

# Cat®
# 301 CR

## Mini Excavator

**Features:**

The Cat® 301 CR Mini Excavator is value focused and an easy to use model delivering power and performance in a compact size to help you work in a wide range of applications.

### OPERATOR COMFORT

- Seat mounted joystick controls, adjustable wrist rests, foldable foot pedals and more leg room than previous models help keep you working comfortably all day long.

### EASY TO OPERATE

- Pilot controls are simple and intuitive for controlling boom, stick, bucket and house swing. Gauge cluster is centrally located displaying fuel level, hour meter, coolant level and temperature.

### BIG PERFORMANCE IN A COMPACT DESIGN

- The compact radius design lets you access and work in the tightest areas. The 301 CR features a Cat C1.1 engine delivering 25% more power and increased travel speed. A wider expanded undercarriage improves stability, and the machine also features higher breakout forces and improved dig depth and pump flow.*

** Versus previous models with comparable specifications.*

### SAFETY ON THE JOB SITE

- Certified foldable rollover protection structure (ROPS) mounted on the front of machine allows fitting of a guard for extra operator protection during hammer use. Structure easily folds down for travel through height restricted openings. Visual seatbelt reminder alerts operator to buckle up while operating equipment, helping to reduce the risk of accidents.

### SIMPLE SERVICE FOR LESS DOWNTIME

- Maintenance is quick and easy on the Cat mini excavator. Routine check points are easy to access at ground level through the side doors. The tilt up seat lets you reach additional service areas when needed.

### COMMON PLATFORM

- Cat designed components and parts support commonality and service efficiency. Equipped with VisionLink™ technology, monitor hours and location, including other machines in your fleet.

### UNMATCHED DEALER SUPPORT

- Your independent Cat dealer is here to help you reach your business goals. From providing equipment solutions to operator training, a worldwide parts network, service needs and beyond, your Cat dealer is ready to help.

CAT®

# Specifications

## Engine

| | | |
|---|---|---|
| Engine Model | Cat C1.1 | |
| **Net Power** | | |
| ISO 9249:2007 (80/1269/EEC) | 11.7 kW | 15.7 hp |
| ISO 9249:2007 (DIN) | 15.9 mhp (PS) | |
| **Engine Power** | | |
| ISO 14396:2002 | 12 kW | 16.1 hp |
| ISO 14396:2002 (DIN) | 16.3 mhp (PS) | |
| Bore | 77.0 mm | 3.0 in |
| Stroke | 81.0 mm | 3.2 in |
| Displacement | 1.1 L | 69.0 $in^3$ |

- Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Net power advertised is the power available at the flywheel when the engine is at rated speed of 1,900 rpm power when the engine is installed with the factory configured fan, air intake system, exhaust system, and alternator with a minimum alternator load.

## Weights

| | | |
|---|---|---|
| Operating Weight with ROPS | 1230 kg | 2,712 lb |
| EU: CE Plate Weight* | 1229 kg | 2,709 lb |

Weight is based on rubber tracks, operator and full fuel tank.

*CE Plate Weight is based on the most common EU configuration. Includes 75 kg (165 lb) operator and full fuel tank and excludes bucket.

## Travel System

| | | |
|---|---|---|
| Travel Speed – High | 3.6 km/h | 2.2 mph |
| Travel Speed – Low | 1.8 km/h | 1.1 mph |
| Maximum Traction Force – High Speed | 5.2 kN | 1,169 lbf |
| Maximum Traction Force – Low Speed | 11.2 kN | 2,517.9 lbf |
| Ground Pressure – Minimum Weight | 30.3 kPa | 4.4 psi |
| Ground Pressure – Maximum Weight | 33.8 kPa | 4.9 psi |
| Gradeability (maximum) | 30 degrees | |

## Service Refill Capacities

| | | |
|---|---|---|
| Cooling System | 4 L | 1.1 gal |
| Engine Oil | 3 L | 0.8 gal |
| Fuel Tank | 13 L | 3.4 gal |
| Hydraulic Tank | 13.4 L | 3.5 gal |
| Hydraulic System | 21 L | 5.5 gal |

## Hydraulic System

| | | |
|---|---|---|
| Fixed Displacement Pump | | |
| Pump Flow @1,900 rpm | 23.8 L/min | 6.3 gal/min |
| Operating Pressure – Equipment | 204 bar | 2,958.8 psi |
| Operating Pressure – Travel | 204 bar | 2,958.8 psi |
| Operating Pressure – Swing | 90 bar | 1,305.3 psi |
| Auxiliary Circuit – Primary | | |
| Flow | 20.9 L/min | 5.5 gal/min |
| Pressure | 204 bar | 2,958.8 psi |
| Auxiliary Circuit – Secondary | | |
| Flow | 10.5 L/min | 2.8 gal/min |
| Pressure | 204 bar | 2,958.8 psi |
| Digging Force – Stick (standard) | 6.2 kN | 1,393.8 lbf |
| Digging Force – Bucket | 9.6 kN | 2,158.2 lbf |

## Swing System

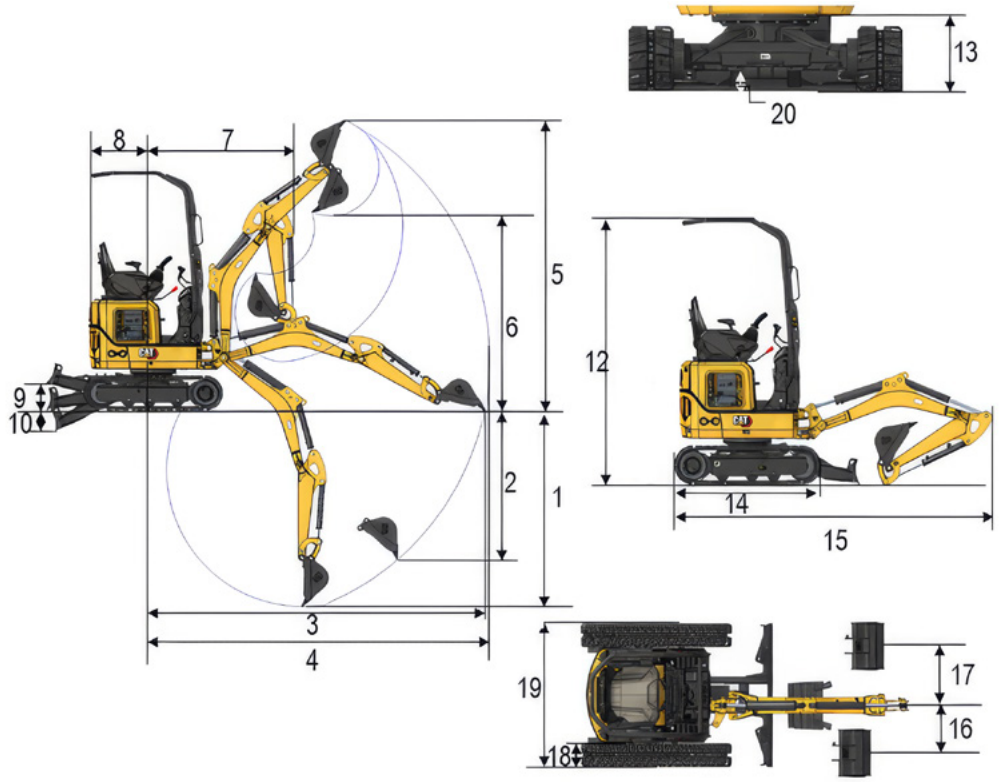
| | | |
|---|---|---|
| Machine Swing Speed | 8.3 rpm | |

## Blade

| | | |
|---|---|---|
| Width | 1100 mm | 43.3 in |
| Height | 220 mm | 8.7 in |

## Certification – Canopy

| | |
|---|---|
| Roll Over Protective Structure (ROPS) | ISO 12117-2:2008 |
| Tip Over Protective Structure (TOPS) | ISO 12117:1997 |




## Dimensions

| | | Standard Stick |
|---|---|---|
| **1** | Dig Depth | 1820 mm (71.7 in) |
| **2** | Vertical Wall | 1380 mm (54.3 in) |
| **3** | Maximum Reach at Ground Level | 3090 mm (121.7 in) |
| **4** | Maximum Reach | 3150 mm (124 in) |
| **5** | Maximum Dig Height | 2700 mm (106.3 in) |
| **6** | Maximum Dump Clearance | 1820 mm (71.7 in) |
| **7** | Boom in Reach | 1350 mm (53.1 in) |
| **8** | Tail Swing | 600 mm (23.6 in) |
| **9** | Maximum Blade Height | 245 mm (9.6 in) |
| **10** | Maximum Blade Depth | 200 mm (7.9 in) |
| **11** | Boom Height in Shipping Position | 950 mm (37.4 in) |
| **12** | Overall Shipping Height (ROPS) | 2240 mm (88.2 in) |
| **13** | Swing Bearing Height | 395 mm (15.6 in) |
| **14** | Overall Undercarriage Length | 1300 mm (51.2 in) |
| **15** | Overall Shipping Length | 2820 mm (111 in) |
| **16** | Boom Swing Right | 58 degrees |
| **17** | Boom Swing Left | 61 degrees |
| **18** | Track Belt/Shoe Width | 180 mm (7.1 in) |
| **19** | Track Width | |
| | Retracted | 730 mm (28.7 in) |
| | Expanded | 1100 mm (43.3 in) |
| **20** | Minimum Ground Clearance Below Undercarriage | 120 mm (4.7 in) |
| **21** | Stick Length | 810 mm (31.9 in) |

## Lift Capacities – Minimum Configuration

| Lift Point Height | | | 1.5 m (4.9 ft) | | | 2 m (6.6 ft) | | | Lift Point Radius (Maximum) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Over Front | | | Over Front | | | Over Front | | | |
| | | | Blade Up | Blade Down | Over Side | Blade Up | Blade Down | Over Side | Blade Up | Blade Down | Over Side | m (ft) |
| 4.5 m (14.8 ft) | Standard Stick | kg (lb) | | | | 224 (494) | 357 (787) | 112 (247) | 218 (481) | 367 (809) | 109 (246) | 2.04 (6.6) |
| 3 m (9.8 ft) | Standard Stick | kg (lb) | | | | 225 (496) | 321 (708) | 113 (249) | 164 (362) | 330 (728) | 80 (176) | 2.43 (7.9) |
| 1.5 m (4.9 ft) | Standard Stick | kg (lb) | 342 (754) | 440 (970) | 166 (366) | 219 (483) | 399 (880) | 108 (238) | 144 (317) | 321 (708) | 68 (150) | 2.63 (8.6) |
| 0 m (0 ft) | Standard Stick | kg (lb) | 307 (677) | 800 (1,764) | 137 (302) | 204 (450) | 503 (1,109) | 94 (207) | 140 (309) | 311 (686) | 65 (143) | 2.63 (8.6) |

Minimum weight includes rubber tracks, handrail, operator, full fuel tank, no counterweight, no bucket and retracted undercarriage.

## Lift Capacities – Maximum Configuration

| Lift Point Height | | | 1.5 m (4.9 ft) | | | 2 m (6.6 ft) | | | Lift Point Radius (Maximum) | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Over Front | | | Over Front | | | Over Front | | | |
| | | | Blade Up | Blade Down | Over Side | Blade Up | Blade Down | Over Side | Blade Up | Blade Down | Over Side | m (ft) |
| 4.5 m (14.8 ft) | Standard Stick | kg (lb) | | | | 227 (500) | 357 (787) | 234 (516) | 221 (487) | 367 (809) | 228 (503) | 2.04 (6.6) |
| 3 m (9.8 ft) | Standard Stick | kg (lb) | | | | 228 (503) | 321 (708) | 235 (518) | 167 (368) | 330 (728) | 173 (381) | 2.43 (7.9) |
| 1.5 m (4.9 ft) | Standard Stick | kg (lb) | 347 (765) | 440 (970) | 356 (785) | 223 (492) | 399 (880) | 229 (505) | 146 (322) | 321 (708) | 151 (333) | 2.63 (8.6) |
| 0 m (0 ft) | Standard Stick | kg (lb) | 312 (688) | 800 (1,764) | 321 (708) | 207 (456) | 503 (1,109) | 214 (472) | 142 (313) | 311 (686) | 147 (324) | 2.63 (8.6) |

Maximum weight includes rubber track, ROPS, operator, full fuel tank, counterweight, no bucket and expanded undercarriage..

## Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

| | Standard | Optional |
|---|---|---|
| **ENGINE** | | |
| Cat C1.1 Engine (U.S. EPA Tier 4 Final/ EU Stage V) | ✓ | |
| Fuel Water Separator | ✓ | |
| Travel, two speed | ✓ | |
| **HYDRAULICS** | | |
| Accumulator | ✓ | |
| Brake, automatic swing | ✓ | |
| Displacement pump, fixed | ✓ | |
| Hydraulic flow, one and two way auxiliary | ✓ | |
| Hydraulic lines quick disconnects, auxiliary | ✓ | |
| Hydraulic lines, 2nd auxiliary | | ✓ |
| Hydraulic lines, auxiliary | ✓ | |
| Joystick controls, pilot | ✓ | |
| **OPERATOR ENVIRONMENT *(continued)*** | | |
| Gauge, multi-function | ✓ | |
| - Clock, digital | ✓ | |
| - Coolant Temperature | ✓ | |
| - Fuel Level | ✓ | |
| - Hour Meter | ✓ | |
| Floor mat, washable | ✓ | |
| Front guard mounts | ✓ | |
| Horn, signaling/warning | ✓ | |
| Hydraulic lockout, all controls | ✓ | |
| Key, standard | ✓ | |
| Light, boom, LED | ✓ | |
| Pattern changer, control | ✓ | |
| ROPS, Foldable | ✓ | |
| ROPS - ISO 12117-2:2008 | ✓ | |
| TOPS - ISO 12117:1997 | ✓ | |
| Seat, vinyl non-suspension | ✓ | |
| Seatbelt, (50 mm/2 in) hi-visibility, retractable with reminder | ✓ | |
| Storage pocket | ✓ | |
| Wrist rests, adjustable | ✓ | |

| | Standard | Optional |
|---|---|---|
| **UNDERCARRIAGE** | | |
| Belt, rubber (180 mm/7 in) | ✓ | |
| Blade, dozer | ✓ | |
| Tie downs on track frame | ✓ | |
| Undercarriage, expandable | ✓ | |
| **BOOM, STICK AND LINKAGES** | | |
| Attachments including couplers, buckets, augers and hammers | | ✓ |
| Boom, one piece (1850 mm/73 in) | ✓ | |
| Coupler, manual | | ✓ |
| Pin on bucket | ✓ | |
| Stick, standard (810 mm/31.9 in) | ✓ | |
| **ELECTRICAL** | | |
| Alarm, travel (standard in some regions) | ✓ | |
| Battery disconnect | ✓ | |
| Battery, maintenance free, 12V | ✓ | |
| Horn, signaling/warning | ✓ | |
| Power socket, 12V | ✓ | |
| VisionLink™ | ✓ | |
| **GUARDING** | | |
| Front guard, polycarbonate | | ✓ |
| **OTHER** | | |
| Beacon | | ✓ |
| Bio Oil Capable | | ✓ |

# 301 CR Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit https://www.caterpillar.com/en/company/sustainability.

## Engine

- The Cat C1.1 engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to:
  - ✓ 20% biodiesel FAME (fatty acid methyl ester)
  - ✓ 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels

  Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

## Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
  - Barium < 100 PPM
  - Cadmium < 1 PPM
  - Chromium < 5 PPM
  - Lead < 5 PPM

## Sound Performance

Exterior Sound Power Level 93 dB(A) (ISO 6395:2008)

The labeled sound power level for the CE and UK marked configurations when measured according to the test procedure and conditions specified in 2000/14/EC and UK Noise Regulation 2001 No. 1701.

## Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

## Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
  - VisionLink™ monitors hours and location.
  - Expandable and Retractable Undercarriage expands to 1100 mm (43.3 in) offering increased stability and retracts to 730 mm (28.7 in) to squeeze through tight areas.

## Recycling

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

| Material Type | Weight Percentage |
|---|---|
| Steel | 70.35 |
| Iron | 14.00 |
| Rubber Track | 4.8 |
| Fluid | 3.92 |
| Nonferrous Metal | 2.10 |
| Plastic | 1.49 |
| Mixed-Metal & Nonmetal | 1.31 |
| Other | 0.70 |
| Uncategorized | 0.49 |
| Mixed Metal | 0.48 |
| Rubber | 0.37 |
| Total | 100 |

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714 (Earthmoving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused, or both.

  All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

  Because of variations of product configurations, the following value in the table may vary..

| |
|---|
| Recyclability – 95% |

The data provided above was based on the product configuration as provided by the individual product group.

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at **www.cat.com**

© 2026 Caterpillar
All rights reserved

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Corporate Yellow," the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

AEHQ8654-00 (9-2026)
Build Number: 05A
(Global excluding Brazil, China and Japan)