



Cat[®] 320D2 GC

*Hydraulic Excavator with
C4.4 ACERT[™] engine*

2017

The new Cat[®] 320D2 GC Hydraulic Excavator is engineered for low operating costs, simple routine maintenance, high productivity and long-term durability.

Performance

- The fuel system's robust filtration reduces risk of failure from contaminated fuel.
- Caterpillar designed and built hydraulic pumps deliver superior performance.
- The 320D2 GC (U.S. EPA Tier 3/EU Stage IIIA equivalent emission standards) offers up to 17% lower fuel consumption compared to the 320D2 (Tier 2/Stage II equivalent emission standards).
- Boom and stick regeneration valves reduce fuel consumption.

Durability

- The modified X-frame structure provides long life and durability.
- Robotically welded boom and stick are standard.
- Greased track link between pins and bushings increases undercarriage life and reduces noise.

Ease of Operation

- The cab is ergonomically designed with easy-to-operate controls.
- Multiple seat and joystick adjustment options enhance comfort.
- Excellent work site visibility from the cab enhances productivity and safety.
- Low-effort joystick controls reduce operator fatigue.

Maintenance

- Most service locations can be accessed at ground level.
- Filters are grouped together to reduce maintenance time.
- Pressure taps and S·O·SSM ports help maximize uptime.

Safety

- Hydraulic activation lever safely locks out all hydraulic functions.
- Anti-skid plating and countersunk bolts reduce slipping in severe conditions and during routine checks.
- A full-length firewall separates the pump compartment from the engine.
- A ground-level fuel cutoff switch shuts down the engine in an emergency.

Technology

- Integrated Cat technology solutions increase production and minimize operating costs.
- Product Link[™] reports key information from the machine to any location.

Versatility

- Utility and finishing work are fast and flawless with Cat buckets, thumbs, and compactors.
- Demolition work is quick and easy with Cat hammers, grapples, shears, and multi-processors.
- Cat couplers let you swap between attachments in seconds without leaving the cab.
- See the whole money-making attachment lineup at www.cat.com/attachments.



Cat® 320D2 GC Hydraulic Excavator with C4.4 ACERT™ engine

Engine

Engine Model	C4.4 ACERT™	
Engine Power – ISO 14396	93 kW	125 hp
Net Power – SAE J1349/ISO 9249	85 kW	114 hp
Engine RPM (rating)	2,200 rpm	
Bore	105 mm	4.13 in
Stroke	127 mm	5.00 in
Displacement	4.4 L	269 in ³
<ul style="list-style-type: none"> • The 320D2 GC meets U.S. EPA Tier 3/EU Stage IIIA equivalent and China Nonroad Stage III emission standards. • No engine power derating required below 3000 m (9,843 ft) altitude. • Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator. • Maximum engine rpm (travel and front operation) is 1,800 rpm. 		

Weights

Operating Weight*	20 200 kg	44,500 lb
*R5.7 (18'8") reach boom, 2.9 m (9'6") stick, GD 1.0 m ³ (1.3 yd ³) bucket and 600 mm (24") triple grouser shoes.		

Track

Number of Shoes Each Side	45 pieces	
Number of Track Rollers Each Side	7 pieces	
Number of Carrier Rollers Each Side	2 pieces	

Swing Mechanism

Swing Speed	11.9 rpm	
Maximum Swing Torque	68 kN-m	50,154 lbf-ft

Drive

Maximum Gradeability	35°/70%	
Maximum Travel Speed		
High	5.8 km/h	3.6 mph
Low	3.6 km/h	2.2 mph
Maximum Drawbar Pull	206 kN	46,311 lbf

Hydraulic System

Main System – Maximum Flow (total)	428 L/min	113.1 gal/min
Maximum Pressure	35 MPa	5,076 psi
Maximum Pressure – Swing	25 MPa	3,626 psi
Pilot System – Maximum Flow (total)	23.1 L/min	6.1 gal/min
Pilot System – Maximum Pressure	3900 kPa	566 psi
Boom Cylinder – Bore	120 mm	4.7 in
Boom Cylinder – Stroke	1260 mm	49.6 in
Stick Cylinder – Bore	140 mm	5.5 in
Stick Cylinder – Stroke	1504 mm	59.2 in
Bucket Cylinder – Bore	120 mm	4.7 in
Bucket Cylinder – Stroke	1104 mm	43.5 in

Service Refill Capacities

Fuel Tank Capacity	410 L	108.3 gal
Cooling System	25 L	6.6 gal
Engine Oil	16 L	4.2 gal
Swing Drive	8 L	2.1 gal
Final Drive	8 L	2.1 gal
Hydraulic System Oil (including tank)	260 L	68.7 gal
Hydraulic Tank Oil	138 L	36.5 gal

Sound Performance

ISO 6395 (External Sound Power Level)	101 dB(A)
ISO 6396 (Interior Sound Pressure Level)	69 dB(A)
<ul style="list-style-type: none"> • When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT98, meets OSHA and MSHA requirements for operator sound exposure limits in effect at time of manufacture. • Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in a noisy environment. 	

Standards

Brakes	SAE J1026/APR90
Cab/FOGS	SAE J1356 FEB88 ISO 10262

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

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