

320D3 GC

HYDRAULIC EXCAVATOR



Engine Power

ISO 14396

100 kW (134 hp)

ISO 14396 (DIN)

136 hp (metric)

Operating Weight

19 800 kg (43,700 lb)

Cat® ALUW06DTI/8 Engine emits equivalent to U.S. EPA Tier 2.



NEXT GENERATION EXCAVATORS

The Cat® 320D3 GC Hydraulic Excavator gives you the ability to do more at a lower cost.

- + LOW FUEL COSTS
- + LOW MAINTENANCE COSTS
- + HIGH RELIABILITY AND RETURN ON INVESTMENT

The 320D3 GC offers low fuel and maintenance costs, new features for increased productivity, and greater durability for a longer service life and higher resale value. All that means you can do more with more profit.



CAT® THE 320D3 GC DIG MORE PROFIT

With improved engineering from the bucket to the tracks and everywhere in between, the **320D3 GC** gives you dependable performance, low operating costs, and more comfort for operators. The Cat 320D3 GC is a smart choice for operations where high reliability and low cost-per-hour performance are priority.

LOW MAINTENANCE COSTS MORE UPTIME



LOW FUEL CONSUMPTION

Two power modes, Standard and Eco, deliver options for less fuel usage, and optional fuel consumption tracking in VisionLink® provides more control of fuel consumption.

LOW MAINTENANCE COSTS

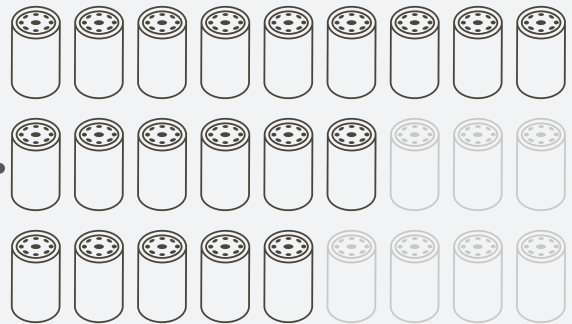
Maximize uptime with less extended service intervals for the hydraulic filter, 6,000 hours of hydraulic oil service, and no pilot or drain filters.

SIMPLICITY ADDS TO RELIABILITY

An integrated pilot system and a 6-cylinder mechanical engine without an Electronic Control Module (ECM) and integrated pilot system enable simpler hydraulics. Compatibility with a hammer and bucket add to the machine's versatility.

FEWER FILTERS MEANS LESS MAINTENANCE

THE **320D3 GC** USES FEWER FILTERS COMPARED TO THE PAST MODELS.



Fewer filters over the machine's lifetime.

SAVE ON FUEL

LOWER YOUR OPERATING COSTS



FUEL CONSUMPTION AS LOW AS 11 LITERS PER HOUR

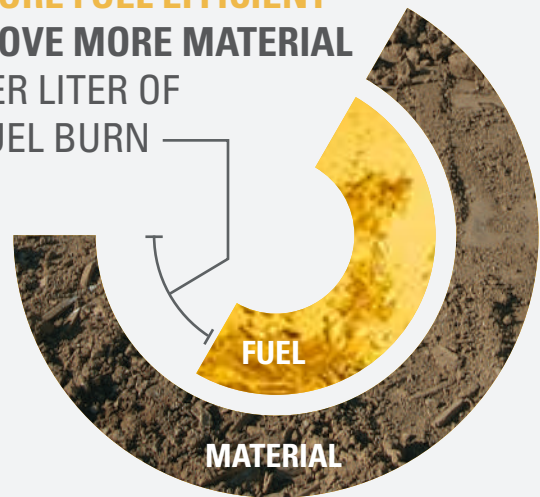
Typical fuel consumption for the 320D3 GC in earthmoving applications is between 11 to 13 liters per hour, lower than most machines in the market. Conserve power with a single-panel cooling system. Optimized engine speed, boom and stick regeneration valves, and hydraulic pumps deliver superior performance.

WORK SMART. SAVE MONEY.

Two power modes help manage fuel consumption. Power mode delivers maximum productivity in high-demand applications like truck loading and trenching. Eco mode automatically matches engine speed and hydraulic power to demand for the highest fuel efficiency in any application.

ECONOMICAL SAVINGS

MORE FUEL EFFICIENT
MOVE MORE MATERIAL
PER LITER OF
FUEL BURN



THE 320D3 GC IS THE FUEL-EFFICIENT CHOICE FOR YOUR BUSINESS.



RELIABILITY

DELIVERING PEACE OF MIND



SIMPLY RELIABLE

The 320D3 GC combines proven Cat components with redesigned and simplified systems that maximize durability. This combination delivers a high resale value and the best return on investment in its class.

- + An X-frame structure delivers longer life.
- + 6-cylinder mechanical engine without Electronic Control Module (ECM).
- + A final drive that delivers longer life and greater control.
- + Integrated pilot system for simpler hydraulics.

HEAVY-DUTY BOOM AND REINFORCED STICK BOOST PRODUCTIVITY

The boom and stick are reinforced with internal baffle plates for increased durability, and the new stick enables better lifting capacity and stability. Regeneration valves save power, and couplers allow attachments to be changed out in seconds.

VisionLink® GETS MORE FROM YOUR MACHINE

VisionLink provides actionable data insights for all assets – regardless of fleet size or equipment manufacturer.* Review equipment data from your desktop or mobile device to maximize uptime and optimize assets. Dashboards provide information such as hours, miles, location, idle time, and fuel level. Make informed decisions that lower costs, simplify maintenance, and improve safety and security on your jobsite.

*Data field availability can vary by equipment manufacturer.

SUPERIOR COMFORT AND CONTROL

Sites where excavators typically work are rugged and challenging. That's why it's important that the 320D3 GC cab protects the operator as much as possible from the fatigue, stresses, sounds, and temperatures of the job.



COMFORTABLE, EASY TO CONTROL

This ergonomically designed cab, seat, and control layout is designed for ease of use, without the strain of frequently leaning forward or stretching to reach controls. Instrument cluster is easy to use, intuitive and user friendly.

REDUCE FATIGUE

The console, armrests, and wide vibration-damping seat have several adjustment points, allowing you to select the perfect positions for all-day comfort. Low-effort joystick controls reduce operator fatigue even further.

EXCELLENT VISIBILITY

Large, glass area in the cab gives you improved worksite safety and enhanced productivity. Convex profile glass improves safety further by reducing blind spots. LED lighting with brighter illumination allows for better visibility.

IMPROVED AIRFLOW

The cab features better air circulation, greatly increasing the effectiveness of the automatic air conditioning and heat, providing all-day comfort for operators. The cab is positively pressurized, keeping dust at bay. An openable skylight comes standard.

SOUND SUPPRESSION

The cab is designed with noise reduction in mind, allowing you to work in quiet comfort. Viscous cab mounts and multi-layer, noise-damping, laminated foam mats insulate you from machine and worksite noise.



INSTRUMENT CLUSTER

The two-gauge instrument cluster provides all the information you need in a simple, compact package. The display is small enough to have no impact on your visibility, but large enough to be easily read at a glance. Five warning indicators are included, and the display shows fuel status, coolant temperature, service hours, hydraulic lock status, and current eco mode enabled.

STORAGE AND POWER

Abundant storage space – coat hook, beverage holder, document holding space, and rear storage compartment – makes it easy to keep your work area uncluttered. The cab is also equipped with two USB connectors for added convenience.



SAFETY FEATURES

BUILT WITH SAFETY IN MIND



STAY SAFE EVERY DAY

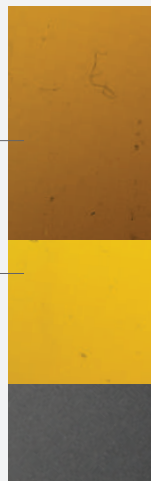
FACT:

#1 cause of construction accidents: **FALLS***

49% OF FALLS RESULT IN SERIOUS INJURY

30% OF FALLS RESULT IN DEATH

FALLS



320D3 GC

GROUND-LEVEL MAINTENANCE

HELPS PREVENT FALLS

*<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4962179/>

GROUND-LEVEL MAINTENANCE

Falls are the #1 cause of construction worksite accidents, but most maintenance on the machine is done at ground level. There is also an emergency engine stop switch located at ground level.

EASY CLIMBING

Access to the service platform is provided by large steps on the track frame and storage box for an easy and safe climb. The platform is built from stamped anti-skid plating which will last for the entire life of the machine, and countersunk bolts prevent snags and tripping.

FAN SHROUD AND LOCKOUT LEVER

The cooling fan is fully enclosed, preventing any accidental touches during maintenance. A hydraulic activation lever locks out all hydraulic functions.

CAB SAFETY

The cab is equipped with an emergency escape exit. The front glass is tempered for additional impact safety. LED warning lights alert operator when machine is not within safe operating range.

INCREASE YOUR PRODUCTIVITY AND PROFIT WITH CAT ATTACHMENTS

When your machine can do more, you can make more profit. Increase the versatility of your machine with any of the variety of Cat attachments. Each Cat attachment is designed to fit the weight and horsepower of Cat excavators for improved performance, safety, and stability.



BUCKETS



HYDRAULIC HAMMERS



TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE		
Engine Model	ALUW06DTI	
Biodiesel Capability	Up to B10	
Emissions	Non-certified emission engine	
Net Power – ISO 9249	92 kW	123 hp
Net Power – ISO 9249 DIN	125 hp (metric)	
Engine Power – ISO 14396	100 kW	134 hp
Engine Power – ISO 14396 DIN	136 hp (metric)	
Bore	104 mm	4 in
Stroke	113 mm	4 in
Displacement	5.76 L	351 in ³

- Noncertified emission engine.
- Recommended for use up to 4000 m (13,120 ft) altitude with engine power derate above 3000 m (9,840 ft).
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system and alternator.
- Engine speed at 1,700 rpm.

HYDRAULIC SYSTEM		
Main System – Maximum Flow	400 L/min	106 gal/min
Maximum Pressure – Equipment	35 000 kPa	5,075 psi
Maximum Pressure – Travel	35 000 kPa	5,075 psi
Maximum Pressure – Swing	25 000 kPa	3,625 psi

SWING MECHANISM		
Swing Speed	10.00 r/min	
Maximum Swing Torque	62 kN•m	45,581 lbf-ft

MACHINE WEIGHTS		
Operating Weight	19 800 kg	43,700 lb

SERVICE REFILL CAPACITIES		
Fuel Tank Capacity	350 L	92.5 gal
Cooling System	19 L	5 gal
Engine Oil	18 L	4.8 gal
Swing Drive (each)	6 L	1.6 gal
Final Drive (each)	5 L	1.3 gal
Hydraulic System (including tank)	230 L	60.8 gal
Hydraulic Tank	115 L	30.4 gal

DIMENSIONS		
Boom	HD Reach 5.7 m (18'8")	
Stick	Reach 2.25 (7'5")	
Bucket	GD 1.0 m³ (1.31 yd³)	
Shipping Height (top of cab)	3100 mm	10.4 ft
Handrail Height	2915 mm	9.7 ft
Shipping Length	9520 mm	31.3 ft
Tail Swing Radius	2750 mm	9.0 ft
Counterweight Clearance	1020 mm	3.4 ft
Ground Clearance	450 mm	1.6 ft
Track Length	4080 mm	13.5 ft
Length to Center of Rollers	3270 mm	10.9 ft
Track Gauge	2200 mm	7.3 ft
Transport Width	2800 mm	9.2 ft

WORKING RANGES AND FORCES		
Boom	HD Reach 5.7 m (18'8")	
Stick	Reach 2.25 (7'5")	
Bucket	GD 1.0 m³ (1.31 yd³)	
Maximum Digging Depth	5970 mm	19.7 ft
Maximum Reach at Ground Level	9140 mm	30.0 ft
Maximum Cutting Height	9110 mm	29.11 ft
Maximum Loading Height	6250 mm	20.6 ft
Minimum Loading Height	2920 mm	9.7 ft
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5640 mm	18.6 ft
Maximum Vertical Wall Digging Depth	5350 mm	17.7 ft
Bucket Digging Force (ISO)	134 kN	30,120 lbf
Stick Digging Force (ISO)	112 kN	25,180 lbf

STANDARD & OPTIONAL EQUIPMENT

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

UNDERCARRIAGE AND STRUCTURES	STANDARD	OPTIONAL
Grease lubricated track links	•	
Tie down points on base frame	•	
Center track guiding guard	•	
3650 kg (8,050 lb) counterweight	•	
600 mm (24 in) triple grouser shoes (9.5 mm/0.4 in thick)	•	
Segmented track guiding guard		•
600 mm (24 in) triple grouser shoes (10 mm/4.0 in thick)		•
CAB	STANDARD	OPTIONAL
Sound suppressed cab with viscous mounts	•	
Openable skylight	•	
Openable tempered front upper windshield	•	
Rear window emergency exit	•	
Removable tempered lower windshield with in cab storage bracket	•	
Fully adjustable mechanical suspension seat, console and armrest	•	
51 mm (2 in) seat belt	•	
Two gauge instrument cluster	•	
Automatic air conditioner with pressurized function	•	
Dual USB charging ports	•	
Washable floor mat	•	
Interior utilities (Interior lighting, cigar lighter type socket, coat hook, beverage holder, document holding space, rear storage compartment)	•	
Roll down sun screen		•
Control pattern changer		•
ENGINE	STANDARD	OPTIONAL
Diesel engine, ALUW06DTI/8 – mechanical governor – emits equivalent to U.S. EPA Tier 2, not-certified	•	
Two selectable power modes: Standard, Eco	•	
One-touch low idle with auto engine speed control (AEC)	•	
Two stage fuel filtration system with water separator and indicator	•	
4000 m (13,120 ft) altitude capability	•	
52° C (126° F) high-ambient cooling capacity with derate above 48° C (118° F)	•	
-18° C (° F) cold start capability	•	
85 Amp alternator	•	
Radial seal air filter with double filter element	•	
Mechanical fuel priming pump	•	
-32° C (-25° F) cold start capability		•
Air pre-cleaner		•
Fuel flow meter		•
Biodiesel capability (up to B10)		•

BOOMS, STICKS AND LINKAGES	STANDARD	OPTIONAL
5.7 m (18'8") HD Reach boom	•	
2.25 m (7'5") Reach stick	•	
Bucket linkage, B1 family without lifting eye	•	
2.5 m (8.2") Reach stick		•
ELECTRICAL SYSTEM	STANDARD	OPTIONAL
Two 750 CCA maintenance free batteries	•	
Centralized electrical disconnect switch	•	
90 seconds programmable time delay working lights (LED); storage box G67 mounted (one), cab mounted (two), boom mounted Left Hand (LH) (one)	•	
SERVICE AND MAINTENANCE	STANDARD	OPTIONAL
Engine oil, fuel, and hydraulic oil filters grouped for ease of maintenance	•	
Scheduled Oil Sampling (S [•] O [•] S SM) ports	•	
Radiator screen for radiator/oil cooler to prevent plugging by debris	•	
HYDRAULIC SYSTEM	STANDARD	OPTIONAL
Hydraulic boom and stick regeneration circuits	•	
Boom and stick drift reduction valve	•	
High performance hydraulic return filter (capsule filter type)	•	
Auto two-speed travel		•
TECHNOLOGY	STANDARD	OPTIONAL
VisionLink®	•	
SAFETY AND SECURITY	STANDARD	OPTIONAL
Rearview mirrors; handrail mounted (one), cab handhold mounted (one)	•	
Bolt free service platform with anti-skid plate	•	
Neutral lever (lock out) for all controls	•	
Ground-level accessible engine shutoff lever in cab	•	
Signaling/warning horn	•	
Right-hand handrail and hand hold	•	

Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area.
For additional information, refer to the Technical Specifications brochures for the 320D3 GC available at www.cat.com or your Cat dealer.

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

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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www.cat.com www.caterpillar.com

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