

# Product Specifications For 352 Long Reach



## Engine

**Net Power - ISO 9249** 443 hp

**Net Power - ISO 9249 (DIN)** 449 hp (metric)

**Engine Model** Cat C13B

**Engine Power - ISO 14396:2002** 445 hp

**Engine Power - ISO 14396 (DIN)** 451 hp (metric)

**Bore** 5 in

**Stroke** 6 in

**Displacement** 763 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 1,800 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

<b>Operating Weight</b>	128100 lb
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<b>Note</b>	Variable Gauge High Wide undercarriage, LRE boom, LRE 8.5B (27'9") stick, HD 1.00 m <sup>3</sup> (1.31 yd <sup>3</sup> ) bucket, 900 mm (35") triple grouser shoes, 12 mt (26,455 lb) counterweight.
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## Working Ranges & Forces

<b>Maximum Digging Depth</b>	42.8 ft
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<b>Boom</b>	LRE Boom 11.5 m (37'9")
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<b>Stick</b>	LRE Stick 8.5 m (27'11")
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<b>Bucket</b>	HD 1.00 m <sup>3</sup> (1.31 yd <sup>3</sup> )
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<b>Maximum Reach at Ground Level</b>	64.4 ft
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<b>Maximum Cutting Height</b>	48.2 ft
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<b>Maximum Loading Height</b>	39.4 ft
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<b>Minimum Loading Height</b>	7.3 ft
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<b>Maximum Depth Cut for 2440 mm (8 ft) Level Bottom</b>	42.5 ft
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<b>Bucket Digging Force - ISO</b>	31700 lbf
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Stick Digging Force - ISO

23380 lbf

## Hydraulic System

Maximum Flow - Main System

206 gal/min

Maximum Pressure - Equipment

5076 psi

Maximum Pressure - Equipment - Lift Mode

5511 psi

Maximum Pressure - Travel

5076 psi

Maximum Pressure - Swing

3771 psi

## Swing Mechanism

Maximum Swing Torque

139000 lbf·ft

## Service Refill Capacities

Fuel Tank Capacity

188.9 gal (US)

Cooling System

13.7 gal (US)

Engine Oil - With Filter

10.6 gal (US)

Swing Drive

2.8 gal (US)

Final Drive - Each

2.5 gal (US)

Hydraulic System - Including Tank

145.3 gal (US)

Hydraulic Tank

57.3 gal (US)

DEF Tank

21.1 gal (US)

## Dimensions

Boom

LRE Boom 11.5 m (37'7")

<b>Stick</b>	LRE Stick 8.5 m (27'9")
<b>Bucket</b>	HD 1.00 m <sup>3</sup> (1.31 yd <sup>3</sup> )
<b>Shipping Height - Top of Cab</b>	11.1 ft
<b>Handrail Height</b>	11.6 ft
<b>Shipping Length</b>	53.9 ft
<b>Tail Swing Radius</b>	12.3 ft
<b>Counterweight Clearance</b>	4.7 ft
<b>Ground Clearance</b>	2.3 ft
<b>Track Length</b>	17.6 ft
<b>Track Length to Center of Rollers</b>	14.2 ft
<b>Track Gauge</b>	10.5 ft
<b>Transport Width</b>	13.5 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 1 kg (2.2 lb) of refrigerant which has a CO<sub>2</sub> equivalent of 1.430 metric tonnes (1.576 tons).

## 352 Long Reach Standard Equipment

### NOTE

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

### Boom And Stick

11.5 m (37'9") LRE boom

8.5 m (27'11") LRE stick

### Cab

Sound suppression  
High-resolution 254 mm (10") LCD touch screen monitor  
Heated seat with air-suspension (Deluxe only)  
Heated and cooled seat with automatic suspension (Premium only)  
Tilt-up left console  
Auto bi-level air conditioner  
Jog dial and shortcut keys for monitor control  
Bluetooth® integrated radio

## **Cat Technology**

VisionLink®  
Remote Flash  
Remote Troubleshoot  
Cat Grade 2D  
Cat Assist  
Cat Payload  
2D E-Fence

## **Electrical System**

Maintenance-free 1,000 CCA batteries  
Centralized electrical disconnect switch  
LED lights

## **Engine**

Three selectable modes: Power, Smart, Eco  
Auto engine speed control  
52°C (126°F) high-ambient cooling capacity  
-18°C (0°F) cold start capability  
Double element air filter with integrated pre-cleaner

## **Hydraulic System**

Boom and stick regeneration circuit  
Electronic main control valve  
Auto hydraulic oil warmup  
Auto swing parking brake  
Reverse swing damping valve  
Two speed travel  
Bio hydraulic oil capability

## **Safety And Security**

Caterpillar One Key security system  
Lockable external tool / storage box  
Lockable door, fuel and hydraulic tanks  
Lockable fuel drain compartment  
Service platform with anti-skid plate and recessed bolts  
RH handrail and hand hold

Signaling / warning horn  
Ground-level secondary engine shutoff switch  
Lockable disconnect switch

## **Service And Maintenance**

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

## **Undercarriage And Structures**

Variable Gauge High Wide undercarriage  
12.0 mt (26,455 lb) counterweight  
Grease lubricated track

## **352 Long Reach Optional Equipment**

### **NOTE**

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

### **Cab**

Cat Stick Steer

### **Cat Technology**

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

### **Engine**

Cold start block heaters  
Automatic reverse fan  
-32°C (-25°F) cold start capability

### **Hydraulic System**

SmartBoom™ (Europe only)  
Combined two-way auxiliary circuit with direct return  
Medium-pressure auxiliary circuit  
Quick coupler circuit for Cat Pin Grabber and CW Dedicated

### **Safety And Security**

Cat Command (remote control)  
Boom lowering check valve (standard in Europe)  
Stick lowering check valve (standard in Europe)

Travel alarm (standard in North America)

Swing alarm

360° visibility

## **Service And Maintenance**

Electric refueling pump with automatic shutoff (Europe only)

QuickEvac™ maintenance ready

## **Undercarriage And Structures**

900 mm (35") triple grouser track shoes

750 mm (30") triple grouser track shoes

600 mm (24") triple grouser track shoes

600 mm (24") double grouser track shoes