

M320

WHEEL EXCAVATOR



Engine Power – ISO 14396
Operating Weight Maximum
Maximum Travel Speed

129 kW (174 hp)
21 500 kg (47,400 lb)
35 km/h (22 mile/h)



M320

WHEEL EXCAVATOR

The Cat® M320 wheel excavator offers stability, efficiency, and ease of use for construction, utility work, and road maintenance jobs. With a long wheelbase, auto axle lock, and joystick controls, it is fuel-efficient, helps reduce operator fatigue, and lower costs.



EASE OF USE

Designed for smooth, controlled operation with a long wheelbase undercarriage and intuitive controls for efficient use.

HIGH PERFORMANCE

Optimal productivity with up to 17% more stability for safe and confident handling of heavy loads.¹

¹Compared to M320 (04B). Estimated stability improvement based on lift chart data.

LOW MAINTENANCE COSTS

Up to 17% lower maintenance costs and enhanced fuel efficiency to help improve productivity and reduce operating expenses.²

²Maintenance costs based on comparison of M320 (04B) and M320 (05D) recommended maintenance interval schedule and recommended component rebuild schedule.

DO MORE WITH LESS FUEL



- The Cat C4.4 engine meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- The M320 is fuel efficient to help keep you moving and productive on the jobsite.
- Easily travel between sites with travel speeds up to 35 km/h (22 mph).
- Automatic Engine Speed Control helps reduce fuel consumption as it lowers engine speed when no operation is performed.
- The advanced hydraulic system provides the optimum balance of power and efficiency while providing the control needed for precise digging requirements.
- Auxiliary hydraulic options give you the versatility to use a wide range of Cat attachments.
- Don't let the temperature stop you from working. The wheel excavator has a standard high-ambient temperature capability of 52°C (125°F) and cold start capability of – 18°C (0°F).

Not all features are available in all regions. Please check with your Cat dealer for specific offering availability in your area. Build Number: 05D

LOW MAINTENANCE COSTS



- Up to 17% lower maintenance costs to help reduce downtime, while maximizing productivity and profitability.³
- Quickly check and service your machine with daily maintenance points accessible from ground level.
- The hydraulic oil filter helps provide high filtration performance, anti-drain valves to help keep oil clean when the filter is replaced, and long life with a 2,000-hour replacement interval.
- Long greasing intervals and grouped grease points mean less downtime and more work getting done.
- Scheduled Oil Sampling (S-O-SSM) ports are located at ground level, helping simplify maintenance, and allowing for quick, easy extraction of fluid samples for analysis.
- Built on a long legacy of high performance and highly reliable wheel excavators, our machine components are designed and manufactured to Caterpillar quality standards.
- Parts commonality with the 320 excavator to help simplify maintenance and reduce downtime.
- Attachments commonality with the 320 excavator to help enhance efficiency and provide convenience with interchangeable tools.

³Maintenance costs based on comparison of M320 (04B) and M320 (05D) recommended maintenance interval schedule and recommended component rebuild schedule.

WORK IN COMFORT



- Ergonomically designed cab with controls kept to a minimum, conveniently located and easy to operate.
- Rollover Protective Structure (ROPS) cab structure and Operator Protective Guards (OPG) (top and front guards) are available.
- Get in and out of the cab easily using the tilt-up left console and straight access from the ground.
- Conveniently located storage for lunch box, documents, and mobile phones helping to keep the operator comfortable during the work day.
- Optional Bluetooth® radio allows for seamless mobile phone connection to listen to music and podcasts and for hands-free calling.
- Air conditioning controls are located on the machine display and can easily be adjusted to your ideal temperature with the touchscreen monitor.

SIMPLE TO OPERATE

- Start up the machine easily with the push-to-start button.
- Operate the wheel excavator comfortably with easy-to-reach and intuitive controls.
- Two-way travel pedal is convenient and helps maximize productivity.
- The machine has a long wheelbase undercarriage for stability and comfort to help provide smooth and controlled operation.
- Up to 17% greater stability helps provide greater control and safety, allowing operators to move heavy loads more efficiently and confidently.⁴
- To help reduce operator fatigue, the auto-axle lock will activate automatically when the travel pedal is in neutral and the machine speed is near zero.
- Cat continues to improve user interface functionality for operators of all skill levels. The touchscreen monitor is an easy-to-use operating tool that presents the jobsite dashboard with an intuitive format. Productivity applications are displayed in grid-view to read on-the-go, and touchscreen navigation is programmed to make sure job performance continues without any hold ups.



⁴Compared to M320 (04B). Estimated stability improvement based on lift chart data.

SAFETY FEATURES

- Easy and safe access to daily service points.
- Standard LED lights give you a better view of your jobsite.
- Enjoy great all-around visibility with the help of small cab pillars, large windows, and a flat engine hood design. Rear and right-side-view cameras are standard.
- The service platform design provides easy, safe, and quick access to upper service platform; the service platform steps use anti-skid punch plate to prevent slipping.
- Grease points are grouped conveniently for quick and easy prevention lubrication.
- Use your PIN code on the monitor to enable the push button starting feature.
- The in-cab swing lock prevents front linkage from moving as you travel.
- Ground-level shutoff switch stops all fuel to the engine when activated and shuts down the machine.
- Dedicated tie down points for safe truck transport.



SUSTAINABILITY



- The Cat C4.4 engine meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels** up to: 100% 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.
- Extended maintenance intervals not only reduce downtime but decrease the amount of fluid and filters that are replaced over the life of the machine.
- Auto Engine Speed Control reduces fuel burn and greenhouse gas emissions by allowing the engine to automatically go into idle mode when the machine is not working.
- Cat Scheduled Oil Sampling (S·O·SSM) Services helps reveal excessive wear, contaminated fluids or other “unseen” issues that can shorten component life. In many cases, you can extend oil and coolant change intervals by using fluid monitoring. Consult your Cat dealer or the machine's operation and maintenance manual for more information.

**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.*

MORE THAN MACHINES

BUILT AROUND YOUR SUCCESS

When you buy Cat equipment, you get so much more than the machine. You also get the support of a best-in-class dealer network, backed by a range of flexible solutions, technology, tools, and more.



CUSTOMER VALUE AGREEMENTS

A Customer Value Agreement (CVA) from your Cat dealer helps you do more and worry less. A CVA simplifies machine ownership and maintenance, adds the security of expert dealer support, and gives you the peace of mind from effective equipment health management.

GENUINE CAT PARTS

Genuine Cat parts deliver the highest level of reliability and productivity. Order direct from your Cat dealer or shop online at parts.cat.com.

REPAIR OPTIONS

A broad range of repair options gives you choices that work with your needs, budget, and timeline. Every repair is performed by expert Cat technicians. You'll receive smart repair advice, a timely, accurate quote, and service that gets your machine back into action quickly.

FINANCIAL SERVICES

Count on Cat Financial to provide the best finance and extended protection solutions for your business. For more than 30 years, we have helped our customers succeed through financial service excellence.



DOZERS



WHEELED EXCAVATORS



MATERIAL HANDLERS



EXCAVATORS



WHEEL LOADERS



TRACK LOADERS

INCREASE PRODUCTIVITY AND VERSATILITY WITH CAT ATTACHMENTS

You can easily expand the performance of your machine by utilizing any of the variety of Cat attachments. Each Cat attachment is designed to fit the weight and horsepower of Cat wheeled excavators for improved performance, safety, and stability.

BUCKETS



GRAPPLES



HYDRAULIC HAMMERS



VIBRATORY PLATE COMPACTORS



PIN GRABBER COUPLER



ORANGE PEEL GRAPPLES



SHEARS



PULVERIZERS



ROTARY CUTTERS



TECHNICAL SPECIFICATIONS

Engine		
Engine Model	Cat® C4.4	
Engine Power – ISO 14396	129 kW	174 hp
Engine Power – ISO 14396 (DIN)	176 hp (metric)	
Net Power – ISO 9249	128 kW	171 hp
Net Power – ISO 9249 (DIN)	174 hp (metric)	
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.4 L	269 in³
Biodiesel Capability	Up to B20¹	
Emissions	Meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.	

Net power advertised is the power available at the flywheel when engine is equipped with fan, air cleaner, Clean Emission Module (CEM) exhaust gas aftertreatment, alternator, and cooling fan running at intermediate speed. Rated speed 2,000 rpm. Advertised power is tested per the specified standard in effect at the time of manufacture.

¹Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels** up to: 100% 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.

*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.

Drive		
Maximum Travel Speed	35 km/h	22 mile/h

Hydraulic System		
Main System – Maximum Flow – Implement	429 L/min	113 gpm
Maximum Pressure – Implement Circuit – Normal	35 000 kPa	5,080 psi
Maximum Pressure – Implement Circuit – Heavy Lift	37 000 kPa	5,370 psi
Maximum Pressure – Implement Circuit – Travel Circuit	35 000 kPa	5,080 psi

Swing Mechanism		
Maximum Swing Speed	11 r/min	
Maximum Swing Torque	62 kN·m	45,700 lbf·ft

Machine Weight		
Operating Weight Maximum	21 500 kg	47,400 lb
Operating Weight Minimum	20 000 kg	44,100 lb

Operating weight includes full fuel tank, operator, General Duty (GD) bucket and dual pneumatic tires. Weight varies depending on configuration. Typical configurations include 2.92 m (9'7") stick and 4000 kg (8,800 lb) counterweight.

Service Refill Capacities		
Fuel Tank	338 L	89.3 gal
Cooling System	29 L	7.7 gal
Hydraulic Tank	151 L	39.9 gal
Hydraulic System – Including Tank	270 L	71.3 gal

Dimensions		
Boom	One-Piece Boom 5.7 m (18'7")	
Stick	2.92 m (9'7")	
Bucket	General Duty (GD) 1.19 m³ (1.56 yd³)	
Shipping Height – Top of Cab	3355 mm	11 ft
Shipping Length	9600 mm	31.5 ft
Support Point	2860 mm	9.4 ft
Tail Swing Radius	2817 mm	9.2 ft
Counterweight Clearance	1316 mm	4.3 ft
Ground Clearance	325 mm	1.1 ft
Undercarriage Length	5160 mm	16.9 ft
Wheel Base	2800 mm	9.2 ft

Working Ranges and Forces		
Boom	One-Piece Boom 5.7 m (18'7")	
Stick	2.92 m (9'7")	
Bucket	General Duty (GD) 1.19 m³ (1.56 yd³)	
Digging Height	9740 mm	32 ft
Dump Height	6780 mm	22.2 ft
Maximum Digging Depth	6430 mm	21.1 ft
Maximum Vertical Wall Digging Depth	5413 mm	17.8 ft
Maximum Reach at Ground Line	9880 mm	32.4 ft
Stick Forces (ISO)	102 kN	22,931 lbf
Bucket Forces (ISO)	120 kN	26,977 lbf

All Dimensions are approximate. Values are with 10.00-20 Dual Pneumatic Tires.

Air Conditioning System		
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The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1 kg (2.2 lb) of refrigerant, which has a CO₂ equivalent of 1.216 metric tonnes (1.340 tons).

STANDARD & OPTIONAL EQUIPMENT

Note: Standard and Optional Equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
TECHNOLOGY		
VisionLink™	✓	
CAB		
Sound-suppressed ROPS cab	✓	
Keyless push-to-start engine control	✓	
High-resolution 203 mm (8") LCD touchscreen monitor		✓
High-resolution 254 mm (10") LCD touchscreen monitor		✓
SAFETY AND SECURITY		
Rearview camera	✓	
Signal/warning horn	✓	
Neutral lever (lock out) for all controls	✓	
Ground-level accessible secondary engine shutoff switch in cab	✓	
Anti-skid plate and countersunk bolts on service platform	✓	
Rear and right-side-view cameras with LED lights		✓
Travel alarm		✓
Rotating beacon on cab		✓
Operator Protective Guards (OPG)		✓
BOOM, STICKS AND LINKAGES		
5.7 m (18'7") One-Piece boom	✓	
2.7 m (8'10") stick		✓
2.92 m (9'7") stick		✓
SERVICE AND MAINTENANCE		
Scheduled Oil Sampling (S·O·S SM) ports	✓	
HYDRAULIC SYSTEM		
Boom and stick drift reduction valves	✓	
Boom and stick regeneration circuits	✓	
Electronic main control valve	✓	
Element type main hydraulic filter	✓	
Automatic swing brake	✓	
Adjustable hydraulic aggressiveness	✓	
Auto heavy lift	✓	
Tool control (two pump, one/two way high-pressure flow)		✓
Basic tool control (one pump, one way high-pressure flow)		✓
Quick coupler circuit for Cat Pin Grabber and CW-type coupler		✓
Boom/stick lowering check valves		✓

	Standard	Optional
ELECTRICAL SYSTEM		
LED lights on boom and cab	✓	
Roading and indicator lights, front and rear	✓	
One-slider joysticks	✓	
Maintenance free batteries	✓	
Centralized electrical disconnect switch	✓	
Electrical refueling pump		✓
UNDERCARRIAGE AND STRUCTURES		
All wheel drive	✓	
Automatic brake/axle lock	✓	
Creeper speed	✓	
Electronic swing and travel lock	✓	
Heavy-duty axles, advanced disc brake system and travel motor, adjustable braking force	✓	
Oscillating front axle, lockable, with remote greasing point	✓	
Tires, 10.00-20 16 PR, dual pneumatic tires	✓	
Two-piece drive shaft	✓	
Two speed hydrostatic transmission	✓	
Counterweight 4000 kg (8,800 lb)	✓	
Transmission shaft guard		✓
ENGINE		
Cat® C4.4 double turbo diesel engine	✓	
Power mode selector	✓	
One-touch low idle with automatic engine speed control	✓	
Automatic idle shutdown	✓	
Work up to 3000 m (9,842 ft) above sea level without engine power de-rating	✓	
52°C (125°F) high-ambient cooling capacity	✓	
Sealed double element air filter with integrated pre-cleaner	✓	
Electric fuel priming pump	✓	
Cold starting capability –18°C (0°F)	✓	
Cold starting capability –25°C (–13°F)		✓

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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