The Cat® 305.5E2 CR Mini Hydraulic Excavator delivers high performance, durability and versatility in a compact design to help you work in a variety of applications. The 305.5E2 CR features the following:

**QUALITY**
- The durable hoods and frame and the compact radius design of the 305.5E2 let you work comfortably and confidently in confined areas.
- The operator environment includes a high quality suspension seat, easy to adjust armrests and 100% pilot controls which offer consistent and long-lasting controllability.

**EFFICIENCY**
- High Definition Hydraulic System provides a load sensing and flow sharing capability leading to operational precision, efficient performance and greater controllability.
- Power on Demand provides optimal efficiency and performance the moment you need it. This automatic system ensures fuel efficiency through appropriate engine rating to meet all operational needs as required.

**VERSATILITY**
- Broad range of Cat Work Tools make the Cat Mini Excavator a versatile machine able to meet the requirements of any job site.
- Over 200 degrees of bucket rotation provides greater material retention during truck loading and easier flat wall digging without having to reposition the machine.

**PERFORMANCE**
- Front shovel bucket orientation provides the operator with more ways to get the job done faster.
- COMPASS Control Panel is a standard feature that allows the operator to easily adjust auxiliary flows to achieve the optimal work tool performance, activate auto idle for improved fuel efficiency and utilize the security system to ensure protection of valuable assets with the simple touch of a button.
- The Site Reference System included in the COMPASS monitor provides output from pitch and roll sensors to aid in grading and level trenching. This impacts accuracy and productivity for job site finishing.

**SERVICEABILITY**
- Convenient service and maintenance requirements include ease of access to daily check points, 500 hour engine oil and filter change period, 500 hour grease interval on front implement, S-O-S™ oil sampling valve and overall long term durability.

**SAFETY**
- All Cat Mini Excavators from 3.5 metric tons to 8 metric tons are ROPS, TOPS and Top Guard Level 1 certified and include the Cat Interlock (hydraulic lockout) System, a certified accumulator which allows for auxiliary pressure to be released, making connecting and disconnecting work tools safer and easier, and a travel alarm. All of these safety features are standard on the E2 model lineup (travel alarm optional in Europe).

### Specifications

<table>
<thead>
<tr>
<th>Engine</th>
<th>Cat C2.4</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Engine Model</strong></td>
<td>Cat C2.4</td>
</tr>
<tr>
<td><strong>Rated Net Power @ 2,200 rpm</strong></td>
<td>32.9 kW 44.1 hp</td>
</tr>
<tr>
<td>ISO 9249/EEC 80/1269</td>
<td>34.1 kW 45.7 hp</td>
</tr>
<tr>
<td><strong>Gross Power</strong></td>
<td>ISO 14396</td>
</tr>
<tr>
<td><strong>Bore</strong></td>
<td>87 mm 3.4 in</td>
</tr>
<tr>
<td><strong>Stroke</strong></td>
<td>102.4 mm 4 in</td>
</tr>
<tr>
<td><strong>Displacement</strong></td>
<td>2.4 L 146 in³</td>
</tr>
</tbody>
</table>

**Weights**

| Weight – Canopy, Standard Stick | 5217 kg 11,503 lb |
| Weight – Canopy, Long Stick | 5259 kg 11,596 lb |
| Weight – Cab, Standard Stick | 5380 kg 11,863 lb |
| Weight – Cab, Long Stick | 5423 kg 11,958 lb |

*Weight includes counterweight, rubber tracks, bucket, operator, full fuel and auxiliary lines.*

*Meets U.S. EPA Tier 4 Final/EU Stage IIIA emission standards.*
305.5E2 CR Mini Hydraulic Excavator with Swing Boom

Swing System
- Machine Swing Speed: 10 rpm
- Boom Swing – Left* (without stop): 80°
- Boom Swing – Left* (with stop): 60°
- Boom Swing – Right: 50°

*Automatic swing brake, spring applied, hydraulic release.

Travel System
- Travel Speed – High: 4.5 km/h 2.8 mph
- Travel Speed – Low: 2.8 km/h 1.7 mph
- Max Traction Force – High Speed: 26.8 kN 6,025 lb
- Max Traction Force – Low Speed: 47.8 kN 10,746 lb
- Ground Pressure – Canopy: 31 kPa 4.5 psi
- Ground Pressure – Cab: 31.9 kPa 4.6 psi
- Gradeability (maximum): 30°

Service Refill Capacities
- Cooling System: 10.5 L 2.8 gal
- Engine Oil: 9.5 L 2.5 gal
- Fuel Tank: 63 L 16.6 gal
- Hydraulic Tank: 68.3 L 18 gal
- Hydraulic System: 78 L 20.6 gal

Hydraulic System
- Load Sensing Hydraulics with Variable Displacement Piston Pump
- Pump Flow at 2,400 rpm: 150 L/min 39.6 gal/min
- Operating Pressure – Equipment: 245 bar 3,553 psi
- Operating Pressure – Travel: 245 bar 3,553 psi
- Operating Pressure – Swing: 216 bar 3,132 psi
- Auxiliary Circuit – Primary (186 bar/2,734 psi): 80 L/min 21.1 gal/min
- Auxiliary Circuit – Secondary (174 bar/2,524 psi): 25 L/min 6.6 gal/min
- Digging Force – Stick (standard): 28.9 kN 6,500 lb
- Digging Force – Stick (long): 24.8 kN 5,575 lb
- Digging Force – Bucket: 50.9 kN 11,445 lb

Cab
- Dynamic Operator Sound Pressure Level (ISO 6396:2008): 81 dB(A)
- Exterior Sound Power Level (ISO 6395:2008)*: 97 dB(A)

*European Union Directive “2000/14/EC”

Certification – Cab and Canopy
- Roll Over Protective Structure (ROPS): ISO 12117-2
- Tip Over Protective Structure (TOPS): ISO 12117
- Top Guard: ISO 10262 (Level I)

Operating Specifications
- Stick Length – Standard: 1420 mm 55 in
- Stick Length – Long: 1820 mm 70 in
- Counterweight: 165.3 kg 364.4 lb

Undercarriage
- Number of Carrier Rollers: 1
- Number of Track Rollers: 4
- Track Roller Type: Center Flange

Lift Capacities at Ground Level*

<table>
<thead>
<tr>
<th>Lift Point Radius</th>
<th>3000 mm (9'8&quot;)</th>
<th>4500 mm (14'9&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Front</td>
<td>Side</td>
</tr>
<tr>
<td>Blade Down</td>
<td>kg</td>
<td>lb</td>
</tr>
<tr>
<td></td>
<td>(5,710)</td>
<td>(2,844)</td>
</tr>
<tr>
<td>Blade Up</td>
<td>kg</td>
<td>lb</td>
</tr>
<tr>
<td></td>
<td>(3,417)</td>
<td>(2,535)</td>
</tr>
</tbody>
</table>

*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.

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 1.4 metric tonnes.
## Dimensions

<table>
<thead>
<tr>
<th>#</th>
<th>Description</th>
<th>Standard Stick</th>
<th>Long Stick</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dig Depth</td>
<td>3470 mm</td>
<td>3870 mm</td>
</tr>
<tr>
<td>2</td>
<td>Vertical Wall</td>
<td>2330 mm</td>
<td>2730 mm</td>
</tr>
<tr>
<td>3</td>
<td>Maximum Reach at Ground Level</td>
<td>5630 mm</td>
<td>6020 mm</td>
</tr>
<tr>
<td>4</td>
<td>Maximum Reach</td>
<td>5790 mm</td>
<td>6170 mm</td>
</tr>
<tr>
<td>5</td>
<td>Maximum Dig Height</td>
<td>5330 mm</td>
<td>5590 mm</td>
</tr>
<tr>
<td>6</td>
<td>Maximum Dump Clearance</td>
<td>3820 mm</td>
<td>4080 mm</td>
</tr>
<tr>
<td>7</td>
<td>Boom In Reach</td>
<td>2400 mm</td>
<td>2530 mm</td>
</tr>
<tr>
<td>8</td>
<td>Tail Swing</td>
<td>1130 mm</td>
<td>1130 mm</td>
</tr>
<tr>
<td>9</td>
<td>Maximum Blade Height</td>
<td>405 mm</td>
<td>405 mm</td>
</tr>
<tr>
<td>10</td>
<td>Maximum Blade Depth</td>
<td>555 mm</td>
<td>555 mm</td>
</tr>
<tr>
<td>11</td>
<td>Boom Height in Shipping Position</td>
<td>1740 mm</td>
<td>2150 mm</td>
</tr>
<tr>
<td>12</td>
<td>O/A Shipping Height</td>
<td>2550 mm</td>
<td>2550 mm</td>
</tr>
<tr>
<td>13</td>
<td>Swing Bearing Height</td>
<td>615 mm</td>
<td>615 mm</td>
</tr>
<tr>
<td>14</td>
<td>O/A Undercarriage Length</td>
<td>2580 mm</td>
<td>2580 mm</td>
</tr>
<tr>
<td>15</td>
<td>O/A Shipping Length</td>
<td>5330 mm</td>
<td>5460 mm</td>
</tr>
<tr>
<td>16</td>
<td>Boom Swing Right</td>
<td>785 mm</td>
<td>785 mm</td>
</tr>
<tr>
<td>17</td>
<td>Boom Swing Left</td>
<td>695 mm</td>
<td>695 mm</td>
</tr>
<tr>
<td>18</td>
<td>Track Belt/Shoe Width</td>
<td>400 mm</td>
<td>400 mm</td>
</tr>
<tr>
<td>19</td>
<td>O/A Track Width</td>
<td>1980 mm</td>
<td>1980 mm</td>
</tr>
</tbody>
</table>
305.5E2 CR Mini Hydraulic Excavator with Swing Boom

**STANDARD EQUIPMENT**

**ENGINE**
- Cat C2.4 diesel engine (meets U.S. EPA Tier 4 Final emission standards for North America and EU Stage IIIA/Tier 4 Interim emission standards for all other regions)
- Automatic engine idle
- Automatic engine shut-off
- Automatic two speed travel
- Diesel Particulate Filter (North America only)
- Diesel Oxidation Catalyst (North America only)
- Fuel and water separator
- Power on demand

**HYDRAULIC SYSTEM**
- 1-way and 2-way (combined function)
- Accumulator
- Automatic swing parking brake
- Auxiliary hydraulic lines
- Adjustable auxiliary relief
- Auxiliary line quick disconnects
- Cat interlock system: hydraulic lockout
- Continuous auxiliary flow
- Ecology drain
- Hydraulic oil cooler
- High definition hydraulics
- Load sensing/flow sharing

**OPERATOR ENVIRONMENT**
- 100% pilot control ergonomic joysticks
- Adjustable armrests
- COMPASS: complete, operation, maintenance, performance and security system
  - Multiple languages
  - Cup holder
  - Hydraulic neutral lockout bar
  - Literature holder
  - Pattern changer (optional in Europe)
  - Site reference system: leveling
  - Tool storage area
  - Travel control pedals with hand levers
  - Washable floor mat

**UNDERCARRIAGE**
- Dozer blade with float function
- Track, rubber belt, 400 mm (16 in) width
- Tie down eyes on track frame
- Towing eye on base frame

**FRONT LINKAGE**
- 200 degree bucket rotation
- Certified lifting eye on bucket linkage (optional in Europe)
- Front shovel capable
- Thumb ready stick

**ELECTRICAL**
- 12 volt electrical system
- 60 ampere alternator
- 650 CCA maintenance free battery
- Fuse box
- Ignition key start/stop switch
- Slow blow fuse
- Warning horn

**LIGHTS AND MIRRORS**
- Boom light with time delay capability

**SAFETY AND SECURITY**
- Anti-theft system (COMPASS)
- Caterpillar Corporate “One Key” System
- Door locks
- Lockable fuel cap
- Retractable seat belt
- Roll Over Protective Structure (ROPS) (ISO 12117-2)
- Tip Over Protective Structure (TOPS) (ISO 12117)
- Top guard – ISO 10262 (Level 1)
- Travel alarm (optional in Europe)

**TECHNOLOGY**
- Product Link™

**OPTIONAL EQUIPMENT**

**ENGINE**
- Engine block heater

**HYDRAULIC SYSTEM**
- Quick coupler lines
- Boom lowering check valve
- Stick lowering check valve
- Secondary auxiliary hydraulic lines

**OPERATOR ENVIRONMENT**
- Cab:
  - Air conditioning
  - Heat
  - High back suspension seat
  - Interior light
  - Interlocking front window system
  - Radio
  - Windshield wiper

**UNDERCARRIAGE**
- Power angle blade
- Track, double grouser (steel), 400 mm (16 in)
- Track, double grouser (steel) with rubber pad, 400 mm (16 in)

**FRONT LINKAGE**
- Quick coupler: manual or hydraulic
- Thumb
- Buckets
- Full range of performance matched work tools
  - Auger, hammer, ripper

**SAFETY AND SECURITY**
- Battery disconnect
- Beacon socket
- Front wire mesh guard
- Rearview camera
- Vandal guard

**OTHER ATTACHMENTS**
- Counterweight, extra

**LIGHTS AND MIRRORS**
- Light, cab with time delay capability
- Mirror, canopy right
- Mirror, canopy left
- Mirror, cab rear

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