

# Product Specifications For 335 - Tier 4 / Stage V



## Engine

**Net Power - ISO 9249** 273 hp

**Net Power - ISO 9249 (DIN)** 277 hp (metric)

**Engine Model** Cat® C7.1

**Engine Power - ISO 14396** 275 hp

**Engine Power - ISO 14396 (DIN)** 279 hp (metric)

**Bore** 4 in

**Stroke** 5 in

**Displacement** 428 in<sup>3</sup>

**Biodiesel Capability** Up to B20<sup>1</sup>

**Emissions** Meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.

**Note (1)** Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system, and alternator with engine speed at 2,200 rpm. Advertised power is tested per the specified standard in effect at the time of manufacture.

**Note (2)**

<sup>1</sup>Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels\*\* up to: 20% biodiesel FAME (fatty acid methyl ester)\* or 100% renewable diesel, HVO (hydrotreated 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. \*Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer). \*\*Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

## Weights

**Operating Weight** 77000 lb

**Note** Long undercarriage Reach boom, R3.2 (10'6") stick, Heavy Duty (HD) 1.54 m<sup>3</sup> (2.01 yd<sup>3</sup>) bucket, 600 mm (24") triple grouser shoes, 5000 kg (11,202 lb) counterweight and 3440 mm (11'3") blade.

## Working Ranges And Forces

**Maximum Digging Depth** 22.9 ft

**Boom** Reach 6.15 m (20'2")

**Stick** Reach 3.2 m (10'6")

**Bucket** HD 1.54 m<sup>3</sup> (2.01 yd<sup>3</sup>)

**Maximum Reach at Ground Level** 34.9 ft

**Maximum Cutting Height** 36.6 ft

**Maximum Loading Height** 26.1 ft

**Minimum Loading Height** 9.5 ft

**Maximum Depth Cut for 2440 mm (8 ft) Level Bottom** 22.4 ft

**Maximum Vertical Wall Digging Depth** 19 ft

<b>Bucket Digging Force - ISO</b>	46482 lbf
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<b>Stick Digging Force - ISO</b>	32319 lbf
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## Hydraulic System

<b>Main System - Maximum Flow</b>	560 l/min (148 gal/min)
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<b>Maximum Pressure - Equipment</b>	5075 psi
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<b>Maximum Pressure - Equipment - Lift Mode</b>	5510 psi
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<b>Maximum Pressure - Travel</b>	5075 psi
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<b>Maximum Pressure - Swing</b>	4175 psi
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## Swing Mechanism

<b>Swing Speed</b>	10.8 r/min
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<b>Note (1)</b>	For CE-marked machine default value may be set lower.
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<b>Maximum Swing Torque</b>	79455 lbf·ft
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## Service Refill Capacities

<b>Fuel Tank Capacity</b>	97.2 gal (US)
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<b>Cooling System</b>	3.3 gal (US)
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<b>Engine Oil</b>	6.6 gal (US)
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<b>Swing Drive</b>	2.9 gal (US)
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<b>Final Drive - Each</b>	1.8 gal (US)
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<b>Hydraulic System - Including Tank</b>	92.5 gal (US)
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<b>Hydraulic Tank</b>	40.7 gal (US)
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DEF Tank

7 gal (US)

## Dimensions

Boom

Reach 6.15 m (20'2")

Stick

Reach 3.2 m (10'6")

Bucket

HD 1.54 m<sup>3</sup> (2.01 yd<sup>3</sup>)

Shipping Height - Top of Cab

10.7 ft

Handrail Height

11.2 ft

Shipping Length

32.2 ft

Tail Swing Radius

6.2 ft

Counterweight Clearance

3.8 ft

Ground Clearance

1.6 ft

Track Length

16.5 ft

Length to Center of Rollers

13.3 ft

Track Gauge

9 ft

Transport Width

11 ft

## Air Conditioning System

**Air Conditioning**

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.9 kg (1.98 lb) of refrigerant which has a CO<sub>2</sub> equivalent of 1.287 metric tonnes (1.418 tons).

## Sustainability

Recyclability

98%

# 335 - Tier 4 / Stage V Standard Equipment

## NOTE

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

## BOOM AND STICKS

6.15 m (20'2") Reach boom

## CAB

Rollover Protective Structure (ROPS)

Air-adjustable seat with heat (Deluxe only)

Auto-adjustable seat with heat and air ventilation (Premium only)

High-resolution 254 mm (10 inch) LCD touchscreen monitor

## CAT TECHNOLOGY

VisionLink®

Remote Flash

Remote Troubleshoot

Work tool recognition and tracking (PL161)

Cat Grade with 2D

Cat Assist

Cat Payload

## ELECTRICAL SYSTEM

Maintenance-free batteries

LED chassis light, left-hand/right-hand boom lights, cab lights -1800 lumens

Centralized electrical disconnect switch

Programmable time delay working lights after engine shutdown

## ENGINE

Cat C7.1 twin turbo diesel engine

Three selectable modes: Power, Smart, Eco

52°C (126° F) high-ambient cooling capacity with derate

-18°C (0° F) cold start capability

Sealed double element air filter with integrated precleaner

1 x 145 Amp. dual alternator

Electric fuel priming pump

Hydraulic and reversible demand fan

Two-stage fuel filtration system with water separator and indicator

## HYDRAULIC SYSTEM

Electric main control valve

Boom and stick regeneration circuits

Auto hydraulic oil warm up  
Auto two-speed travel  
Boom and stick drift reduction valve  
Element type main hydraulic filter

## **SAFETY AND SECURITY**

2D E-Fence  
Auto hammer stop  
Rear- and right-side-view cameras  
Right-hand handrail and hand hold  
Service platform with anti-skid plate and countersunk bolts  
Hydraulic lockout lever neutralizes all controls  
Ground level-accessible secondary engine shutoff switch in cab  
Lockable disconnect switch  
Signaling/warning horn

## **SERVICE AND MAINTENANCE**

Scheduled Oil Sampling (S·O·S<sup>SM</sup>) ports  
Grouped location for engine oil and fuel filter  
Integrated vehicle health management system

## **UNDERCARRIAGE AND STRUCTURES**

Grease lubricated track  
Tie down points on base frame

## **335 - Tier 4 / Stage V Optional Equipment**

### **NOTE**

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

## **BOOM AND STICKS**

3.2 m (10'6") Reach stick  
3.75 m (12'4") Reach stick

## **CAB**

Operator Protective Guards (OPG)  
Cat Stick Steer  
Auxiliary relay

## **CAT TECHNOLOGY**

VisionLink Productivity  
Operator Coaching  
Cat Grade with 2D with Attachment Ready Option (ARO)  
Cat Grade with 3D (single or dual GNSS)

Cat Grade 3D Ready  
Cat Grade Connectivity  
Cat Advanced Payload  
Cat Tiltrotator (TRS) integration

## **ENGINE**

-32° C (-25° F) cold start capability

## **HYDRAULIC SYSTEM**

SmartBoom™ (Europe only)  
Hydraulic efficiency monitoring

## **SAFETY AND SECURITY**

Cat Command (remote control)  
360° visibility  
Swing alarm  
Inspection lighting

## **UNDERCARRIAGE AND STRUCTURES**

5000 kg (11,020 lb) counterweight  
7700 kg (16,980 lb) counterweight  
600 mm (24") triple grouser track shoes  
700 mm (28") triple grouser track shoes  
850 mm (33") triple grouser track shoes  
3440 mm (11'3") blade  
3600 mm (11'10") blade