

Product Specifications For 320 - Tier 4 / Stage V



Engine

Net Power - ISO 9249	172 hp
Net Power - ISO 9249 (DIN)	175 hp (metric)
Engine Model	Cat® C4.4
Engine Power - ISO 14396	174 hp
Engine Power - ISO 14396 (DIN)	176 hp (metric)
Bore	4 in
Stroke	5 in
Displacement	269 in ³
Biodiesel Capability	Up to B20 ¹
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)

¹Cat 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 m³ (1.56 yd³) 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")

Bucket1.19 m³ (1.56 yd³)**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

Bucket Digging Force - ISO	38811 lbf
Stick Digging Force - ISO	23911 lbf

Hydraulic System

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

Swing Mechanism

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

Service Refill Capacities

Fuel Tank Capacity	86.6 gal (US)
Cooling System	6.6 gal (US)
Engine Oil	4 gal (US)
Swing Drive	1.6 gal (US)
Final Drive - Each	1.1 gal (US)
Hydraulic System - Including Tank	61.8 gal (US)
Hydraulic Tank	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 ³ (1.56 yd ³)
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·SSM) 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