



# Cat<sup>®</sup> 306 CR

## MINI HYDRAULIC EXCAVATOR

### FEATURES:

The Cat<sup>®</sup> 306 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

- Your choice of a canopy or 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 help you get the job done more efficiently.

#### 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. An optional 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.

#### CHOICES

- Configure the machine to meet your specific application needs with a straight blade, angle blade, or Extra Tool Carrier (XTC).

#### 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

### Engine

|                                    |                |                     |
|------------------------------------|----------------|---------------------|
| Engine Model                       | Cat C2.4 Turbo |                     |
| <b>Rated Net Power @ 2,200 rpm</b> |                |                     |
| U.S. EPA Tier 4 Final/EU Stage V   | 41.7 kW        | 55.9 hp             |
| ISO 9249/EEC 80/1269               |                |                     |
| <b>Gross Power</b>                 |                |                     |
| ISO 14396                          | 43.2 kW        | 57.9 hp             |
| Bore                               | 87 mm          | 3.4 in              |
| Stroke                             | 102.4 mm       | 4 in                |
| Displacement                       | 2.43 L         | 148 in <sup>3</sup> |

### Weights

|  |         |           |
|--|---------|-----------|
| Minimum Operating Weight with Canopy*  | 6411 kg | 14,136 lb |
| Maximum Operating Weight with Canopy** | 7107 kg | 15,671 lb |
| Minimum Operating Weight with Cab*     | 6485 kg | 14,299 lb |
| Maximum Operating Weight with Cab**    | 7175 kg | 15,821 lb |

\*Minimum Weight is based on rubber tracks, operator, full fuel tank, standard stick, blade and bucket.

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



# 306 CR Mini Hydraulic Excavator

## Weight Increase from Minimum Configuration

|                        |        |        |
|------------------------|--------|--------|
| Counterweight          | 250 kg | 551 lb |
| Long Stick             | 44 kg  | 97 lb  |
| Steel Tracks with Pads | 375 kg | 827 lb |
| Angle Blade            | 102 kg | 225 lb |
| XTC Carriage (no tool) | 64 kg  | 141 lb |

## Travel System

|                                     |            |            |
|-------------------------------------|------------|------------|
| Travel Speed – High                 | 5.0 km/h   | 3.1 mph    |
| Travel Speed – Low                  | 2.8 km/h   | 1.7 mph    |
| Maximum Traction Force – High Speed | 31 kN      | 6,969 lbf  |
| Maximum Traction Force – Low Speed  | 56 kN      | 12,589 lbf |
| Ground Pressure – Minimum Weight    | 35.4 kPa   | 5.1 psi    |
| Ground Pressure – Maximum Weight    | 39.1 kPa   | 5.7 psi    |
| Gradeability (maximum)              | 30 degrees |            |

## Service Refill Capacities

|                  |        |          |
|------------------|--------|----------|
| Cooling System   | 10.0 L | 2.6 gal  |
| Engine Oil       | 8.0 L  | 2.1 gal  |
| Fuel Tank        | 130 L  | 34.3 gal |
| Hydraulic Tank   | 39 L   | 10.3 gal |
| Hydraulic System | 75 L   | 19.8 gal |

## Hydraulic System

|  |           |            |
|--|-----------|------------|
| Load Sensing Hydraulics with Variable Displacement Piston Pump |           |            |
| Pump Flow @ 2,400 rpm  | 173 L/min | 46 gal/min |
| Operating Pressure – Equipment                                 | 245 bar   | 3,553 psi  |
| Operating Pressure – Travel                                    | 245 bar   | 3,553 psi  |
| Operating Pressure – Swing                                     | 210 bar   | 3,046 psi  |
| Auxiliary Circuit – Primary                                    |           |            |
| Flow   | 90 L/min  | 24 gal/min |
| Pressure   | 245 bar   | 3,553 psi  |
| Auxiliary Circuit – Secondary                                  |           |            |
| Flow   | 33 L/min  | 9 gal/min  |
| Pressure   | 245 bar   | 3,553 psi  |
| Digging Force – Stick (Standard)                               | 29.5 kN   | 6,632 lbf  |
| Digging Force – Stick (Long)                                   | 26.5 kN   | 5,957 lbf  |
| Digging Force – Bucket   | 51.5 kN   | 11,578 lbf |

## Swing System

|                     |        |
|---------------------|--------|
| Machine Swing Speed | 11 rpm |
|---------------------|--------|

## Blade

|                       |         |         |
|-----------------------|---------|---------|
| Straight Blade Width  | 1980 mm | 78 in   |
| Straight Blade Height | 390 mm  | 15.4 in |
| Angle Blade Width     | 1980 mm | 78 in   |
| Angle Blade Height    | 400 mm  | 15.7 in |

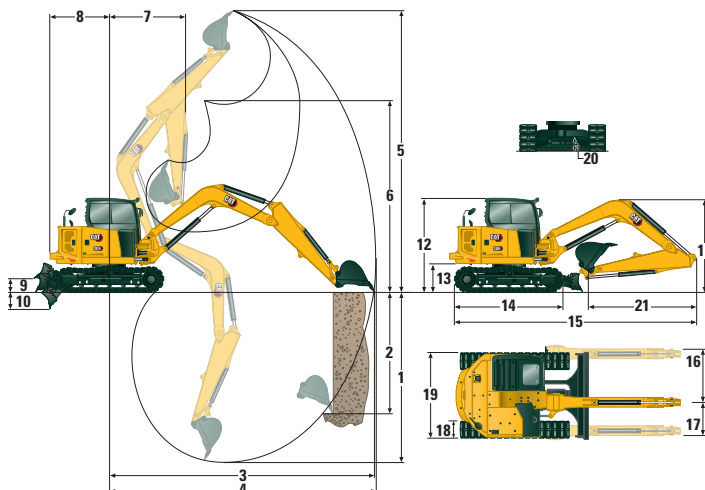
## Certification – Cab

|                                       |                           |
|---------------------------------------|---------------------------|
| Roll Over Protective Structure (ROPS) | ISO 12117-2:2008          |
| Tip Over Protective Structure (TOPS)  | ISO 12117:1997            |
| Top Guard                             | ISO 10262:1998 (Level II) |

## Sound

|  |          |
|--|----------|
| Operator Sound Pressure<br>(ISO 6396:2008)         | 72 dB(A) |
| Average Exterior Sound Pressure<br>(ISO 6395:2008) | 99 dB(A) |

• European Union Directive “2000/14/EC”



## Dimensions

|  | Standard Stick   | Long Stick       |
|--|------------------|------------------|
| <b>1</b> Dig Depth                     | 3710 mm (146 in) | 4110 mm (162 in) |
| <b>2</b> Vertical Wall                 | 2710 mm (107 in) | 3165 mm (125 in) |
| <b>3</b> Maximum Reach at Ground Level | 6130 mm (241 in) | 6535 mm (257 in) |
| <b>4</b> Maximum Reach                 | 6295 mm (248 in) | 6685 mm (263 in) |
| <b>5</b> Maximum Dig Height            | 5835 mm (230 in) | 6130 mm (241 in) |
| <b>6</b> Maximum Dump Clearance        | 4325 mm (170 in) | 4610 mm (181 in) |
| <b>7</b> Boom in Reach                 | 2485 mm (98 in)  | 2960 mm (117 in) |
| <b>8</b> Tail Swing with Counterweight | 1475 mm (58 in)  | 1475 mm (58 in)  |
| Tail Swing without Counterweight       | 1350 mm (53 in)  | 1350 mm (53 in)  |
| <b>9</b> Maximum Blade Height          | 415 mm (16 in)   | 415 mm (16 in)   |
| <b>10</b> Maximum Blade Depth          | 600 mm (24 in)   | 600 mm (24 in)   |
| <b>11</b> Transport Height             | 1755 mm (69 in)  | 2410 mm (95 in)  |
| <b>12</b> Cab Height                   | 2545 mm (100 in) | 2545 mm (100 in) |
| <b>13</b> Swing Bearing Height         | 672 mm (26 in)   | 672 mm (26 in)   |
| <b>14</b> Overall Undercarriage Length | 2580 mm (102 in) | 2580 mm (102 in) |
| <b>15</b> Overall Shipping Length      | 5975 mm (235 in) | 5950 mm (234 in) |
| <b>16</b> Boom Swing Right             | 910 mm (36 in)   | 910 mm (36 in)   |
| <b>17</b> Boom Swing Left              | 735 mm (29 in)   | 735 mm (29 in)   |
| <b>18</b> Track Belt/Shoe Width        | 400 mm (16 in)   | 400 mm (16 in)   |
| <b>19</b> Overall Track Width          | 1980 mm (78 in)  | 1980 mm (78 in)  |
| Width Over Upper House                 | 1950 mm (77 in)  | 1950 mm (77 in)  |
| <b>20</b> Ground Clearance             | 306 mm (12 in)   | 306 mm (12 in)   |
| <b>21</b> Stick Length                 | 1580 mm (62 in)  | 1980 mm (78 in)  |

## Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1287). The system contains 0.9 kg of refrigerant which has a CO<sub>2</sub> equivalent of 1.287 metric tonnes.

## Lift Capacities – Minimum Configuration

| Lift Point Height |                |         | Lift Point radius 3 m (9.8 ft) |              |              | Lift Point radius 4.5 m (14.8 ft) |              |             | Lift Point radius (Maximum) |                |                |             |
|-------------------|----------------|---------|--------------------------------|--------------|--------------|-----------------------------------|--------------|-------------|-----------------------------|----------------|----------------|-------------|
|                   |                |         | Over Front                     |              | Over Side    | Over Front                        |              | Over Side   | Over Front                  |                | Over Side      | m (ft)      |
|                   |                |         | Blade Down                     | Blade Up     |              | Blade Down                        | Blade Up     |             | Blade Down                  | Blade Up       |                |             |
| 4.5 m (14.8 ft)   | Standard Stick | kg (lb) |                                |              |              |                                   |              |             | *1155 (*2,547)              | *1155 (*2,547) | *1155 (*2,547) | 4.16 (13.6) |
| 3 m (9.8 ft)      | Standard Stick | kg (lb) |                                |              |              | *1615 (*3,561)                    | 1175 (2,591) | 960 (2,117) | *1055 (*2,326)              | *1055 (*2,326) | 760 (1,676)    | 5.18 (17.0) |
| 1.5 m (4.9 ft)    | Standard Stick | kg (lb) | *3470 (*7,651)                 | 2040 (4,498) | 1595 (3,517) | *1945 (*4,289)                    | 1120 (2,470) | 905 (1,996) | *1125 (*2,481)              | 830 (1,830)    | 675 (1,488)    | 5.51 (18.1) |
| 0 m (0 ft)        | Standard Stick | kg (lb) | *3555 (*7,839)                 | 1955 (4,311) | 1515 (3,341) | *2135 (*4,708)                    | 1080 (2,381) | 865 (1,907) | *1390 (*3,065)              | 860 (1,896)    | 695 (1,532)    | 5.32 (17.5) |

Minimum Weight includes rubber tracks, no extra counterweight, operator, full fuel tank, standard stick, blade and no bucket.

## Lift Capacities – Maximum Configuration

| Lift Point Height |            |         | Lift Point radius 3 m (9.8 ft) |              |              | Lift Point radius 4.5 m (14.8 ft) |                |              | Lift Point radius (Maximum) |                |                |             |
|-------------------|------------|---------|--------------------------------|--------------|--------------|-----------------------------------|----------------|--------------|-----------------------------|----------------|----------------|-------------|
|                   |            |         | Over Front                     |              | Over Side    | Over Front                        |                | Over Side    | Over Front                  |                | Over Side      | m (ft)      |
|                   |            |         | Blade Down                     | Blade Up     |              | Blade Down                        | Blade Up       |              | Blade Down                  | Blade Up       |                |             |
| 4.5 m (14.8 ft)   | Long Stick | kg (lb) |                                |              |              | *1365 (*3,010)                    | *1365 (*3,010) | 1150 (2,536) | *1145 (*2,525)              | *1145 (*2,525) | *1145 (*2,525) | 4.70 (15.4) |
| 3 m (9.8 ft)      | Long Stick | kg (lb) |                                |              |              | *1420 (*3,131)                    | *1420 (*3,131) | 1140 (2,514) | *1055 (*2,326)              | *1055 (*2,326) | 800 (1,764)    | 5.60 (18.4) |
| 1.5 m (4.9 ft)    | Long Stick | kg (lb) |                                |              |              | *1780 (*3,925)                    | 1315 (2,900)   | 1075 (2,370) | *1110 (*2,448)              | 875 (1,929)    | 720 (1,588)    | 5.90 (19.4) |
| 0 m (0 ft)        | Long Stick | kg (lb) | *3495 (*7,706)                 | 2275 (5,016) | 1785 (3,936) | *2085 (*4,597)                    | 1255 (2,767)   | 1020 (2,249) | *1310 (*2,889)              | 900 (1,985)    | 735 (1,621)    | 5.73 (18.8) |

Maximum Weight includes steel tracks, extra counterweight, operator, full fuel tank, long stick, blade and no bucket.

\*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.

## EQUIPMENT

### ENGINE

- Cat C2.4T 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

- Side by Side Engine and Hydraulic Oil Cooler
- 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
- Hydro Advanced Hydraulic Oil
- Auxiliary Hydraulic Lines:
  - 1 and 2-way (combined function)
  - Auxiliary Line Quick Disconnects
  - Adjustable Auxiliary Flow
  - Continuous Flow
  - Adjustable Auxiliary Relief

*(continued on next page)*

# 306 CR Mini Hydraulic Excavator

## EQUIPMENT *(continued)*

### OPERATOR ENVIRONMENT

- Canopy or 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
- Hydraulic Lockout Controls
- High Back, Suspension Seat
- Retractable Seat Belt (75 mm/3 in)
- Coat Hook
- Cup Holder
- Literature Holder
- Mounting Bosses for Top and Front Guards
- ROPS – ISO 12117-2:2008
- TOPS – ISO 12117:1997
- Signaling/Warning Horn
- Cab and (left side) Boom Work Lights
- Utility Space for Mobile Phone

- 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
- Cab Machines Only
  - HVAC with Automatic Temperature Control
  - Integrated Lower Front Window
  - Assisted Front Window Overhead Storage
  - Rear Window Emergency Exit
  - LED Interior Light
  - 12V Power Socket
  - Radio – Bluetooth®, USB, Auxiliary, Microphone
  - Skylight

### UNDERCARRIAGE

- Greased and Lubricated Track
- Hydraulic Track Adjusters
- Tie Down Eyes on Track Frame
- Dozer Straight Blade
- Dozer Float
- Bolt-on, Reversible Wear Edge
- Rubber Tracks

### BOOM, STICK AND LINKAGES

- One Piece Boom (3055 mm/120.3 in)
- Standard Stick (1580 mm/62.2 in)
- Long Stick (1980 mm/78.0 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
- 90 Ampere Alternator
- 650 CCA Maintenance Free Battery
- Battery Disconnect
- Circuit Breaker
- Ignition Key Stop Switch
- Signaling/Warning Horn
- Product Link™ Basic (regulations apply, not available in all regions)
- Travel Alarm

### OTHER

- Locks on External Enclosure Doors
- Lockable Fuel Cap
- Beacon Socket
- Rear Reflectors

## OPTIONAL EQUIPMENT

### OPERATOR ENVIRONMENT

- Cab (see details above)
- Next Generation Advanced Monitor
  - Touch Screen
  - Site Reference System
  - High Definition Camera Capable
- Rain Visor
- Air Suspension Heated Seat with Cab
- Top Guard – ISO 10262:1998 (Level II)

### ELECTRICAL

- Product Link Elite (regulations apply, not available in all regions)
- Rearview Camera
- Rotating Beacon

### OTHER

- Attachments including Buckets, Augers and Hammers
- Angle Blade
- Extra Tool Carrier (XTC)

- Steel Tracks (450 mm/17.7 in wide)
- Steel Track with Rubber Pads
- 2nd Auxiliary Hydraulic Lines
- Additional Counterweight
- Boom and Stick Hose Burst Check Valves
- Bucket Linkage with Lift Eye
- Track Guides
- Water Jacket Heater
- Refueling Pump
- Cab Guarding

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com)

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AEHQ8236 (08-2019)  
(North America, Europe, ANZP)

