in

Boom Height - Shipping Position 68.9 in

Maximum Blade Height 15.2 in

O/A Undercarriage Length 87.4 in

Boom Swing - Right 34.3 °

Ground Clearance 12.2 in

BLADE

Height 13.8 in

Width 70.1 in

DIMENSIONS - STANDARD STICK

Boom Swing - Right	34.3 °
Tail Swing with Counterweight	37.8 in
Stick Length	49.6 in
Maximum Reach - Ground Level	202 in
Boom Swing - Left	25.2 °
Maximum Reach	207.5 in
Track Belt/Shoe Width	11.8 in
Maximum Dump Clearance	137.4 in
Swing Bearing - Height	22.2 in
Boom Height - Shipping Position	59.8 in
O/A Shipping Height	97.6 in
Overall Shipping Length*	189 in
Boom In Reach	69.3 in
Note	*Overall Shipping Length depends on blade position during shipment.
Tail Swing with Extra Counterweight	39.6 in
Maximum Dig Height	193.7 in
Vertical Wall	88.6 in
Dig Depth	110.6 in

O/A Undercarriage Length	87.4 in
---------------------------------	---------

Tail Swing without Counterweight	35 in
---	-------

Maximum Blade Depth	21.1 in
----------------------------	---------

Maximum Blade Height	15.2 in
-----------------------------	---------

Ground Clearance	12.2 in
-------------------------	---------

WEIGHT INCREASE FROM MINIMUM CONFIGURATION

Cab	309 lb
------------	--------

Counterweight	221 lb
----------------------	--------

Steel Tracks	287 lb
---------------------	--------

Long Stick	44 lb
-------------------	-------

Angle Blade	353 lb
--------------------	--------

Extra Counterweight	551 lb
----------------------------	--------

SERVICE REFILL CAPACITIES

Fuel Tank	11.9 gal (US)
------------------	---------------

Hydraulic Tank	5.3 gal (US)
-----------------------	--------------

Cooling System	1.8 gal (US)
-----------------------	--------------

Engine Oil	1.6 gal (US)
-------------------	--------------

Hydraulic System	11.9 gal (US)
-------------------------	---------------

TRAVEL SYSTEM

Ground Pressure - Minimum Weight	4.3 psi
---	---------

Maximum Traction Force - High Speed	3799 lbf
--	----------

Maximum Traction Force - Low Speed	6969 lbf
---	----------

Travel Speed - High	2.8 mile/h
----------------------------	------------

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

Travel Speed - Low	1.6 mile/h
---------------------------	------------

Ground Pressure - Maximum Weight	5.2 psi
---	---------

HYDRAULIC SYSTEM

Pump Flow at 2,400 rpm	26 gal/min
-------------------------------	------------

Auxiliary Circuit - Primary - Flow	18 gal/min
---	------------

Operating Pressure - Swing	2625 psi
-----------------------------------	----------

Type	Load Sensing Hydraulics with Variable Displacement Piston Pump
-------------	--

Auxiliary Circuit - Secondary - Pressure	3553 psi
---	----------

Digging Force - Stick - Long	3799 lbf
-------------------------------------	----------

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

Digging Force - Bucket	7419 lbf
-------------------------------	----------

Operating Pressure - Travel	3553 psi
------------------------------------	----------

Operating Pressure - Equipment	3553 psi
---------------------------------------	----------

Auxiliary Circuit - Primary - Pressure	3553 psi
---	----------

Digging Force - Stick - Standard	4249 lbf
---	----------

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

SOUND

Note	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
----------------------------	---------

Boom Swing - Right	50 °
---------------------------	------

Boom Swing - Left	75 °
--------------------------	------

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
--	---------

SUSTAINABILITY

Recyclability	95%
----------------------	-----

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