

PRODUCT SPECIFICATIONS FOR 302.7 CR

ENGINE

Net Power 23.6 HP 17.6 kW

Engine Model C1.1 Turbo C1.1 Turbo

**Net Power -
2,400 rpm - ISO
9249,
80/1269/EEC** 23.6 HP 17.6 kW

Note 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. 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.

Bore 3 in 77 mm

Displacement 69 in³ 1.1 l

Emissions Meets U.S. EPA Tier 4 Final and EU Stage V emission standards. Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.

Stroke 3.2 in 81 mm

**Gross Power -
2,400 rpm - SAE
J1995:2014** 24.7 HP 18.4 kW

WEIGHTS

**Operating
Weight** 6703 lb 3040 kg

Minimum Operating Weight with Canopy* 5612 lb 2545 kg

Maximum Operating Weight with Canopy** 6439 lb 2920 kg

Minimum Operating Weight with Cab* 5887 lb 2670 kW

EU: CE Plate Weight with Canopy*** 5908 lb 2680 kg

EU: CE Plate Weight with Cab*** 6151 lb 2790 kg

Note (2) **Maximum Weight is based on steel tracks, operator, full fuel tank, long stick, blade, bucket and extra counterweight. **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. *Minimum Weight is based on rubber tracks, operator, full fuel tank, standard stick, blade, bucket and no extra counterweight.

Maximum Operating Weight with Cab** 6703 lb 3040 kg

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. ***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 15 kg
Steel Tracks	221 lb 100 kg
Cab	276 lb 125 kg
Counterweight (extra)	551 lb 250 kg
Counterweight (light)	221 lb 100 kg

TRAVEL SYSTEM

Ground Pressure - Maximum Weight	4.2 psi 29 kPa
Ground Pressure - Minimum Weight	3.5 psi 24.2 kPa
Travel Speed - Low	1.6 mile/h 2.6 km/h
Gradeability - Maximum	30 degrees 30 degrees
Maximum Traction Force - High Speed	3507 lbf 15.6 kN
Travel Speed - High	2.8 mile/h 4.5 km/h
Maximum Traction Force - Low Speed	6025 lbf 26.8 kN

SERVICE REFILL CAPACITIES

Hydraulic System	9.2 gal (US) 35 l
Hydraulic Tank	4.8 gal (US) 18 l
Fuel Tank	11.9 gal (US) 45 l

Engine Oil

1.1 gal (US) 4 l

Cooling System

1.1 gal (US) 4 l

HYDRAULIC SYSTEM

**Digging Force -
Stick - Standard**

3102 lbf 13.8 kN

**Auxiliary Circuit -
Primary -
Pressure**

3553 psi 245 bar

**Operating
Pressure - Swing**

2553 psi 176 bar

**Auxiliary Circuit -
Secondary - Flow**

7 gal/min 25 l/min

**Auxiliary Circuit -
Primary - Flow**

17 gal/min 65 l/min

**Auxiliary Circuit -
Secondary -
Pressure**

3553 psi 245 bar

**Operating
Pressure -
Equipment**

3553 psi 245 bar

**Digging Force -
Stick - Long**

2765 lbf 12.3 kN

**Digging Force -
Bucket**

5238 lbf 23.3 kN

**Operating
Pressure - Travel**

3553 psi 245 bar

Pump Flow at 2,400 rpm 26 gal/min 100 l/min

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

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

SWING SYSTEM

Machine Swing Speed 9 r/min 9 r/min

Boom Swing - Left 75 Degrees 75 Degrees

Boom Swing - Right 50 Degrees 50 Degrees

BLADE

Height 12.6 in 320 mm

Width 59.1 in 1500 mm

CERTIFICATION - CAB AND CANOPY

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

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

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

SOUND

Operator Sound Pressure (ISO 6396:2008) 78 dB(A) 78 dB(A)

Average Exterior Sound Pressure (ISO 6395:2008)	94 dB(A) 94 dB(A)
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Note	European Union Directive "2000/14/EC" European Union Directive "2000/14/EC"
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DIMENSIONS - STANDARD STICK

Overall Shipping Length*	166.9 in 4240 mm
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Boom In Reach	67.3 in 1710 mm
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O/A Shipping Height	97.6 in 2480 mm
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Swing Bearing - Height	22 in 560 mm
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Stick Length	41.7 in 1060 mm
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Maximum Reach	183.5 in 4660 mm
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Maximum Dump Clearance	116.1 in 2950 mm
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Maximum Dig Height	168.1 in 4270 mm
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Tail Swing without Counterweight	30.5 in 775 mm
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Tail Swing with Extra Counterweight	35 in 890 mm
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Boom Swing - Right	32.7 in 830 mm
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O/A Undercarriage Length	79.1 in 2010 mm
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Vertical Wall	73.6 in 1870 mm
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Note	*Overall Shipping Length depends on blade position during shipment. *Overall Shipping Length depends on blade position during shipment.
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Maximum Reach - Ground Level	177.6 in 4510 mm
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Dig Depth	98.8 in 2510 mm
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Track Belt/Shoe Width	11.8 in 300 mm
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Maximum Blade Height	15.6 in 395 mm
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Maximum Blade Depth	20.3 in 515 mm
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Boom Swing - Left	23.8 in 605 mm
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Ground Clearance	12.2 in 310 mm
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Boom Height - Shipping Position	61.4 in 1560 mm
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Tail Swing - with Light Counterweight	33.3 in 845 mm
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DIMENSIONS - LONG STICK

Dig Depth	106.7 in 2710 mm
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**Boom Height -
Shipping Position** 65 in 1650 mm

Boom Swing - Right 32.7 in 830 mm

**Maximum Reach -
Ground Level** 185.4 in 4710 mm

**Maximum Blade
Height** 15.6 in 395 mm

Maximum Reach 190.9 in 4850 mm

Boom Swing - Left 23.8 in 605 mm

**Maximum Blade
Depth** 20.3 in 515 mm

O/A Shipping Height 97.6 in 2480 mm

**Maximum Dig
Height** 172.8 in 4390 mm

Stick Length 49.6 in 1260 mm

**Tail Swing without
Counterweight** 30.5 in 775 mm

Boom In Reach 68.1 in 1730 mm

**Maximum Dump
Clearance** 120.9 in 3070 mm

**Swing Bearing -
Height** 22 in 560 mm

Vertical Wall 80.7 in 2050 mm

O/A Undercarriage Length 79.1 in 2010 mm

Ground Clearance 12.2 in 310 mm

Track Belt/Shoe Width 11.8 in 300 mm

Overall Shipping Length* 168.5 in 4280 mm

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

Tail Swing - with Extra Counterweight 35 in 890 mm

Track Width 59.1 in 1500 mm

Tail Swing - with Light Counterweight 33.3 in 845 mm

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)
Gauges

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

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)

CE MARK

OTHER

Bio Oil Capable

Eco Drain

Water Jacket Heater

Light Counterweight (100 kg/221 lb)

Extra Counterweight (250 kg/551 lb)