FEATURES:
The Cat® 305E2 CR Mini Hydraulic Excavator delivers high performance, durability and versatility in a compact design to help you work in a variety of applications. The 305E2 CR features the following:

QUALITY
■ The durable hoods and frame and the compact radius design of the 305E2 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, 50 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 10 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>Engine Model*</td>
<td></td>
</tr>
<tr>
<td>Rated Net Power @ 2,200 rpm</td>
<td>30 kW 40.2 hp</td>
</tr>
<tr>
<td>ISO 9249/EEC 80/1269</td>
<td></td>
</tr>
<tr>
<td>Gross Power</td>
<td>31.2 kW 41.8 hp</td>
</tr>
<tr>
<td>ISO 14396</td>
<td></td>
</tr>
<tr>
<td>Bore</td>
<td>87 mm 3.4 in</td>
</tr>
<tr>
<td>Stroke</td>
<td>102.4 mm 4 in</td>
</tr>
<tr>
<td>Displacement</td>
<td>2.4 L 146 in²</td>
</tr>
</tbody>
</table>

*Meets U.S. EPA Tier 4 Final emission standards for North America, EU Stage V emission standards for Europe and Tier 4 Interim emission standards for all other regions.

Weights*

| Weight – Canopy, Standard Stick | 4975 kg 10,970 lb |
| Weight – Canopy, Long Stick    | 5020 kg 11,069 lb |
| Weight – Cab, Standard Stick   | 5140 kg 11,334 lb |
| Weight – Cab, Long Stick       | 5185 kg 11,443 lb |

*Weight includes counterweight, rubber tracks, bucket, operator, full fuel and auxiliary lines.
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 4.4 km/h 2.7 mph
Travel Speed – Low 2.8 km/h 1.7 mph
Max Traction Force – High Speed 24.1 kN 5,418 lb
Max Traction Force – Low Speed 45.2 kN 10,161 lb
Ground Pressure – Canopy 29.5 kPa 4.3 psi
Ground Pressure – Cab 30.5 kPa 4.4 psi

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
Maximum Auxiliary Circuit – Primary
Flow at Pump* 80 L/min 21.1 gal/min
Pressure at Pump* 24 500 kPa 3,553 psi
Maximum Auxiliary Circuit – Secondary
Flow at Pump* 25 L/min 6.6 gal/min
Pressure at Pump* 24 500 kPa 3,553 psi
*Flow and pressure are not combinable. Under load, as flow rises pressure goes down.

Digging Force – Stick (standard) 24.7 kN 5,550 lb
Digging Force – Stick (long) 21.3 kN 4,788 lb
Digging Force – Bucket 44.7 kN 10,050 lb

Blade
Width 1980 mm 78.0 in
Height 375 mm 14.8 in
Dig Depth 555 mm 21.9 in
Lift Height 405 mm 15.9 in

Cab
Dynamic Operator Sound Pressure Level (ISO 6396:2008) 81 dB(A)
Exterior Sound Power Level (ISO 6395:2008)* 96 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 1350 mm 52 in
Stick Length – Long 1750 mm 67 in

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”)</th>
<th>4000 mm (13’1”)</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>(lb)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>2340</td>
<td>5,159</td>
</tr>
<tr>
<td></td>
<td>1260</td>
<td>2,778</td>
</tr>
<tr>
<td></td>
<td>640</td>
<td>1,411</td>
</tr>
<tr>
<td>Blade Up</td>
<td>kg</td>
<td>lb</td>
</tr>
<tr>
<td></td>
<td>(lb)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1450</td>
<td>3,197</td>
</tr>
<tr>
<td></td>
<td>760</td>
<td>1,676</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>Standard Stick</th>
<th>Long Stick</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Dig Depth</td>
<td>3280 mm</td>
</tr>
<tr>
<td>2</td>
<td>Vertical Wall</td>
<td>2320 mm</td>
</tr>
<tr>
<td>3</td>
<td>Maximum Reach at Ground Level</td>
<td>5330 mm</td>
</tr>
<tr>
<td>4</td>
<td>Maximum Reach</td>
<td>5600 mm</td>
</tr>
<tr>
<td>5</td>
<td>Maximum Dig Height</td>
<td>5250 mm</td>
</tr>
<tr>
<td>6</td>
<td>Maximum Dump Clearance</td>
<td>3720 mm</td>
</tr>
<tr>
<td>7</td>
<td>Boom In Reach</td>
<td>2350 mm</td>
</tr>
<tr>
<td>8</td>
<td>Tail Swing</td>
<td>1100 mm</td>
</tr>
<tr>
<td>9</td>
<td>Maximum Blade Height</td>
<td>405 mm</td>
</tr>
<tr>
<td>10</td>
<td>Maximum Blade Depth</td>
<td>555 mm</td>
</tr>
<tr>
<td>11</td>
<td>Boom Height in Shipping Position</td>
<td>1750 mm</td>
</tr>
<tr>
<td>12</td>
<td>O/A Shipping Height</td>
<td>2550 mm</td>
</tr>
<tr>
<td>13</td>
<td>Swing Bearing Height</td>
<td>615 mm</td>
</tr>
<tr>
<td>14</td>
<td>O/A Undercarriage Length</td>
<td>2580 mm</td>
</tr>
<tr>
<td>15</td>
<td>O/A Shipping Length</td>
<td>5180 mm</td>
</tr>
<tr>
<td>16</td>
<td>Boom Swing Right</td>
<td>785 mm</td>
</tr>
<tr>
<td>17</td>
<td>Boom Swing Left</td>
<td>695 mm</td>
</tr>
<tr>
<td>18</td>
<td>Track Belt/Shoe Width</td>
<td>400 mm</td>
</tr>
<tr>
<td>19</td>
<td>O/A Track Width</td>
<td>1980 mm</td>
</tr>
</tbody>
</table>
305E2 CR Mini Hydraulic Excavator

STANDARD EQUIPMENT

ENGINE
- Cat C2.4 diesel engine (meets U.S. EPA Tier 4 Final emission standards for North America, EU Stage V emission standards for Europe and 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

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

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