Features:
The Cat® 309 CR Mini Excavator delivers maximum power and performance in a mini size to help you work in a wide range of applications.

All Day Comfort
- A sealed and pressurized cab is equipped with an improved air conditioning system, adjustable wrist rests and a suspension seat to help keep you working comfortably all day long.

Easy to Operate
- Controls are easy to use and the intuitive Next Generation Monitor provides customizable machine operator preferences and easy to read machine information.

Stick Steer Travel Mode
- Moving around the job site is even easier with the Cat Stick Steer option. Easily switch from traditional travel controls with levers and pedals to joystick controls with a push of a button. The benefit of less effort and improved control is in your hands!

Big Performance in a Mini Design
- Increased lifting, swinging, travel and multi-functioning performance helps you get the job done more efficiently, and dig-to-blade allows for easy clean up.

Safety on the Job Site
- Your safety is our top priority. The Cat Mini Excavator is designed to help keep you safe on the job. A back-up camera, courtesy work lights and a fluorescent retractable seat belt are just a few of the safety features we’ve built into the machine.

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 with grouped service points and robust service panels.

Lower Operating Costs
- Equipped with features such as auto idle, auto engine shutdown, and efficient hydraulics with a variable displacement pump, the Cat Mini Excavator was designed with reducing your operating costs in mind.

Unmatched Dealer Support
- Your Cat dealer is here to help you reach your business goals. From providing equipment solutions to operator training to service needs and beyond, your Cat dealer is ready to help.

Specifications†

<table>
<thead>
<tr>
<th>Engine</th>
<th>Engine Model</th>
<th>Cat C3.3B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Net Power @ 2,200 rpm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>U.S. EPA Tier 4 Final</td>
<td>52.4 kW</td>
<td>70.3 hp</td>
</tr>
<tr>
<td>EU Stage V</td>
<td>53.3 kW</td>
<td>71.5 hp</td>
</tr>
<tr>
<td>ISO 9249/EEC 80/1269</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Gross Power</td>
<td>ISO 14396</td>
<td>55.4 kW</td>
</tr>
<tr>
<td>Bore</td>
<td>94 mm</td>
<td>3.7 in</td>
</tr>
<tr>
<td>Stroke</td>
<td>120 mm</td>
<td>4.7 in</td>
</tr>
<tr>
<td>Displacement</td>
<td>3.33 L</td>
<td>203 in³</td>
</tr>
</tbody>
</table>

| Weights | Minimum Operating Weight with Cab* | 8950 kg | 19,735 lb |
|---------| Maximum Operating Weight with Cab** | 9565 kg | 21,091 lb |

*Minimum Weight is based on steel tracks, no counterweight, operator, full fuel tank, standard stick, blade and no bucket.
**Maximum Weight is based on steel tracks with rubber pads, counterweight, operator, full fuel tank, long stick, blade and no bucket.

Weight Increase from Minimum Configuration
- Counterweight 250 kg 552 lb
- Long Stick 66 kg 146 lb
- Steel Tracks with Pads 330 kg 728 lb

†The 309 CR specifications are based on a machine configured with a Long (L) Undercarriage. For specifications representing a 309 CR with a Standard Undercarriage, please refer to the 308 CR information.
309 CR Mini Hydraulic Excavator

Travel System
- **Travel Speed – High**: 4.9 km/h (3.1 mph)
- **Travel Speed – Low**: 2.6 km/h (1.6 mph)
- **Maximum Traction Force – High Speed**: 28.9 kN (6,497 lbf)
- **Maximum Traction Force – Low Speed**: 84.8 kN (19,064 lbf)
- **Ground Pressure – Minimum Weight**: 34.7 kPa (5.0 psi)
- **Ground Pressure – Maximum Weight**: 37.1 kPa (5.4 psi)
- **Gradeability (maximum)**: 30 degrees

Service Refill Capacities
- **Cooling System**: 10.0 L (2.6 gal)
- **Engine Oil**: 11.2 L (3.0 gal)
- **Fuel Tank**: 147 L (39 gal)
- **Hydraulic Tank**: 53 L (14 gal)
- **Hydraulic System**: 110 L (29 gal)

Hydraulic System
- **Load Sensing Hydraulics with Variable Displacement Piston Pump**
  - **Pump Flow @ 2,400 rpm**: 233 L/min (62 gal/min)
  - **Operating Pressure – Equipment**: 285 bar (4,134 psi)
  - **Operating Pressure – Travel**: 285 bar (4,134 psi)
  - **Operating Pressure – Swing**: 250 bar (3,626 psi)
  - **Auxiliary Circuit – Primary (High Flow)**
    - **Flow**: 140 L/min (37 gal/min)
    - **Pressure**: 285 bar (4,134 psi)
  - **Auxiliary Circuit – Secondary**
    - **Flow**: 33 L/min (9 gal/min)
    - **Pressure**: 285 bar (4,134 psi)
  - **Digging Force – Stick (Standard)**: 42.3 kN (9,500 lbf)
  - **Digging Force – Stick (Long)**: 35.7 kN (8,023 lbf)
  - **Digging Force – Bucket**: 62.0 kN (13,943 lbf)

Swing System
- **Machine Swing Speed**: 10.6 rpm
- **Boom Swing – Left**: 60 degrees
- **Boom Swing – Right**: 50 degrees

Blade
- **Width (Standard)**: 2470 mm (97 in)
- **Width (Wide)**: 2640 mm (104 in)
- **Height**: 431 mm (17 in)

Certification – Cab
- **Tip Over Protective Structure (TOPS)**: ISO 12117:1997
- **Top Guard**: ISO 10262:1998 (Level II)

Sound
- **Operator Sound Pressure (ISO 6396:2008)**: 72 dB(A)
- **Average Exterior Sound Pressure (ISO 6395:2008)**: 99 dB(A)
- **European Union Directive “2000/14/EC”**

Dimensions

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Standard Stick</th>
<th>Long Stick</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Dig Depth</td>
<td>4058 mm (160 in)</td>
<td>4593 mm (181 in)</td>
</tr>
<tr>
<td>2 Vertical Wall</td>
<td>2941 mm (116 in)</td>
<td>3354 mm (132 in)</td>
</tr>
<tr>
<td>3 Maximum Reach at Ground Level</td>
<td>6930 mm (273 in)</td>
<td>7449 mm (293 in)</td>
</tr>
<tr>
<td>4 Maximum Reach</td>
<td>7141 mm (281 in)</td>
<td>7637 mm (301 in)</td>
</tr>
<tr>
<td>5 Maximum Dig Height</td>
<td>3786 mm (149 in)</td>
<td>7089 mm (279 in)</td>
</tr>
<tr>
<td>6 Maximum Dump Clearance</td>
<td>4810 mm (189 in)</td>
<td>5122 mm (202 in)</td>
</tr>
<tr>
<td>7 Boom in Reach</td>
<td>3059 mm (120 in)</td>
<td>3215 mm (127 in)</td>
</tr>
<tr>
<td>8 Tail Swing</td>
<td>1645 mm (65 in)</td>
<td>1645 mm (65 in)</td>
</tr>
<tr>
<td>9 Maximum Blade Height</td>
<td>355 mm (14 in)</td>
<td>355 mm (14 in)</td>
</tr>
<tr>
<td>10 Maximum Blade Depth</td>
<td>671 mm (26 in)</td>
<td>671 mm (26 in)</td>
</tr>
<tr>
<td>11 Transport Height</td>
<td>2487 mm (98 in)</td>
<td>2514 mm (99 in)</td>
</tr>
<tr>
<td>12 Cab Height</td>
<td>2607 mm (100 in)</td>
<td>2607 mm (100 in)</td>
</tr>
<tr>
<td>13 Swing Bearing Height</td>
<td>795 mm (31 in)</td>
<td>795 mm (31 in)</td>
</tr>
<tr>
<td>14 Overall Undercarriage Length</td>
<td>3200 mm (126 in)</td>
<td>3200 mm (126 in)</td>
</tr>
<tr>
<td>15 Overall Shipping Length</td>
<td>6731 mm (265 in)</td>
<td>6816 mm (268 in)</td>
</tr>
<tr>
<td>16 Boom Swing Right</td>
<td>935 mm (37 in)</td>
<td>935 mm (37 in)</td>
</tr>
<tr>
<td>17 Boom Swing Left</td>
<td>604 mm (24 in)</td>
<td>604 mm (24 in)</td>
</tr>
<tr>
<td>18 Track Belt/Shoe Width</td>
<td>450 mm (18 in)</td>
<td>450 mm (18 in)</td>
</tr>
<tr>
<td>19 Overall Track Width</td>
<td>2470 mm (97 in)</td>
<td>2470 mm (97 in)</td>
</tr>
<tr>
<td>20 Ground Clearance</td>
<td>356 mm (14 in)</td>
<td>356 mm (14 in)</td>
</tr>
<tr>
<td>21 Stick Length</td>
<td>1823 mm (72 in)</td>
<td>2358 mm (93 in)</td>
</tr>
</tbody>
</table>

Air Conditioning System
The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.0 kg of refrigerant which has a CO₂ equivalent of 1.430 metric tonnes.
### Lift Capacities – Minimum Configuration

<table>
<thead>
<tr>
<th>Lift Point Height</th>
<th>Lift Point Radius (Maximum)</th>
<th>3 m (9.8 ft)</th>
<th>4.5 m (14.8 ft)</th>
<th>Lift Point Radius (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Over Front</td>
<td>Over Front</td>
<td>Over Side</td>
<td>Over Front</td>
</tr>
<tr>
<td>4.5 m (14.8 ft)</td>
<td>3 m (9.8 ft)</td>
<td>4.5 m (14.8 ft)</td>
<td></td>
<td>3 m (9.8 ft)</td>
</tr>
<tr>
<td>4.5 m (14.8 ft)</td>
<td>Standard Stick</td>
<td>2445* (5,391*)</td>
<td>1950 (4,300)</td>
<td>2185* (4,818*)</td>
</tr>
<tr>
<td></td>
<td>Long Stick</td>
<td>2445* (5,391*)</td>
<td>1950 (4,300)</td>
<td>2185* (4,818*)</td>
</tr>
<tr>
<td>3 m (9.8 ft)</td>
<td>Standard Stick</td>
<td>2570* (5,637*)</td>
<td>2355 (4,193)</td>
<td>2357* (5,637*)</td>
</tr>
<tr>
<td></td>
<td>Long Stick</td>
<td>2455* (5,391*)</td>
<td>2220 (4,074)</td>
<td>2335* (5,637*)</td>
</tr>
<tr>
<td>1.5 m (4.9 ft)</td>
<td>Standard Stick</td>
<td>3365* (7,420*)</td>
<td>2200 (4,397)</td>
<td>2365* (5,437*)</td>
</tr>
<tr>
<td></td>
<td>Long Stick</td>
<td>3105* (6,847*)</td>
<td>2200 (4,397)</td>
<td>2365* (5,437*)</td>
</tr>
<tr>
<td>0 m (0 ft)</td>
<td>Standard Stick</td>
<td>3860* (8,511*)</td>
<td>3070 (6,769)</td>
<td>3860* (8,511*)</td>
</tr>
<tr>
<td></td>
<td>Long Stick</td>
<td>3895* (8,588*)</td>
<td>3010 (6,637)</td>
<td>3895* (8,588*)</td>
</tr>
</tbody>
</table>

Minimum Weight includes steel tracks, cab, operator, full fuel tank, no counterweight, and no bucket.

### Lift Capacities – Maximum Configuration

<table>
<thead>
<tr>
<th>Lift Point Height</th>
<th>Lift Point Radius (Maximum)</th>
<th>3 m (9.8 ft)</th>
<th>4.5 m (14.8 ft)</th>
<th>Lift Point Radius (Maximum)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Over Front</td>
<td>Over Front</td>
<td>Over Side</td>
<td>Over Front</td>
</tr>
<tr>
<td>4.5 m (14.8 ft)</td>
<td>3 m (9.8 ft)</td>
<td>4.5 m (14.8 ft)</td>
<td></td>
<td>3 m (9.8 ft)</td>
</tr>
<tr>
<td>4.5 m (14.8 ft)</td>
<td>Standard Stick</td>
<td>2445* (5,391*)</td>
<td>1950 (4,300)</td>
<td>2185* (4,818*)</td>
</tr>
<tr>
<td></td>
<td>Long Stick</td>
<td>2445* (5,391*)</td>
<td>1950 (4,300)</td>
<td>2185* (4,818*)</td>
</tr>
<tr>
<td>3 m (9.8 ft)</td>
<td>Standard Stick</td>
<td>2790* (6,152*)</td>
<td>2090 (4,608)</td>
<td>2130* (4,697*)</td>
</tr>
<tr>
<td></td>
<td>Long Stick</td>
<td>2455* (5,347*)</td>
<td>2425* (5,347*)</td>
<td>1800 (4,190)</td>
</tr>
<tr>
<td>1.5 m (4.9 ft)</td>
<td>Standard Stick</td>
<td>3365* (7,420*)</td>
<td>2485 (5,479)</td>
<td>1970 (4,344)</td>
</tr>
<tr>
<td></td>
<td>Long Stick</td>
<td>3105* (6,847*)</td>
<td>2485 (5,479)</td>
<td>1970 (4,344)</td>
</tr>
<tr>
<td>0 m (0 ft)</td>
<td>Standard Stick</td>
<td>3860* (8,511*)</td>
<td>3860* (8,511*)</td>
<td>3860* (8,511*)</td>
</tr>
<tr>
<td></td>
<td>Long Stick</td>
<td>3895* (8,588*)</td>
<td>3895* (8,588*)</td>
<td>3895* (8,588*)</td>
</tr>
</tbody>
</table>

Maximum Weight includes steel tracks with pads, cab, operator, full fuel tank, counterweight, and no bucket.

†The 309 CR lift capacity specifications are based on a machine configured with a Long (L) Undercarriage. For lift capacity specifications representing a 309 CR with a Standard Undercarriage, please refer to the 308 CR information.

*The above loads are in compliance with hydraulic excavator lift capacity rating standard ISO 10567: 2007 and they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. The excavator bucket weight is not included on this chart. Lifting capacities are for standard stick.
309 CR Mini Hydraulic Excavator

EQUIPMENT

ENGINE
- Cat C3.3B Diesel Engine (U.S. EPA Tier 4 Final/EU Stage V) – Electronic Engine, Turbo, Diesel Particulate Filter (DPF)
- Automatic Engine Idle
- Automatic Engine Shutdown
- Automatic Swing Brake
- Automatic Two Speed Travel
- Fuel Water Separator with Indicator
- Radial Seal – Double Element Air Filter
- Extended Life Coolant, –37° C (–35° F)
- Ecology Drain

HYDRAULICS
- Smart Tech Electronic Pump
- Variable Displacement Piston Pump
- Load Sensing/Flow Sharing Hydraulics
- Power On Demand
- Hydraulic Temperature Monitoring
- Certified Accumulator
- HYDO Advanced Hydraulic Oil

OPERATOR ENVIRONMENT
- Sealed and Pressurized Cab
- Operator Sound Pressure 72 dB(A) ISO 6396:2008
- Stick Steer Mode
- Travel Cruise Control
- Control Pattern Changer
- Adjustable Wrist Rests
- Molded Footrests
- Removable, Washable Floor Mat
- Travel Pedals and Hand Levers
- Cat Key with Passcode Option
- HVAC with Automatic Temperature Control
- Hydraulic Lockout Controls
- Integrated Lower Front Window
- Assisted Front Window Overhead Storage
- Rear Window Emergency Exit
- Fabric, High Back, Suspension Seat
- Retractable Seat Belt (75 mm/3 in)
- Cup Holder
- LED Interior Light
- Literature Holder
- 12V Power Socket
- Radio – Bluetooth®, USB, Auxiliary, Microphone
- Skylight
- Mounting Bosses for Top and Front Guards
- Top Guard – ISO 10262:1998 (Level II)
- Color LCD Monitor
  - Fuel Level and Coolant Temperature Gauges
  - Maintenance and Machine Monitoring
  - Performance and Machine Adjustments
  - Numeric Security Code
  - Multiple Languages
  - Camera Ready
  - Hour Meter with Wake Up Switch
  - Jog Dial Control Interface

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT
- Rain Visor
- Air Suspension Heated Seat

ELECTRICAL
- Rearview Camera
- Rotating Beacon

OTHER
- Attachments including Buckets, Augers and Hammers
- Wide Steel Tracks (600 mm/23.6 in)
- Wide Dozer Blade
- 2nd Auxiliary Hydraulic Lines with Case Drain
- Additional Counterweight
- Boom and Stick Hose Burst Check Valves
- Bucket Linkage with Lift Eye
- Track Guides
- Water Jacket Heater
- Refueling Pump
- Variable Angle Boom (please see 309 CR VAB brochure for VAB specs and additional information)
- Cab Guarding

UNDERCARRIAGE
- Greased and Lubricated Track
- Hydraulic Track Adjusters
- Tie Down Eyes on Track Frame
- Dozer Blade
- Dozer Float
- Bolt-on, Reversible Wear Edge
- Steel Tracks (450 mm/17.7 in wide)

BOOM, STICK AND LINKAGES
- One Piece Boom (3400 mm/133.9 in)
- Standard Stick (1820 mm/71.7 in)
- Long Stick (2360 mm/92.9 in)
- Front Shovel Capable (Pin-On/Manual Coupler/Hydraulic Coupler – not available in all regions)
- Thumb Ready (not available in all regions)
- Certified Lifting Eye (not available in all regions)

ELECTRICAL
- 12 Volt Electrical System
- 60 Ampere Alternator
- 900 CCA Maintenance Free Battery
- Circuit Breaker
- Ignition Key Stop Switch
- Signaling/Warning Horn
- Product Link™ Elite Lite (regulations apply)
- Travel Alarm

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

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