# 303.5E2 CR, 304E2 CR, 305E2 CR, 305.5E2 CR

**CAT**®

Mini Hydraulic Excavators



|                              | 303.5E2 CR         | 304E2 CR           | 305E2 CR            | 305.5E2 CR          |
|------------------------------|--------------------|--------------------|---------------------|---------------------|
| Engine                       |                    |                    |                     |                     |
| Engine Model                 | Cat® C1.7          | Cat C2.4           | Cat C2.4            | Cat C2.4            |
| Net Power (ISO 9249)         | 17.5 kW (23.5 hp)  | 30 kW (40.2 hp)    | 30 kW (40.2 hp)     | 32.9 kW (44.2 hp)   |
| Weights                      |                    |                    |                     |                     |
| Operating Weight with Canopy | 3539 kg (7,803 lb) | 3884 kg (8,564 lb) | 5020 kg (11,069 lb) | 5259 kg (11,596 lb) |
| Operating Weight with Cab    | 3723 kg (8,209 lb) | 4039 kg (8,906 lb) | 5185 kg (11,433 lb) | 5423 kg (11,958 lb) |
| Operating Specifications     |                    |                    |                     |                     |
| Maximum Dig Depth            | 3180 mm (125 in)   | 3430 mm (135 in)   | 3670 mm (144 in)    | 3870 mm (152 in)    |
|                              |                    |                    |                     |                     |

The right machine with the right power, versatility and ease of operation required for your application.

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The Cat E2 Series Mini Hydraulic Excavators are designed to carry on the solid performance of their E Series predecessors, while adding even greater value for the customer. The new High Definition Hydraulic (HDH) System, redesigned operator station and enhanced digital control panel specially designed for Cat Mini Excavators – COMPASS (Complete, Operation, Maintenance, Performance And Security System) – are all standard features that improve performance and increase value.

# **Operator Station**

# Productivity with Comfort and Quality



#### **Joystick Controls**

The boom swing and auxiliary hydraulic functions are located at your fingertips providing smooth, easy operation. They also eliminate foot pedals and free up the floor for more room for the operator's feet. 100% pilot controls provide consistent flow and pressure throughout the life of the machine. This allows all controls to be locked out while starting the machine.



# **Operation and Hydraulic Control**

Pushing Performance to the Limit

#### **Powerful Digging, Precise Control**

The new High Definition Hydraulic (HDH) System in the E2 machines provides a load sensing and flow sharing capability leading to operational precision, efficient performance and greater control. By combining variable pump efficiency, open center valve simplicity, and a simple architecture the valve achieves controllability. The simple valve architecture reduces heat which leads to a reduction in hydraulic instability and improved overall efficiency.

#### **200 Degree Bucket Rotation**

Industry leading bucket rotation of over 200 degrees provides greater material retention during truck loading.

It also allows for easier vertical wall digging without repositioning the machine.



# **Engine**Intelligent Operation



#### **Engine**

Each of the E2 models is equipped with the engine solution to best support the power and performance required based on the weight class and application. Also, standard features like auto idle offer consistent lower engine speeds to increase engine life and offer fuel savings.

Smart Technology is a new feature of the 303.5E2. Through the integration of this technology with the U.S. EPA Tier 4 Final 23.5 hp (17.6 kW) engine, the machine is able to meet and exceed performance of the previous generation 303.5E. Additionally, testing on the 303.5E2 revealed an 8% fuel economy improvement and 7% greater efficiency over the E Series.

#### **Automatic Two Speed**

With the standard automatic two speed feature, the machine will automatically balance high speed and torque travel requirements based on job site conditions to give the operator the optimum speed and control. The machine can be put in low gear if slower travel is desired while in tight conditions.

# **COMPASS Control Panel**

### Complete, Operation, Maintenance, Performance and Security System







The COMPASS control panel on the Cat E2 Series mini hydraulic excavators was specifically designed by Caterpillar for compact excavators. It adds several new features to the machines increasing the amount of customer value. All of the following features are now standard on all E2 Series models.

Complete – All of the control panel features are standard

**O**peration – Simple operation of the pattern changer, hydraulic quick coupler and fuel gauge visibility all at the push of a button

Maintenance – Maintenance intervals, diagnostics and work hours

**P**erformance – Save up to 20% fuel while maintaining optimum performance levels

And

**S**ecurity – Anti-theft device with individual user and master passwords

System – Ergonomically designed control panel

#### **Passcode Protected Security System**

A standard anti-theft device now comes on every E2 Series compact excavator. A five digit alphanumeric password is required to start the machine when the anti-theft feature is enabled. There is a master password and up to five user passwords can be created by the owner if desired.

Keep your machine safe on a busy job site by locking it when you are not around

#### Adjustable Auxiliary Work Tool Flow Control

The E2 Series machines now have simple adjustability of the flow going down the boom and stick to the work tool. Both the standard main line and optional secondary auxiliary hydraulics can be adjusted on a scale of 1–15 through a few buttons on the control panel.

Adjust the flow to your different tools with a simple push of a button

UNLOCK the new features and experience the value of the exclusive COMPASS control panel on the E2 Series compact excavators

#### **Continuous Flow**

Once this feature is enabled through a button on the monitor, the E2 Series machines can run in continuous flow mode. With the auxiliary hydraulics on the right hand joystick, just hold the roller switch at the desired flow rate and direction for 2.5 seconds and the machine will maintain that flow rate until it is turned off.

Maintain hydraulic flow to your tools at any flow and in any direction with the simple push of a button

#### **Pattern Changer**

Change the operating pattern between excavator and backhoe with a simple press of a button from the comfort of the cab.

Exclusive push button pattern changer is safe and easy

#### **Maintenance and Performance Information**

Easily keep track of various maintenance and performance parameters of your machine.

Reset the maintenance intervals and ensure the machine is receiving proper care maximizing the life of the machine





#### **Compact Radius**

The compact radius design gives greater machine versatility and the capability to work within confined areas. This allows the operator to concentrate on the work being done without having to worry about damaging the back of the machine or other job site obstacles. On the 305E2 CR and the 305.5E2 CR, the upper body stays within 140 mm (5.5 in) of the undercarriage.

#### **Zero Tail Swing**

The 303.5E2 CR and the 304E2 CR models feature a zero tail swing design. On these models, the radius of the upper body stays entirely within the width of the undercarriage.

**Rubber Track** – The standard rubber track lets you work on multiple surfaces such as grass, pavement or stone without damaging the surface or machine.

**Steel Track Option** – Optional steel track is available for harsh conditions such as demolition. The extra weight of the steel tracks generally provides better stability when digging over the side of the machine.

**Rubber Pads** — Optional rubber pads can be attached to the steel track to prevent damage to paved surfaces and minimize noise and vibration during travel with the steel track system. This option provides the maximum overall stability. (Not available on the 303.5E2 CR and 304E2 CR.)

# Undercarriage A Strong Foundation



# **Dozer Blade**

Maximize your productivity



#### Simple Dozer Control with Float Function

The dozer function is pilot controlled from inside the cab, providing smooth, proportional operation. The standard float function is enabled by pushing the lever fully forward into the detent position. Cleanup and backfilling is easier since the operator does not have to adjust the blade height during travel.

#### **Excellent Blade Visibility**

Visibility to the blade is excellent in any position, allowing the blade to be positioned behind the operator and away from the front linkage for better access when back dragging and finishing in tight areas.

#### **Angle Blade Option**

Increase machine versatility with the Cat angle dozer blade. Built for strength and durability, the hydraulic angle blade features a hardened steel wear edge and good protection to cylinders and hydraulic lines. The angle blade can be positioned straight ahead or angled up to 25 degrees to the left or right. This reduces the number of times required to back up and reposition when backfilling so you can finish the job faster. All functions of the blade are controlled with one joystick using a proportional roller switch for the angle function.





# **Coupler and Work Tool Options**

Versatility for Any Application





#### **Couplers**

The E2 Series is available with a mechanical pin-grabber or a hydraulic pin-grabber quick coupler option. The coupler design uses a wedge to keep the tool secure to the coupler, reducing wear and maintaining a tight fit through the life of the coupler.

The hydraulic coupler allows the operator to change tools without leaving the comfort of the cab.

#### **Wide Range of Work Tools**

A wide range of Cat Work Tools have been designed specifically for the Cat Mini Hydraulic Excavators to maximize machine performance. Available work tools include:

- Buckets (heavy duty and heavy duty capacity)
- Tilting, Ditch Cleaning Buckets
- Hydraulic Hammers
- Augers
- Thumbs (not available in all regions)
- Vibratory Compactors
- Shears (boom mounted on 305E2 CR/305.5E2 CR only)
- Quick Coupler



Machines come standard with stick mounted brackets, ready to fit a hydraulic thumb for even greater machine versatility.

A factory installed bracket and relief valve make hydraulic thumb installation simple and cost-effective.



One-way and two-way auxiliary lines (combined function), including quick connections, are fitted as standard equipment so the machine comes ready to work. A standard accumulator allows for auxiliary pressure to be released, making connecting and disconnecting work tools safer and easier.





#### **Easy Service**

Extended service intervals, durable components, and ease of service access points decrease your owning and operating costs while increasing your long-term value.

- Lifting side hood allows access to air filter, main implement valve, 1-way/2-way auxiliary flow selector, accumulator, fuel filter and hydraulic tank. This eliminates the need to lift the cab when maintaining and servicing the machine.
- Swing open door provides access to major components and service points including engine oil check and fill, vertically mounted engine oil filter, starter motor and alternator.
- Easy access to the radiator and oil cooler results in simplified cleaning and reduced maintenance times.
- S.O.S<sup>SM</sup> oil sampling valve allows easy sampling of the hydraulic fluid for preventative maintenance.
- 500 hour engine oil and filter change period reduces operating costs and machine downtime.

#### **Customer Support You Can Count On**

Your Cat dealer is ready to assist you with your purchase decision and everything after.

- Financing packages are flexible to meet your needs.
- Unmatched parts availability keeps you working.
- Make comparisons of machines, with estimates of component life, preventative maintenance and cost of production.
- Your Cat dealer can evaluate the cost to repair, rebuild and replace your machine.
- For more information on Cat products, dealer services and industry solutions, visit www.cat.com.

| Engine                       |            |                     |
|------------------------------|------------|---------------------|
| Engine Model                 |            |                     |
| 303.5E2 CR                   | Cat C1.7*  |                     |
| 304E2 CR/305E2 CR/305.5E2 CR | Cat C2.4** |                     |
| Rated Net Power (ISO 9249)   |            |                     |
| 303.5E2 CR                   | 17.5 kW    | 23.5 hp             |
| 304E2 CR/305E2 CR            | 30 kW      | 40.2 hp             |
| 305.5E2 CR                   | 32.9 kW    | 44.1 hp             |
| Gross Power                  |            |                     |
| 303.5E2 CR                   | 18.5 kW    | 24.8 hp             |
| 304E2 CR/305E2 CR            | 31.2 kW    | 41.8 hp             |
| 305.5E2 CR                   | 34.1 kW    | 45.7 hp             |
| Bore                         | 87 mm      | 3.4 in              |
| Stroke                       |            |                     |
| 303.5E2 CR                   | 92.4 mm    | 3.6 in              |
| 304E2 CR/305E2 CR/305.5E2 CR | 102.4 mm   | 4 in                |
| Displacement                 |            |                     |
| 303.5E2 CR                   | 1.7 L      | 104 in <sup>3</sup> |
| 304E2 CR/305E2 CR/305.5E2 CR | 2.4 L      | 146 in <sup>3</sup> |

<sup>\*</sup> Cat C1.7 engine meets U.S. EPA Tier 4 Final/EU Stage IIIB emission standards.

<sup>\*\*</sup> Cat C2.4 engine meets U.S. EPA Tier 4 Interim/EU Stage IIIA emission standards.

| Weights*                     |         |           |
|------------------------------|---------|-----------|
| Operating Weight with Canopy |         |           |
| 303.5E2 CR                   | 3539 kg | 7,803 lb  |
| 304E2 CR                     | 3884 kg | 8,564 lb  |
| 305E2 CR                     | 5020 kg | 11,069 lb |
| 305E2 CR                     | 5259 kg | 11,596 lb |
| Operating Weight with Cab    |         |           |
| 303.5E2 CR                   | 3723 kg | 8,209 lb  |
| 304E2 CR                     | 4039 kg | 8,906 lb  |
| 305E2 CR                     | 5185 kg | 11,433 lb |
| 305E2 CR                     | 5423 kg | 11,958 lb |

<sup>\*</sup> Weight includes rubber tracks, bucket, operator, full fuel and auxiliary lines.

| Travel System                       |          |            |
|-------------------------------------|----------|------------|
| Travel Speed – High                 |          |            |
| 303.5E2 CR                          | 4.6 km/h | 2.9 mph    |
| 304E2 CR                            | 5.2 km/h | 3.2 mph    |
| 305E2 CR                            | 4.4 km/h | 2.7 mph    |
| 305.5E2 CR                          | 4.5 km/h | 2.8 mph    |
| Travel Speed – Low                  |          |            |
| 303.5E2 CR                          | 3.2 km/h | 2.0 mph    |
| 304E2 CR                            | 3.3 km/h | 2.1 mph    |
| 305E2 CR/305.5E2 CR                 | 2.8 km/h | 1.7 mph    |
| Maximum Traction Force – High Speed |          |            |
| 303.5E2 CR                          | 17.0 kN  | 3,822 lbf  |
| 304E2 CR                            | 16.9 kN  | 3,799 lbf  |
| 305E2 CR                            | 24.1 kN  | 5,418 lbf  |
| 305.5E2 CR                          | 26.8 kN  | 6,025 lbf  |
| Maximum Traction Force – Low Speed  |          |            |
| 303.5E2 CR                          | 31.1 kN  | 6,992 lbf  |
| 304E2 CR                            | 31.0 kN  | 6,969 lbf  |
| 305E2 CR                            | 45.2 kN  | 10,161 lbf |
| 305.5E2 CR                          | 47.8 kN  | 10,745 lbf |
| Ground Pressure                     |          |            |
| 303.5E2 CR                          | 31.7 kPa | 4.6 psi    |
| 304E2 CR                            | 29.5 kPa | 4.3 psi    |
| 305E2 CR                            | 30.8 kPa | 4.5 psi    |
| 305.5E2 CR                          | 32.2 kPa | 4.7 psi    |
| Service Refill Capacities           |          |            |
| Cooling System                      |          |            |
| 303.5E2 CR/304E2 CR                 | 5.5 L    | 1.5 gal    |
| 305E2 CR/305.5E2 CR                 | 10.5 L   | 2.8 gal    |
| Engine Oil                          |          |            |
| 303.5E2 CR/304E2 CR                 | 7.0 L    | 1.8 gal    |
| 305E2 CR/305.5E2 CR                 | 9.5 L    | 2.5 gal    |
| Fuel Tank                           |          |            |
| 303.5E2 CR/304E2 CR                 | 46 L     | 12.2 gal   |
| 305E2 CR/305.5E2 CR                 | 63 L     | 16.6 gal   |
| Hydraulic Tank                      |          |            |
| 303.5E2 CR/304E2 CR                 | 42.3 L   | 11.2 gal   |
| 305E2 CR/305.5E2 CR                 | 68.3 L   | 18 gal     |
| Hydraulic System                    |          |            |
| 303.5E2 CR/304E2 CR                 | 65 L     | 17.2 gal   |
| 305E2 CR/305.5E2 CR                 | 78 L     | 20.6 gal   |

| Hydraulic System*                |           |              |
|----------------------------------|-----------|--------------|
| Pump Flow                        |           |              |
| 303.5E2 CR/304E2 CR              | 100 L/min | 26.4 gal/min |
| 305E2 CR                         | 150 L/min | 39.6 gal/min |
| 305.5E2 CR                       | 163 L/min | 43.1 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      |           |              |
| 303.5E2 CR/304E2 CR              | 70 L/min  | 18.5 gal/min |
| 305E2 CR/305.5E2 CR              | 80 L/min  | 21.1 gal/min |
| Auxiliary Circuit – Secondary    | 25 L/min  | 6.6 gal/min  |
| Digging Force = Stick (standard) |           |              |
| 303.5E2 CR                       | 18.9 kN   | 4,249 lbf    |
| 304E2 CR                         | 21.6 kN   | 4,856 lbf    |
| 305E2 CR                         | 24.7 kN   | 5,553 lbf    |
| 305.5E2 CR                       | 28.9 kN   | 6,497 lbf    |
| Digging Force = Stick (long)     |           |              |
| 303.5E2 CR                       | 16.9 kN   | 3,799 lbf    |
| 304E2 CR                         | 19.5 kN   | 4,384 lbf    |
| 305E2 CR                         | 21.3 kN   | 4,788 lbf    |
| 305.5E2 CR                       | 24.8 kN   | 5,575 lbf    |
| Digging Force = Bucket           |           |              |
| 303.5E2 CR                       | 33.0 kN   | 7,419 lbf    |
| 304E2 CR                         | 37.8 kN   | 8,498 lbf    |
| 305E2 CR                         | 44.7 kN   | 10,049 lbf   |
| 305.5E2 CR                       | 50.9 kN   | 11,443 lbf   |

| *L | oad | sensing | hydraulics | with | variable | displacement | piston pum | ıp. |
|----|-----|---------|------------|------|----------|--------------|------------|-----|
|----|-----|---------|------------|------|----------|--------------|------------|-----|

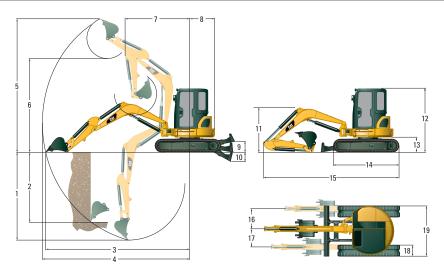
| Swing System                     |         |         |
|----------------------------------|---------|---------|
| Machine Swing Speed              | 10 rpm  |         |
| Boom Swing – Left (without stop) |         |         |
| 303.5E2 CR/305E2 CR/305.5E2 CR   | 80°     |         |
| 304E2 CR                         | 70°     |         |
| Boom Swing – Left (with stop)    |         |         |
| 303.5E2 CR/304E2 CR              | 55°     |         |
| 305E2 CR/305.5E2 CR              | 60°     |         |
| Swing – Right                    | 50°     |         |
| Blade                            |         |         |
| Width                            |         |         |
| 303.5E2 CR                       | 1780 mm | 70 in   |
| 304E2 CR                         | 1950 mm | 77 in   |
| 305E2 CR/305.5E2 CR              | 1980 mm | 78 in   |
| Height                           |         |         |
| 303.5E2 CR/304E2 CR              | 325 mm  | 13 in   |
| 305E2 CR/305.5E2 CR              | 375 mm  | 14.8 in |
| Dig Depth                        |         |         |
| 303.5E2 CR/304E2 CR              | 470 mm  | 19 in   |
| 305E2 CR/305.5E2 CR              | 555 mm  | 21.9 in |
| Lift Height                      |         |         |
| 303.5E2 CR/304E2 CR              | 400 mm  | 16 in   |

405 mm

15.9 in

305E2 CR/305.5E2 CR

#### **303.5E2 CR Dimensions**



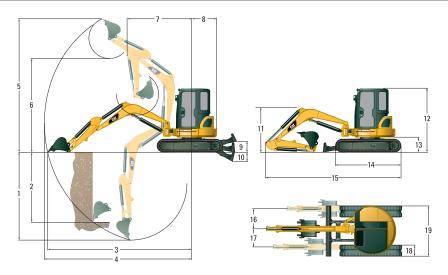
|                                     | Standar | d Stick | Long S  | Stick  |
|-------------------------------------|---------|---------|---------|--------|
| 1 Dig Depth                         | 2880 mm | 113 in  | 3180 mm | 125 in |
| 2 Vertical Wall                     | 2320 mm | 91 in   | 2470 mm | 97 in  |
| 3 Maximum Reach at Ground Level     | 5060 mm | 199 in  | 5320 mm | 209 in |
| 4 Maximum Reach                     | 5200 mm | 205 in  | 5440 mm | 214 in |
| 5 Maximum Dig Height                | 4920 mm | 194 in  | 5030 mm | 198 in |
| 6 Maximum Dump Clearance            | 3520 mm | 139 in  | 3640 mm | 143 in |
| 7 Boom In Reach                     | 2060 mm | 81 in   | 2180 mm | 86 in  |
| 8 Tail Swing                        | 890 mm  | 35 in   | 890 mm  | 35 in  |
| 9 Maximum Blade Height              | 400 mm  | 16 in   | 400 mm  | 16 in  |
| 10 Maximum Blade Depth              | 470 mm  | 19 in   | 470 mm  | 19 in  |
| 11 Boom Height in Shipping Position | 1420 mm | 56 in   | 1650 mm | 65 in  |
| 12 O/A Shipping Height              | 2500 mm | 98 in   | 2500 mm | 98 in  |
| 13 Swing Bearing Height             | 565 mm  | 22 in   | 565 mm  | 22 in  |
| 14 O/A Undercarriage Length         | 2220 mm | 87 in   | 2220 mm | 87 in  |
| <b>15</b> O/A Shipping Length       | 4730 mm | 186 in  | 4790 mm | 189 in |
| <b>16</b> Boom Swing Right          | 765 mm  | 30 in   | 765 mm  | 30 in  |
| 17 Boom Swing Left                  | 670 mm  | 26 in   | 670 mm  | 26 in  |
| <b>18</b> Track Belt/Shoe Width     | 300 mm  | 12 in   | 300 mm  | 12 in  |
| 19 O/A Track Width                  | 1780 mm | 70 in   | 1780 mm | 70 in  |

#### 303.5E2 CR Lift Capacities at Ground Level\*

| Lift Point Radius |    | 3000 mm (9'8") |       | 4000 mm (13'1") |       |
|-------------------|----|----------------|-------|-----------------|-------|
|                   |    | Front          | Side  | Front           | Side  |
| Blade Down        | kg | 1340           | 720   | 850             | 460   |
|                   | lb | 2,955          | 1,588 | 1,874           | 1,014 |
| Blade Up          | kg | 750            | 660   | 470             | 420   |
|                   | lb | 1,654          | 1,455 | 1,036           | 926   |

<sup>\*</sup> 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 long stick.

#### **304E2 CR Dimensions**



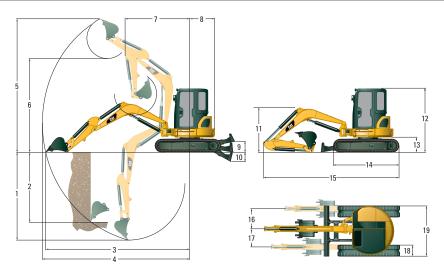
|                                     | Standar | d Stick | Stick Long Stick |        |
|-------------------------------------|---------|---------|------------------|--------|
| 1 Dig Depth                         | 3130 mm | 123 in  | 3430 mm          | 135 in |
| 2 Vertical Wall                     | 2420 mm | 95 in   | 2560 mm          | 101 in |
| 3 Maximum Reach at Ground Level     | 5220 mm | 206 in  | 5470 mm          | 215 in |
| 4 Maximum Reach                     | 5350 mm | 211 in  | 5590 mm          | 220 in |
| 5 Maximum Dig Height                | 4980 mm | 196 in  | 5070 mm          | 200 in |
| 6 Maximum Dump Clearance            | 3590 mm | 141 in  | 3690 mm          | 145 in |
| 7 Boom In Reach                     | 2110 mm | 83 in   | 2220 mm          | 87 in  |
| 8 Tail Swing                        | 975 mm  | 38 in   | 975 mm           | 38 in  |
| 9 Maximum Blade Height              | 400 mm  | 16 in   | 400 mm           | 16 in  |
| 10 Maximum Blade Depth              | 470 mm  | 19 in   | 470 mm           | 19 in  |
| 11 Boom Height in Shipping Position | 1480 mm | 58 in   | 1770 mm          | 70 in  |
| 12 O/A Shipping Height              | 2500 mm | 98 in   | 2500 mm          | 98 in  |
| 13 Swing Bearing Height             | 565 mm  | 22 in   | 565 mm           | 22 in  |
| 14 O/A Undercarriage Length         | 2220 mm | 87 in   | 2220 mm          | 87 in  |
| <b>15</b> O/A Shipping Length       | 4820 mm | 190 in  | 4930 mm          | 194 in |
| <b>16</b> Boom Swing Right          | 735 mm  | 29 in   | 735 mm           | 29 in  |
| 17 Boom Swing Left                  | 670 mm  | 26 in   | 670 mm           | 26 in  |
| <b>18</b> Track Belt/Shoe Width     | 350 mm  | 14 in   | 350 mm           | 14 in  |
| 19 O/A Track Width                  | 1950 mm | 77 in   | 1950 mm          | 77 in  |

#### 304E2 CR Lift Capacities at Ground Level\*

| Lift Point Radius |    | 3000 mm (9'8") |       | 4500 mm (14'9") |       |
|-------------------|----|----------------|-------|-----------------|-------|
|                   |    | Front          | Side  | Front           | Side  |
| Blade Down        | kg | 1570           | 910   | 860             | 480   |
|                   | lb | 3,462          | 2,007 | 1,896           | 1,058 |
| Blade Up          | kg | 820            | 820   | 430             | 430   |
|                   | lb | 1,808          | 1,808 | 948             | 948   |

<sup>\*</sup> 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 long stick.

#### **305E2 CR Dimensions**



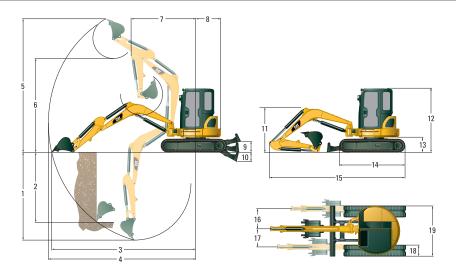
| 1 Dig Depth                         | Standar | Standard Stick |         | Long Stick |  |
|-------------------------------------|---------|----------------|---------|------------|--|
|                                     | 3280 mm | 129 in         | 3670 mm | 144 in     |  |
| 2 Vertical Wall                     | 2320 mm | 91 in          | 2630 mm | 104 in     |  |
| 3 Maximum Reach at Ground Level     | 5430 mm | 210 in         | 5810 mm | 229 in     |  |
| 4 Maximum Reach                     | 5600 mm | 220 in         | 5960 mm | 235 in     |  |
| 5 Maximum Dig Height                | 5250 mm | 207 in         | 5440 mm | 214 in     |  |
| 6 Maximum Dump Clearance            | 3720 mm | 129 in         | 3920 mm | 154 in     |  |
| 7 Boom In Reach                     | 2350 mm | 93 in          | 2530 mm | 100 in     |  |
| 8 Tail Swing                        | 1100 mm | 43 in          | 1100 mm | 43 in      |  |
| 9 Maximum Blade Height              | 405 mm  | 16 in          | 405 mm  | 16 in      |  |
| 10 Maximum Blade Depth              | 555 mm  | 22 in          | 555 mm  | 22 in      |  |
| 11 Boom Height in Shipping Position | 1750 mm | 69 in          | 2150 mm | 85 in      |  |
| <b>12</b> O/A Shipping Height       | 2550 mm | 100 in         | 2550 mm | 100 in     |  |
| 13 Swing Bearing Height             | 615 mm  | 24 in          | 615 mm  | 24 in      |  |
| 14 O/A Undercarriage Length         | 2580 mm | 102 in         | 2580 mm | 102 in     |  |
| <b>15</b> O/A Shipping Length       | 5180 mm | 204 in         | 5290 mm | 208 in     |  |
| <b>16</b> Boom Swing Right          | 785 mm  | 31 in          | 785 mm  | 31 in      |  |
| 17 Boom Swing Left                  | 695 mm  | 27 in          | 695 mm  | 27 in      |  |
| <b>18</b> Track Belt/Shoe Width     | 400 mm  | 16 in          | 400 mm  | 16 in      |  |
| 19 O/A Track Width                  | 1980 mm | 78 in          | 1980 mm | 78 in      |  |

#### 305E2 CR Lift Capacities at Ground Level\*

| Lift Point Radius |    | 3000 mm (9'8") |       | 4500 mm (14'9") |       |
|-------------------|----|----------------|-------|-----------------|-------|
|                   |    | Front          | Side  | Front           | Side  |
| Blade Down        | kg | 2340           | 1200  | 1260            | 640   |
|                   | lb | 5,159          | 2,646 | 2,778           | 1,411 |
| Blade Up          | kg | 1450           | 1070  | 760             | 570   |
|                   | lb | 3,197          | 2,359 | 1,676           | 1,257 |

<sup>\*</sup> 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.

#### **305.5E2 CR Dimensions**



|                                     | Standard Stick |        | Long Stick |        |
|-------------------------------------|----------------|--------|------------|--------|
| 1 Dig Depth                         | 3470 mm        | 137 in | 3870 mm    | 152 in |
| 2 Vertical Wall                     | 2330 mm        | 92 in  | 2730 mm    | 107 in |
| 3 Maximum Reach at Ground Level     | 5630 mm        | 222 in | 6020 mm    | 237 in |
| 4 Maximum Reach                     | 5790 mm        | 228 in | 6170 mm    | 243 in |
| 5 Maximum Dig Height                | 5330 mm        | 210 in | 5590 mm    | 220 in |
| 6 Maximum Dump Clearance            | 3820 mm        | 150 in | 4080 mm    | 161 in |
| 7 Boom In Reach                     | 2400 mm        | 94 in  | 2530 mm    | 100 in |
| 8 Tail Swing                        | 1130 mm        | 44 in  | 1130 mm    | 44 in  |
| 9 Maximum Blade Height              | 405 mm         | 16 in  | 405 mm     | 16 in  |
| 10 Maximum Blade Depth              | 555 mm         | 22 in  | 555 mm     | 22 in  |
| 11 Boom Height in Shipping Position | 1740 mm        | 69 in  | 2150 mm    | 85 in  |
| 12 O/A Shipping Height              | 2550 mm        | 100 in | 2550 mm    | 100 in |
| 13 Swing Bearing Height             | 615 mm         | 24 in  | 615 mm     | 24 in  |
| 14 O/A Undercarriage Length         | 2580 mm        | 102 in | 2580 mm    | 102 in |
| 15 O/A Shipping Length              | 5330 mm        | 210 in | 5460 mm    | 215 in |
| 16 Boom Swing Right                 | 785 mm         | 31 in  | 785 mm     | 31 in  |
| 17 Boom Swing Left                  | 695 mm         | 27 in  | 695 mm     | 27 in  |
| 18 Track Belt/Shoe Width            | 400 mm         | 16 in  | 400 mm     | 16 in  |
| 19 O/A Track Width                  | 1980 mm        | 78 in  | 1980 mm    | 78 in  |

#### 305.5E2 CR Lift Capacities at Ground Level\*

| Lift Point Radius |    | 3000 mm (9'8") |       | 4500 mm (14'9") |       |
|-------------------|----|----------------|-------|-----------------|-------|
|                   |    | Front          | Side  | Front           | Side  |
| Blade Down        | kg | 2590           | 1290  | 1380            | 690   |
|                   | lb | 5,710          | 2,844 | 3,042           | 1,521 |
| Blade Up          | kg | 1550           | 1150  | 820             | 620   |
|                   | lb | 3,417          | 2,535 | 1,808           | 1,367 |

<sup>\*</sup> 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.

#### 303.5E2 CR, 304E2 CR, 305E2 CR, 305.5E2 CR Standard Equipment

#### **Standard Equipment**

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

- 1-way and 2-way (combined function) auxiliary hydraulic lines
- Adjustable auxiliary flow control for work tools
- · Adjustable wrist rests
- Alternator
- Anti-theft security system
- · Automatic engine idle
- Automatic swing park brake
- · Automatic two speed travel
- · Auxiliary line quick disconnects
- · Boom cylinder guard
- Cab mounted work light
- Canopy with Top Guard ISO 10262 (Level 1), ROPS ISO 12117-2 and TOPS ISO 12117

- Coat hook
- COMPASS display panel
- · Cup holder
- · Continuous flow
- Control pattern changer (not available in Europe)
- Dozer blade with float function
- Floor mat
- · Foot travel pedals
- Horn
- · Hydraulic oil cooler
- Lifting eye on bucket linkage (standard equipment for all regions except Europe)
- Lockable storage box

- Low maintenance linkage pin joints
- Maintenance free battery
- · Rubber track
- · Retractable seatbelt
- Stick
  - -303.5E2 CR/304E2 CR Long stick (optional in Europe)
  - -305E2 CR/305.5E2 CR Standard stick
- · Suspension seat, vinyl covered
- Thumb Ready sticks (standard equipment for all regions except Europe)
- Travel alarm (optional in Europe)

#### 303.5E2 CR, 304E2 CR, 305E2 CR, 305.5E2 CR Optional Equipment

#### **Optional Equipment**

Optional equipment may vary. Consult your Cat dealer for details.

- · Air conditioning
- Angle dozer blade with float function
- Beacon socket for canopy machines
- Boom check valve (Europe only)
- · Boom mounted light
- Cab, radio ready with Top Guard ISO 10262 (Level 1), ROPS ISO 12117-2 and TOPS ISO 12117 with heater/defroster, interior light and windshield wiper/washer
- Ecology drain valve for hydraulic tank
- High back suspension seat, fabric covered
- Hydraulic quick coupler lines
- Lifting eye on bucket linkage (optional in Europe, standard for all other regions)
- Stick
- -303.5E2 CR/304E2 CR Standard stick (Europe only)
- -305E2 CR/305.5E2 CR Long stick

- · Mechanical quick coupler
- · Mirrors for cab and canopy
- Seatbelt, 75 mm (3 in) wide (optional in Europe, standard in all other regions)
- · Secondary auxiliary hydraulic lines
- Steel track and steel track with rubber pads

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