



320D3 GC

Hydraulic Excavator

The Cat® 320D3 GC Hydraulic Excavator delivers reduced fuel consumption – as low as 11 liters per hour, lowered maintenance costs, low owning costs, simpler routine maintenance, increased performance, and long-term durability.

SIMPLY RELIABLE

- Proven 6-cylinder mechanical engine with no electronic control module.
- HD and reinforced stick compatible with hammer and bucket. No application restrictions.
- Integrated pilot system for simpler hydraulics.
- Greased track link between pins and bushings provides increased undercarriage life and noise reduction.

LOWER FUEL CONSUMPTION

- With the increased fuel efficiency, typical fuel consumption in earthmoving applications is between 11 to 13 liters per hour, lower than most comparable machines in the market.
- Robust and easy-to-maintain fuel system filtration reduces risk of failure from contaminated fuel.
- Caterpillar designed and built hydraulic pumps deliver superior performance.
- Conserve power with new single-panel cooling system.
- Save energy with boom and stick regeneration valves.
- Optional Fuel Flow meter aids in predicting fuel consumption in various applications and provides timely information to the operator about the fuel consumption of the machine. Data can be reported in VisionLink™.

LOW MAINTENANCE COSTS

- 6,000 hour hydraulic oil change, up to 12% less oil needed than previous generations.
- Extended hydraulic oil filter change, up to 50% more than previous generations.
- No drain filter needed, protection is provided by a screen and a magnet.
- Extended first engine oil change interval (500 hours).
- Filters grouped together to reduce maintenance time.
- Pressure taps and Scheduled Oil Sampling (S-O-SSM) ports help maximize uptime.
- VisionLink comes standard so you can remotely monitor machine health, location, hours, and absolute fuel level on demand through the online interface.

WORK IN COMFORT

- Improved spacious, comfortably designed cab with easy-to-operate controls.
- Engine Stop and Start now available with the key.
- In-cab 203 mm (8 in) screen display is easy to use, intuitive, and user-friendly.
- LED warning lights alert operator when machine is not within safe operating range.
- Ergonomically designed seat to aid in operator comfort. Seat easily adjusts and is equipped with adjustable armrests and a non-retractable seatbelt.
- Automated climate control helps maintain consistent cab temperature for improved operator comfort.
- Low-effort joystick controls reduce operator fatigue.



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BUILT-IN SAFETY FEATURES

- Hydraulic activation lever locks out all hydraulic functions.
- Anti-skid plating and countersunk bolts reduce slipping in severe conditions and during routine checks.
- Grips on the track frame, service platform, cab and battery compartment for an easy climb up and down from the service platform and operator station.
- A full-length firewall separates the pump compartment from the engine.
- Improved muffler design reduces sound enabling the machines to work at night.
- A ground-level fuel cutoff switch shuts down the engine in an emergency.
- Large steps on track frame and storage box for easy climb.
- Emergency exit in cab for operator safety.
- LED lighting with brighter illumination allows for better visibility.

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

	Standard	Optional
UNDERCARRIAGE AND STRUCTURES		
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		
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 cluster (monitor)	✓	
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		
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)		✓

	Standard	Optional
BOOMS, STICKS AND LINKAGES		
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") HD Reach stick		✓
ELECTRICAL SYSTEM		
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		
Engine oil, fuel, and hydraulic oil filters grouped for ease of maintenance	✓	
Scheduled Oil Sampling (S-O-S) ports	✓	
Radiator screen for radiator/oil cooler to prevent plugging by debris	✓	
HYDRAULIC SYSTEM		
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		
VisionLink	✓	
SAFETY AND SECURITY		
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	✓	

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Technical Specifications

Engine

Engine Model	ALUW06DT1	
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 r/min	
Maximum Swing Torque	62 kN·m	45,581 ft·lbf

Weights

Operating Weight	19 800 kg	43,700 lb
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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 m (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 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 m (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 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 ft) 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

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

AEXQ3664-00 (11-2023)
(India)

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