

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. 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.
Note (2)	
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