

Product Specifications For 320 GC



Engine

Net Power - ISO 9249	107 kW
Net Power - ISO 9249 (DIN)	145 hp (metric)
Engine Model	Cat® C4.4
Engine Power - ISO 14396	108 kW
Engine Power - ISO 14396 (DIN)	147 hp (metric)
Bore	105 mm
Stroke	127 mm
Displacement	4.4 l
Biodiesel Capability	Up to B20 ¹
Emissions	Meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
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 2,000 rpm. Advertised power is tested per the specified standard in effect at the time of manufacture.

Note (2)

¹Cat engines 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

Operating Weight

20400 kg

Note

Medium undercarriage, Reach boom, R2.9 (9'6") stick, General Duty (GD) 1 m³ (1.31 yd³) bucket, 600 mm (24") triple grouser shoes, and 3.7 mt (8,200 lb) counterweight.

Working Ranges And Forces

Maximum Digging Depth

6630 mm

Boom

Reach 5.7 m (18'8")

Stick

Reach 2.9 m (9'6")

Bucket

1 m³ (1.31 yd³)

Maximum Reach at Ground Level

9770 mm

Maximum Cutting Height

9440 mm

Maximum Loading Height

6580 mm

Minimum Loading Height

2260 mm

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

6460 mm

Maximum Vertical Wall Digging Depth

6010 mm

Bucket Digging Force - ISO

129 kN

Stick Digging Force - ISO	99 kN
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Hydraulic System

Main System - Maximum Flow	429 l/min (113 gal/min)
Maximum Pressure - Equipment	35000 kPa
Maximum Pressure - Travel	34300 kPa
Maximum Pressure - Swing	25000 kPa

Swing Mechanism

Swing Speed*	11.3 r/min
Maximum Swing Torque	74.4 kN·m
Note (1)	*For CE-marked machine default value may be set lower.

Service Refill Capacities

Fuel Tank Capacity	345 l
Cooling System	25 l
Engine Oil	15 l
Swing Drive	12 l
Final Drive - Each	4 l
Hydraulic System - Including Tank	234 l
Hydraulic Tank	115 l

Dimensions

Boom	Reach 5.7 m (18'8")
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Stick	Reach 2.9 m (9'6")
Bucket	1 m³ (1.31 yd³)
Shipping Height - Top of Cab	2960 mm
Handrail Height	2950 mm
Shipping Length	9530 mm
Tail Swing Radius	2830 mm
Counterweight Clearance	1050 mm
Ground Clearance	470 mm
Track Length	4250 mm
Length to Center of Rollers	3450 mm
Track Gauge	2380 mm
Transport Width	2980 mm

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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320 GC Standard Equipment

NOTE

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

BOOM AND STICKS

5.7 m (18'8") Reach boom

CAB

Rollover Protective Structure (ROPS)
Mechanical-suspension seat
High-resolution 203 mm (8 in) LCD touchscreen monitor

CAT TECHNOLOGY

VisionLink™
Remote Flash

ELECTRICAL SYSTEM

Two 1,000 CCA maintenance-free batteries
Programmable time-delay LED working lights
LED chassis light, left-hand boom lights

ENGINE

Cat C4.4 single turbo diesel engine
Two selectable power modes
Auto engine speed control
Auto engine idle shutdown
52°C (125°F) high-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 two-speed travel
Boom and stick drift reduction valve
Three button joysticks

SAFETY AND SECURITY

Auto hammer stop
Rearview camera
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·SSM) ports
Ground- and platform-level engine oil dipsticks
Integrated vehicle health management system

UNDERCARRIAGE AND STRUCTURES

600 mm (24") triple grouser shoes
Tie-down points on base frame

3700 kg (8,150 lb) counterweight

4200 kg (9,260 lb) counterweight (Australia, New Zealand only)

320 GC Optional Equipment

NOTE

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

CAB

Operator Protective Guard (OPG)

BOOM AND STICKS

2.5 m (8'2") Reach stick

2.9 m (9'6") Reach stick

ELECTRICAL SYSTEM

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

HYDRAULIC SYSTEM

Auto warm up

Hammer return filter circuit

Slider joysticks

Tool Control (two pump, one/two way high-pressure flow)

Basic Tool Control (one pump, one way high-pressure flow)

Quick coupler circuit

SAFETY AND SECURITY

Right-side-view camera

Swing alarm

Inspection lighting

UNDERCARRIAGE AND STRUCTURES

790 mm (31") triple grouser shoes