

# 333 Hydraulic Excavator

## **Technical Specifications**

Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.

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| Engine  |                     |
|---|---------------------|
| Engine Model Cat® C7.1                        |                     |
| Net Power                                     |                     |
| ISO 9249 193.8 kW                             | 260 hp              |
| ISO 9249 (DIN) 263 hp (metri                  | c)                  |
| Engine Power                                  |                     |
| ISO 14396 195 kW                              | 261 hp              |
| ISO 14396 (DIN) 265 hp (metri                 | c)                  |
| Bore 105 mm                                   | 4 in                |
| Stroke 135 mm                                 | 5 in                |
| Displacement 7.01 L                           | 428 in <sup>3</sup> |
| Biodiesel Capability Up to B20 <sup>(1)</sup> |                     |

- Meets China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Recommended for use up to 4500 m (14,764 ft) altitude with engine power derate above 3000 m (9,842.5 ft).
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system and alternator.
- Engine speed at 2,000 rpm.
- (1) Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels up to:
  - ✓ 100% biodiesel FAME (fatty acid methyl ester)\*
  - ✓ 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

\*For use of blends higher than 20% biodiesel, consult your Cat dealer.

| Swing Mechanism      |           |               |
|----------------------|-----------|---------------|
| Swing Speed          | 11.5 rpm  |               |
| Maximum Swing Torque | 111 kN·m  | 81,869 lbf-ft |
| Weights              |           |               |
| Operating Weight     | 32 600 kg | 71,800 lb     |

• HD Reach boom, HD R3.2 (10'6") stick, HD 1.88 m³ (2.46 yd³) bucket, 600 mm (24") triple grouser shoes, and 7700 kg (16,980 lb) counterweight.

| Track                                      |                  |                 |
|--|------------------|-----------------|
| Optional Track Shoes Width                 | 600 mm           | 24 in           |
| Optional Track Shoes Width                 | 800 mm           | 31 in           |
| Number of Shoes (each side)                | 50               |                 |
| Number of Track Rollers (each side)        | 9                |                 |
| Number of Carrier Rollers (each side)      | 2                |                 |
| Drive                                      |                  |                 |
| Gradeability                               | 35°/70%          |                 |
| Maximum Travel Speed                       | 5.9 km/h         | 3.7 mph         |
| Maximum Drawbar Pull                       | 248 kN           | 55,820 lbf      |
| Hydraulic System                           |                  |                 |
| Main System – Maximum Flow –               | 560 L/min        | 148 gal/min     |
| Implement                                  | $(280 \times 2)$ | $(74 \times 2)$ |
|  | pumps)           | pumps)          |
| Maximum Pressure – Equipment –<br>Normal   | 35 000 kPa       | 5,075 psi       |
| Maximum Pressure – Travel                  | 35 000 kPa       | 5,075 psi       |
| Maximum Pressure – Swing                   | 29 800 kPa       | 4,321 psi       |
| Boom Cylinder – Bore                       | 140 mm           | 6 in            |
| Boom Cylinder – Stroke                     | 1407 mm          | 55 in           |
| Stick Cylinder – Bore                      | 160 mm           | 6 in            |
| Stick Cylinder – Stroke                    | 1646 mm          | 65 in           |
| Bucket Cylinder – Bore                     | 145 mm           | 6 in            |
| Bucket Cylinder – Stroke                   | 1151 mm          | 45 in           |
| Service Refill Capacities                  |                  |                 |
| Fuel Tank Capacity                         | 474 L            | 125.2 gal       |
| Cooling System                             | 25 L             | 6.6 gal         |
| Engine Oil (with filter)                   | 25 L             | 6.6 gal         |
| Swing Drive                                | 11.5 L           | 3.0 gal         |
| Final Drive (each)                         | 4.5 L            | 1.2 gal         |
| Hydraulic System (including tank)          | 310 L            | 81.9 gal        |
| Hydraulic Tank<br>(including suction pipe) | 147 L            | 38.8 gal        |

| Standards   |                           |
|---|---------------------------|
| Brakes  | ISO 10265:2008            |
| Cab/Rollover Protective Structure (ROPS)          | ISO 12117-2:2008          |
| Cab/Falling Object Guard System (FOGS) (optional) | ISO 10262:1998 – Level II |

| Sound Performance                                |           |
|--|-----------|
| Exterior Sound Power Level –<br>ISO 6395:2008    | 103 dB(A) |
| Operator Sound Pressure Level –<br>ISO 6396:2008 | 73 dB(A)  |

• Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/ windows open) for extended periods or in a noisy environment.

#### **Operating Weights and Ground Pressures**

|  |                    | m (24")<br>user Shoes |                    | m (24")<br>ouser Shoes | 800 mm (31")<br>Triple Grouser Shoes |                    |
|--|--------------------|-----------------------|--------------------|------------------------|--------------------------------------|--------------------|
| Base Machine Configurations  | Weight             | Ground<br>Pressure    | Weight             | Ground<br>Pressure     | Weight                               | Ground<br>Pressure |
| Base Frame with Track Rollers and Carrier Rollers  |                    |                       |                    |                        |                                      |                    |
| 7700 kg (16,980 lb) Counterweight and Long Undercarriage<br>Base Machine                         |                    |                       |                    |                        |                                      |                    |
| HD Reach Boom + HD R3.2 (10'6") Stick<br>+ 1.88 m <sup>3</sup> (2.46 yd <sup>3</sup> ) HD Bucket | 32 600<br>(71,800) | 62<br>(9.0)           | 32 900<br>(72,600) | 63<br>(9.1)            | 33 500<br>(73,900)                   | 48<br>(6.9)        |
| HD Reach Boom + HD R2.8 (9'2") Stick<br>+ 1.88 m <sup>3</sup> (2.46 yd <sup>3</sup> ) HD Bucket  | 32 500<br>(71,600) | 62<br>(9.0)           | 32 800<br>(72,400) | 62<br>(9.0)            | 33 500<br>(73,700)                   | 48<br>(6.9)        |

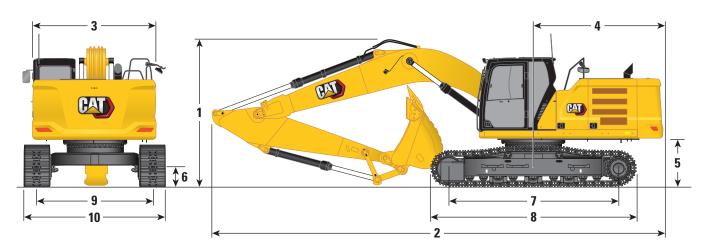
All operating weights include a 90% fuel tank with 75 kg (165 lb) operator.

## **Major Component Weights**

|  | kg     | lb     |
|--|--------|--------|
| Base Machine Weight (with 7700 kg [16,980 lb] counterweight, upper frame, long undercarriage with track rollers and two boom cylinders – does not include boom, stick, bucket, stick cylinder, bucket cylinders, tracks, fuel tank and operator) | 22 130 | 48,770 |
| Track Shoes:   |        |        |
| 600 mm (24") Width, 11 mm (0.43") Thick, Triple Grouser Track Shoes  | 3650   | 8,040  |
| 600 mm (24") Width, 14.5 mm (0.57") Thick, Double Grouser Track Shoes  | 3980   | 8,770  |
| 800 mm (31") Width, 13 mm (0.51") Thick, Triple Grouser Track Shoes with Step Extension  | 4610   | 10,160 |
| Two Boom Cylinders   | 500    | 1,100  |
| Weight of 90% Fuel Tank and 75 kg (165 lb) Operator  | 470    | 1,040  |
| Counterweight:   |        |        |
| 7700 kg (16,980 lb) Counterweight  | 7700   | 16,970 |
| Booms (including lines, pins, stick cylinder):   |        |        |
| 6.15 m (20'2") HD Reach Boom   | 2770   | 6,110  |
| 5.55 m (18'2") Mass Boom   | 2390   | 5,270  |
| 10.2 m (33'6") Super Long Reach Boom   | 3250   | 7,160  |
| Sticks (including lines, pins, bucket cylinder, bucket linkage):   |        |        |
| R2.8DB (9'2") HD Reach Stick   | 1780   | 3,920  |
| R3.2DB (10'6") HD Reach Stick  | 1870   | 4,120  |
| M2.5DB (8'2") Mass Stick   | 1670   | 3,680  |
| SLR7.85A (25'9") Super Long Reach Stick  | 1580   | 3,480  |
| Buckets (without linkage, with tips and side cutters):   |        |        |
| 1.64 m³ (2.15 yd³) SD, DB Linkage  | 1770   | 3,900  |
| 1.88 m <sup>3</sup> (2.46 yd <sup>3</sup> ) HD, DB Linkage   | 1680   | 3,700  |
| 1.91 m³ (2.50 yd³) SDS, DB Linkage   | 1930   | 4,250  |
| 0.57 m³ (0.75 yd³) DC, A Linkage   | 390    | 860    |
| 0.74 m³ (0.97 yd³) DC, A Linkage   | 460    | 1,010  |

#### **Dimensions**

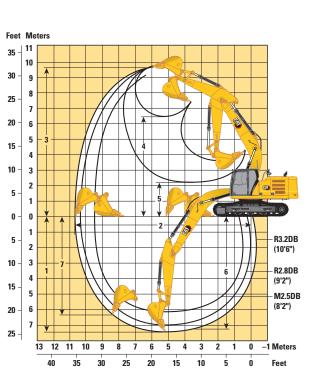
All dimensions are approximate and may vary depending on bucket selection.

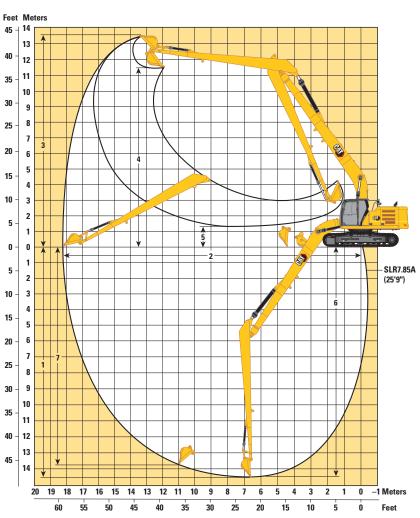


| Boom Options                                 | HD Reach Boom<br>6.15 m (20'2") |                      |                      | Mass<br>5.55 m       |                                | SLR B<br>10.2 m (    |                               |                      |
|--|---------------------------------|----------------------|----------------------|----------------------|--------------------------------|----------------------|-------------------------------|----------------------|
| Stick Options                                | HD R2.8D                        |                      | ch Stick<br>HD R3.2D | B (10'6")            | Mass Stick<br>') M2.5DB (8'2") |                      | SLR Stick<br>SLR7.85A (25'9") |                      |
| 1 Machine Height:                            |                                 |                      |                      |                      |                                |                      |                               |                      |
| Top of Cab Height                            | 3060 mm                         | 10'0"                | 3060 mm              | 10'0"                | 3060 mm                        | 10'0"                | 3060 mm                       | 10'0"                |
| Top of FOGS Height                           | 3200 mm                         | 10'6"                | 3200 mm              | 10'6"                | 3200 mm                        | 10'6"                | 3200 mm                       | 10'6"                |
| Handrail Height                              | 3060 mm                         | 10'0"                | 3060 mm              | 10'0"                | 3060 mm                        | 10'0"                | 3060 mm                       | 10'0"                |
| With Boom/Stick/Bucket Installed             | 3650 mm                         | 12'0"                | 3580 mm              | 11'9"                | 3530 mm                        | 11'7"                | 3230 mm                       | 10'7"                |
| With Boom/Stick Installed                    | 3650 mm                         | 12'0"                | 3580 mm              | 11'9"                | 3440 mm                        | 11'3"                | 3230 mm                       | 10'7"                |
| With Boom Installed                          | 3060 mm                         | 10'0"                | 3060 mm              | 10'0"                | 3060 mm                        | 10'0"                | 3060 mm                       | 10'0"                |
| 2 Machine Length:                            |                                 |                      |                      |                      |                                |                      |                               |                      |
| With Boom/Stick/Bucket Installed             | 10 450 mm                       | 34'3"                | 10 450 mm            | 34'3"                | 9870 mm                        | 32'5"                | 14 480 mm                     | 47'6"                |
| With Boom/Stick Installed                    | 10 450 mm                       | 34'3"                | 10 450 mm            | 34'3"                | 9850 mm                        | 32'4"                | 14 480 mm                     | 47'6"                |
| With Boom Installed                          | 9230 mm                         | 30'3"                | 9230 mm              | 30'3"                | 8600 mm                        | 28'3"                | 13 390 mm                     | 43'11"               |
| 3 Upperframe Width                           | 2930 mm                         | 9'7"                 | 2930 mm              | 9'7"                 | 2930 mm                        | 9'7"                 | 2930 mm                       | 9'7"                 |
| 4 Tail Swing Radius                          | 3130 mm                         | 10'3"                | 3130 mm              | 10'3"                | 3130 mm                        | 10'3"                | 3130 mm                       | 10'3"                |
| 5 Counterweight Clearance                    | 1120 mm                         | 3'8"                 | 1120 mm              | 3'8"                 | 1120 mm                        | 3'8"                 | 1120 mm                       | 3'8"                 |
| 6 Ground Clearance                           | 480 mm                          | 1'7"                 | 480 mm               | 1'7"                 | 490 mm                         | 1'7"                 | 490 mm                        | 1'7"                 |
| 7 Track Length – Length to Center of Rollers | 3990 mm                         | 13'1"                | 3990 mm              | 13'1"                | 3990 mm                        | 13'1"                | 3990 mm                       | 13'1"                |
| 8 Track Length – Overall Length              | 4860 mm                         | 15'11"               | 4860 mm              | 15'11"               | 4860 mm                        | 15'11"               | 4850 mm                       | 15'11"               |
| 9 Track Gauge – Extended                     | 2740 mm                         | 9'0"                 | 2740 mm              | 9'0"                 | 2740 mm                        | 9'0"                 | 2740 mm                       | 9'0"                 |
| <b>10</b> Undercarriage Width:               |                                 |                      |                      |                      |                                |                      |                               |                      |
| 600 mm (24") Shoes                           | 3340 mm                         | 10'11"               | 3340 mm              | 10'11"               | 3340 mm                        | 10'11"               | 3340 mm                       | 10'11"               |
| 800 mm (31") Shoes                           | 3540 mm                         | 11'7"                | 3540 mm              | 11'7"                | 3540 mm                        | 11'7"                | 3540 mm                       | 11'7"                |
| Bucket Type                                  | HD HD                           |                      | )                    | HD                   |                                | DC                   |                               |                      |
| Bucket Capacity                              | 1.88 m <sup>3</sup>             | 2.46 yd <sup>3</sup> | 1.88 m <sup>3</sup>  | 2.46 yd <sup>3</sup> | 2.36 m <sup>3</sup>            | 3.09 yd <sup>3</sup> | 0.57 m <sup>3</sup>           | 0.75 yd <sup>3</sup> |
| Bucket Tip Radius                            | 1784 mm                         | 5'10"                | 1784 mm              | 5'10"                | 1787 mm                        | 5'10"                | 1073 mm                       | 3'6"                 |

#### **Working Ranges**

All dimensions are approximate and may vary depending on bucket selection.





| Boom Options  | HD Reach Boom<br>6.15 m (20'2")                      |                      |                     |                      | Boom<br>(18'2")     | SLR Boom<br>10.2 m (33'6")    |                     |                      |
|---|--|----------------------|---------------------|----------------------|---------------------|-------------------------------|---------------------|----------------------|
| Stick Options   | HD Reach Stick<br>HD R2.8DB (9'2") HD R3.2DB (10'6") |                      |                     |                      | Stick<br>B (8'2")   | SLR Stick<br>SLR7.85A (25'9") |                     |                      |
| 1 Maximum Digging Depth                                       | 6970 mm  | 22'10"               | 7370 mm             | 24'2"                | 6130 mm             | 20'1"                         | 14 590 mm           | 47'10"               |
| 2 Maximum Reach at Ground Line                                | 10 390 mm  | 34'1"                | 10 680 mm           | 35'0"                | 9470 mm             | 31'1"                         | 18 270 mm           | 59'11"               |
| 3 Maximum Cutting Height                                      | 9770 mm  | 32'1"                | 9660 mm             | 31'8"                | 9150 mm             | 30'0"                         | 13 620 mm           | 44'8"                |
| 4 Maximum Loading Height                                      | 6540 mm  | 21'5"                | 6510 mm             | 21'4"                | 5970 mm             | 19'7"                         | 11 590 mm           | 38'0"                |
| 5 Minimum Loading Height                                      | 2580 mm  | 8'6"                 | 2170 mm             | 7'1"                 | 2440 mm             | 8'0"                          | 1330 mm             | 4'4"                 |
| <b>6</b> Maximum Depth Cut for 2440 mm (8'0")<br>Level Bottom | 6800 mm  | 22'4"                | 7200 mm             | 23'7"                | 5940 mm             | 19'6"                         | 14 490 mm           | 47'6"                |
| 7 Maximum Vertical Wall Digging Depth                         | 5270 mm  | 17'3"                | 6240 mm             | 20'6"                | 4380 mm             | 14'4"                         | 13 870 mm           | 45'6"                |
| Bucket Digging Force (ISO)                                    | 197 kN   | 44,290 lbf           | 197 kN              | 44,290 lbf           | 211 kN              | 47,430 lbf                    | 62 kN               | 13,940 lbf           |
| Stick Digging Force (ISO)                                     | 164 kN   | 36,870 lbf           | 147 kN              | 33,050 lbf           | 153 kN              | 34,400 lbf                    | 45 kN               | 10,120 lbf           |
| Bucket Type   | HD   |                      | HD                  |                      | DC                  |                               | DC                  |                      |
| Bucket Capacity   | 1.88 m <sup>3</sup>                                  | 2.46 yd <sup>3</sup> | 1.88 m <sup>3</sup> | 2.46 yd <sup>3</sup> | 2.36 m <sup>3</sup> | 3.09 yd <sup>3</sup>          | 0.57 m <sup>3</sup> | 0.75 yd <sup>3</sup> |
| Bucket Tip Radius   | 1784 mm  | 5'10"                | 1784 mm             | 5'10"                | 1787 mm             | 5'10"                         | 1073 mm             | 3'6"                 |

#### **Bucket Specifications and Compatibility**

|                           |         |         |        |           |          |         |        |      | 7700 kg           | (16,980 lb) Counte | erweight          |
|---------------------------|---------|---------|--------|-----------|----------|---------|--------|------|-------------------|--------------------|-------------------|
|                           |         | Wi      | dth    | Cap       | acity    | We      | ight   | Fill | HD R              | SLR Boom           |                   |
|                           | Linkage | mm      | in     | m³        | yd³      | kg      | kg lb  |      | HD R3.2 m (10'6") | HD R2.8 m (9'2")   | 7.85A (25'9") SLF |
| Pin-On (No Quick Coupler) | ·       |         |        |           |          |         |        |      |                   |                    |                   |
| Heavy Duty (HD)           | DB      | 1550    | 61     | 1.88      | 2.46     | 1621    | 3,574  | 100  | •                 | •                  |                   |
|                           | DB      | 1550    | 61     | 1.88      | 2.46     | 1576    | 3,574  | 100  | •                 | •                  |                   |
|                           | DB      | 1600    | 63     | 2.00      | 2.62     | 1532    | 3,377  | 100  | •                 | •                  |                   |
| Severe Duty (SD)          | DB      | 1400    | 56     | 1.64      | 2.14     | 1689    | 4,171  | 90   | •                 | •                  |                   |
|                           | DB      | 1500    | 56     | 1.90      | 2.49     | 1848    | 4,074  | 90   | •                 | •                  |                   |
|                           | DB      | 1550    | 56     | 1.90      | 2.49     | 1877    | 4,138  | 90   | •                 | •                  |                   |
|                           | DB      | 1550    | 56     | 1.90      | 2.49     | 1833    | 4,041  | 90   | •                 | •                  |                   |
| Ditch Cleaning (DC)       | А       | 1200    | 48     | 0.57      | 0.74     | 388     | 855    | 100  |                   |                    | •                 |
|                           | Ma      | ximum   | load w | ith pin-c | n (payl  | oad + b | ucket) | kg   | 5055              | 5342               | 1435              |
|                           |         |         |        |           |          |         |        | lb   | 11,144            | 11,777             | 3,164             |
| With Pin Grabber Quick Co | upler   |         |        |           |          |         |        |      |                   |                    |                   |
| Heavy Duty (HD)           | DB      | 1550    | 61     | 1.88      | 2.46     | 1621    | 3,574  | 100  | $\Theta$          | $\Theta$           |                   |
|                           | DB      | 1550    | 61     | 1.88      | 2.46     | 1576    | 3,574  | 100  | $\Theta$          | •                  |                   |
|                           | DB      | 1600    | 63     | 2.00      | 2.62     | 1532    | 3,377  | 100  | •                 | •                  |                   |
| Severe Duty (SD)          | DB      | 1400    | 56     | 1.64      | 2.14     | 1689    | 4,171  | 90   | •                 | •                  |                   |
|                           | DB      | 1500    | 56     | 1.90      | 2.49     | 1848    | 4,074  | 90   | $\Theta$          | •                  |                   |
|                           | DB      | 1550    | 56     | 1.90      | 2.49     | 1877    | 4,138  | 90   | $\Theta$          | •                  |                   |
|                           | DB      | 1550    | 56     | 1.90      | 2.49     | 1833    | 4,041  | 90   | $\Theta$          | •                  |                   |
| Ditch Cleaning (DC)       | А       | 1200    | 48     | 0.57      | 0.74     | 388     | 855    | 100  |                   |                    | $\Diamond$        |
|                           | Max     | imum lo | ad wit | h coupl   | er (payl | oad + b | ucket) | kg   | 4529              | 4816               | 909               |
|                           |         |         |        |           |          |         |        | lb   | 9,984             | 10,617             | 2,003             |

The above loads are in compliance with hydraulic excavator standard EN474-5:2006+A3:2013, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451:2007.

Bucket weight with General Duty tips.

#### **Maximum Material Density:**

- 2100 kg/m³ (3,500 lb/yd³)
- 1800 kg/m³ (3,000 lb/yd³)
- ⊖ 1500 kg/m³ (2,500 lb/yd³)
- $\bigcirc$  900 kg/m<sup>3</sup> (1,500 lb/yd<sup>3</sup>)

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

| <b>Attachments Offering Guide</b>   |   |                       |                   |               |
|-------------------------------------|---|-----------------------|-------------------|---------------|
| Not all Attachments are available i | in all regions. Consult your Cat dealer for con | figurations available | e in your region. |               |
| ✓ Match                             | No Match  |                       |                   |               |
| PIN-ON ATTACHMENTS                  |   |                       |                   |               |
| Boom Type                           |   | HD F                  | Reach             | Mass Reach    |
| Stick Length                        |   | HD R2.8 m (9'2")      | HD R3.2 m (10'6") | M2.5 m (8'2") |
| Hydraulic Hammers                   | H130 GC   | ✓                     | ✓                 | ✓             |
|                                     | H130 GC S                                       | ✓                     | ✓                 | ✓             |
|                                     | H140 GC   | ✓                     | ✓                 | ✓             |
|                                     | H140 GC S                                       | ✓                     | ✓                 | ✓             |
|                                     | H160 GC   | ✓                     | ✓                 | ✓             |
|                                     | H160 GC S                                       | ✓                     | ✓                 | ✓             |
|                                     | H180 GC S                                       |                       |                   | ✓             |

## **333 Standard and Optional Equipment**

#### **Standard and Optional Equipment**

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

|  | Standard | Optional |
|--|----------|----------|
| BOOMS, STICKS AND LINKAGES                                   |          |          |
| 6.15 m (20'2") HD Reach boom                                 |          | ✓        |
| 5.55 m (18'2") Mass boom                                     |          | ✓        |
| 10.2 m (33'6") Super Long Reach boom                         |          | ✓        |
| 2.8 m (9'2") HD Reach stick                                  |          | ✓        |
| 3.2 m (10'6") HD Reach stick                                 |          | ✓        |
| 2.5 m (8'2") Mass stick                                      |          | ✓        |
| 7.85 m (25'9") Super Long Reach stick                        |          | ✓        |
| Bucket linkage, DB-type with lifting eye                     |          | ✓        |
| Bucket linkage, DB-type without lifting eye                  |          | ✓        |
| Bucket linkage, A-type with lifting eye                      |          | ✓        |
| Bucket linkage, A-type without lifting eye                   |          | ✓        |
| САВ  |          |          |
| ROPS   | ✓        |          |
| High-resolution 203 mm (8")<br>LCD touchscreen monitor       | ✓        |          |
| Auto bi-level air conditioner                                | ✓        |          |
| Keyless push-to-start engine control                         | ✓        |          |
| Height-adjustable console, three steps with tool             | ✓        |          |
| Fixed left-side console                                      | ✓        |          |
| Mechanical-suspension seat                                   | ✓        |          |
| 51 mm (2") seat belt   | ✓        |          |
| Console mounted radio (with Bluetooth® pairing and USB port) | ✓        |          |
| 24V DC outlet  | ✓        |          |
| Document storage   | ✓        |          |
| Cup holder   | ✓        |          |
| Beverage holder  | ✓        |          |
| Openable two-piece front window                              | ✓        |          |
| Rear window emergency exit                                   | ✓        |          |
| Upper radial wiper with washer                               | ✓        |          |
| Openable steel hatch   | ✓        |          |
| LED dome light   | ✓        |          |
| Roller front sunscreen                                       | ✓        |          |
| Roller rear sunscreen  |          | ✓        |
| Washable floor mat   | ✓        |          |
| Beacon ready   | ✓        |          |
| Cat Stick Steer  |          | ✓        |

|   | Standard | Optional |
|---|----------|----------|
| CAT TECHNOLOGY  |          |          |
| Cat Product Link <sup>TM</sup>  | ✓        |          |
| Remove Flash  | ✓        |          |
| Remote Troubleshoot   | ✓        |          |
| Auto hammer stop  | ✓        |          |
| ELECTRICAL SYSTEM   |          |          |
| Maintenance-free 1,000 CCA batteries  | ✓        |          |
| Centralized electrical disconnect switch  | ✓        |          |
| Programmable time-delay working lights  | ✓        |          |
| LED chassis, boom and cab lights  | ✓        |          |
| ENGINE  |          |          |
| Cat® C7.1 single turbo diesel engine  | ✓        |          |
| Two selectable modes: Power, Smart  | ✓        |          |
| 4500 m (14,760 ft) altitude capability with engine power derate above 3000 m (9,840 ft) | ✓        |          |
| Electric cooling fans with auto-reverse function  | ✓        |          |
| Auto engine speed control   | ✓        |          |
| Auto engine idle shutdown   | ✓        |          |
| Electric fuel priming pump  | ✓        |          |
| 50° C (122° F) high-ambient cooling capacity  | ✓        |          |
| –18° C (0° F) cold start capability   | ✓        |          |
| Double element air filter with integrated pre-cleaner                                   | ✓        |          |
| $2 \times 115$ Amp dual alternator  | ✓        |          |
| Two-stage fuel filtration system with water separator and indicator                     | ✓        |          |

(continued on next page)

## **333 Standard and Optional Equipment**

#### Standard and Optional Equipment (continued)

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

|   | Standard | Optional |
|---|----------|----------|
| HYDRAULIC SYSTEM  |          |          |
| Electronic main control valve                               | ✓        |          |
| Boom and stick regeneration circuits                        | ✓        |          |
| Tandem type electronic main pump                            | ✓        |          |
| Auto warm up  | ✓        |          |
| Auto two-speed travel                                       | ✓        |          |
| Boom and stick drift reduction valve                        | ✓        |          |
| Element type main hydraulic filter                          | ✓        |          |
| SAFETY AND SECURITY   |          |          |
| Rearview camera   | ✓        |          |
| Right-hand-side mirror                                      |          | ✓        |
| Right-hand-sideview cameras                                 | ✓        |          |
| Ground-level engine shutoff switch                          | ✓        |          |
| Right-hand handrail and hand hold                           | ✓        |          |
| Signaling/warning horn                                      | ✓        |          |
| Service platform with anti-skid plate and countersunk bolts | ✓        |          |
| Hydraulic lock out lever neutralizes all controls           | ✓        |          |
| Travel alarm  |          | ✓        |
| Swing alarm   |          | ✓        |

|   | Standard     | Optional |
|---|--------------|----------|
| SERVICE AND MAINTENANCE                             |              |          |
| Side entry to service platform                      | $\checkmark$ |          |
| Grouped location of engine oil and fuel filters     | ✓            |          |
| Scheduled Oil Sampling (S·O·S <sup>SM</sup> ) ports | ✓            |          |
| Ground-level 2nd dipstick for engine oil            | ✓            |          |
| Integrated vehicle health management system         |              | ✓        |
| UNDERCARRIAGE AND STRUCTURES                        |              |          |
| Long undercarriage                                  | ✓            |          |
| 600 mm (24") double grouser track shoes             |              | ✓        |
| 600 mm (24") triple grouser track shoes             |              | ✓        |
| 800 mm (31") triple grouser track shoes             |              | ✓        |
| Three-piece segmented track guiding guards          |              | ✓        |
| Full-length segmented track guiding guards          |              | ✓        |
| Travel motor guards                                 | ✓            |          |
| Bottom guards                                       | ✓            |          |
| Swivel guard  | ✓            |          |
| Grease lubricated track links                       | ✓            |          |
| 7700 kg (16,980 lb) counterweight                   | ✓            |          |
| Tie-down points (ISO 15818 compliant)               | ✓            |          |

#### **Dealer Installed Kits and Attachments**

Attachments may vary. Consult your Cat dealer for details.

#### **CAB**

- RH electrical pedal (two-way) for tool control
- LH electrical pedal (two-way) for tool control
- Radial lower wiper for two piece (70/30) windshield, with washer
- Polycarbonate roof hatch
- P5A laminated glass front windshield and roof hatch (for EU demolition regulation)

#### **GUARDS**

- Falling object guard system (not compatible with cab light cover, rain protector)
- Mesh guard full front (not compatible with cab light cover, rain protector)
- Mesh guard lower half front
- Full protecting vandalism guard (not compatible with cab light cover, rain protector)

#### **SERVICE AND MAINTENANCE**

• Grease gun holder

#### **SAFETY AND SECURITY**

- · Bluetooth receiver kit
- 75 mm (3") retractable seat belt

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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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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