

# 320D3 GC

HYDRAULIC EXCAVATOR



Engine Power  
320 140 kW  
320 140 kW (230 hp)  
Operating Weight

14000 kg (30800 lb)  
1400 kg (3080 lb)  
16 000 kg (35 270 lb)

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**CAT**

## NEXT GENERATION EXCAVATORS

The Cat® 320D3 GC Hydraulic Excavator gives you the ability to do more in a fewer cuts.

- LOW FUEL CONSUMPTION
- LOW MAINTENANCE COSTS
- HIGH RELIABILITY AND UPTIME ON YOUR SITE

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.



# THE CAT® 320D3 GC

DIG MORE PROFIT

With improved engineering from the bucket to the tracks and anywhere in between, the 320D3 GC gives you dependable performance, low operating costs, and more control to operators. The Cat 320D3 GC is a smart choice for operators 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 on the IntelliSense™ provides more control of fuel consumption.

### LOW MAINTENANCE COSTS

Machine systems with less scheduled service intervals for the hydraulic filter, 5,000 hours of hydraulic oil service, and replace or drain filter.

### SIMPLICITY ADDS TO RELIABILITY

An Ingersoll Rand® 6-cylinder mechanical engine with an Ingersoll Rand® Control Module (ICM) and Ingersoll Rand® 6-cylinder engine enable simpler hydraulics. Compatibility with a standard and optional add-on to the excavator's versatility.

## FEWER FILTERS MEANS LESS MAINTENANCE

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



10 Fewer filters over the machine's lifetime.

3200Z OC

# LOWER YOUR OPERATING COSTS



## FUEL CONSUMPTION AS LOW AS 11 LITERS PER HOUR

Typical fuel consumption for the 3200Z OC in backhoeing applications is between 10 to 13 liters per hour, lower than most machines in the market. Conserve power with a single gear loading system, optimized engine speed, boom and stick regeneration valves, and hydraulic pumps that offer superior performance.

## WORK SMART. SAVE MONEY.

Two power modes help conserve fuel consumption. Power mode delivers maximum productivity in high-demand applications like track loading and tracking. 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 3200Z OC IS THE  
FUEL-EFFICIENT CHOICE  
FOR YOUR BUSINESS.**

## RELIABILITY

# DELIVERING PEACE OF MIND



## SIMPLY RELIABLE

The built-in 100-hour service intervals (SI) components with nitrogen and simplified systems that maximize durability. The construction delivers a high-uptime value and the best return on investment in class.

- + An 8.8 liter common rail delivers longer life.
- + 5 cylinder mechanical engine without electronic Control Module (ECM).
- + A hydraulic that delivers longer life and greater control.
- + Long and life span for simpler hydraulics.

## HEAVY-DUTY BOOM AND REINFORCED STICK BOOST PRODUCTIVITY

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

## VisionLink® GETS MORE FROM YOUR MACHINE

VisionLink provides accurate data insights for all assets – regardless of their size or equipment manufacturer.\* Review equipment data from your desktop or mobile device in real-time across any and every asset. Dashboard provides information such as hours, fuel, location, life time, and fuel tank. Make informed decisions that lower costs, simplify maintenance, and improve safety and security on your jobsite.

\*Available on select equipment configurations.

# SUPERIOR COMFORT AND CONTROL

Even when excavators typically have the rigors and challenges. That's why it's important the new 630LC cab protect the operator as much as possible from the fatigue, stress, noise, and temperatures of the job.



## COMFORTABLE, EASY TO CONTROL

The ergonomically designed cab, seat, and control system is designed for ease of use, whether the operator is frequently leaning forward or reaching to reach controls. Increased control is easy to use, intuitive and user friendly.

## REDUCE FATIGUE

The console, steering, and wheel vibrations dampening seat have several adjustments, allowing you to reduce the posture problems for all day control. Low effort joystick controls reduce operator fatigue even further.

## EXCELLENT VISIBILITY

Large glass area in the cab gives you improved visibility rating and enhanced productivity. Convex profile glass improves cutting corner by reducing blind spots. LED lighting with original illumination allows for better visibility.

## IMPROVED AIRFLOW

The ultra-ventilation air circulation greatly increases 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 operable daylight cover is standard.

## SOUND DAMPING

The cab is designed with noise reduction in mind, allowing you to work in quiet comfort. Vibration-cab mount and multi-layer, noise-dampening, laminated foam mats protect you from machine and work-site 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 for easy read at a glance. Two warning indicators are included, and the display shows fuel usage, coolant temperature, service hours, hydraulic back usage, and camera view when enabled.

## STORAGE AND POWER

Abundant storage space – tool tray, tool tray holder, disc-and-tape 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



#1 CAUSE OF CONSTRUCTION ACCIDENTS: FALLS

40% OF ALL FALLS ON CONSTRUCTION SITES

30% OF ALL FALLS ON CONSTRUCTION SITES



GROUND-LEVEL MAINTENANCE HELPS PREVENT FALLS

FALLS



<http://www.osha-slc.gov/publications/2014-04-01>

### GROUND-LEVEL MAINTENANCE

Falls are the #1 cause of construction workplace accidents, but easy 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 locker as easy and safe as 1-800. The platform is built from stamped and skid-proofing, which will last for the entire life of the machine, and convenient built-in platform steps and latching.

### FRM SHROUD AND LOCKOUT LEVER

The cooling fan is fully enclosed, preventing any accidental machine damage. A hydraulic actuator 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 operators 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 just the clicking of a Cat attachment. Each Cat attachment is designed to fit the weight and horsepower of Cat machines for improved performance, safety, and security.



## BUCKETS



## HYDRAULIC GRAPPLES



## TECHNICAL SPECIFICATIONS

See us online for complete specifications.

ENGINE	
Engine Model	4100A2000
Standard Capacity	16 1/4 GPM
Consumes	See certified emission engine
Max Flow - 301 (20)	27000
Max Flow - 301 (20) 200	27000 (max)
Engine Power - 301 (20) 200	10000
Engine Power - 301 (20) 200	220 hp (max)
Size	140mm 4 1/4
Depth	170mm 6 1/4
Applications	2, 3, 4, 5, 6, 7, 8, 9

- See certified emission engine.
- Recommended for use up to 8000 ft (2438 m) altitude with engine power factor above 200 at 2000 ft.
- Idle fuel power is based on the specified standard method at the base of the altitude.
- Not power referenced in the power available at the altitude where the engine is equipped with fuel, air intake system, exhaust system and alternator.
- Engine speed at 1, 200 rpm.

HYDRAULIC SYSTEM	
Max System Maximum Flow	40 L/min 10.5 gpm
Maximum Pressure - 1 system	21,000 PSI 1,400 psi
Maximum Pressure - 2nd	21,000 PSI 1,400 psi
Maximum Pressure - 3rd	21,000 PSI 1,400 psi

WORKING WEIGHTS	
Empty Weight	1400 lbs
Maximum Working Weight	2700 lbs 1,225 kg

MACHINE WEIGHTS	
Operating Weight	10,000 kg 22,000 lb

SERVICE BOWL CAPACITIES		
Low Tank Capacity	300 L	77.5 gal
Coating System	100 L	26.5 gal
Engine Oil	100 L	26.5 gal
Coating Oil (max)	20 L	5.3 gal
Leaf Oil (max)	10 L	2.6 gal
Hydraulic System (working oil)	100 L	26.5 gal
Hydraulic Tank	100 L	26.5 gal

DIMENSIONS	
Width	800 mm 31.5 in (9 FT)
Depth	800 mm 31.5 in (9 FT)
Height	2200 mm 86.6 in (17 FT)
Digging Depth (up to 4th)	2200 mm 86.6 in
Ground Height	700 mm 27.6 in
Digging Length	620 mm 24.4 in
Net Working Depth	220 mm 8.7 in
Maximum Height (excavator)	670 mm 26.4 in
Ground Clearance	80 mm 3.1 in
Track Length	4000 mm 157.5 in
Length at Level of Rollers	2700 mm 106.3 in
Track Gauge	2000 mm 78.7 in
Excavator Width	2000 mm 78.7 in

WORKING RANGES AND LIMITS	
Width	800 mm 31.5 in (9 FT)
Depth	800 mm 31.5 in (9 FT)
Height	2200 mm 86.6 in (17 FT)
Maximum Digging Depth	2200 mm 86.6 in
Maximum Reach to Ground Level	2000 mm 78.7 in
Maximum Working Height	670 mm 26.4 in
Maximum Loading Height	270 mm 10.6 in
Maximum Loading Length	700 mm 27.6 in
Maximum Digging Capacity (90°)	600 mm 23.6 in
Load Capacity	
Maximum Payload (90° Digging Depth)	220 mm 8.7 in
Maximum Digging Capacity (90°)	1000 mm 39.4 in
Max. Digging Capacity (225°)	1000 mm 39.4 in

## STANDARD & OPTIONAL EQUIPMENT

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

ENGINE/DRIVE AND TRANSMISSION	STANDARD	OPTIONAL
Dynamic Select and Load Hold	•	
Two drive shafts on basic frame	•	
Carrier back-feeding speed	•	
200hp (150kW) constant torque	•	
800mm (31in) high precision shaft (31 and 33 in. shaft)	•	
Augmented back-feeding speed		•
800mm (31in) high precision shaft (31 and 33 in. shaft)		•

LOAD	STANDARD	OPTIONAL
Smart suspension rate with active mode	•	
Hydraulic skidsteer	•	
Hydraulic-actuated front loader workhead	•	
Rear window emergency exit	•	
Removable temporary lower workhead with a cable storage bracket	•	
Daily maintenance mechanical components: seat, controls and console	•	
17 seat (2) seat belt	•	
New programmable loader	•	
Automatic air conditioner with programmed location	•	
Wheel lift charging ports	•	
Workable floor mat	•	
Interior utilities (interior lighting, engine lighting, video output, seat heat, beverage holder, power windowing system, rear storage compartment)	•	
Full stereo and access		•
Control pattern storage		•

WORK	STANDARD	OPTIONAL
Smart engine, All2000™ V8 - mechanical governor - multi-regime (1 to 2.5 L/min) for 1, set certified	•	
New selectable power mode: Standard, 1.5	•	
New 40-hp low idle with auto engine speed control (SEC)	•	
New stage 3a filtration system with water separator and monitor	•	
400mm (15.75in) ultimate capacity	•	
37°C (99°F) high ambient cooling capacity with ultimate shaft (37°C (99°F))	•	
-40°C (-40°F) fuel tank capacity	•	
50-hp alternative	•	
Rated load on lift with remote lift control	•	
Mechanical fuel priming pump	•	
-30°C (-20°F) cold start capability		•
60-gal. capacity		•
Hot flow meter		•
Rated capacity (up to 170)		•

WORK TOOL/IMPLEMENT	STANDARD	OPTIONAL
1.7 m (5'7") lift reach boom	•	
1.1 m (3'7") reach stick	•	
Bucket linkage, 87 loads without lifting eye	•	
1.2 m (3'7") reach stick		•

ELECTRICAL SYSTEM	STANDARD	OPTIONAL
New 100CCA maintenance free battery	•	
Control of electrical equipment status	•	
20 circuits programmable low battery warning lights (11), storage fan (2) mounted (one), LED mounted (two), laser mounted (all head (1)) (one)		•

WHEELS AND WHEELS/DRUMS	STANDARD	OPTIONAL
Degree of, hot, and hydraulic oil filter (grouped for ease of maintenance)	•	
Subtotal (2) Gangway (2) (2) parts	•	
Subtotal (2) for substation control in present plugging by filter	•	

HYDRAULIC SYSTEM	STANDARD	OPTIONAL
Hydraulic boom and stick regeneration circuit	•	
Booms and sticks with collection valve	•	
High performance hydraulic return filter (replaces filter type)	•	
Auto flow speed boost		•

TELEPHONE	STANDARD	OPTIONAL
Bluetooth®	•	

SAFETY AND SECURITY	STANDARD	OPTIONAL
Reverser warning, horned, mounted (one), LED headlight mounted (one)	•	
Full flow return, pattern with air and plate	•	
Shovel lower back-feeding of control	•	
Smart lift on controls engine speed (one in total)	•	
Display/learning from	•	
Right hand hand-off and hand hold	•	

Not all features are available in all regions. Please check with your local Case dealer for specific offering availability in your area. For additional information, refer to the Technical Specifications section for the 2020 model available at [www.case.com](http://www.case.com) or your Case dealer.

For more complete information on Caterpillar, dealer networks, and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com).

Models and specifications are subject to change without notice. Always consult the product literature and local regulations. The price is shown for available options.

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