

# PRODUCT SPECIFICATIONS FOR 302.7 CR



## ENGINE

<b>Net Power</b>	23.6 HP
<b>Engine Model</b>	C1.1 Turbo
<b>Net Power - 2,400 rpm - ISO 9249, 80/1269/EEC</b>	23.6 HP
<b>Note</b>	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.
<b>Bore</b>	3 in
<b>Displacement</b>	69 in <sup>3</sup>
<b>Emissions</b>	Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
<b>Stroke</b>	3.2 in
<b>Gross Power - 2,400 rpm - SAE J1995:2014</b>	24.7 HP

## WEIGHTS

<b>Minimum Operating Weight with Canopy*</b>	5645 lb
<b>Maximum Operating Weight with Canopy**</b>	6450 lb
<b>Minimum Operating Weight with Cab*</b>	5909 lb
<b>EU: CE Plate Weight with Canopy***</b>	5942 lb

**EU: CE Plate Weight with Cab\*\*\*** 6174 lb

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

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

**Maximum Operating Weight with Cab\*\*** 6725 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.

## WEIGHT INCREASE FROM MINIMUM CONFIGURATION

**Long Stick** 33 lb

**Steel Tracks** 221 lb

**Cab** 276 lb

**Counterweight (extra)** 551 lb

**Counterweight (light)** 221 lb

## TRAVEL SYSTEM

**Ground Pressure - Maximum Weight** 4.2 psi

**Ground Pressure - Minimum Weight** 3.5 psi

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

**Gradeability - Maximum** 30 degrees

**Maximum Traction Force - High Speed** 3507 lbf

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

Maximum Traction Force - Low Speed

6025 lbf

## SERVICE REFILL CAPACITIES

Hydraulic System	9.2 gal (US)
Hydraulic Tank	4.8 gal (US)
Fuel Tank	11.9 gal (US)
Engine Oil	1.1 gal (US)
Cooling System	1.1 gal (US)

## HYDRAULIC SYSTEM

Digging Force - Stick - Standard	3102 lbf
Auxiliary Circuit - Primary - Pressure	3553 psi
Operating Pressure - Swing	2553 psi
Auxiliary Circuit - Secondary - Flow	7 gal/min
Auxiliary Circuit - Primary - Flow	17 gal/min
Auxiliary Circuit - Secondary - Pressure	3553 psi
Operating Pressure - Equipment	3553 psi
Digging Force - Stick - Long	2765 lbf
Digging Force - Bucket	5238 lbf
Operating Pressure - Travel	3553 psi

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

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

**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 Degrees

**Boom Swing - Right** 50 Degrees

## BLADE

**Height** 12.6 in

**Width** 61.8 in

## CERTIFICATION - CAB AND CANOPY

**Top Guard** ISO 10262:1998 (Level I)

**Tip Over Protective Structure (TOPS)** ISO 12117:1997

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

## 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"

## DIMENSIONS - STANDARD STICK

**Overall Shipping Length\*** 166.9 in

<b>Boom In Reach</b>	67.3 in
<b>O/A Shipping Height</b>	97.6 in
<b>Swing Bearing - Height</b>	22 in
<b>Stick Length</b>	41.7 in
<b>Maximum Reach</b>	183.5 in
<b>Maximum Dump Clearance</b>	116.1 in
<b>Maximum Dig Height</b>	168.1 in
<b>Tail Swing without Counterweight</b>	30.5 in
<b>Tail Swing with Extra Counterweight</b>	35 in
<b>Boom Swing - Right</b>	32.7 in
<b>O/A Undercarriage Length</b>	79.1 in
<b>Vertical Wall</b>	73.6 in
<b>Note</b>	*Overall Shipping Length depends on blade position during shipment.
<b>Maximum Reach - Ground Level</b>	177.6 in
<b>Dig Depth</b>	98.8 in
<b>Track Belt/Shoe Width</b>	11.8 in
<b>Maximum Blade Height</b>	15.6 in
<b>Maximum Blade Depth</b>	20.3 in

<b>Boom Swing - Left</b>	23.8 in
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<b>Ground Clearance</b>	12.2 in
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<b>Boom Height - Shipping Position</b>	61.4 in
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<b>Tail Swing - with Light Counterweight</b>	33.3 in
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## **DIMENSIONS - LONG STICK**

<b>Dig Depth</b>	106.7 in
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<b>Boom Height - Shipping Position</b>	65 in
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<b>Boom Swing - Right</b>	32.7 in
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<b>Maximum Reach - Ground Level</b>	185.4 in
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<b>Maximum Blade Height</b>	15.6 in
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<b>Maximum Reach</b>	190.9 in
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<b>Boom Swing - Left</b>	23.8 in
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<b>Maximum Blade Depth</b>	20.3 in
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<b>O/A Shipping Height</b>	97.6 in
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<b>Maximum Dig Height</b>	172.8 in
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<b>Stick Length</b>	49.6 in
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<b>Tail Swing without Counterweight</b>	30.5 in
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<b>Boom In Reach</b>	68.1 in
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<b>Maximum Dump Clearance</b>	120.9 in
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**Swing Bearing - Height** 22 in

**Vertical Wall** 80.7 in

**O/A Undercarriage Length** 79.1 in

**Ground Clearance** 12.2 in

**Track Belt/Shoe Width** 11.8 in

**Overall Shipping Length\*** 168.5 in

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

**Tail Swing - with Extra Counterweight** 35 in

**Track Width** 61.8 in

**Tail Swing - with Light Counterweight** 33.3 in

## SUSTAINABILITY

**Recyclability** 95%

## 302.7 CR STANDARD EQUIPMENT

### ENGINE

Cat® C1.1 Turbo 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  
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 (300 mm/11.8 in wide)  
Dozer Blade  
Dozer Blade Float  
Tie Downs on Track Frame



## **BOOM, STICK AND LINKAGES**

One Piece Boom (2085 mm/82.1 in)  
Standard Stick (1060 mm/41.7 in)  
Front Shovel Capable  
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  
Battery Disconnect  
Signaling/Warning Horn  
12 Volt Power Socket

## **302.7 CR OPTIONAL EQUIPMENT**

## **OPERATOR ENVIRONMENT**

Cab with Air Conditioning  
Cab with Heater  
No Travel Pedals and Hand Levers (optional in some regions)  
Push to Start with Key Fob/Pass Code  
Vinyl Non-Suspension Seat (Canopy only) (not available in all regions)  
LED Front Lights  
LED Front and Rear Lights  
LED Boom Light  
Mirrors Left and Right  
Radio – Bluetooth®, Auxiliary, Microphone, USB (charging only) (Cab only)  
Next Generation Advanced Monitor  
– Touchscreen  
– Site Reference System  
– High Definition Camera Capable (IP68 and IP69K)  
– Numeric Security Code

## **UNDERCARRIAGE**

Steel Track (300 mm/11.8 in wide)

## **BOOM, STICK AND LINKAGES**

Long Stick (1260 mm/49.6 in)  
Front Shovel Capable – Dual Lock Manual 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 (not available in all regions)

## **ELECTRICAL**

Product Link PL243 (regulations apply)

Product Link PLE643 (regulations apply)

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)

## **OTHER**

Bio Oil Capable

Eco Drain

Water Jacket Heater

Light Counterweight (100 kg/221 lb)

Extra Counterweight (250 kg/551 lb)