

# Product Specifications For 333 - Tier 3



## Engine

<b>Net Power - ISO 9249</b>	193.8 kW
<b>Net Power - ISO 9249 (DIN)</b>	263 hp (metric)
<b>Engine Model</b>	Cat® C7.1
<b>Engine Power - ISO 14396</b>	195 kW
<b>Engine Power - ISO 14396 (DIN)</b>	265 hp (metric)
<b>Bore</b>	105 mm
<b>Stroke</b>	135 mm
<b>Displacement</b>	7.01 l
<b>Biodiesel Capability</b>	Up to B20 <sup>1</sup>
<b>Emissions</b>	Cat C7.1 engine emits equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
<b>Note (1)</b>	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 rated engine speed at 2,000 rpm. Advertised power is tested per the specified standard in effect at the time of manufacture.
<b>Note (2)</b>	<sup>1</sup> Cat are compatible with diesel fuel blended with the following lower-carbon intensity fuels** up to: 100% 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. *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

<b>Operating Weight</b>	32600 kg
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**Note** Long undercarriage, Heavy Duty (HD) Reach boom, HD R3.2 (10'6") stick, HD 2 m<sup>3</sup> (2.62 yd<sup>3</sup>) bucket, 600 mm (24") triple grouser shoes and 7700 kg (16,980 lb) counterweight.

## Working Ranges And Forces

<b>Maximum Digging Depth</b>	7370 mm
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<b>Boom</b>	HD Reach 6.15 m (20'2")
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<b>Stick</b>	HD Reach 3.2 m (10'6")
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<b>Bucket</b>	HD 2 m <sup>3</sup> (2.62 yd <sup>3</sup> )
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<b>Maximum Reach at Ground Level</b>	10680 mm
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<b>Maximum Cutting Height</b>	9660 mm
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<b>Maximum Loading Height</b>	6510 mm
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<b>Minimum Loading Height</b>	2170 mm
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<b>Maximum Depth Cut for 2440 mm (8 ft) Level Bottom</b>	7200 mm
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<b>Maximum Vertical Wall Digging Depth</b>	6420 mm
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<b>Bucket Digging Force - ISO</b>	197 kN
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<b>Stick Digging Force - ISO</b>	147 kN
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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>	35000 kPa
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Maximum Pressure - Travel	35000 kPa
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Maximum Pressure - Swing	29800 kPa
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## Swing Mechanism

Swing Speed	11.5 r/min
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Note (1)	For CE-marked machine default value may be set lower.
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Maximum Swing Torque	111 kN·m
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## Service Refill Capacities

Fuel Tank Capacity	474 l
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Cooling System	25 l
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Engine Oil	25 l
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Swing Drive - Each	11.5 l
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Final Drive - Each	4.5 l
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Hydraulic System - Including Tank	310 l
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Hydraulic Tank	147 l
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## Dimensions

Boom	HD Reach 6.15 m (20'2")
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Stick	HD Reach 3.2 m (10'6")
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Bucket	HD 2 m <sup>3</sup> (2.62 yd <sup>3</sup> )
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Shipping Height - Top of Cab	3060 mm
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Handrail Height	3060 mm
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<b>Shipping Length</b>	10450 mm
<b>Tail Swing Radius</b>	3130 mm
<b>Counterweight Clearance</b>	1120 mm
<b>Ground Clearance</b>	480 mm
<b>Track Length</b>	4860 mm
<b>Length to Center of Rollers</b>	3990 mm
<b>Track Gauge</b>	2740 mm
<b>Transport Width</b>	3340 mm

## 333 - Tier 3 Standard Equipment

### NOTE

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

### CAB

Rollover Protective Structure (ROPS)  
High-resolution touchscreen monitor  
Mechanically adjustable seat suspension

### CAT TECHNOLOGY

VisionLink®  
Remote Flash

### ELECTRICAL SYSTEM

Maintenance-free 1,000 CCA batteries  
Centralized electrical disconnect switch  
Programmable time-delay working lights  
Chassis, boom, and cab lights

### ENGINE

Cat C7.1 single turbo diesel engine  
Power and Smart mode  
Automatic engine speed control  
Up to 4500 m (14,760 ft) altitude capability with engine power derate above 3000 m (9,840 ft)

50°C (122°F) high-ambient cooling  
-18°C (0°F) cold start capability  
Double element air filter with integrated precleaner  
Electric cooling fans with auto reverse function

## **HYDRAULIC SYSTEM**

Boom and stick regeneration circuit  
Electronic main control valve  
Automatic hydraulic oil warm up  
Automatic two-speed travel

## **SAFETY AND SECURITY**

Service platform with anti-skid plate and recessed bolts  
Rearview camera  
Lockable disconnect switch

## **SERVICE AND MAINTENANCE**

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

## **UNDERCARRIAGE AND STRUCTURES**

Grease lubricated track link  
7700 kg (16,980 lb) counterweight

## **333 - Tier 3 Optional Equipment**

### **NOTE**

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

## **BOOMS AND STICKS**

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 (9'6") HD Reach stick  
3.2 m (10'6") HD Reach stick  
2.5 m (8'2") Mass stick (with rebar)  
7.85 m (25'9") Super Long Reach stick

## **CAB**

Operator Protective Guards (OPG)  
Cat Stick Steer

## **CAT TECHNOLOGY**

VisionLink Productivity

## **ENGINE**

-32°C (-25°F) cold start capability

## **SAFETY AND SECURITY**

Right-hand side mirror

Right-hand side-view camera

Travel alarm

Swing alarm

## **UNDERCARRIAGE AND STRUCTURES**

600 mm (24") double grouser track shoes

600 mm (24") triple grouser track shoes

700 mm (28") triple grouser track shoes

750 mm (30") triple grouser track shoes

800 mm (31") triple grouser track shoes