

# Product Specifications For 320 - Tier 4 / Stage V



## Engine

<b>Net Power - ISO 9249</b>	172 hp
<b>Net Power - ISO 9249 (DIN)</b>	175 hp (metric)
<b>Engine Model</b>	Cat® C4.4
<b>Engine Power - ISO 14396</b>	174 hp
<b>Engine Power - ISO 14396 (DIN)</b>	176 hp (metric)
<b>Bore</b>	4 in
<b>Stroke</b>	5 in
<b>Displacement</b>	269 in <sup>3</sup>
<b>Biodiesel Capability</b>	Up to B20 <sup>1</sup>
<b>Emissions</b>	Meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
<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 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

49,800 lb

### Note

Reach boom, R2.9 (9'6") stick, Heavy Duty (HD) 1.19 m<sup>3</sup> (1.56 yd<sup>3</sup>) bucket 790 mm (31") triple grouser shoes, 4200 kg (10,400 lb) counterweight.

## Working Ranges And Forces

### Maximum Digging Depth

22 ft

## Boom

Reach 5.7 m (18'8")

## Stick

Reach 2.9 m (9'6")

## Bucket

1.19 m<sup>3</sup> (1.56 yd<sup>3</sup>)

### Maximum Reach at Ground Level

32.3 ft

### Maximum Cutting Height

30.7 ft

### Maximum Loading Height

21.3 ft

### Minimum Loading Height

7.1 ft

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

21.5 ft

### Maximum Vertical Wall Digging Depth

17 ft

<b>Bucket Digging Force - ISO</b>	38811 lbf
<b>Stick Digging Force - ISO</b>	23911 lbf

## Hydraulic System

<b>Main System - Maximum Flow</b>	429 l/min (113 gal/min)
<b>Maximum Pressure - Equipment</b>	5075 psi
<b>Maximum Pressure - Equipment - Lift Mode</b>	5510 psi
<b>Maximum Pressure - Travel</b>	4974 psi
<b>Maximum Pressure - Swing</b>	3988 psi

## Swing Mechanism

<b>Swing Speed</b>	11.25 r/min
<b>Note (1)</b>	For CE-marked machine default value may be set lower.
<b>Maximum Swing Torque</b>	60300 lbf·ft

## Service Refill Capacities

<b>Fuel Tank Capacity</b>	86.6 gal (US)
<b>Cooling System</b>	6.6 gal (US)
<b>Engine Oil</b>	4 gal (US)
<b>Swing Drive</b>	1.6 gal (US)
<b>Final Drive - Each</b>	1.1 gal (US)
<b>Hydraulic System - Including Tank</b>	61.8 gal (US)
<b>Hydraulic Tank</b>	30.4 gal (US)

DEF Tank	10.3 gal (US)
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## Dimensions

Boom	Reach 5.7 m (18'8")
Stick	Reach 2.9 m (9'6")
Bucket	1.19 m <sup>3</sup> (1.56 yd <sup>3</sup> )
Shipping Height - Top of Cab	9.7 ft
Handrail Height	9.7 ft
Shipping Length	31.3 ft
Tail Swing Radius	9.3 ft
Counterweight Clearance	3.4 ft
Ground Clearance	1.5 ft
Track Length	14.6 ft
Length to Center of Rollers	11.7 ft
Track Gauge	7.8 ft
Transport Width	9.8 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 0.85 kg (1.9 lb) of refrigerant which has a CO2 equivalent of 1.216 metric tonnes (1.340 tons).
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## Sustainability

Recyclability	97%
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# 320 - Tier 4 / Stage V Standard Equipment

## NOTE

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

## 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

Two 1,000 CCA maintenance-free batteries

Programmable time-delay LED working lights

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

## ENGINE

Cat C4.4 twin turbo diesel engine

Three selectable power modes

Automatic engine speed control

52°C (126°F) ambient cooling capacity

-32°C (-25°F) cold start capability

Double element air filter with integrated precleaner

Reversing electric cooling fans

## HYDRAULIC SYSTEM

Boom and stick regeneration circuits

Auto warm up

Auto two-speed travel

Auto dig boost

Auto heavy lift

Boom and stick drift reduction valve

## SAFETY AND SECURITY

2D E-Fence  
Auto hammer stop  
Rearview and right-side-view cameras  
Ground-level engine shutoff switch  
Lockable disconnect switch  
Right-hand handrail and hand hold  
Signaling/warning horn

## **SERVICE AND MAINTENANCE**

Scheduled Oil Sampling (S·O·S<sup>SM</sup>) ports  
Ground-level and platform-level engine oil dipsticks  
Integrated vehicle health management system

## **UNDERCARRIAGE AND STRUCTURES**

Tie-down points on base frame

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

### **NOTE**

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

## **BOOMS AND STICKS**

5.7 m (18'8") Reach boom  
5.7 m (18'8") HD Reach boom  
2.8 m (9'2") Stub + 3.3 m (10'10") Fore, VA boom  
8.85 m (29') Super Long Reach boom  
2.5 m (8'2") Reach stick  
2.9 m (9'6") Reach stick  
2.5 m (8'2") HD Reach stick  
2.9 m (9'6") HD Reach stick  
2.9 m (9'6") HD Thumb Ready Reach stick  
6.28 m (20'7") Super Long 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

## **HYDRAULIC SYSTEM**

Boom and stick lowering check valves  
SmartBoom™ (Europe only)  
Hammer return filter circuit  
Hydraulic efficiency monitoring  
Advanced tool control (two pump, one/two way high-pressure flow)  
Medium-pressure circuit  
Quick coupler circuit for Cat pin grabber

## **SAFETY AND SECURITY**

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

## **UNDERCARRIAGE AND STRUCTURES**

600 mm (24") triple grouser shoes  
700 mm (28") triple grouser shoes  
790 mm (31") triple grouser shoes  
900 mm (35") triple grouser shoes  
4200 kg (9,300 lb) counterweight  
4700 kg (10,400 lb) counterweight